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1920

ERRATA.

1,345,728, page 79, in heading, assignment, name of the assignee, for "Wright Underwear Company, Inc., read *Wright's Underwear Company, Inc.*

Classification of Patents, July 20, 1920, page xxxiii, fifth column, line 78, strike out subclass and number "12: 1,347,286;" page xxxiv, fourth column, after line 26 insert subclass and number *66: 1,347,286.*

Classification of Patents, July 27, 1920, page xxxiv, fourth column, line 15, strike out subclass and number "66: 1,347,286."

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E.R.

Patents Nos. 1,345,337 to 1,346,100.

THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 276—No. 1. TUESDAY, JULY 6, 1920. Price—$5 per year.

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Designs	153—No.	55,582 to No.	55,734, inclusive.
Trade-Marks	225—No.	132,872 to No.	133,096, inclusive.
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Total	1150		

Adverse Decisions in Interference.

PATENT No. 1,079,679.

Pursuant to a mandate of the Supreme Court of the United States, the Court of Appeals of the District of Columbia on May 1, 1920, rendered a decision that John A. Wintroath was not the first inventor of the subject-matter covered by claims 2, 3, and 4 of his Patent No. 1,079,679.

PATENT No. 1,097,589.

On May 28, 1920, a decision was rendered that Albert F. Jones was not the first inventor of the subject-matter covered by claims 5, 6, 7, 8, and 9 of his Patent No. 1,097,589, subject, "Counter-forming machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,184,741.

On April 27, 1920, a decision was rendered that Charles L. Goodrum was not the first inventor of the subject-matter covered by claims 1, 4, 7, and 8 of his Patent No. 1,184,741, subject, "Telephone-exchange systems," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,224,698.

On June 4, 1920, a decision was rendered that Lothar R. Zifferer was not the first inventor of the subject-matter covered by claims 8 and 9 of his Patent No. 1,224,698, subject, "Expansion device," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,260,034.

On June 20, 1920, a decision was rendered that Angelo Perri was not the first inventor of the subject-matter covered by claim 49 of his Patent No. 1,260,034, subject, "Lasting-machine," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,267,367.

On June 5, 1920, a decision was rendered that John H. A. Bousfield was not the first inventor of the subject-matter covered by claims 3 and 8 of his Patent No. 1,267,367, subject, "Dial-scale," and no appeal having been taken within the time allowed such decision has become final.

NOTICE.

PAYMENT OF PATENT FEES—ACT OF MARCH 6, 1920.

Department of the Interior,
United States Patent Office,
Washington, D. C., June 25, 1920.

This Office has been advised by the Assistant Secretary of the Treasury that a circular letter is being forwarded to the Treasurer and Assistant Treasurers of the United States, Federal Reserve Banks, and National Bank depositaries calling attention to the act of Congress approved March 6, 1920, which requires that patent fees be paid directly to the Commissioner of Patents. (See 272 O. G., 379.)

J. T. NEWTON,
Commissioner.

2181

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business June 26, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Mar. 1	472
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Nov. 1	Feb. 1	973
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Jan. 5	686
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Oct. 29	Apr. 15	1,378
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Mar. 31	Apr. 12	350
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 19	Apr. 28	505
312	7. Games and Toys; Optics; Photography; Velocipedes	Mar. 1	Apr. 7	857
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 23	May 29	381
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Feb. 4	Jan. 23	543
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Jan. 14	Apr. 7	949
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Feb. 17	Mar. 11	760
222	12. Machine Elements	Nov. 8	Apr. 16	1,166
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 1	Apr. 23	1,176
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 5	Mar. 3	649
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation: Plastic Block and Earthenware Apparatus; Plastics.	Oct. 22	Apr. 1	1,097
111	16. Radiant Energy; Telegraphy; Telephony	Oct. 31	Dec. 11	868
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Apr. 20	May 6	235
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 15	Jan. 20	998
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems: Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 13	Jan. 10	576
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Mar. 17	Apr. 7	708
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 19	May 14	426
219	22. Aeronautics; Firearms; Ordnance	Apr. 2	Apr. 21	257
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 22	Apr. 12	668
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 5	Apr. 22	623
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	May 3	May 15	210
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Nov. 3	Nov. 20	728
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Feb. 19	Apr. 2	613
225	28. Internal-Combustion Engines	Feb. 2	Apr. 15	586
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Nov. 12	Apr. 28	683
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 8	May 20	1,034
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 18	Jan. 12	1,097
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Oct. 10	Mar. 26	1,211
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Feb. 2	Apr. 3	509
301	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	May 24	June 9	158
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	May 17	June 1	525
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Feb. 9	Mar. 3	1,148
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Feb. 17	Feb. 4	1,249
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Jan. 29	Apr. 22	657
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 15	Nov. 14	1,090
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 29	Feb. 25	829
125	41. Resilient Tires and Wheels	Nov. 3	Mar. 10	837
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling.	Jan. 6	Jan. 27	1,109
332	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Dec. 8	Mar. 5	803
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Feb. 20	Apr. 13	298
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Jan. 8	Mar. 6	819
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Nov. 24	Jan. 19	807

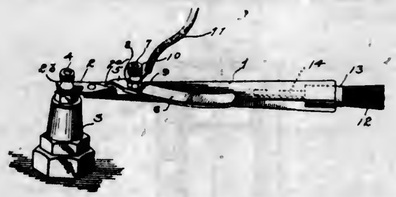
Oldest new case, Oct. 10. oldest amended, Nov. 14.
Total number of applications awaiting action 34,355

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Feb. 13	May 6	2,510
	Designs	Feb. 2	Mar. 18	844
	Labels and Prints	Feb. 2	Feb. 2	1,082

PATENTS

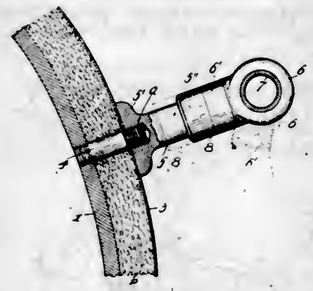
GRANTED JULY 6, 1920.

1,345,337. TOOL FOR TESTING SPARK-PLUGS. GEORGE H. AINGE, Springfield, Ohio. Filed Apr. 15, 1918. Serial No. 228,516. 2 Claims. (Cl. 175—183.)



1. In a device of the character described, a handle of insulating material, an electric switch located thereon consisting of a stationary member and a movable member, said stationary member having a bifurcated portion to receive the binding post of a spark plug and a contact point, said movable member having a pivoted connection with said handle so as to be laterally swingable relatively thereto, said movable member also having a contact point to coöperate with the contact point of said stationary member, and a binding post associated with said movable member to receive the spark plug conductor wire, said handle being extended beyond said switch members and binding post a sufficient distance to permit the same to be conveniently grasped by the hand of the operator and said movable switch member being projected in the general direction of said handle extension to allow for its ready manipulation.

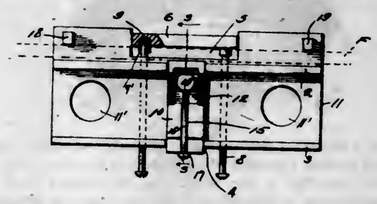
1,345,338. HANDRAIL-COLUMN. CLOICE B. BAKER, St. Louis, Mo., assignor of one-half to William Bawden, St. Louis, Mo. Filed Apr. 8, 1920. Serial No. 372,258. 7 Claims. (Cl. 105—457.)



5. A hand rail column comprising two sections having adjacent ends in abutting relation, and a peripheral coupling member spanning the joint between the sections.

1,345,339. SAW-GAGE. NEWTON ALLEN, Lyons, Oreg. Filed Jan. 3, 1919. Serial No. 269,394. 1 Claim. (Cl. 33—202.)

In a device of the character described, the combination of a body having an elongated opening extending therein from its upper edge, a block extending longitudinally of said opening, screws threaded through the body and extending into said opening, whereby the screws will not be exposed upon either side of the body and will thus be protected from injury, said screws having heads upon their upper ends, sleeves surrounding the screws contiguous to said heads and being carried by said block,



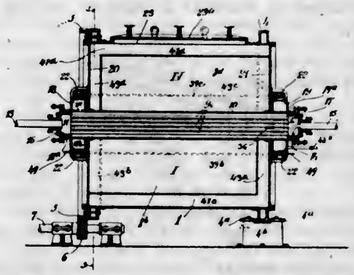
whereby as the screws are rotated, said block may be moved within said opening as desired.

1,345,340. CURTAIN-ROD AND SHADE-ROLLER SUPPORT. GILBERT E. ALPHIN, Norwood, N. C. Filed Nov. 4, 1919. Serial No. 335,621. 14 Claims. (Cl. 156—23.)



14. A curtain-rod-bracket formed of a springy sheet-metal blank and comprising two spaced arms and an attaching plate, the latter being centrally slotted for attachment to a headed fastener, the attaching plate being concavo-convexed and having its convex surface facing toward the space between the distant ends of said arms so that the plate exerts a spring-pressure against the head of said headed fastener and against a door or window which holds said fastener, each of said arms being provided with a plurality of shade-roller-bearings of different sizes and located different distances from said attaching plate, each of said arms also being formed with curtain-pole seats of different sizes.

1,345,341. METHOD OF AND APPARATUS FOR TREATING GOODS WITH FLUIDS. HANNS R. ANDERS, Perth Amboy, N. J., assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y., a Corporation of New York. Filed Dec. 1, 1916. Serial No. 134,481. 10 Claims. (Cl. 8—18.)



1. The method of treating goods with fluids, consisting in packing the goods in separate compartments within a

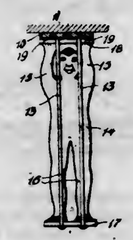
rotary vessel, introducing the fluid into one compartment and thence circulating it to another compartment and causing it to percolate through the goods in the several compartments.

1,345,342. STRAINER. WALTER W. BEALL, Philadelphia, Pa. Filed Mar. 13, 1920. Serial No. 365,437. 2 Claims. (Cl. 53—7.)



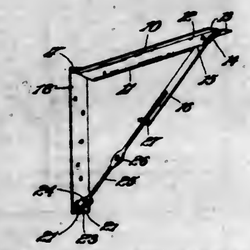
1. In a device of the character stated, a strainer, having a raised bottom provided with an outer annular solid ring and an inner disk of fine mesh, and an annular solid wall projecting from said solid bottom ring and terminating in an annular upper mesh wall.

1,345,343. TOY. GILBERT G. BEITHON, Bismarck, N. D. Filed July 28, 1919. Serial No. 313,682. 2 Claims. (Cl. 46—40.)



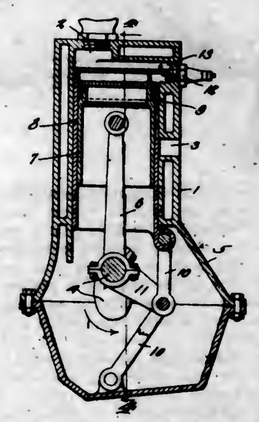
1. A toy of the character described comprising a supporting block adapted to be secured in horizontal position, a slidable member associated with said block and having a projection extending below the bottom face thereof, a figure associated with said block, pairs of flexible members connected at one end to said block and at their other ends to the ends of said figure whereby said figure may be suspended successively from the different ends of said block, a flexible member connected with said sliding member and said figure whereby said sliding member will be simultaneously moved with the movement of said figure, a projection on said sliding member serving as a fulcrum when engaged by said figure upon movement thereof into substantially horizontal position, and means for moving said figure.

1,345,344. ADJUSTABLE BRACKET. GEORGE G. BLANDFORD, Herring Neck, Newfoundland. Filed June 17, 1919. Serial No. 304,970. 2 Claims. (Cl. 248—19.)



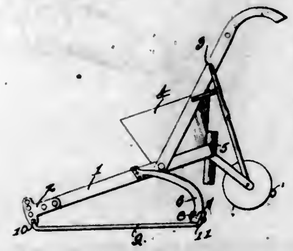
1. An adjustable bracket, comprising a vertical member having an eye at its upper end, a horizontal member consisting of a single piece of metal doubled along its longitudinal medial line, with its marginal portions constituting laterally extending wings, the wings at one end being bent with resultant eyes between which the first named eye is pivotally engaged, the horizontal member at its end opposite to the eyes being longitudinally slotted on its medial line, and an adjustable brace disposed through said slot and pivoted to the doubled portions of the metal, and having its other end pivotally connected with the lower end portion of the vertical member.

1,345,345. GAS-ENGINE. WYATT BOYD, Dayton, Ohio. Filed Jan. 4, 1919. Serial No. 269,643. 1 Claim. (Cl. 123—50.)



In a two cycle engine the combination with a cylinder having an end inlet and a side exhaust, of an outer hollow piston having side openings movable into communication with the exhaust port, an inner piston within and movable relative to the outer piston, a crank, a toggle anchored at one end and connected to the outer piston at its other end, a link connection between the crank and the toggle, and a pitman connection between the crank and the inner piston.

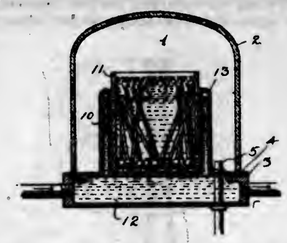
1,345,346. FURROW-CLEANER. JOHN H. BUFORD, New Hope, Ala. Filed May 6, 1919. Serial No. 295,200. 1 Claim. (Cl. 97—1.)



A furrow cleaner for material distributers comprising a frame having a depending standard, a tapered inclined bar adapted to ride through the furrow, a hook on the front end of said bar for attachment with the frame, and an upwardly extending portion on the opposite end of the bar for attachment with said standard.

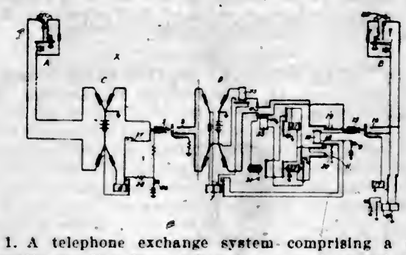
1,345,347. METHOD OF FILLING THERMOMETER-TUBES AND THE LIKE. LEE F. CHANEY, Springfield, Ohio. Filed Dec. 20, 1918. Serial No. 267,704. 1 Claim. (Cl. 226—21.)

The method of filling thermometer tubes and like receptacles, consisting of creating an area of low pressure within the receptacle, heating the filling liquid, and then creating an area of greater pressure than that within the



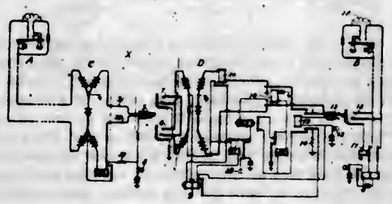
tube outside thereof, and interposing a body of filling fluid between said high and low pressure areas, substantially as specified.

1,345,348. TELEPHONE-EXCHANGE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 25, 1917. Serial No. 176,808. 10 Claims. (Cl. 179—46.)



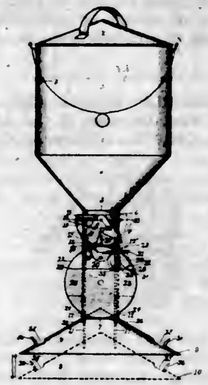
1. A telephone exchange system comprising a trunk circuit extending from a first to a second switchboard, a link circuit at the first switchboard connected with the trunk circuit, a source of ringing current, a telephone line, apparatus responsive to the connection of the trunk circuit with the telephone line for preventing the connection of the source of ringing current to the telephone line, a switch at the first switchboard, means responsive to the actuation of the switch to connect the source of ringing current to the line, and a relay energized upon the closure of the telephone line to disconnect the ringing current therefrom.

1,345,349. TELEPHONE-EXCHANGE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 25, 1917. Serial No. 176,809. 4 Claims. (Cl. 179—46.)



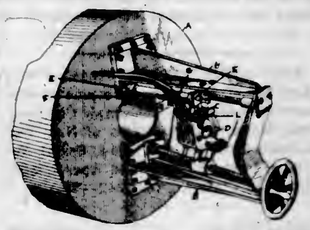
1. A telephone exchange system comprising a trunk circuit extending from a first to a second switchboard, a link circuit at the first switchboard, a trunk relay energized upon the connection of the link circuit with the trunk circuit, a telephone line terminating at the second switchboard, a local relay, an energizing circuit therefor including a contact of the trunk relay completed upon the connection of the trunk circuit with the telephone line, an operator-controlled switch at the first switchboard, a control relay responsive to the actuation of the switch, and a source of ringing current connected with the telephone line through contacts of the local and the control relay.

1,345,350. AUTOMATIC MATERIAL-DISPENSING DEVICE. DOUGLAS DUVAL CORNING, Lynn, Mass. Filed June 21, 1916. Serial No. 105,054. 5 Claims. (Cl. 119—56.)



1. In combination with a receptacle having a discharge opening, a valve controlling said opening, a rod slidably mounted relative to said receptacle and carrying said valve, a pivoted plate adapted to be releasably engaged with said slidable rod, and a support pivoted below said plate and having a supporting and a non-supporting relation thereto.

1,345,351. JOURNALED CABLE-CLAMP. EDWIN L. CROSBY and OLIVER J. MARSHICK, Detroit, Mich. Filed Oct. 31, 1919. Serial No. 334,719. 6 Claims. (Cl. 204—64.)

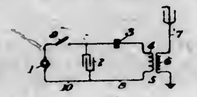


2. In combination with the electrode frame of a rotatable refractory furnace, an apertured roller member journaled therein substantially parallel to the axis of rotation thereof, and a plurality of cables leading from an external point through the apertures in said roller member to connection with said electrode frame, being so positioned by their engagement with said roller that the strain on their several points of connection due to the rotative movement of said frame is rendered negligible.

1,345,352. WIRELESS TELEGRAPHY. FULTON CUTTING, Tuxedo Park, N. Y., and BOWDEN WASHINGTON, Cambridge, Mass. Filed Dec. 4, 1916. Serial No. 134,812. 17 Claims. (Cl. 250—37.)

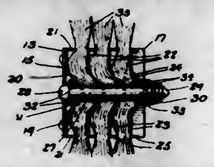
1. Apparatus for producing electrical oscillations having an audible group frequency, comprising, an oscillation circuit, and means for producing oscillations therein comprising a discharge circuit coupled with the oscillation circuit and including a condenser and a discharge gap, and means for supplying a pulsating feed current to

the condenser, the capacity of the condenser and the break-down voltage of the gap being so proportioned that a sufficient number of condenser discharges occur for



each pulsation of the feed current to produce a radiated power wave having an envelop of substantially the same shape as that of the feed current pulsation, substantially as described.

1,345,353. REVERSIBLE BROOM AND THE LIKE. PAUL DEVARCO, West Hoboken, N. J. Filed May 10, 1919. Serial No. 296,070. 4 Claims. (Cl. 15—19.)

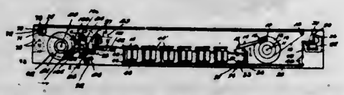


1. A device of the class described comprising a yoke-shaped frame provided centrally of the cross head thereof with a handle member, a clamp head detachably connected with the free end portions of said frame and comprising side members connected by a plate member, the free ends of said yoke-shaped frame being adapted to pass through and detachably secured to said side members, other plate members mounted between the side members of the clamp head, and bolts passed through all of said plate members and adapted to secure brush or similar material between said plate members.

1,345,354. LACQUER ENAMEL. WILLIAM F. DOERFLINGER, Arrochar, N. Y. Filed Feb. 6, 1919. Serial No. 275,328. 7 Claims. (Cl. 134—79.)

6. An enamel lacquer containing sufficient suspended tannic oxid to render the dry film formed on evaporation of a layer of the lacquer enamel opaque to actinic light.

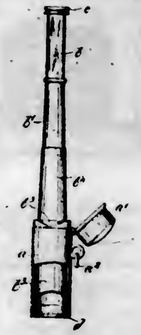
1,345,355. SIGNAL-RECORDER. HERMAN W. DOUGHTY, Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company, Newton Upper Falls, Mass., a Corporation of New York. Original application filed Nov. 30, 1914, Serial No. 874,732. Divided and this application filed Apr. 3, 1917. Serial No. 159,407. 18 Claims. (Cl. 242—55.)



7. In a strip winder for a signal recorder adapted for intermittent operation, the combination of a record tape, a pay-out reel and a take-up reel for said tape, and means for winding a predetermined length of tape on said take-up reel at each operation of the recorder comprising power-actuated driving mechanism for said take-up reel, starting and stopping means for said driving mechanism, and governing means for said starting and stopping means governed by variation in diameter of the tape-roll on the take-up reel.

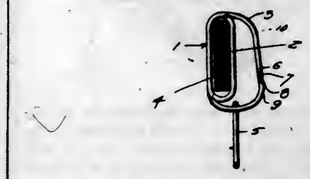
1,345,356. RECEPTACLE FOR CIGAR OR CIGARETTE HOLDERS. ALFRED DUNHILL, London, England. Filed June 10, 1919. Serial No. 303,082. 3 Claims. (Cl. 206—37.)

3. The combination with a holder and container therefor, in which the holder comprises a plurality of tapering sections adapted to telescope with respect to one another so that the device can be collapsed within the container with the smallest section coming within the next larger section, and having an enlarged portion thereon projecting above the container, and means within the container



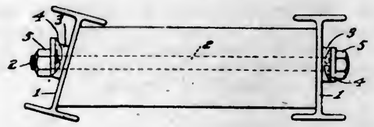
for engaging the largest section only of the holder and causing the holder to be simultaneously drawn into extended position as the enlarged portion thereof is grasped and withdrawn from the container, substantially as described.

1,345,357. KEY-RING CLIP. WILLIAM EVANS, Uvalde, Tex. Filed Oct. 15, 1919. Serial No. 330,693. 3 Claims. (Cl. 24—3.)



1. A key ring clip comprising a loop member adapted to receive a belt, a second loop member formed integrally with the first loop member and having its ends overlapped to receive a key ring.

1,345,358. CLAMPING DEVICE. SILAS STILLMAN FULLER, Lewiston, Me. Filed June 2, 1919. Serial No. 301,283. 6 Claims. (Cl. 189—36.)

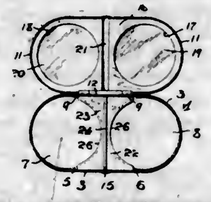


1. A clamp for rigidly connecting spaced structural elements, comprising a tie extending between said elements, a relatively stationary abutment member applied to said tie in abutting relation to the outer face of one of said spaced elements and having an outwardly disposed surface of concavity, and a clamping member applied to said tie beyond said abutment member and having a surface of convexity opposing said surface of concavity and automatically self-adjustable thereon to provide a clamping range effective to permit the spaced elements to be rigidly connected without bending or straining the tie.

1,345,359. CONTAINER. FREDERICK GOERTZ, Newark, and RUSSELL WHITCOMB, Elizabeth, N. J., assignors to August Goertz and Company, a Corporation of New Jersey. Filed June 6, 1919. Serial No. 302,205. 4 Claims. (Cl. 220—22.)

1. A powder-box comprising a main box or case having side-walls and a dividing wall-member arranged to provide

a plurality of compact-receiving compartments, and a retaining member within said box or case comprising oppositely extending side-flanges and a centrally disposed and channeled supporting member adapted to be mounted upon



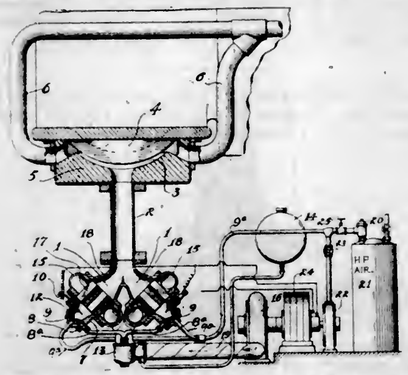
the upper edge of said wall-member, combined with a lid or cover for said box or case, said lid or cover being provided with a channel with which the said supporting member is adapted to be brought into registration when said lid or cover is closed.

1,345,360. CONTAINER. FREDERICK GOERTZ, Newark, and RUSSELL WHITCOMB, Elizabeth, N. J. Filed Feb. 12, 1920. Serial No. 358,093. 6 Claims. (Cl. 132—32.)



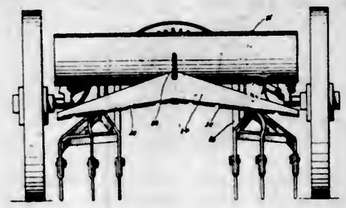
1. A box having a lid for closing the same, partition means within said box to divide the same into a plurality of compact-receiving compartments, and said partition means having arranged therewith a resilient sealing strip adapted to engage and co-act with the inner side of said lid to seal said compartments one from the other when said lid is closed.

1,345,361. HEATING APPARATUS. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 8, 1916. Serial No. 77,109. 19 Claims. (Cl. 158—28.)



1. Inclosed liquid fuel combustion apparatus comprising a flame passage entirely closed to atmosphere at its fuel receiving end and at such end provided with a plurality of closed forced draft burners each comprising a fuel and air mixing space, a connection to each said space for admitting air under pressure in distributed relation to a fuel spray in said space, means for spraying liquid fuel into each of said spaces, one of said burners containing an electric igniter disposed in a part of the fuel spray therein which is relatively undiluted with air, in combination with a single source of air pressure for said air connections and means for simultaneously supplying air therethrough to all said mixing spaces and coincidently actuating said spray means and igniter.

1,345,362. SEEDER. BERNHARD F. C. GUELDENHAAR, Flanagan, Ill. Filed July 11, 1919. Serial No. 310,152. 3 Claims. (Cl. 275—2.)



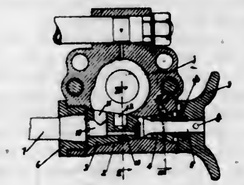
1. A seeding attachment for a cultivator comprising a seed container having a seed discharge opening in the center of the bottom thereof, and a double-incline chute mounted below said opening for receiving seed from the container and arranged for automatic rocking movement to discharge said seeds from both ends thereof to the ground.

1,345,363. BOTTLE-CLOSURE. CHARLES HAMMER, Queens, N. Y., assignor to American Metal Cap Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 19, 1918. Serial No. 258,879. 4 Claims. (Cl. 215—9.)



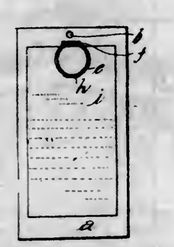
1. A bottle closure comprising a body formed of a metal strip bent in the form of a cylinder with the ends secured together, such securing means comprising one end of the strip being bent back inwardly to form a channel, the other end being first doubled back flat on itself on the inside, with the end portion bent forward to form a channel that has the edge bent inward a short distance, the said other bent edge being inserted in said channel portion to have its bent edge engaged in the said bent edge and all said bent portions being flattened together to interlock with the edges concealed in the joint, said body having the top and bottom margins extended beyond the said joint, a disk closing one end of the body that has its margins interlocked with said extension of the body, the open end of the closure having the projecting margin bent back outwardly to form a bead, the said strip having an extension at the joint that is bent outwardly to form a part of said bead at the open end.

1,345,364. THROTTLE-VALVE. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 24, 1918. Serial No. 255,466. 3 Claims. (Cl. 121—10.)



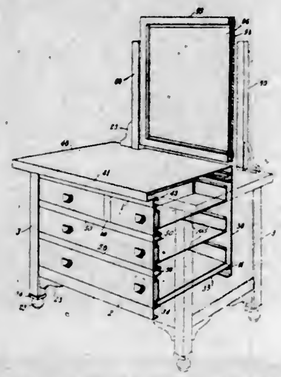
1. A throttle valve for percussive drills, adapted to control the admission of motive fluid to the tool and cleansing fluid to the drill steel, comprising a casing having alined oppositely tapered valve seating portions, tapered valves seated in said portions, a spring adapted to press both of said valves against their seats and means for simultaneously operating said valves.

1,345,365. FILE FOR LOOSE SHEETS. NORMAN FIELD HUTCHISON, Balwyn, near Melbourne, Victoria, Australia. Filed Apr. 10, 1918. Serial No. 227,635. 1 Claim. (Cl. 129—20.)



A loose sheet supporting sheet having an elongated horizontal slot adjacent the upper edge thereof; and a spring clip comprising two coils connected together integrally at their tops, the connecting portion of the clip passing through said elongated slot and engaging the lower edge of the slot whereby the clip is suspended from the lower edge of the slot, the coils of the clip having a normal tendency to move toward each other to hold loose sheets placed under the coils to each side of the supporting sheet, the lower edge of each coil being straight and upturned to facilitate the entrance of the edges of loose sheets between the supporting sheet and the coil.

1,345,366. FURNITURE. ADOLF B. JIPPSON, Cleveland, Ohio, assignor to The Ohio Blower Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 3, 1917. Serial No. 152,429. 39 Claims. (Cl. 45—5.)



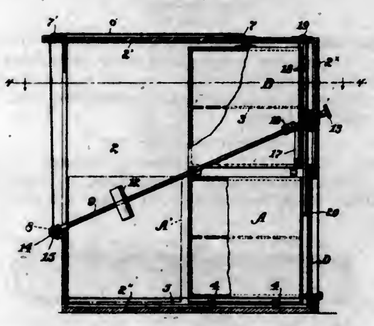
1. In an article of furniture, the combination of an upper and a lower frame, and members having panel sections fitting between and engaging the frames and upper and lower extensions secured to the frames for holding the frames against the panel sections.

15. In a leg construction for articles of furniture of the class described, the combination with a frame, of a plate of angular formation embracing the corner of the frame and extending below the same, the edges of said plate being turned inward beneath the frame, and a second angle plate the vertical edges whereof interlock with the corresponding inturned edges of the former plate and having its upper end arranged for connection with the underneath side of the frame.

37. A mirror support for articles of furniture of the character set forth comprising front and side walls formed of an integral sheet, a rear wall having its side edges interlocked with the rear edges of the side walls, one of the walls having its upper end turned over to constitute a top for the support, and a connecting device situated at the lower end of the support.

39. In an article of furniture of the character set forth, the combination of a frame constituting the upper end of the body portion of the article, and a sheet metal top having a peripheral depending flange and an inwardly directed portion therebeyond arranged to rest upon the frame, a part of the inwardly directed portion being turned downward to engage the inner edge of the frame thereby to properly position the top with respect to the frame.

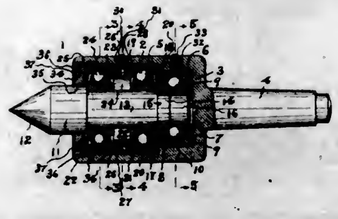
1,345,367. ADJUSTABLE SHOW-CASE. ALBERT O. JOHNSON, Northwood, Iowa. Filed Sept. 22, 1919. Serial No. 325,350. 7 Claims. (Cl. 211—16.)



1. In combination a main housing, a pair of cases therein for containing goods, one arranged above the other at the front of the housing, the lower case being movable toward the rear and the upper case being vertically movable, flexible connections for suspending the upper case, a shaft pivotally mounted near its front end and screw threaded and having a weight thereon, said screw shaft being connected with the flexible connection.

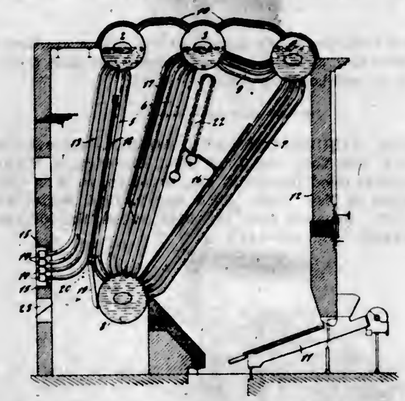
2. In combination a main housing, two goods-containing cases therein, one movable to the front or rear and the other movable vertically, flexible connections suspending the vertical movable case, a pair of screw shafts pivotally mounted near their ends, weights adjustable on the screw shafts, means for interconnecting the shafts, said shafts being connected with the flexible suspending means.

1,345,368. CENTER-POINT DEVICE FOR LATHES, &c. JACOB KELL, Newark, N. J. Filed July 17, 1919. Serial No. 311,624. 8 Claims. (Cl. 82—33.)



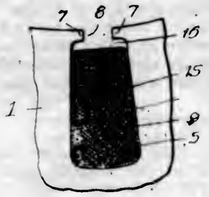
1. In a device of the kind described, a rotatable center-point member, a holder having an inwardly extending chamber for the reception of the rearward portion of said center-point member, a thrust ball-bearing device seated in the rear end of said chamber with which the inner end of said center-point member coöperates, a pair of longitudinally spaced inner race-rings fixed on said center-point member, anti-friction balls riding on said inner race-rings, a pair of outer race-rings against which said balls run, a separator ring between said outer race-rings, a cap-plate threaded to screw into the outer open end of said holder to bear against the forward outer race-ring to impart an adjusting movement to the latter and through said separator ring to the rearward outer race-ring, and said cap-plate having a central opening through which the forward end of said center-point member projects.

1,345,369. ECONOMIZER FOR TRANSVERSE-DRUM BOILERS. HOWARD J. KNAB, Bayonne, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed May 4, 1918. Serial No. 232,478. 7 Claims. (Cl. 122—444.)



1. A boiler of the general Stirling type having transverse upper drums connected by banks of tubes to a lower transverse drum or drums, baffling arranged to give the gases serial up and down passes over the tubes, a rear economizer having tubes within the setting and their upper ends connected to one of the upper transverse drums, and their lower ends bent rearwardly, and a plurality of cross boxes located at the rear of the setting to which the lower ends of the economizer tubes are connected.

1,345,370. DYNAMO-ELECTRIC MACHINE. AUSTIN KIMBLE, Wausau, Wis., assignor to Marathon Electric & Manufacturing Co., Wausau, Wis. Filed Mar. 19, 1919. Serial No. 283,554. 2 Claims. (Cl. 171—206.)



1. The method of providing an air passageway through a core slot adjacent to the teeth and windings, which consists in placing a key in the slot parallel with the windings in tight-fitting relation thereto, and in engagement with the adjacent teeth for securing the windings initially, applying a hard setting material to the windings, and then removing the key after the material has set.

1,345,371. MOLD FOR HOLLOW WALLS. OTTO KOFSTAD, Warroad, Minn. Filed Mar. 14, 1919. Serial No. 282,722. 4 Claims. (Cl. 25—131.)

1. A mold for concrete hollow wall construction, the same comprising parallel flat vertical mold members adapted to form the inner and outer sides of the wall, a collapsible core spaced between said mold members, and means for holding the mold members and the core in the desired relation and position; said core composed of two parallel flat core members and a series of removable spacing rods inserted between said core members; said core having a cover over the space between its members, and said spacing rods being suspended through holes in the



cover and having their upper ends provided with means for engaging the cover to suspend the rods and to serve as handles in removing the rods.

1,345,372. LUBRICANT-LEAKAGE-PREVENTING DEVICE FOR COMPRESSORS. GUSTAV A. KRAMER, New York, N. Y., assignor, by mesne assignments, to Balsa Refrigerator Corporation, New York, N. Y., a Corporation of New York. Original application filed Jan. 4, 1917. Serial No. 140,509. Divided and this application filed Jan. 7, 1919. Serial No. 270,015. 4 Claims. (Cl. 286—11.)

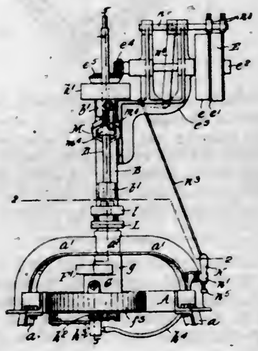


1. The combination of a fluid containing chamber, a shaft extending through a wall thereof, a stuffing gland including a member fixed relatively to the shaft and a member movable relatively thereto, said members having coöperating rigid fluid-tight faces, means for holding the members in fluid-tight relation under normal fluid pressure, and separate means for assisting the holding means under increased fluid pressure.

1,345,373. PROCESS OF PRODUCING HALOGENATED HOMOLOGUES OF BENZENE. LUCAS PETROU KYRIDES, New York, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed July 26, 1917. Serial No. 182,873. 6 Claims. (Cl. 23—24.)

1. The process which comprises maintaining toluene in reactive relation with chlorin in the presence of sulfur chlorid substantially as and for the purpose described.

1,345,374. POLISHING-MACHINE. WILLIAM LA HODNY, Buffalo, N. Y. Filed Aug. 27, 1917. Serial No. 188,274. 10 Claims. (Cl. 51—11.)



1. The combination of a frame, a rotary polishing member journaled on said frame, a rotary work supporting

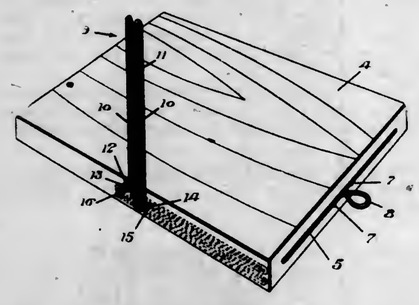
member arranged on said frame to turn in a plane substantially parallel with the plane of rotation of the polishing member, and means for adjusting said work supporting members relatively to said polishing member for varying the eccentricity of the work supporting member in regard to said polishing member.

1,345,375. SPLICING-MACHINE. HENRY A. LEMAY, Brooklyn, N. Y. Filed Dec. 9, 1919. Serial No. 343,484. 9 Claims. (Cl. 28—21.)



6. A machine of the class described comprising a frame, a shaft rotatably mounted therein, gears mounted on the opposite ends of said shaft, thread holding members mounted in the frame and geared in connection with said first named gears in such manner as to rotate in opposite directions, means for securing the end portions of separate threads in said members, means for securing the ends of said threads to the frame, a rack movably mounted in the frame and adapted in one movement thereof to rotate said members in opposite directions to unwind the end portions of said threads, and means operated through said rack for holding the unwound end portions of said threads together.

1,345,376. BREAD-SLICING BOARD. CASWELL LEE LEONARD, Corinth, Miss. Filed Feb. 27, 1920. Serial No. 361,612. 4 Claims. (Cl. 146—12.)



1. A bread board, and a knife guide bent from wire having its terminals disposed adjacent to one edge of the board and disconnected, one terminal being pivoted to said edge of the board for the swinging movement of the guide along said edge or to a position at an angle with the board, the other terminal and edge of the board having means to interengage for holding the guide in position.

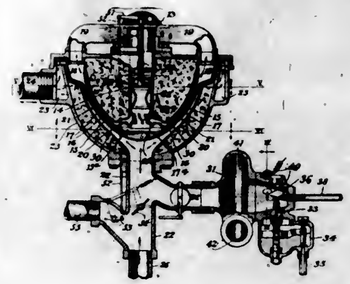
1,345,377. REFRACTORY ARTICLE AND METHOD OF MAKING THE SAME. SILAS C. LINBARGER, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of New York. Filed Oct. 31, 1918. Serial No. 260,449. 4 Claims. (Cl. 18—60.)

1. A refractory article having a body portion consisting substantially of fireclay, a facing portion containing a substantial portion of silicon carbid, and an intermediate portion containing silicon carbid in such decreasing



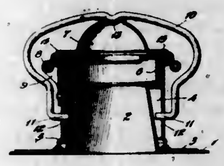
amounts from the facing portion as will give a graduated and increasing coefficient of expansion from said facing portion to said body portion.

1,345,378. LIQUID-FUEL CARBURATION. CHARLES E. LUCKE, New York, and JOHN GOOD, Brooklyn, N. Y., assignors to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 9, 1914, Serial No. 830,705. Renewed June 24, 1919. Serial No. 306,429. 4 Claims. (Cl. 48—219.)



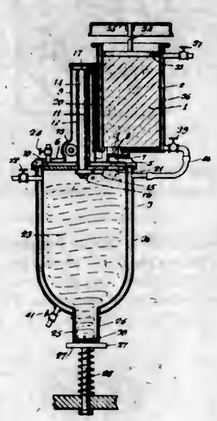
1. The method of making combustible gaseous mixtures consisting in combining air and liquid fuel in predetermined proportions suited for complete combustion of the fuel, depositing the liquid as a thin, extended film upon a heated surface, and coincidently forcibly removing the vapor from such heated liquid film by advancing the air in the form of a stream of high velocity over and in frictional contact with the surface thereof while maintaining the temperature of said film lower than that which decomposes the liquid.

1,345,379. RADIATOR-CAP. WARREN MCARTHUR, Jr., Phoenix, Ariz. Filed May 2, 1919. Serial No. 294,240. 9 Claims. (Cl. 220—86.)



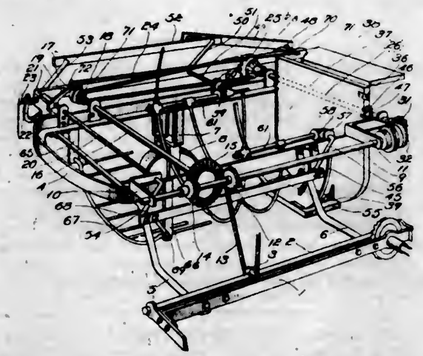
1. A cap for radiators having, in combination, a sleeve open at the bottom and top, means at the top of the sleeve for securing the same to the neck of the radiator, the sleeve depending thence free of and housing the lower part of the neck, and a cover for the top of the sleeve hinged directly to the upper end of the same.

1,345,380. APPARATUS FOR CANNING. FRANCIS P. MCCOLL, Ridgewood, N. J., and WALTER WILLIAM WILLISON, New York, N. Y., assignors to Thermokept Products Corporation, New York, N. Y., a Corporation of Maine. Filed Jan. 7, 1919. Serial No. 270,095. 4 Claims. (Cl. 99—2.)



3. In a vacuum apparatus the combination of a vacuum kettle a reservoir for the articles to be treated and a perforated plate to permit the article to be drawn or sucked from the reservoir into the vacuum kettle by the vacuum maintained in said kettle.

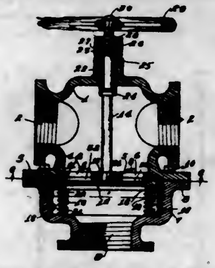
1,345,381. SHOCKER ATTACHMENT FOR GRAIN-BINDERS. JAMES A. MCELROY, Kansas City, Mo. Filed Dec. 20, 1918. Serial No. 267,580. 17 Claims. (Cl. 56—423.)



1. A shocker attachment for binders comprising a frame connected to the binder, shock holding means, shock compressing means, means for initially imparting a relatively slow movement to the compressing means, and means for increasing the speed of the compressing means.

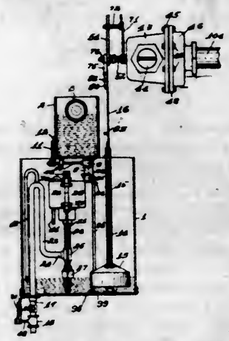
1,345,382. VALVE. ALEXANDER MCKIBBIN, Chicago, Ill. Filed July 18, 1918. Serial No. 245,516. 4 Claims. (Cl. 251—90.)

1. The combination of a valve casing having an inlet and an outlet, and a perforated partition between the inlet and outlet, a packing disk bearing against the partition and having perforations adapted to register with the perforations of the partition, a valve disk provided with perforations therein and having means at the exterior of the casing for operating the valve disk to control the passage of fluid through the perforations, a ring engaging the valve disk, means for resiliently pressing the ring against the valve disk so as to maintain the packing disk



between the partition and the valve disk under sufficient pressure to effect a tight joint.

1,345,383. AUTOMATIC CONTROLLER. ALEXANDER MCKIBBIN, Chicago, Ill. Filed July 31, 1918. Serial No. 247,701. 24 Claims. (Cl. 161—1.)



1. In an automatic controller, the combination of a receptacle having a float therein adapted to control the operation of a mechanism, an an inlet valve and an outlet valve for the receptacle, each being provided with a graduated scale for effecting adjustments of the valves to fill and empty the receptacle during predetermined intervals of time to regulate the operation of said mechanism.

1,345,384. MARINE-ENGINE-OPERATION INDICATOR. JOHN MCRAE, Vancouver, British Columbia, Canada. Filed July 25, 1919. Serial No. 313,231. 1 Claim. (Cl. 116—21.)



An indicator of the character described comprising a rotatable body provided with a pointer normally vertical, a flexible element secured to the end of said pointer terminating in an indicator, and operating means for rotating said body to carry said pointer to horizontal positions respectively on either side of its vertical center line.

1,345,385. PLAYGROUND-SWING. PHILIP S. MEDART, St. Louis, Mo., assignor to Fred Medart Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 17, 1920. Serial No. 352,064. 2 Claims. (Cl. 155—58.)

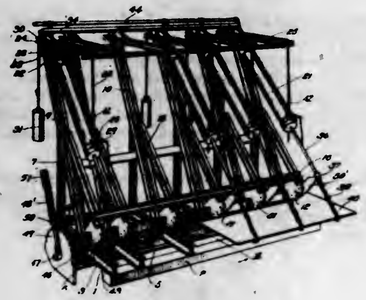
1. In a swing, the combination of a seat, a pair of flexible suspension members, and attachments between the seat

and suspension members, each attachment comprising an angle-bracket having a horizontal attaching flange, a vertical flange formed with a pair of out-turned orificed ears,



and a clevis pivotally attached to said ears and to the lower end of a suspension member, the respective pivot axes having a right-angle relation.

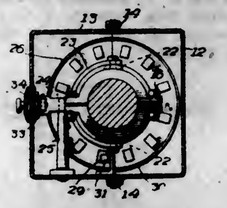
1,345,386. PLATE-BENDING MACHINE. ALFRED M. MEYERS, Merriam, Kans. Filed Apr. 6, 1918. Serial No. 226,992. 6 Claims. (Cl. 153—32.)



5. A plate bending machine comprising in combination, a base, a plurality of form members on said base, means on said form members for varying the curvature thereof, means opposite said form members and spaced therefrom to receive the edge of the plate to be bent, flexible members each secured at one end to said base and disposed around the free edge of the plate to be bent, and power means to operate the flexible means to draw the plate against said form members.

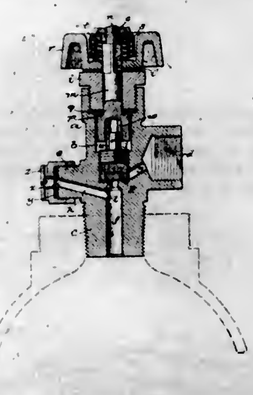
1,345,387. AUTOMOBILE-ALARM. WALTER R. MORAN, Worcester, Mass., assignor of one-half to Alexander Goldstein, Worcester, Mass. Filed Aug. 4, 1919. Serial No. 315,337. 3 Claims. (Cl. 116—33.)

3. An automobile alarm having, in combination, a resonant disk having a plurality of projections thereon, a member effective to directly and positively engage said projections, means to rotate one of said parts about the



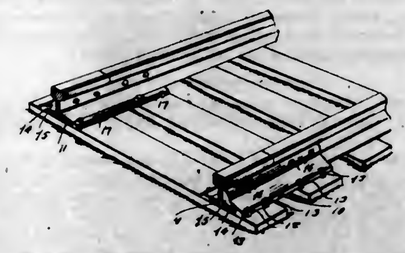
axis of said disk and locking means to cause coöperative engagement of said parts to sound an alarm.

1,345,388. VALVE FOR HIGH-PRESSURE-FLUID CONTAINERS. RUDOLPH J. J. MUELLER, Sheboygan, Wis., assignor to Universal Oxygen Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed Jan. 10, 1918. Serial No. 211,129. 1 Claim. (Cl. 251—47.)



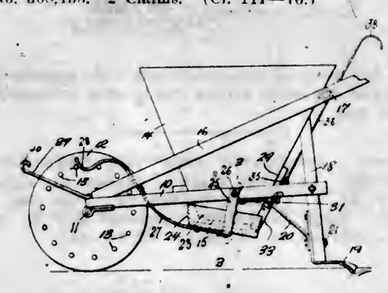
In a valve for high pressure fluid containers the combination of a valve case formed with a chamber, inlet and outlet passages and a seat surrounding the opening of the inlet passage into said chamber, a valve head threaded in said chamber and adapted to close on said seat, and a stem rotatably mounted in the case in axial alinement with said head, the stem and head being formed axially one with a socket and the other with a tongue of corresponding shape freely fitting the socket and consisting of a cylindrical central portion intersected by cylindrical wings of smaller diameter on opposite sides thereof.

1,345,389. RAILWAY-TRACK EQUIPMENT. ARCHIBALD C. MUIR, Brilliant, N. Mex. Filed Nov. 2, 1918. Serial No. 260,887. 1 Claim. (Cl. 238—210.)



A device of the character described comprising rail engaging members each having a base plate for fitting beneath the base of a rail and cut out longitudinally to provide a rail receiving seat, an overhanging shoulder formed integrally with the outer portion of the base plate for engaging the upper face of the base of a rail and having an upstanding extension for engaging the web of a rail and provided with nut receiving openings, a bracing bar extending between the rail engaging elements and fitting beneath the inner ends thereof, and securing elements extending through the inner end portions of the rail engaging elements and through the end portions of the bracing bar.

1,345,390. FERTILIZER-DISTRIBUTER. BLOUNT T. NOBLES, Winterville, N. C. Filed July 3, 1919. Serial No. 308,453. 2 Claims. (Cl. 111—76.)



1. A fertilizer distributer including a wheeled frame, supporting a hopper, a distributer having an open end beneath the discharge end of the hopper, a bail pivoted to the frame and extending beneath and secured to the distributer for swingingly mounting the same, means connected with the distributer and engaging the wheels on the frame for agitating the distributer, an adjustable closure for the open end of the distributer carried by the hopper, and a plate valve slidably mounted on the closure for periodically cutting off the discharge of fertilizer from the distributer.

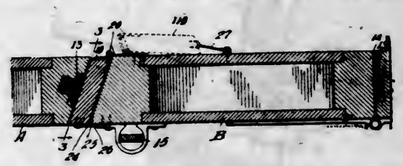
1,345,391. INSULATION FOR REFRIGERATOR-CARS AND THE LIKE. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Dec. 20, 1916. Serial No. 137,962. 1 Claim. (Cl. 20—69.)



An insulation for refrigerators and the like which comprises, in combination, a member having a groove with a plain bottom extending longitudinally along one edge thereof, a layer of flexible material bridging said groove, and a spring plate loosely mounted within said groove, said spring plate being of substantially S-shape in cross section with each edge curled, said curled edges being normally of such diameter as to each have longitudinally extending line bearing against the bottom of the groove and against the flexible material to force the latter along two lines outwardly beyond the edge of said member, said curled edges being compressible and thereby maintaining said line bearing contacts between the flexible material and the spring plate and between the spring plate and the bottom of the groove.

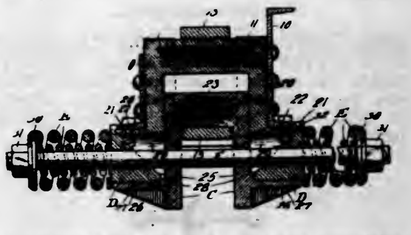
1,345,392. REFRIGERATOR-CAR DOOR. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Jan. 8, 1918. Serial No. 210,881. 2 Claims. (Cl. 20—16.)

2. In a railway refrigerator car having a side door opening through which the car is adapted to be loaded or unloaded, of a pair of pivoted, insulated doors adapted to close said opening when the doors are in closed position, said doors having vertically extending meeting edges, one of said doors having a section at its free edge movably attached to the main portion of said door, said section



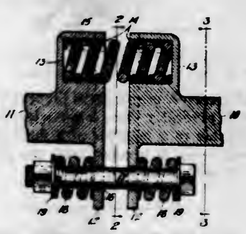
being adapted to be moved to a position overlying one face of the main portion of the door of which it forms a part to thereby leave a ventilating opening between the edges of the two doors when the latter are both in closed position, and means for locking said doors in closed position.

1,345,393. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Jan. 20, 1919. Serial No. 271,943. 7 Claims. (Cl. 213—64.)



5. A friction shock absorbing mechanism comprising; a pair of wedge end blocks, an interposed pair of relatively movble friction members, spring means supported by one of said friction members, and friction wedge means interposed between said spring means and the other of said friction members.

1,345,394. FLEXIBLE COUPLING FOR SHAFTING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Sept. 5, 1919. Serial No. 321,752. 4 Claims. (Cl. 64—96.)

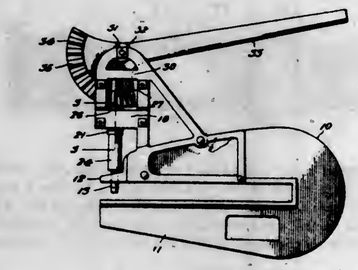


1. A flexible coupling comprising, rotatable driving and driven mebers having adjacent ends, means interposed betwen said members tending to yieldingly separate the same, and means associated with said members tending to yieldingly move said members toward each other, both of said means being arranged to permit relative rotation betwen said members for a limited extent.

1,345,395. ELEVATOR-BELT PUNCH. JOSEPH ARTHUR PACKHEISER, Picher, Okla. Filed Aug. 19, 1919. Serial No. 318,439. 2 Claims. (Cl. 164—101.)

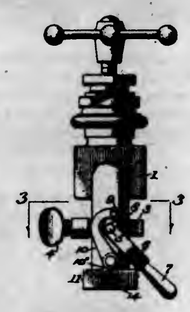
1. In a belt punch, a frame including an anvil arm and an upper arm overlying the anvil arm, a threaded boxing

carried by the upper arm, a threaded shaft engaging said boxing, a bit guided through an opening in said arm, a chuck sleeve having a locking engagement with the bit and



removably connected to the lower end of the shaft, and means for imparting motion to the shaft whereby a simultaneous rotary and longitudinal movement is imparted to the bit.

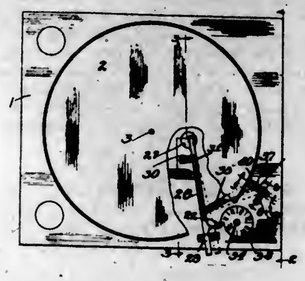
1,345,396. DEVICE FOR CLAMPING FLUID-HEATERS WITH SUPPLY MEMBERS. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 11, 1919. Serial No. 316,554. 3 Claims. (Cl. 285—107.)



1. A fluid receiver, crank arms pivotally connected therewith, a lever pivotally connected with said arms, and a clamp detachable to a member of a fluid-supply device and to which said lever is pivoted with its pivot intermediate the pivots of said lever and arms.

1,345,397. BRAKE FOR PHONOGRAPHS. ARCHIE E. PARNALL, Chicago, Ill., assignor to Frank W. Williams, Chicago, Ill. Filed Aug. 21, 1917. Serial No. 187,391. 2 Claims. (Cl. 74—46.)

1. The combination with the record playing disk and governor disk of a phonograph, of a pivotally mounted lever, a downwardly projecting arm integrally formed thereon, a brake shoe on the end of said arm disposed adjacent said governor disk, a starting lever connected with said first mentioned lever, means pivotally supporting the starting lever, an angled lever pivotally connected to sad starting lever, a brake shoe thereon disposed to the outside of the periphery of said record playing disk, guide means for said angled lever, and slotted means supporting the outer end of said starting lever and permitting a shifting movement thereof to simultaneously actuate said first mentioned lever and said angled lever to move said brake



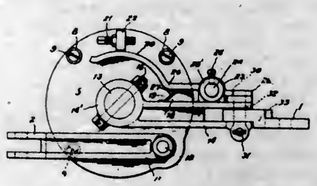
shoes into frictional engagement with said respective governor disk and record playing disk to bring the same to a sudden stop.

1,345,398. AUTOMATIC STOP FOR TALKING-MACHINES. ARCHIE E. PARNALL, Chicago, Ill., assignor to Frank W. Williams, Chicago, Ill. Filed Aug. 21, 1917. Serial No. 187,392. Renewed May 22, 1920. Serial No. 383,544. 1 Claim. (Cl. 74—46.)



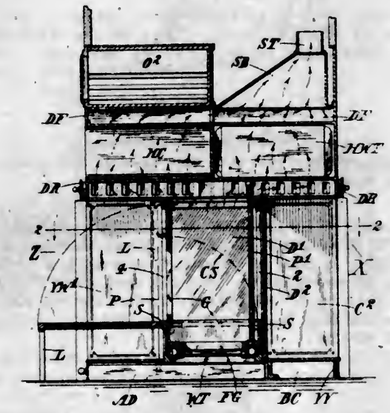
A talking machine mechanism embracing a base plate, an arm pivoted thereon, a latch and a brake shoe on said arm on opposite sides of the pivot point of sad arm, a spring on sad base plate connected with said arm for normally holding the same in braking position, a shaft pivoted on said base plate, a clamping bracket engaged on said shaft, an actuating lever secured therein, a member secured to ts said shaft, and a spring engaging around said shaft and attached to said base plate and to said member, said arm being adapted to be pulled outwardly against the action of said arm spring to permit said latch to lockingly engage said member to hold said lever in a set position whereby said brake shoe is held in a retracted position.

1,345,399. DRAW-BAR. FRANK A. PECK and JAMES E. A. MOORE, Cleveland, Ohio. Filed Nov. 25, 1918. Serial No. 264,048. 11 Claims. (Cl. 213—67.)



1. A draw-bar comprising, an element adapted for attachment to a tractor; an element adapted for attachment to an implement; a torsion spring secured at its ends relatively to said elements, respectively; and a trip adapted to be moved proportionately to the stress imposed upon said spring, a predetermined movement of said trip being adapted to render the tractor non-effective.

1,345,400. DOMESTIC HEATING AND COOKING APPARATUS. NOEL PEMBERTON-BILLING, Hertford, England. Filed July 23, 1919. Serial No. 312,852. 20 Claims. (Cl. 126—4.)



20. A heating apparatus, comprising a rectangular shaft having a plurality of doors therein, and vertical webs extending radially from the corners of said shaft and adapted to coöperate with said doors to protect the same when in open position, substantially as described.

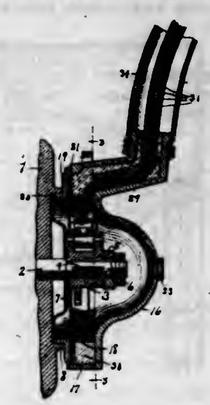
1,345,401. DISH-RACK FOR WASHING-MACHINES. AARON RATNER, New York, N. Y. Filed June 6, 1919. Serial No. 302,333. 4 Claims. (Cl. 141—9.)



1. A dish supporting rack comprising end walls, supporting rods interconnecting the lower portions of said end walls, side rods interconnecting the side portions of said end walls, a plurality of transverse partition members slidable on said side rods, said partition members each comprising upper and lower cross-bars having eye-portions at their ends in embracing slidable relation to said side rods, and vertical rods interconnecting said upper and lower cross-bars.

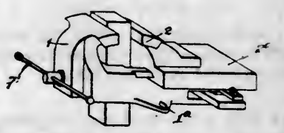
1,345,402. TIMING DEVICE. JAMES D. REED, Eagle, Mich. Filed May 2, 1919. Serial No. 294,168. 3 Claims. (Cl. 200—24.)

2. In a timing device for internal combustion engines, the combination of a flanged base and a timing shaft supporting a contact roller, a cap having a hollow neck, an L-shaped non-conducting timing ring secured within the cap and so formed as to leave a circular chamber, a series of contact plates mounted in the ring in the path of the roller, a stem for each contact plate extending through the ring into said circular chamber, a wire extending from each stem out through the neck of the cap, fusible non-conducting material filling the circular chamber and neck of the cap and in which the wires are embedded, a bearing ring mounted in said cap and having a flange fitting the



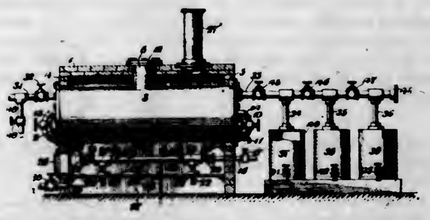
flanged base, and means to secure the cap, timing ring and bearing ring together.

1,345,403. BENCH-SCREW. HUGO REISIGER, Rotterdam, Netherlands. Filed Aug. 14, 1919. Serial No. 317,574. 2 Claims. (Cl. 81—17.)



2. A vise, comprising a pair of jaws, one fixed and the other slidable relatively thereto, a cross member slidably carried by said fixed jaw, a pair of rods slidably carried by the fixed jaw in operative engagement with said cross member, a pair of clutches pivotally carried by said fixed jaw and pivotally connected to said cross member, a depending member carried by said slidable jaw and adapted to slide between said clutches, and means carried by the fixed jaw for sliding said rods thereby to cause said clutches to grip said depending member and force the slidable jaw toward the fixed jaw.

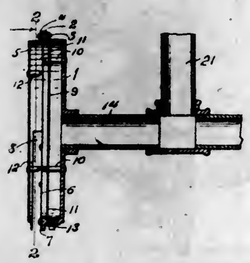
1,345,404. DISTILLATION-RETORT AND SEPARATING-TANK. GEORGE F. RENDALL, New York, N. Y., assignor to Carbon Products Company, a Corporation of Delaware. Filed June 13, 1917. Serial No. 174,437. Renewed May 26, 1920. Serial No. 384,508. 2 Claims. (Cl. 158—7.)



1. An apparatus of the character described, comprising a combustion chamber, a material containing retort therein, an air chamber, a perforated partition separating said combustion chamber from said air chamber, burners adjustably supported on said partition in said combustion

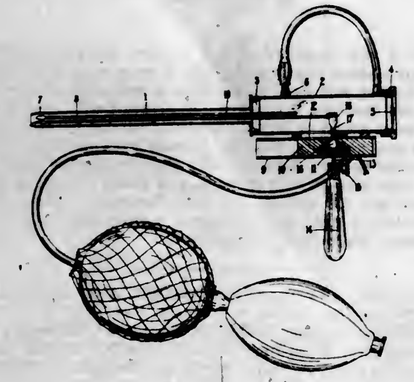
chamber, regulator caps on said burners for the admission of preheated air into said burners, and a gas supply pipe communicating with said burners from without the combustion chamber.

1,345,405. DUST-ARRESTER FOR AIR-COMPRESSORS. JAMES R. RICKETTS, Kansas City, Mo. Filed Dec. 16, 1918. Serial No. 266,877. 5 Claims. (Cl. 183—58.)



1. In a dust arrester, a casing having an opening in its lower side communicating with the atmosphere and having a cleanout opening and a removable closure normally closing said cleanout opening, and a vertical screen extending transversely across said casing intermediate of said openings and disposed so that dust dropping from the outer side of the screen will pass through the first named opening.

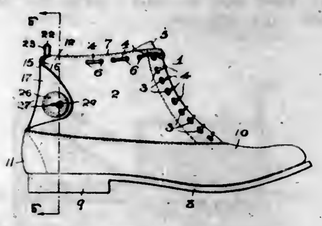
1,345,406. URETHROSCOPE AND LIKE SURGICAL INSTRUMENT. MARK CUBBON RIMMER, London, England. Filed Oct. 30, 1919. Serial No. 334,413. 4 Claims. (Cl. 128—6.)



4. A surgical instrument of the kind referred to having a spindle passing through a lateral opening therein, means for reciprocating said spindle axially of the instrument, an operating instrument secured to said spindle, and means for preventing escape of fluid through said lateral opening.

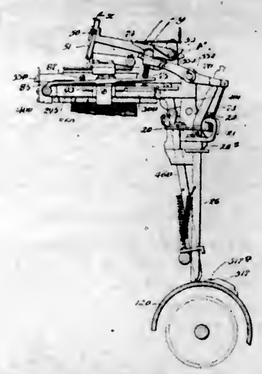
1,345,407. SHOE. ADOLF J. SCHNEIDER, Brooklyn, N. Y. Filed Dec. 3, 1918. Serial No. 265,097. 1 Claim. (Cl. 36—50.)

A shoe having its quarters separated in the rear so as to provide an opening, one of said quarters having a rearwardly extending portion forming an integral part of said quarter and providing an inner closing flap, the other quarter having a straight marginal edge-portion, and an outer flap comprising a main body-portion and a flap-portion, said outer flap being secured by sewing along said straight marginal edge-portion diagonally across said outer flap on an imaginary line between the body-portion and



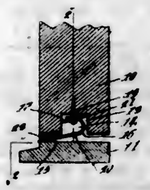
the flap-portion of said outer flap, substantially as and for the purposes set forth.

1,345,408. WEB-HOLDER MECHANISM FOR KNITTING-MACHINES. ROBERT W. SCOTT, Babylon, N. Y., assignor to Scott & Williams, Incorporated, a Corporation of Massachusetts. Original application filed Dec. 31, 1914. Serial No. 879,887. Divided and this application filed Sept. 30, 1919. Serial No. 327,392. 17 Claims. (Cl. 66—26.)



12. A knitting machine having therein, in combination, yarn feeding means including a yarn-guide pivoted to swing down into and up out of operative relation to the needles; web-holder actuating mechanism including a lever and cam pivoted to swing down into and up out of operative relation to web-holders; a pattern-surface, and means between said pattern surface and said yarn-feeding and web-holder actuating mechanism including a lever for simultaneously swinging said yarn-guide and web-holder cam up and down.

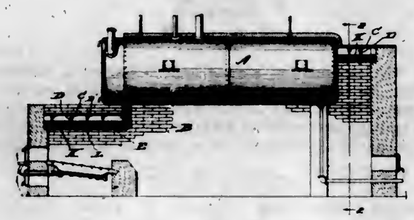
1,345,409. WEATHER-STRIP. CHARLES D. SHAFER, Escatawpa, Miss. Filed Mar. 12, 1918. Serial No. 221,976. 2 Claims. (Cl. 20—65.)



1. In combination with a closure having a groove in an edge thereof, a weather strip comprising narrow and wide elements spaced apart and connected at corresponding edges, the connecting portions being rounding, the wide element overlapping an edge portion of the closure at one side of the groove and the narrow element and rounded

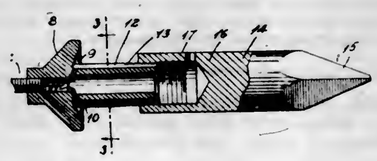
connecting portion being disposed within the said groove, and fastening means connecting the narrow element with the bottom of the groove to admit of the weather strip having both a tilting movement and a movement toward and from the grooved edge of the closure.

1,345,410. BOILER ARCH AND WALL AND MEANS FOR SUPPORTING SAME. LUTHER S. SHAW, Detroit, Mich. Filed May 31, 1919. Serial No. 300,897. 6 Claims. (Cl. 25—157.)



1. In a boiler setting, the combination of a plurality of beams suitably supported, a plurality of bolts suspended from said beams fitted with relatively large disks, or nuts for supporting an arch or wall, a platform for temporarily supporting an arch or wall of unburned fire brick material, a plurality of bolts detachably connected with said first named bolts by said disks for suspending the platform during the process of burning the fire brick material, and an arch or wall suspended from said first named bolts, formed of unburned fire brick material upon said platform and baked while temporarily supported thereby.

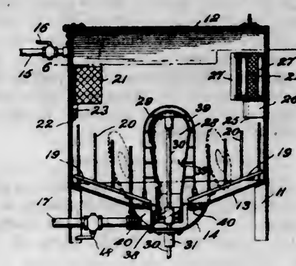
1,345,411. SELF-HEATED SOLDERING-IRON. HYMAN SILVER, New York, N. Y. Filed May 6, 1919. Serial No. 295,182. 1 Claim. (Cl. 158—26.)



A self-heating soldering iron including a head having a longitudinally extending bore in one end forming a combustion chamber, a burner tube having one end inserted into the bore for a predetermined distance, said burner tube having an annular series of spaced longitudinal flutes in its periphery to permit the escape of consumed gases from the combustion chamber, each flute having a relatively small opening in its bottom wall adjacent the shield through which an auxiliary supply of air is introduced into the fuel just prior to its combustion, a shield formed at the opposite end of the burner tube, a fuel inlet pipe connected to the shield in alinement with the burner tube, a handle on said pipe and means to introduce a supply of air and gas to the burner tube through the pipe.

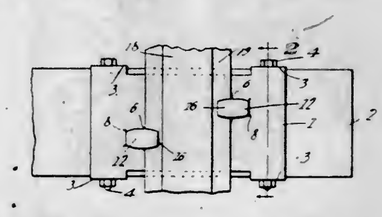
1,345,412. DISH-WASHING MACHINE. STEPHEN G. SMITH, Brooklyn, N. Y. Filed Jan. 2, 1919. Serial No. 269,314. 5 Claims. (Cl. 141—9.)

1. A washing machine comprising in combination a container, a central revoluble distributer within the same, and means surrounding the distributer, for supporting the articles to be washed; said distributer comprising a single upright hollow perforated shell having an open neck at the bottom of smaller diameter than said shell and provided with blades within said neck adapted when revolved to project water upward against the inner wall of said



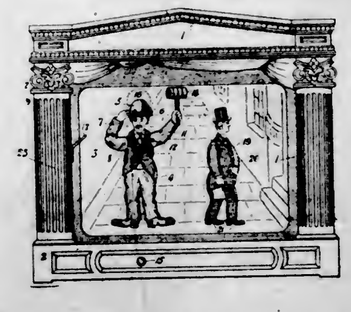
shell, whereby the water may be ejected by centrifugal action.

1,345,413. TIE-PLATE. FRENK SOWINSKY, Washington, D. C. Filed Dec. 27, 1919. Serial No. 347,711. 1 Claim. (Cl. 238—295.)



In a device of the class described, a plate having an opening, there being slits in the plate at the ends of the inner edge of the opening and at the ends of the outer edge of the opening, the slits forming bendable upwardly slanting tongues extended along three edges of the opening; and a spike including a head, a body, and a reduced neck connecting the head and the body and defining a groove extended along three sides of the spike and adapted for the reception of the tongues, the fourth side of the spike being smooth for sliding engagement with the plate at the inner edge of the opening.

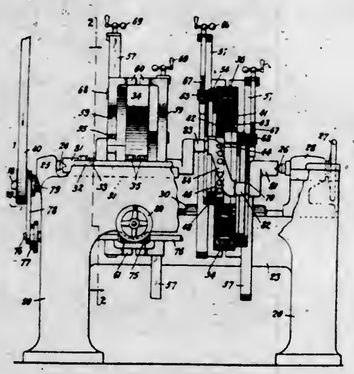
1,345,414. COMBINED TOY AND SAVINGS-BANK OR COLLECTING-BOX. ROBERT EASTWOOD STARKIE, Burnley, England. Filed Mar. 2, 1920. Serial No. 362,669. 1 Claim. (Cl. 46—36.)



In a toy, a vertical supporting screen having the picture of a partial human figure on its front surface, a right arm for the said figure pivoted to the screen against

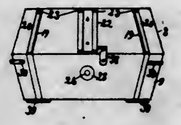
its front surface and provided with a hand holding a receptacle for a coin which also forms a hat for the said figure, a left arm for the said figure also pivoted to the screen against its front surface, levers secured to the pivots of the said arms and arranged at the rear side of the screen, means for normally holding the said arms in raised positions with the hat on the head of the figure and for moving the said arms and lever simultaneously in opposite directions, and a receptacle for receiving the coin when the right arm is moved pivotally by hand to discharge it from the receptacle.

1,345,415. APPARATUS FOR TURNING CRANK-PINS ON ENGINE-SHAFTS. AUGUST THOMAS, New York, N. Y., assignor to Elizabeth A. Baltensperger, New York, N. Y. Filed Mar. 4, 1919. Serial No. 280,666. 4 Claims. (Cl. 82—9.)



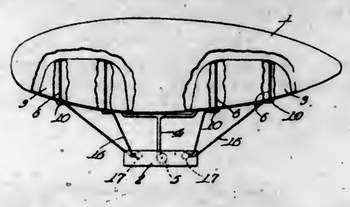
1. An apparatus of the kind described comprising a support, means thereon for rotatably supporting a crank-shaft having a plurality of integral crank-pins, a carriage adjustable on said support and forming a housing, an annular gear mounted in said housing, a drive shaft, a pinion thereon in mesh with said gear whereby the latter is driven, a gripping member within said gear and rotatable therewith, said member being arranged to detachably grip the crank-shaft, cutting tools, and means mounted upon said annular gear and carrying said cutting tools whereby the latter are caused to follow the movements of said crank-pins and to remain in cutting relation thereto as said annular gear is actuated.

1,345,416. BOAT AND TRUNK COMBINED. EMMET R. THOMAS, St. Paul, Minn. Filed Dec. 14, 1918. Serial No. 266,726. 6 Claims. (Cl. 190—1.)



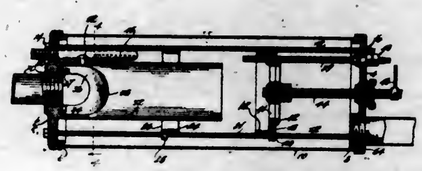
1. A collapsible boat partly tapered toward both ends and divided transversely into four hollow sections, the two middle sections being hinged together at the upper edges and therebelow provided with means for holding said sections rigid at the hinges when the sections are unfolded; the end sections of the boat being detachably secured to the hinged sections and of a size and shape permitting them to be placed one inside of each of the hinged sections, and means for holding the hinged sections folded with their upper sides together when so desired.

1,345,417. BALLONNET-GAGE. STARR TRUSCOTT, Birmingham, Ohio. Filed May 8, 1919. Serial No. 295,739. 10 Claims. (Cl. 244—3.)



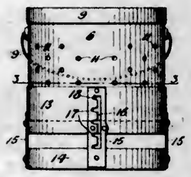
1. The combination with a balloon having a ballonnet therein, an indicator for indicating the inflated condition of the ballonnet, and means movable with the ballonnet and operatively connected with the indicator for operating the indicator according to the movements of the ballonnet.

1,345,418. MUFFLER. THOMAS T. TVEDT, Brooklyn, N. Y. Filed Sept. 12, 1917. Serial No. 190,955. 8 Claims. (Cl. 137—160.)



1. In a muffler, a cylindrical expansion chamber open at one end, means for conducting the exhaust gases into the other end of said chamber, stationary means for imparting a whirling motion to said gases as they enter said chamber, a second expansion chamber into which said first chamber discharges from its open end, and means accessible from outside of the muffler for effecting a variation in the relative capacities of said chambers.

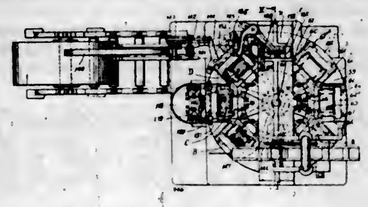
1,345,419. OIL-BURNING DEVICE. CHARLES A. VALENTINE, Buffalo, N. Y. Filed Mar. 19, 1919. Serial No. 283,614. 11 Claims. (Cl. 158—96.)



6. An oil burning device, comprising a porous body adapted to absorb a combustible oil, and a pan-shaped shutter movable toward and from the underside of said body.

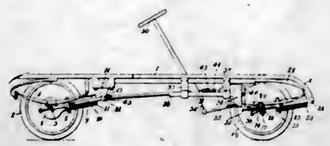
1,345,420. MATCH-BOXING MACHINE. CHARLES W. VAN VLEET, Saugerties, N. Y., assignor of three-eighths to James T. Maxwell, Saugerties, N. Y., and one-eighth to Henry S. Howland, Montclair, N. J. Filed Dec. 7, 1915. Serial No. 65,452. 23 Claims. (Cl. 93—2.)

1. A machine of the class described having in combination, means for feeding box blanks, means for feeding matches to the box blanks, means for feeding a protective strip to the top of the matches fed to each box blank, means for folding the box blanks about the matches and



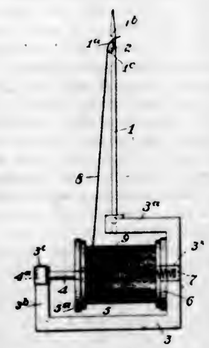
means for applying a removable cover to each box of matches.

1,345,421. CHASSIS. CHARLES WALLACE VAN VLEET and ROBERT EARL HALEY, Saugerties, N. Y., assignors of one-third to James T. Maxwell, Saugerties, N. Y. Filed Nov. 20, 1915, Serial No. 62,450. Renewed Apr. 26, 1920. Serial No. 376,832. 9 Claims. (Cl. 180—79.)



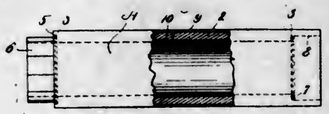
1. A chassis having in combination with a supporting frame wheels and axles, a member pivoted with respect to each of said axles on an axis parallel thereto, a second member pivoted with respect to said first member about an axis at right angles to said first axis, said second member being also pivoted to said frame on an axis parallel to the first axis, whereby said frame is prevented from moving longitudinally and laterally with respect to the axle but permitted to rock laterally about said second axis and steering mechanism having a member carried by the frame and a member carried with the steering axle, said last two members being connected by means permitting one to move vertically with respect to the other without causing movement of the steering axle whereby the lateral rocking of said frame does not affect the steering.

1,345,422. SEWING-NEEDLE. ANGELO VILLANI, Wilmington, Del. Filed Oct. 7, 1919. Serial No. 329,012. 3 Claims. (Cl. 223—37.)



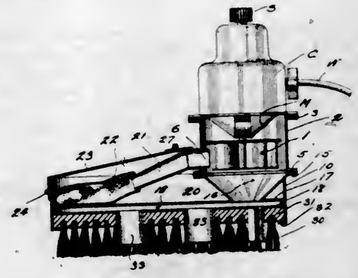
1. In combination, a needle, a handle therefor having a post, an arm having an end pivotally supported by the post, a spool support carried by the arm, and means for holding the arm against swinging.

1,345,423. SECTIONAL WOODEN PIPE-COVERING. CHARLES S. WALDO, Brookline, Mass., assignor to Waldo Brothers, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 30, 1918. Serial No. 256,297. 7 Claims. (Cl. 154—44.)



1. Sectional wooden pipe covering formed of staves comprising means embedded in the ends of the staves of a section for fastening the staves of the section together transversely.

1,345,424. VACUUM CLEANING-BRUSH. HENRY W. WASENSKA, Collinsville, Ill. Filed Feb. 28, 1919. Serial No. 279,721. 4 Claims. (Cl. 15—60.)



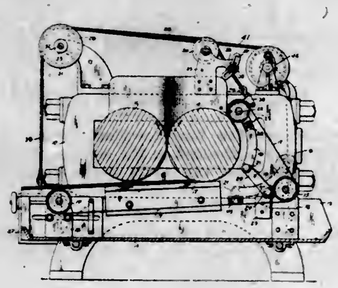
1. A vacuum cleaner comprising a brush, a hollow shell surrounding the brush back, the latter having openings into the shell, a partition above said back, a fan inlet pipe opening into said partition, a suction fan for drawing dust into said inlet pipe, a case for the fan communicating with said fan inlet pipe, a spout carried by the case and communicating with the interior of the shell, and a cover for the shell supported by said spout.

1,345,425. TAP. FRANK OREN WELLS, Greenfield, Mass., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass., a Corporation of Massachusetts. Filed June 30, 1919. Serial No. 307,701. 5 Claims. (Cl. 10—141.)



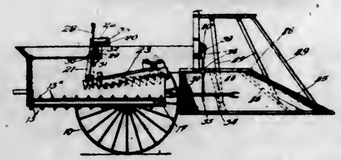
1. A combination roughing and finishing tap provided with longitudinal flutes parallel to the axis for a portion of its length, said flutes having at their forward end angularly disposed portions, finishing teeth being formed along the longitudinal portions, and roughing cutting teeth formed along the angular edges of said flutes.

1,345,426. ATTACHMENT FOR RUBBER-MIXING MILLS. HARRY ALLEN WELTON, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed June 6, 1918. Serial No. 238,552. 9 Claims. (Cl. 18—2.)



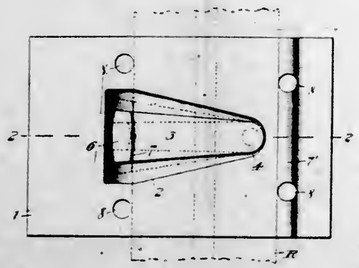
1. An attachment for mixing rolls embodying a support adapted to be secured to a mill underneath the milling rolls thereof, a frame foldable upon itself and pivotally secured at one end to said support, and means secured to the other end of the frame for extending or folding it, a roller mounted in said frame, and an apron trained over said roller.

1,345,427. SPREADER. GEORGE W. WILLIAMS, Morris, Ill. Filed Oct. 4, 1919. Serial No. 328,533. 4 Claims. (Cl. 275—5.)



1. In a spreader, a hopper, means for delivering material from the rear of said hopper, and a conical-shaped hood secured to the rear of the hopper and being inclined downwardly and outwardly and extending laterally from the sides of said hopper to thereby effectively protect the material being delivered from said hopper from the action of the wind.

1,345,428. RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed Feb. 28, 1916, Serial No. 81,010. Renewed Oct. 14, 1919. Serial No. 330,668. 17 Claims. (Cl. 238—304.)



16. A rail anchor comprising a chair, a carrier arm pivoted at one end to the chair, and a rail-clutching member loosely connected with the opposite end of the carrier.

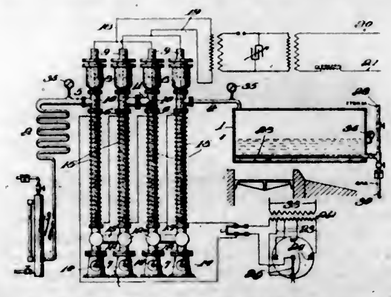
1,345,429. METHOD OF MAKING GLAZED KID-LEATHER. MICHAEL A. ZDANOWSKI, Philadelphia, Pa. Filed Apr. 21, 1917. Serial No. 163,582. 9 Claims. (Cl. 149—5.)

9. In the preparation of a tanning solution containing salt and aluminum sulfate, the step of melting the salt and aluminum sulfate before dissolving the same in water.

1,345,430. METHOD OF SEASONING LEATHER. MICHAEL A. ZDANOWSKI, Philadelphia, Pa. Original application filed Apr. 21, 1917, Serial No. 163,582. Divided and this application filed Apr. 27, 1920. Serial No. 376,955. 2 Claims. (Cl. 149—7.)

1. The sub-process in the making of glazed leather, which consists in seasoning the leather with a seasoning consisting of water, nigrosin, carbolic acid, blood albumen, wood alcohol, gelatin, and formaldehyde.

1,345,431. ELECTRICAL APPARATUS FOR THE ELECTROCHEMICAL TREATMENT OF VAPORS. LOUIS BOND CHERRY, Kansas City, Mo. Filed Oct. 9, 1917. Serial No. 195,608. 12 Claims. (Cl. 204—31.)



1. In combination, a still for vaporizing liquid hydrocarbons, a condenser, and a conduit for conducting the vaporized products from the still to the condenaer, said conduit embodying an elongated treating chamber remote from the still, means for maintaining the wall of said chamber at approximately a red heat, and means for subjecting the vaporized products while passing through said chamber to a high frequency electric current discharge while said products are under the influence of said hot wall.

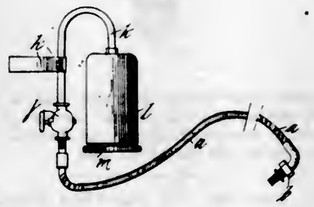
2. In apparatus for the purpose substantially as described, a series of treating chambers connected together in series to require the vaporized mixture to pass along an extended path longitudinally through each chamber in succession, means for subjecting the mixture while passing through said chambers to a high frequency electric current discharge, and means for maintaining the walls of the chambers at high temperatures to simultaneously subject the vapor to heat and said discharge.

3. Apparatus for electrically treating vaporized liquid hydrocarbons and other products comprising a series of elongated tubular units forming treating chambers constituting a conduit for said vaporized products, means for subjecting said products while passing through said chambers to a high frequency electric current discharge, and means for highly heating said products while being subjected to said discharge.

4. In apparatus for the purposes substantially as described, a series of metallic tubular units united by cross connections to form a continuous conduit, electrodes depending in said units, and means connected with the walls of said electrodes to subject the products in said conduit to a high frequency electric discharge.

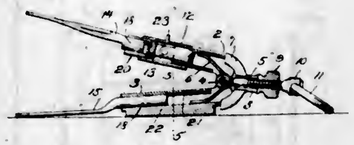
5. In apparatus substantially as set forth, a metallic tubular unit included in a conduit for vaporized liquid hydrocarbons and other products, means for subjecting the vaporized products in said unit to a high frequency electric current discharge, a solenoid exteriorly surrounding and arranged longitudinally of said unit and insulated therefrom and arranged to highly heat the same by induction, said solenoid being composed of a good electrical conductor, means for passing an alternating current through said solenoid, and means for controlling said current to vary the temperature of said unit.

1,345,432. FUEL-ECONOMIZING DEVICE FOR INTERNAL-COMBUSTION ENGINES. WILLIAM GEORGE CLAYTON, Upper Hawthorn, near Melbourne, Victoria, Australia. Filed June 16, 1917. Serial No. 175,231. 1 Claim. (Cl. 123—124.)



A fuel economizing device for internal combustion engines comprising a container, a detachable perforated cap thereon, sponges in said container, a body between said sponges adapted to increase the flash when mixed with the explosive charge at the time of ignition, a flexible pipe having one end in communication with said container and adapted to be connected at its other end to the engine manifold, a valve between said container and said pipe, the intermediate portion of said pipe being adapted to be alongside the exhaust pipe of the engine.

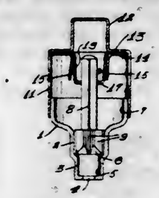
1,345,433. CROWN-ARTICULATOR. LOUIS COOPERMAN, New York, N. Y. Filed Dec. 22, 1919. Serial No. 346,544. 3 Claims. (Cl. 32—1.)



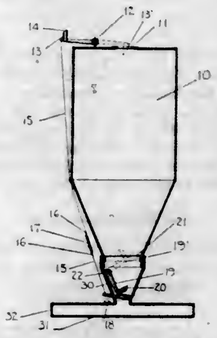
1. A crown articulator provided with two jaws pivoted together by a pivot, a coil spring about said pivot with ends extending into said jaws and adapted to separate them, a stem extending from said jaws, a washer mounted on said stem adapted to rest against said jaws in opposition to the tension of the spring, a nut mounted on said stem for determining the position of the washer and means connected to said jaws for receiving castings.

1,345,434. GREASE-CUP. SIDNEY DAWSON, Chicago, Ill., assignor, by direct and mesne assignments, to Dawson Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 19, 1918. Serial No. 254,736. 8 Claims. (Cl. 184—38.)

8. A grease cup embracing interfitting outer and inner locking members, a base member, means secured thereto for removably engaging said inner locking member to hold the same locked against rotation, and a grease container mechanism engaging the outer locking member and said base member, said container mechanism adapted to be manually rotated to rotate said outer locking member on said inner locking member as the container mechanism is telescoped over the base member.

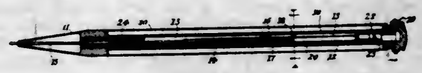


1,345,435. AUTOMATIC SELF-CONTAINED FIRE-EXTINGUISHER. CHARLES S. DURKEE, Grasmere, N. Y. Filed July 24, 1919. Serial No. 312,994. 1 Claim. (Cl. 169—26.)



A fire extinguisher having a self contained supply of fire extinguishing material, a vent area adapted to be pierced, a hammer adapted to be released by a rise in temperature and when so released to pierce the said vent area, a diaphragm adapted to be pierced and when so pierced to release the fire extinguishing material, and a hammer adapted to be released by a rise in temperature and when so released to pierce the said diaphragm, both of said hammers being released by a common releasing means operated by a rise in temperature, and normally restrained operating means for the hammers.

1,345,436. MAGAZINE-PENCIL. HARRY P. FAIRCHILD, New York, N. Y. Filed Apr. 5, 1917. Serial No. 159,849. 8 Claims. (Cl. 120—18.)

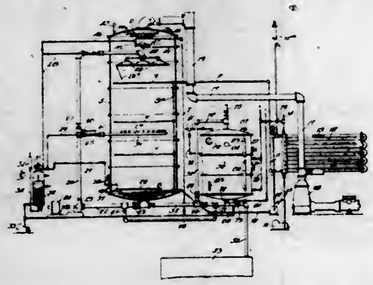


1. A pencil of the class described, having relatively rotatable outer parts, lead-actuating mechanism, including a helically slotted sleeve or tube, a magazine for extra leads surrounding the sleeve or tube, fastened to the sleeve or tube between the turns of the slot whereby the sleeve or tube is stiffened and strengthened, and connected to one of the said outer parts of the pencil whereby rotation of such part rotates the sleeve.

1,345,437. PROCESS AND APPARATUS FOR EXTRACTING ALCOHOL FROM LIQUIDS. FRANK FEHR, Louisville, Ky. Filed Nov. 22, 1916. Serial No. 132,743. 31 Claims. (Cl. 195—1.)

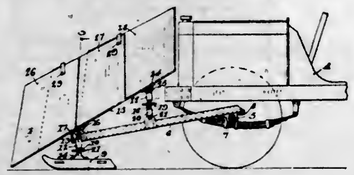
24. The method of extracting alcohol from liquids which comprises placing the liquid in a closed tank or

chamber, heating the liquid to a temperature sufficient to volatilize the alcohol without precipitating the albuminoids or producing other changes in the character of the organic constituents of the liquid, creating an exhaust current from the upper end of said tank to maintain a high vacuum in the tank and to draw off the volatilized alcohol, heating the upper end of said tank to prevent premature condensation of the alcohol vapor, circulating the liquid



by drawing it from the lower portion of the tank and discharging it into the upper portion above the body of the liquid, causing the liquid in circulation to be broken up into a spray in the tank above the body of liquid, and allowing air to be drawn by the vacuum into the body of liquid in the tank and into the circulating current of liquid prior to its encountering said spraying device whereby to increase the subdivision of the spray and produce a very fine mist.

1,345,438. SNOWPLOW. ANTHONY FRICKER, Cleveland, Ohio. Filed Dec. 23, 1918. Serial No. 268,034. 2 Claims. (Cl. 37—59.)



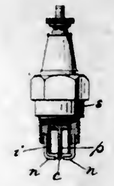
1. A snow plow comprising a base board, a pair of front blades separated from each other and curved outwardly, an intermediate set of blades separated from each other and curved outwardly, the forward portions of this intermediate set being disposed in the path of the snow passing through the apace between the separated front blades, a rear set of blades meeting each other at the front edges, the forward portions of this rear set of blades being disposed in the path of the snow passing through the space between the separated intermediate blades, and jack screw means adjustably supporting the front and rear of the plow, whereby the height and the inclination thereof may be readily adjusted.

1,345,439. DRAG-CAR. ROBERT HAMILTON and ELMER J. REIMEL, Birmingham, Ala. Filed May 29, 1919. Serial No. 300,548. 5 Claims. (Cl. 105—27.)



1. In a mine a longitudinal entry, a lateral working room communicating therewith, a drag car movable along said entry, work cars adapted to be loaded in said mining room, a guide sheave and cable in said room adapted to be connected with said work cars, and means carried by said drag car and co-acting with said guide sheave and cable to move the work cars into and out of said mining room.

1,345,440. SPARK-PLUG. ROBERT R. HILL, Verona, N. J. Filed Mar. 20, 1919. Serial No. 283,749. 3 Claims. (Cl. 123—169.)

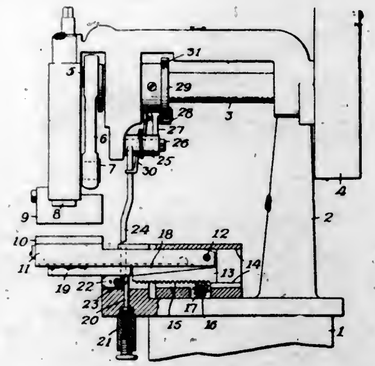


1. A spark plug having electrodes, and a conductor articularly suspended on horizontal portions at its ends with a portion interposed between the electrodes and free to oscillate across the end of the plug.

1,345,441. PROCESS OF DRAWING REFRACTORY METAL. JUNZO HISAMOTO, Nagoya City, Japan, assignor to Toyo-Kagaku-Yakin-Kabushiki-Kaisha (The Oriental Chemical Metallurgic Company, Limited), Tokyo, Japan. Filed Apr. 24, 1919. Serial No. 292,405. 2 Claims. (Cl. 205—21.)

1. The method of drawing refractory metal to a filamentary diameter which consists in surrounding a refractory slug of metal with a refractory oxid, placing these evenly in a metal tube, drawing the tube and contents to a filamentary size and removing the tube and oxid from the inclosed refractory metal.

1,345,442. SAFETY DEVICE. CLARENCE W. HOBBS, Worcester, Mass.; Clarence W. Hobbs, Jr., and Samuel T. Hobbs administrators of said Clarence W. Hobbs, deceased. Filed Oct. 2, 1916, Serial No. 123,229. Renewed Mar. 4, 1920. Serial No. 363,287. 8 Claims. (Cl. 74—46.)



1. In a machine of the class described, a yieldable stationary work engaging member, a reciprocating work engaging member coöperating with said yieldable member, means for actuating said reciprocating member, and means operable by said actuating means for rendering said yieldable member rigid at a predetermined point in the movement of said reciprocating member.

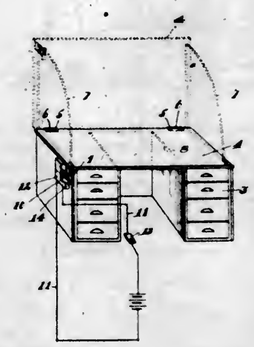
8. In a machine of the class described, a pair of coöperating pressing members, one of said members being yieldably supported, and means responsive to the movement of the other member for procuring the unyielding support of said first member.

1,345,443. SCREWDRIVER. HENRY HOOD, Philadelphia, Pa. Filed July 27, 1918. Serial No. 246,983. 1 Claim. (Cl. 145—50.)



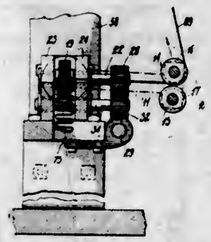
A tool comprising a handle elliptical in cross section, a projection at each end having the shape of an elliptical conical frustum, ferrules each having a bore and an elliptical chamber gradually increasing in size to correspond to the shape of the projections, one of said ferrules being mounted on each end of the handle and inclosing the projections and a blade having a shank passing entirely through the handle and ferrules, said ferrules being fixed to the shank for attaching the handle thereto.

1,345,444. BURGLAR-PROTECTOR. AARON HORVITZ, Chicago, Ill. Original application filed Apr. 12, 1917, Serial No. 161,614. Divided and this application filed June 10, 1918. Serial No. 239,209. 1 Claim. (Cl. 45—6.)



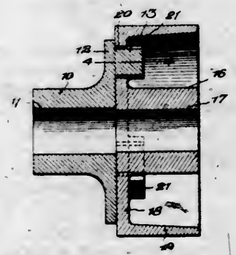
A desk comprising a body having a rearwardly and upwardly opening recess adapted to accommodate the user of the desk; a swingingly mounted top on said desk body adapted to assume either horizontal or vertical positions, said top, when swung to vertical position, exposing said recess to permit of the entrance of the desk user therein; means for releasably holding said top in horizontal position; means for automatically swinging said top to vertical position when the same is released; and leaves carried by the lateral edges of said top and adapted, when said top is moved to vertical position, to assume positions at the sides of said recess to afford lateral protection for the occupant of said recess, substantially as described.

1,345,445. MACHINE FOR CRIMPING WIRE. ALBERT H. JOHNSON, Washington, D. C., assignor to National Electrical Supply Company, Washington, D. C., a Corporation of Virginia. Filed Jan. 31, 1920. Serial No. 352,994. 10 Claims. (Cl. 140—105.)



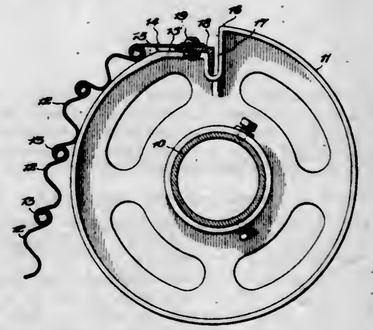
1. A wire crimping machine, comprising a pair of rollers adapted to receive and hold the wire to be crimped, an oscillating crimping arm arranged near said rollers, said arm being provided with wire receiving means whereby the wire is bent to either side of the rollers and crimped, means for oscillating said arm, and means for intermittently rotating said rollers.

1,345,446. SHAFT-COUPLING. HOWARD A. JOHNSON, Norfolk, Va. Filed Apr. 3, 1919. Serial No. 287,275. 3 Claims. (Cl. 64—101.)



1. As an article of manufacture, a coupling member comprising a hub having a radial flange at one end thereof, said flange formed with a circular series of apertures extending therethrough, and bearing wings at the sides of said apertures, the inner surfaces of said wings being flush with the sides bounding said apertures.

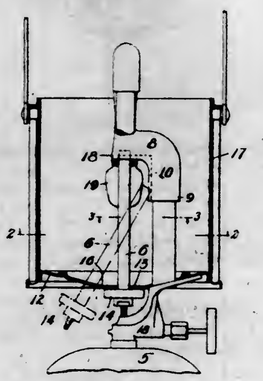
1,345,447. ROLLING DOOR. HOWARD A. JOHNSON, Norfolk, Va. Filed May 24, 1919. Serial No. 299,476. 6 Claims. (Cl. 189—56.)



2. A rolling door construction including in combination a head shaft, spaced wheels secured to said shaft, each

wheel having a transverse slot in its periphery, an angle iron disposed parallel to the shaft with one leg in the slot of the wheels, a flexible door, and pins securing the upper member of the door to the other leg of the angle, the number of pins being greater than the number of wheels.

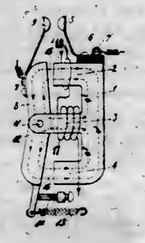
1,345,448. VAPORIZER-GUIDE. ADOLPH G. KAUFMAN, New York, N. Y. Filed Sept. 12, 1919. Serial No. 323,372. 7 Claims. (Cl. 67—50.)



1. A burner head for an incandescent light having a guide for the vaporizer extending vertically below the top of the mantle and laterally from the vertical portion to the vaporizer entrance in the burner head.

1,345,449. [WITHDRAWN.]

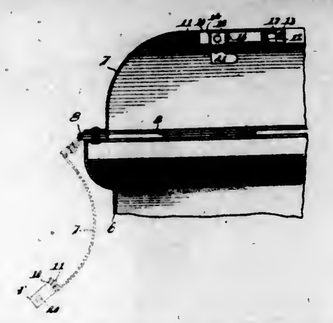
1,345,450. ELECTROMAGNET. LOUIS LARSEN, Brooklyn, N. Y., assignor to Sundh Electric Company, New York, N. Y., a Corporation of New York. Filed Jan. 2, 1918. Serial No. 209,842. 29 Claims. (Cl. 200—94.)



1. An electromagnet comprising a magnetizable member and means for producing therein from the same electric current magnetic forces which are of relative values varying with changes in the exciting current and are counteracting at one pole of said member.

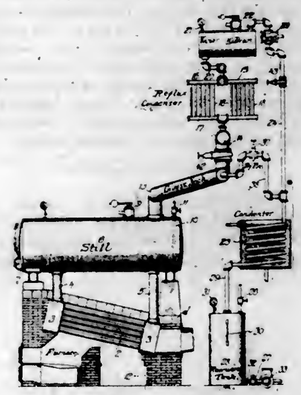
1,345,451. LOCK FOR BURIAL-CASKETS. FRED LUNDBERG, Chicago, Ill. Filed Dec. 28, 1917. Serial No. 209,276. 3 Claims. (Cl. 27—16.)

1. In a burial casket provided with hinged wall portions disposed at right angles to each other, means for locking said wall portions in closed relation with each other, comprising a slotted lug projecting perpendicularly from one edge of one of said wall portions; a socket on the other wall portion adapted to snugly receive said lug when said wall portions are in closed positions; and a rearwardly yieldable stud projecting into one side of said socket for



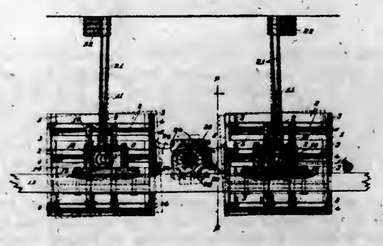
engagement with said slotted lug, substantially as described.

1,345,452. PROCESS OF TREATING HYDROCARBONS. LOREN W. MCOMBER, Milwaukee, Wis., assignor of one-half to Charles B. Belknap, Detroit, Mich. Filed Feb. 24, 1916. Serial No. 80,274. 2 Claims. (Cl. 196—25.)



1. The process of treating petroleum oil to produce a gasolene-like product which comprises subjecting the oil to the action of heat in a still while under under a pressure in excess of approximately 60 pounds per square inch, and without materially releasing this pressure subjecting it to a condensing action while under a still higher pressure.

1,345,453. COAL-SEPARATOR. WILLIAM M. MACFARLANE, Scranton, Pa. Filed Mar. 30, 1917. Serial No. 158,543. 14 Claims. (Cl. 83—56.)



1. In a device of the class described, a screen, trunnions at the ends of said screen intermediate the top and bottom

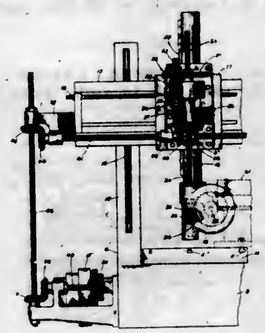
thereof, bearings for said trunnions permitting both transverse and oscillatory movement and means for imparting transverse and oscillatory movement to said screen, substantially as described.

1,345,454. TRANSPORTING AND ELEVATING APPARATUS. CHARLES MASCART, Croissy-sur-Seine, France. Filed Aug. 4, 1917. Serial No. 184,462. 3 Claims. (Cl. 193—4.)



1. In a machine of the class described, the combination with an endless conveyer belt, of a plurality of rollers for supporting the same, rollers for turning the edges of the belt away from the supporting rollers, a covering belt, and yieldably mounted rollers tending to force the covering belt against the conveyer belt.

1,345,455. BORING-MACHINE ATTACHMENT. EZRA B. MEAD, Ottumwa, Iowa. Filed Aug. 4, 1915. Serial No. 43,512. 8 Claims. (Cl. 90—4.)



1. The combination with a boring machine having a revoluble table and a horizontally extending rail and adapted to turn, bore and face gear blanks; of an attachment therefor for cutting the teeth of the gear blanks without removing or resetting the blanks comprising a carriage slidably mounted on the rail, a vertically movable ram connected to the carriage, a hob cutter carried by the ram, and a driving connection between the hob cutter and the boring machine for rotating and moving the hob vertically at a rate of speed rotation of the table.

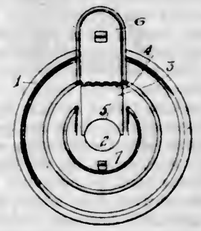
1,345,456. CORN-PULP REMOVER. WALTER OLCOTT, South Manchester, Conn. Filed Mar. 30, 1920. Serial No. 369,922. 1 Claim. (Cl. 146—7.)

A corn pulp remover comprising a head having flanges approximately at right angles to each other, one of the flanges being in front of the other as the head is moved along on the cob, the front flange being furnished with a row of teeth disposed in arcuate order, the fronts of the teeth having acute cutting edges to cut the kernels of corn on such movement, the back flange having a longi-



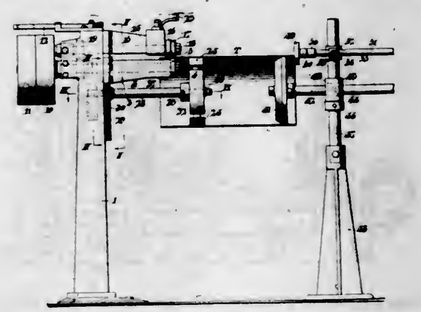
tudinal concavity in its under edge, and acting to squeeze the pulp from the kernels after they have been cut on such movement, said back flange having a rearwardly-extending tang at practically right angles to the line of movement of the head.

1,345,457. COVER FOR COOKING VESSELS. EMIL OLSON, Rochester, N. Y. Filed Aug. 16, 1919. Serial No. 318,035. 5 Claims. (Cl. 53—8.)



1. A combined cover and splash guard comprising a cover member having an elongated opening intersecting the center of said cover and projecting farther from the center on one side than the other, means for closing said opening, and separate means for covering the end of the opening farthest removed from the center to restrict the opening to the center of the cover.

1,345,458. DEVICE FOR CUTTING TUBES. JAMES F. PIERCE, Glynrich, Del., assignor to American Vulcanized Fibre Co., Wilmington, Del., a Corporation of Delaware. Filed Mar. 30, 1917. Serial No. 158,766. 6 Claims. (Cl. 164—69.)



1. A tube cutting machine including in combination, a supporting frame, a rotatable shaft mounted in said supporting frame, a cutting disk mounted on said shaft, a second rotatable shaft pivotally mounted in the supporting frame and capable of being moved toward and from the first named shaft, a cutting disk mounted on the second named shaft and coöperating with the disk on the first named shaft, a supporting bracket for the movable shaft, and a hand wheel for adjusting said bracket vertically to move the shafts toward and from each other.

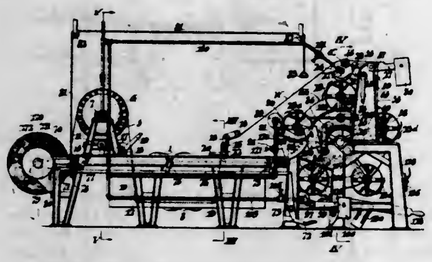
2. A tube cutting machine including in combination, a supporting frame, a rotatable shaft mounted in said supporting frame, a cutting disk mounted on said shaft, a second rotatable shaft pivotally mounted in the supporting frame and capable of being moved toward and from the first named shaft, a cutting disk mounted on the second named shaft and coöperating with the disk on the first named shaft, a supporting bracket for the movable shaft, a hand wheel for adjusting said bracket vertically to move the shafts toward and from each other, and a yielding feed roll carried by the movable shaft and opposed to and coöperating with the disk on the first named shaft for feeding the tube to the cutting disks.

3. A tube cutting machine including in combination, cooperative cutting disks, means for moving said cutting disks toward and from each other to receive the work therebetween, a rotatable clamping device for supporting the tube to be trimmed, said clamping device including radially movable segments for engaging the inner face of the tube, springs for moving said segments toward the center of the clamping device, expanding dogs for moving said segments outwardly to clamp the tube, said dogs being arranged to hold the clamping device expanded, and manually controlled means for moving the dogs.

4. A tube cutting machine including in combination, a supporting frame, cutting disks mounted on said supporting frame, an expansible clamping device for engaging the inner face of the tube and supporting the same horizontally, said clamping device being rotatably mounted so that the tube may be turned as it is trimmed, means cooperating with the cutting disks for feeding the tube to said cutting disks, and a supporting wheel for guiding and supporting the outer end of the tube.

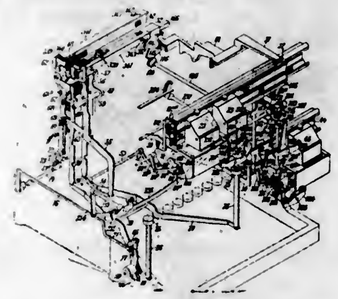
5. A tube cutting machine including in combination, a supporting frame, cutting disks mounted on said supporting frame, an expansible clamping device for engaging the inner face of the tube and supporting the same horizontally, said clamping device being rotatably mounted so that the tube may be turned as it is trimmed, means cooperating with the cutting disks for feeding the tube to said cutting disks, a supporting wheel for guiding and supporting the outer end of the tube, and a gage for engaging the outer end of the tube for determining the length thereof.

1,345,459. APPARATUS FOR FORMING TUBES. JAMES F. PIERCE, Glynrich, Del., assignor to American Vulcanized Fibre Co., Wilmington, Del., a Corporation of Delaware. Filed Mar. 30, 1917. Serial No. 158,770. 11 Claims. (Cl. 93—81.)



3. An apparatus for forming tubes, comprising means for supplying a web of material, a plurality of mandrels on which the web is wound to form tubes, mechanism for rotating a mandrel, means whereby said mandrels may be brought one after another into operative position and operated for winding the web thereon, and means for releasing the mandrels from the winding mechanism when a measured amount of the web has been wound thereon, and means for rolling the formed tubes on one or more mandrels while the web is being wound on another mandrel.

1,345,460. COMBINED TYPEWRITING AND COMPUTING MACHINE. HENRY L. PITMAN, Brooklyn, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1917. Serial No. 186,098. 67 Claims. (Cl. 235—59.)

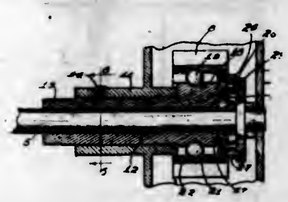


1. The combination with a traveling typewriter carriage, of a series of tabulating stops for positioning said carriage, a cross-adding device, a series of stops for positioning said cross-adding device, and key-operated means for setting both sets of stops.

17. In a computing machine, the combination with a traveling typewriter carriage including a totalizer, of a separate computing carriage including a totalizer, a separate master wheel for each totalizer, means for gearing said master wheels together, carry-over devices for each of said totalizers, each including an alining device adapted to take up lost motion in the carry-over devices for each of said totalizers, and connections whereby one of said alining devices is caused to positively operate the other.

36. In a typewriting machine, the combination of normally unset members at letter-space positions apart but adapted to be individually set, and means for setting a plurality of said members to effective positions simultaneously.

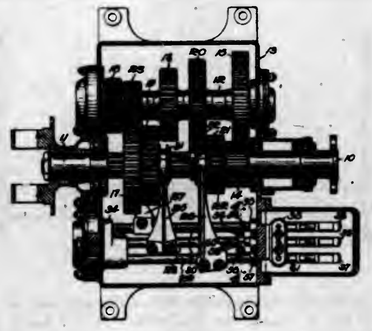
1,345,461. BELT-TIGHTENER. CHARLES L. RAYFIELD, Chicago, Ill. Filed Mar. 19, 1918. Serial No. 223,258. 5 Claims. (Cl. 64—53.)



1. The combination of a rotary shaft, a normally fixed eccentric adjustable circularly thereon, a rotary member mounted on said eccentric, a disk secured to said shaft and rotatable therewith, and means disposed between said rotary member and disk for imparting motion from one of said parts to the other in any position of adjustment of said eccentric.

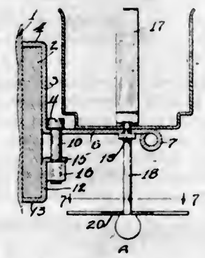
1,345,462. POWER-TRANSMITTING MECHANISM. DELMAR G. ROOS, Bridgeport, Conn., assignor to The Locomobile Company of America, Bridgeport, Conn., a Corporation of West Virginia. Filed May 5, 1919. Serial No. 294,719. 6 Claims. (Cl. 74—58.)

1. In a power-transmitting mechanism, the combination of a gear set comprising a plurality of gears affording four forward speeds and reverse, means for operating said gear set, including three sliding rods, and swinging means operated by any one of said rods upon lengthwise move-



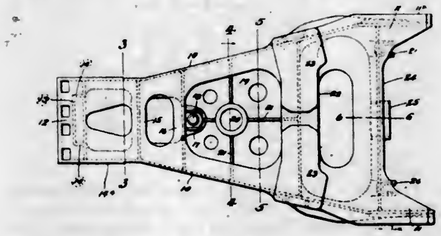
ment thereof to lock the remaining two rods against lengthwise movement.

1,345,463. ADJUSTABLE DETACHABLE ROD AND FIXTURE SUPPORT. DAVID E. SANDBERG, Detroit, Mich. Filed Apr. 24, 1919. Serial No. 292,275. 2 Claims. (Cl. 248—20.)



2. A fixture support comprising an angled member adapted to engage a supporting molding, an apertured horizontal projecting arm formed integrally on the angled member, and an eye on the outer end of the horizontal arm, formed by bending the outer end of said arm downwardly and inwardly, said eye adapting the support to engage a rod.

1,345,464. LOCOMOTIVE FRONT-END FRAME. WILLIAM M. SHEEHAN, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Sept. 26, 1918. Serial No. 255,779. 16 Claims. (Cl. 105—172.)



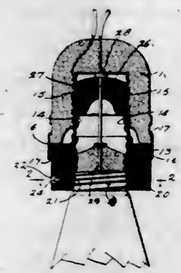
1. As a new article of manufacture, a locomotive front end frame formed in a single piece and comprising a pair of side members which gradually converge toward their forward ends.

1,345,465. HYDRANT. WILLIAM S. SNYDER, Nashville, Tenn. Filed July 3, 1919. Serial No. 308,394. 4 Claims. (Cl. 137—13.)



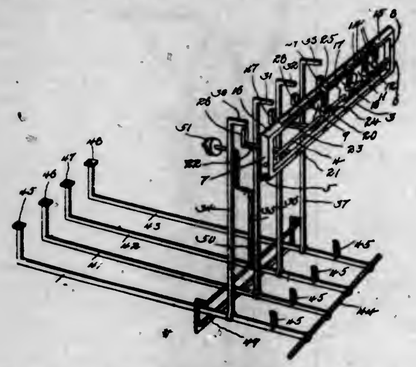
1. A hydrant comprising a union for connection with the main, said union having at its upper end a transverse partition provided with a central opening, a tubular valve slidable in the opening and having lateral ports, a spring normally pressing the valve upward to bring the port above the partition and to prevent the flow of water into and through the valve, and the lower end of the valve being closed, an extension connected with the upper end of the valve and having a beveled seat at its upper end, a hose connection having its end beveled to engage the seat, and a casing inclosing the valve, the spring, and the extension and having an opening for receiving the connection, said connection and extension having interengaging means for holding the valve open.

1,345,466. INCANDESCENT-LAMP-PROTECTING DEVICE. HOLROYD FITZWILLIAM WAY, Oregon City, Oreg. Filed June 5, 1919. Serial No. 301,909. 7 Claims. (Cl. 173—356.)



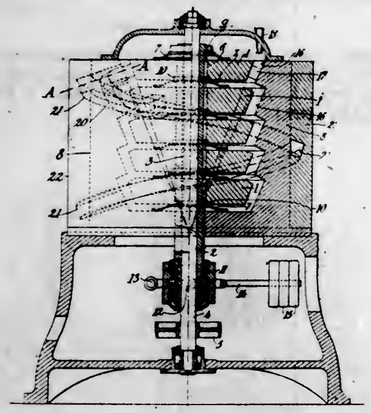
4. The combination with a lamp socket, an incandescent bulb having a threaded base, of a threaded tube, one end of which receives the base of the lamp bulb and is provided with a surrounding collar, means in connection with the collar for securing the same and the said tube to the lamp base, a second threaded tube, one end of which screws within the lamp socket and is provided with an internally supported plug, an axial electrode supported by the said plug, a collar secured around the opposite end of the last mentioned tube at the open end of the lamp socket, and means for securing said last mentioned collar to the lamp socket, all for the purpose described.

1,345,467. TYPEWRITER TABULATOR DEVICE. WILLIAM L. WHITE, Birmingham, Ala., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 27, 1917. Serial No. 145,025. 9 Claims. (Cl. 197—177.)



1. In a typewriting machine, the combination with a traveling carriage having a carriage stop, of a series of column-stops for coöperating with the carriage stop, a frame comprising lugs on which said column-stops are settable, a pivot for said frame, a series of keys, and a series of arms for rocking said frame toward the carriage stop and adapted to be moved by said keys, said arms variously positioned relatively to said lugs to have a variable amount of lost-motion to variably rock said frame to variably arrest the carriage by the stops.

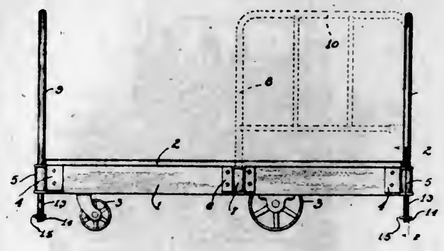
1,345,468. MACHINE FOR GRINDING CONICAL ROLLERS. SVEN GUSTAF WINGQUIST and BENGT WIKTOR FJELLMAN, Gottenborg, Sweden, assignors to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Oct. 18, 1919. Serial No. 331,736. 11 Claims. (Cl. 51—130.)



1. Machine for grinding the superficies of conical rollers, comprising outer and inner grinding means forming a plurality of annular grinding chambers having each an outer and inner conical grinding face, and means for causing the rollers to circulate from one such chamber to another.

1,345,469. TRUCK. GUILFORD S. WOOD, Chicago, Ill. Filed June 29, 1917. Serial No. 177,668. 4 Claims. (Cl. 280—49.)

1. The combination with a truck having apertured sockets at the corners and sides thereof, of a gate comprising rail members pivoted in the corner sockets, transverse members connecting the rail members, a shaft extension in one rail member at each end of the truck, said shaft extending through the apertured socket and movable



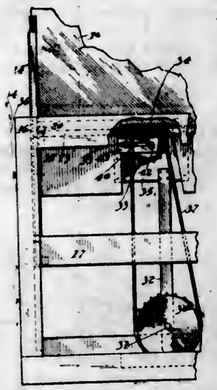
therein whereby the opposite end of the gate may be lifted and swung to engage another socket on the truck frame, and means removably secured to the shaft adapted to prevent the shaft from being lifted out of the socket.

1,345,470. REMOVABLE TRUCK-NOSE. GUILFORD S. WOOD, Chicago, Ill. Filed June 13, 1918. Serial No. 239,709. 10 Claims. (Cl. 280—56.)



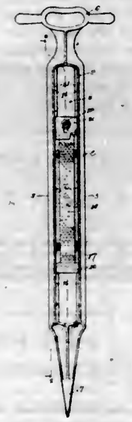
7. The combination with tubular truck frame sills, of a nose, passaged shanks thereon projecting into said sills, resilient means integrally formed on said shanks, wedges associated with said shanks, and means for drawing said wedges into said shanks for forcing said resilient means apart and into locking engagement with said sills to removably hold said nose in position.

1,345,471. WINDOW-FRAME. CARL E. ANDERSON, Maywood, Ill. Filed May 23, 1918. Serial No. 236,090. 15 Claims. (Cl. 268—4.)



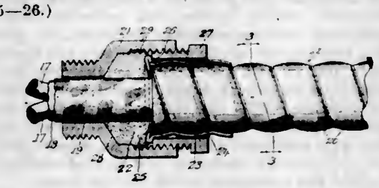
1. A window-frame structure comprising, in combination, a movable window-inclosing frame, a movable frame inclosing said window-frame, and means to move said first frame in said second frame to any one of a desired plurality of positions whereby the relative positions of the two frames with respect to each other will be changed for each of said positions, said frames being maintained in any of the said positions to which they are moved.

1,345,472. FILE OR BRUSH HOLDER. ERNST ANHEUSER, Racine, Wis. Filed Apr. 12, 1919. Serial No. 289,639. 4 Claims. (Cl. 29—80.)



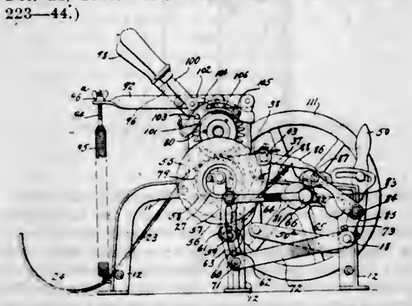
1. A tool holder, comprising an elongated frame, a tool carrying plate movable longitudinally on the frame, and means for securing the plate in adjusted position on the frame.

1,345,473. WATER-TIGHT CONNECTION FOR ELECTRICAL CONDUCTORS. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 18, 1918. Serial No. 258,747. 11 Claims. (Cl. 285—26.)



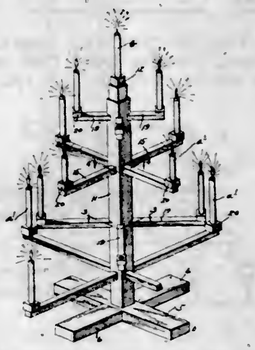
2. A device for connecting a helically-armored cable with a box, comprising a stuffing-box provided with means for securing it to said first box; a packing in said stuffing-box; a connecting member having a helical portion for screwing onto said helical armor; and means for securing said connecting member to said stuffing-box.

1,345,474. PLAITING-MACHINE. HERMAN BISCHOFF, New York, N. Y., assignor to Defiance Button Machine Co., New York, N. Y., a Corporation of New York. Filed Dec. 24, 1917. Serial No. 208,553. 28 Claims. (Cl. 223—44.)



1. In a plaiting machine, the combination with a reciprocatory plaiting blade, and material-feeding means, of means for effecting a variation in the stroke of said plaiting blade, means for effecting a variation in the motion of the material-feeding means, and means controllable at will for simultaneously shifting the plaiting blade feed means and the material feed means.

1,345,475. KNOCKDOWN CHRISTMAS TREE. CHARLES J. CARLSTRAND, Minneapolis, Minn. Filed June 9, 1919. Serial No. 302,732. 1 Claim. (Cl. 41—15.)

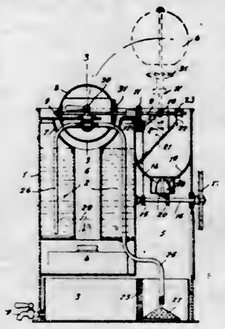


An artificial knock down Christmas tree comprising a base made up of interlocked members, a trunk that is square in cross section and is provided at its lower ends with a tenon adapted to fit a mortise in one of the base members, said trunk at different vertical points having horizontal groups of mortises in its flat sides, said trunk further having its corner edges provided with mortises arranged in horizontal groups between said first groups, arms or branch members having tenons on their inner ends for interlocking engagement with the mortises above noted in said trunk, block like candle sticks applied to the outer ends of said branches or arms.

1,345,476. WATERPROOF PAPER AND PROCESS OF PRODUCING THE SAME. ALBERT L. CLAPP, Marblehead, Mass. Filed July 11, 1918. Serial No. 244,477. 11 Claims. (Cl. 92—21.)

1. A process of producing waterproof paper, which comprises mixing a soluble soap with fibrous paper stock and precipitating calcium soap therefrom in and throughout the stock, by the addition of calcium hydroxid to said stock, and then precipitating aluminum resinate in said stock.

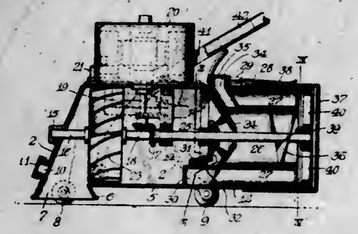
1,345,477. APPARATUS FOR ROASTING AND PREPARING COFFEE IN CUPS. VINCENZO CAPPELLI, Rome, Italy. Filed Jan. 2, 1919. Serial No. 269,352. 1 Claim. (Cl. 53—3.)



In a coffee making machine, an inclosing case, an oscillating roaster, a grinder, a water boiler, a brewer,

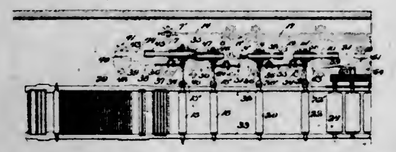
means for driving the roaster and the grinder from the same source of energy, a burner to heat the roaster and the water boiler, a tube to conduct the boiling water from the boiler to the brewer, and a device to bring the roaster into horizontal position above the grinder to discharge its contents into the grinder, this device comprising a spiral spring arranged to draw the roaster upward when the coffee has lost part of its weight during the roasting process, and means to regulate the tension of the spring.

1,345,478. VACUUM CLEANING APPARATUS. ELZA T. S. CLIFFE, Mansfield, Ohio. Filed Mar. 31, 1919. Serial No. 286,526. 7 Claims. (Cl. 183—8.)



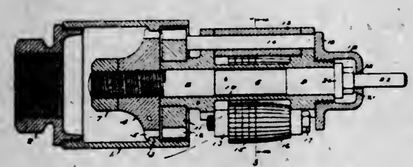
1. A vacuum cleaning apparatus comprising a casing adapted to receive dirt, a container slidable on said casing, a partition in said casing having an axial opening through which dirt passes from said casing to said container, and means adapted for compressing the dirt in said container, and means extending through the opening of said partition for operating said compressing means.

1,345,479. DRIVING MECHANISM FOR PAPER-MAKING MACHINES. BENJAMIN DENVER COPPAGE, Wilmington, Del. Filed Nov. 22, 1916. Serial No. 132,848. 16 Claims. (Cl. 74—21.)



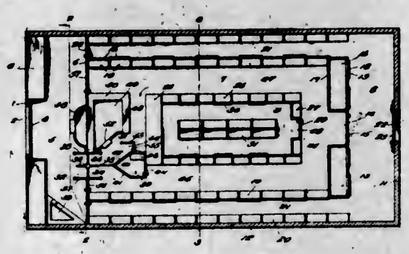
1. The combination in a paper-making machine, of heavy coöperating rotatable paper-engaging rolls, a manually controllable clutch having its driven element directly connected with one of said rolls, a fly-wheel rigidly connected with the driving element of the clutch, a driving shaft adapted to be connected with a prime mover, and a variable speed power connection between the driving shaft and the fly-wheel.

1,345,480. TUBE-CLEANER. PHILIP J. DARLINGTON, Hartford, Conn., assignor to The Roto Company, Hartford, Conn., a Corporation of Connecticut. Filed Apr. 30, 1919. Serial No. 293,591. 5 Claims. (Cl. 83—64.)



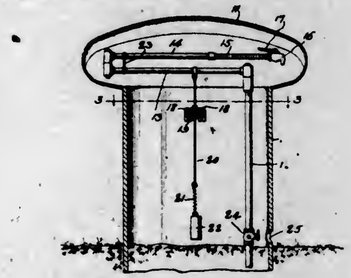
1. A tube cleaner having a tubular casing, a nozzle plate with turbine ports fastened in the casing near the front end, an axle with widely separated journal bearings and forward thrust collar screwed into the center of the nozzle plate, a sleeve mounted upon and supported near each end by the bearings on the axle, arms projecting laterally from near each end of the sleeve, pivot pins extending parallel with the axle between the respective arms, yokes mounted upon the pivot pins, studs extending parallel with the pivot pin and connecting the free ends of the yokes, cutters loosely mounted upon said studs, and a rotor mounted upon the rear end of the sleeve.

1,345,481. SELF-SERVING STORE. FREDERICK W. DAVIS, Dayton, Ohio. Filed Apr. 12, 1919. Serial No. 289,635. 16 Claims. (Cl. 211—8.)



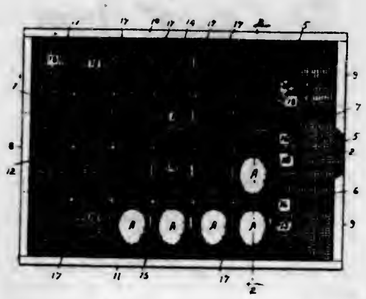
8. A store service arrangement comprising a salesroom, a main stockroom partly surrounding the salesroom, article storage cabinets or the like defining certain of the walls of the salesroom and extending between the salesroom and stockroom and accessible from both rooms, article storage means within the salesroom arranged in hollow formation, the inclosure defined by the last mentioned article storage means constituting an auxiliary stockroom, the last mentioned article storage means being accessible from both the salesroom and the auxiliary stockroom, an aisle extending continuously within the salesroom and having an entrance and an exit and flanked by the first and last mentioned article storage means, duplicate article storage means arranged within the main stockroom and located opposite certain of the first mentioned article storage means, and duplicate article storage means arranged within the auxiliary stockroom and located opposite certain of the last mentioned article storage means.

1,345,482. WATER-STATION. FREDERICK W. DAVIS, Dayton, Ohio. Filed June 26, 1919. Serial No. 306,884. 6 Claims. (Cl. 137—13.)



1. A device of the character described including a casing provided with a canopy having its intermediate portion spaced upwardly from the adjacent portion of the casing thereby forming openings on opposite sides of the casing, a water supply pipe, a discharge pipe in communication with said water supply pipe, means for controlling the flow of water through the discharge pipe, and means for normally holding the discharge pipe beneath said canopy.

1,345,483. EGG-TRAY. CHARLES S. EWRY, Portland, Ind. Filed Aug. 27, 1919. Serial No. 320,095. 2 Claims. (Cl. 119—44.)



1. An egg tray comprising in combination, a main frame, a screen bottom for said frame, a guard extending up from the main frame, an inner frame slidable only forward and backward in the main frame and resting on said screen bottom, partitions dividing the space in the inner frame into a plurality of individual egg compartments, an oval lining secured in each of said compartments and conforming to the shape of an egg and adapted to extend entirely around an egg and of a size only slightly greater than the egg to be located therein, the eggs located in their respective oval linings being supported on said screen bottom, and the limit of movement of the inner frame being such as to give the eggs located therein a half turn when the inner frame is moved to its limit either forward or backward, all substantially as shown and described.

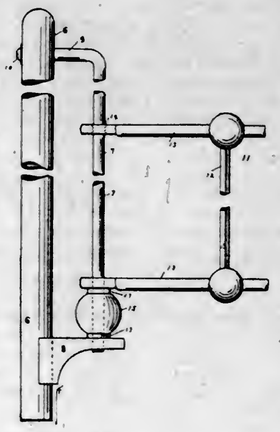
1,345,484. ELECTRICAL COIL. ARTHUR W. FISHER, Wilkinsburg, and CLARENCE S. SNAVELY, Pittsburgh, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 29, 1919. Serial No. 273,732. 4 Claims. (Cl. 175—21.)



1. The method of constructing a wire coil on a flangeless tube, which consists in attaching two flexible washers to the tube one at each end, winding the wire on the tube, and subsequently wrapping each washer over the adjacent end and cylindrical surface of the coil and attaching it to the cylindrical surface of the coil.

1,345,485. CUSHION FOR SLIDING-SIDE CRIBS. WILLIAM B. FOSTER, Utica, N. Y., assignor to Foster Brothers Manufacturing Company, Utica, N. Y., a Corporation. Filed Apr. 16, 1919. Serial No. 290,519. 2 Claims. (Cl. 5—58.)

1. A cushioning device adapted to be interposed between approaching members, consisting of a hollow, air-filled, collapsible and resilient member having two oppositely disposed openings and a guide rod extending through said openings and holding said collapsible member in position but allowing contraction and expansion thereof lengthwise of said rod, said hollow member fitting said guide rod so as to allow the gradual escape of air therefrom as the member is compressed and to allow



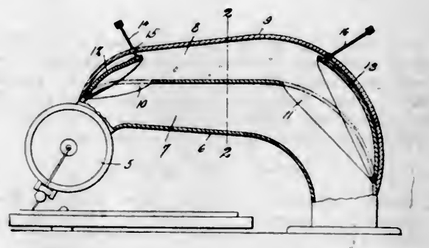
the gradual inflow of air thereto when the weight is removed and the cushion expands.

1,345,486. KEY-MOUNT FOR WIND MUSICAL INSTRUMENTS. EDWARD J. GULICK, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a Corporation of Indiana. Filed Aug. 21, 1918. Serial No. 250,769. 3 Claims. (Cl. 84—7.)



1. In a musical instrument of the class described, a key adapted for pivotal movement; a transversely apertured and furcated key bearing member or standard, the furcation whereof is normally contractile; a bearing pin adjustably mounted within the aperture of said bearing standard, the adjustment of said pin being maintained by the contractile force exerted thereon by the prongs of the furcated bearing standard; and a cone and cup bearing connection between said key and said pin.

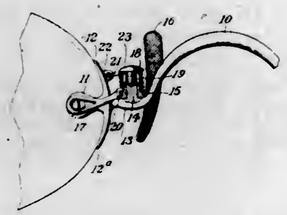
1,345,487. TONE-ARM FOR TALKING-MACHINES. ERLE H. HAND, Baltimore, Md. Filed Nov. 5, 1919. Serial No. 335,835. 1 Claim. (Cl. 274—23.)



A talking machine tone arm carrying a sound box and having main and auxiliary sound passages, the wall of

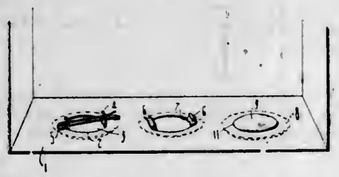
the main passage having ports establishing communication between said passage and the auxiliary passage, one of the ports being at the end of the tone arm carrying the sound box, and the other port being located at the outlet end of the tone arm, and closures for the ports adapted to seat therein to close the same, and when thus seated said closures forming continuations of the wall of the main passage in which the ports are located, to maintain an uninterrupted continuity of said wall, and said closures being operable to swing into the auxiliary passage and open the ports and act as sound wave deflectors, the closure for the port adjacent to the sound box end of the tone arm opening away from the direction of the sound waves and deflecting into the auxiliary passage, and the other closure closing transversely of the sound waves and facing said waves when open for deflecting the same from the auxiliary passage back into the main passage.

1,345,488. FINGER-PIECE MOUNTING FOR EYEGLASSES. CHARLES M. HAYNES, Chillicothe, Ohio, assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Oct. 3, 1914. Serial No. 864,837. 4 Claims. (Cl. 88—50.)



2. Lens connecting means, a headless pivot post thereon, a fingerpiece lever having a tubular sleeve surrounding the pivot post, and a coiled spring surrounding the sleeve having one end anchored on the lever and the other end anchored on the lens holding means.

1,345,489. HOLE-CLOSURE. BRYSON DEXTER HORTON, Detroit, Mich. Filed Apr. 13, 1915. Serial No. 20,983. 5 Claims. (Cl. 247—7.)



4. A closure for an aperture in the wall of the switch casing comprising a sheet metal disk having an upstruck portion adapted to pass through the aperture from one side thereof, and means in engagement with said portion and adapted to engage the wall from the other side, said means comprising a cotter pin.

1,345,490. PUZZLE. JOHN E. HOY, Midland, Mich., assignor of one-half to Roland P. Place, Midland, Mich. Filed Dec. 29, 1919. Serial No. 347,917. 2 Claims. (Cl. 46—41.)

1. A puzzle consisting of a thin friable sheet of wood having its grain at substantially right angles to its surface so that it may readily be broken into a number of pieces, said sheet having a design on one side to facilitate reassembling the pieces in their original positions in the sheet after the pieces have been intermixed.

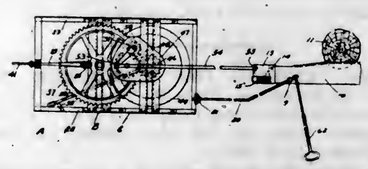


1,345,491. PUMP. GRANVILLE ALLISON HUMASON, Houston, Tex., assignor of one-half to John W. Parker, Houston, Tex. Filed Oct. 5, 1918. Serial No. 256,983. 3 Claims. (Cl. 103—54.)



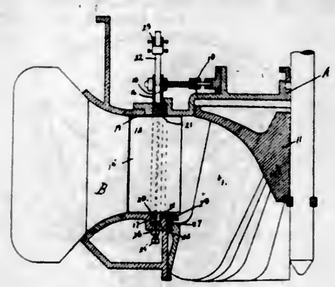
1. In a pump, the combination of a hollow pump rod, a hollow piston head attached thereto, four piston rods upon said piston head, two of said rods being hollow, a cylinder having four chambers in which the four piston rods reciprocate, valves in the two hollow piston rods, a valve chamber below said piston chamber and an upwardly opening valve in said valve chamber.

1,345,492. TREE-SAWING MACHINE. ROBIN H. IRVINE, Bay City, Mich. Filed June 30, 1917. Serial No. 177,917. 7 Claims. (Cl. 143—63.)



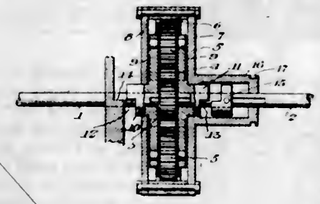
1. The combination of a head block having a slot and provided therein with a socket intersected by the slot, a saw pivoted in the slot and movable through a portion of the socket and a coiled spring mounted in the socket and arranged to bear against the saw and urge the same outwardly.

1,345,493. TURBINE WATER-WHEEL. ERIC ANTON JACOBSON, Lindsay, Ontario, Canada. Filed Apr. 8, 1919. Serial No. 288,536. 5 Claims. (Cl. 253—122.)



1. In a turbine water wheel comprising a casing, a water chamber, a passageway having adjustably positioned guide vanes therein, a runner suitably positioned within said passageway, said runner and said passageway being so constructed that said runner may be removed after removing the top wall without dismantling said passageway, and a removable non-rotatable guide ring between said passageway and said runner.

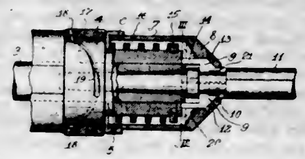
1,345,494. TRANSMISSION-GEARING. ANDREW J. KARL and BENJAMIN FRANKLIN WEBB, Sistersville, W. Va. Filed Feb. 28, 1919. Serial No. 279,688. 1 Claim. (Cl. 74—34.)



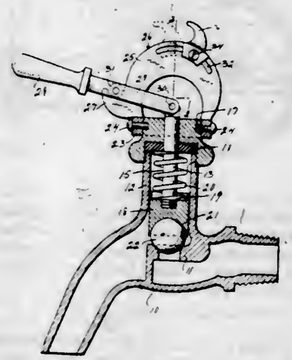
In combination with the driving and driven shafts arranged in end to end relation, a pinion carrier formed as a pair of disks secured in spaced relation and having planetary pinions journaled therebetween, said pinion carrier being freely revoluble and slidable upon said shaft at their meeting ends, hub portions formed on said disks and cut away to provide clutch members, a casing surrounding said pinion carrier and slidable therewith with respect to the shafts, an extension on said casing splined upon the driven shaft and formed for engagement by a shifting lever, a center gear confined between said disks and meshing with the planetary gears and splined upon the driving shaft, a ring gear on the inner periphery of said casing meshing with said planetary gears, a clutch member secured upon the driven shaft and engageable by the clutch member on the hub at one side of the pinion carrier when said casing and pinion carrier are shifted in one direction, and a stationary member engageable by the clutch members on the hub at the other side of the pinion carrier when the casing and pinion carrier are shifted in the other direction.

1,345,495. PNEUMATIC TOOL. MICHAEL D. KARLES, Delray, Mich. Filed Oct. 6, 1919. Serial No. 329,180. 2 Claims. (Cl. 121—32.)

1. The combination with a pneumatic tool barrel having a tappet therein and the outer end of said barrel provided with shoulders, of a cap slidable on one of said shoulders, a sleeve connected to said cap and having a conical head, clutch jaws in the head of said sleeve adapted to retain a tool in engagement with said tappet, a spring on said shoulder engaging said cap and adapted to hold said sleeve in a retracted position, and means on another shoulder of said tool barrel adapted for shifting said sleeve to release said clutch jaws.

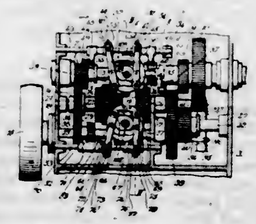


1,345,496. ADJUSTABLE SPIGOT OR FAUCET. JOHN M. KEELER, New Brighton, Pa., assignor of one-half to Charles R. Welsh, New Brighton, Pa. Filed Nov. 5, 1919. Serial No. 335,886. 16 Claims. (Cl. 251—132.)



7. A faucet having a body formed with an upwardly extending chamber and with a seat below said chamber, a bonnet engaging the top of said chamber, a valve stem extending through the bonnet and carrying a valve at its lower end coacting with the seat, a compression spring disposed in the chamber and urging the valve to a closed position, a vertically disposed cam mounted upon the bonnet and arching over the stem, the cam having an edge eccentric to the upper end of the stem, and a handle pivoted to the stem for movement in a vertical plane and having a member thereon engaging the edge face of the cam.

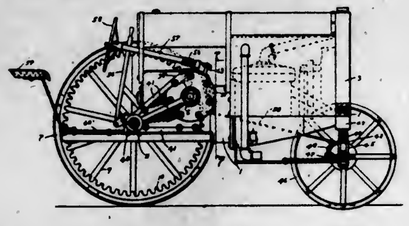
1,345,497. TOOTHED CHANGE-GEAR FOR DRIVING METAL-WORKING MACHINES. RICHARD A. KEMPIN, Rorschach, Switzerland. Filed June 11, 1919. Serial No. 303,396. 6 Claims. (Cl. 74—58.)



1. A toothed change-gear of the character described, comprising a driving shaft, a counter-member, means

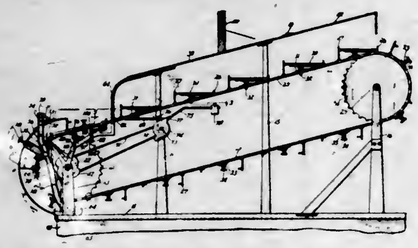
adapted to transmit the rotary movement of the driving shaft to said member, a spindle for fixing the cutting tool, means adapted to directly transmit the rotary movement of said counter-member to the spindle in order to rotate the latter at high speeds, a member loose on the spindle, means adapted to transmit the rotary movement of said counter-member to the member loose on the spindle, and gearing down means adapted to transmit the rotary movement imparted to the member loose on the spindle to the latter in order to rotate it at different speeds which are all lower than those imparted to the spindle when the latter receives its drive directly from the counter-member.

1,345,498. CONVERTIBLE CULTIVATOR-TRACTOR. ELMER B. MCCARTNEY, Minneapolis, Minn., assignor to Toro Motor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Oct. 31, 1919. Serial No. 334,871. 7 Claims. (Cl. 180—1.)



4. A convertible tractor comprising a frame, a power unit including power generating means, transmission and differential gearing and traction means in combination with interchangeable sets of supporting members adapted to be demountably secured to said frame to provide either a cultivator form or a traction form.

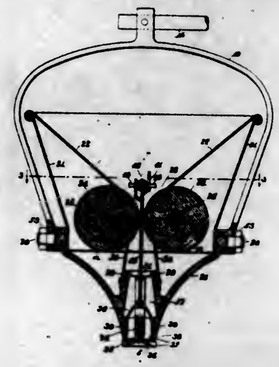
1,345,499. COIN-CONTROLLED VENDING-MACHINE. JOHN L. MEYFARTH, Chicago, Ill. Filed Feb. 15, 1918. Serial No. 217,320. 22 Claims. (Cl. 211—8.)



1. In a machine of the class described, in combination, a flexible food conveying means, means for stably placing plates of food thereon, a locking mechanism for said conveying means to prevent movement thereof, and a coin operated means actuated to unlock said mechanism whereby said conveying means will be permitted to travel varying distances to deliver one plate of food.

1,345,500. DOUGH-DROPPER FOR FRYING DOUGHNUTS. LEON MITCHELL, Dorchester, Mass. Filed Jan. 16, 1920. Serial No. 353,359. 15 Claims. (Cl. 107—14.)

1. In a device of the class described, a supported casing having an annular discharge opening in the bottom; an open bottomed dough-receiving hopper within the top thereof open at the bottom; feed rollers within said casing beneath said hopper and parallel with the opening in the bottom of said hopper adapted to eject dough through said discharge opening; means for deflecting the dough outwardly as it passes from said opening; and reciprocating means within said casing beneath said feed rollers whereby portions of said dough may be separated in annular form from the body of the dough ejected through said opening.

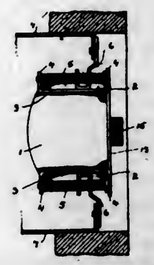


1,345,501. LATTICE-TRUSS. DENNIS W. MORRISON, Indiana Harbor, Ind. Filed Feb. 1, 1917. Serial No. 145,963. 1 Claim. (Cl. 108—23.)



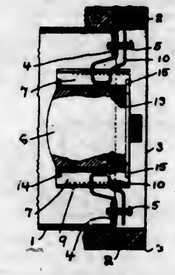
A truss comprising in combination a straight chord, an arched member secured thereto, diagonal braces extending from the center of said member to the end portions of the chord, and lattice members in each half of the truss, the members in each half crossing each other at right angles and the adjacent diagonal brace at an angle of forty-five degrees, whereby one set of members is inclined to the chord at an angle of less than forty-five degrees and the other set is inclined to the chord at an angle of more than forty-five degrees, the lattice members in one half of the truss converging toward the lattice members in the other half, the first set of members converging upwardly and the other set converging downwardly.

1,345,502. SWITCH OR RECEPTACLE BOX. WILLIAM J. NEWTON, Lynbrook, N. Y., assignor, by mesne assignments, to John G. Livingston, Woodmere, Long Island, N. Y. Filed Nov. 23, 1916. Serial No. 132,955. 11 Claims. (Cl. 247—19.)



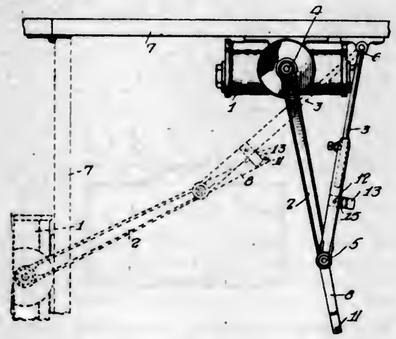
1. In a device of the kind described, a lug having a flat apertured end, and a U shaped apertured end, said flat end extending substantially parallel to the legs of the U.

1,345,503. SWITCH OR RECEPTACLE BOX. WILLIAM J. NEWTON, Lynbrook, N. Y., assignor, by mesne assignments, to John G. Livingston, Woodmere, Long Island, N. Y. Filed Dec. 5, 1916. Serial No. 135,135. 21 Claims. (Cl. 247—19.)



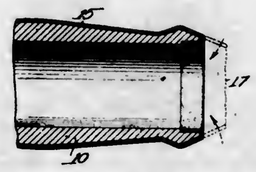
21. In a device of the kind described, a lug, a channel, within which said lug is adapted to slide, a fixed stop at the lower end of the channel and a removable cover projecting over the upper end of the channel.

1,345,504. DOOR-CLOSER. LEWIS C. NORTON, Chicago, Ill. Filed Mar. 18, 1918. Serial No. 223,148. 3 Claims. (Cl. 189—50.)



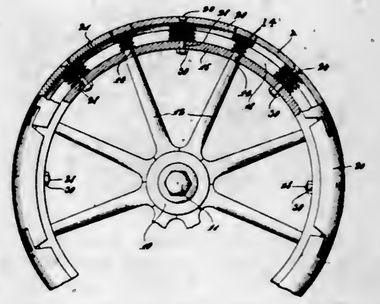
1. The combination with a door closer, including a pair of arms pivotally connected together, one of which is pivotally connected to the door frame and the other of which is pivotally connected to the door, means tending to move said arms from substantial alinement when the door is open toward substantial parallelism to close the door, one of said arms extending beyond the pivotal connection, and a fusible latch connecting said extension with the other arm to hold said arms in substantial alinement to prevent the door from closing.

1,345,505. HANDLE-GRIP. CHARLES A. PERSONS, Worcester, Mass. Filed Oct. 19, 1918. Serial No. 258,804. 1 Claim. (Cl. 208—126.)



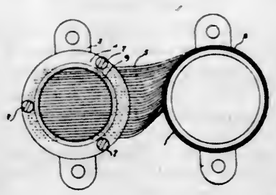
A handle grip comprising a shell having a cylindrical recess therein with one closed and one open end, said recess being annularly enlarged adjacent its open end, and a tubular casing for said shell formed of flexible material and closed at one end only, the opposite open end of said casing being folded inward and backward around the open end of said shell and being positioned in the annular recess in the open end thereof.

1,345,506. VEHICLE-WHEEL. NICK RENNER, Defiance, Ohio. Filed Nov. 16, 1918. Serial No. 262,784. 1 Claim. (Cl. 152—8.)



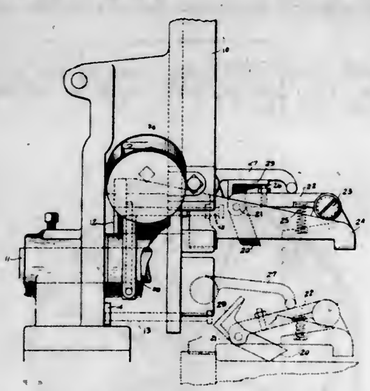
In a vehicle wheel having a plurality of flanged segmental tread elements circumjacent to the rim thereof, the combination of a hub having spokes radiating therefrom provided with shouldered outer ends, with a rigid flanged rim secured at the ends of said spokes, coiled compression springs secured to the shouldered outer ends of said spokes and resting against the inner faces of the tread elements, bolts having conical heads set flush with the periphery of the tread and passing through openings formed in said rim between each pair of spokes, nuts at the inner ends of said bolts for securing them in position, springs surrounding said bolts between said tread and rim, substantially as described and for the purpose set forth.

1,345,507. CHARGE-FORMING DEVICE FOR INTERNAL-COMBUSTION ENGINES. GEORGE A. RICHARDS, Pueblo, Colo. Filed Apr. 11, 1919. Serial No. 289,450. 2 Claims. (Cl. 123—122.)



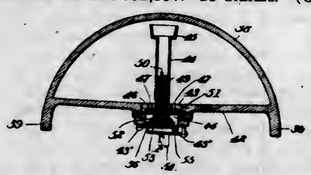
1. A device of the character described, including two annular rings so joined together as to hold rigidly, wires of high conductivity of heat, said wires extending across openings in said annular rings and forming a screen, said rings having extensions on the two outer faces thereof of proper size to fit into and between the intake manifold and intake port of an explosion or combustion engine, and method of removably securing same in this position between intake manifold and intake port of engine.

1,345,508. WEFT-DETECTING MECHANISM. EFFA H. RYON, Waltham, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 15, 1919. Serial No. 317,821. 12 Claims. (Cl. 139—85.)



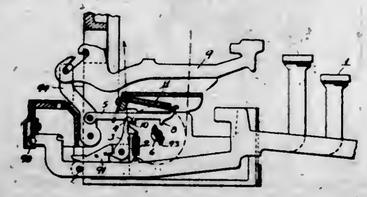
2. In a loom, a weft detector, a transferrer, and a pneumatic device actuated by said transferrer to give said detector a detecting movement.

1,345,509. FIRE-EXTINGUISHING DEVICE FOR FILM-CABINETS. EDWARD W. SALMON, Jr., Baltimore, Md., assignor to Hull, Salmon, Mfg. Co., Inc., Baltimore, Md. Filed June 19, 1916, Serial No. 104,436. Renewed Jan. 16, 1920. Serial No. 352,337. 13 Claims. (Cl. 169—2.)



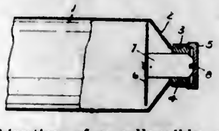
6. A film cabinet comprising spaced walls, formed of fire proof material, a closure for the cabinet, there being an opening formed in the closure, a cap mounted on the closure above said opening, a plug carried by the cap and projecting through said opening, said cap being adapted to contain a fire extinguishing material, and means carried by that portion of the plug which projects through the closure and adapted to be acted upon by heat to establish communication between the cap and the cabinet.

1,345,510. TYPEWRITING-MACHINE. CARL SCHLÜNS, Mehlis, Thuringia, Germany. Filed Nov. 9, 1915, Serial No. 60,584. Renewed Nov. 26, 1919. Serial No. 340,803. 7 Claims. (Cl. 197—17.)



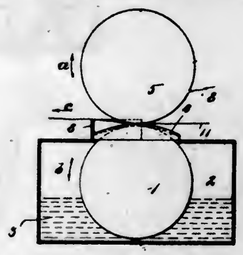
1. In a typewriting machine having a type bar, a key-lever and a prime mover; an intermediary member positively connected with said type bar, operating means connected with said prime mover for moving said intermediary member in one longitudinal direction and other means for moving said member in the opposite longitudinal direction, positioning means actuated by the key-lever for placing the intermediary member in position for engagement with said operating means, said positioning means immediately releasing said member upon the latter moving in longitudinal direction, said positioning means being held yieldingly in operative position.

1,345,511. COLLAPSIBLE CONTAINER. RALPH W. SHULTERS, Battle Creek, Mich. Filed Feb. 11, 1920. Serial No. 357,777. 4 Claims. (Cl. 221—60.)



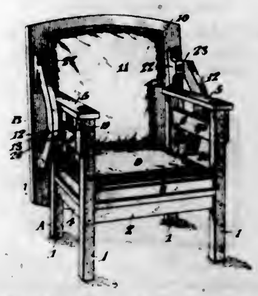
1. The combination of a collapsible container having a conical portion at its discharge end and a threaded neck with a discharge opening in the end thereof, a cap threaded to removably engage said neck, and a disk disposed within said container and adapted to seat on the conical portion thereof, said disk having an arm loosely disposed through said discharge opening to be engaged by said cap and unseated thereby, said arm being provided with a lug at its outer end engaging said neck to limit the inward movement of the disk.

1,345,512. CEMENT-APPLYING MACHINE. ABRAHAM SMOLKER, Chelsea, Mass. Filed Jan. 13, 1920. Serial No. 351,089. 6 Claims. (Cl. 91—51.)



1. In a cementing machine of the character described, in combination, a tank having a slotted top; a cement conveying roll vertically and rotatively mounted therein and extending through the top thereof; and a combined cement guard and work support attached to the top of the tank adjacent to and partly covering the top of the conveying roll.

1,345,513. CONVERTIBLE CHAIR. JEROME J. SOUTH, Nashville, Tenn. Filed Mar. 30, 1917. Serial No. 158,662. 18 Claims. (Cl. 155—6.)



1. A convertible chair comprising a stool part with upstanding legs having arm rests at their upper ends,

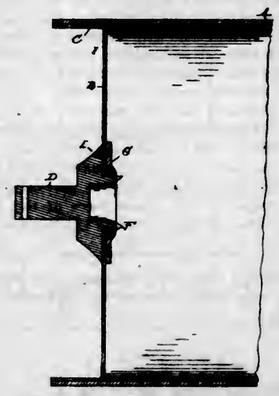
and rails below the arm rests, a back portion also constituting a table top, said back portion having brackets on opposite sides fast to one face thereof, hinge connections between the brackets and the rails located nearer to one end of the rails than to the other and also to one side of the mid portion of the brackets, and stop means at a higher point than the hinge connections.

1,345,514. VENTILATOR. JOHN STEPIN, Derby, Conn. Filed June 19, 1919. Serial No. 305,449. 1 Claim. (Cl. 53—8.)



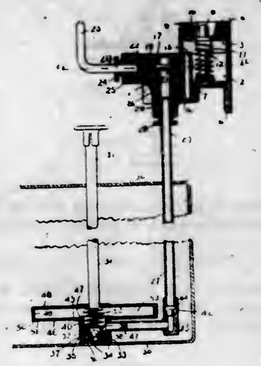
In a ventilator of the character described, a circular cover plate having a raised marginal border and a flange extended therefrom adapted to engage with the upper portion of a vessel, said cover plate having a plurality of radial openings formed therein, a shutter plate engageable with said cover plate and having a plurality of radial openings coincident with the openings in said cover plate, pivoted links for holding the cover and shutter plates in engagement, pins on said cover plate entering elongated slots in said shutter plates, an actuating knob on said shutter plate for actuating the same, said shutter plate recessed in its lower side, springs secured in the bottoms of the recesses of said shutter plate, said cover plate recessed in its upper face for the reception of the links for holding the shutter plate in its adjusted positions, substantially as described.

1,345,515. LAND-ROLLER. FRANK H. STONER, Monroe, Mich., assignor to Wilder-Strong Implement Company, Monroe, Mich., a Corporation of Michigan. Filed Feb. 28, 1918. Serial No. 219,548. 3 Claims. (Cl. 64—41.)



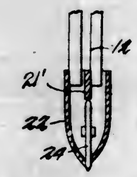
1. In a land-roller, the combination with a cylindrical shell, of a head therefor formed of relatively light-gage sheet-metal, a trunnion at the center of said head having an enlarged hub and an annular inwardly-extending flange passing through an aperture in said head, and a reinforcing ring on the opposite side of said head engaging said flange, said flange being peened over said reinforcing ring.

1,345,516. CARBURETER. HERBERT L. THOMPSON, Elgin, Ill., assignor to Elgin Gas Motor Company, Elgin, Ill., a Corporation of Illinois. Filed Apr. 15, 1918. Serial No. 228,520. 2 Claims. (Cl. 123—180.)



1. A device for feeding fuel to an internal combustion engine comprising a carbureter having a mixing chamber and a fuel well having an opening into said mixing chamber above the bottom of the latter; a fuel tank below the carbureter; a feed tube connecting the fuel tank with the fuel well; a priming cup open to the atmosphere outside said carbureter and communicating with said fuel well, the top of the priming cup being below the opening of said well into said mixing chamber; and manually operable means for forcing fuel through the feed tube into the fuel well and the priming cup.

1,345,517. GRAIN-DRILL. ALVIN M. THREEWITS, Centerville, Ind. Filed June 28, 1919, Serial No. 307,275. Renewed May 19, 1920. Serial No. 382,643. 3 Claims. (Cl. 111—79.)



1. A seed drill, a hopper, discharge tubes depending therefrom, a drill boot receiving the ends of the tubes, a partition in said boot and disposed between said discharge tubes, and a disk rotatably mounted in said boot directly below said partition, the disk being projected through the boot for dividing the same into two independent passage ways.

1,345,518. VALVE. JOHN VAN BRUNT, New York, N. Y., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 4, 1919. Serial No. 280,536. 3 Claims. (Cl. 251—4.)

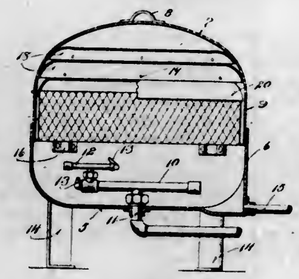
1. An adjustable throttle valve comprising a casing having a cylindrical bore, an inlet port and a discharge port on opposite sides thereof and end caps, a cylindrical plug longitudinally movable in said bore and having a passage extending diametrically through the same and adapted to register with said ports as said plug is revolved, means for

adjusting said plug axially so as to move said passage more or less out of the transverse plane passing through said



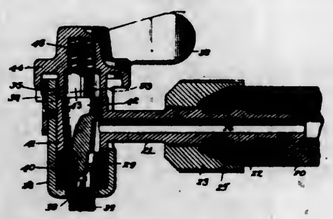
ports and holding it in such adjusted position, and means for rotating said plug when so adjusted and held.

1,345,519. CASING FOR DISH-WASHING MACHINES. JOHN VAUDREUIL, Milwaukee, Wis. Filed July 7, 1919. Serial No. 309,118. 2 Claims. (Cl. 141—9.)



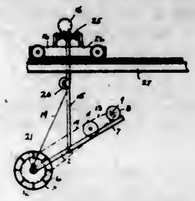
1. A dish-washing machine including a lower casing section, brackets on the inner faces of the upper portions of the walls of the lower casing section, an upper casing section having its walls adapted to fit within the upper portions of the walls of the lower section and seat on said brackets, an article supporting member removably seated on said brackets, and means for discharging fluid jets in the casing against articles carried in said member.

1,345,520. COMPRESSED-AIR-PIPE COUPLING. WILLIAM O. VIVARTTAS, Weehawken, N. J. Filed Feb. 10, 1920. Serial No. 357,737. 10 Claims. (Cl. 284—17.)



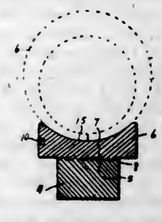
1. A coupling as characterized comprising, a head having a delivery air passage therethrough and adapted for service attachment to an air supply pipe; a container cup for said head; a resilient tubular filler permanently disposed in said cup in operative relation with said head; a cap rotatively mounted on said cup for moving said head to compress said filler; and means operatively uniting said cap and cup for moving said cap lengthwise of said cup when said cap is rotated.

1,345,521. SAND-CUTTING MACHINE. HOWARD L. WADSWORTH, Cleveland, Ohio. Filed Nov. 17, 1919. Serial No. 338,656. 4 Claims. (Cl. 259—144.)



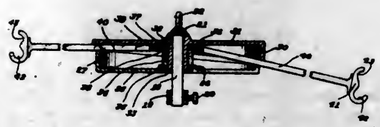
1. A sand cutting machine comprising a pair of traction wheels, a frame pivotally mounted thereon, a sand cutting cylinder mounted on said frame on one side of said wheels, and means connected to drive said cylinder, said means being mounted on said frame on the other side of said wheels from said cylinder, and assisting to balance said cylinder.

1,345,522. TIRE-RETAINING DEMOUNTABLE RIM. JOSEPH WALKER, Canonsburg, Pa. Filed Oct. 13, 1919. Serial No. 330,385. 1 Claim. (Cl. 301—15.)



In a tire retaining demountable rim, the combination with a felly having its outer cylindrical surface threaded concentric with the center of the wheel from one side face of the felly to the other, of a split rim, the inner cylindrical surface of which being threaded concentric with the wheel from one split end to the other and adapted to engage the threads of the felly, said split ends of the rim acting to permit the rim to expand when fitting the rim to the felly, whereby the spring action of the rim will cause a relative pressure of the rim on the felly, to insure partial contact between the connecting threads of the rim and the felly, the adjacent split ends of the rim having recesses of right angle or rectangular shape, the longer faces of the recesses being concentric with the rim, the shorter faces of the recesses constituting radial shoulders, said rim having channels for the reception of the tire and radial bolts threaded through the felly and engaging the radial shoulders of said recesses to prevent excessive binding between the threaded connections to retain the rim in position on the felly against relative movement, the ends of the bolts engaging the longer faces of the recesses to additionally prevent binding between the threaded surfaces.

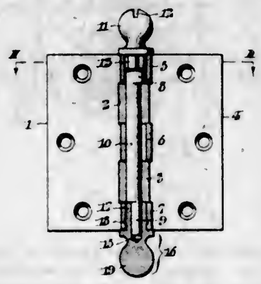
1,345,523. DRIER. STANLEY WASZKIEWICZ, Passaic, N. J. Filed Aug. 15, 1919. Serial No. 317,661. 1 Claim. (Cl. 68—34.)



In a wash hanger, the combination with a support extending diagonally upward from the wall of the building, a cam fixed upon said support, said cam having a diagonal

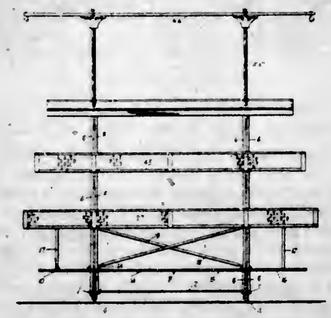
groove in the peripheral face thereof, a hub rotatably mounted interiorly of said cam, a plurality of arms radiating from said hub engageable in the groove of said cam whereby they are alternately raised and lowered as they are rotated, a pair of spooked pulleys pivotally mounted adjacent to a window in said wall, recesses formed at the ends of said spokes and the ends of said arms adapted to receive a cord.

1,345,524. HINGE. JOHN HOWARD WAY, Philadelphia, Pa. Filed May 9, 1919. Serial No. 295,966. 1 Claim. (Cl. 16—107.)



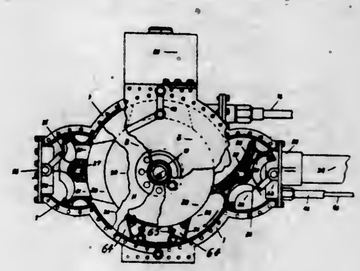
In a hinge, the combination of a pair of leaves formed with interfitting pivot knuckles; a coöperative pintle provided at one end with a head; a socketed member for sustaining the opposite end of the pintle, said member being provided with a peripheral shoulder serviceable as a retainer in coöperation with an internal groove in one of the hinge knuckles, and formed with a tapering approach functional, during assembling, in expanding the knuckle until the shoulder finds its seat within the groove.

1,345,525. DISPLAY-RACK. BENEDICT E. WILLETT, near Dayton, Ohio. Filed July 15, 1919. Serial No. 310,990. 16 Claims. (Cl. 211—14.)



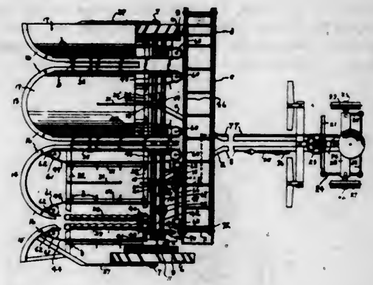
1. In a display rack, a pair of horizontal base members, a pair of vertically-disposed channel members secured to the middle portion of each base member, a horizontal bracing bar projecting through said channel members at right angles to said horizontal base members, an arch-shaped member secured to each base member, and whose upper portion projects between the channel members secured to the latter, above the horizontal bracing bar, and bowed basket holding bands secured between the arch-shaped members and the horizontal bracing bar.

1,345,526. ANNULAR STEAM ROTARY MOTOR. LEONARD ADAMS, Buffalo, N. Y. Filed Oct. 28, 1918. Serial No. 260,031. 14 Claims. (Cl. 121—80.)



1. In combination with an annular steam rotary motor having a suitable casing, two annular steam rotary motor rotors, each having a pair of steam-tight combination valve lift and steam obstructions arranged diametrically opposite each other and suitably fastened, together with a hollow shaft having a solid ring securely fastened onto it and whereon are suitably fastened said rotors in such a manner so that the pair of combination valve lift and steam obstructions on each rotor are positioned diametrically perpendicular to each other, all substantially as shown, described and for the purpose set forth.

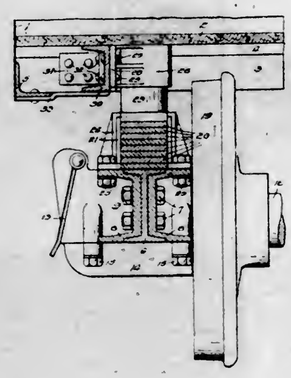
1,345,527. CORN HARVESTER. EUGENE G. BARKER, Glenwood, Iowa. Filed Aug. 30, 1918. Serial No. 252,039. 1 Claim. (Cl. 56—106.)



In a harvester, a main frame, wheels on which the frame is supported, a supplementary frame hingedly mounted on the main frame, U-shaped strips placed side by side on the supplementary frame with the closed curved portions disposed forwardly and downwardly to provide flaring jaws and with the sides of the strips separated to provide parallel channels to receive the stalks, pairs of shafts geared together for rotation in opposite directions journaled at their forward ends in the supplementary frame at opposite sides of the channels and having spiral ribs projecting laterally into the channels to engage the stalks, a bearing block on the supplementary frame adapted to receive the upper rear end of one of the shafts and having a guide space cut-away adjacent the bearing portion thereof, said block also having a transverse open

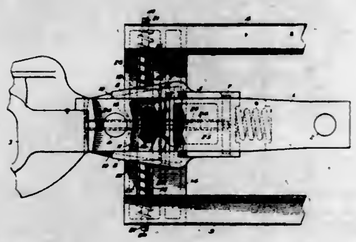
ing beneath the bearing portion, a bearing for the upper rear end of the companion shaft slidable transversely on said guide space, a rod slidable through the opening in the bearing block and having an upturned end to engage the second bearing, and resilient means associated with said rod.

1,345,528. STREET-CAR TRUCK. THEODORE A. BREWSTER, St. Louis, Mo. Filed Sept. 2, 1919. Serial No. 321,011. 2 Claims. (Cl. 105—213.)



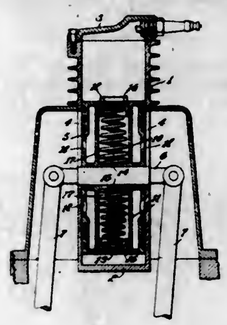
1. In combination with the underframe of a car, a truck, a telescopic four point drive connection between the truck frame and the underframe, and a buffer spring carried by each drive connection.

1,345,529. COUPLING-CENTERING MECHANISM. HARRY C. BUHOUP, Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 3, 1920. Serial No. 363,002. 5 Claims. (Cl. 213—42.)



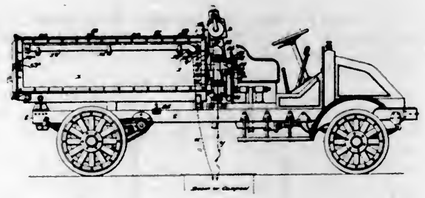
1. In mechanism of the character indicated, the combination with a coupler stem that is adapted to be pivotally connected to a car, of a coupler head, means for pivotally connecting said head and stem, means slidably mounted on said stem for centering said head with respect to said stem, and means engaging opposite sides of said stem beneath said slidably mounted means for centering said stem with respect to the car.

1,345,530. INTERNAL-COMBUSTION ENGINE. LEE ROYAL CARPENTER, Cleveland, Ohio. Filed Oct. 28, 1918. Serial No. 259,968. 6 Claims. (Cl. 123—57.)



1. In an internal combustion engine, a piston having a cylindrical well opening through its working end, a secondary piston in said well, and yielding means coöperating with said secondary piston and opposing its inward movement, said well being formed beneath its piston with a breather aperture communicating with the outer air.

1,345,531. PORTABLE PUMPING APPARATUS. ERNEST ORSON CARTWRIGHT, Springfield, Ohio, assignor to Charles F. Gardner, Springfield, Ohio. Filed Oct. 25, 1918. Serial No. 259,668. 17 Claims. (Cl. 214—65.)



1. In apparatus of the class described, a truck, a tank mounted on said truck, means for raising and lowering an end of said tank to dump the contents, a pump on the vehicle adjacent to the end of the tank which is adapted to be raised and lowered, an ejector carried by said truck and relatively fixed as to position, said ejector having its ejecting-nozzle entrance in communication with the outlet of the pump and having its suction entrance adapted to be put into communication with the sump to be cleaned out, a discharge pipe for delivering the material from the ejector outlet into the tank, said pipe and said ejector having a separable-section joint adapted to effect a water tight connection; when the tank is down and to be automatically disconnected, when the tank is raised, a suction pipe carried by the tank and a separable-section coupling between said suction pipe and the inlet of said pump, which coupling is also adapted to effect a fluid tight joint, when the tank is down and to be automatically disconnected, when the tank is elevated.

1,345,532. DRAG FOR PLANTERS. JOSEPH CASS, Delaware township, Delaware county, Iowa. Filed Sept. 13, 1919. Serial No. 323,522. 4 Claims. (Cl. 55—1.)



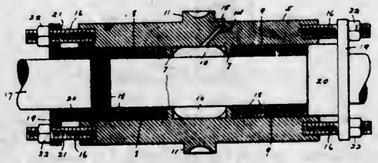
1. A drag for a planter or other vehicle, comprising a V-shaped bar having its vertex bent upwardly, and a draft-connection connected adjustably to the extremities of the members of said bar for vertical adjustment thereof.

1,345,533. PARACHUTE. JOSEPH CHYTRACEK, Clifton Mills, W. Va. Filed Mar. 12, 1920. Serial No. 365,234. 2 Claims. (Cl. 244—21.)



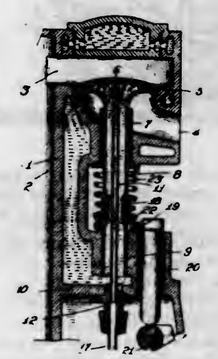
1. A parachute comprising an inflated air bag closed at its upper end and open at its bottom end, a ring for maintaining the bottom of the bag open at all times, inwardly extending radial springs carried by said ring and including upper and lower arms, a sleeve arranged centrally within the open end of the air bag and rigidly fastened to the inner ends of the lower spring arms, a second sleeve telescoping the first and pivotally connected with the inner ends of the upper spring arms, and an attaching harness connected with the second sleeve.

1,345,534. LINE-SHAFT BEARING. JOHN T. CRANE, Maywood, Ill. Filed Feb. 20, 1919. Serial No. 278,202. 5 Claims. (Cl. 64—24.)



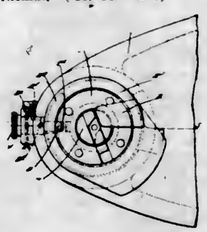
2. A bearing for rotating shafting comprising a casing having a bore therethrough for the passage of a shaft, said bore being of greater diameter than the shaft, said bore being enlarged to provide a chamber, lubricant containing means disposed intermediate the ends of said chamber, compressible packing disposed within said chamber upon opposite sides of said lubricant containing means, and means for compressing said packing to contact and form a bearing for a shaft passing through said bore whereby said packing provides the sole contacting means for the shaft.

1,345,535. VALVE AND MEANS FOR COOLING THE SAME. ARTHUR O. DADY, New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill., a Corporation of New York. Filed Jan. 2, 1918. Serial No. 209,896. 2 Claims. (Cl. 123—177.)



1. An internal combustion engine comprising the combination with a cylinder having a water jacket and a port provided with a valve seat, of a reciprocable valve coacting with said seat comprising a hollow stem having a hollow head at one end and being open at the other end, a bearing for the open end of said stem extending through said water jacket and communicating therewith, means for discharging water into said valve head comprising a tube extending through said water jacket and into said valve stem, and means for supplying water to said tube comprising a radiator, connections between said radiator and said water jacket, and a pump for withdrawing water from said radiator and discharging it through said tube.

1,345,536. ORDNANCE BREECH MECHANISM. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, England. Filed July 10, 1918. Serial No. 244,335. 7 Claims. (Cl. 89—27.)

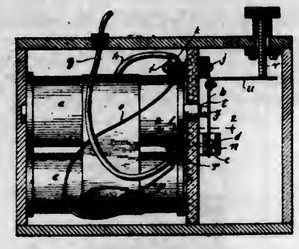


1. In ordnance breech mechanism of the breech screw carrier type, the combination with the axial vent bolt or mushroom stem and its spring, of a member serving as an abutment for one end of said spring and a displaceable catch mounted on the breech screw carrier for engaging with said member to hold it in position.

1,345,537. ELECTROTHERAPEUTIC APPARATUS. JAMES H. EASTMAN, Detroit, Mich. Filed Sept. 22, 1919. Serial No. 325,353. 4 Claims. (Cl. 200—90.)

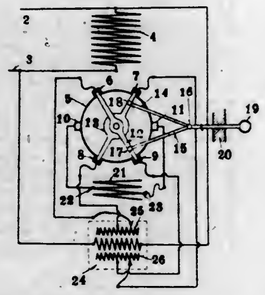
1. In electro-therapeutic apparatus, the combination of a magnet coil, an armature intermittently attracted thereby, an interrupter contact engaged intermittently by the armature, all said devices being in circuit, an arm

secured to the armature between its point of support and the interrupter contact, and means for increasing the



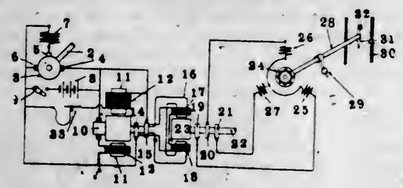
pressure against the arm to varyingly weaken the pressure of the armature against the interrupter contact.

1,345,538. ALTERNATING-CURRENT MOTOR. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 15, 1916. Serial No. 137,103. 7 Claims. (Cl. 172—276.)



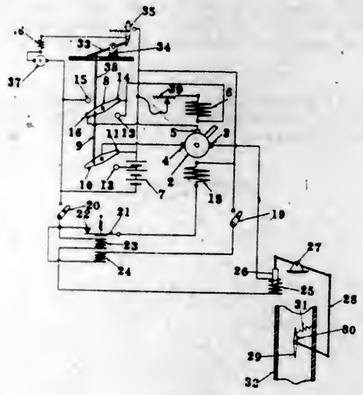
1. In an alternating current motor, the combination of an inducing member, an induced member provided with a commuted winding, means for establishing a working circuit through said winding, means for establishing an exciting circuit through said winding the current in which is independent of the current in the working circuit, means for conductively supplying an E. M. F. to the working circuit, and means for changing the number of conductors of the commuted winding included in the working circuit without changing the axis of said circuit.

1,345,539. SPEED-REGULATING APPARATUS. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 25, 1918. Serial No. 230,754. 12 Claims. (Cl. 175—355.)



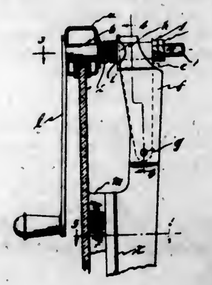
1. In speed regulating apparatus, the combination with a device to be regulated, of electromagnetic speed controlling means therefor, a device operating at a speed independent of that of the device to be regulated, and means for supplying to the electromagnetic speed controlling means an E. M. F. the magnitude of which is dependent on the difference in the speed of said devices.

1,345,540. SPEED-REGULATING APPARATUS. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 5, 1919. Serial No. 308,869. 8 Claims. (Cl. 290—36.)



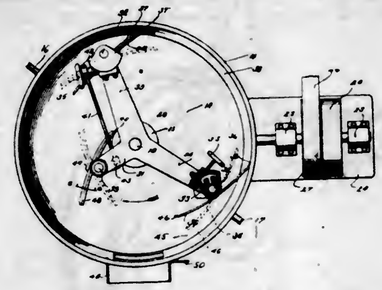
1. The combination of a prime mover, electromagnetic speed controlling means therefor, means for adjusting the controlling means to maintain desired prime mover speeds, a motor for starting the prime mover, a starting switch therefor, and means preventing closing of the starting switch when the speed adjusting means is in a predetermined position.

1,345,541. WINDSHIELD-WIPER. LOUIS W. GATES, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 8, 1920. Serial No. 364,169. 5 Claims. (Cl. 15—59.)



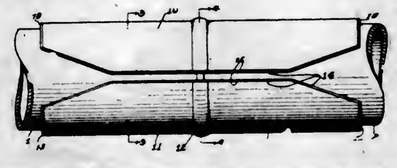
1. In a windshield wiper, the combination of a spindle adapted to be rotatably mounted in a windshield panel, a hand lever on one end of the spindle, a key secured to the other end of the spindle in such relation to turn therewith, means for adjusting the key toward and away from the glass, a wiping element pivoted to the key and adapted to swing at an angle to the plane of the panel, and means for yieldingly pressing the outer end of the wiping element toward the glass, the said adjusting of the key on the spindle causing the wiping element to swing upon its pivot to bring the wiping edge into parallelism with the glass.

1,345,542. DRYING, MIXING, AND KNEADING MACHINE. WILLIS N. HARTSHORN, Racine, Wis. Filed Feb. 10, 1920. Serial No. 357,664. 10 Claims. (Cl. 259—107.)



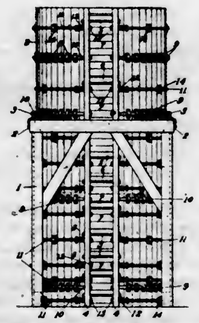
1. A material working machine comprising a container, means for spreading and kneading the material being worked against the rim of the container, and means independent of the first mentioned means for removing the material from the container rim.

1,345,543. PIPE CONNECTION AND METHOD OF MAKING THE SAME. JOHN H. HUTH, Philadelphia, Pa. Filed Jan. 14, 1920. Serial No. 351,324. 2 Claims. (Cl. 285—194.)



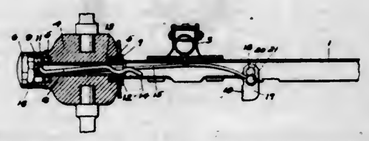
1. The combination with two pipe sections having their adjacent ends electrically butt-welded, the adjacent ends of the sections being disposed so as to provide a clearance space, of a saddle having connections with the adjacent edges of the two pipe sections when the ends are butt-welded, of sleeve sections fitting the pipe sections and having grooves overlying and engaging the electrical butt-weld of the two pipe sections, the remote ends and the longitudinal edges of the sleeve sections having electrical butt-weld with the pipe sections, thereby doubly insuring water-tight joints between the pipe sections.

1,345,544. SILO. JOHN LOGAN JONES and EDWARD C. JONES, Kansas City, Mo. Filed June 6, 1918. Serial No. 239,081. 3 Claims. (Cl. 20—1.4.)



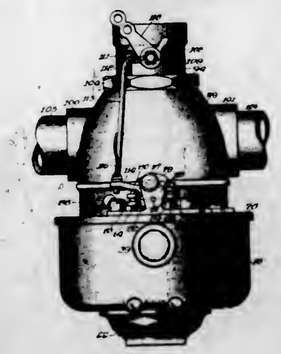
1. A silo comprising a rigid door frame, a stave secured to the inner face of each side of said frame, a series of staves fitted edgewise together in cylindrical form, anchorage devices externally of and conforming to the cylindrical arrangement of said series of staves, saddle clips secured to staves of said series and fitting slidingly on said anchorage devices; the said devices extending at their ends through the sides of the door frame, at angles diverging outward with respect to the outer faces of the staves secured to said sides, and means for clamping the series of staves equipped with the saddle clips, against the outer edges of the two staves secured to the sides of the door frame.

1,345,545. WHEEL-RETAINER. CHARLES A. LINDBERG, Sturgis, Mich., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich., a Corporation of Michigan. Filed Aug. 22, 1919. Serial No. 319,236. 2 Claims. (Cl. 301—112.)



1. In a wheel retaining means, the combination of a hollow axle having a hole at the outer end thereof, a wheel mounted on said axle, a bar-like retaining dog disposed in said axle and provided with a laterally projecting wheel engaging portion adapted to be projected through said hole, said dog having an offset at its inner end engaging the axle so that the dog is normally supported in an outwardly inclined retracted position, and a rod-like actuating member disposed in said axle to reciprocate at the side of said dog and having a lateral curved offset at its outer end adapted to engage said retaining dog so that when the actuating member is actuated it slidably engages said retaining dog and projects its engaging portion through said hole.

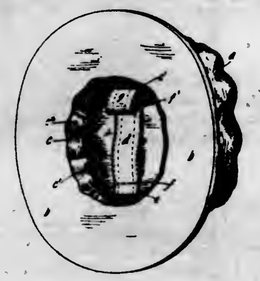
1,345,546. CARBURETER. TORBJÖRN LINGA, Winthrop Harbor, Ill. Filed June 29, 1916. Serial No. 106,575. 2 Claims. (Cl. 261—18.)



1. A carbureter of the character described, including in combination, compartments for a plurality of fuels of different specific gravities connected by separate passages to a nozzle communicating with the mixing chamber of the carbureter, an adjustable needle-valve for said nozzle, float-controlled valves preserving predetermined liquid fuel levels in said compartments, valves controlling said passages between said compartments and nozzle, uniting means associated with said passage valves controlling the flow ratio of the fuels from said compartments to the mixing chamber through the nozzle, a throttle, and means

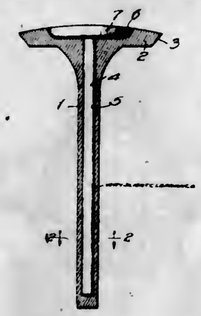
connecting said throttle and uniting means whereby the fuel ratio delivered to the nozzle may be determined by the position of the throttle, substantially as described.

1,345,547. WOMAN'S HAT. MARIE D. MCDONALD, Portland, Oreg. Filed Sept. 19, 1919. Serial No. 325,015. 7 Claims. (Cl. 2—186.)



5. In a hat provided with a lining, a hand-strap stitched at its ends to the lining being arranged parallel with the latter, the hand-strap being of substantial width, the stitches securing the hand-strap to the lining being located at the fastening of the margin of the crown-piece of the lining to the sides of the latter, transverse supplemental stitches, spaced inward from said first mentioned stitches, securing the hand-strap adjacent its ends to the lining, thereby forming a loop of convenient length relative to the width of the hand, for the purpose specified, the hand-strap being stiffened so that the portion between said supplemental stitches will have a tendency to assume and maintain a loop form, and a loop at one end of said hand-strap, such loop being adapted for hanging the hat from a peg.

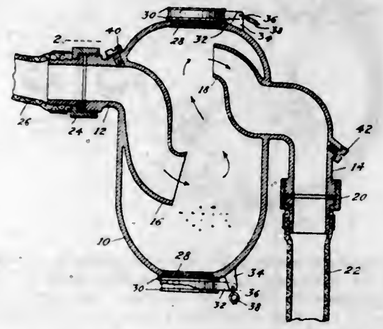
1,345,548. VALVE. EDWARD MONTAGUE, Chicago, Ill. Filed Feb. 28, 1919. Serial No. 279,844. 5 Claims. (Cl. 123—188.)



1. In a valve for explosive engines having a stem and a head, means for conducting heat from the head to the stem comprising a rod of copper or the like having an enlargement on one end, said stem having a bore extending longitudinally thereof into which said rod is entered, and said head having a cavity for receiving said enlargement on the rod, the rod being slightly smaller in size than the bore and the enlargement on the rod fitting snugly in its cavity so as to be firmly secured therein.

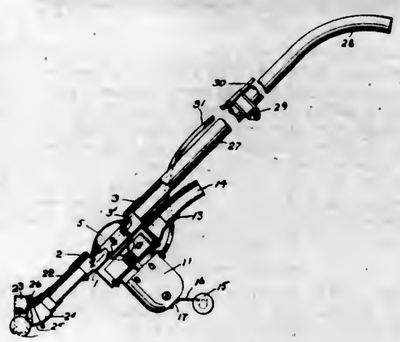
1,345,549. DENTAL APPLIANCE. HARRY P. RAWSON, Minneapolis, Minn. Filed Dec. 26, 1918. Serial No. 268,380. 1 Claim. (Cl. 182—12.)

A dental appliance comprising a vertically extending casing, a pipe adapted to be connected with a fountain spittoon located at a dentist's chair and leading through the upper portion of the side wall of said casing, the discharge portion of said pipe being curved downwardly within said casing adjacent said side wall and being then curved so as to extend substantially horizontally between the top and bottom of said casing to provide a settling



chamber for retaining particles of dental fillings in the lower portion of said casing, and an outlet pipe leading from the top of said casing, said outlet pipe being curved downwardly within said casing and outwardly through the side wall thereof and then being curved downwardly outside of and adjacent said side wall for attachment to a waste pipe.

1,345,550. PNEUMATIC CLEANER. DANIEL B. REPLOGLE, Berkeley, Calif. Filed June 5, 1916. Serial No. 101,695. 10 Claims. (Cl. 15—60.)

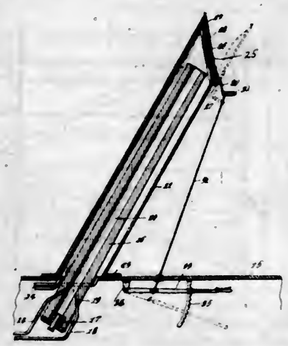


1. In a manually portable vacuum cleaner, the combination with a member having tubular socket conduct arms carrying vacuum producing means, of a plurality of suction pipes operably connected to said arms, and adapted to connect with suction tools at their outer ends.

1,345,551. GUN. HERMAN F. RIESCHICK, Kansas City, Mo. Filed Feb. 1, 1918. Serial No. 214,871. 2 Claims. (Cl. 89—5.)

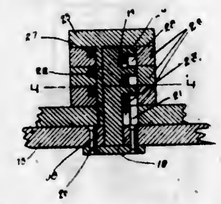
1. A gun of the class described comprising a barrel, a tube fitting around said barrel and being spaced from the outer walls therof, a gate hingedly secured to the outer end of said tube, said gate provided with a yieldable cushion upon the inner face thereof being adapted to fit snugly upon the outer end of said tube and constituting a seal therefor when said gate is in a closed position, an operating arm carried by said gate, means engaging said operating arm for opening and closing the same, means

for conveying compressed air to said tube and for facilitating the forcing of a circular jet of air longitudinally of



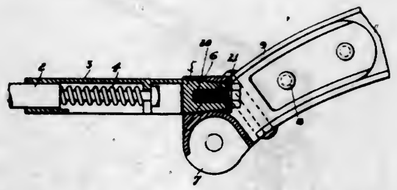
the tube for preventing the entrance of water in the outer end of said tube while the gun is being fired.

1,345,552. COMBINATION-LOCK. WALDO A. RIGAL, Corning, N. Y. Filed Dec. 3, 1917. Serial No. 205,179. 1 Claim. (Cl. 217—56.)



In combination, a box, a lid hinged at one edge to a side of the box, and having a centrally disposed lip at the opposite edge which when the lid is closed provides openings at the sides of the lip, a strip within the box and hinged at one edge thereof and adapted to underlap the said lip and close the openings at the sides thereof, a locking bolt carried by the said strip and adapted to pass through the said lip, a sleeve carried by the lip of the lid and adapted to receive the locking bolt, a tumbler mounted in the sleeve and adapted to co-act with the locking bolt to secure the same.

1,345,553. BUMPER FOR AUTOMOBILES. JAMES H. SAGER, Rochester, N. Y., assignor to J. H. Sager Company, Rochester, N. Y., a Corporation. Filed Apr. 23, 1917. Serial No. 163,997. Renewed May 26, 1920. Serial No. 384,506. 6 Claims. (Cl. 293—55.)



1. In combination with a vehicle frame, two brackets each secured to such frame and each having a socket, the axes of the two sockets being parallel, a bumper bar and two bumper supporting arms each having an inner member rigidly and detachably secured in one of the sockets, an outer member guided on the inner member and connected to the bumper bar, and springs interposed between the inner and the outer members of the bumper supporting arms.

1,345,554. BUMPER FOR AUTOMOBILES. JAMES H. SAGER, Rochester, N. Y., assignor to J. H. Sager Company, Rochester, N. Y., a Corporation. Original application filed Apr. 23, 1917, Serial No. 163,997. Divided and this application filed June 29, 1918, Serial No. 242,657. Renewed May 26, 1920. Serial No. 384,507. 9 Claims. (Cl. 293—55.)



8. In combination with a channeled frame bar having a curved forward end, a bracket secured in said channeled frame bar and projecting therefrom for securing to a vehicle spring, devices for securing said first named bracket in said frame bar, and a bumper supporting bracket secured by said devices and abutting the curved upper face of the end of the frame bar.

1,345,555. WELL-CLEANER. LEMUEL H. SARGENT, Fort Worth, Tex. Filed Oct. 18, 1919. Serial No. 331,574. 2 Claims. (Cl. 166—20.)

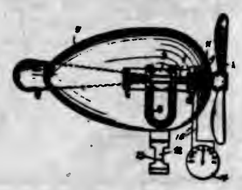


1. A well cleaner including a supply pipe having a nozzle at one end thereof, an upper sealing valve and a lower sealing valve disposed on the supply pipe, the lower sealing valve including an upper expansible member and a lower expansible member, each of said expansible members having a tapering opening formed therein, opposed wedging members disposed within the tapering openings, cylindrical drums having connection with the wedging members, said cylindrical drums having communication with the supply pipe for directing fluid pressure to the drums for causing the wedging members to expand the expansible valve members.

1,345,556. APPARATUS FOR THE DETERMINATION OF VERTICAL VELOCITIES IN OR OF AIR OR WATER. CORNELIS SCHOUTE, De Bilt, near Utrecht; FLORIS ALBERT VAN HEYST, Soesterberg, and NICOLAAS EVERHARD GROENVELD MEYER, Bosch en Duin, near Zeist, Netherlands. Filed Mar. 26, 1918. Serial No. 224,792. 4 Claims. (Cl. 290—44.)

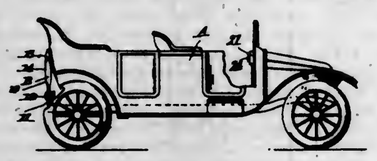
1. An apparatus for the determination of vertical velocities in or of air, water or other medium, comprising,

in combination, a reaction element driven by said medium and adjustable to maintain a constant position with respect to the direction of the relative movement of said medium, an electric generator armature rotated by said reaction element and a field magnet in inductive relation



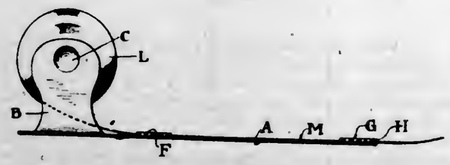
to said armature, the angle between the direction of the lines of flux due to said field magnet and the axis of rotation of said generator armature being variable so as to correspond at any moment to the angle of the relative movement of said medium and the horizontal.

1,345,557. AUTOMOBILE-SIGNAL. EDGAR GEORGE SHANE, Ottawa, Ontario, Canada. Filed Nov. 25, 1918. Serial No. 264,046. 1 Claim. (Cl. 40—132.)



A direction indicator for vehicles comprising a casing formed with a downward extension and a plurality of upwardly extending hollow branches including a vertical branch and side branches diverging outwardly from the vertical branch to a point toward opposite sides of the vehicle, a rear light mounted in the downward extension of the casing, and a number plate mounted in said extension directly above the rear light, so as to be illuminated thereby.

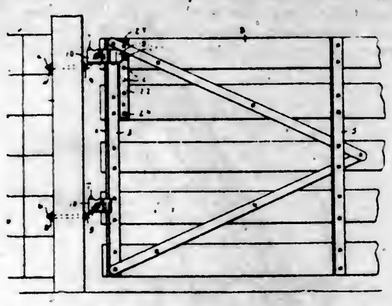
1,345,558. WRITING-PAD. HENRY C. SIMMONS, Atlanta, Ga. Filed Feb. 21, 1920. Serial No. 360,361. 5 Claims. (Cl. 281—6.)



1. A writing pad holder comprising a body having lateral wings, knobs depressed from said wings and guides formed in said body and limited therefrom by parallel slots cut therefrom.

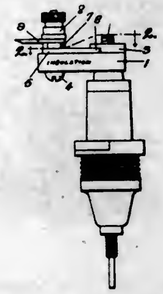
1,345,559. GATE AND HINGE CONSTRUCTION. STEPHEN A. SLAUSON, Cedar Rapids, Iowa. Filed Mar. 12, 1919. Serial No. 282,226. 2 Claims. (Cl. 39—87.)

1. In a device of the class described, a suitable fixture; a pivot adapted to be rigidly supported by said fixture; a clamping device hingedly mounted on said pivot, and provided with a perforated extension; a gate provided at one of its ends with members having a vertical sliding relation with said clamping device; means for causing a clamping engagement between said last-named members and said clamping device; a bar secured to said gate and



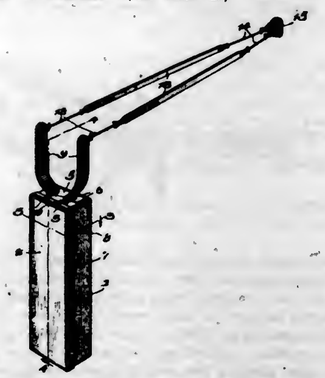
provided with a series of perforations; and a pin adapted to connect said bar with said extension.

1,345,560. SPARK-PLUG INTENSIFIER. WILLIAM F. SMITH, St. Louis, Mo. Filed Nov. 30, 1917. Serial No. 204,728. 1 Claim. (Cl. 175—183.)



The combination with a spark plug having a binding post, of a block of insulating material, a nut engaging the binding post to clamp the block fixedly in position on the spark plug, a binding post on the block, and an arcuate finger held on the block by said last named binding post and adjustable angularly toward and from the holding nut on the binding post of the spark plug, said finger lying flat on the block with the greater portion thereof in contact with the block and being held by friction against accidental movement.

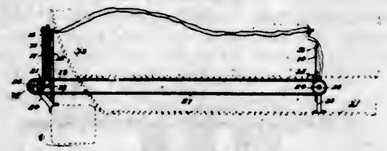
1,345,561. COLLAPSIBLE SLING-SHOT. JAMES SMITHWICK, Manson, N. C. Filed Mar. 20, 1920. Serial No. 367,388. 6 Claims. (Cl. 124—2.)



1. A sling shot device including a combined casing and handle member, and a fork unit pivotally mounted within

the casing, whereby it may be folded into concealed position within the casing or swung to an external operative position.

1,345,562. AUTOMOBILE DIRECTION-INDICATOR. JOSEPH SOBOCINSKI, Cudahy, Wis. Filed Apr. 26, 1919. Serial No. 292,797. 2 Claims. (Cl. 40—67.)



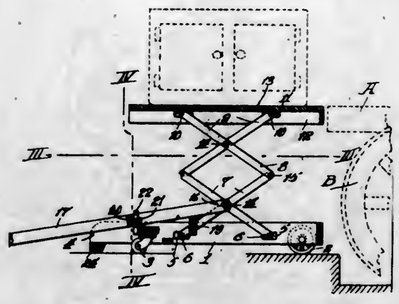
1. An indicator comprising a swinging semaphore arm, a vertically slidable rack intermediately positioned when the arm is in its normal vertical position and operating connections between the said rack and arm whereby the arm is adapted for upward swinging movement in either direction upon the vertical shifting of the rack.

1,345,563. VAPORIZER. MARSHALL KNIGHT THAYER, Edgemont, S. D. Filed Oct. 20, 1919. Serial No. 331,980. 8 Claims. (Cl. 266—5.)



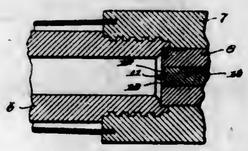
1. The combination with the intake pipe of a combustion motor having a slot in its wall, means forming a liquid fuel chamber adjacent to and on a level below the outer end of said slot whereby products of combustion within the chamber may be drawn in the pipe slot without danger of influx of the fuel oil, and a cover normally closing the fuel chamber and the said slot.

1,345,564. TRUCK. THEODORE G. THOMAS, Houston, Tex. Filed Nov. 17, 1919. Serial No. 338,629. 3 Claims. (Cl. 254—9.)



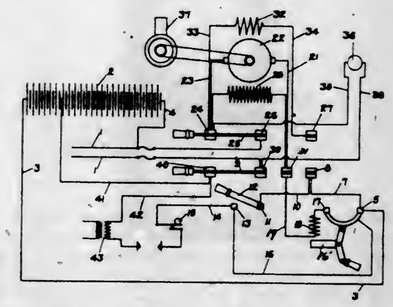
1. A hoisting device comprising a platform, a lazy-tong mechanism engaged beneath said platform, a lever fulcrumed beneath said platform intermediate of its ends having one end in engagement with the lower portion of said mechanism and a ratchet pawl for engagement with a part of said lever.

1,345,565. OBTURATING FIRING-PIN. JOHN T. THOMPSON, Newport, Ky., assignor of one-half to Thomas F. Ryan, New York, N. Y. Filed Mar. 25, 1920. Serial No. 368,646. 9 Claims. (Cl. 42—69.)



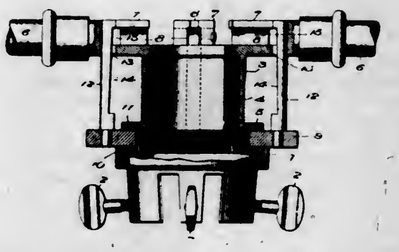
1. In a gun, a firing pin entering the chamber thereof through a firing pin channel, the pin having a portion thereof adapted to be urged into intimate contact with the walls of the channel by powder pressures in the chamber.

1,345,566. ELECTRIC POWER SYSTEM. JOHN GUY THORNBURGH, Indianapolis, Ind., assignor to Swartz Electric Company, Indianapolis, Ind., a Corporation of Indiana. Filed Apr. 3, 1918. Serial No. 226,472. 4 Claims. (Cl. 290—35.)



4. In an electric power system, a dynamo electric machine operable as a motor or generator, a battery, a load line, a prime mover, an ignition circuit, an electromagnetic circuit breaker in the ignition circuit and battery circuit and a manually operated switch controlling the ignition circuit, said circuit breaker being operable automatically by a decrease in current demand on the line, to break the ignition circuit when the ignition switch is open.

1,345,567. GEARED, ADJUSTABLE, PIPE-THREADING DEVICE. CHARLES G. WAHNSIEDLER, Evansville, Ind. Filed June 23, 1919. Serial No. 306,054. 6 Claims. (Cl. 10—120.5.)



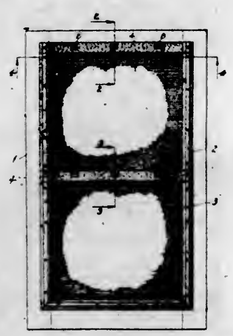
1. In a tool having a head provided with channels which are blind at their outer ends, clean-out openings intersecting the respective channels.

1,345,568. RECEPTACLE. ARTHUR J. WARD, Duluth, Minn. Filed Aug. 11, 1919. Serial No. 316,803. 2 Claims. (Cl. 4—27.)



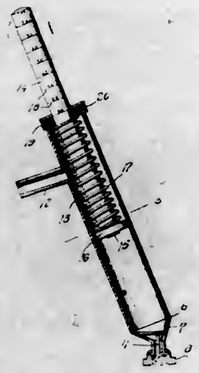
1. The combination with an oblong receptacle of the character described, of a pedestal fixed to the bottom and extending upwardly therein, centrally and transverse the shorter dimension thereof, substantially as and for the purpose described.

1,345,569. SCREEN. CLIFFORD M. WAY, Des Moines, Iowa. Filed July 1, 1919. Serial No. 307,898. 3 Claims. (Cl. 156—37.)



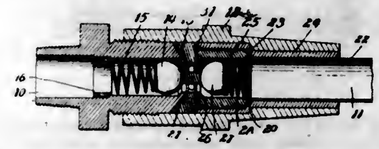
3. As a new article of manufacture a metal strip adapted for attachment to screens for windows, doors, or the like, said strip comprising lateral projections, triangular in cross section, the strip and projections being provided with alined nail receiving openings whereby the strip may be held against the screen frame.

1,345,570. TIRE-PRESSURE GAGE. EARL D. WHITE, Delta, Colo. Filed May 19, 1919. Serial No. 298,251. 1 Claim. (Cl. 152—11.5.)



In a device of the class described, a hollow cylindrical body having a contracted inclined tubular extension, a spring pressed pressure indicator slidably mounted in said body, said indicator comprising a stem and piston, a check valve in said piston, means for connecting said body with a pump at a point above the normal downward limit of movement of said piston and means for connecting the tubular extension to a tire nipple.

1,345,571. PIPE-COUPLING. CHARLES E. YATES, Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 7, 1917. Serial No. 147,161. 9 Claims. (Cl. 284—19.)



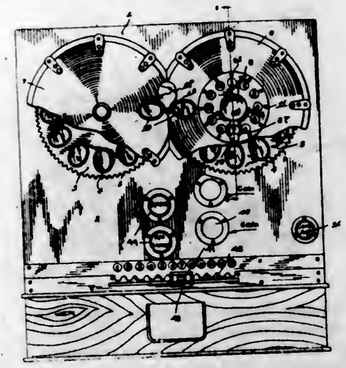
1. A pipe coupling comprising two valved members to be connected, means for coupling said members, and means clamped between said members for opening both said valves as said members are coupled.

1,345,572. RAILROAD-TIE. FELIKS BARNIAK, Rosemont, W. Va. Filed May 7, 1920. Serial No. 379,535. 3 Claims. (Cl. 238—66.)



2. A tie comprising an I-beam having an upright web, brackets arranged in pairs at opposite sides of the beam with right angular portions coincident with the base flange of the beam and the adjacent portion of the web, securing bolts through the web of the beam and the adjacent portions of the brackets, the latter having double curved upwardly and outwardly projecting portions terminating in supporting arrangement beneath the outer edge portions of the top flange of the beam and rail holding means positioned through the top flanges of the beam and the adjacent end portions of the brackets.

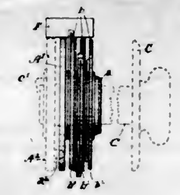
1,345,573. EYE-TESTING MECHANISM. SAMUEL C. BARR, Chillicothe, Ohio, assignor to The Barr Company, a Corporation of Ohio. Original application filed Nov. 27, 1916, Serial No. 133,546. Divided and this application filed Mar. 25, 1918. Serial No. 224,487. 2 Claims. (Cl. 88—22.)



1. In a machine of the character described, a test lens holding means rotatably mounted to present a successive

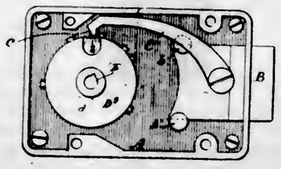
array of lenses of varying properties, a testing card in proper alinement with the line of vision as said lenses are successively presented, a slidably mounted rack upon which said card is mounted, a pinion in mesh with said rack, a segmental rack operatively connected to said pinion, and means operable from the outside of said machine for oscillating said segmental rack to move said card back and forth.

1,345,574. COMBINATION-LOCK. EDGAR M. BENHAM, Norwood, Ohio, assignor, by mesne assignments, to The Mosler Lock Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 23, 1917. Serial No. 182,182. 6 Claims. (Cl. 70—53.)



1. A combination lock embodying a rotatable dial arbor; a drive-wheel removably secured thereon; a second drive-wheel interconnected with the first, loosely mounted on the arbor and provided with an extended hub; a system of toothed disks or tumblers independently carried rotatably upon said stump, and each provided with one or more radial pawls, circumferentially adjustable in relation thereto; and an angle bar extended across said drive-wheels and disks in the rotative path of the projecting extremities of said pawls as an arresting stop; said drive-wheels and disks being peripherally slotted to receive the angle-bar.

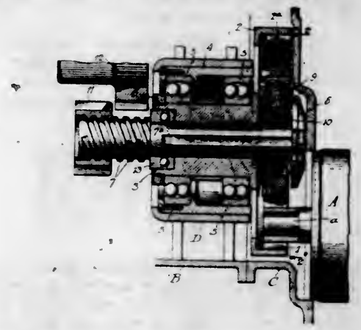
1,345,575. COMBINATION-LOCK. WILLIAM T. BENHAM and EDGAR M. BENHAM, Norwood, Ohio, assignors, by mesne assignments, to The Mosler Lock Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 8, 1917. Serial No. 147,437. 7 Claims. (Cl. 70—53.)



1. In a tumbler lock, in combination with a dial and its arbor, a disk-tumbler notched around its periphery in correspondence with the unit markings of the dial; a radial pawl adapted to seat concentrically with and adjacent to the tumbler and adjustably engage the same and extend outwardly beyond it; and a fence adapted to extend across the tumbler in the rotative path of said pawl-extension and arrest the rotation of said tumbler by contact with said extension.

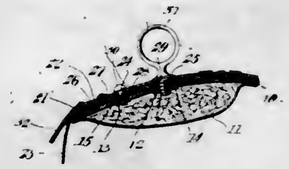
1,345,576. ENGINE-STARTER. VINCENT BENDIX, Chicago, Ill. Filed Dec. 16, 1918. Serial No. 267,068. 11 Claims. (Cl. 74—7.)

1. In an engine starter, a drive or transmission comprising an internal gear, a rotatable shaft operatively connected therewith and in the rotarial axis thereof, a driving member mounted on one end thereof for longitudinal movement thereon to engage an engine member



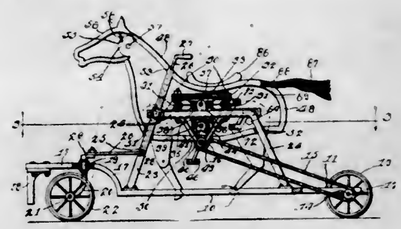
and for rotary movement therewith after such engagement, and a driving pinion meshing with the internal gear.

1,345,577. HARNESS. GEORGE ANDREW BOWNESS, Summerside, Prince Edward Island, Canada. Filed May 6, 1919. Serial No. 295,196. 2 Claims. (Cl. 54—38.)



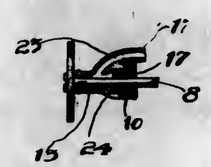
1. A saddle having a passageway in a lateral edge and slit in the outer face, a belly strap having the upper end slidably passing through the said passageway and said slit, readily removable means for securing the belly strap in position, and a ring engaged by the belly strap and saddle, as and for the purpose specified.

1,345,578. EQUESTRIAN TOY VEHICLE. IRA A. BURNETT, Chicago, Ill. Filed Dec. 8, 1919. Serial No. 343,159. 5 Claims. (Cl. 208—165.)



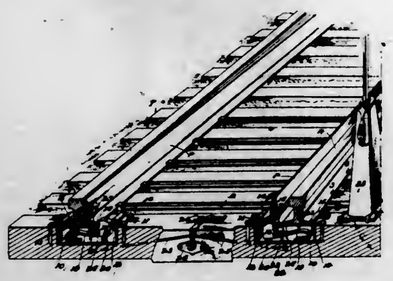
1. In a device of the class described, the combination with a supporting frame including a wheeled base and a support extended upwardly therefrom, of a crank shaft transversely supported by the upper portion of said support below the same, gearing uniting said shaft and the axle of the rear wheels of the main frame for driving said wheels, a body in simulation of the body of a horse mounten on the said support for pivotal movement longitudinally with respect to the support, a pair of legs pivotally mounted on each side of said body, means operatively connecting the diagonally disposed legs in pairs, and means driven by the crank shaft and connected to said operative connections with the legs for imparting pivotal movement to the latter.

1,345,579. MOISTENING ATTACHMENT FOR DENTAL-ENGINE HANDPIECES. IRA A. BUSNETT, Chicago, Ill. Filed May 1, 1920. Serial No. 378,043. 2 Claims. (Cl. 32—10.)



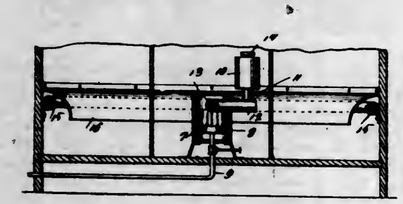
1. In a moistening attachment for dental engine hand pieces, the combination with a tubular member, of a resilient sleeve located in the rear portion of said member and adapted at its rear end to contact with the front end of said hand piece, said sleeve having a longitudinal opening registering with the opening in the hand piece and with the opening of the tubular member in which it is located, and means longitudinally mounted on said tubular member and extended along the same for the discharge of water at its front portion near the front end of said tubular member.

1,345,580. SWITCH-LOCK. JOHN L. BURTON, Hamlet, N. C. Filed July 24, 1919. Serial No. 313,060. 12 Claims. (Cl. 246—448.)



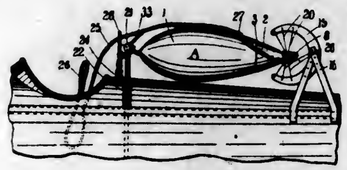
11. In a switch point lock, the combination of a casing, a chair plate closing the casing, a switch point stop normally projecting from the casing through said plate in active position, and means within the casing for retracting said stop.

1,345,581. HEATER FOR POULTRY-HOUSES. LU ELLA BUSBY, Caldwell, Kans. Filed Sept. 23, 1919. Serial No. 325,811. 2 Claims. (Cl. 119—32.)



1. The combination with a compartment having a heater therein; of a water conduit arranged around the inner wall of said compartment, a tank supported above said heater, a T-shaped pipe having the intersection portions thereof positioned over the heater, the stem of said pipe communicating with the tank and its arms arranged transversely of the compartment and communicating with said conduit on opposite sides of the compartment.

1,345,582. PARACHUTE. EVERARD RICHARD CALTHROP, London, England, assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Filed Mar. 25, 1919. Serial No. 285,133. 8 Claims. (Cl. 244—21.)



1. A parachute launching device comprising a two-part streamline container within which the parachute and its associated parts are nested, a universal joint for supporting one end of the container on the fuselage of an air craft and a rupturable connection for supporting the other end of the container and adapted to maintain the container normally in position.

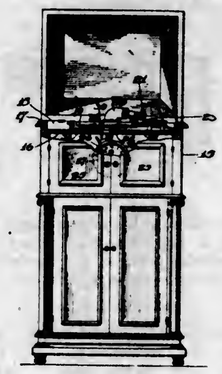
1,345,583. DRILL-PRESS CHUCK. ALBERT EDWARD CHURCH, New Britain, Conn. Filed Feb. 24, 1919. Serial No. 278,881. 8 Claims. (Cl. 279—74.)



1. In a chuck, a head having a tool receiving socket, a tool driving key movable in said head and projecting normally into said socket, said key being retractable by the forcible insertion of a tool, and key released means for retaining said key in driving position, said retaining means being movable to released position by insertion of the tool and being self-returned to operative position when the tool is completely inserted.

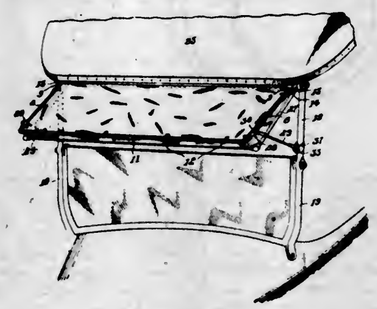
1,345,584. TIME-CONTROLLED STARTING MECHANISM. FRANCESCO CIRELLI, Philadelphia, Pa. Filed Aug. 20, 1918. Serial No. 250,664. 6 Claims. (Cl. 58—14.)

1. The combination of a record, means for moving said record; means movable to effect the movement of said record by said first means; sound transmitting means for engagement with said record; a support for holding said soupd transmitting means out of engagement with said record; and time-controlled means initially operative to actuate said second means to start the record and afterward operative to move said support into a position to



permit said sound transmitting means to engage said record; substantially as described.

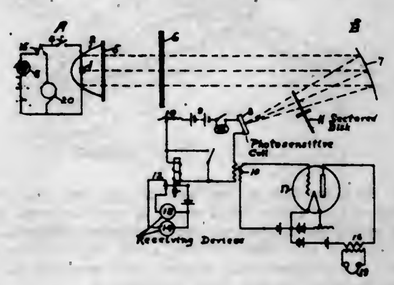
1,345,585. AUTOMOBILE-WINDSHIELD SCREEN. GEORGE WM. CISSEL and JOHN P. APPLEMAN, Washington, D. C. Filed July 29, 1919. Serial No. 314,133. 10 Claims. (Cl. 296—95.)



5. A screen for automobile wind shields comprising a rear bar having threaded ends, a pair of L-shaped bars having adjacent ends adjustably connected and provided with apertured free ends through which the threaded ends of the rear bar project, mounting brackets upon said threaded ends of the rear bar, nuts upon said rear bar between which said mounting brackets and L-shaped bars are retained, and means associated with the forward portion of the screen and adapted for adjustable connection with the upright bars of a wind shield to retain the screen in adjusted angular positions, said last named means including a link pivotally and slidably associated with the L-shaped bars.

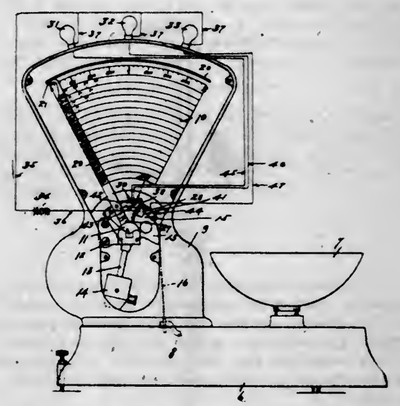
9. The combination with the upright bars of a windshield having bolts upon their upper ends and provided with enlargements at the bases of said bolts, and a top having keepers at its forward end in which said bolts are adapted to be retained, of mounting brackets resting on said enlargements and having apertures through which said bolts are disposed, said keepers substantially resting on said brackets when said bolts are disposed in said keepers and the top is up, a screen extending forwardly and downwardly from the forward end of said top and carried by said mounting brackets, said screen being pivoted to said mounting brackets at a point below the portions of the same which rest upon said enlargements, and means to swing said screen vertically to various inclinations.

1,345,586. RADIOPHONE. WILLIAM W. COBLENTZ, Washington, D. C. Filed Oct. 8, 1919. Serial No. 329,365. 25 Claims. (Cl. 250—2.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



22. A detector of radiant energy of wave length shorter than that of the shortest Hertzian waves comprising molybdenite.

1,345,587. SCALE. JULIUS A. DAHNE, Stillwater, Minn. Filed Mar. 14, 1919. Serial No. 282,616. 3 Claims. (Cl. 265—36.)

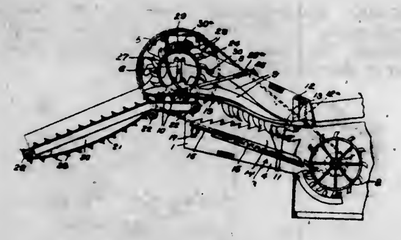


1. The combination with a weighing scale having a dial, of a hand coöperating with the dial and arranged to be set in different weight indicating adjustments in advance of the weighing action of the scale, a plurality of visual weight indicators, and automatic means for including said hand for successively operating said indicators under the weighing action of the scale and in respect to the weight indicated by said hand.

1,345,588. BAND-CUTTER AND FEEDER. BRUNO DION and AMÉDÉE DION, Ste. Therese de Blainville, Quebec, Canada. Filed July 26, 1918. Serial No. 246,866. 13 Claims. (Cl. 130—1.)

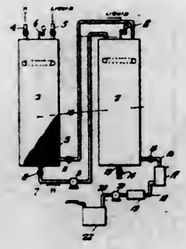
1. In a machine of the character specified, the combination of a rotary shaft; a drum encircling said shaft but free from contact therewith or support thereon, said drum being provided with cutting means; driving connections between said shaft and said drum for rotating the latter from the former; a carrier for delivering bundles beneath said drum to be acted upon by said cutting means; driving connections between said carrier and said shaft; a

centrifugal governor carried by said shaft; and mechanism controlled automatically by said governor for interrupting both driving connections.



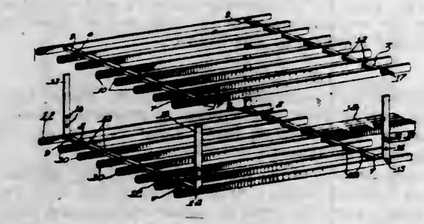
13. In a machine of the character specified, the combination of a rotatable crank shaft; a retarder drum encircling said shaft but not supported thereon, said drum being provided with band cutters; a belt carrier below said drum; and reciprocating feeding bars mounted on said crank shaft on opposite sides of said drum.

1,345,589. PROCESS OF HYDROGENATION. CARLETON ELLIS, Montclair, N. J. Original application filed Mar. 29, 1912, Serial No. 686,988. Divided and this application filed Feb. 20, 1917. Serial No. 149,747. 25 Claims. (Cl. 23—24.)



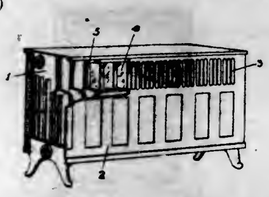
1. A process of hydrogenating aromatic organic material containing unsaturated components, which comprises subjecting a flowing current of such material carrying a colloidal catalyst, to the action of a counter current of a hydrogen-containing gas, said materials being maintained at a temperature at which such material can react upon each other.

1,345,590. GRIDIRON. MATTHEW A. FORD, Rockford, Ill. Filed Feb. 10, 1920. Serial No. 357,583. 9 Claims. (Cl. 53—5.)



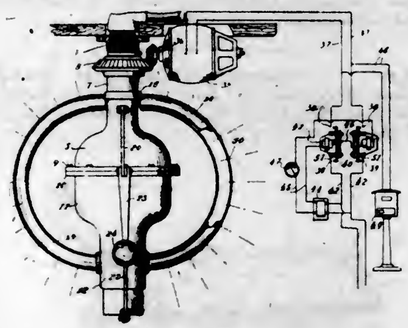
9. The combination of a pair of collapsible grids, and a casing for housing the grids when in collapsed form and constituting a handle for supporting the grids in operative form.

1,345,591. INCASED RADIATOR. WESTON M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed Aug. 31, 1916. Serial No. 117,872. 14 Claims. (Cl. 257—136.)



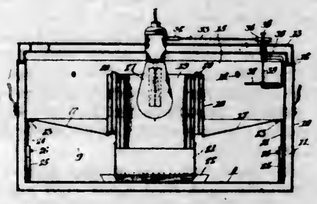
2. The combination of a radiator and a casing therefor provided with a plurality of shutters constituting a damper, said radiator being so constructed as to provide a recess for the reception of said shutters.

1,345,592. AUTOMATIC SPRINKLER. FRANK T. GENTILE, Canton, Ohio, assignor of one-half to Karl M. Kleeman, Canton, Ohio. Filed Sept. 2, 1919. Serial No. 320,984. 1 Claim. (Cl. 169—37.)



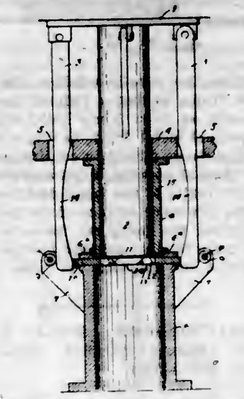
A sprinkler including a hollow casing connected to a water supply, a head rotatably mounted upon said casing and inclosing the casing, a rotatable valve within the casing having rock arms at its extremities, a slidable sleeve fitting within the lower extremity of the head, a rod carried by said slidable sleeve and connected to said rock arm and centrifugal means to raise the slidable sleeve and open the valve as the head is rotated.

1,345,593. INCUBATOR. FRANCIS GIDDENS, Ottawa, Ontario, Canada. Filed May 31, 1918. Serial No. 237,517. 4 Claims. (Cl. 119—37.)



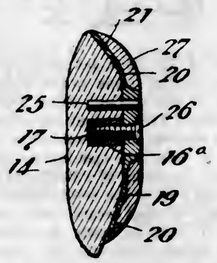
1. In a machine of the class described, an egg tray dished toward the center, a cylindrical reservoir extending upwardly from the tray and rigidly attached thereto, a removable cylinder arranged in the reservoir and spaced from the inner wall thereof, a pan positioned below said cylinder, an air moistening wick depending from the cylinder and extending into the pan, and heating means in the cylinder.

1,345,594. APPARATUS FOR PRODUCING PRESSED-METAL ARTICLES. ARNOLD GEOR, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Dec. 30, 1912, Serial No. 739,194. Divided and this application filed Oct. 27, 1917. Serial No. 198,767. 11 Claims. (Cl. 113—38.)



1. In an apparatus of the character described, the combination of a movable die member, a blank support, means for causing relative movement between said die member and said blank support, and means for moving the said die member, the last mentioned means, comprising a profiler having oppositely inclined portions controlling the movement of the die member toward and from the support.

1,345,595. DENTAL BRIDGEWORK. DAVID S. HIGHKIN, Baltimore, Md. Filed May 7, 1920. Serial No. 379,569. 5 Claims. (Cl. 32—12.)



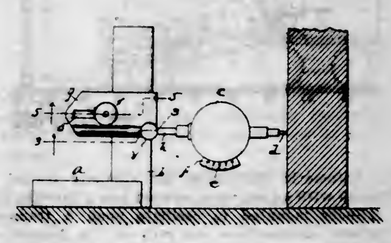
1. In dental bridgework, a facing provided with a threaded socket in its rear side and a second socket alongside the same, a backing having an opening that alines with the threaded socket, and a projection that enters the second socket, and a screw that passes through said opening in the backing and engages in the threaded socket to hold the backing and facing together.

1,345,596. APPARATUS FOR METALLURGICAL AND OTHER PURPOSES. HENRY B. HOVLAND, Zumbrota, Minn. Filed Feb. 2, 1918. Serial No. 215,161. 14 Claims. (Cl. 259—5.)



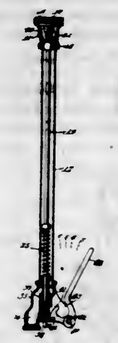
1. Apparatus of the character described, comprising a vertical self-centering agitator shaft normally revoluble about a fixed axis, means for permitting a pendulatory movement thereof, means for restraining such pendulatory movement, and means for rotating the shaft.

1,345,597. PERPENDICULARITY-INDICATOR. HUGO JANTSCH and WALTER E. GULDAGER, Detroit, Mich. Filed Mar. 1, 1919. Serial No. 279,936. 10 Claims. (Cl. 33—172.)



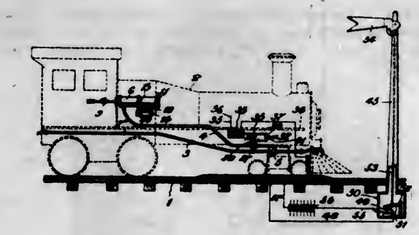
1. An instrument for measuring variations in perpendicularity, having in combination, a try-square, an indicator carrier provided with anti-friction members so as to be freely slidable longitudinally on one of the transverse arms of the try-square, the said indicator carrier being provided with an adjustable slide having anti-friction members and arranged so that the carrier may closely but slidably engage four different surfaces of the arm to secure the same in substantially non-rockable relation to the arm in sliding, and an indicator provided with a stem which responds to variations in the surface being tested and which reciprocates in a path that has a near-right angular relation to the path of travel of the carrier.

1,345,598. SPRAYER. OSCAR W. JOHNSON and ROBERT MILNE, Rockford, Ill., assignors to Ward Pump Company, Rockford, Ill., a Corporation of Illinois. Filed Jan. 29, 1918. Serial No. 214,337. 5 Claims. (Cl. 299—114.)



1. In a spraying device, the combination of a mixing chamber, a conduit for supplying liquid thereto, a valve in the conduit, means for causing the liquid to revolve in the chamber so as to be delivered therefrom in a relatively wide spray, valve controlled means for delivering liquid to the chamber separate from said continuous delivery thereto for varying the character of the discharge from the chamber, and means controlled from a common operating member having a double fulcrum for opening the first mentioned valve with a given leverage advantage whereby liquid will be delivered rotatably to the chamber and for subsequently operating said valve controlled means with less leverage advantage but greater movement to vary the character of the discharge.

1,345,599. AUTOMATIC MECHANISM FOR STOPPING TRAINS. SAMUEL P. JOHNSON, Longacre, W. Va. Filed June 28, 1919. Serial No. 307,347. 3 Claims. (Cl. 246—187.)



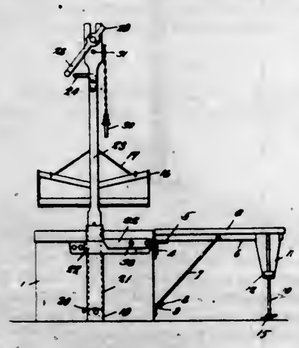
1. In automatic mechanism for stopping trains, the combination with an air brake system and a throttle lever, of a cylinder mounted to oscillate upon a transverse axis disposed intermediate the ends of the cylinder and provided with a piston connected with the throttle lever, a branch pipe leading from the train pipe and having a flexible connection with the cylinder at the throttle lever end thereof a valve included in the branch pipe, and means for opening the valve to reduce the train pipe pressure and apply the brakes and also to actuate the piston and close the throttle.

1,345,600. ARTIFICIAL BAIT. FRED C. KEELING, Rockford, Ill. Filed Oct. 15, 1919. Serial No. 330,686. 6 Claims. (Cl. 43—46.)



1. An artificial bait comprising an elongated body, a forwardly and downwardly inclined wing at the front of said body, a rearwardly and downwardly inclined wing at the rear portion of the body, and a part joining and holding said wings in fixed relative relation.

1,345,601. COLD-PACK COOKING DEVICE. CLELL S. KEPLER, Keosauqua, Iowa. Filed Sept. 5, 1919. Serial No. 321,770. 5 Claims. (Cl. 126—346.)



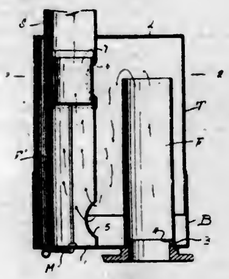
3. In a device of the class described, a receptacle, socket members pivotally mounted on the receptacle, a keeper embracing each of the socket members for limiting the swinging movement of the sockets, a latch on the keeper for locking the socket in one position, a frame carried by the sockets and a windlass mounted on the frame for moving material into the tank.

1,345,602. CURTAIN-WINDOW. GEORGE W. KERR, Racine, Wis. Filed May 2, 1919. Serial No. 294,148. 4 Claims. (Cl. 296—145.)



1. In an automobile curtain window, the combination, with a wooden frame having a visional opening and an outside fabric with an inner fabric lining attached to said frame, of a marginal metal frame having a continuous inwardly projecting flange forming a continuous metal frame lining for the visional opening, a transparent member inclosed within the limits of the flange and having its outer surface engaging the inner surface of the marginal frame, means for securing the marginal frame to the wooden frame, and an inner retainer member secured to the frame within the opening and engaging the inside of said transparent member.

1,345,603. HEATING-DRUM. EDWARD G. KLINGBEIL, Lander, Wyo. Filed Apr. 23, 1919. Serial No. 292,051. 1 Claim. (Cl. 257—172.)



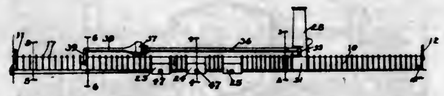
A heating drum of the class described comprising two separable sections having their outer ends closed, the closed end of one of the sections being provided with a pair of radially spaced flues, and at opposite sides of the axial center of the section, one of said flues being in communication with an induction opening in the closed end of said section, said flue being of a length to terminate inwardly of the closed end of the second section when said sections are assembled, the second flue being provided with openings in its wall adjacent the opposite ends of the flue, a thimble disposed through the closed end of the second section and in which an end portion of the second flue telescopically engages when the sections are assembled, said thimble being provided with an opening registering with the opening within said end portion of the second flue, the registering openings of the thimble and second flue being positioned adjacent the inner end of the first named flue, said openings being of a diameter to extend inwardly of said inner end of the first flue, a damper within the second flue for controlling said registering openings, and means extending through said second flue and exteriorly of the drum through the closed end of the first section for operating the damper.

1,345,604. [WITHDRAWN.]

1,345,605. TUNNEL-KILN. FRANCIS JOSEPH LEISEN, Metuchen, N. J., and EDWIN S. DUNN, Huntington, W. Va. Filed Jan. 31, 1919. Serial No. 274,319. 15 Claims. (Cl. 25—142.)

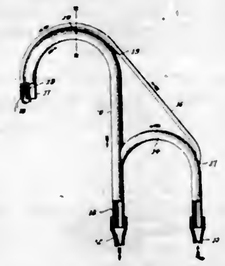
1. A kiln of the character described having a tunnel through which material to be burnt is intermittently moved from end to end, a series of fire zones spaced apart

in the length of the kiln and communicating at separate points with the tunnel thereof, and intermediate the ends of the latter, and a stack communicating with the tunnel



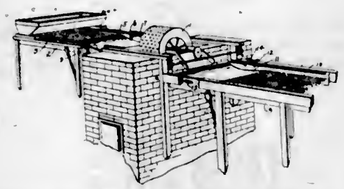
at a point between the series of fire zones and the exit end of the tunnel whereby to draw the heat products from the fire zones in the direction of movement of material through the tunnel from its entrance to its exit.

1,345,606. DENTAL APPLIANCE. JAMES P. LEONARD, Joliet, Ill. Filed Apr. 30, 1920. Serial No. 377,810. 8 Claims. (Cl. 32—23.)



1. A device of the class described comprising a hooked pipe adapted for resting in the mouth of a patient, a curved inlet pipe communicating therewith adapted for forcing fluid outwardly of the opposite end of said hooked pipe and a diluting tube communicating with the branch pipe and terminating adjacent the inlet end of the hooked pipe adapted for supplying water to the saliva being ejected.

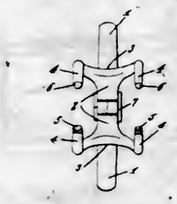
1,345,607. MACHINE FOR PREPARING FRUIT FOR DRYING. FRED E. LESTER, near San Jose, Calif. Filed Aug. 11, 1919. Serial No. 316,777. 1 Claim. (Cl. 146—14.)



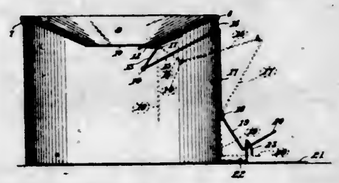
The combination with a machine for preparing fruit for drying including a dipper and a shaker device including screening means operatively mounted with relation to each other, of a fruit washing means comprising a shallow pan rigidly mounted on said shaker device adjacent said dipper and provided with a bottom curved in the direction of movement of the fruit passing thereover, means for discharging water into said pan and means for permitting the discharge of water from said pan whereby said water is caused to move over said pan with the movement of fruit passing thereover.

1,345,608. CROWN-SETTER. SAMUEL RILEY LEWIS, El Paso, Tex. Filed May 5, 1920. Serial No. 379,078. 1 Claim. (Cl. 32—10.)

A tool of the class described comprising crossed handles provided with jaws which are bifurcated to form inwardly extended fingers, the fingers of one jaw having concaved terminal recesses of different sizes and the fingers of the other jaw having convexed tips of different sizes corresponding to the recesses and coöperating therewith; and means for pivotally connecting the handles at their point of crossing.



1,345,609. CUSPIDOR. FRANK LIPAR, Trommald, Minn. Filed Mar. 12, 1920. Serial No. 365,281. 2 Claims (Cl. 4—39.)



1. A cuspidor including a vessel having a centrally apertured top wall member, a closure plate hinged at one side to the under side of said top wall member so as to swing downwardly to a vertical or inclined open position, means to yieldably maintain the closure in upwardly swung substantially horizontally closed position, an arm fixed to said closure adjacent the pivot thereof and extending downwardly therefrom, a foot lever pivoted to and exteriorly of said receptacle and having the upper end of one arm thereof positioned adjacent the top edge of said receptacle, a link pivoted to the lower end of said first named arm and to the upper end of said arm of the foot lever, a pedal upon the lower end of said foot lever adapted to be pressed downwardly for swinging said closure downwardly to an open position, and means for automatically engaging said foot pedal when the same is depressed beyond a predetermined extent for retaining the latter depressed with said closure in opening position.

1,345,610. VESSEL. ALEXANDER MCDOUGALL, Duluth, Minn. Filed July 29, 1918. Serial No. 247,100. 1 Claim. (Cl. 114—187.)

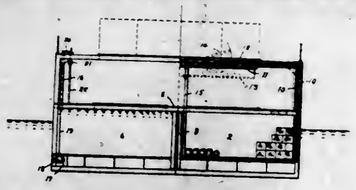


An auxiliary smoke stack for sea-going canal boats comprising a plurality of metal plates united at their longer sides and one of the plates being pivotally attached to the deck of the boat whereby the stack may be collapsed and folded upon the deck.

1,345,611. VESSEL. ALEXANDER MCDOUGALL, Duluth, Minn. Filed July 21, 1919. Serial No. 312,244. 2 Claims. (Cl. 114—72.)

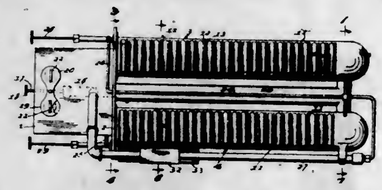
1. The combination with a vessel of the character described having a double bottom or tank in the hold thereof and compartments above the tank suitable for the reception of water for ballast, of a well in each of the com-

partments, below the tank top and communicating with the former, a sea valve within the well, opening there-



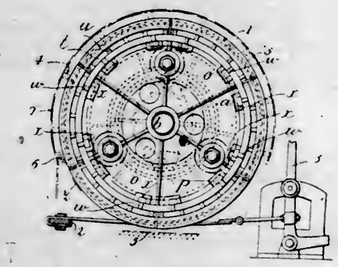
into and communicating with the water outside of the vessel, and means for opening and closing the valve from the deck of the vessel.

1,345,612. OIL-BURNER. CLYDE J. MCNERNY, Memphis, Tenn., assignor to Henry Loeb and Henry Hurst, Memphis, Tenn. Filed Mar. 16, 1918. Serial No. 222,813. 3 Claims. (Cl. 158—65.)



1. An oil burner comprising a mixing chamber, elongated burners carried thereby, a centrally disposed tube interposed between the burners and communicating with them at one end and with the mixing chamber at the other end, longitudinally disposed partitions in the burners dividing them into upper and lower chambers, the partitions having openings whereby the two chambers may communicate, and means for supplying fuel to the central tube.

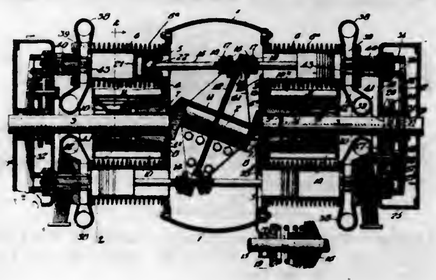
1,345,613. WINCH. GEORGE THOMAS MACFARLANE, Pinner, England. Original application filed May 22, 1917, Serial No. 170,123. Divided and this application filed Mar. 25, 1918. Serial No. 224,555. 4 Claims. (Cl. 188—218.)



1. In a winch, a brake drum formed with T-shaped slots near the periphery thereof, a brake rim built up of renewable sections on said drum, bolts the heads of which engage the T-shaped slots of said brake drum for fixing said rim sections on said drum, and vanes between the periphery of said brake drum and said rim.

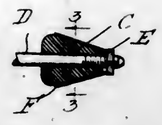
1,345,614. INTERNAL-COMBUSTION ENGINE. CHARLES CAREY MANKER, Des Moines, Iowa, assignor of one-half to J. B. Fayant, Golconda, Nev. Filed July 18, 1918. Serial No. 245,544. 4 Claims. (Cl. 121—119.)

1. In an internal combustion engine, a crank shaft, a wabbler mounted on said crank shaft, a series of cylinders disposed parallel to said crank shaft, each of said cylinders having a piston rod arranged to pass through a portion



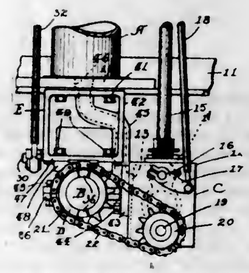
of said wabbler and thrust cones carried by said piston rod on each side of the wabbler for transmitting the movement of the piston to the wabbler.

1,345,615. FAUCET. ROBERT W. MASKE, Chicago, Ill. Filed Oct. 16, 1918. Serial No. 258,331. 3 Claims. (Cl. 251—159.)



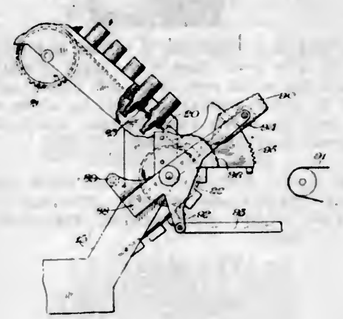
2. In a faucet having a valve-seat, a reciprocable valve-stem, a rubber valve through which the latter passes, and a nut on said stem between which and said valve-seat the valve is confined when seated, said valve having a tapered body portion terminating contiguous to said nut, a hollow truncated cone bearing at its smaller end against said nut and projecting over and engaging said tapered body of said valve and adapted to crowd upon the latter when the same is forced to its seat, there being normally a free space in the smaller end of said cone, the latter being unyielding in response to pressure exerted thereon when said valve is forced to its seat.

1,345,616. MANIFOLD-BRACKET FOR HYDRAULIC HOISTS. CHARLES E. MASON, Detroit, Mich., assignor to Grant Waldref, St. Paul, Minn. Filed Nov. 3, 1919. Serial No. 335,548. 3 Claims. (Cl. 298—1.)



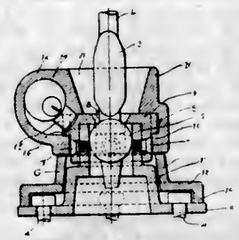
1. In combination with a hoist cylinder, a drive shaft disposed below said cylinder, a clutch mounted upon said shaft, a pump arranged at one side of the shaft having operating connection with said clutch and a clutch actuator, a manifold bracket having members arranged to support said pump, clutch and clutch actuator in said position and a duct in said bracket leading downwardly from said cylinder into the side of said pump.

1,345,617. LOADER FOR BOTTLE-WASHERS. GEORGE J. MEYER, Milwaukee, Wis., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Original application filed Nov. 22, 1915, Serial No. 62,706. Divided and this application filed June 9, 1919. Serial No. 302,881. 2 Claims. (Cl. 214—91.)



1. In a bottle washing machine having a traveling bottle conveyer, a swinging frame, a bottle chute pivotally mounted on the swinging frame and forming pockets to receive the bottles in the lower position of the swinging frame, means for inverting the chute during the movement of the swinging frame, a guide for preventing the bottles falling out of the inverted chute until in position for delivery to the conveyer, and means for swinging the frame.

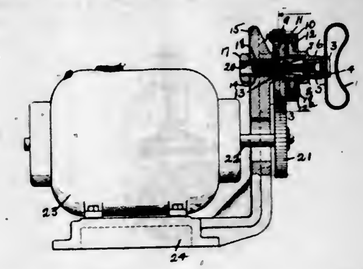
1,345,618. LOCKING DEVICE FOR LEVERS. YUSKE MIYASAKI, McKees Rocks, Pa. Filed Sept. 29, 1919. Serial No. 327,041. 4 Claims. (Cl. 70—128.)



2. In combination with a housing, securing means therefor, and a lever extending through the housing and fulcrumed therein for universal movement, a locking member rotatably engaged with the housing and serving, when in one position, to maintain the lever against universal movement and a guard member independent of the locking member surrounding the housing inwardly of the locking member and overlying the securing means for the housing.

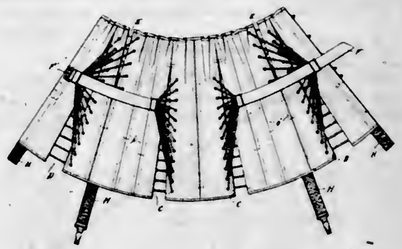
1,345,619. WRENCH MECHANISM. JOSEPH G. MOOMY, Erie, Pa. Feb. 28, 1919. Serial No. 279,760. 3 Claims. (Cl. 81—56.)

1. In a wrench mechanism, the combination of a driving wrench; a yielding drive mechanism having a predetermined driving engagement for said driving wrench; and a holding wrench, the holding wrench being mounted with



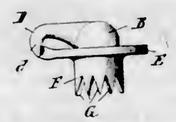
relation to the driving wrench to hold a screw on which a nut is being driven by the driving wrench.

1,345,620. MATERNITY-CORSET. CHARLES MUNTER, New York, N. Y. Filed Dec. 5, 1917. Serial No. 205,623. 9 Claims. (Cl. 2—73.)



9. A maternity corset having a body portion provided in the front thereof with a plurality of openings extending upwardly from the lower edge of the opening and downwardly from the upper edge thereof, and belt operated lacings associated with said openings.

1,345,621. HOOK OR STUD. CHARLES MUNTER, New York, N. Y. Filed Dec. 5, 1917. Serial No. 205,628. 3 Claims. (Cl. 24—146.)



1. A stud or hook embodying an attaching portion provided with a socket, a resilient hook shaped portion integral with the attaching portion and provided with a ball shaped end extending an appreciable distance into the socket, said ball shaped end being of substantially the same diameter as the diameter of the socket, whereby a constructed annular space is left between the ball shaped end and the wall of the socket, through which space a lace is adapted to be passed into engagement with the hook shaped portion, said hook shaped portion yielding slightly to allow of the passage of the lace between the ball shaped end and the wall of the socket.

1,345,622. CASTER. PETER R. NACK, St. Louis, Mo. Filed Mar. 24, 1919. Serial No. 284,815. 4 Claims. (Cl. 16—4.)

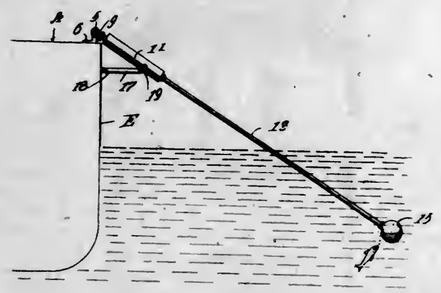
2. A caster provided with a leg, a horizontally disposed foot pivoted to said leg, the bottom of the pivoted

foot being provided with a horizontal track, and a flexible endless shoe whereby said pivoted foot is separated from



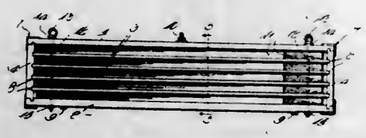
the floor over which the caster travels, said endless shoe surrounding said pivoted foot so as to travel along said horizontal track.

1,345,623. TORPEDO-DEFENSE. EUSEBI NAZZARENO, Telluride, Colo. Filed Apr. 24, 1918, Serial No. 230,514. Renewed Apr. 16, 1920. Serial No. 374,492. 3 Claims. (Cl. 114—240.)



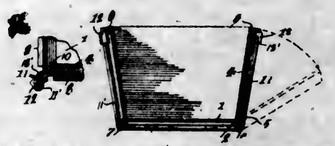
1. A torpedo defense for boats, which comprises a plurality of pivotally mounted hollow arms carrying a bomb at their outer ends, enlargements formed on the inner portion of the arm, means for admitting fluid to the enlargements and arms, and electrical means for exploding the bombs.

1,345,624. CLOTHES-HANGER CABINET. JOHN HENRY NELSON, New Castle, Pa. Filed Aug. 4, 1919. Serial No. 315,254. 1 Claim. (Cl. 68—34.)



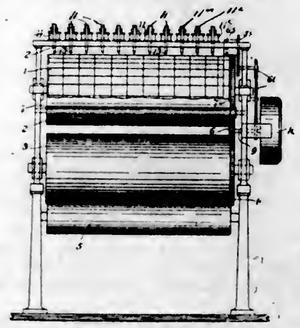
In a foldable clothes-hanger, the combination of a box including end walls, a cover-plate, a floor-plate, partition-plates extending from one to the other of the end walls and engaged therewith in a manner to secure them against relative vertical movement, series of supporting bars arranged in alternate relation with said plates and having their upper and lower surfaces slidably fitted against the lower and upper surfaces of said plates, and rods extending through said plates and bars and coacting with said end walls to secure the plates in fixed relation to one another and to pivotally secure said bars to said plates, each of said rods being formed with a loop at its upper end for receiving a suspending element.

1,345,625. BAKE-PAN. JOHN J. O'DONNELL, Middletown, Conn. Filed June 4, 1919. Serial No. 301,787. 5 Claims. (Cl. 53—6.)



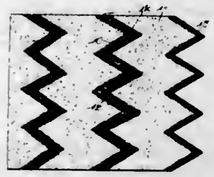
4. A bake pan comprising a bottom and side panels hinged at their lower edges to the edges of said bottom, outturned lips at the ends of the side panels, each being adapted to contact with the adjacent lip of the adjacent panel when the panels stand upright, and means connecting said pairs of lips together.

1,345,626. RECORDING APPARATUS. RODOLPH STUART O'NEIL, London, England. Filed Apr. 11, 1917. Serial No. 161,366. 9 Claims. (Cl. 234—27.5.)



1. A device for recording the position of an engine telegraph or analogous instrument and other data at any given time comprising a continuously moving chart driven at a predetermined speed by means of a clock, a number of magnetically operated recording pencils electrically associated with the telegraph instrument and operating to record by means of lines traced upon particular parts of the chart the orders given, a pair of magnetically operated pencils electrically associated with the engine and controlled by the rotation of the engine and the position of the weigh shaft and operating to record by means of lines traced upon particular parts of the chart the direction of running of the engine, and a further magnetically operated pencil associated with a moving part of the engine for recording by means of marks intermittently made upon the chart the speed of running whereby a continuous and indisputable record of the orders given is obtained.

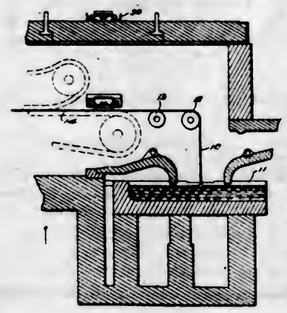
1,345,627. ROOF-COVERING. FREDERICK C. OVERBURY, Hillsdale, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed July 29, 1915. Serial No. 42,627. 7 Claims. (Cl. 108—7.)



1. As a new article of manufacture, a shingle strip formed of waterproofed fibrous material and having

spaced tabs or projections, and adapted to be laid with others in overlapping rows in simulation of shingles, said strip being coated in different fields with grit of contrasting colors, the darker colored grit being laid in strips or bands adjacent the edges of said tabs to give the appearance of thickness thereto and the lighter colored grit covering the remaining fields.

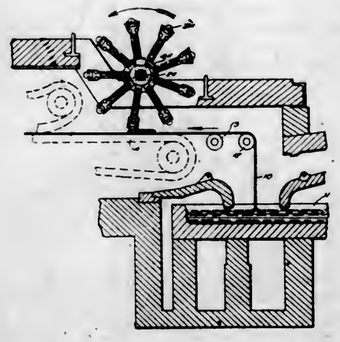
1,345,628. MAKING SHEET-GLASS. MICHAEL J. OWENS, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 6, 1919. Serial No. 269,746. 14 Claims. (Cl. 49—3.)



1. The combination with means for drawing a sheet of glass, of a bending roll over which the glass is drawn, and a flattening device moving transversely over the surface of the glass after it passes beyond the bending roll.

7. The method which consists in continuously drawing a sheet of glass from a pool of molten glass over a support, cooling the sheet before it reaches said support and thereby causing a surface glaze to form thereon which will not be marred by its contact with said support, and sliding a flattening device over the surface beyond said support, thereby flattening the sheet.

1,345,629. MEANS FOR MAKING SHEET-GLASS. MICHAEL J. OWENS, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 25, 1919. Serial No. 306,592. 11 Claims. (Cl. 49—3.)



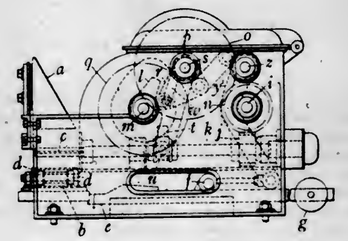
1. The combination with means for drawing a sheet of glass, of a bending roll over which the glass is drawn, and a flattening device moving over the surface of the glass in a direction lengthwise thereof.

1,345,630. PRESSURE-GAGE. JOSIAH W. PLACE, New York, N. Y., assignor to United States Gauge Co., New York, N. Y., a Corporation of New York. Filed Jan. 19, 1920. Serial No. 352,483. 3 Claims. (Cl. 73—109.)



1. In a pressure gage, a nipple threaded on its outside and constructed to form a socket for a Bourdon tube, a Bourdon tube formed separately from said nipple and having a curved flattened portion and a straight tubular portion bent at an angle relatively to the curved portion, said straight portion projecting through said nipple and accessible at both ends thereof for soldering, and means carried by the nipple constituting a mounting for gage mechanism.

1,345,631. DOUGH-MOLDING MACHINE. JOHN EDWARD POINTON, Peterborough, England. Filed Sept. 27, 1919. Serial No. 326,708. 2 Claims. (Cl. 107—9.)



1. Machines for the coiling of lumps or unshaped portions of dough without prior sheeting or stretching of the same, comprising coiling spindles, chutes through which the said dough lumps fall freely into engagement with the said spindles, means for maintaining the said engagement during the coiling operation, and means for withdrawing the spindles from the dough, as set forth.

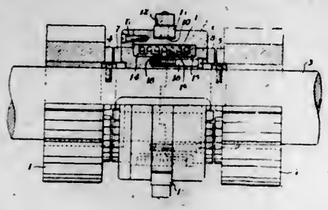
1,345,632. LIGHT-WEIGHT REFRACTORY BRICK. ROSS C. PURDY and MILTON F. BEECHER, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 1, 1918. Serial No. 260,755. 9 Claims. (Cl. 106—10.)

2. A composition of matter for a porous brick comprising a burned refractory lignite clay mass.

1,345,633. CLUTCH MECHANISM. LEWIS M. PYLE, Bryn Mawr, Pa., assignor to Niles-Bement-Pond Co., New York, N. Y., a Corporation of New Jersey. Filed Oct. 15, 1919. Serial No. 330,821. 10 Claims. (Cl. 74—59.)

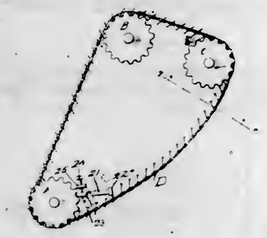
1. The combination in a clutch mechanism of two differently rotating coaxial toothed driving elements, a rotatable axially movable driven element mounted between the

driving elements and having two sets of teeth adapted to respectively mesh with the teeth of the two driving elements, an axially movable operating collar surrounding



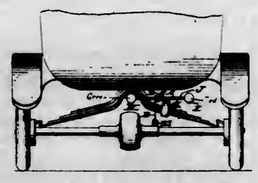
the driven element and concentric therewith, and a spring interposed between the driven element and the collar for resiliently connecting the former with the latter.

1,345,634. CONVEYER. JOHN RAYMOND, Jr., Springfield, Vt. Filed June 14, 1919. Serial No. 304,247. 7 Claims. (Cl. 193—8.)



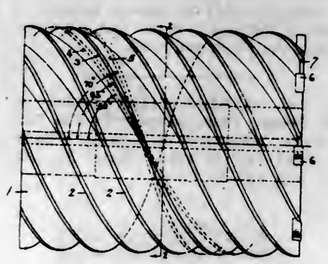
1. In a device of the type described, a conveyer belt comprising slats suitably connected together and provided with openings in the faces thereof, pins mounted in said openings and resiliently held with their operative ends withdrawn within said slats, means for forcing the pins varying distances through said openings into operative position, means for holding the pins in operative position, and means for withdrawing said holding means.

1,345,635. SPEED-CHANGE INDICATOR FOR VEHICLES. HENRY REKERSDRES, Detroit, Mich. Filed June 13, 1919. Serial No. 303,853. 6 Claims. (Cl. 116—57.)



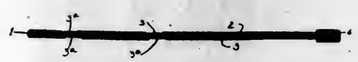
1. In a device of the character described, a movable mass adapted for attachment to a vehicle and to change its position due to the movement of the vehicle and the increasing or diminishing motion of acceleration of the latter, and an independently pivoted indicator operatively connected with said movable mass and consisting of a bar provided at its ends with separate indicating means to indicate to persons remote from the vehicle the direction of and the proportional magnitude of the increasing or decreasing acceleration of the vehicle.

1,345,636. MILLING-CUTTER. JOHN M. RICHARDS, Beaver Falls, Pa. Filed Apr. 23, 1917. Serial No. 163,939. 2 Claims. (Cl. 29—103.)



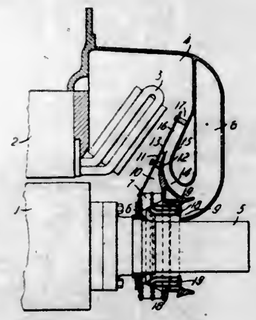
1. A rotary cutter, the angular advance of whose cutting edge is substantially 65°.

1,345,637. KNIFE. EUGENE SÁRKÖZY, New York, N. Y. Filed Oct. 21, 1916, Serial No. 127,004. Renewed Dec. 1, 1919. Serial No. 341,794. 3 Claims. (Cl. 30—9.)



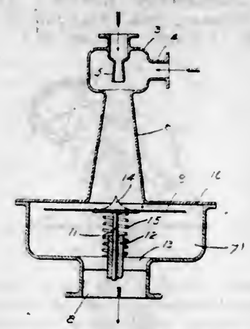
1. A knife comprising handle members having projecting hooks adapted to engage with each other, the hooks of one handle member extending in a direction opposite to that in which the hooks of the other handle member extend and a blade adapted to be held between said handle members, said blade having slots through which said hooks are adapted to project.

1,345,638. VENTILATING APPARATUS. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 13, 1914. Serial No. 850,804. 8 Claims. (Cl. 230—11.)



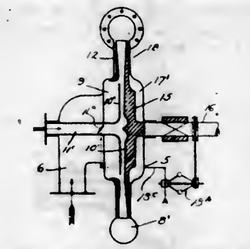
1. A blower comprising a rotatably mounted impeller and a stationary casing for said impeller, the said casing embodying air inlet and discharge chambers, a channel receiving fluid discharged from the impeller and communicating with the discharge chamber and a channel communicating with the first named channel and with the inlet chamber whereby air from said inlet chamber is caused to divide and pass partly through the blower and partly through the last named channel.

1,345,639. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914. Serial No. 861,628. 9 Claims. (Cl. 230—13.)



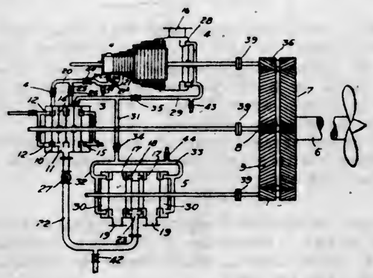
4. In combination with an ejector, a disk movably mounted at the outlet of the ejector diffuser, and coöperating therewith to form an expansion nozzle for the fluid issuing from the ejector.

1,345,640. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914. Serial No. 861,638. 14 Claims. (Cl. 230—14.)



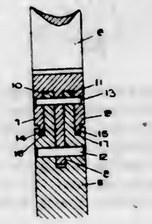
1. In combination in an apparatus of the character described, a chamber having an inlet port for medium to be compressed, means for discharging an annular jet of impelling fluid through said chamber, and means actuated by the jet, for entraining medium located within the chamber.

1,345,641. MARINE TURBINE. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 27, 1916. Serial No. 122,506. 22 Claims. (Cl. 60—70.)



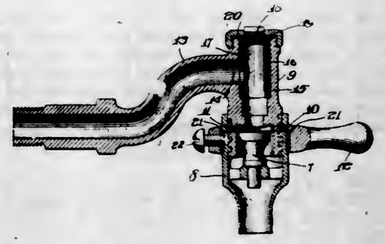
1. A turbine unit comprising a high pressure section adapted to pass all fluid required under full power conditions and two low pressure sections, a separate shaft driven by each section, and means for delivering motive fluid from one stage of the high pressure section to one low pressure section, and from another stage of the high pressure section to the other low pressure section under full power conditions.

1,345,642. BLADE-MOUNTING. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Mar. 31, 1917, Serial No. 158,977. Divided and this application filed June 22, 1918. Serial No. 241,433. 2 Claims. (Cl. 253—77.)



1. A blade mounting comprising a blade shank provided with at least three tongues adapted to interleave with at least two tongues provided upon a blade carrying element, the free ends of the outer tongues having interlocking engagement with the adjacent portion of the inner tongues for preventing lateral displacement of the outer tongues, and means for preventing separation of the joint in a longitudinal direction.

1,345,643. FAUCET CONTROL. JOSEPH W. SHARP, Jr., Berwyn, Pa., assignor to Haines, Jones & Cadbury Incorporated, a Corporation of Pennsylvania. Filed Mar. 16, 1917. Serial No. 155,157. 1 Claim. (Cl. 277—66.)



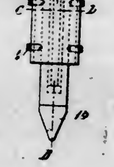
In a faucet, the combination of a tubular neck portion and a vertically extending cylindrical portion or housing integral therewith, said housing portion having an enlarged bore in its upper extension and a valve seat near its lower end, a cylindrical valve member seated in said enlarged bore, open at the bottom and closed at the top and provided with a port adapted to register with the bore of the neck portion, a nozzle member threaded on the lower end of the housing and provided with peripheral projections, a valve member mounted within the nozzle member, and a nozzle-actuating member having a portion surrounding the nozzle member and provided with an inwardly extending peripheral flange for engaging said projections, said actuating member also provided with means for engaging the nozzle member between adjacent projections.

1,345,644. TIRE-TURNING DEVICE. FRANK SOUTHWICK, Kansas City, Kans., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 28, 1919. Serial No. 320,381. 7 Claims. (Cl. 82—40.)



1. The combination with a wheel lathe face plate, of a plurality of brackets secured to the face plate and adapted to engage a tire at the side opposite the face plate and at a fixed predetermined distance therefrom, and a plurality of drivers carried by the face plate and adapted to engage the tire at the side adjacent the face plate and to press the tire laterally against the said brackets.

1,345,645. ELECTRIC SOLDERING-IRON. OTTO STÅLHANE and OLOF OSKAR KRING, Djursholm, Sweden. Filed Apr. 3, 1919. Serial No. 287,327. 3 Claims. (Cl. 219—26.)



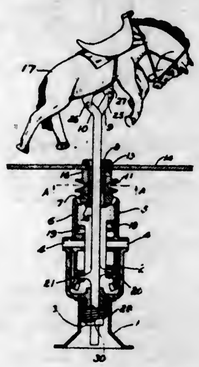
1. An electric soldering bolt or iron of the class described, consisting of a soldering bolt provided with a cavity or chamber, resistance heating elements arranged within a tube or tubes of refractory electrically insulating material inserted in the said cavity, said tube or tubes together with a resistance element forming together a technical unit removably arranged within said cavity.

1,345,646. RAILWAY ELECTRIC TRACK-CIRCUIT SYSTEM. REUBEN WILLIAM TARRANT, London, England. Filed Nov. 4, 1919. Serial No. 335,697. 5 Claims. (Cl. 246—34.)



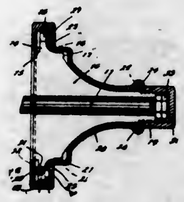
1. In a railway electric track-circuit which includes on the one hand the winding of a traffic-controlling relay interposed in series between the track-rails at one end of a track-section and on the other hand a source of continuous current, an electromagnet winding, and a normally-closed switch controlled thereby, all interposed in series between the track-rails at the opposite end of the track-section, the combination of a core for said electromagnet winding, and an armature therefor, formed by a vibratory reed which is mechanically and magnetically integral with said core and which also constitutes said switch; substantially as and for the purpose set forth.

1,345,647. AMUSEMENT DEVICE. ANDREW MCK. WATERS, Cincinnati, Ohio. Filed July 25, 1919. Serial No. 313,292. 4 Claims. (Cl. 46—27.)



1. An amusement device, including a base, a supporting pedestal swiveled in said base, means to simultaneously raise or lower and tilt said amusement device, and torsion means connecting said base and said supporting pedestal.

1,345,648. WHEEL-HUB. EDGAR P. WEBSTER, Bridgeport, Conn. Filed June 23, 1917. Serial No. 176,496. 6 Claims. (Cl. 21—31.)



6. In a hub for detachable wheels, the combination of a wheel hub member, an outer member adapted to engage said wheel hub member, means adapted to prevent relative turning movement of said members in their engaged relation, and rotatable retaining means adapted to be rotated into locking relation with said members to prevent axial movement of said members relatively to each other, said retaining means being yieldable axially independently of said rotation to permit of said rotation of said retaining means.

1,345,649. PROCESS FOR THE MANUFACTURE OF OXYALDEHYDES AND OF THEIR ETHERS. ANDRÉ WEISS, Lyon, France, assignor to Societe Chimique des Usines du Rhone, Anciennement Gilliard P. Monnet et Cartier, Paris, France. Filed Jan. 17, 1920. Serial No. 352,088. 3 Claims. (Cl. 23—24.)

1. A process of manufacture of oxyaldehydes consisting in treating a mixture of a phenol and formaldehyde with a nitroso-compound.

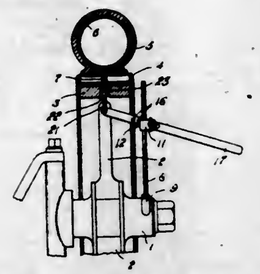
1,345,650. WIRE-FENCE ANCHORING AND SUPPORTING STAKE. BERNDHART L. WESSELS, Woodhaven, N. Y. Filed Sept. 1, 1917. Serial No. 189,282. 1 Claim. (Cl. 189—92.)

An article of manufacture consisting of an upright anchoring drivable fence stay for a wire fence composed of a driving solid head and two straight parallel rigid bars spaced apart the width of a fence wire, integrally united at their upper ends with said head and provided at their lower ends with broad beveled blades disposed parallel with said space, the upper portion of said stay being



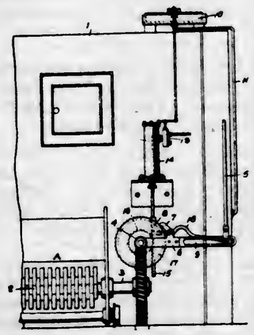
adapted to hold in said slot a series of fence wires and the lower portion thereof being adapted to be driven into the earth and serve as an upright anchor for the stay, said lower portion being provided on the outer faces of its bars with a vertical series of wedge-like teeth in parallel relation with said blades.

1,345,651. VALVE-STEM TOOL. HAROLD J. WILGUS, Canton, Ohio. Filed Aug. 1, 1919. Serial No. 314,775. 5 Claims. (Cl. 29—84.1.)



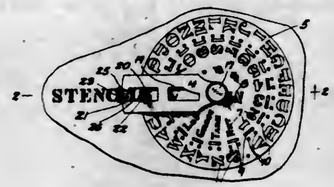
1. A valve stem tool, including a standard, a curved yoke upon the standard adapted to fit the hub of a wheel, a lever pivotally connected to the standard intermediate its ends and a valve stem engaging member provided upon one end of the lever.

1,345,652. FURNACE CONSTRUCTION. JOSEPH F. TUTEIN, Crafton, Pa. Filed Nov. 29, 1919. Serial No. 341,467. 9 Claims. (Cl. 236—15.)



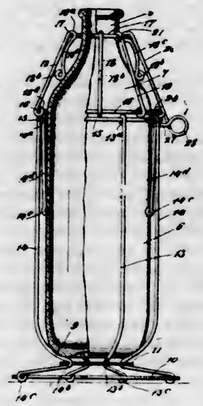
1. In a furnace structure the combination, with a furnace chamber, a mechanical fuel feed, and a speed-changing device applied to said fuel feed, of an automatic control for said speed-changing device including a movable element subject in opposite directions to furnace-chamber pressure and to atmospheric pressure, substantially as described.

1,345,653. STENCIL. LEO WALLENSTEIN, Brooklyn, N. Y. Filed Apr. 5, 1920. Serial No. 371,208. 7 Claims. (Cl. 101—112.)



1. A stencil of the class described comprising a stencil element provided with stencil letters, numerals and characters, a guide and alinement member movably mounted in connection with said stencil element and provided with apertures adapted to register with the separate letters, numerals and characters of the stencil element, and said member being provided outwardly of the periphery of said element with a guide and alinement aperture.

1,345,654. WIRE PROTECTOR FOR NURSING-BOTTLES. EVERETT K. WOLFE, Westchester, N. Y. Filed Apr. 5, 1918. Serial No. 226,805. 3 Claims. (Cl. 215—3.)

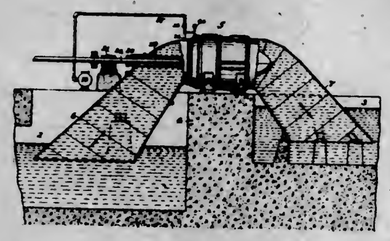


1. In a wire protector for nursing bottles the combination of a pair of wire cage members fitted together in order to inclose a bottle, one of said wire cage members having a ring, and a number of separate pieces of spring wire each bent partially around said ring, each of said separate pieces of spring wire being provided with a portion extending inwardly from said ring and terminating abruptly, said portion being at its end bent into an eye, and so disposed that the edge of said eye presses directly against the adjacent surface of the bottle.

1,345,655. SCREW-PUMP. ALBERT BALDWIN WOOD, New Orleans, La. Filed July 3, 1913. Serial No. 777,174. 16 Claims. (Cl. 103—43.)

1. In a screw pump, an outer tubular casing having an inlet and an outlet at opposite ends, combined with an inner body forming an inclosed chamber and rigidly positioned centrally of the casing and having an axially arranged stuffing-box, a line bearing secured within the chamber of the inner body, a line bearing positioned ex-

terior to the chamber of the inner body, an impeller shaft extending through the stuffing-box and journaled in the line bearings within and without the inner body, a hub secured to the impeller shaft outside of the inner body and close to the stuffing-box and arranged between the two bearings, and impelling blades secured to the hub.



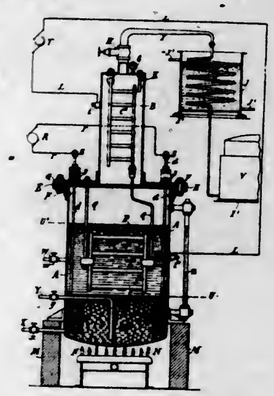
2. The combination of supply and discharge conduits arranged to respectively contain water at different levels, a screw pump supported at a level above the water in the supply conduit and having an intake passage leading downward from the pump and opening into the conduit below the water level therein and also arranged to discharge into the discharge conduit, an inner closed hollow body centrally arranged in the casing to provide an annular water passage between it and the casing of the pump provided with a stuffing-box at one end, bracing means between the casing and the inner body and extending across the annular water passage for the purpose of rigidly holding the hollow body in central position, an impeller shaft extending through the stuffing-box and into the chamber of the closed hollow body, an impeller carried by the shaft outside of the closed hollow body and beyond the stuffing-box, and a bearing for the shaft arranged within the chamber of the closed hollow body and shielded thereby.

3. In a screw pump, the combination of an outer casing having at one end an intake passage and at the other end a discharge passage, an inner body arranged within the outer casing forming an annular water passage between the said casing and body and provided at one end with a stuffing-box said chamber also having centrally therein a line bearing, a tubular manhole opening from the chamber within the inner body to the outside of the casing, rigid braces between the outer casing and the inner body arranged in the annular water passage for rigidly securing the inner body in position, an impeller shaft journaled in the bearing in the inclosed chamber and extending through the stuffing-box thereof, and an impeller secured to the shaft adjacent to the end of the inner body and having an annular conical passage for water provided with impelling blades for forcing the water through the annular passage between the inner body and the outer casing.

4. In a screw pump, the combination of an outer casing having at one end an intake passage and at the other end a discharge passage, an inner body arranged within the outer casing forming an annular water passage between the said casing and body and provided at one end with a stuffing-box said chamber also having centrally therein a line bearing, a thrust bearing also arranged within the chamber of the inner body and in axial alinement with the line bearing and stuffing-box, a tubular manhole opening from the chamber within the inner body to the outside of the casing, rigid braces between the outer casing and the inner body arranged in the annular water passage for rigidly securing the inner body in position, an impeller shaft journaled in the bearing in the inclosed chamber and extending through the stuffing-box thereof and having its end adapted to coöperate with the thrust bearing, and an impeller secured to the shaft adjacent to the end of the inner body and having an annular conical passage for water provided with impelling blades for forcing the water through the annular passage between the inner body and the outer casing.

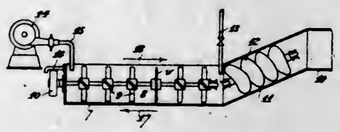
5. In a screw pump, the combination of an outer casing having at one end an intake passage and at the other end a discharge passage, an inner body arranged within the outer casing forming an annular water passage between the said casing and body and provided at one end with a stuffing-box said chamber also having centrally therein a line bearing, a tubular manhole opening from the chamber within the inner body to the outside of the casing, rigid braces between the outer casing and the inner body arranged in the annular water passage for rigidly securing the inner body in position, an impeller shaft journaled in the bearing in the inclosed chamber and extending through the stuffing-box thereof, an impeller secured to the shaft adjacent to the end of the inner body and having an annular conical passage for water provided with impelling blades for forcing the water through the annular passage between the inner body and the outer casing, and an annular diffusion ring tightly fitting between the outer casing and the inner body and centralizing the latter within the outer casing said diffusion ring having blades for causing the rotating water which leaves the impeller to flow in a more or less longitudinal direction through the annular passage of the pump.

1,345,656. APPARATUS FOR PRODUCING LIGHT HYDROCARBONS. JOHN A. YUNCK, South Orange, N. J. Filed Oct. 15, 1918. Serial No. 258,283. 9 Claims. (Cl. 204—31.)



1. In an apparatus for increasing the amount of light hydrocarbon fluids obtainable from a given quantity of native hydrocarbon oil or residuum the combination, with a closed retort for holding the materials, of electrical heating means located in said retort interior comprising a plurality of resistors, one of which is located in the retort space for fluids, and another in the retort space for vapors, and an electric circuit including said resistors.

1,345,657. METHOD OF CRYSTALLIZING MARGARIN. ANDERS CARL AUGUST ZEUTHEN and MARTIN LARSEN, Silkeborg, Denmark. Filed Apr. 3, 1917. Serial No. 159,597. 5 Claims. (Cl. 99—13.)



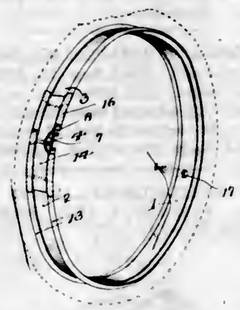
1. A method of crystallizing margarin, which consists in causing the emulsion and a cooling agent to travel through a common course and transversely moving the emulsion and cooling agent relative to each other during such travel.

1,345,658. HAND SCRAPING-TOOL. CARL L. AAGAARD, Rockford, Ill. Filed Mar. 12, 1919. Serial No. 282,238. 11 Claims. (Cl. 279—53.)



1. A scraper comprising a handle equipped with a blade holder having a blade opening and inner walls converging toward said opening, a blade slidable through said opening, an exteriorly threaded member interposed at one end between the blade and one of said converging walls, a nut on said member adjustable to force the same into wedging engagement with said wall and thereby rigidly secure the blade to the holder, the blade being adjustable lengthwise independently of the threaded member, and a second nut on the threaded member providing an end thrust seat for the inner end of the blade and adjustable lengthwise on said member to determine the position of the blade as regards inward movement.

1,345,659. AUTOMOBILE-TIRE RIM. JOHN A. BEDDINGFIELD, Macon, Ga., assignor of one-half to R. Douglas Feagin, Macon, Ga. Filed Sept. 26, 1919. Serial No. 326,584. 3 Claims. (Cl. 152—21.)

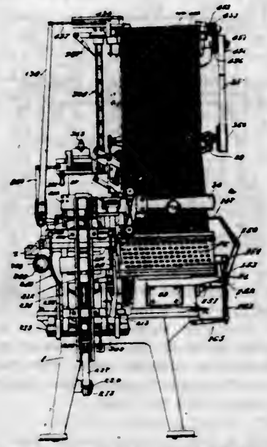


1. A tire supporting rim comprising a section having an open portion or gap therein, and a detachable rim section composed of relatively short sections hinged together at their meeting ends, said detachable rim section being arranged to operate as a toggle, and having free ends extending into and secured within the aforesaid open portion for completing the rim.

1,345,660. BAROTYPE-MACHINE. HERBERT E. BROWN, Sterling, Ill., assignor, by mesne assignments, to Brown Barotype Company, Chicago, Ill., a Corporation of Illinois. Filed May 23, 1913, Serial No. 769,778. Renewed Oct. 18, 1919. Serial No. 331,746. 32 Claims. (Cl. 199—18.)

1. In a device of the class described, a matrix storage magazine comprising a plurality of parallel vertical chutes to receive the matrices, escapement devices at the lower ends of said chutes and the bottom edge of the magazine arranged in right angular offsets or staggers to bring the said escapement devices in a plurality of groups in different horizontal planes.

10. In a device of the class described, an escapement device for releasing the matrices from their stored position comprising a pivoted lower pawl provided with an extension near its pivot and an upper pivoted pawl arranged to be engaged by said extension on the lower pawl, so arranged that the weight of the gravitating matrix tends to move the pawls out of its path and that only one pawl is in the path of the gravitating matrix at a time and means comprising a toggle for normally holding the lower pawl in the path of the gravitating matrix and for actuating said pawl.

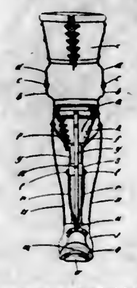


13. In a device of the class described, means for assembling matrices comprising assembling rails between and onto which the matrices gravitate, a retarding finger in the path of the assembled matrices at the head end, a reciprocating finger to feed the matrices along on said rails at the rear end and means for yieldingly pushing the last named finger against the assembled line of matrices.

21. In a device of the class described, assembling mechanism for the matrices, an elevator to receive the assembled line from the assembling mechanism, means for transferring the assembled line of matrices from the assembling mechanism to the elevator and means comprising a vertically moving latch whereby the said transferring mechanism is automatically locked against operation when the assembled line is over set or too long.

31. In a device of the class described, a pivoted hopper for separating the space-bands from the matrices in the assembled line comprising a pair of spaced plates provided with grooves on their opposing sides and mounted to swing on concentric horizontal pivots and means for normally yieldingly holding said plates up in an inclined position.

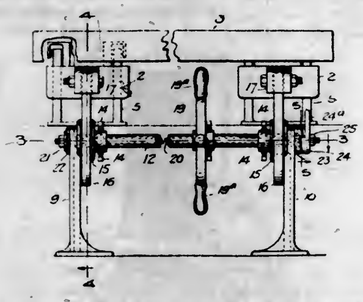
1,345,661. ARTIFICIAL LIMB. FREDERICK JOHN STAVELEY BULFORD, Maidenhead, England. Filed Aug. 29, 1919. Serial No. 320,591. 8 Claims. (Cl. 3—2.)



1. An artificial leg having a rigid annular support adapted to receive the stump of the leg, a tubular peg, a cage-

like frame connecting said rigid annular support with said tubular peg, and a bucket depending from said rigid annular support.

1,345,662. TILTING MECHANISM FOR CONCENTRATING-TABLES. WILLIAM A. BUTCHART, Denver, Colo. Filed May 24, 1919. Serial No. 299,474. 6 Claims. (Cl. 83—56.)



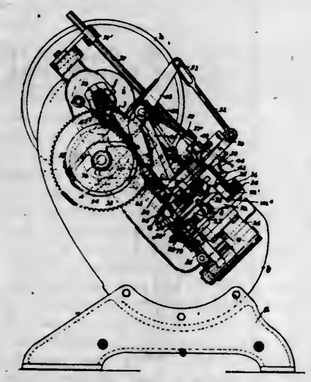
1. Adjusting mechanism of the character described, comprising in combination with a tiltably supported element, rack-bars pivotally attached thereto, bendable standards, pinions rotatably supported thereon in operative engagement with racks on the bars, means to rotate the pinions, and locking mechanism acting upon the standards to cause them to frictionally oppose the coöperative movements of the pinions and the racks.

1,345,663. CONCRETE-REINFORCEMENT. PHILIP M. CABELL, New York, N. Y. Filed Apr. 12, 1918. Serial No. 228,114. 2 Claims. (Cl. 72—109.)



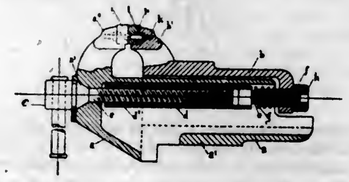
1. The method of forming a reinforcing fabric for cementitious structures consisting in coiling strand material into a spiral, turning the convolutions of the spiral into planes oblique to the axis of the spiral, thus converting the spiral into a flat mat, and then bending the mat along a longitudinal line or lines to form a gutter-shaped unit.

1,345,664. MACHINE FOR MAKING ARTICLES OF SHEET METAL. AMOS CALLESON, Brooklyn, N. Y., assignor to Adriance Machine Works, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 22, 1919. Serial No. 284,449. 13 Claims. (Cl. 271—18.)



2. In combination with a frame, two going means having a yieldable power transmitting connection between them, and one driving the other through said connection and including means to advance the sheets one after another, means to feed the sheets one after another to the advancing means operatively connected with and adapted to be driven by the other going means, means to arrest the motion of said other going means movable into and out of and normally held in position to arrest the motion of the same, and means controlled by the sheet being advanced, to move said arresting means out of said position.

1,345,665. VISE. MAURICE CUENDET, Cordex par Vich, Switzerland. Filed Mar. 20, 1919. Serial No. 283,814. 8 Claims. (Cl. 81—33.)

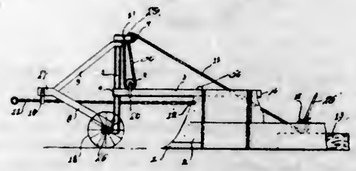


6. A clamping device comprising a movable jaw having a threaded portion, rotary means for actuating said jaw having a threaded portion, connecting means having threaded portions meshing with said first and second threaded portions respectively, one coöperating pair of said threaded portions having a high pitch and the other pair having a low pitch, and a torsion spring anchored at opposite ends to the respective portions of said low pitch pair for restraining the relative movement of the portions of the low pitch pair upon rotation of said actuating means, the strength of said spring being such as to prevent relative rotation of the portions of the low pitch pair until said jaw meets with resistance and then to permit such rotation, both threaded portions of the low pitch pair being non-rotatable while the two threaded portions of the high pitch pair are rotating relatively to each other.

1,345,666. INSULATING MATERIAL. JOSEPH P. DONAVON, Lompoc, Calif. Filed Aug. 28, 1919. Serial No. 320,420. 2 Claims. (Cl. 106—18.)

2. Heat insulating material comprising a block of kieselguhr having voids therein formed by the incineration of pieces of kernel shells embedded in the block.

1,345,667. CARRYING-TRUCK. JULIUS ENGELBRECHT, Boone, Colo. Filed Mar. 5, 1919. Serial No. 280,832. 2 Claims. (Cl. 37—7.)



1. In a device of the class described, a truck embodying a post; a plow having an arm slidable vertically upon the post; an idler on the post; an idler on the arm; a winding device on the plow; and a flexible element formed into a depending loop receiving the idler on the arm, the flexible element being trained across the idler on the post, one end of the flexible element being fixed with respect to the post, the other end of the flexible element being assembled with the winding device.

1,345,668. AUXILIARY CAR-STEP. SAMUEL P. FAIRCHILD, Mountain Home, Idaho. Filed Feb. 17, 1920. Serial No. 359,267. 1 Claim. (Cl. 105—447.)

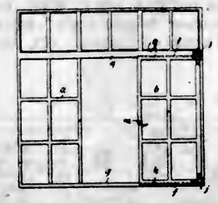
The combination with a step of a railway coach, of depending hangers carried by the step and having eyes,

an auxiliary step having straps doubled and extending across the ends thereof, said straps having eyes at their inner ends registering with the first-named eyes, a pivot bolt disposed through the registered eyes whereby the auxiliary step is pivotally supported, depending apertured



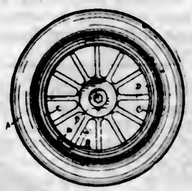
members carried by the coach step, supporting rods movably engaged with the auxiliary step and slidable through the apertured members, a resilient member carried by the coach step, and a member carried by the free edge of the auxiliary step for snapping engagement with said resilient member to hold the auxiliary step in raised position.

1,345,669. METAL WINDOW FRAME AND SASH OF THE SLIDING-SASH TYPE. FRANCIS JOSEPH JAMES GIBBONS, Wolverhampton, England. Filed Feb. 26, 1919. Serial No. 279,394. 5 Claims. (Cl. 189—75.)



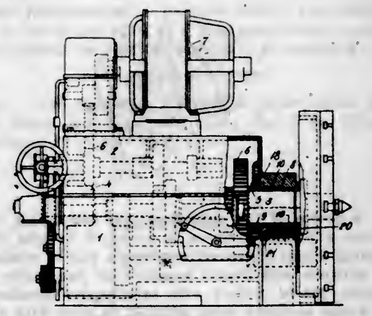
1. A metal window frame, having a window aperture and a portion lateral to said aperture, a metal horizontally sliding sash normally covering said aperture and means automatically releasing said sash directly from and automatically causing said sash to become directly pivoted on said frame when said sash is slid open away from said aperture and over said lateral portion of said frame.

1,345,670. VEHICLE-TIRE RIM. HERMAN H. GREEN, Salt Lake City, Utah. Filed Oct. 6, 1919. Serial No. 328,893. 1 Claim. (Cl. 301—35.)



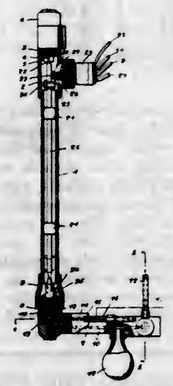
An automobile tire rim comprising a metal band having an inwardly and outwardly extended flange on one edge; interrupted circumferentially disposed threads thereon; an arc shaped slot cut in the inwardly extended flange with teeth cut in one side of said slot; a coacting metal band of less diameter than the first mentioned metal band and having an outwardly extended flange thereon with a portion formed into a rack flange; an arc shaped slot in said rack flange with teeth cut in one side of said slot; interrupted circumferentially disposed threads in said coacting metal band intermeshing with the circumferentially disposed threads of the first mentioned metal band; and means to engage the teeth in said slots to move said metal bands one within the other to engage the circumferentially disposed threads of one band with the like threads of the other band.

1,345,671. HEADSTOCK-BEARING FOR LATHES. GEORGE E. GREENLEAF, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 9, 1918. Serial No. 261,781. 3 Claims. (Cl. 82—28.)



1. In a lathe headstock, the combination of a box-like frame, a horizontal work spindle, drive gearing for the spindle inclosed within the frame, bearings provided at the respective ends of the frame, the work spindle being mounted in such bearings, passing through the frame and projecting outside thereof at one end, a lathe face plate mounted on such projecting end, the bearing adjacent the face plate including an upper brass and a lower brass provided with a plane wedge-engaging bottom, a wedge block under the lower brass and engaging the bottom thereof, and screw means engaging the wedge block and extending through the frame to the outside whereby the wedge block may be positively moved in either direction to raise or lower the work spindle and face plate to compensate for wear.

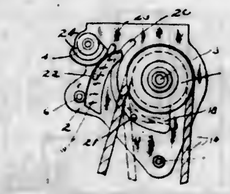
1,345,672. AUTOMOBILE-LOCK. WILLIAM HENCKLER, St. Louis, Mo. Filed Aug. 7, 1919. Serial No. 315,951. 3 Claims. (Cl. 70—127.)



1. A valve and switch actuating mechanism comprising an open ended tubular casing, a valve housing connected with one end of the casing, a head at the opposite end of the casing, an actuating rod rotatably and slidably mounted in the casing, a valve member connected with the rod and threaded into the valve housing for movement into and out of a closed position, a cam element carried upon the rod within the head, a circuit terminal having

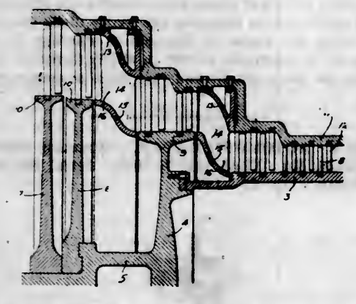
contact elements extending into the head for engagement by said cam to move the contacts into engagement with each other when the rod is turned to move the valve to an open position, and a lock controlled turning element carried by the head and having sliding engagement with the rod.

1,345,673. UNIVERSAL LOCK AND RELEASE FOR PULLEYS. GEORGE T. HILLS, Chicago, Ill. Filed July 7, 1919. Serial No. 309,039. 5 Claims. (Cl. 57—34.)



1. A device of the class described comprising in combination a tension member, a pulley, a housing therefor including a pair of spaced members, a pair of wedge members between said spaced members on either side of but normally out of contact with said tension member, both said wedge members being adapted to move with the tension member when the latter is brought successively into contact therewith while moving upwardly.

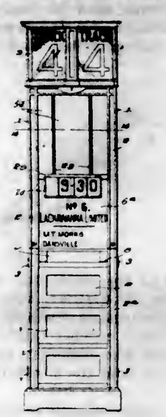
1,345,674. ELASTIC-FLUID TURBINE. FRANCIS HODGKINSON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 30, 1915. Serial No. 5,249. 1 Claim. (Cl. 253—78.)



A fluid conduit member for turbines having spaced rotor elements, comprising a pair of concentrically disposed stationary annular walls adapted to fit between the rotor elements, and having their outside surfaces conforming in contour to their inside surfaces, and having their inside surface curved to form a passage offering minimum resistance to the flow of fluid from one rotor of small diameter to a rotor of larger diameter, the outer wall of the said member being provided with a radially extending flange whereby the member is secured to the turbine stator and the inner wall being connected to the outer wall by fluid directing vanes whereby the inner wall is supported by the outer wall.

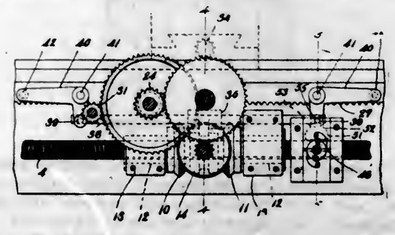
1,345,675. CHANGEABLE INDICATOR. JOB HUTCHINSON, Brooklyn, N. Y. Filed Dec. 4, 1917. Serial No. 205,351. 27 Claims. (Cl. 40—28.)

1. In a changeable indicator, a frame, an upper rotatable member mounted on said frame, a lower rotatable member mounted on said frame and below said upper rotatable member, an endless flexible connection passing over said upper and said lower rotatable members and extending between the same, a traveling display device mounted on said flexible connection, a balance weight mounted on said flexible connection on the opposite side of said rotatable



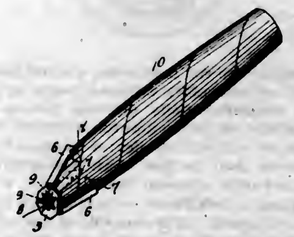
members from said display device, and means to transmit power to one of said rotatable members to move said flexible connection.

1,345,676. APRON MECHANISM FOR LATHES. ARTHUR H. INGLE and WALLACE E. WARD, Rochester, N. Y.; said Ward assignor to said Ingle. Filed June 8, 1917. Serial No. 173,629. 5 Claims. (Cl. 82—22.)



1. Apparatus of the kind described, comprising a tool carriage equipped with a cross slide and with an apron, a power shaft extending lengthwise of the lathe, and operating mechanism for moving said carriage and said cross slide from said power shaft including a shiftable gear having gear elements coöperative therewith for moving said carriage at a relatively slow rate for feeding or at a higher rate for power traverse, or for moving said cross feed, said shiftable gear being selectively engageable with said gear elements in different shifted positions and being also shiftable to an inoperative position.

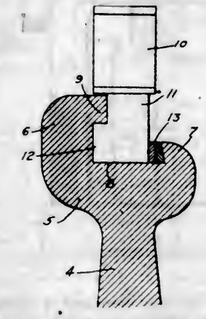
1,345,677. SLITTING ATTACHMENT FOR CIGARS. WALTER M. JACKSON, New York, N. Y. Filed June 30, 1919. Serial No. 307,516. 2 Claims. (Cl. 131—20.)



2. A sheet metal puncturing and slitting attachment for cigars consisting of a body portion having projections

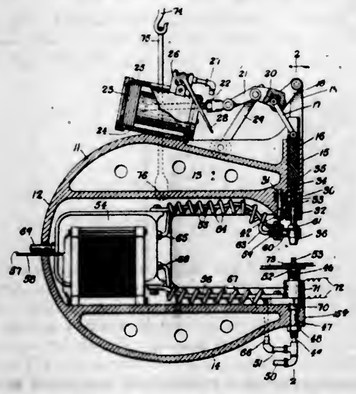
formed therein and extending from one face thereof, said body portion adapted to be applied against the end surface of the cigar and the projections thereon to penetrate into such end surface, said body portion also having arms to engage over and embrace the cigar end, each of said arms formed with a cutting point or projection at the extremity thereof, said cutting points or extremities bent into substantially right angular relation to the planes of the arms and adapted to penetrate the body of the cigar end whereby the withdrawal of the attachment from the cigar end leaves the end surface of the cigar punctured and the exterior surface of the cigar end slitted longitudinally.

1,345,678. MOUNTING FOR TURBINE-BUCKETS. ALEXANDER T. KASLEY, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed June 25, 1918. Serial No. 241,882. 8 Claims. (Cl. 253—77.)



1. A turbine mechanism comprising a rotor having a peripheral bucket retaining flange having an overhanging portion, a radially disposed bucket having a shank with a projection adapted to fit under the overhanging portion whereby radial displacement of the shank is prevented, a flange of less diameter for preventing lateral displacement of the shank and a binding member disposed between the second flange and the shank adapted to hold the shank in engagement with the first flange.

1,345,679. ELECTRIC RIVETING-MACHINE. FRANK P. KORBAY, Amityville, N. Y. Filed Sept. 29, 1917, Serial No. 193,905. Renewed Nov. 14, 1919. Serial No. 338,113. 22 Claims. (Cl. 219—2.)

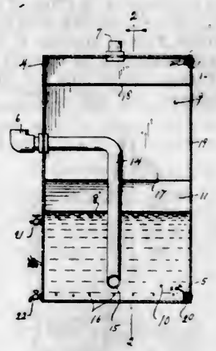


1. In a machine of the class described, a plunger, a plunger die operated by said plunger, an electric transformer, a work piece supporting die in electrical connection with said transformer, an electrode in electrical connection with said transformer and adapted to be moved into position between said plunger and a work piece mounted in said supporting die, and means for operating said plunger to move said electrode into contact with said work piece to heat the same prior to the operation of said plunger die on said work piece to fashion the same.

1,345,680. MANUFACTURE OF LEAVENED BREAD. HENRY A. KOHMAN and ROY IRVIN, Pittsburgh, Pa. Filed Dec. 13, 1919. Serial No. 344,515. 1 Claim. (Cl. 99—10.)

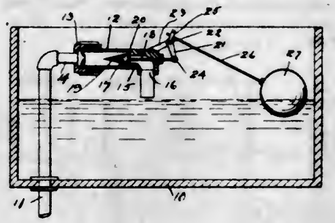
In the manufacture of leavened bread, incorporating lanolin in the dough batch as a shortening agent, fermenting, and baking the loaf; substantially as described.

1,345,681. AIR-WASHER. EDWIN J. KRATOCHVIL, Bancroft, Nebr. Filed Apr. 10, 1920. Serial No. 372,908. 3 Claims. (Cl. 183—24.)



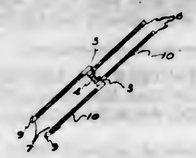
1. An air washer comprising a body portion including a liquid chamber, baffle plates disposed in said body portion and extending into the liquid chamber, an air inlet pipe including branches, said pipe extending into the liquid chamber between the baffle plates, the branches thereof extending through said baffle plates in the opposite direction to each other.

1,345,682. VALVE. WILLIAM LE FRANCOIS, Pawtucket, R. I. Filed July 31, 1919. Serial No. 314,546. 1 Claim. (Cl. 137—104.)



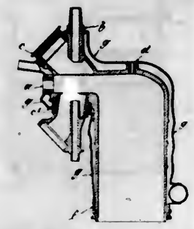
A ball cock comprising a valve casing having a pressure inlet opening a seat and a discharge opening, and endwise movable valve in said casing having a seat portion, a conically-shaped end member on said seat portion extending toward the entering pressure fluid and of a length approximately two and one-half times the diameter of said seat portion to reduce the operating resistance of said valve when moved against the pressure, a stem on said valve, and a lever arm pivotally connected between its ends to said casing and having one end pivotally connected with said stem to positively control both the opening and closing movements of said valve.

1,345,683. SUPPORT FOR SHINGLES. RALPH R. MABIE, New York, N. Y. Filed Apr. 10, 1918. Serial No. 227,830. 9 Claims. (Cl. 108—9.)



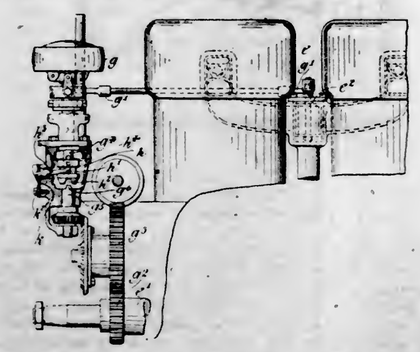
1. In a device of the class described, a member having upstanding projections near the middle of said device, said projections being spaced apart whereby shingles may be spaced at uniform distances apart.

1,345,684. MEANS FOR ATTACHING SHEET-STEEL JACKETS TO CAST-IRON MOTOR-CYLINDERS, FOR WATER-COOLING AND OTHER PURPOSES. AUGUSTE MAIRE, Argenteuil, France, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville, Paris, France. Filed July 14, 1916. Serial No. 109,231. 3 Claims. (Cl. 123—173.)



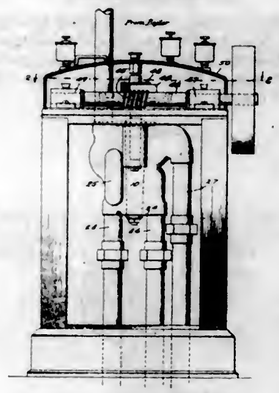
1. A cylinder construction for aviation explosion engines, comprising a cast iron cylinder having projecting internally screw-threaded bosses, steel ferrules screwed into said bosses so as to make a perfectly tight joint therewith, an annular steel member secured around the lower end of the cylinder and making a tight joint therewith and a steel jacket surrounding said cylinder and having portions welded to the steel ferrules and the annular steel member respectively.

1,345,685. CLUTCH CONTROL DEVICE. ALFRED F. MASURY and ROBERT S. BOLGER, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed July 2, 1918. Serial No. 242,993. 1 Claim. (Cl. 74—39.)



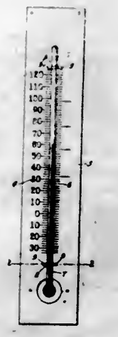
The combination with an internal combustion engine, of a governor to control the speed thereof, gearing and a two-part shaft whereby the governor is driven from the engine shaft, a separable clutch interposed between the two parts of the two-part shaft and including a grooved sleeve member, an operating lever engaging said sleeve member and a manually operable pivoted operating and locking plate having an eccentric cam slot with which said lever is engaged whereby the sleeve is held in or out of driving relation to the two parts of the shaft.

1,345,686. VALVE. LEWIS METTESSER, New Orleans, La. Filed July 29, 1919. Serial No. 314,118. 10 Claims. (Cl. 121—147.)



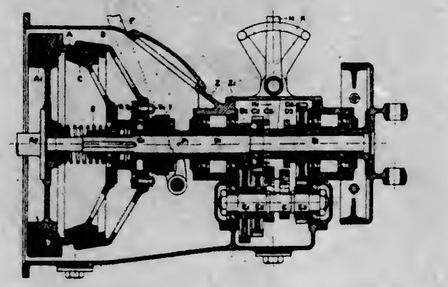
1. In a device of the type described, a casing, an intake and an exhaust port formed in said casing, distribution ports formed in said casing, a four port plug arranged within said casing, said plug ports being arranged in pairs lying in intersecting planes the ports of each pair lying in the same plane, one port of each pair communicating with said inlet port and the other port of each pair communicating with said exhaust port, each of said distribution ports communicating with one port of each of said pairs.

1,345,687. THERMOMETER. HERBERT P. MILKES, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed May 28, 1919. Serial No. 300,390. 1 Claim. (Cl. 73—52.)



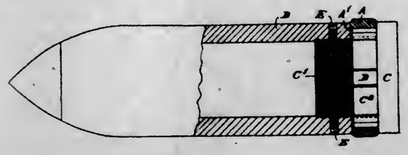
The combination of a thermometer scale-plate of metal having a scale produced on its one face, a thermometer tube on said plate in coöperative relation to said scale, metallic clips hugging said tube and conforming minutely to the form of the outer surface thereof and members comprising integral parts of said clips and extending in surface engagement with said plate and joined thereto by welding whereby said tube is fixed on said scale-plate against lengthwise movement relatively to said scale.

1,345,688. CHANGE-SPEED GEAR. SWINFEN BRAMLEY MOORE, Huddersfield, England. Filed Apr. 26, 1920. Serial No. 276,816. 4 Claims. (Cl. 74—58.)



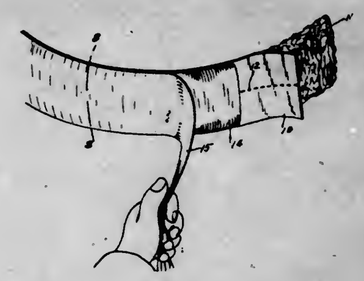
1. A change speed gear comprising an inner driving shaft; two tubular axially arranged shafts mounted on said inner shaft one of which is the second driving shaft and the other of which is the driven shaft; a double acting clutch comprising a compound element the two parts of which are mounted respectively on the two driving shafts, a single element carried by the power shaft, a spring for bringing one of the parts of the compound element into engagement with the single element and for keeping the other part of the compound element out of engagement with said single element, and hand-operated means for reversing said engagements against the action of the spring a countershaft in parallel alinement with the driving and driven shafts; a pinion fixed on the tubular driving shaft and gearing with a pinion fixed on the countershaft; a pinion on the inner driving shaft gearing with a second pinion fixed on the countershaft; a third pinion fixed on said countershaft; and a sliding pinion on the driven shaft adapted either to be put into mesh with the third pinion on the countershaft, to be brought into couple with the pinion on the inner driving shaft by means of a clutch, or to be retained in a neutral position out of engagement with either the third pinion on the countershaft or with the pinion on the inner driving shaft.

1,345,689. SHELL OR PROJECTILE. JOSEPH MORRIS, Elton, near Chester, England. Filed Apr. 18, 1918. Serial No. 229,359. 4 Claims. (Cl. 102—40.)



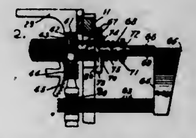
1. In an explosive projectile, the combination with the projectile body having an interior bore and an opening to the said bore at the rear of the projectile, of a clamping head having a shank which enters the bore of the body and closes the opening, a neck integral with and located between the shank and the head, longitudinal notches in the neck all around its circumference at intervals, and at least one annular rifling band of relatively soft material located directly between the head and the rear of the projectile body and filling the space between the same, the said band having fins formed integrally therewith and adapted to enter the notches in the neck.

1,345,690. TREE-PROTECTOR BAND. ELMER GRANT PERL, Minneapolis, Minn. Filed Aug. 18, 1919. Serial No. 318,070. 4 Claims. (Cl. 43—108.)



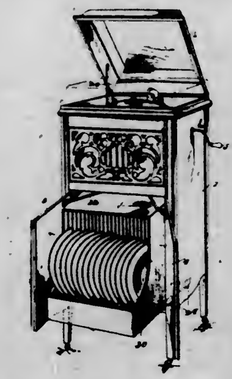
1. A tree-protector band comprising a flexible binding strip of waterproof fabric having cotton batting applied to one side thereof, the other side of the flexible binding strip being adapted to receive an application of sticky substance, the longitudinal edges of the flexible binding strip being extended outward of the longitudinal edges of the cotton batting so as to draw thereover and cover the same when said strip is applied to a tree.

1,345,691. ELECTRIC METER. WILLARD E. PORTER, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 26, 1917. Serial No. 151,060. 11 Claims. (Cl. 171—323.)



1. In an electric meter of the commutator type, in combination, a metallic vane adapted to be secured to a brush, a metallic brush support, and a metallic spring surrounding said support and serving to mechanically secure said vane to said support and also to provide an electric current path from said support to said vane.

1,345,692. TALKING-MACHINE CABINET. JOSEPH G. PROVIDENTI, Brooklyn, N. Y. Filed Aug. 25, 1919. Serial No. 319,786. 9 Claims. (Cl. 211—16.)

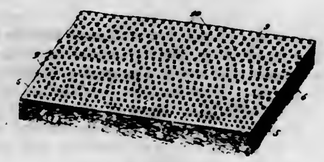


1. In a talking machine cabinet, the combination of a hinged top, a hinged door, a sliding drawer, a movable

member, and connections between said movable member and said top, door and drawer constructed and arranged to move said top, door and drawer upon the movement of said movable member.

6. In a talking machine cabinet, the combination of a hinged top, a hinged door, a sliding drawer, a crank, a plate movable therewith and having a slot therein, connections between said plate and said door and said drawer, and a link having one end connected to the top and its other end coöperating with the slot in said plate.

1,345,693. COMPOSITE HEAT-INSULATING SHEET. DAVID W. PYE, Red Bank, N. J. Filed Dec. 16, 1918. Serial No. 266,853. 2 Claims. (Cl. 154—44.)



1. A heat insulating article of the class described comprising a body portion of felted material, a sheet of paper overlying said felted body portion and forming a protecting backing, fibers of the felted material extending through minute punctures in said paper sheet and a coating of cementitious material upon the exposed surface of said protecting sheet of paper, embedding the protruding fibers therein.

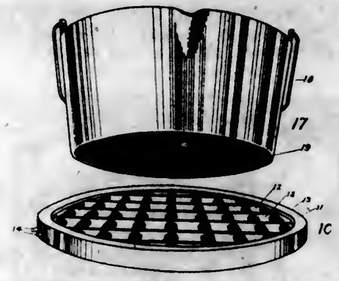
1,345,694. PROCESS OF PRODUCING A PHENOLIC CONDENSATION PRODUCT. LAWRENCE V. REDMAN, Evanston, and ARCHIE J. WEITH and FRANK P. BROCK, Chicago, Ill., assignors to Redmanol Chemical Products Company, Chicago, Ill., a Corporation of West Virginia. Filed Sept. 16, 1918, Serial No. 254,369. Renewed May 12, 1919. Serial No. 296,537. 4 Claims. (Cl. 106—22.)

1. The process of producing a phenolic condensation product, without the use of a condensing agent, which comprises: boiling together a solution of formaldehyde and a phenolic body taken largely in excess of the formaldehyde, until the formaldehyde is substantially eliminated from the supernatant aqueous layer which forms and a viscous gummy lower layer is produced; discarding the aqueous layer; concentrating the gummy mass by applying further heat; mixing with the mass a solution of formaldehyde in lesser proportion than in the first step; pouring the mixture into molds and "setting" at a temperature below 100° C.; and removing the material from the molds and hardening by prolonged application of heat at a temperature below 100° C. until the mass becomes infusible and substantially insoluble.

1,345,695. METHOD OF PRESERVING INFUSIBLE PHENOLIC CONDENSATION PRODUCTS FROM DISCOLORATION AFTER PRESERVING. LAWRENCE V. REDMAN, Evanston, and ARCHIE J. WEITH and FRANK P. BROCK, Chicago, Ill., assignors to Redmanol Chemical Products Company, Chicago, Ill., a Corporation of West Virginia. Filed July 24, 1919. Serial No. 312,971. 3 Claims. (Cl. 99—8.)

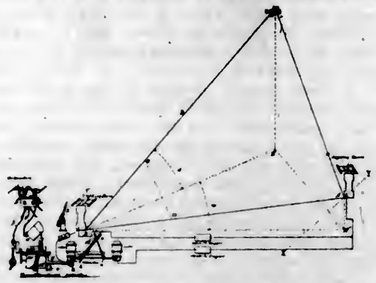
1. The method of preserving an infusible and practically insoluble phenolic condensation product of the transparent order from discoloration which consists in maintaining such product in a medium which is inert with respect thereto when exposed to the action of sunlight.

1,345,696. ELECTRIC HEATING DEVICE. EARL H. RICHARDSON, Ontario, Calif., assignor to Edison Electric Appliance Company, Inc., a Corporation of New York. Filed Dec. 16, 1918. Serial No. 266,989. 4 Claims. (Cl. 219—19.)



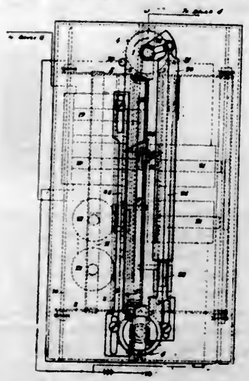
1. The combination with an electric heating unit of the radiant type, of an aluminum cooking utensil having a permanently darkened surface exposed to the radiant heat.

1,345,697. ANTI-AIRCRAFT-CONTROL SYSTEM. JOSEPH LOUIS ROUTIN, Paris, France. Filed July 23, 1917. Serial No. 182,311. 12 Claims. (Cl. 235—61.)



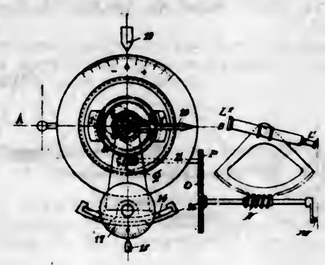
1. Apparatus for regulating the firing of anti-aircraft guns, comprising sighting means, range-finding means controlled by said sighting means, means associated with said range-finding means for tracing the graph of said range in time functions, and graphic means including a time of flight curve for extrapolating by aid of said graph a predicted range of the target.

1,345,698. ANTI-AIRCRAFT GUNFIRE CONTROL. JOSEPH LOUIS ROUTIN, Paris, France. Filed July 24, 1917. Serial No. 182,597. 4 Claims. (Cl. 235—61.)



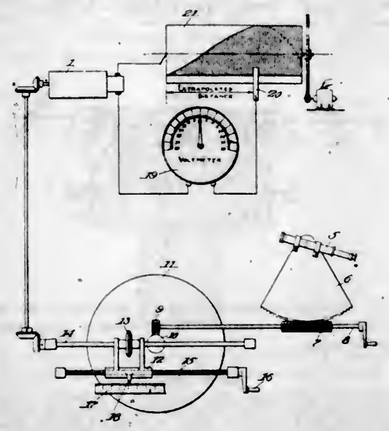
1. In chronotelemetrical apparatus for use in regulating the firing of anti-aircraft guns, the combination of a traveling member adapted to move at a speed proportional to the angular speed of the target, a scale for indicating the product of the time of flight of the projectile by the angular speed of the target, indicating means movable along said scale, means for engaging said indicating means with said traveling member, and timing means controlling the duration of said engagement in accordance with the time of flight of said projectile.

1,345,699. FIRE-CONTROL TACHOMETER. JOSEPH LOUIS ROUTIN, Paris, France. Filed July 25, 1917. Serial No. 182,789. 2 Claims. (Cl. 235—61.)



1. In chronotelemetrical apparatus for regulating the firing of anti-aircraft guns, a magnetic or electromagnetic tachometer wherein the flux is varied so as to indicate the product of a speed by a time, the device being so arranged that it can be gaged by bringing the maximum flux to a constant value by means of independent regulating means.

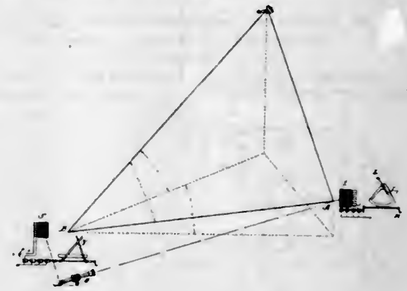
1,345,700. ANTI-AIRCRAFT GUNFIRE-CONTROL SYSTEM. JOSEPH LOUIS ROUTIN, Paris, France. Filed July 26, 1917. Serial No. 182,981. 2 Claims. (Cl. 235—61.)



1. In apparatus for determining the angular speed of an aerial target by the time of flight of the projectile for regulating the firing of anti-aircraft guns, means for generating an electromotive force proportional to the angular speed of the target, a voltmeter in circuit therewith having the characteristics of a ballistic galvanometer and means associated with the circuit for controlling the application of said pressure to the voltmeter in proportion to the time of flight of the projectile for rendering the voltmeter readings a function of the product of speed of the target and time of flight.

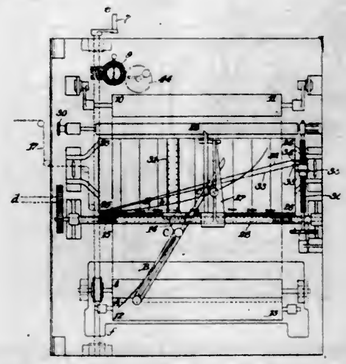
2. In apparatus for determining the angular speed of an aerial target by the time of flight of the projectile for regulating the firing of anti-aircraft guns, means for generating an electromotive force proportional to the angular speed of the target, a voltmeter in circuit therewith having the characteristics of a ballistic galvanometer and means associated with the circuit for controlling the application of said pressure to the voltmeter in proportion to the time of flight of the projectile for rendering the voltmeter reading a function of the product of speed of the target and time of flight, said means comprising a constant speed cylinder having a surface partly conducting and partly non-conducting the ratio of the two depending on the time of flight of the projectile and a brush adjustable lengthwise of the cylinder and contacting therewith for closing the circuit through said conducting portion.

1,345,701. ANTI-AIRCRAFT FIRE CONTROL. JOSEPH LOUIS ROUTIN, Paris, France. Filed Sept. 6, 1917. Serial No. 190,084. 2 Claims. (Cl. 235—61.)



1. A system for regulating the firing of anti-aircraft guns by visual signals and without metallic conductors, comprising a battery station having a bank of lamps, and an auxiliary station provided with sighting means, means thereat for consecutively setting up sight angles comprising a bank of lamps automatically controlled by movements of said sighting device, optical means for associating the images of the two banks of lamps and alidade means at the battery station for reproducing the signals set up at the auxiliary station.

1,345,702. APPARATUS FOR REGULATING THE FIRING OF GUNS. JOSEPH LOUIS ROUTIN, Paris, France. Filed Sept. 7, 1917. Serial No. 190,160. 6 Claims. (Cl. 235—61.)



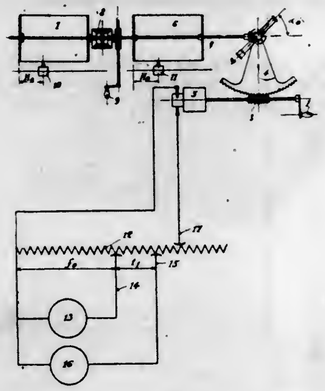
1. In combination with telechronographic means for predicting the distance of an aerial target and the time

of flight of a projectile, means for proportioning times to distances in accordance with said predicted time and distance of said target and an index element movable with said first-named means for indicating the co-efficient of proportionately

$$\frac{t_0(D_0)^2}{D_1 D_2}$$

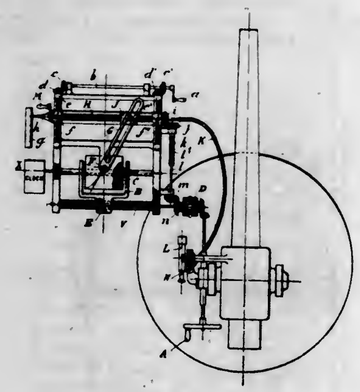
by which the angular speed must be multiplied.

1,345,703. ANTI-AIRCRAFT GUNFIRE-CONTROL APPARATUS. JOSEPH LOUIS ROUTIN, Paris, France. Filed Sept. 8, 1917. Serial No. 190,337. 4 Claims. (Cl. 235—61.)



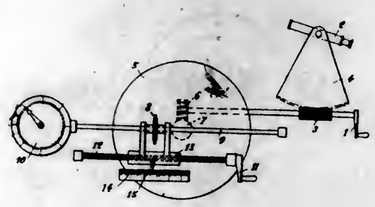
1. In apparatus of the character described, where the target is moving at a constant altitude during the time of flight of the projectile, the combination of a tachometer giving the angular speed of the target with two scales one giving the time of flight and the other the issuing distance in functions of the angle of sight and of the altitude (H_0).

1,345,704. ANTI-AIRCRAFT TRACKER. JOSEPH LOUIS ROUTIN, Paris, France. Filed Sept. 10, 1917. Serial No. 190,615. 3 Claims. (Cl. 235—61.)



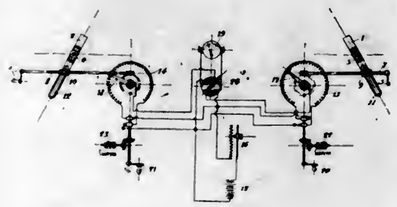
2. In combination a revolubly mounted gun provided with an aiming telescope, a recording surface movable at a uniform rate in one direction, means for displacing said surface transversely to said direction proportionally to the angular movement of the gun, a stylus bearing on said surface for tracing a curve giving angles of sight in time functions and provided with a tangent indicating arm, a threaded manually operated shaft adjustable to and from said stylus proportionally to the time of flight of the projectile and provided with a nut having sliding engagement with said arm and power connections between said shaft and telescope for applying thereto an angular correction as indicated by the tangent position of said arm.

1,345,705. ANTI-AIRCRAFT FIRE-CONTROL APPARATUS. JOSEPH LOUIS ROUTIN, Paris, France. Filed Sept. 11, 1917. Serial No. 190,812. 1 Claim. (Cl. 235—61.)



In apparatus for regulating the firing of anti-aircraft guns, the combination of a sighting telescope, a tachometer and power transmitting means for transmitting the movements of the telescope to said tachometer including adjustable speed-varying means adapted to maintain the speed ratio equal to a predetermined time of flight of the projectile thereby enabling the tachometer to indicate the product of the time of flight by the angular speed of the target for zenithal or azimuthal corrections.

1,345,706. RANGE-FINDING METHOD AND APPARATUS. JOSEPH LOUIS ROUTIN, Paris, France. Filed Feb. 7, 1918. Serial No. 215,932. 3 Claims. (Cl. 235—61.)



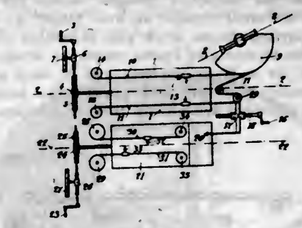
1. The method of determining the altitude of an aerial objective from two stations in accordance with the described formula

$$\frac{b}{\tan\beta - \tan\alpha}$$

consisting in projecting the angles of sight of said objective from said stations upon a vertical plane common to said stations to obtain angles β and α and controlling the movements of an indicating element in proportion to the difference of the tangents of β and α to indicate said altitude.

1,345,707. APPARATUS FOR REGULATING THE FIRING OF ANTI-AIRCRAFT GUNS. JOSEPH LOUIS ROUTIN, Paris, France. Filed Mar. 6, 1918. Serial No. 220,858. 5 Claims. (Cl. 235—61.)

1. In apparatus for reading off fuse settings for projectiles to be fired at aerial targets, the combination of a support movable in functions of target heights; and provided with sets of curves one of which reads directly durations of flights and the other reads distances for fuse



settings, indices movable over said curves in response to movements of a sighting device, and means for displacing the fuse setting index by a quantity

$$a\left(1+\frac{t_1}{f_0}\right)$$

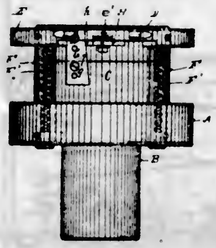
to correct the indicated fuse setting reading.

1,345,708. SCREWDRIVER. VICTOR H. SCHNEIDER, Aurora township, Florence county, Wis. Filed July 11, 1919. Serial No. 310,022. 7 Claims. (Cl. 145—50.)



1. A combination tool comprising a handle, a blade carried thereby, a supplementary blade carried by the handle and normally providing the other blade with a single working edge of one size, and means whereby said supplementary blade may be extended beyond the other blade to provide a smaller working edge independent of said other blade.

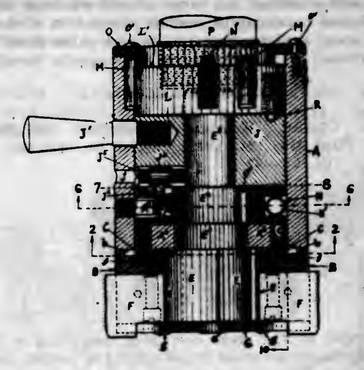
1,345,709. THREADING-DIE MECHANISM. ARTHUR A. SHAFER, Erie, Pa., assignor to Rickert-Shafer Company, Erie, Pa., a Corporation of Pennsylvania. Filed Nov. 14, 1918. Serial No. 262,544. 6 Claims. (Cl. 10—96.)



2. In a device of the character described, a die-holder, dies mounted therein, a rotatable cam sleeve on said die-holder for actuating said dies, an inclined plate secured thereon, a longitudinally movable ring engaging said inclined plate to rotate said cam ring, and spring actuated guide rods secured to said ring and slidably mounted in the die holder to prevent rotation of said ring on said die holder, substantially as set forth.

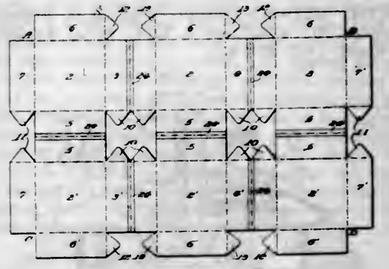
1,345,710. COLLAPSIBLE TAP. ARTHUR A. SHAFER, Erie, Pa., assignor to Rickert-Shafer Company, Erie, Pa., a Corporation of Pennsylvania. Filed June 27, 1919. Serial No. 307,131. 6 Claims. (Cl. 10—144.)

1. In a collapsible tap a body member having radial slots, chasers slidably mounted in said slots, a central shaft member in said body, cam surfaces carried thereby adapted to force said chasers outwardly at one movement, and the cam ring mounted thereon and rotatable with said



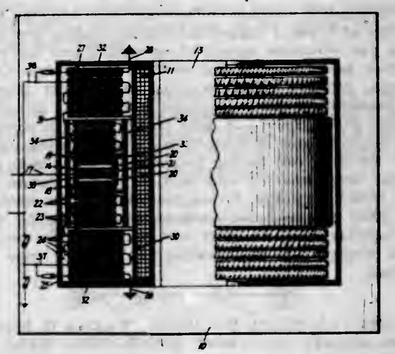
central shaft to force said chasers inwardly at the reverse movement thereof, substantially as described.

1,345,711. DISPLAY-BOX. MORRIS MAX SHAPIRO, Philadelphia, Pa. Filed Oct. 21, 1919. Serial No. 332,187. 8 Claims. (Cl. 229—42.)



1. A device of the class described, comprising a container and a single blank disposed in the container and folded to form a plurality of vertically positioned, integral, relatively angularly disposed walls operative to divide the container into a plurality of separate rectangular compartments, the walls and bottom of each of said compartments being completely formed by said blank.

1,345,712. ELECTRIC APPARATUS. HOWARD O. STEPHENS, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 18, 1916. Serial No. 137,548. 12 Claims. (Cl. 175—356.)



1. A stack of electrical windings having a single rectilinear winding axis and provided with a terminal near the

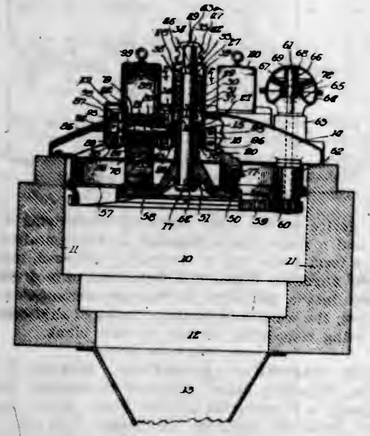
center thereof, the two ends of the windings being connected together and together providing the opposite terminal of said windings, the turns of said windings being connected and arranged to conduct current in a single direction about said winding axis in two paths from the center terminal of the winding to the opposite terminal thereof.

1,345,713. CLASP. WILLIAM H. STEVENS, New York, N. Y. Filed Mar. 21, 1918. Serial No. 223,709. 3 Claims. (Cl. 24—81.)



1. A device of the class described comprising a one piece transversely concaved frame having a central opening therein, the end walls of said frame being weakened to permit bending of the frame along the longitudinal axis thereof, and coacting gripping tongues connected to the frame and disposed upon opposite sides of the longitudinal axis of said frame.

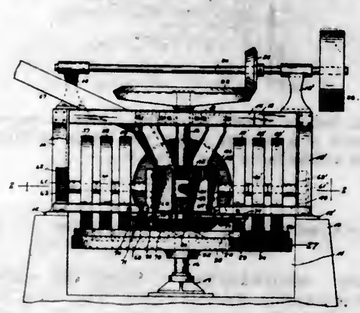
1,345,714. GRINDING-MILL. WILLIAM G. STEVENSON, Chicago, Ill. Filed June 3, 1918. Serial No. 237,847. 1 Claim. (Cl. 83—45.)



In a grinding machine of the class described, the combination of a pit, a supporting frame bridging over said pit, a pan structure supported on said frame for axial rotation, said frame having vertical passageways therethrough, grinding rolls projecting downwardly through said passageways into engagement with the pan structure, vertical guide grooves in said frame for each passageway, journal boxes slidable in said guide grooves, and a shaft for each roll having its ends extending into said journal boxes whereby said rolls may freely rotate and shift bodily vertically during operation of the machine, said guide grooves being open at the top whereby each roll together with its shaft and journal boxes may be lifted through said passageways and removed from the machine.

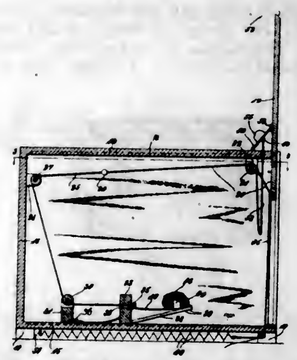
1,345,715. CRUSHING-MACHINE. WILLIAM G. STEVENSON, Chicago, Ill. Filed Oct. 5, 1918. Serial No. 256,945. 2 Claims. (Cl. 83—45.)

1. In a crushing machine of the class described, the combination of the supporting frame work, a horizontal table having a plurality of concentric troughs, means for rotating said table on its axis, crushing rollers engaging said table in the respective troughs, means for feeding material to the inner trough, an arm hinged at one end to said supporting frame work and extending over said table with the direction of travel thereof, a scoop secured near one of its ends to the free end of said arm and extending under said arm and toward the hinged end thereof in a direction opposite to that of rotation of said



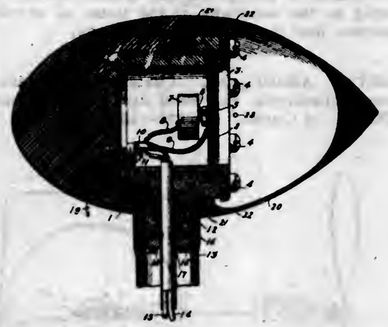
table, the inner end of said scoop resting against the bottom of the inner trough and the other end extending over the trough rim to the next trough whereby material is scooped up from the inner trough and discharged into the adjacent trough, said arm being under tension during such scooping operation and said arm being vertically free to permit the scoop edge to at all times rest against the bottom of said inner trough.

1,345,716. BIRD-TRAP. JOHN SUDUL, Cleveland, Ohio. Filed Jan. 2, 1918. Serial No. 209,947. 2 Claims. (Cl. 43—61.)



2. In a trap, the combination with a hollow structure, having an entrance and a sliding gate adapted to close the entrance, of a pair of cords attached to said gate, said cords being extended within, close to the upper portion of the structure, a bar connected with said cords, another cord engaging centrally with said bar, and passing through the lower portion of said structure, a block arranged upon the bottom of said structure having an opening through which said cord passes, means for engaging said cord within said opening, means permitting the disengagement of said engaging means, said means being operated by a lure, a spring for accelerating the movement of said gate, and means for locking said gate when in a lowered position thereby preventing it from being raised from the interior.

1,345,717. ACOUSTIC DEVICE. GEORGE B. THOMAS, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 9, 1918. Serial No. 249,066. 5 Claims. (Cl. 181—0.5.)



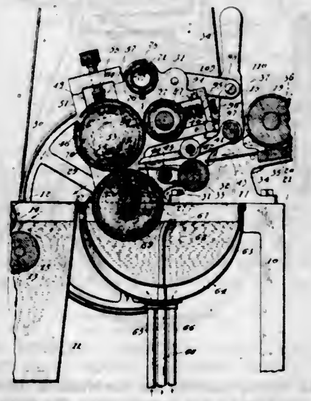
1. A vibration detector comprising a vibration responsive device and a perforate shield of energy absorbing material for protecting said device from transitory vibrations.

1,345,718. DENTAL MIRROR. CHESTER J. UNDERWOOD, Elgin, Ill. Filed July 3, 1919. Serial No. 308,421. 2 Claims. (Cl. 32—27.)



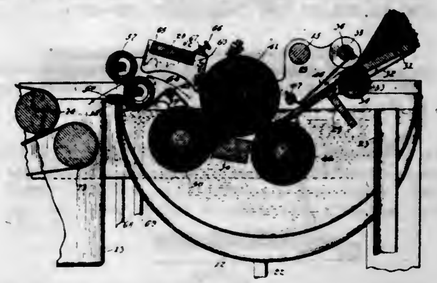
1. A dental mirror comprising a dished holder for the mirror-element, provided with inward projections on its rim, and a mirror-element seating in said holder and having an edge-slot to register with one of said projections for admitting said element into place in the holder, and to be moved out of such registration to confine said element in place by adjusting it in its seat.

1,345,719. MACHINE FOR COATING BLANKS WITH PARAFFIN. FRANK P. VAVRA, Cicero, Ill. Filed Aug. 9, 1918. Serial No. 249,156. 9 Claims. (Cl. 91—51.)



1. In an apparatus of the class described, the combination with a supply tank, of a gaging roll rotating above but dipping into the liquid, a second gaging roll above the first geared thereto and spring pressed into substantial engagement therewith, means for feeding cartons between the rolls, and means for supplying steam to the interior of the upper roll for the purpose described.

1,345,720. PARAFFIN-COATING MACHINE. FRANK P. VAVRA, Cicero, Ill. Filed Oct. 16, 1918. Serial No. 258,399. 10 Claims. (Cl. 91—31.)



1. In an apparatus of the class described, the combination with a tank, of a gaging roll journaled thereover and dipping into the bath, a feed roll located in the tank beneath the front side of the gaging roll and coöperating therewith, a second gaging roll located in the tank beneath the rear side of the main gaging roll and spring pressed into engagement therewith, and gearing for said rolls to drive them with the same peripheral velocity.

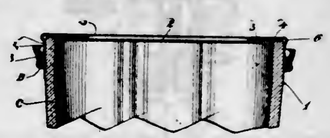
10. In an apparatus of the class described, the combination with a cold water tank, of a pair of feeding rolls journaled at the rear of and above said tank, plural rollers journaled in the tank below the water level, strings running over said rollers to feed blanks through the water, and a feeding roll over which the strings run journaled in advance of and at the level of the lower one of the first mentioned pair of feed rolls.

1,345,721. SPARK-PLUG CLEANER, TESTER, AND ADJUSTER. WILLIAM H. WALLACE, Newark, N. J. Filed June 24, 1919. Serial No. 306,474. 2 Claims. (Cl. 7—1.)



2. A device of the character described, consisting of a straight metallic blade, said blade being provided with a longitudinal and a transverse scraping edge, a filing surface arranged upon one side of said blade, and a recessed reduced spacing portion arranged on the opposite side and near one end thereof.

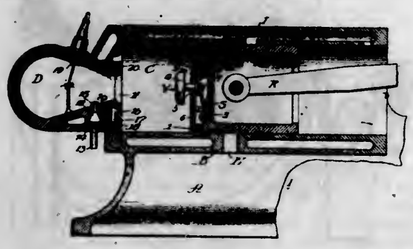
1,345,722. SEALING-CLOSURE FOR CONTAINERS. WILLIAM P. WHITE, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y., a Corporation of New York. Filed July 9, 1919. Serial No. 309,572. 18 Claims. (Cl. 215—17.)



9. A package including the combination of a container and a closure cap having a portion forming a cover for the mouth of the container and a portion forming a skirt encompassing the wall of the container, the said skirt

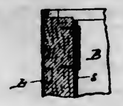
being shaped to provide a resilient sealing portion having frictional engagement with the side of the container and effective to retain the closure thereon, a gasket retaining portion effective to hold a gasket under compression against the side of the container to form a hermetic seal, and a gasket compressed against the side of the vessel and the friction sealing portion.

1,345,723. INTERNAL-COMBUSTION ENGINE. WARD G. WILLIAMS, Brandon, Wis. Filed Mar. 10, 1919. Serial No. 281,756. 10 Claims. (Cl. 123—33.)



1. An internal combustion engine comprising a compression chamber, a piston movable therein, a combustion chamber, means for supplying fuel thereto, a passageway leading from said compression chamber to said combustion chamber, and a spring controlled valve carried by the piston and adapted to automatically close said passageway immediately prior to the completion of the compression stroke of the piston.

1,345,724. PHONOGRAPHIC-RECORD-ALBUM SIGNATURE. MAX WILLINGER, New York, N. Y. Filed Aug. 11, 1919. Serial No. 316,600. 2 Claims. (Cl. 129—20.)



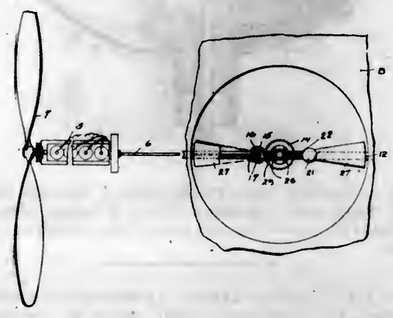
1. A duplex signature for phonographic record albums of the character designated, consisting of independently formed record envelops, eacn having a spinal hinge extension overlapping and adhesively secured to that of the other, for the purpose described.

1,345,725. LIQUID-ELEVATING APPARATUS. FRED V. WILLIS, Oswego, Ill. Filed Jan. 2, 1920. Serial No. 348,726. 12 Claims. (Cl. 103—8.)



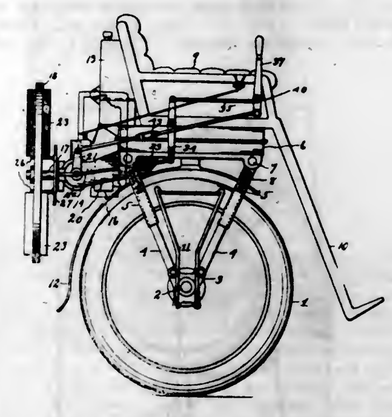
2. In apparatus of the character set forth, the combination of a cylinder into which the fluid to be lifted enters, and means for alternately introducing fluid-pressure into said cylinder to force the fluid therefrom, and venting said cylinder of the contained fluid pressure following the fluid-lifting operation comprising a longitudinally movable valve-device, a piston and cylinder device operating said valve device, and means coöperating with the movable element of said piston and cylinder device for presenting to the movement of the latter an overcomable resistance near the end of its stroke only.

1,345,726. AEROPLANE. CHRISTOPHER ROBERT WILSON, Philadelphia, Pa. Filed Apr. 9, 1919. Serial No. 288,824. 4 Claims. (Cl. 244—15.)



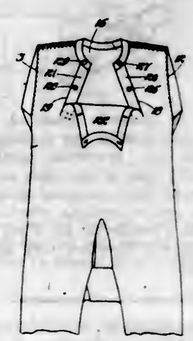
1. In combination with an aeroplane having a stationary wing supporting surface, a source of power, a main driving shaft and a driving propeller thereon, of an attachment for said stationary wing supporting surface mounted in an opening formed in said surface, said attachment comprising a propeller mounted for rotation in the plane of the wing supporting surface, a shaft carrying said propeller, means connecting said shaft to said main driving shaft and means for feathering the blades of said propeller automatically in proportion to the speed of the source of power.

1,345,727. AUTOMONOCYCLE. LOUIE GLENN WILSON, Morning Sun, Iowa. Filed May 3, 1919. Serial No. 294,523. 14 Claims. (Cl. 180—7.)



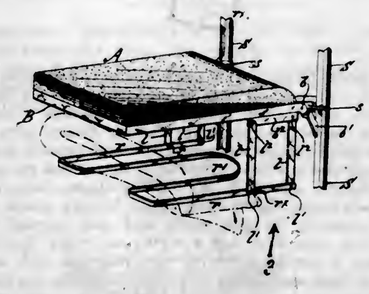
1. In an automonocycle, in combination with an air propeller for driving the same, means for disturbing the plane of rotation of said propeller to accomplish the guiding of said cycle.

1,345,728. UNDERGARMENT. SOLOMON WRIGHT, Jr., Montclair, N. J., assignor to Wright Underwear Company, Inc., New York, N. Y., a Corporation of New York. Filed July 5, 1919. Serial No. 308,740. 2 Claims. (Cl. 2—144.)



1. An undergarment made from tubular knit fabric, having a neck opening and having two diverging straight line slits which extend from the neck opening downward on the front of the garment, and terminate respectively at dead ends in the body of the garment at points between the median line of the garment and the arm-scyes, the top ends of said slits being at a distance from each other, forming a drop flap, whose upper edge is curved to complement the rest of the neck opening in the body, flies attached to the body along the side edges of the slits and forming under laps for the flap, said flap when closed overlapping the said flies, and means for detachably uniting the said flap with said flies.

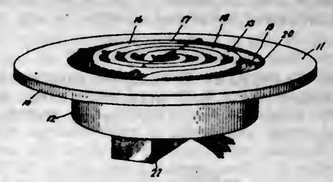
1,345,729. HAT AND GARMENT SUPPORT FOR FOLDABLE SEATS. FREDERICK W. ZEIDLER, Jersey City, and CARL HALPERN, Newark, N. J. Filed Jan. 10, 1920. Serial No. 350,593. 3 Claims. (Cl. 155—190.)



2. In combination with a folding seat of the character designated, a skeleton rack, for the support of wearing apparel, suspended on the rear portion of the seat adjacent to its pivotal support by parallel suspender links pivotally connected with both seat and rack, thereby affording unobstructed frontal and side spaces between seat and rack for the accommodation of a garment, said skeleton rack being formed with a medial hat loop, for the purpose described.

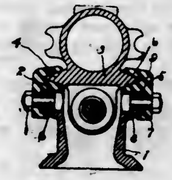
1,345,730. ELECTRIC HEATER. CHARLES C. ABBOTT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 16, 1919. Serial No. 290,476. 5 Claims. (Cl. 219—37.)

5. An electric heater comprising a casing having a substantially flat upper surface and a heating unit consisting of a resistance conductor and an inclosing metallic tube insulated therefrom formed into a grid and detachably



mounted within said casing so as to present a flat surface which projects above the surface of the casing.

1,345,731. MOUNTING FOR DRILLS. ROBERT L. AMBROSE, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 27, 1918. Serial No. 231,184. 2 Claims. (Cl. 255—51.)

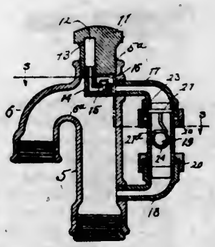


1. In a carriage or mounting for rock drills, a shell having horizontally lying lateral projections, shell caps fitting over said projections, horizontal bolts for drawing said shell caps over said projections and V-shaped recesses and projections between the shell caps and the cylinder casing, whereby slack or play in all directions between the cylinder casing and shell caps is taken up by one adjustment and the alinement of the cylinder casing restored to the original position.

1,345,732. HIGH-SPEED STEEL. JOHN OLIVER ARNOLD, Sheffield, England. Filed Nov. 9, 1918. Serial No. 261,789. 3 Claims. (Cl. 75—1.)

1. A high-speed steel containing as a hardening agent vanadium and molybdenum approximately in the proportion of 1.25 per cent. and 7.50 per cent. respectively.

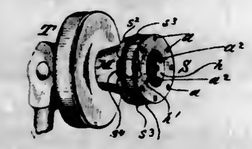
1,345,733. SIGHT-INDICATOR FOR DISPENSING-PUMPS. CHARLES S. AYRES, Riverton, N. J. Filed July 17, 1919. Serial No. 311,555. 5 Claims. (Cl. 221—102.)



1. In a device of the character stated, the combination with the stand pipe of a measuring pump, of a discharge outlet having a neck, a transparent tube in communication with said stand pipe at points in proximity to said neck, an indicating float in said tube, and means for arresting

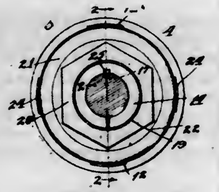
the upward movement of said float at a point in proximity to the horizontal plane of said neck whereby said float is visible at a point in proximity to the level of said neck, thereby indicating the primed condition of said pump.

1,345,734. SANITARY APPLIANCE FOR TELEPHONE-TRANSMITTERS, &c. SYLVAN T. BAER, New York, N. Y. Filed Dec. 10, 1919. Serial No. 343,862. 6 Claims. (Cl. 179—185.)



6. A sanitary appliance of the character designated, comprising a cap plate formed with a peripheral flange adapted to embrace the rim of a mouthpiece and with apertures communicating with the interior of the mouthpiece when the device is positioned thereon, and also with a socket having an apertured bottom, and an antiseptic cartridge positioned in said cap plate socket, for the purpose described.

1,345,735. COUPLING. CHARLES A. BAILEY, Chicago, Ill. Filed Dec. 16, 1918. Serial No. 266,891. 4 Claims. (Cl. 64—90.)



1. The combination with a pair of rotary members of a coupling connecting said members so as to rotate together, said coupling comprising a sleeve adjustable axially on one of said members and a ring adjustable circularly around the sleeve, and means for simultaneously clamping the ring on the sleeve and the sleeve on the said member.

1,345,736. CIGAR-DRILL. ROBERT R. BAILEY, Chicago, Ill. Filed Apr. 14, 1919. Serial No. 289,978. 1 Claim. (Cl. 131—20.)



A cigar drill comprising, in combination, a member, one end of which is in the form of a hollow cylinder and the other end in the form of a substantially conical socket, adapted to receive the closed end of a cigar, which is rigid with the cylinder and has a bore opening into the same, a guide plunger loosely fitting into the cylinder so that it may be rotated or moved back and forth by movements independent of each other, a twist drill rigidly connected with said plunger and adapted to be projected through the bore into the socket, and a stem rigidly connected with the plunger extending through the other end of the cylinder whereby the drill may be forced through the end of a cigar in the socket by a twisting movement and withdrawn from the same by a straight longitudinal movement to make a clean perforation in the end of the cigar.

1,345,737. RAZOR-BLADE HOLDER. ROBERT R. BAILEY, Chicago, Ill. Filed July 23, 1919. Serial No. 312,734. 10 Claims. (Cl. 30—14.)



1. In a device of the class described, the combination with a safety razor blade having a central opening, of a holder comprising two reversible portions covering a portion of the sharp edge of the blade and between which the blade is located, said portions being secured to the blade through the central opening, whereby when they are together they form a handle for the blade and when one is turned in the opposite direction they shield the cutting edges of the blade.

1,345,738. [WITHDRAWN.]

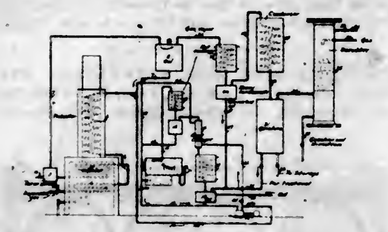
1,345,739. SLEEVE-FORMER. ISAAC BANK, Hammonton, N. J. Filed Aug. 5, 1919. Serial No. 315,392. 4 Claims. (Cl. 223—17.)



1. A sleeve former which comprises in combination the following elements:—a pair of oppositely-disposed forming blocks which when placed together possess a longitudinally curved external shape and are formed with opposite sockets,—means for connecting said forming blocks which embrace a hollow, cylindrical, slotted rod the ends of which enter sockets in the forming blocks,—stop pins which pass through the sockets in the forming blocks, are fixedly connected to said blocks and pass through the slot in the stop rod,—and a spring encircling the stop rod,—and a spring encircling the stop rod and bearing at its ends against the stop pins,—whereby the forming blocks can be compressed together by compressing the spring and be separated by the expansion of the spring.

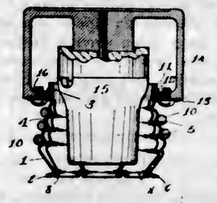
1,345,740. PROCESS OF DISTILLING PETROLEUM. PASCAL MCDONALD BIDDISON, Columbus, and HUGH T. BOYD, Homer, Ohio. Filed Feb. 15, 1918. Serial No. 217,440. 4 Claims. (Cl. 196—25.)

1. That process in the art of distilling liquid residues of petroleum distillation having a boiling point of upward of 400° F. for the obtaining of low-boiling-point hydrocarbons, which consists in circulating the oil from and back to a bulk supply of the liquid; maintaining on the oil a pressure which prevents fractional distillation, not less than the pressure under which the vapors are condensed, by means of injected highly heated gas; continuing the cracking and starting distillation by causing highly heated gas to flow through the cracking zone, cooling the gases and vapors in an auxiliary condenser sufficient to condense oils less volatile than the desired



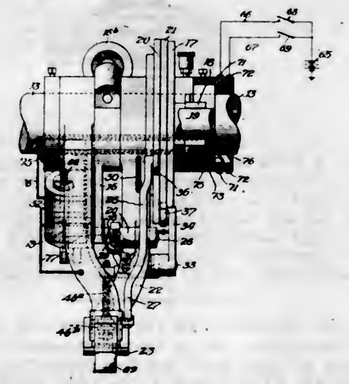
product; further cooling the gas and vapors in the main condenser; absorbing the last traces of gasolene from the gas in an absorber by means of an absorption menstruum, as described.

1,345,741. LAMP-SHADE HOLDER. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed July 13, 1918. Serial No. 244,778. 5 Claims. (Cl. 240—115.)



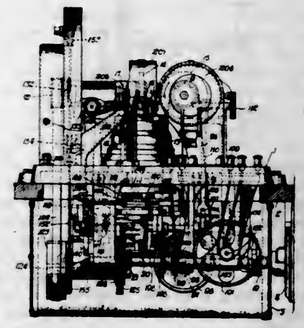
1. A lamp shade holder comprising an expansible and contractile sleeve and a member for contracting the sleeve in the form of a spiral coil encircling the sleeve and rotatable thereon and movable axially thereof during the rotatable movement, substantially as and for the purpose described.

1,345,742. SHEET-GUIDE ADJUSTMENT. JOSEPH R. BLAINE, Oak Park, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 10, 1917. Serial No. 190,474. 7 Claims. (Cl. 271—53.)



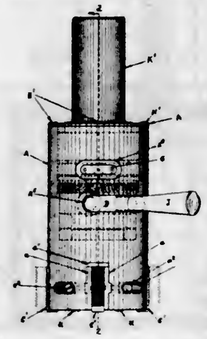
5. The combination of means for imparting register to a sheet fed to a printing couple having grippers comprising a gage support, a gage adjustably connected to the support and revoluble at the speed of the cylinder grippers, and stationary means to vary the adjustment of said connection whereby to adjust the position of the gage while the press is in motion, said adjusting means comprising a screw spindle connecting the gage and gage support, a worm wheel on said screw spindle, a worm shaft, a worm on said shaft in engagement with the worm wheel, a ratchet wheel on the worm shaft, a pair of magnets arranged one on each side of the worm shaft with their armature cores substantially in the plane of the ratchet wheel, a pawl carried by each of the armature cores, a spring pressing each of said pawls normally into engagement with opposite sides of the ratchet wheel, means for retracting said pawl out of engagement against the operation of the spring, independent electric circuits one for each of said magnets, a push-button switch in each of said circuits whereby either of the magnets may be energized independently of the other at will in order to rotate the ratchet wheel in either one of two directions.

1,345,743. MEANS FOR GRINDING AND SLOTTING CARBON DISKS AND THE LIKE. HARRY BLOUNT, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 7, 1917. Serial No. 153,045. 15 Claims. (Cl. 29—38.)



1. In a device of the class described, a rotatable turret, a plurality of rotatable chucks mounted therein, a plurality of grinding wheels arranged adjacent to the path of rotation of said chucks, and a notching wheel also arranged near said path of rotation, means for rotating said chucks when adjacent to said grinding wheels, but not when adjacent to said notching wheel, and means for moving said notching wheel during a period when the adjacent chuck is stationary.

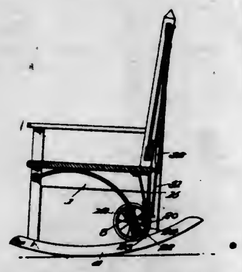
1,345,744. COLLAPSIBLE TAP. RUDOLPH A. BOEHM, Erie, Pa., assignor to Rickert-Shafer Company, Erie, Pa., a Corporation of Pennsylvania. Filed June 9, 1919. Serial No. 302,786. 10 Claims. (Cl. 10—145.)



1. A collapsible tap comprising a body member having radial slots in one end thereof and a cylindrical chamber

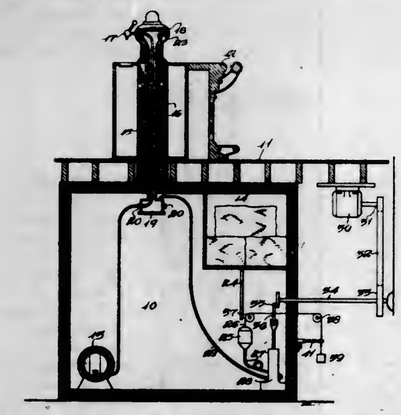
in the opposite end thereof, chasers slidably secured in said slots, longitudinally movable means within said body member engaging the inner ends of said chasers adapted to shift the same, the diameter of said chasers being greater than the diameter of said body member, rotating means mounted on said longitudinally movable means adapted to impart longitudinal movement thereto, a shank, a hub thereon slidably mounted within the cylindrical chamber in said body member, means to prevent rotary movement of said hub within said body member, and means to yieldingly press said hub inwardly in said body member, substantially as set forth.

1,345,745. ATTACHMENT FOR ROCKING-CHAIRS. JOHN B. BOYLE, Crozet, Va. Filed Aug. 16, 1917. Serial No. 186,577. 5 Claims. (Cl. 155—9.)



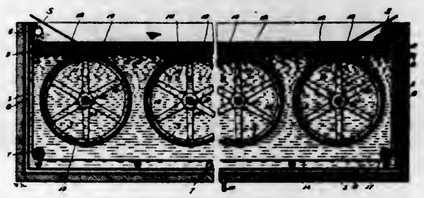
5. The combination with a rocking chair, of a foot rest connected with the forward portion of the chair for swinging movement and supported for backward and forward travel, the foot rest being movable to position to extend forwardly beyond the chair and to position beneath the seat of the chair, a tongue on the foot rest, a bracket secured to and depending from the seat of the chair and having an opening near its lower end, a latch pivoted intermediate its ends to the lower end of the bracket to be engaged by the tongue on the foot rest, a pin on the latch playing through the opening in the bracket and provided with a head to engage the bracket, a spring secured on the bracket and bearing upon said head, and a pull rod slidably mounted on the back of the chair and having its lower end attached to the upper end of the latch.

1,345,746. APPARATUS FOR COOLING AND DISPENSING BEVERAGES. EDWARD R. BROWN, Boston, Mass. Filed Mar. 20, 1915. Serial No. 15,826. 6 Claims. (Cl. 62—33.)



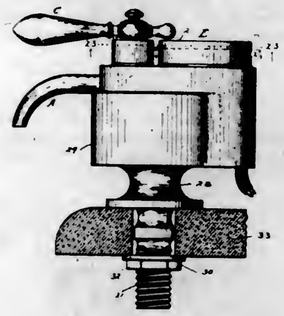
3. The combination of a refrigerator, a standpipe having a closed bottom leading from said refrigerator, a dispensing pipe leading from the interior of said refrigerator into and through said standpipe, an ice box in said refrigerator, a pump, and automatic means for causing said pump from time to time to transfer the accumulated water of liquefaction from said ice box to said standpipe.

1,345,747. MACHINE FOR SATURATING PAPER-STOCK. ELISHA J. CADY, Oak Park, Ill. Filed Nov. 5, 1919. Serial No. 335,840. 2 Claims. (Cl. 91—46.)



1. In a saturating machine, a tank for a saturating solution, a plurality of drums having open ends and perforated bodies arranged in spaced tandem relation in the tank, a pair of spaced guides arranged above the top of each drum to provide an upper passage thereto, and a single endless open apron moving on the drums and their spaced guides to provide a continuous supporting run for the stock moving in a series of curved legs across the tandem line of the drums and in tangential legs between adjacent drums.

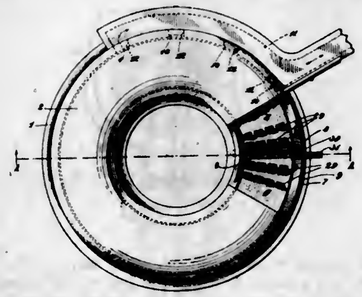
1,345,748. ELECTRIC FAUCET. HOWARD K. CLOVER, Los Angeles, Calif., assignor to Clover Electric Corporation, Los Angeles, Calif., a Corporation of Nevada. Filed Jan. 14, 1919. Serial No. 271,017. 11 Claims. (Cl. 219—39.)



7. In a device of the character disclosed, a dispensing device provided with a valve and valve handle, means for heating fluid to be passed to said dispensing device, a controller for said heating means, a housing for said controller, said housing being rotatably mounted, and operative connections between said device and its handle and said housing whereby said controller is operated.

1,345,749. METHOD AND APPARATUS FOR COOLING INGOT-MOLDS. RAY G. COATES, Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa., a Corporation of New York. Filed Oct. 25, 1919. Serial No. 333,420. 47 Claims. (Cl. 263—44.)

27. A cooling device for large castings, such as ingot molds and the like, comprising in combination a chamber adapted to receive hot castings, a suitable floor within said chamber, a conduit for withdrawing air from said chamber, and means to control the withdrawal of the air, said chamber being constructed to provide for the removal of the cooled castings and the addition of hot castings, the



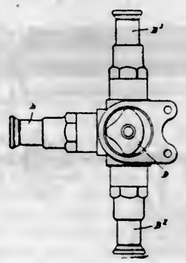
means to control the air being operable to cause the air current to proceed from the cool castings toward the hot castings.

1,345,750. BELT. NORMAN DE BEAUMONT, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,209. 2 Claims. (Cl. 241—8.)



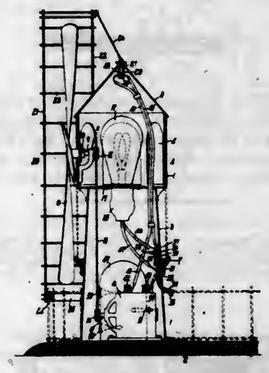
2. In combination, a leather strap end having a pair of metal studs and a connecting plate rigidly secured thereto, said plate holding said studs in parallelism and said studs extending outwardly from said strap at spaced points along the length thereof and presenting rounded head portions, and a second leather strap end of a thickness slightly less than the height of said studs and having apertures formed directly therein and spaced apart along the length thereof and slightly smaller than said stud ends whereby the apertures may be forced over the stud heads by a slight stretching of the leather at the apertures when the strap ends are superposed.

1,345,751. MULTIPLE-WAY STOP-VALVE. JOHN DEWRANCE, London, England. Filed Sept. 23, 1918. Serial No. 255,362. 2 Claims. (Cl. 277—18.)



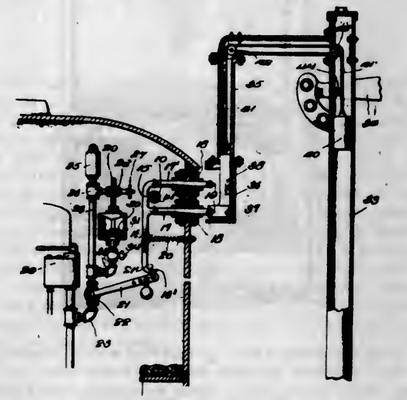
1. A multiple-way stop valve comprising a central chamber, a plurality of branches extending therefrom in angular relation, valves for controlling said branches, said valves having an operative part extending into the chamber and a cam mounted within the chamber, having a plurality of projecting points disposed to simultaneously engage in different positions the operative parts of different groups of valves.

1,345,752. ELECTRIC LAMP AND FAN. HUNT DIEDRICH, New York, N. Y. Filed June 16, 1919. Serial No. 304,501. 5 Claims. (Cl. 240—2.)



1. A device of the character described having, in combination, a hollow casing provided with openings, an electric motor within said casing, a fan rotatably mounted on the outside of said casing in alinement with said openings, means connecting said motor to said fan, whereby a rotary motion may be imparted thereto, and an electric lamp located within said casing and positioned to cast rays of light through said openings and across said fan.

1,345,753. AUTOMATIC OR SAFETY TRAIN-STOP MECHANISM. FRANK A. DIODATO, North Collins, N. Y., assignor to Dio-Kads Corporation, Buffalo, N. Y., a Corporation of New York. Filed Aug. 25, 1919. Serial No. 319,533. 7 Claims. (Cl. 246—186.)



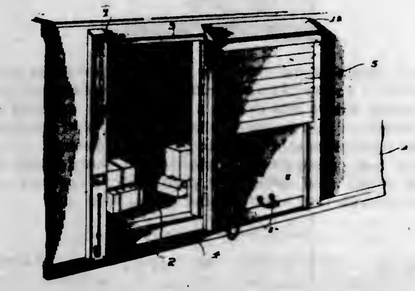
5. In train stop mechanism, a visual signal arranged along the railroad way and movable to and from train passage and train stop positions, a contact block, suspending means for said contact block operatively connected with said visual signal whereby said suspending means are automatically raised and lowered by and with said signal, to support said contact block at various elevations, said contact block when suspended at its various elevations being either in inoperative or operative position relative to means on a passing locomotive adapted to be actuated by said block to stop the locomotive, said visual signal, contact block, and their connections, being so arranged that the contact block will be suspended at inoperative position when the signal is at train passage position, and will be suspended in operative position when the signal is at train stop position.

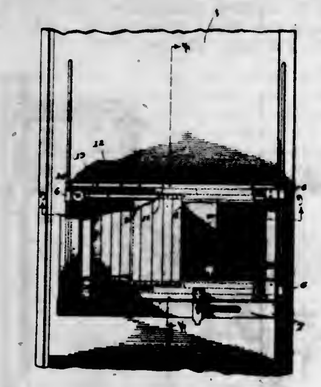
1,345,754. CONDENSER AND METHOD OF MAKING THE SAME. WILLIAM DUBILIER, New York, N. Y. Filed Oct. 30, 1918. Serial No. 260,366. 18 Claims. (Cl. 250—41.)



1. The method of making condensers which comprises assembling alternate layers of conducting elements and mica sheets and subjecting the same to such high pressure as to effect intimate contact and practically absolute and complete surface union of such elements and mica sheets.

1,345,755. CAR-DOOR. ROBERT ANDREW EDGAR, Carlyle, Kans., assignor of one-fourth to Henry T. Rentfroe and one-eighth to John A. Sellers, Carlyle, Kans. Filed Dec. 7, 1918. Serial No. 265,723. 1 Claim. (Cl. 20—26.)

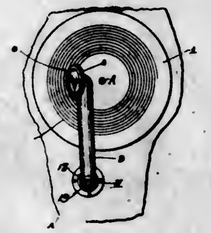




In combination with a car having a door opening, and a door mounted to slide over and away from over the door opening, said door having an auxiliary door opening at its lower end and extending approximately the full width of the main door and substantially flush with the floor of the car when the door is closed, an auxiliary door for closing the opening, said main door having a passage above the auxiliary door opening in which the auxiliary door is mounted to slide, and having vertical passages at each side of the door opening and of the first named passage, and counterweights in the last named passages and connected to the auxiliary door to operate the same.

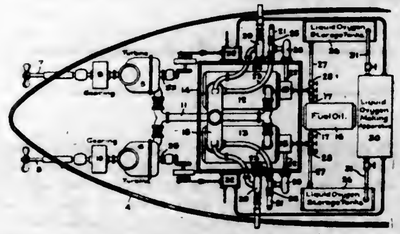
1,345,756. TALKING-MACHINE. VICTOR H. EMERSON, New York, N. Y., assignor to Emerson Phonograph Company, Inc., a Corporation of New York. Filed Feb. 18, 1916. Serial No. 79,218. 8 Claims. (Cl. 274—28.)

1. In a talking machine provided with a record having record grooves therein, a sound box having a stylus, a tone arm, means for supporting said sound box on said tone arm and permitting a shifting of the sound box with respect to the tone arm for a position in which the side



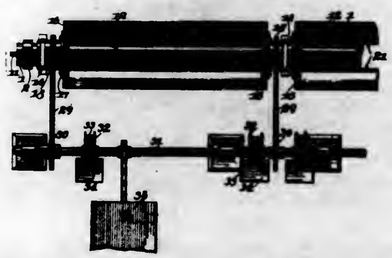
of the stylus tracks upon one edge wall of the record groove to a position in which the side of the stylus tracks upon the other edge wall of the record groove, substantially as described.

1,345,757. PROPULSION OF SUBMARINE VESSELS. WILLIAM L. R. EMMET, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 15, 1918. Serial No. 244,838. 4 Claims. (Cl. 60—105.)



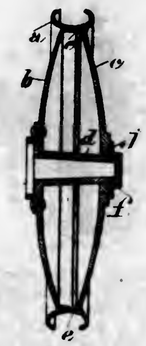
1. In combination, an elastic fluid engine, a boiler for supplying elastic fluid thereto, means for circulating furnace gases through the boiler, liquid oxygen storage tanks, means for supplying oxygen from said tanks and fuel to said furnace gases to form a combustible mixture, means for discharging the excess of furnace gas over-board, and apparatus for supplying liquid oxygen to said tanks.

1,345,758. SOLAR STEAM-GENERATOR. ARTHUR V. FOLSOM, Jacksonville, Fla. Filed Feb. 14, 1919. Serial No. 277,088. 7 Claims. (Cl. 126—271.)



1. A solar heater, comprising a reflector having heads and hubs, each provided with a bore in alinement, means for rotatably supporting the reflector at the hubs, a tubular boiler disposed longitudinally of the reflector and extending through the aforesaid bores in circumferentially spaced relation, means for fixedly supporting the tubular boiler, means having driving engagement with said hubs for turning the reflector, and means for regulating the rate of movement of said driving means.

1,345,759. DISK WHEEL FOR MOTOR-CARS. JOSEPH MARIE ETIENNE FRANC, St. Vallier, France. Filed Feb. 15, 1918. Serial No. 217,417. 1 Claim. (Cl. 21—69.)



A disk wheel comprising a hub, a dished circular disk having an inwardly turned concave flange fixed centrally on one end of said hub, a circular rim portion having a concave base fixed around said flange and having its one edge curved inwardly and its other edge thickened to form an annular grooved seating, a removable dished circular disk provided with a central orifice adapted to fit on said hub and having its periphery inwardly curved and being inwardly bent adjacent said inwardly curved periphery so as to form a circular inward projection adapted to coincide with and lie in said grooved seating, and a central nut for fixing said removable disk upon said hub.

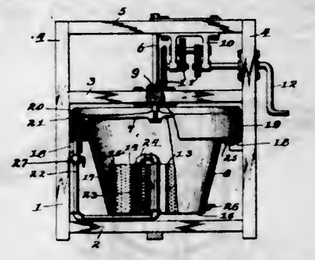
1,345,760. INVALID'S BED. EDWIN P. FAYE, Milburn, W. Va. Filed Feb. 5, 1919. Serial No. 275,139. 3 Claims. (Cl. 5—12.)



2. An invalid's bed comprising a lower rigid frame, an upper frame including head, foot and body sections, means hingedly connecting the meeting ends of the sections together, depending threaded bars carried by each section, means carried by the lower frame for receiving and adjusting each threaded bar, the head and foot sections of the upper frame being formed of slidably connected portions to allow for contraction or extension of these sections as the threaded bars are adjusted, as and for the purpose specified.

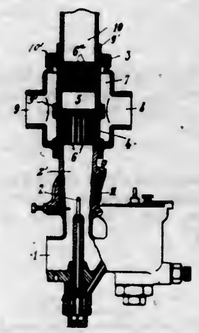
1,345,761. CENTRIFUGAL CLOTHES-WASHING MACHINE. JAMES J. FULTON, Guerneville, Calif. Filed Jan. 8, 1920. Serial No. 350,078. 7 Claims. (Cl. 68—18.)

3. A washing machine comprising a frame, a revolubly mounted imperforate tub, a cylindrical wall in the center of said tub, a plurality of perforated walls around said first wall and spaced therefrom and from each other,



a tank surrounding said tub, and means for carrying the water from said tank through the bottom of and into said tub.

1,345,762. FUEL-HEATER. ALBERT GÉNAULT, Courbevoie, France. Filed Sept. 19, 1918. Serial No. 254,852. 3 Claims. (Cl. 251—241.)

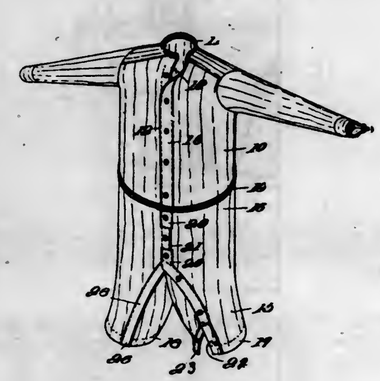


3. The combination with a carbureter having an outlet branch, of a heater casing detachably connected to the outlet branch and provided with an inlet and an outlet, a pair of superposed and partially nested blocks located in the heater casing and each provided with a series of integral walls dividing the blocks into a series of longitudinal passages, one of the blocks being recessed at the adjacent ends of the blocks to provide an expansion chamber, the outer surfaces of the blocks being spaced away from the wall of the heater casing to provide a heating chamber having the outer surface of the blocks at its inner wall, a second outlet branch bearing against the upper block, and means detachably connecting the second branch and heater casing and holding said blocks in fixed position within the heater casing.

1,345,763. COMBINATION-GARMENT. ANNA GOLD, Fredericksburg, Tex. Filed Jan. 25, 1919. Serial No. 273,090. 1 Claim. (Cl. 2—144.)

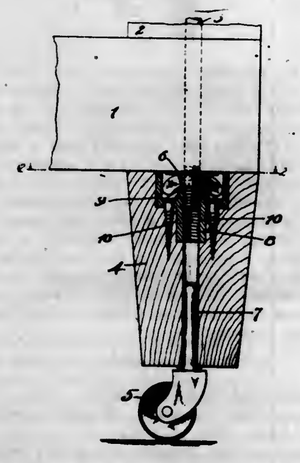
A combination garment comprising a shirt portion and a drawers portion united into a single integral garment by a waist seam, said shirt portion having a closure band and a fastener band extending from the neck to said waist seam, said drawers portion having a closure band and a fastener band positioned to form continuations of the first mentioned bands from said waist seam to the crotch, whereby a fly is provided at the crotch, the closure band and fastener band of the drawers portion extending longitudinally along one leg of the drawers from the crotch to the extremity of the leg, the other leg of the drawers being split from the crotch to the extremity of the leg and provided with means for normally closing said split

portion, and fastening devices carried by the fastener bands and positioned to be engaged by the closure bands, said waist seam being positioned to extend diagonally up-



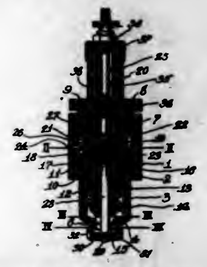
ward from the front to the rear to lengthen the seat portion of the drawers, whereby the fastening devices for both legs may position themselves on the inside of the legs of the wearer.

1,345,764. REFRIGERATOR CONSTRUCTION AND REMOVABLE LEG. HERBERT J. GWYER, Yonkers, N. Y. Filed Jan. 16, 1920. Serial No. 351,914. 4 Claims. (Cl. 45—48.)



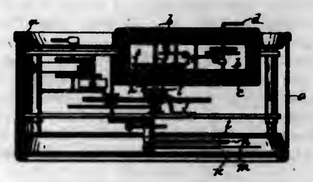
1. In a cabinet, a bolt carried by the cabinet and projecting from the lower part thereof, a nut screwed onto said bolt and leaving a portion of the threaded end exposed for engagement by the leg, a detachable leg comprising a body, a threaded sleeve rigidly secured in the upper end of said leg and threaded to screw on to said bolt, and a recess or chamber in the upper end of said leg to afford clearance space for the nut on said bolt, said sleeve cooperating with said nut to hold said bolt.

1,345,765. SPARK-PLUG. GEORGE HADRICH, Highland Park, Mich., assignor of one-third to Theodore C. Betzoldt and one-third to Maxwell W. Benjamin, Detroit, Mich. Filed June 30, 1919. Serial No. 307,760. 4 Claims. (Cl. 123—169.)



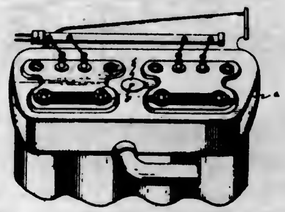
1. A spark plug having a fixed electrode, a reciprocable electrode, and means for holding said reciprocable electrode stationary, said fixed and reciprocable electrodes having teeth adapted to mesh when the reciprocable electrode is reciprocated relative to said fixed electrode.

1,345,766. CLOCK. LAURENS HAMMOND, Detroit, Mich. Filed July 14, 1919. Serial No. 310,741. 8 Claims. (Cl. 58—53.)



1. In a clock, a sound proof container disposed interior thereof containing the escapement mechanism separating the same from the remaining clock mechanism.

1,345,767. METHOD AND APPARATUS FOR INDICATING HEAT. LAURENS HAMMOND, Detroit, Mich. Filed Feb. 7, 1920. Serial No. 356,999. 4 Claims. (Cl. 116—106.)

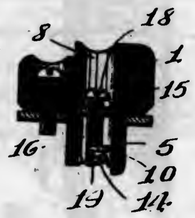


1. The process of detecting whether or not an engine has been heated to a certain temperature by affixing thereto a configured stamp formed of such material that when the engine has been heated to such temperature the stamp will fuse sufficiently to obliterate the configuration thereon so as to indicate such fact.

1,345,768. ELECTRICAL APPLIANCE. HAROLD P. HASTINGS and JOHN J. DOSSERT, Syracuse, N. Y., assignors to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed June 24, 1918. Serial No. 241,560. 3 Claims. (Cl. 173—259.)

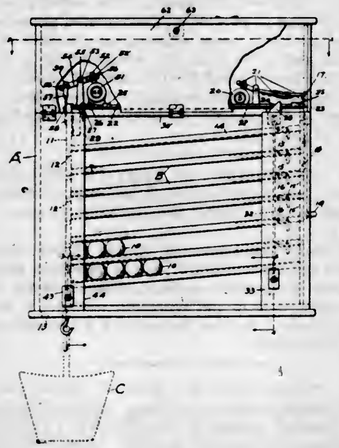
2. An electrical appliance comprising a base, a conductor mounted on the base, a binding device in the form

of a U-shaped clip extending transversely relatively to the conductor and having the branches of the U-shaped formation arranged above and below the terminal and the intermediate part thereof extending crosswise of the conductor, and a screw threading through one of the branches



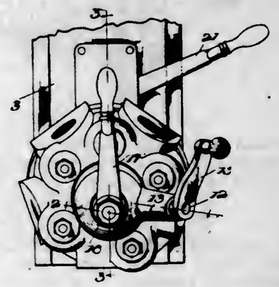
of the U-shaped clip and abutting against the opposing side of the conductor, the intermediate part of the U-shaped clip being formed with a slot thereby providing bars at opposite ends of the U-shaped clip and the conductor being formed with notches for receiving the bars, substantially as and for the purpose described.

1,345,769. BALL-RACK. THOMAS R. HAYES and LAWRANCE E. KITSON, Portland, Oreg. Filed Feb. 20, 1919. Serial No. 278,274. 2 Claims. (Cl. 235—91.)



1. In a ball rack provided with a casing, the combination therein of a plurality of racks adapted at one end to receive balls of desired diameter, a vertically movable slide adjacent to the receiving ends of said racks, the slide being provided with dogs upon its inner face and recesses therein opposite the closable racks, a slidable rod positioned to engage the slide in its recesses and having a spring to retain it in such engagement, and a lug upon the rod, a vertically movable rod having a cam plate on its upper end arranged to engage the lug on the slidable rod and move the rod out of engagement with the slide and to release it into engagement therewith, means to lock, unlock and raise or lower said vertical rod, and a register provided with mechanism extending therefrom toward the said slide and arranged in a manner whereby the dogs upon the slide, when moving upwardly, will engage said mechanism and by its means cause the register to tally and may pass said mechanism, when moving downwardly, without causing the register to tally.

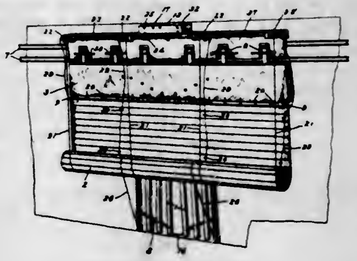
1,345,770. OPERATING DEVICE FOR THE TURRETS OF MACHINE-TOOLS. ERNEST C. HEAD, Rochester, N. Y., assignor to Colburn Machine Tool Company, Franklin, Pa., a Corporation of Pennsylvania. Filed Nov. 10, 1917. Serial No. 201,241. Renewed Feb. 24, 1919. Serial No. 278,935. 6 Claims. (Cl. 29—49.)



1. In combination, a turret, a pivot on which said turret is rotatably mounted, a gear rigidly connected with said turret, a housing non-rotatably mounted upon said pivot, a gear member carried by said housing and rotatable on an axis intersecting the axis of said pivot at an acute angle, said gear member being in mesh with said gear, and means to rotate said gear member.

5. In combination, a turret, a pivot for said turret provided with a screw-threaded extension, a gear rigidly connected with said turret, a housing splined to said pivot, a clamping nut carried by said screw-threaded extension for moving said housing into clamping relation with said turret, means for rotating said nut, a gear member in mesh with said gear and mounted in said housing on an axis intersecting the axis of said pivot at an acute angle, and means to rotate said gear member.

1,345,771. BREACH-MAT. JOHN R. HEWETT, Schenectady, N. Y. Filed May 27, 1918. Serial No. 236,913. 26 Claims. (Cl. 114—229.)

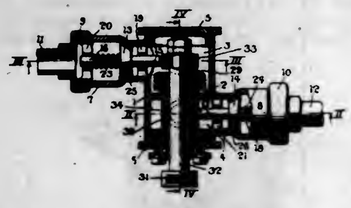


1. A breach mat comprising a plurality of beams normally held in a horizontal position, a sheet member normally rolled up, means for releasing said beams so that they may move into a vertical position, and means for releasing said sheet member so that it may unroll over said beams.

1,345,772. THROTTLE-VALVE. PHILIP D. HIBNER, Seattle, Wash. Filed Jan. 28, 1919. Serial No. 273,627. 2 Claims. (Cl. 277—3.)

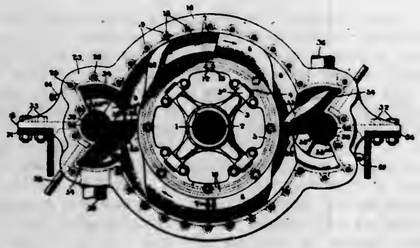
1. A throttle valve casing having separate pairs of fluid inlet and outlet ports, valves normally closing said inlet ports, valve stems, a throttle lever having a shaft rotatably mounted in the casing, cams on said shaft opposite

their respective valve stems for engaging the valve stems and shaped to simultaneously open the said valves as the



shaft is rocked to a certain position, one of said cams being also shaped to open one of said valves only, when the shaft is rocked to another position.

1,345,773. ROTARY ENGINE. PHILIP D. HIBNER, Seattle, Wash. Filed Mar. 11, 1919. Serial No. 281,953. 23 Claims. (Cl. 123—15.)



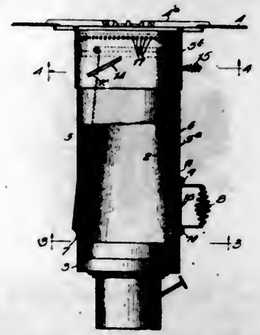
1. In a rotary engine, a casing having an annular chamber, a piston head traveling therein and coaxial rotating and oscillating valves for controlling the admission of motive fluid to said chamber, the rotating valve being driven from the engine shaft and the oscillating valve being controlled in its movements by the piston head.

1,345,774. CURB-PUMP. SHERWOOD HINDS, Fort Wayne, Ind. Filed Sept. 26, 1917. Serial No. 193,259. 8 Claims. (Cl. 221—102.)



1. A curb pump comprising pumping mechanism, an operating member, a discharge hose, a casing entirely inclosing the entire pumping mechanism with the exception of the operating member and the said hose, and common locking means for the member and the hose.

1,345,775. OIL-STOVE. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Company, Chicago, Ill., a Corporation of New York. Filed May 3, 1917. Serial No. 166,084. 2 Claims. (Cl. 126—45.)

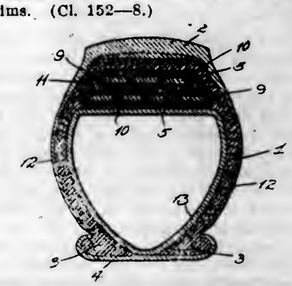


1. In an oil stove, the combination with a fixed top having a grate, and a burner stationarily supported below the grate, of a unitary heat-conducting device carried solely by the burner and comprising a chimney, a drum surrounding the chimney so as to provide an annular air space between the chimney and drum, the lower ends of said chimney and drum being rigidly secured together and there being air inlet openings communicating with the lower part of said space, said chimney and drum being mounted to tilt upwardly about a pivot point near their lower edges so as to provide a space to give access to the burner, and a tubular upper section freely movable relative to the upper end of the drum and adapted to be supported thereby either in a lowered position such as to permit of a tilting of the device upon its support unrestrained by the grate or in operative position immediately adjacent the underside of the grate.

1,345,776. PRODUCTION OF TEXTILE FIBROUS MATERIAL. MAARTEN HOFSTÉ, Amsterdam, Netherlands. Filed Jan. 2, 1920. Serial No. 349,050. 8 Claims. (Cl. 92—10.)

1. The process of preparing textile fibrous materials from stalks and other parts of plants especially of plants with a hard woody rind or bast, such as ramie, which comprises producing in the vegetable material a gas liberated by chemical reaction for causing a mechanical laying bare of the fibers.

1,345,777. VEHICLE-TIRE. HALL H. HOLDAWAY, Los Angeles, Calif., assignor, by mesne assignments, to The Adams-Campbell Company, Incorporated, a Corporation of California. Filed Dec. 14, 1915. Serial No. 66,731. 5 Claims. (Cl. 152—8.)



1. A vehicle tire casing provided in the tread thereof with two groups of ring members, one group being of less width and outside of the other group, said rings being made of flat spring material, each of said rings being covered, and means binding said rings together side by

side in each group, and means binding the two groups together within said tread, substantially as described.

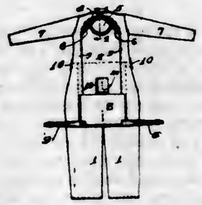
3. A vehicle tire comprising a casing having layers of fabric constituting the body portion thereof, a series of rings of spring material embedded in the tread portion of the casing, tire fabric incasing each of said rings, a tire fabric incasing the series of rings, and an inflation member arranged within the rings for keeping them in position and for assisting in the distending of the tire casing.

1,345,778. STOVEPIPE-LOCK. GEORGE WASHINGTON HORMEL, Wichita, Kans., assignor to George McConnell Glenn, Wichita, Kans. Filed July 7, 1919. Serial No. 308,990. 3 Claims. (Cl. 285—185.)



1. A stove pipe lock, comprising a stationary member and a movable member, and coacting means carried by the members for frictionally locking the movable member against movement when the members are in alined position.

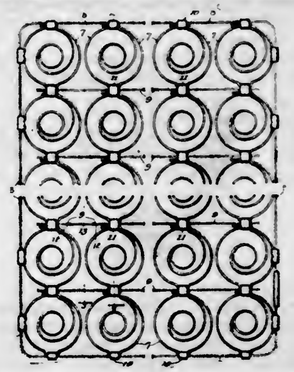
1,345,779. OVERALLS. ARTHUR HOSMER, Chicago, Ill. Filed Oct. 26, 1918. Serial No. 259,811. 3 Claims. (Cl. 2—144.)



1. A garment of the class described, comprising leg portions, a front body portion integral with said leg portions and having a neck opening at the top thereof, said front body portion being extended into a neck band adapted to fit over the shoulders and around the back of the neck of the wearer, side flaps extending from said front body portion around the sides of the body and partially covering the back, said side flaps being separated to provide an opening therebetween to admit the body of the wearer into the garment, and a flap secured along the lower edge of the rear opening and adapted when raised to overlap the side flaps and to close the lower half of the back opening up to approximately the waist-line.

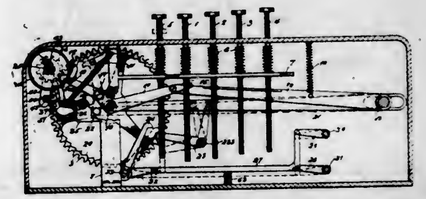
1,345,780. SPRING STRUCTURE. OZELLO R. HUNT, Chicago, Ill., assignor to Cushion Spring Engineering Corporation, Chicago, Ill., a Corporation of Illinois. Filed May 23, 1919. Serial No. 299,200. 12 Claims. (Cl. 5—29.)

1. The combination of a hollow member the walls of which are capable of being crushed into deflected condition, an element gripping said member, with the portions of the latter gripped by said element, in deflected condition forming an interlock between said member and ele-



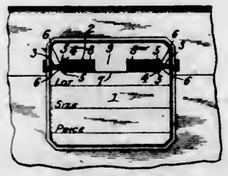
ment, preventing slippage of said element on said member, and reinforcing means located in said member, for the purpose set forth.

1,345,781. ADDING-MACHINE. JUSTIN T. HURLEY, New York, N. Y. Filed May 18, 1918. Serial No. 235,317. 16 Claims. (Cl. 235—82.)



1. In a machine of the class described, the combination of digit wheels, a single driving element provided with two pivotal operating points arranged in operative relation with respect to the wheel and providing a shiftable fulcrum to vary the degree of radial movement of said driving element, a series of depressible elements which may be operated individually and whose movements when depressed in pairs operate said driving element on both pivotal fulcrum points to increase the degree of radial movement of said driving element to produce digit indication equivalent to the combined numerical value of the pair of keys operated.

1,345,782. CLOTHING-TICKET. JOHN ALWYN KELLER, Bay Shore, N. Y. Filed Dec. 18, 1918. Serial No. 267,303. 6 Claims. (Cl. 40—2.)



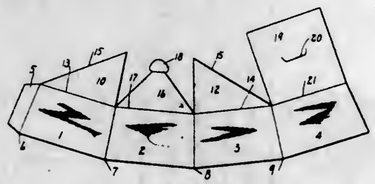
6. A clothing ticket having at its opposite side edges lateral slits forming an open channel extending from the edge and terminating in a body perforation extending above and below the terminal end of the slit, and having an open-ended flap intermediate of said body perforations and in line therewith.

1,345,783. THUMB-SUCKING PREVENTER. ERNEST BYRON KELLY, Chicago, Ill. Filed Aug. 27, 1917. Serial No. 188,377. 11 Claims. (Cl. 128—133.)



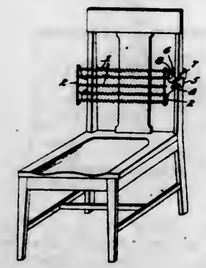
1. In a device of the class described the combination of a bracelet, means for engaging a member of the hand and a member extending between the bracelet and said means, said bracelet means and member being connected together to produce a rigid construction for the purpose specified.

1,345,784. BOX. WILLIAM C. KITT, Cincinnati, Ohio. Filed May 7, 1919. Serial No. 295,383. 1 Claim. (Cl. 229—16.)



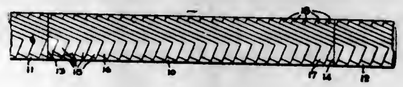
A box composed of sides forming a body therefor, provided with a bottom flap, shaped to form the bottom of the box and carrying a slit therein, two side flaps, each of said side flaps having a straight outside line and an inclined line running from the outer edge of said straight line down to the point where the flap meets the body of the box, and a triangular shaped locking flap carrying a button at its outer extremity, said side flaps capable of being folded over onto the bottom flap and at their free ends overlapping each other, and said locking flap and its button capable of being folded over onto the overlapped side flaps, its locking button engaging the slit in the bottom flap and passing therethrough to lock the parts together.

1,345,785. ADJUSTABLE BACKREST. WILLIAM J. KOCH, La Crosse, Wis. Filed Mar. 9, 1920. Serial No. 364,589. 5 Claims. (Cl. 155—158.)



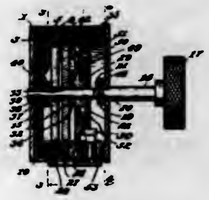
1. A back rest attachment for chairs, seats and the like comprising a pair of attaching devices having forwardly extending independently adjustable arms, and a longitudinally expansible and contractible back rest carried by outer ends of said arms.

1,345,786. ART OF MAKING CORES FOR ELECTRICAL APPARATUS. MASAKICHI KUBO, Tokyo, Japan, assignor to General Electric Company, a Corporation of New York. Filed Oct. 14, 1915. Serial No. 55,790. 1 Claim. (Cl. 29—148.)



The method of manufacturing core laminations for electrical apparatus whose dimenisonal component longitudinally of the stock is a non-multiple of the stock's longitudinal dimension; which consists in welding strips of stock together edge to edge, and in successively striking laminations from said stock in continuous advance transverse to the welded edge.

1,345,787. LOCK. CHARLES EDWARD LEIFER, Little Rock, Ark. Filed Jan. 13, 1920. Serial No. 351,133. 3 Claims. (Cl. 70—53.)



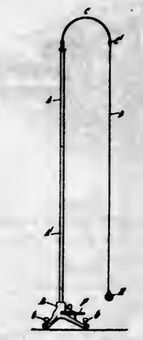
1. In a device for the purpose set forth, the combination of a casing, a tumbler shaft rotatably and slidably mounted in the casing and provided with spaced annular grooves and a notch establishing communication between the grooves, a stop mounted on the casing and selectively engaging said grooves to hold the shaft in either its forward or rear position, and permit its rotation, a plurality of tumblers mounted concentric with the shaft, means whereby rotation of the shaft will set the tumblers, means whereby some of the tumblers will follow the sliding movement of the shaft, the remaining tumblers becoming inactive, and a movable member controlled by the tumblers.

1,345,788. LEVER OPERATING MECHANISM FOR OIL-CANS. GUSTAVE LIDSEEN, Chicago, Ill. Filed Mar. 19, 1917. Serial No. 155,716. 4 Claims. (Cl. 74—39.)



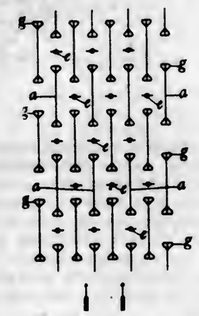
1. In a device of the class described a plate, a socket formed thereon having a slot therein, a lever projecting through said slot, means on said lever adjustably seated in said socket to afford a fulcrum for the lever, and retaining means on said plate for adjustably holding said means in place.

1,345,789. APPARATUS FOR PLAYING A GAME OF SKILL WITH A CAPTIVE BALL. CHARLES MONTAGUE LINLEY, London, England. Filed Mar. 24, 1920. Serial No. 368,398. 13 Claims. (Cl. 46—59.)



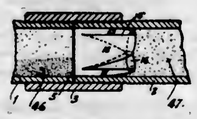
1. In combination with a revoluble shaft, of a ball suspended therefrom to afford means for imparting rotation to the shaft, an indicator device for indicating the number of rotations made by the shaft, and means for actuating said indicator device upon the rotation of said shaft.

1,345,790. ELECTRICAL DEPOSITION OF PARTICLES FROM GASES. LIONEL LODGE, Birmingham, England, assignor to The Lodge Fume Company, Limited, Birmingham, England. Filed May 10, 1920. Serial No. 380,340. 5 Claims. (Cl. 183—7.)



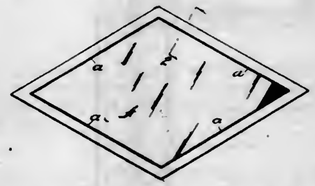
1. In chambers for use in the electrical deposition of particles from gases, the combination comprising plates forming channels for the gases, discharge electrodes situated transversely and longitudinally between the plates, and deflectors for deflecting the gases toward the sides of the channels when passing longitudinally by the discharge electrodes, substantially as described.

1,345,791. GASEOUS MIXER DEVICE. FRANK M. LIVINGSTONE, Springfield, Mass., assignor to Fuel Economy Company, Springfield, Mass., an Associated Trust of Massachusetts. Filed Apr. 27, 1918. Serial No. 231,152. 4 Claims. (Cl. 48—180.)



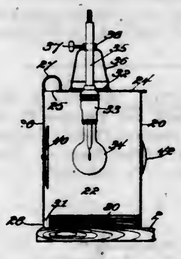
1. An article for the purpose described, having a plurality of curved fingers that are spaced from each other at their outer side edges, the inwardly extending curved edges 15^3 of the delivery ends 15^4 of the curved portions of the fingers intersecting with the curved ends 15^4 of the delivery end portions of the fingers and meeting in the axis 19 of the article and their outer side edges $15'$ being located in a curve the locus of which is a cylinder and of a diameter which is equal to the base portion of the article, each of said fingers being bent at their outer delivery ends 15^4 into a form that is substantially a semi-circle.

1,345,792. IMITATION-BEVELED-GLASS PANEL. JOHN A. MCAVOY, Chicago, Ill., assignor to McAvoy Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 15, 1919. Serial No. 330,918. 2 Claims. (Cl. 49—92.)



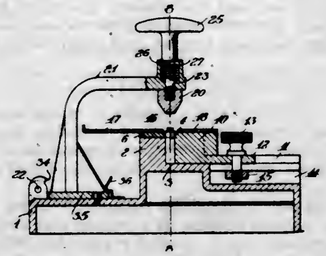
1. A glass panel having for simulating a bevel, a groove parallel to the margin and endless within the face of the panel, said groove being only of sufficient depth to cause refraction of light at the lines which it occupies.

1,345,793. MOTION-PICTURE MACHINE. ISIDORE MARKS, Boston, Mass., assignor to Keystone Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 17, 1919. Serial No. 331,297. 3 Claims. (Cl. 240—41.)



1. A light box for motion picture machines having front and side walls, a cover shorter than the side walls forming an opening at its rear end, an open ended hood covering said opening and a back having an opening at its lower end.

1,345,794. CHECK-PRINTER. ANTHONY MASSI, Rochester, N. Y. Filed Aug. 14, 1919. Serial No. 317,507. 7 Claims. (Cl. 101—381.)



7. In a check printing machine, the combination with a bed recessed to receive the types, of a form plate secured to the bed and having fingers projecting laterally into the recess to provide individual spaced pockets for

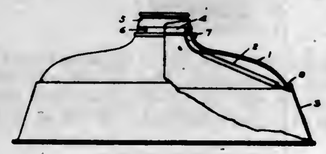
the types, a movable clamping member forming the opposite wall of the recess and a two part check supporting bed overlying the printing bed, part of which check supporting bed is carried by the clamping member.

1,345,795. THERMOMETER. HERBERT P. MILKER, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., of Brooklyn, N. Y., a Corporation of New York. Filed July 25, 1919. Serial No. 313,155. 8 Claims. (Cl. 73—52.)



1. A thermometer comprising a light pervious body, a tube extending lengthwise thereof, edge members upon said body and clamping means connected with said edge members and whereby said tube is maintained against unintentional movement relatively to said body.

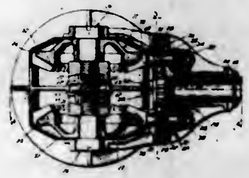
1,345,796. REFLECTOR. WILLIAM F. MINOR and PHIL C. KELLER, Cleveland, and THOMAS W. ROLPH, Sebring, Ohio, assignors to General Electric Company, a Corporation of New York. Filed Mar. 15, 1919. Serial No. 282,868. 5 Claims. (Cl. 240—103.)



1. A reflector for use with artificial light sources comprising a lower metal light reflecting element, a metal heel spaced from said element, means connecting said reflecting element and said heel whereby the former is supported through the latter, and a glass transmitting element covering the space between said metal element and said heel.

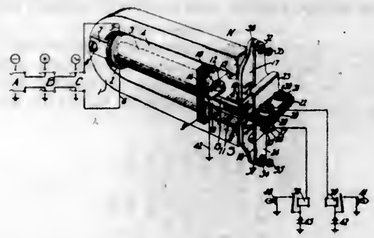
1,345,797. LIFTING-JACK. JOSEPH J. MIZER and VICTOR JAKOB, Racine, Wis., assignors to Walker Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed Sept. 5, 1919. Serial No. 321,871. 12 Claims. (Cl. 254—103.)

1. A lifting jack comprising a standard, a lifting member slidably mounted therein, an actuating gear seated in said standard and having threaded engagement with said lifting member, gears rotatably mounted on opposite sides of said standard and meshing with said actuating gear, an operating handle pivotally connected to said standard and having means adapted to alternately and operatively engage the gears mounted on the sides of said standard to cause said actuating gear to rotate in one direction, reversing mechanism associated with and operated from the



end of said handle whereby said means acting through said side gears may be positioned so as to rotate said actuating gear in the opposite direction.

1,345,798. ELECTRICAL RELAY. LOUIS A. MORTIMER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,528. 2 Claims. (Cl. 200—93.)



1. A relay comprising a U shaped permanent magnet, an iron core supported thereby and extending midway between the legs thereof, a magnetizing coil mounted on said core, a pair of armatures mounted on said core, one of said armatures extending over one pole of the permanent magnet, the other of said armatures extending over the other pole of the permanent magnet, and a contact member for each of said armatures, said contact members being supported by the said core and insulated therefrom and from each other.

1,345,799. WATER GLASS AND COLUMN REFLECTOR AND PROTECTOR. JOHN A. MOYER, Harriman, Pa. Filed Dec. 2, 1919. Serial No. 341,853. 5 Claims. (Cl. 73—54.)

1. In a device of the character stated, a shield comprising a back having an elongated slot therein for admitting light to the back of a gage glass, a light chamber arranged in proximity to said shield, a transparent front for said shield, and laterally extending top and bottom apertured ears for securing said shield in position with respect to a gage glass.

2. In a device of the character stated, a shield comprising a back having an elongated slot therein, a light chamber for an illuminating device, said shield having transparent front and side openings and laterally extending top and bottom apertured ears for securing said shield in position.

3. In a device of the character stated, a shield comprising a back having an elongated slot therein, a light chamber for an illuminating device, said shield having transparent front and side openings and laterally extending top and bottom apertured ears for securing said shield in position in combination with the supporting arms of a gage, and guard rods passing through and common to said ears and arms.



4. In a device of the character stated, a shield comprising a concave back having an elongated slot therein, a light chamber for an illuminating device extending in proximity to said shield and having internal curved reflecting walls for deflecting rays of light through said slot upon the back of a gage glass, upper and lower laterally extending apertured ears for securing said shield in position, a front door having tempered glass therein for preventing the gage glass in case of breakage from being scattered exteriorly of the shield, and a transparent side window.

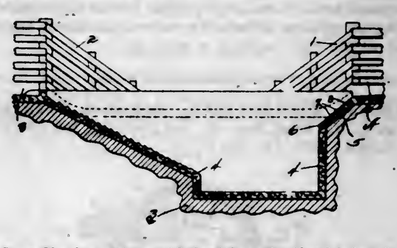
5. In a device of the character stated, a shield comprising a concave back having an elongated slot therein, a light chamber for an illuminating device extending in proximity to said shield and having internal curved reflecting walls for deflecting rays of light through said slot upon the back of a gage glass, upper and lower laterally extending apertured ears for securing said shield in position, a front door having tempered glass therein for preventing the gage glass in case of breakage from being scattered exteriorly of the shield, and a transparent side window in combination with a gage glass, apertured arms projecting therefrom and guard rods passing through and common to said ears and arms.

1,345,800. FOUNDATION-GIRDLE. LENORA E. MULLIN, Oak Park, Ill. Filed Sept. 27, 1919. Serial No. 326,801. 5 Claims. (Cl. 241—8.)



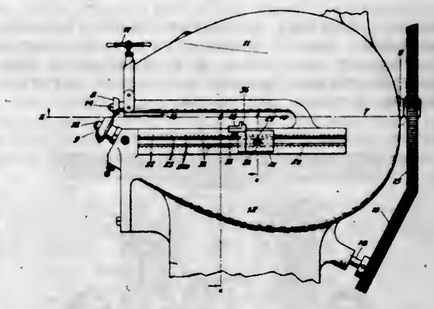
4. A girdle formed of material cut on the bias and adapted to encircle the body of the wearer, said material having the center thereof cut on oppositely facing curved lines extending from the center to each end of the girdle, the oppositely facing edges of said curved lines being formed on different curves, and vertical stays disposed in said girdle at predetermined distances apart.

1,345,801. DIPPING-VAT. THOMAS L. MULLINS, Aubrey, Tex. Filed Oct. 18, 1919. Serial No. 331,656. 4 Claims. (Cl. 119—158.)



1. In a dipping vat provided with an inclined inlet chute, bearing bars mounted on each side of said incline, antifriction rollers, and journals for said rollers journaled in said bearing bars.

1,345,802. GAGE FOR SHEET-METAL SHEARS, &c. FREDERICK E. MUNSCHAUER, Buffalo, N. Y., assignor to Niagara Machine & Tool Works, Buffalo, N. Y., a Corporation of New York. Filed Apr. 28, 1919. Serial No. 293,369. 3 Claims. (Cl. 164—60.)



1. A shearing machine having a main frame provided with upper and lower arms forming a gap and said lower arm being provided on one of its longitudinal sides with a horizontal T-shaped groove, and a longitudinal guideway on the outer side of said lower arm and on opposite sides of said groove, a carriage slidable horizontally and lengthwise in engagement with that side of the lower arm having the groove and guideway and provided with a longitudinal guide rib engaging with said guideway, a T-bolt passing through said carriage and having its head arranged in the large part of said T-groove and bearing with its nut against the outer side of said carriage, and a gage bar extending transversely over said lower arm and secured at one end to said carriage.

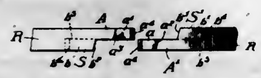
1,345,803. DEFLECTING SPIGOT-TAP. WILLIAM EDGAR MUNTZ, London, England. Filed May 10, 1917. Serial No. 167,747. 7 Claims. (Cl. 299—138.)



1. A tap adapted to effect the functions described comprising, a casing having a wide, elongated discharge orifice

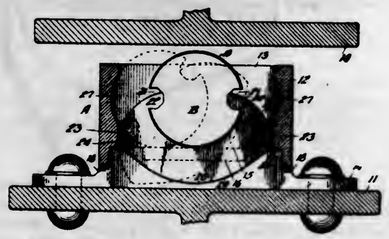
in the outer end, a rotatable spigot plug located in said orifice, an elongated slot in the said plug, the said slot having a cross sectional area as great as the minimum cross sectional area of the supply pipe, means for rotating the said plug so as to deflect the outflowing fluid in any direction within the limits of a wide arc.

1,345,804. PACKING-RING. EDWARD R. NORMAN, Chicago, Ill. Filed Nov. 28, 1917. Serial No. 204,311. 4 Claims. (Cl. 74—109.)



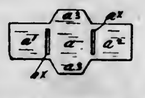
1. A packing-ring having a step-joint formed by two meeting ends, the abutting portions of the joint being diagonal at obtuse angles to the circumferential line of division of the joint and provided with radially disposed coacting tongues and shoulders on opposite sides of its median line and having longitudinally extended coöperating bearing surfaces forming longitudinally extended seals.

1,345,805. GRAVITY SELF-CENTERING ROLLER-BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Mar. 1, 1919. Serial No. 279,939. Renewed May 26, 1920. Serial No. 384,509. 5 Claims. (Cl. 64—64.)



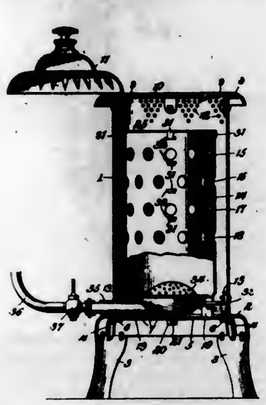
1. In an anti-friction bearing of the character described, the combination with a hollow retaining member adapted to be secured to a bolster of a car and having a pair of parallelly arranged, spaced, flat, longitudinally extending bearing seats, of an anti-friction cylindrical roller having its ends adapted to roll along said seats, and an eccentrically disposed, separately formed, weight rigidly attached to said roller adapted to automatically return the latter to normal position after each actuation upon removal of the actuating pressure.

1,345,806. STRAP-SEAL. SIDNEY J. OANSTON, New York, N. Y. Filed Sept. 10, 1919. Serial No. 322,809. 2 Claims. (Cl. 292—315.)



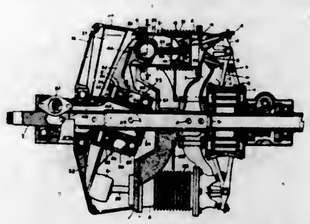
2. A strap seal of the character designated, comprising the overlapping strap ends, and an embracing coupling consisting of a single blank of sheet metal formed with a central outer portion or face plate, strap slots, and overlapping end extensions in close contact with each other, the lateral edges of said central outer portion or face plate being bent around and under the said overlapping end extensions of the blank, and the straps and superposed plates of the coupling being punctured to clench the parts together, for the purpose described.

1,345,807. GAS HEATER AND COOKER. JOHN S. E. PANASEVITCH, Northampton, Mass. Filed Sept. 3, 1919. Serial No. 321,430. 2 Claims. (Cl. 126—85.)



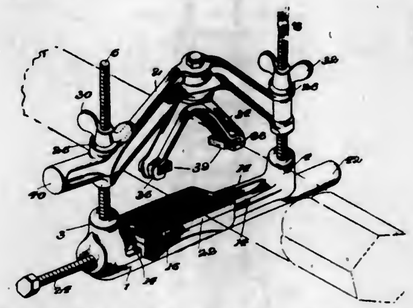
1. A gas stove comprising a heat radiating casing, a drum within the casing spaced from the side walls thereof, said drum having superposed series of circumferentially arranged passages through its upright wall, and division plates or partitions in superposed order within the drum, with each plate carried by the drum immediately below a corresponding circumferentially arranged series of passages, the lowermost plate or partition having a central passage through it with surrounding perforations, the higher plates having passages through them smaller than the central passage through the lowermost plate and in staggered relation, and the top of the drum being provided with numerous small passages or perforations therethrough, the plate nearest the heating element being of heavier gage than the plate above the same and so on up to the top plate.

1,345,808. ROTARY-GAS-ENGINE CONSTRUCTION. GEORGE A. REYNOLDS, Indianapolis, Ind. Filed Nov. 11, 1918. Serial No. 261,962. 14 Claims. (Cl. 123—43.)



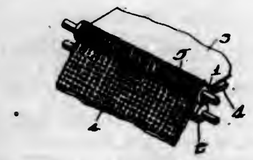
1. A rotary gas engine including a plurality of revoluble cylinders, pistons in said cylinders, and a spider near the ends of the cylinders and rotatable on an axis at an angle to the axis of revolution of the cylinders and connected with and actuated by the pistons and parts of the spider adapted to engage the walls of the cylinder and cause their revolution along with the spider.

1,345,809. DEVICE FOR REFINISHING AXLES, CRANK-SHAFTS, &c. GEORGE H. TABER, Binghamton, N. Y., assignor to Emco Manufacturing Company, Inc., Binghamton, N. Y., a Corporation of New York. Filed Dec. 26, 1919. Serial No. 347,632. 10 Claims. (Cl. 29—76.)



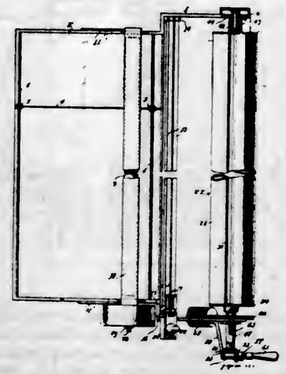
1. In a device of the character described, two frame members adjustable toward each other, one of said members having a clamping member and the other a sliding carriage provided with a cutting tool, substantially as described.

1,345,810. LINOLEUM. JOHN J. TOMEC, Trenton, N. J. Filed Sept. 16, 1918. Serial No. 254,164. 3 Claims. (Cl. 154—49.)



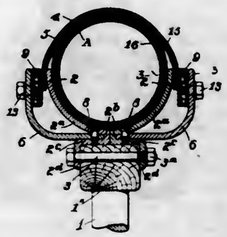
1. A new article of manufacture including a sheet of linoleum composition and a sheet of relatively thin fibrous material, the opposing, contacting surfaces of each of which are provided with projections and depressions, the projections of one fitting into the depressions of the other, substantially as described.

1,345,811. CLOTH-MEASURING MACHINE. JOHN T. TULLIS, Hope, Ark., assignor of one-half to J. N. Riley, J. P. Brundidge, Eldridge Greening, Albert Betts, and Harry Alphy, Hope, Ark. Filed Aug. 6, 1917. Serial No. 184,684. 14 Claims. (Cl. 33—131.)



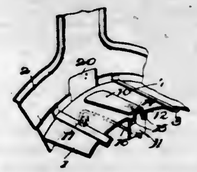
1. A cloth measuring machine embodying a receptacle, a cloth winding means coöperating with the receptacle, a bar over which the cloth is movable, means for supporting the bar independently of the winding means, means for measuring the cloth as it traverses the bar, a cloth gripper on one end of said bar, and a cutter movable along the bar over said gripper to a point beyond the gripper.

1,345,812. RESILIENT-TIRE CONSTRUCTION. ERNEST VELTUNG, New York, N. Y., assignor, by direct and mesne assignments, to Veltung Steel Tire Company, a Corporation of Delaware. Filed Aug. 19, 1919. Serial No. 318,444. 8 Claims. (Cl. 152—17.)



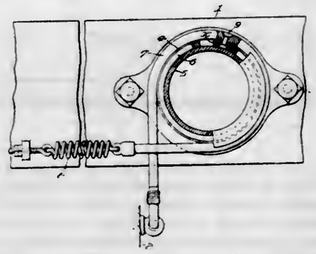
5. In a resilient tire an annular rim adapted to be secured to a wheel felly and having a peripheral channel, an endless inflatable tube in said channel, said rim having oppositely faced annular grooves, annular rings having laterally extending walls secured in said grooves, and having outwardly extending walls spaced from the channel walls of the rim, sectional rings detachably connected to said annular rings, said sectional rings having radial grooves in their inner faces open at their inner ends, and resilient tread members overlying said inflatable tube and having studs on their ends slidingly engaging said grooves.

1,345,813. MOTION-PICTURE-FILM REEL. MOSES F. WALKER, Cadiz, Ohio. Filed Mar. 14, 1918. Serial No. 222,436. 9 Claims. (Cl. 242—57.)



1. The combination with a film reel, of means carried thereby and controlled through the unwinding of the film to give audible signal when all but a predetermined length of the film has been unwound.

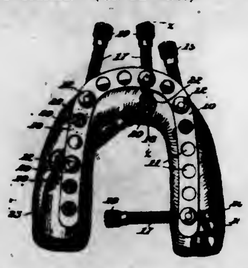
1,345,814. MOTION-CONTROLLING MECHANISM. JOHN W. WATSON, Wayne, Pa. Filed Mar. 21, 1918. Serial No. 223,764. 30 Claims. (Cl. 267—10.)



1. The combination of relatively movable members, means to cause frictional resistance to their relative move-

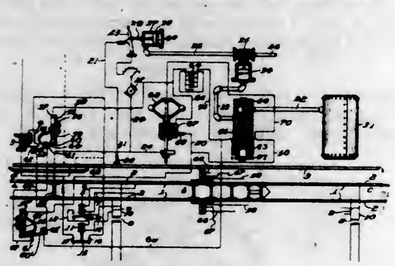
ment in one direction, spring means tending to move said members away from frictional engagement when said members are moved in the opposite direction, said means also operating to relatively move said members in said last-mentioned direction.

1,345,815. PARALLELING DEVICE. LOUIS J. WEINSTEIN, New York, N. Y. Filed Jan. 6, 1920. Serial No. 349,683. 4 Claims. (Cl. 32—10.)



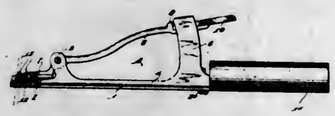
1. In a dental paralleling device, an arcuate base plate, arms rotatably and slidably supported thereon and paralleling elements adjustable in said arms at an angle thereto.

1,345,816. AUTOMATIC TRAIN CONTROLLING AND STOPPING MECHANISM. FRANK C. WILLIAMS, Philadelphia, Pa., assignor to The Safety Block Signal Company, a Corporation of Delaware. Filed April 19, 1917. Serial No. 163,100. 16 Claims. (Cl. 246—40.)



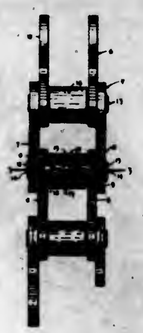
8. In a train stopping device, the combination of a track having a first and second insulated block, a main propulsion supplying current line and an independent train stopping contact section located in each block, means to normally energize said train stopping section and means to automatically deënergize said section of the second block when a train is in the first block.

1,345,817. WELDER'S TOOL. ROY O. WILLIAMS, Columbus, Ohio. Filed Aug. 4, 1919, Serial No. 315,058. Renewed May 15, 1920. Serial No. 381,745. 7 Claims. (Cl. 219—8.)



1. In an electrode-holder, a main structure, a stationary jaw member forming a part of said structure, a movable jaw member pivotally carried by said structure, and said jaw members being provided with coöperative openings extending perpendicularly therethrough, said openings being arranged substantially in registration when said jaw members are separated and out of registration when said members are in closed relation.

1,345,818. LINK CHAIN. FREDERICK C. WITT, Roanoke, Va. Filed July 8, 1918. Serial No. 243,737. 4 Claims. (Cl. 74—32.)

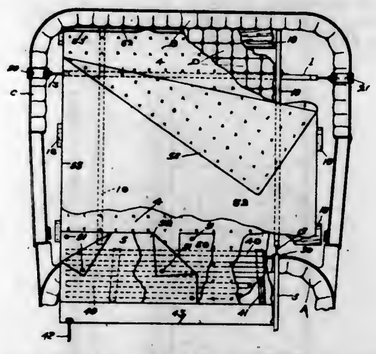


3. A chain comprising inner and outer side bars having their ends in overlapping relation, the outer side bars being provided with recesses in their inner faces and openings communicating with said recesses, rivets extending through the overlapping ends of said side bars and fixed in the openings in said outer side bars, shoulders on the rivets spacing these bars, and a thimble surrounding each rivet and fixed in the inner side bars and having its ends projecting into the recesses of the adjacent outer side bars and spaced from the walls and bottoms of said recesses.

1,345,819. COMPOSITION FOR CLEANSING ARTIFICIAL DENTURES AND THE LIKE. ALLAN SCOTT WOLFE, Washington, D. C. Filed Oct. 1, 1919. Serial No. 327,811. 4 Claims. (Cl. 167—9.)

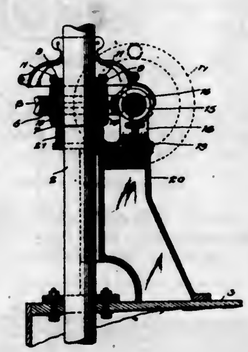
1. A pasty mass for cleansing artificial dentures and the like consisting of an inert filler impregnated with a mucous solvent in quantity sufficient to remove the mucous from the denture, the mixture being suspended in a viscous vehicle, the cleansing mass being readily removable from the denture by washing in water without leaving residue.

1,345,820. AUTOMOBILE-BED. GEORGE W. YOUNG, Seattle, Wash. Filed May 19, 1919. Serial No. 298,245. 6 Claims. (Cl. 5—72.)



1. An automobile bed supporting mechanism comprising a bar adapted to extend across the automobile body above the rear seat, suspension bars having each an arm embracing the upper edge of the automobile side, means for removably securing the ends of said cross bar to said suspension bars, two beams extending lengthwise the car and supported at their rear end by respectively opposite ends of said cross bar, adjustable extensions at the forward ends of said beams, means connected with said extensions for supporting the forward ends of said beams from the back of the front seat, and flooring-members carried by said beams.

1,345,821. DAVIT. SOLOMON E. AARON, Boston, Mass. Filed Mar. 22, 1919. Serial No. 284,474. 13 Claims. (Cl. 9—22.)



1. The combination with a stepped davit, of a standard arranged beside the davit and wholly independent thereof, a slide mounted on the standard and connected to the davit to float therewith in oscillations of the davit bodily with respect to the standard, a gear mounted on the davit, and driving mechanism mounted on said slide and engaging said gear.

1,345,822. VAPORIZER FOR LIQUID FUELS. HENRY ADICKS, Duttons Landing, Calif. Filed Feb. 13, 1920. Serial No. 358,524. 2 Claims. (Cl. 123—180.)



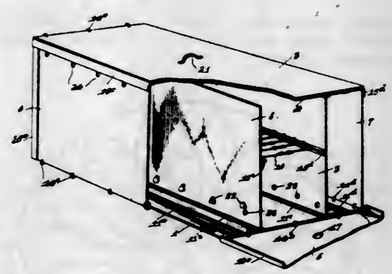
1. A vaporizer for liquid fuels comprising a vertical tube adapted to receive liquid fuel into its upper end and having its lower end open and positioned adjacent the air intake of a carbureter, and pockets formed in the tube whereby the downward passage of the fuel will be retarded, the tube being thoroughly heated before being placed in position.

1,345,823. COLLAR-SUPPORTER. CHARLES W. AHRENS, New York, N. Y. Filed July 16, 1919. Serial No. 311,158. 4 Claims. (Cl. 2—91.)



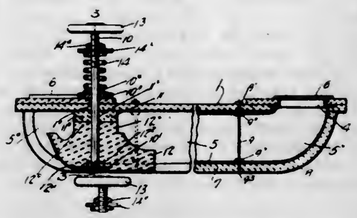
3. In a device of the character described, the combination of a base member adapted to be mounted adjacent a collar button and having oppositely-disposed upstanding posts and a collar-supporting member comprising laterally extending resilient collar-supporting arms and downwardly extending resilient braces connected to the outer ends of said arms and each having a sliding connection at its lower end with one of said posts, collar-engaging members carried by said lower ends of said braces, and adjustable means of connection between said members whereby the height of said collar-supporting arms above said base member may be varied.

1,345,824. COOKING DEVICE. ISABEL LEES BAYLESS, Washington, D. C. Filed Jan. 27, 1920. Serial No. 354,347. 8 Claims. (Cl. 126—27.5.)



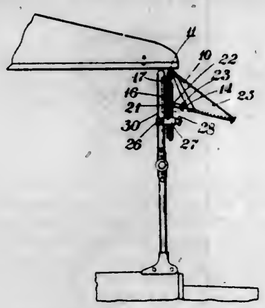
1. A cooking device having in combination, a bottom piece, a plurality of walls hinged to said bottom piece, two top pieces hinged to back wall piece, and means for holding same together set up, all adapted to be set up or folded together, as and for the purpose described.

1,345,825. SLEIGH. MATHEW BEAU, Port Colborne, Ontario, Canada. Filed Dec. 16, 1918. Serial No. 267,088. 2 Claims. (Cl. 280—12.)



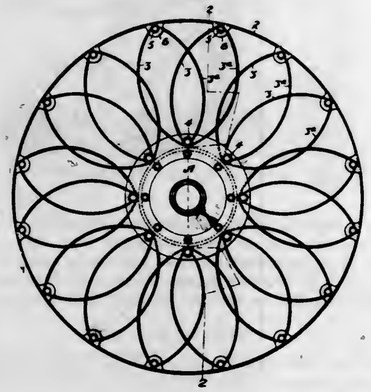
1. In a sleigh, the combination with the sleigh body, of tubular runner bodies extending longitudinally of the sleigh body and having up-turned ends, removable closures for the up-turned ends of the tubular runner bodies, and sleigh runner members extending longitudinally of the runner bodies and following at their ends the curve of the up-turned ends of such bodies.

1,345,826. PROTECTOR FOR WINDSHIELDS. JOSEPH BEDARD, Columbus, Ohio. Filed May 20, 1919. Serial No. 298,390. 4 Claims. (Cl. 296—95.)



3. A wind shield protector including, in combination, a pair of slotted standards, a forwardly projecting frame including upper and lower side bars secured in hinged relation to each other at their forward ends, means for removably attaching the rear ends of said bars to the slotted standards, an opaque flexible cover for the upper portion of said frame, and means for adjustably attaching the slotted standards to the ends of the wind shield frame.

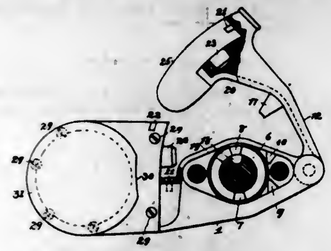
1,345,827. RESILIENT WHEEL. DAVID D. BOHANNON, Berkeley, Calif. Filed Oct. 17, 1918. Serial No. 258,547. 4 Claims. (Cl. 152—29.)



4. A wheel including a metal rim having equally spaced inwardly projecting lugs, pins carried by the lugs, a wheel hub centrally positioned with relation to the rim, a plurality of pins secured in the hub, said pins being half in number to those carried by the rim, and oppositely curved spring spokes arranged in pairs one on each end of each hub pin, the pairs extending outwardly in opposite directions and having their outer ends connected with separate adjacent rim pins and all the spokes being fixed at their ends so as to provide a continuous tensional strain upon the intermediate portions of the individual spokes.

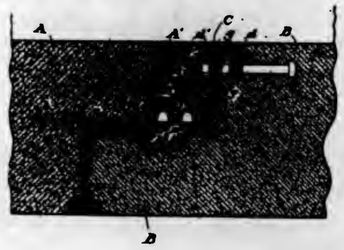
1,345,828. AUTOMOBILE-STEERING-GEAR LOCK. FLETCHER O. BOSWELL, Philadelphia, Pa. Filed Feb. 17, 1919. Serial No. 277,629. 3 Claims. (Cl. 70—90.)

1. In a device of the character described, the combination of a lock casing having formed therewith the main clamping member, a secondary clamping member hinged to the main clamping member, the two clamping members adapted to embrace the casing of an automobile steering post, a locking member also hinged to the main clamping member and adapted to close over the secondary clamping



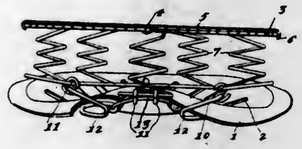
member, lugs projecting from the members for engagement with the steering post casing; and means for locking the locking member in its closed position.

1,345,829. JOINT FOR CONCRETE PIPE. ALBERT J. BOYLE, Baltimore, Md. Filed July 23, 1919. Serial No. 312,719. 2 Claims. (Cl. 72—51.)



1. An expansion joint for concrete pipe comprising a metallic cylinder having one end secured in the end of one concrete section and the opposite one secured to the adjacent concrete section, said pipe having an expansible corrugation intermediate of its length, and means for protecting the folds of the corrugations from the filling, substantially as described.

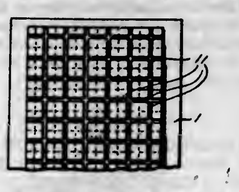
1,345,830. SEAT FOR AGRICULTURAL IMPLEMENTS. JAMES CHRISTOPHER BRIAN, Maxbass, N. D. Filed Sept. 4, 1919. Serial No. 321,563. 1 Claim. (Cl. 155—179.)



An auxiliary seat for agricultural implements, comprising an annular frame, a sheet of perforate material closing the frame, and a series of coil springs connected with the frame at the underside of the sheet inside the frame, and an attaching frame connected with the lower ends of the springs and having means for engaging the seat at the front thereof to connect the auxiliary seat to the seat.

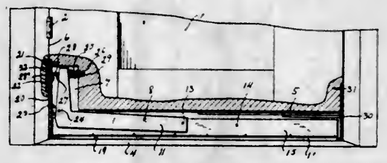
1,345,831. DISPLAY-RACK. JAMES D. BROWN, Glasgow, Scotland. Filed July 12, 1918. Serial No. 244,632. 4 Claims. (Cl. 40—140.)

1. A display rack comprising a board, a frame for said board, means detachably securing display cards to said board either transversely or longitudinally thereof, pairs of brackets arranged on said board, and a strut adapted



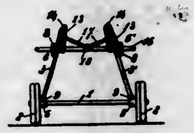
to be detachably secured to either pair of brackets for supporting the device either on its side or end.

1,345,832. WEATHER-STRIP. THOMAS M. CAMPBELL, Dallas, Tex. Filed May 28, 1919. Serial No. 300,256. 2 Claims. (Cl. 20—68.)



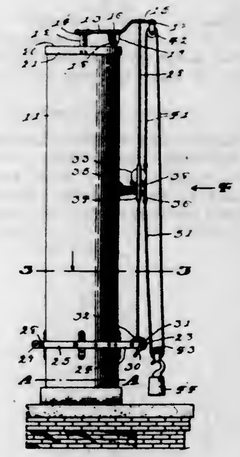
1. The combination with a door having a right angle chambered out portion at its lower edge portion adjacent the hinged edge portion, of a cover plate for the vertical part of the right angle chambered out portion, a support pivoted on the cover plate and substantially conforming to the right angle chambered out portion, a weather strip swingingly pivoted to the end of the horizontal arm of said support, said weather strip comprising a sheet metal holder, and a pliable sill engaging member carried by said sheet metal holder, means carried by one of the arms of the support and engaging between the bottom wall of the vertical chambered out portion of the hinged edge of the door and the support for urging the support, whereby it may tilt on its pivot for holding the weather strip raised when the door is open, said yieldingly urging means comprising a spring, and a pin with which the spring is in surrounding relation, said pin being pivoted to the vertical part of the support and protruding through the cover plate, to engage the jamb of the frame, to actuate the support for lowering the weather strip.

1,345,833. LANDING-CARRIAGE FOR FLYING-MACHINES. GIANNI CAPRONI, Milan, Italy. Filed Apr. 22, 1919. Serial No. 292,002. 2 Claims. (Cl. 244—2.)



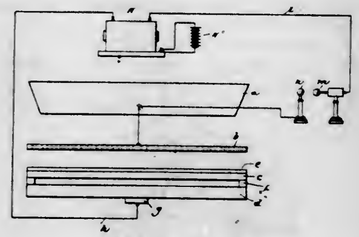
2. In a flying machine having a fuselage frame, a landing carriage comprising a wheel axle, rotatable rings at the ends of said wheel axle, two rear stay rods connected at their lower ends to said rings and inclined to one another as well as in respect of a vertical plane passing through said axle, ball and socket connections between the upper ends of said rods and the fuselage frame, two fore stay rods joined at their ends by ball and socket connections to said rings, said rods being inclined to one another as well as in respect to a vertical plane passing through the axle, the end sections of the rods being provided with longitudinal slots, stirrups on the heads of said sections; a transverse bar depending from the fuselage frame, elastic bands wound on said bar and passing over said stirrups, other rods arranged respectively between a point of said transverse bar and the end sections of said fore stayrods and ball and socket connections interposed in said last mentioned rods.

1,345,834. APPARATUS FOR PAINTING SMOKE-STACKS. LEE CHANDLER, Oklahoma, Okla., assignor of one-half to John D. Allen, Oklahoma, Okla. Filed Nov. 3, 1919. Serial No. 335,489. 5 Claims. (Cl. 91—39.)



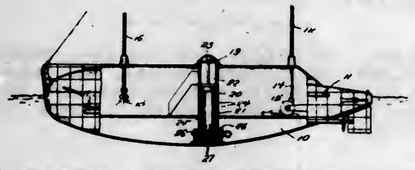
1. In apparatus of the class described, an overhead support, a guiding cable suspended from the support, a paint container arranged to slide along the cable, means for sliding said container, a paint brush attached to the container, and means operable by the sliding means for releasing paint from the container onto the brush.

1,345,835. APPARATUS FOR SEPARATING OR CONCENTRATING FINE METALS FROM PULVERIZED MATERIAL. GIULIO CLÉMENT, Milan, Italy, assignor to Clement Gold Magneto Company, a Corporation. Filed Dec. 16, 1916. Serial No. 137,474. 1 Claim. (Cl. 83—49.)



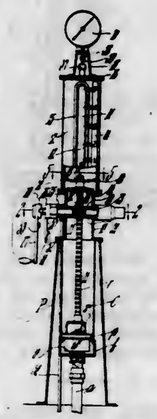
The herein described apparatus comprising a hopper, an electric condenser consisting of a metallic sieve, a non-conductive surface, superposed wooden boards carrying said surface and insulated from one another, a metallic block secured to one of said boards, means for creating an electric current of high tension, an electric conductor connected to said block, another conductor connected to said metallic sieve and a spark gap for regulating the tension of the current.

1,345,836. SUBMARINE. WILLIAM H. COLLIER, Yatesville, Ga. Filed Nov. 1, 1918. Serial No. 260,717. 7 Claims. (Cl. 114—16.)



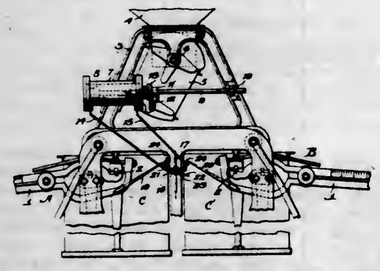
1. In a submarine vessel, a collapsible tower extending from the hull of the vessel and communicating with the interior thereof, means for extending the tower and means for collapsing the same to house the tower within the hull.

1,345,837. LIQUID-DISPENSING APPARATUS. JOHN B. DAVIS, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1919. Serial No. 315,210. 12 Claims. (Cl. 221—100.)



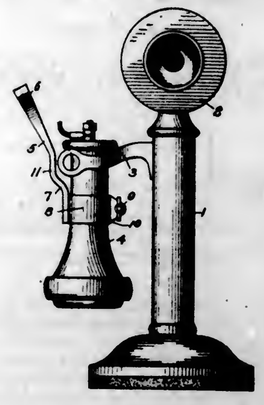
1. The combination with a reciprocating piston pump, of a measuring cylinder alined therewith and having transparent portions, whereby its interior is visible, a member forming a continuation of the pump cylinder to connect the latter to the measuring cylinder, and pump actuating mechanism mounted in said member and including a pinion within the member to reciprocate the piston rod of the pump.

1,345,838. AUTOMATIC WEIGHING APPARATUS. WALTER A. DEVEY, American Fork, Utah. Filed Aug. 16, 1918. Serial No. 250,212. 6 Claims. (Cl. 249—56.)



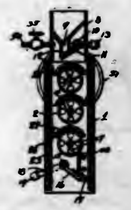
1. The combination with a plurality of independent weighing scales and a source of supply from which materials to be weighed are adapted to be fed to receptacles respectively on said scales, of a movable member for terminating the flow of material to either of said receptacles, fluid actuated means for moving said member, a valve controlling said fluid actuated means, and means operable by the scales to actuate said valve when material of a predeterimned weight has been delivered to one of the receptacles.

1,345,839. TELEPHONE-RECEIVER HOLDER. ALFRED J. DIEBOLD, Pittsburgh, Pa. Filed Apr. 2, 1919. Serial No. 286,924. 1 Claim. (Cl. 179—157.)



The combination with a standard telephone receiver comprising an elongate body having the receiving diaphragm at one end and conductor terminals at its outer end, of a substantially rigid supporting member attached to said body member and projecting therefrom beyond said outer end of the receiver in the same general line of extent of the receiver but slightly laterally therefrom, the outer end of said member being provided with a shoulder rest whereby the telephone receiver may be held between an ear and shoulder of a user solely by urging said ear and shoulder toward each other against said rest and the diaphragm end of the receiver.

1,345,840. WHEAT-STEAMER. KENNEDY DOUGAN, Minneapolis, Minn. Filed July 13, 1916. Serial No. 109,012. 7 Claims. (Cl. 83—27.)



1. The combination in a wheat steamer, of a steaming chamber, having hollow ends, and removable sides, having inwardly extending horizontal shelves rigidly secured thereto, a plurality of rollers rotatable in said steaming chamber disposed one above the other and spaced apart, each roll adapted to be rotated in a direction opposite to that of the one immediately above it, each of said rolls being rigidly secured to a shaft having its ends rotatable in bearings in said hollow ends, said horizontal shelves closing the spaces between one side of each of said rolls and said sides, and means for rotating said shafts.

1,345,841. CARBURETER-LOCK. WILLIAM C. EVANS, Sedalia, Mo., and SAMUEL M. BANCROFT, Wichita, Kans., assignors, by mesne assignments, to The Carburetor Lock Corporation, a Corporation of New York. Filed June 10, 1918. Serial No. 239,278. 3 Claims. (Cl. 251—6.)

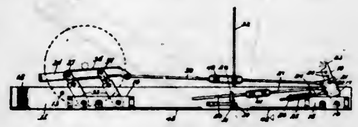


1. In a fuel locking mechanism for carbureters, the combination with a carbureter having a standard fuel-line connection, of a casing inclosing a fuel valve and a lock capable of retaining the valve in closed position, a fuel-line connection on the casing, and a connection integral with the casing and adapted for quick and permanent joinder to said carbureter connection, without modification of the latter.

2. In a fuel locking mechanism for carbureters, the combination with a carbureter having an integral fuel-line connection, of a casing inclosing a fuel valve and a lock capable of retaining the valve in closed position, a fuel-line connection on the casing, and a connection integral with the casing and adapted for quick and permanent joinder to said carbureter connection without modification of the latter.

3. In fuel locking mechanism for carbureters, the combination with a carbureter having an integral fuel-line connection, of a unitary casing inclosing a fuel valve and a lock capable of retaining the valve in closed position, a fuel-line connection on the casing, and a connection integral with the casing and adapted for quick and permanent joinder to said carbureter connection without modification of the latter.

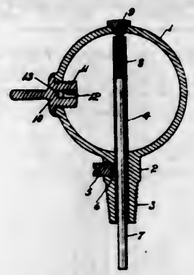
1,345,842. AUTOMATIC AUTOMOBILE-JACK. LOUIS M. FISHER, Clarksdale, Mo. Filed Mar. 11, 1919. Serial No. 282,020. 7 Claims. (Cl. 254—89.)



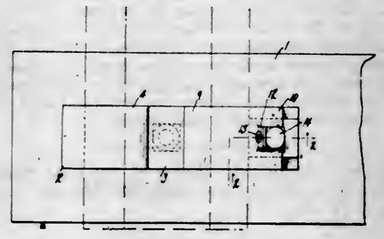
1. In a vehicle jack, means engageable by the forward end of the vehicle for raising the said end, supporting members actuated by the said means for raising the opposite end of the vehicle, means for locking the said means and members in vehicle supporting position, rollers on said members, and contact plates mounted on said rollers and adapted to engage and support the said vehicle.

1,345,843. OILER FOR LOOSE PULLEYS. JOHN JAMES FORTIER and JOHN K. SHERWOOD, Grand Rapids, Mich.; said Sherwood assignor to said Fortier. Filed May 2, 1919. Serial No. 294,304. 6 Claims. (Cl. 184—70.)

4. In combination, a relatively fixed shaft, a pulley having a hub loosely mounted on the shaft, a hollow lubricant container, a screw threaded stem projecting from a side of the container and threaded into the hub at a side thereof, whereby the container rotates with the hub around the shaft, means to introduce a quantity of liquid lubricant into the container, a tube passing through the stem into the container and terminating a short distance from the outer side of the container, a rod loosely mounted in the tube, its inner end bearing against the shaft and its upper end terminating a distance short of the upper end of the tube, a spring housed in the tube between the outer end of the rod and the outer side of the container, and a nut threaded through the outer side of the container against which the outer end of the spring bears, said spring serving to hold the rod with light pressure against the shaft, substantially as described.

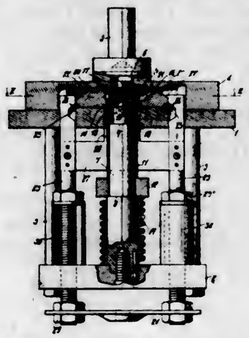


1,345,844. RAIL-CLAMP. VAL F. FRANCK, Louisville, Ky., assignor of one-half to John W. Deming, Louisville, Ky. Filed Nov. 22, 1919. Serial No. 339,843. 3 Claims. (Cl. 238—304.)



3. In a device of the class described the combination of a plate provided with an integral clamp, the free end of said clamp provided with a dove-tailed portion, a removable clamp provided with a dove-tailed groove adapted to engage said dove-tailed portion, said dove-tailed portion provided with a tapered pocket provided with a tapered inside slope adjacent the end of said clamp, an aperture provided within said removable clamp and adapted to register with said pocket, an integral collar provided upon the top of said removable clamp, the bore of which registers with said aperture, a tapered pin adapted to pass through said aperture and into said pocket.

1,345,845. MANTLE-RING-FORMING MACHINE. HARRY JACKSON GREEN, Sebring, Ohio. Filed Mar. 6, 1920. Serial No. 363,814. 10 Claims. (Cl. 25—27.)



1. In a molding apparatus of the character specified, a mandrel, a collar mounted on the mandrel and having

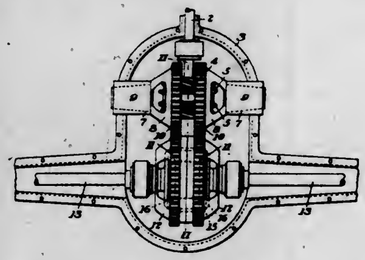
a limited movement thereon, a sleeve encircling the mandrel and collar, and a die co-acting with the mandrel and collar and adapted to move the latter in one direction.

1,345,846. PROCESS OF EXTRACTING METALS FROM THEIR ORES. WILLIAM E. GREENAWALT, Denver, Colo. Filed Dec. 13, 1915, Serial No. 66,621. Renewed Sept. 15, 1919. Serial No. 323,997. 4 Claims. (Cl. 204—15.)



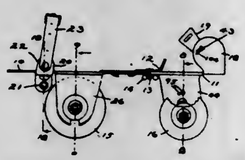
1. A process of extracting copper from its ores which consists in treating the ore with an acid solution to dissolve the copper, separating the rich copper solution from the gangue, washing the residue and thus obtaining a lean copper solution, electrolyzing the solution rich in copper to deposit the metal and regenerate acid, precipitating the lean copper solution with hydrogen sulfid and thus obtaining copper sulfid precipitate from the lean copper solutions, and then applying the copper sulfid precipitate to the electrolyte to reduce the variable valent salts in the electrolyte to their lowest valency.

1,345,847. GEARING. ALBERT W. GRIFFITH, Pittsburgh, Pa. Filed Dec. 6, 1919. Serial No. 342,916. 7 Claims. (Cl. 74—99.)



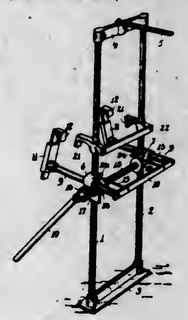
6. Gearing, comprising a driving shaft, a ball member secured thereto and having worm teeth thereon, and two gear members having internal worm teeth which mesh with the worm teeth of the ball member at opposite sides of the axis, the axis of rotation of said ball member intersecting the axes of rotation of the gear members, substantially as described.

1,345,848. ROLLER-SKATE. EMERY EASTMAN HARDY, Brooklyn, N. Y. Filed Aug. 27, 1918. Serial No. 251,609. 14 Claims. (Cl. 46—51.)



1. A roller skate comprising a frame that is composed of a front frame member and a rear frame member having overlapping parts, the said parts comprising a lower part that extends rearwardly from the front frame member and has a longitudinal slot and an upper part that extends forwardly from the rear frame member, overlays the said lower part, and has a T-shaped lug that is projected through the said slot for serving as one means of connection of the frame members, and the said frame members being provided with means for receiving a bolt and nut for serving as a second means of connection of the frame members.

1,345,849. TIRE-SPREADER. THOMAS L. HARKINS, Boston, Mass. Filed Sept. 30, 1919. Serial No. 327,819. 6 Claims. (Cl. 152—27.)



1. A tire spreader comprising a pair of spaced posts suitably supported, claws slidable on said posts, rods horizontally and slidably supported by said posts, claws carried by said rods, and means for forcibly moving said rods to separate the last-named claws from those first mentioned.

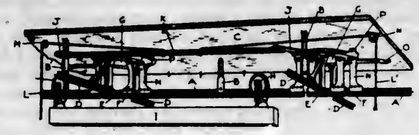
1,345,850. WRENCH. JOHN T. HASLETT, Winchester, Kans. Filed May 15, 1918. Serial No. 234,687. 5 Claims. (Cl. 81—91.)



1. A wrench of the class described comprising a handle, a jaw comprising a shank having a gripping element at its free end and its rear end bifurcated and straddling said handle and pivotally connected thereto at a point spaced from the terminal of the handle, a coöperating jaw bifurcated and straddling the handle in front of said first-mentioned jaw and having a finger extending between the bifurcations of the first-mentioned jaw.

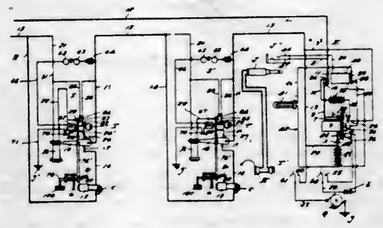
1,345,851. TRACK FOR OVERHEAD CARRIERS. PAUL M. HASSLER and ALBERT H. NELLER, Fairfield, Iowa, assignors to The Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed Apr. 3, 1920. Serial No. 370,955. 7 Claims. (Cl. 104—99.)

1. In tracks for overhead carriers, the combination of a main track, a plurality of cross-tracks spaced apart parallel to each other and intersecting the main track in horizontal alinement, a plurality of trolleys spaced apart to correspond with the cross-tracks and connected together in this relation by an extended horizontally disposed bar forming the basis of an overhead carrier adapted to run endwise upon the main track or sidewise upon the cross-tracks, a switch section at each intersection of the tracks adapted to receive and transfer the trolleys from the



main track to the cross-tracks and vice versa, and means to simultaneously operate the switch-sections and to thereby effect the transfer of the trolleys in unison.

1,345,852. TELEPHONIC CALL SYSTEM. RUBEN C. M. HASTINGS, Columbus, Ohio, assignor to The International Telephone Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 9, 1915. Serial No. 65,944. 18 Claims. (Cl. 179—31.)



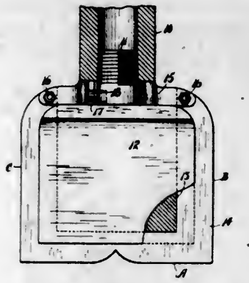
18. In a telephone system, electrically connected receiving and sub-stations, each sub-station including a receiver hook, a receiver, a transmitter, and means for shunting the receiver and transmitter when the receiver is left off the hook; and means for operating the shunting means from the receiving station.

1,345,853. TERMINAL POST FOR BATTERY-CARBONS. EDWIN W. HENGER, Waterbury, Conn., assignor to The Chase Companies, Inc., of Waterbury, Conn., a Corporation. Filed Mar. 13, 1920. Serial No. 365,496. 1 Claim. (Cl. 204—29.)



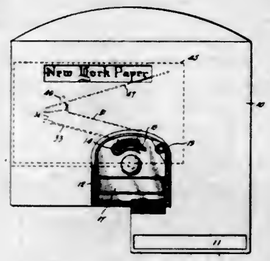
A terminal-post for battery carbons or electrodes, the said post comprising a binding-screw, an anchoring-stem, and an annular bearing-flange between the same, the anchoring-stem being spirally fluted with flutes of relatively coarse pitch as compared with the threads of the binding-screw, whereby the stem holds the post against rotation in the electrode, and prevents its being withdrawn therefrom by pulls in the direction of its length.

1,345,854. DRILL-BIT. WALTER J. HOLLAND, Fairoaks, Calif., assignor of one-fourth to Percy M. Pike and Alvin R. Johnson, San Francisco, Calif. Filed May 13, 1919. Serial No. 296,809. 3 Claims. (Cl. 255—61.)



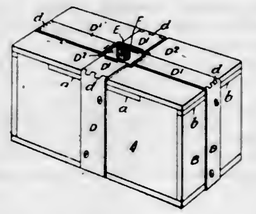
1. A drilling device comprising a flat body member having a shank on one side adapted to enter and be secured to a drill stem, a cutting member positioned around the remaining three edges of the body, a collar inclosing the shank and having lugs in which the separated ends of the bit are detachably held in relation thereto.

1,345,855. NEWSPAPER-VENDING MACHINE. OMAR J. HOTALING, East Orange, N. J. Filed Sept. 18, 1919. Serial No. 324,415. 9 Claims. (Cl. 211—8.)



1. In a newspaper vending machine, the combination of an arm mounted to swing in an arc around a certain axis, a newspaper ejecting arm mounted upon the aforesaid arm and movable therewith, and an actuator carried by the first mentioned arm and coöperating with the latter mentioned arm to cause it to swing around an axis different from that of the first mentioned arm coincidentally with the swinging of both arms.

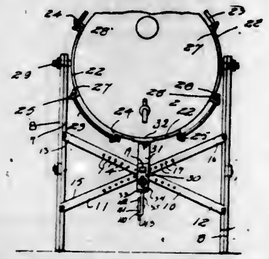
1,345,856. PACKING-CASE. LIONEL WORSLEY HUGHES, Port Said, Egypt. Filed Feb. 6, 1920. Serial No. 356,710. 4 Claims. (Cl. 217—56.)



1. A packing-case comprising a body and a lid, a metallic strengthening band secured to the said body, fastening

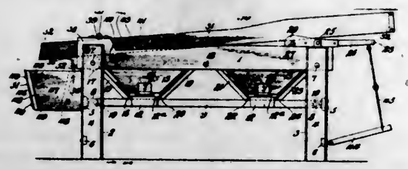
strips hinged to the upper ends of said band, apertured plates on the ends of said strips all the apertures in said plates being arranged to register on the lid of the case, a threaded rod on the lid, and a cap screwed on to the threaded rod.

1,345,857. CONTAINER-HOLDER. JOSEPH HULA, Irving, Kans. Filed Jan. 17, 1920. Serial No. 352,059. 1 Claim. (Cl. 248—58.)



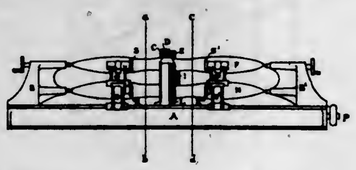
The combination with a plurality of supporting frames adapted to pivotally support a container, of a shank detachably secured to one of said frames, a rest plate on one end of the shank adapted to support the container in a horizontal position, a rod having one of its ends adjustably mounted in the other end portion of the shank, the other end portion of said rod being extended in off-set relation to the rod, a latch member pivoted to the rod adjacent its off-set portion, said latch being operated by gravity to engage and hold the container in a vertical position, said latch engaging the off-set end portion of the rod to retain the container in its vertical position.

1,345,858. POTATO-GRADER. CHARLES JENKINS, Delevan, N. Y. Filed Feb. 21, 1919. Serial No. 278,386. 21 Claims. (Cl. 130—32.)



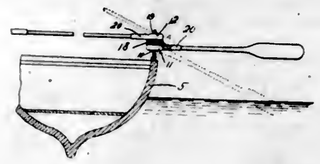
1. A potato grader comprising a support, an inclined reciprocatory grading chute on the support, means for varying the inclination thereof, and elastic means between the chute and support yieldable in the direction of reciprocation of the chute and comprising spring retained slidable pins on the chute and fixed abutments on the support in the path of the pins, said pins engaging with said abutments whatever the adjustment of inclination of the chute.

1,345,859. MANUFACTURE OF PROPELLERS. JOHN JAMES KERR, Lincoln, England. Filed July 8, 1916. Serial No. 108,227. 2 Claims. (Cl. 142—7.)



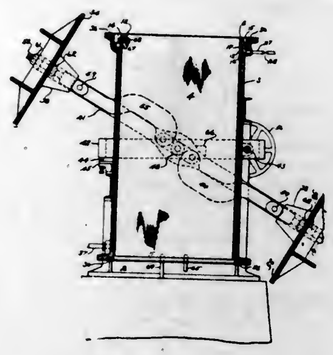
1. In a machine for the purpose set forth, the combination of means for supporting a propeller and a model at their ends in close parallel relation, means for rotatably supporting and holding the propeller and model centrally of the ends thereof against relative lateral movement, said means including a relatively narrow support located centrally of the ends of the propeller and model, annular bearings on said central support extending through the same, rings rotatably mounted in said bearings, and in which the propeller and model are held, driving means for the propeller and model connected therewith near said central support, and trimming means operatively associated with the model and controlled thereby for shaping the propeller to accord with the shape of the model, said trimming means being supported for adjustment longitudinally of and at right angles to the propeller and model.

1,345,860. BOW-FACING OAR. FERDINAND KOHL, Plymouth, Wis. Filed Nov. 19, 1919. Serial No. 339,085. 2 Claims. (Cl. 9—25.)



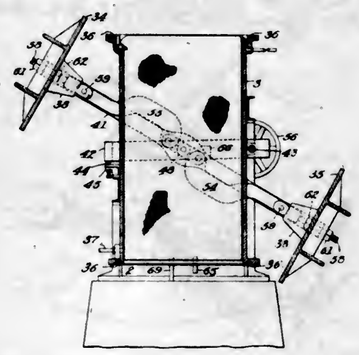
1. A bow facing oar including a standard, a handle member mounted thereon, a blade member mounted on the standard, each member being equipped with a gear upon adjacent faces, a spider secured to the standard between said members and a beveled gear mounted on each spider leg to mesh with the gear on the two members for causing the two members to turn in the same direction.

1,345,861. FILTERING APPARATUS. MICHAEL H. KURYLA, Park City, Utah, assignor to The Merrill Company, San Francisco, Calif., a Corporation of California. Filed June 29, 1916. Serial No. 106,563. 8 Claims. (Cl. 210—13.)



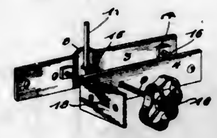
1. In a filtering apparatus comprising a chamber open at its top and at its bottom and filtering elements in said chamber, the combination of closures for the top and bottom of the chamber, means for seating the closures on the chamber, and means for equalizing the pressure of the closures on the chamber.

1,345,862. REMOVABLE CLOSURE. MICHAEL H. KURYLA, Park City, Utah, assignor to The Merrill Company, San Francisco, Calif., a Corporation of California. Original application filed July 29, 1916, Serial No. 106,563. Divided and this application filed Jan. 16, 1917. Serial No. 142,628. 12 Claims. (Cl. 220—1.)



1. A chamber having opposite openings, closures for said openings, an actuator for said closures situated between them, means for drawing said closures toward said actuator, and a movable support for said actuator.

1,345,863. AUTOMOBILE-SIGNAL. WILLIAM A. LEE, Muskogee, Okla. Filed Oct. 2, 1919. Serial No. 327,914. 2 Claims. (Cl. 116—52.)



1. An automobile signal comprising a pair of spaced arms having means at one end for engagement with a stationary support, one of said arms being provided between its ends with a transversely extending seat at its inner side, said arms being also provided with alined openings, one of said openings extending through said seat, a shaft extending rotatably and slidably through said openings, a signal arm carried by said shaft and positioned between said arms and adapted to normally bear in said seat, spring means for shifting said shaft to normally position said signal arm in said seat, and means connecting the free ends of said arms, said means also serving to limit the downward movement of the signal arm, substantially as set forth.

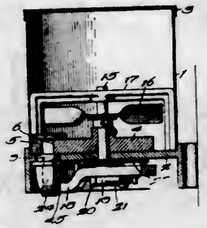
1,345,864. CARRIER FOR AMMUNITION. ALBERT ALEXANDER LETHERN, London, England, assignor, by mesne assignments, to Frank R. Batcheider. Filed May 14, 1918. Serial No. 234,456. 11 Claims. (Cl. 224—15.)

1. A carrier for projectiles, having a discharge outlet in its lower portion, a bottom by which projectiles occupying the carrier are guided to move toward said outlet under the influence of gravity, a retainer pocket for the said outlet constructed and arranged to hold the leading projectile in position to be grasped and removed by hand, and also



in position to hold back the succeeding projectiles, and means for fastening said pocket in closed condition.

1,345,865. DISPENSING-MACHINE. ROBERT H. LITTLE, Chicago, Ill., assignor to U. S. Sanitary Specialties Corporation, Chicago, Ill., a Corporation of Illinois. Filed Apr. 23, 1919. Serial No. 292,131. 6 Claims. (Cl. 221—106.)

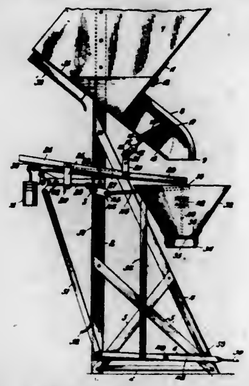


1. A dispensing machine including a container for material that is to be dispensed; a rotatable wheel mounted with one face closely adjacent a wall of the container; a pocket wall portion closely approaching said container wall portion and the peripheral circle of the wheel and formed with a part closely overlying the other face of the wheel; said wheel being formed with a peripheral notch having a comparatively long bottom extending inwardly from the peripheral circle of the wheel and also having a short side at the inner end of the notch bottom; a movable abutment engageable with said long notch bottom and an end of said pocket wall portion to form with said pocket wall portion, said container wall, and the wheel, a space in which a measured quantity of material to be dispensed is trapped, said container wall portion having a discharge opening communicating with said space and located near said abutment through which opening the material is forced when the wheel is turned toward said opening; and a spring for pressing said abutment against said long notch bottom.

1,345,866. BAGGING-MACHINE. LORENS C. LORENSON, Hudson, N. Y., assignor to Clayton H. Petry, Hudson, N. Y. Filed May 24, 1918. Serial No. 236,337. 15 Claims. (Cl. 249—16.)

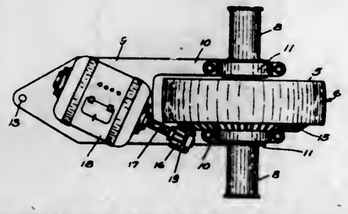
1. In a bagging machine, the combination with a spout and a weighing hopper thereunder having means for the

application of a bag thereto, a gate for the spout in the line of travel of material therethrough and movable to open the spout, connections between the hopper and gate for closing the latter against the weight of material in the spout by the superior weight of the material delivered



by the spout to the hopper, means for holding the gate closed while the bag is being applied to the hopper, and manually operable means located within ready reach of an operator for opening the gate to actuate the hopper and permit the latter to rise.

1,345,867. DRIVING APPARATUS FOR MONORAIL-TRUCKS. ROYAL A. MCCLURE and WILLIAM W. BOULTON, Seattle, Wash., assignors to Universal Elevated Railway Company, Seattle, Wash. Filed Nov. 9, 1917. Serial No. 201,174. 4 Claims. (Cl. 105—118.)



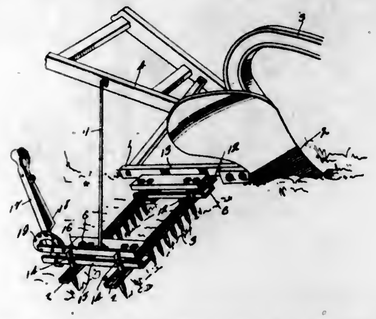
1. The combination with a truck wheel of the class described, of a motor disposed with its center of gravity in the plane of said wheel and its driving shaft at an angle to the plane of said wheel, and means connecting said wheel and said drive shaft for rotating said wheel.

1,345,868. DRAPERY-CLIP. BERNHARD H. MEYER, New Haven, Conn. Filed Mar. 29, 1920. Serial No. 369,665. 1 Claim. (Cl. 156—21.)



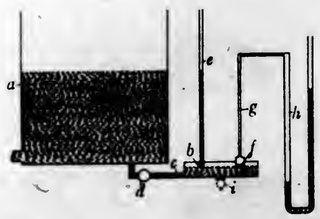
A drapery clip comprising two members hinged together by a pintle, a spring on said pintle the ends of which bear against the inner faces of the members whereby the lower ends are normally forced together, blocks mounted on the lower inner faces of the members, said blocks provided with inwardly projecting pins, and an arm connected with the upper end of each member, said arms reversely bowed and adapted to engage with a curtain-pole.

1,345,869. PLOW ATTACHMENT. JAMES ARCHIE MILLER, Beeville, Tex. Filed Mar. 6, 1920. Serial No. 363,637. 4 Claims. (Cl. 55—103.)



1. An attachment of the character specified, comprising relatively inner and outer longitudinally disposed supporting bars, and a plurality of transversely arranged toothed bars having their end portions mounted in the supporting bars and adapted to have independent or concurrent vertical movement at both ends.

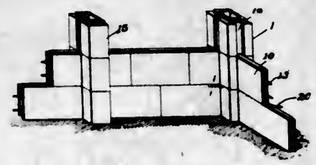
1,345,870. FLUID-PRESSURE-MEASURING INSTRUMENT. ROBERT JOHN NASH and GEORGE HENRY ALEXANDER, Birmingham, England, assignors to The A-N Company Limited, Birmingham, England. Filed Dec. 17, 1918. Serial No. 267,216. 1 Claim. (Cl. 73—54.)



In fluid pressure measuring instruments, the combination comprising a closed displacement chamber in communication with a body of fluid and containing a quantity of entrapped air, the height of the air space above the fluid datum level in the chamber being small relatively to the diameter of the chamber, a fluid gage communicating at one end with the air space in the displacement chamber, and a pipe in communication with the fluid in said chamber, said pipe serving to determine the datum level and also as a passage for air to or from the chamber for restoring such level when required, substantially as described.

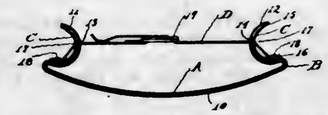
1,345,871. BUILDING CONSTRUCTION. EDWARD NOTTEBOHM, Manila, Philippine Islands. Filed Jan. 22, 1919. Serial No. 272,580. 1 Claim. (Cl. 72—16.)

A wall of the character described, including a series of hollow, vertical sectional posts having alternate tongues and grooves formed to interlock the meeting ends of the sections, and vertical grooves in said posts in the line of the wall, a series of superimposed concrete slabs with interlocking tongues and grooves upon their horizontal meeting edges, and tongues upon their vertical ends to



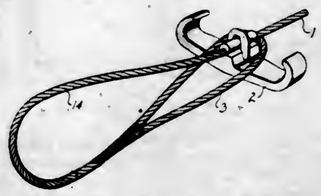
engage the vertical grooves of the posts, and the contiguous slabs, and bonding members by which said slabs and posts are united.

1,345,872. WRIST OR HAND BLOTTER. PAUL ORZEL, New York, N. Y. Filed Mar. 18, 1920. Serial No. 366,854. 8 Claims. (Cl. 120—25.)



1. In a blotter, in combination, a base member provided with reversely curved ends having concave interiors; a blotting member stretched over the under exterior of the base member; retaining clips engageable with the interiors of the curved ends of the base member with the blotting member therebetween; and a clasping member strained between the retaining clips; said retaining clips when in engagement with the curved ends of the base member with the blotting member between the exterior of the clips and the interior of said curved ends providing means for retaining the blotting member operatively in place.

1,345,873. TOWING-CABLE. CONRAD B. OSMUNDSEN, Chicago, Ill. Filed July 21, 1919. Serial No. 312,392. 3 Claims. (Cl. 213—67.)



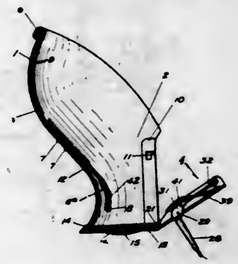
1. A towing device, comprising a cable having an eye formed at one end thereof and a toggle rigidly secured to the running part of said cable, said eye being passed over said toggle to engage the same and form a loop in said cable at one end thereof, said toggle having oppositely extending arms and means on the ends of said arms to retain said eye in position on said toggle.

1,345,874. WATCH-REPAIR TAG. HENRY PAULSON, Chicago, Ill. Filed Jan. 29, 1920. Serial No. 354,795. 1 Claim. (Cl. 40—20.)



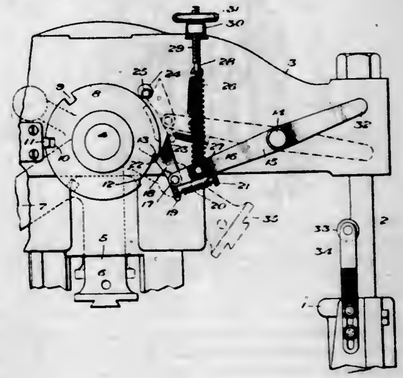
A watch repair tag comprising a body portion of any suitable material, provided with an elliptically slotted hole, placed in the center of the tag, and running parallel to the long side of the tag, adapted to be pulled over the watch hook, and be held in a rigid horizontal position.

1,345,875. SHOE-PROTECTOR. ORLAND WELLSLEY PETERS, Los Angeles, Calif. Filed July 25, 1919. Serial No. 313,325. 2 Claims. (Cl. 36—72.)



1. A shoe protector comprising a casing adapted to fit the sides and back of the heel of a shoe having an outwardly flaring bottom edge, a bottom plate having its edges clamped upwardly and inwardly and adapted to be slipped upon the outwardly flaring bottom edge of the heel casing from the rear, a clamping means hingedly mounted at the front edge of the bottom plate adapted to swing upwardly against the heel under the instep, and means for securing the clamping means to the front edges of the sides of the heel casing.

1,345,876. HEEL-NAILING MACHINE. GEORGE M. PETTENGILL, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed July 30, 1918. Serial No. 247,352. 9 Claims. (Cl. 1—35.)



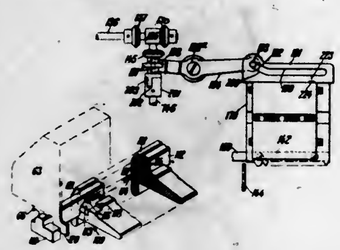
1. In a machine of the class described, a rotatable turret, means for locking said turret in either of a plurality of operative positions, means tending to turn the turret into one of said operative positions when removed therefrom, and automatically acting means for moving said turret to another of its operative positions against the tendency of said first means.

1,345,877. COMBINED TYPEWRITING AND COMPUTING MACHINE. HENRY L. PITMAN, East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Jan. 23, 1918. Serial No. 213,279. 68 Claims. (Cl. 235—59.)

2. The combination of a totalizer comprising computing elements, a locking bar for said computing elements, and

means to increase the range of utility of said locking bar.

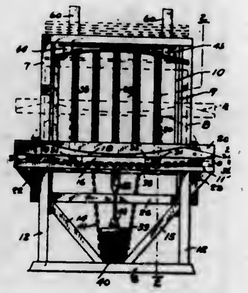
14. The combination of a carriage, a column-computing unit, a cross-computing unit, each unit comprising two elements, namely, a totalizer and a master wheel normally clear thereof, normally-ineffective driving mechanism for the master wheel of said cross-computing unit, and means controlled by said carriage for intermittently rendering said driving mechanism effective by bringing the



master wheel and totalizer into coöperative relation.

26. In a computing machine, the combination of a master wheel, driving mechanism for said master wheel, and means to cause a change in said driving mechanism to enable the master wheel to be reversely rotated, said means comprising a slidable shaft, a single key engaging directly with said shaft, a detent coöperating with said key, and an indicator for said key.

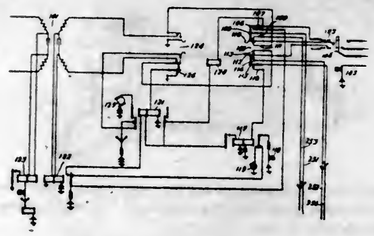
1,345,878. CRATE-PRESS. JOHN H. PLATT, Los Angeles, Calif. Filed May 25, 1918. Serial No. 236,658. 9 Claims. (Cl. 100—57.)



1. In a crate press the combination with a frame of a vertically adjustable box support, a curved cover holder, and means to move said holder to press a cover held thereon in contact with an uncovered crate on said support.

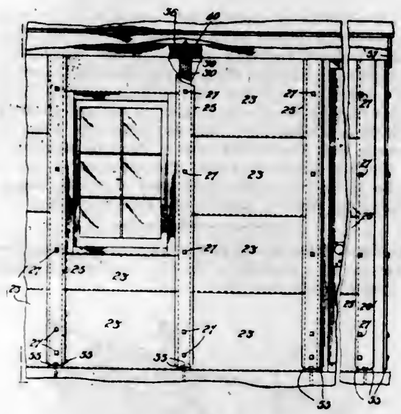
1,345,879. MACHINE-SWITCHING TELEPHONE-EXCHANGE SYSTEM. LIPA POLINKOWSKY, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 9, 1918. Serial No. 221,552. 14 Claims. (Cl. 179—27.)

1. In a telephone exchange system, telephone lines, an operator's position, a connecting circuit at said position, means for extending said lines to said connecting circuit, automatic switches for further extending said lines, a registering and controlling equipment under the control of said operator for controlling said switches, a trunk line leading to said switches, an assignment key individual to said connecting circuit for associating said equipment therewith, and a plug and jack switch for connecting said connecting circuit to said trunk, the insertion of said



plug in the jack serving jointly with the operation of said assignment key to associate the registering equipment with said connecting circuit.

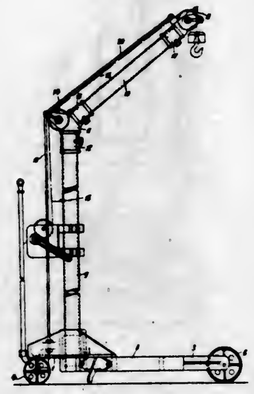
1,345,880. CONCRETE BUILDING CONSTRUCTION. HENRY M. PRIEST, ROBERT H. FORD, ALEXANDER L. GREENABAUM, and CHARLES P. RICHARDSON, Chicago, Ill. Filed June 17, 1918. Serial No. 240,363. 3 Claims. (Cl. 72—1.)



1. A concrete building construction, composed of precast reinforced concrete units, comprising concrete outside corner posts or uprights, interior corner posts and intermediate posts, the sides of all of said posts disposed toward the exterior having their longitudinal edges extended beyond the adjacent sides of the post, superposed reinforced concrete slabs or panels of uniform dimensions having their longitudinal edges formed to provide lapping joints while the ends of the panels are arranged in abutting relation with the adjacent posts so as to have the extended edges of the posts overlap the ends of the panels, the panels being arranged in parallel superposed relation to provide an inner and an outer wall with an air space therebetween, and spacing members secured to and disposed throughout the length of the posts whereby the rows of superposed panels will be maintained in spaced relation.

1,345,881. PORTABLE JIB-CRANE. WALTER H. PURNELL and JOSEPH A. BUTTERWORTH, Loughborough, England, assignors to Herbert Morris, Limited. Filed July 23, 1919. Serial No. 312,659. 2 Claims. (Cl. 212—142.)

1. In a portable jib crane in combination a carriage constituted by three triangularly arranged wheeled units, steel flats constituting arms connecting one of said units with the two remaining units said arms containing between them an uninterrupted open space, an upright tubular post mounted on the said first mentioned unit, a bracket in sleeve engagement with said post, a guide pulley supported by said bracket, a jib carried by said bracket



at an inclination to said post, a bracket having an extension in sleeve engagement with the outer end of said jib, and a guide pulley supported by said last mentioned bracket, as and for the purpose set forth.

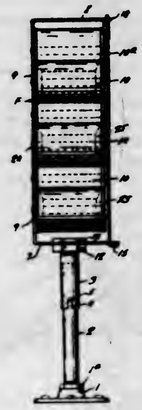
1,345,882. SHEARS. CHARLES L. REPASS, West Pittston, Pa., assignor of one-half to Henry R. Smith, Scranton, Pa. Filed Sept. 12, 1919. Serial No. 323,250. 1 Claim. (Cl. 30—13.)



Shears including opposed pivoted members, a pair of spaced parallel cutting blades forming a part of one of the pivoted members, a thumb hold having a relatively wide supporting member formed integral therewith, the free end of the supporting member terminating in a plane equal to the plane of the ends of the cutting blades, a relatively flat cutting blade of a width equal to the width of the supporting member, secured to the supporting member, said relatively flat blade having an offset outer extremity extending beyond the plane of the ends of the parallel cutting blades to provide a support, said relatively flat blade adapted to operate between the parallel blades.

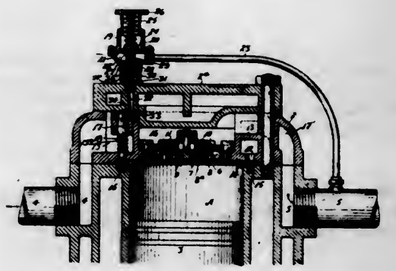
1,345,883. SPOOL-RACK. NATHAN OTTO RICHMAN, Cleveland, Ohio. Filed Aug. 20, 1919. Serial No. 318,683. 7 Claims. (Cl. 242—134.)

1. In a spool rack, a spindle supporting frame, and a base, tubular members secured to the frame and base respectively, said tubular members engaging each other in rotatable relation and retained in adjusted positions



by a projection on one member engaging a recess in the other.

1,345,884. UNLOADER FOR COMPRESSORS OR THE LIKE. EDWARD A. RIX, Oakland, Calif. Filed Feb. 12, 1919. Serial No. 276,544. 10 Claims. (Cl. 230—24.)

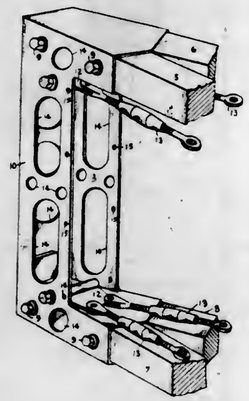


1. In a fluid compressor the combination with an inlet valve of annular ring shaped form, and an exhaust valve, of a discharge pipe communicating with the exhaust valve and a plurality of plungers engageable with the inlet valve actuated by the pressure in the discharge pipe for opening the inlet valve and holding it open the moment a predetermined pressure is obtained in the discharge pipe.

9. In a fluid compressor, the combination with a cylinder, of a piston reciprocally mounted in said cylinder, a cylinder head on the cylinder, an inlet valve of annular ring shaped form mounted in said head, an exhaust valve also mounted in the head, a discharge pipe communicating with the exhaust valve, an annular fluid receiving passage formed in the cylinder head, a plurality of cylinder chambers also formed in the cylinder head and in communication with said annular fluid passage, a piston in each cylinder, a plunger extension on each piston engageable with the inlet valve, a spring surrounding each plunger extension adapted to normally hold the pistons and plungers in elevated position out of contact with the inlet valve, and a pressure actuated valve connected with the discharge pipe and with the annular fluid receiving passage in the cylinder head adapted to automatically admit fluid under pressure from the discharge pipe to depress the pistons and open and hold the inlet valve open the moment a predetermined pressure is obtained in the discharge pipe, said pressure actuated valve also adapted

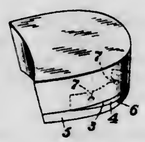
to automatically exhaust the fluid admitted to the annular fluid passage and the piston cylinders to permit the springs to raise the plungers and pistons out of engagement with the inlet valve and to permit the inlet valve to assume its normal function the moment the pressure in the discharge pipe drops below the predetermined pressure.

1,345,885. AEROPLANE. HUGH A. ROBINSON, Keyport, N. J., assignor to Aeromarine Plane & Motor Co., Inc., a Corporation of New York. Filed Aug. 23, 1918. Serial No. 251,071. 3 Claims. (Cl. 244—31.)



1. In a device of the class described, a three sided metallic structure having upper and lower sockets within which may be secured the longerons of an aeroplane and rudder locks at the back thereof within which may be supported a rudder.

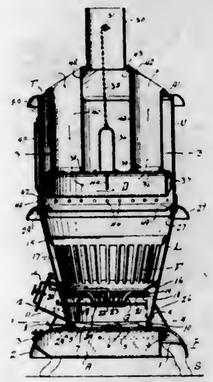
1,345,886. REPAIR PART OR SECTION FOR HEELS. LEO ROSENFELD, New York, N. Y. Filed Aug. 19, 1919. Serial No. 318,437. 1 Claim. (Cl. 36—34.)



As an article of manufacture, a heel repair part adapted for insertion between a worn rubber tread lift and a heel in order to level the worn part, consisting of an elastic rubber wedge, having notches formed in its thinner edge, spaced apart approximately the distance between the nails in the heel with which the part is to be used and arranged to straddle such nails when inserted into the heel.

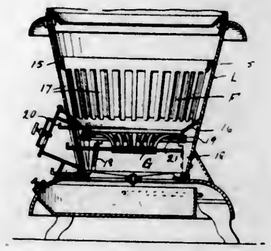
1,345,887. STOVE OR FURNACE. EVERETT W. RYER, Colorado Springs, Colo. Filed Mar. 12, 1919. Serial No. 282,072. 14 Claims. (Cl. 126—70.)

1. A device of the character described comprising a casing having a flue at its top and a fire-pot at the lower portion thereof, a hollow drum suspended within the casing above the fire-pot, a plurality of upstanding pipes carried by and in communication with the drum and loosely extending through the top, said pipes affording the only communication with the interior of the drum, one of said



pipes conveying cold air into the drum, and another pipe discharging hot air from the drum, and means for elevating the drum.

1,345,888. FIREPOT. EVERETT W. RYER, Colorado Springs, Colo. Original application filed Mar. 12, 1919, Serial No. 282,072. Divided and this application filed July 28, 1919. Serial No. 313,708. 2 Claims. (Cl. 126—150.)

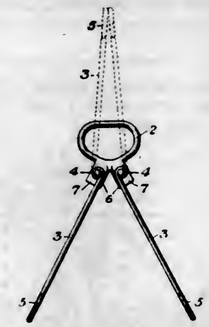


1. A device of the character described comprising a casing, a fire-pot arranged within the lower portion of the casing and supported for oscillating movement about a vertical axis, said fire-pot including circumferentially spaced slats, said slats being substantially V-shaped in cross section with their apices outwardly directed, the apices of the slats contacting with the wall of the casing.

1,345,889. TOOL FOR HANDLING AND MANIPULATING VEHICLE TIRES AND WHEELS. LOUIS R. SCHMERTZ, Jeannette, Pa. Filed Mar. 28, 1919. Serial No. 285,893. 3 Claims. (Cl. 294—26.)

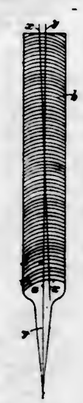
3. A portable hand tool of the character described for lifting circular objects, comprising a handle portion having a gripping opening therethrough, lugs on said handle portion, a pair of legs pivotally secured to said lugs, the axes of said pivots extending at substantially right angles to said gripping opening so that the legs may be swung to inoperative position to overlie said handle portion,

hooked ends on, said legs projecting in the same direction and adapted to extend under the object to be lifted from



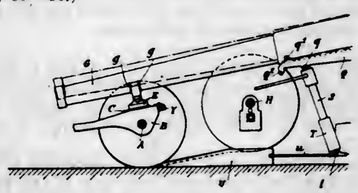
the same side thereof, and stops on said lugs adapted to hold said legs in diverging relation when in operative position, substantially as described.

1,345,890. FILE. CHARLES OTTO SCHNEIDER, Wimbledon, London, England, assignor to The Patent File and Tool Company Limited, London, England. Filed Oct. 14, 1918. Serial No. 258,000. 1 Claim. (Cl. 29—78.)



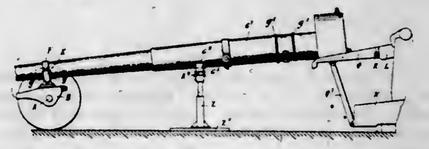
A file having teeth of arcuate form extending across the surface of the file, the generating centers of the arcs of said teeth lying on a line inclined to the axis of said file.

1,345,891. TRANSPORT APPARATUS FOR DEMOUNTING AND REMOUNTING GUN-BARRELS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,486. 13 Claims. (Cl. 89—40.)



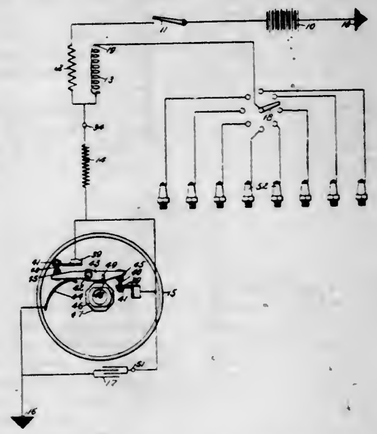
1. In transport apparatus for demounting and remounting gun-barrels, a fore-wheeled axle, a saddle journaled on said axle having a pivot-bolt projecting from the same perpendicular to said axle, a collar adapted to receive the chase of the gun-barrel journaled on said pivot-bolt to permit horizontal angular movement of the gun-barrel relative to the longitudinal axis of said saddle, a rear-wheeled axle movable independently of the fore-wheeled axle to be positioned relative to the gun-barrel, and a cradle on said rear-wheeled axle adapted to receive the breech of the gun-barrel.

1,345,892. TRANSPORT APPARATUS FOR DEMOUNTING AND REMOUNTING GUN-BARRELS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,487. 2 Claims. (Cl. 89—40.)



1. In transport apparatus for demounting and remounting gun-barrels, the combination of independently movable fore-wheeled and rear-wheeled axles placed to receive successively and respectively the chase and breech of the gun-barrel as the latter is slid from its carriage, a pivoted collar forming a seat on the fore-wheeled axle for the chase and permitting angular horizontal movement of the gun-barrel relative to the fore-wheeled axle, a lifting-jack placed beneath the gun-barrel and coacting with the fore-wheeled carriage to support the gun-barrel during the placement of the rear-wheeled axle preliminary to receiving the breech of the gun-barrel subsequently lowered thereon by the lifting-jack, and a cradle pivoted on the lifting-jack to form a seat for the gun-barrel and to permit horizontal angular movement of the gun-barrel relative to the lifting-jack.

1,345,893. HYDROCARBON-MOTOR. HERMAN SCHWARZE, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 22, 1916. Serial No. 138,304. 17 Claims. (Cl. 123—148.)



1. A timer comprising a single movable member having a plurality of contacts other contacts corresponding in num-

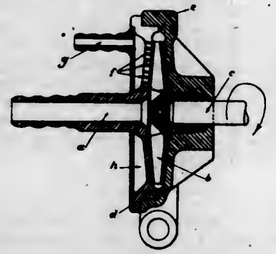
ber with said first mentioned contacts and with which said first mentioned contacts contact, and means for operating said member to thereby simultaneously separate the contacts which it has from said other contacts.

1,345,894. TYPEWRITING-MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Aug. 1, 1919. Serial No. 314,679. 14 Claims. (Cl. 197—108.)



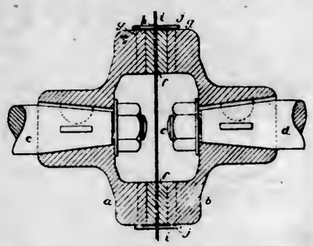
1. In line lock mechanism for typewriting machines, the combination of a carriage actuated slide for controlling the locking means, a spring connected directly to said slide for returning it to normal position, and a carriage rail on which said slide is mounted for sliding movement, said rail having a cavity in which said spring is contained.

1,345,895. CENTRIFUGAL PUMP. LAURENT SEGUIN, Paris, France, assignor to Societe Des Moteurs Gnome Et Rhone, Paris, France. Filed Mar. 29, 1920. Serial No. 369,743. 3 Claims. (Cl. 183—3.)



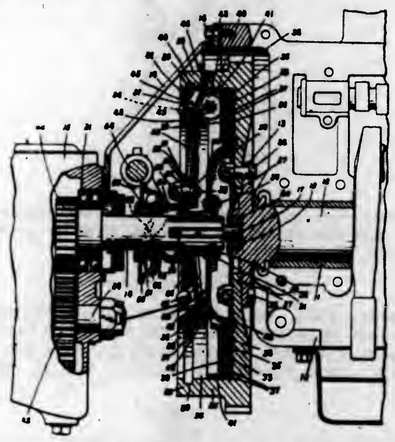
1. A centrifugal pump for liquids liable to contain gaseous bubbles in suspension or liquids reaching temperatures near their point of ebullition, comprising a casing, a rotor rotatably mounted in said casing, and a drain chamber, the casing of the pump being provided with small apertures located at different distances from the axis of the pump and opening into said drain chamber.

1,345,896. FLEXIBLE COUPLING. FREDERICK RICHARD SIMMS, London, England, assignor of one-half to Simms Motor Units Limited, London, England. Filed Mar. 4, 1920. Serial No. 363,216. 7 Claims. (Cl. 64—96.)



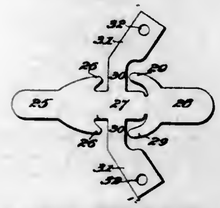
1. A shaft coupling comprising two members secured respectively to the shafts to be connected and each provided with a series of parallel teeth, the teeth of one member being oppositely disposed to the teeth of the other member; an intermediate member interposed between said members and provided on its opposite sides with series of parallel teeth which engage the teeth of the first members, and means for locking the intermediate member in position.

1,345,897. CLUTCH MECHANISM. CHARLES R. SHORT, Detroit, Mich. Filed June 11, 1917. Serial No. 174,169. 18 Claims. (Cl. 192—7.)



1. In a device of the class described, the combination with a driving member, a driven disk and a clamping plate, of means comprising a plurality of radially arranged springs, and a plurality of wedging devices operated one by each of said springs for operatively connecting said member, disk and plate together.

1,345,898. SHUTTLE. PHILIP SPENCER, Millbury, Mass., assignor to J. H. Williams Company, Millbury, Mass., a Corporation of New York. Filed Aug. 5, 1919. Serial No. 315,376. 4 Claims. (Cl. 139—27.)

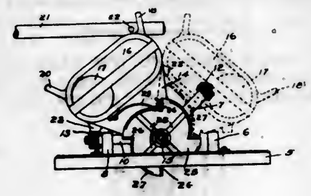


3. A shuttle having, in combination, a body portion and a bobbin holder comprising a bobbin spring and a shield member, the shield member having a top plate, a bottom plate, an inclined portion extended from the top to the bottom plate, and two spacing arms extended rearwardly from the inclined portion formed integrally therewith and adapted to coöperate with the bobbin spring to serve as a spacer, and having provision for securing the shield member to the body portion of the shuttle.

1,345,899. ELECTRICAL SWITCH. HENRY R. STEVENS and ROBERT L. ROCKWELL, Seattle, Wash., assignors to Universal Elevated Railway Company, Seattle, Wash. Filed June 12, 1918. Serial No. 239,675. 6 Claims. (Cl. 200—47.)

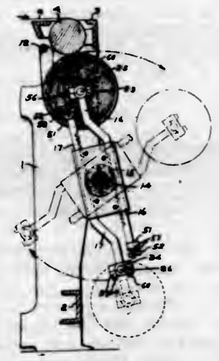
1. A switch of the class described comprising a base, a plurality of switch blades each consisting of two straight rigidly connected sections formed at an angle to each other and pivotally mounted on said base, bars of insulating material connecting the outer ends of said switch blades,

U-shaped terminals mounted on said base for the reception of the ends of said switch blades, a pivotally mounted frame adapted to swing from one side to the other of a vertical plane passing through its pivot point to engage



with and throw said switch, a race formed in the top of said frame, a heavy roller in said race and adapted to roll from one end to the other of said race as said frame is oscillated from side to side, and means for moving said frame.

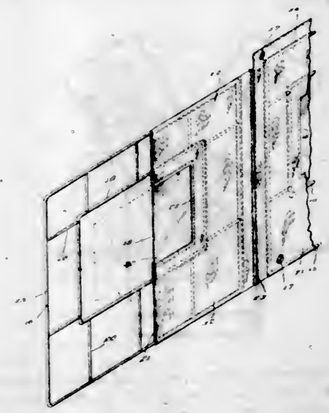
1,345,900. LOOM. MELVIN L. STONE, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 11, 1919. Serial No. 329,968. 17 Claims. (Cl. 139—60.)



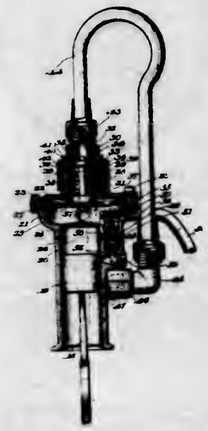
1. In a loom, the combination of a rotary driving member, two sets of rack supports, each set of which is adapted to support a cloth roll, a casing in which the rack supports are mounted, means acting upon the casing and tending to turn it to carry one set of rack supports into and the other set of rack supports from operative relation with the driving member, and a catch for restraining the operation of said means until the cloth roll that is in operative relation to the rotary driving member has a predetermined amount of cloth wound thereon.

1,345,901. AUTOMOBILE PANEL-CURTAIN. DELBERT G. TOWNSEND, Indianapolis, Ind., assignor to Hartman-Townsend Co., Indianapolis, Ind., a Corporation of Indiana. Filed Mar. 13, 1919. Serial No. 282,302. 6 Claims. (Cl. 296—138.)

5. An automobile side curtain, comprising an outer frame approximating in shape the outer edge of the curtain, an inner frame spaced from the outer frame and approximating in shape a window opening with which said curtain is provided, cross-connectors between said inner and outer frames to hold them in relatively fixed positions, a fabric covering overlying said frames and cross-connectors on both sides thereof and cut away to form the window opening, and a sheet of transparent material fixed in said inner frame.

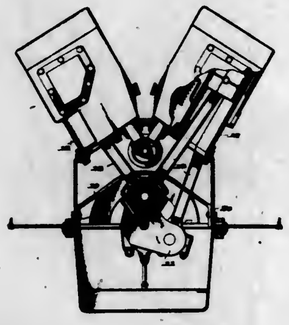


1,345,902. PUMP FOR MOTOR-VEHICLES. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich, a Corporation of Michigan. Filed Sept. 7, 1917. Serial No. 190,243. 7 Claims. (Cl. 230—24.)



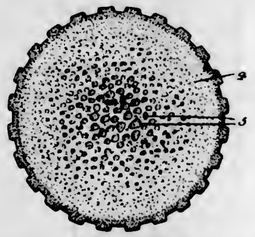
1. In combination, a cylinder, a piston slidably mounted therein, a partition above the piston dividing the cylinder into a piston chamber and a discharge chamber, an inlet opening and a discharge opening formed through the side of the cylinder, the discharge opening being nearer the discharge end of the cylinder than the inlet opening, a discharge conduit connecting the discharge opening and the discharge chamber, an inlet valve controlling the admission of fluid to said inlet, and pressure responsive means associated with said discharge chamber for governing said valve.

1,345,903. HYDROCARBON-MOTOR. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 10, 1919. Serial No. 296,275. 6 Claims. (Cl. 184—13.)



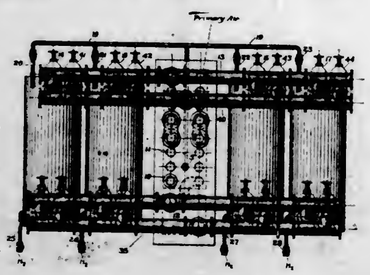
2. In combination with a series of engine cylinders, a crank shaft, connecting rods carried by said shaft, and a series of laterally extended baffle plates mounted on the side walls of the crank case above and adjacent to the crank cheeks and spaced from one another and overlapping the bearings of the connecting rods.

1,345,904. SPONGE-RUBBER ARTICLE AND METHOD OF MAKING THE SAME. JAMES BENJAMIN WISHART, Trenton, N. J. Filed Aug. 5, 1919. Serial No. 315,468. 5 Claims. (Cl. 18—53.)



1. A sponge rubber article having cells therein, the cells being largest at the central portion of the article and decreasing in size toward the surface of the article.

1,345,905. PROCESS OF AND APPARATUS FOR PRODUCING HYDROGEN. LYLE STOCKTON ABBOTT, River Edge, N. J., assignor to The Improved Equipment Company, New York, N. Y., a Corporation of Colorado. Filed Nov. 6, 1915. Serial No. 60,011. 10 Claims. (Cl. 48—118.2.)



10. A continuous run plant for the manufacture of hydrogen which is made by a process involving distinct heating, steaming and reducing steps; a plurality of apparatuses, each apparatus capable of performing the whole process, and the number of such apparatus constituting the plant being so correlated to the time of operation of each such step that by simultaneous operation of the different steps in the different apparatus hydrogen may be continuously produced from the plant as a whole.

1,345,906. HOT-WATER AND ICE BANDAGE. WILLIAM F. AUGUSTINE, Chicago, Ill. Filed Sept. 23, 1918. Serial No. 255,253. 1 Claim. (Cl. 128—258.)



The combination with a flexible bag, of an apertured belt rigidly secured thereto for mounting the bag, a neck formed on said bag projecting through said belt, an adjustable funnel member on said neck to facilitate filling of the bag, and means for closing said neck when the bag is filled.

1,345,907. MACHINE FOR MAKING ROUND BELTING. ALPHEUS E. BARKER, Philadelphia, Pa., assignor to Alexander Brothers, Philadelphia, Pa., a Corporation of New Jersey. Filed Jan. 16, 1918. Serial No. 212,030. 15 Claims. (Cl. 28—21.)

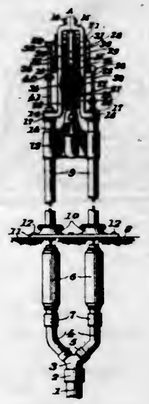


1. A machine for making round belting including a forming mechanism adapted, during operation, to properly shape a belting from a supply of material passed therethrough, means for effecting a relative movement between said forming mechanism and the shaped belting, means to draw said material through said forming mechanism and means for varying the relative rates of speed at which said last two mentioned means operate.

1,345,908. CASTER-SOCKET. CHARLES S. BARNARD, Bridgeport, Conn., assignor to The Bassick Co., of Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 14, 1919. Serial No. 317,401. 4 Claims. (Cl. 16—73.)

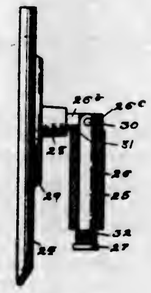
3. In a socket for top bearing casters, a sheet metal body having a rounded top forming a ball chamber, and a ball in the chamber, the socket having cut-out side portions below the chamber and having integral ears which are bent inwardly from the cut-out portions and engage beneath the ball.

1,345,909. OPERATING MECHANISM FOR PUMPS. LAWRENCE BRENNAN, Red Deer, Alberta, Canada. Filed Nov. 7, 1918. Serial No. 261,465. 4 Claims. (Cl. 74—54.)



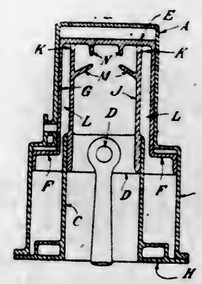
1. The combination of two reciprocatory driven members, and means for driving said members concurrently in opposite directions embodying a pair of main driving gears, a shaft on which both of said gears are journaled for free turning movement, crank shaft sections in axial alinement with each other and parallel to said main gear shaft, pinions fast on said crank shaft sections meshing with said main driving gears, crank operated connections between said crank shaft sections and said reciprocatory driven members, bevel gear faces on the inner sides of said main driving gears, a spider on the main gear shaft between the latter, and pinions journaled on said spider and meshing with said bevel gear faces.

1,345,910. WALL-BRACKET. WALLACE A. COZART, Oklahoma, Okla. Filed June 24, 1919. Serial No. 306,427. 2 Claims. (Cl. 248—1.)



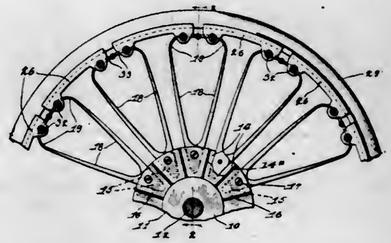
1. In a device of the character described, a table having a depending spindle, a supporting arm through which the spindle revoluibly passes, the spindle being movable vertically in the arm and being pivotally jointed near its upper end, and yieldable means acting to draw the lower portion of the spindle downward in the arm.

1,345,911. INTERNAL-COMBUSTION ENGINE. WILLIAM RUSSELL CUMMINS, Glasgow, Scotland. Filed Nov. 20, 1918. Serial No. 263,299. 22 Claims. (Cl. 123—171.)



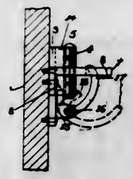
1. A two stroke cycle internal combustion engine of the type defined, somprising an auxiliary cylinder, a power piston, a cylindrical cross-head guide, an annular piston in said auxiliary cylinder, a tubular sleeve connecting said annular piston and power piston and having in combination a circulation chamber contained between the walls of the auxiliary cylinder and the cylindrical guide for the crosshead closed at its outer end, a hollow trunk connecting the cross head with the power piston, ports extending through the walls of the trunk in the region about the outer face of the power piston, deflectors within the hollow interior of the trunk, and a passage extending between the walls of the tubular sleeve and the trunk, for the purposes set forth.

1,345,912. RESILIENT WHEEL. MATTHIAS EDLING and WILLIAM FALK, Iron River, Mich. Filed Feb. 17, 1920. Serial No. 359,236. 1 Claim. (Cl. 152—29.)



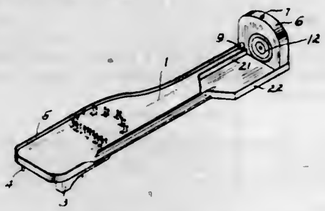
In a wheel of the class described, the combination with a hub, of a series of spokes mounted at their inner ends on said hub and extended in substantially radial lines therefrom with their faces located in planes at right angles to the faces of the wheel, each spoke comprising a pair of outwardly tapered single spring members having their outer portions curved toward each other and provided with transverse openings, a sectional felly mounted on the outer ends of said members, each section of said felly having transverse openings near each of its ends, hinges uniting the ends of the felly sections, each of said hinges comprising a pair of plates hinged together at their meeting edges and having in their opposite edges transverse and spaced apart openings to receive therebetween the apertured portions of the spring members of the spokes, bolts extended through the openings of the felly sections, the openings of the hinges and the openings of said spring members, one of the members of each spoke being thus connected at its outer end to one of the felly sections and the other member thereof similarly connected at its outer end to the felly section adjacent the first named section, and a tire mounted on the felly sections.

1,345,913. LATCH. ERNEST S. EKSTROM, Rosholt, S. D. Filed Aug. 21, 1918. Serial No. 250,801. 1 Claim. (Cl. 292—336.)



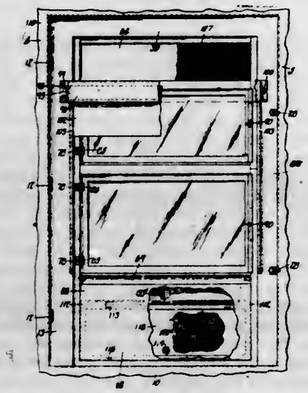
In a latch, an angle piece having one end secured to a support and its free end perforated, ears formed upon the non-perforated end of said angle piece, a bolt fulcrumed to said ears and having a long and a short end, the long end of said bolt being adapted for engagement with the perforated end of said angle piece, and a swinging hasp adapted for releasable engagement with the free end of said angle piece, said hasp engaging with the long end of said bolt while moving in one direction and engaging with the short end of said bolt while moving in the opposite direction.

1,345,914. GAME DEVICE. WILLIAM H. EMMERT, Chicago, Ill. Filed July 15, 1919. Serial No. 310,878. 6 Claims. (Cl. 46—62.)



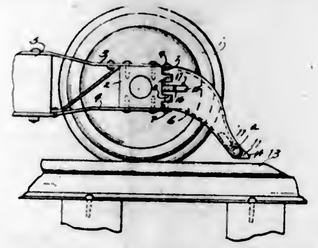
1. A game device comprising a board, a series of ball engaging devices thereon, and a magazine for holding a series of balls, said magazine comprising two offset passages, a connecting passage having a ridge therein adapted normally to prevent the balls in the first passage passing into the second passage, and means for moving a ball through said connecting passage when desired.

1,345,915. WINDOW. GEORGE A. FAIR, Detroit, Mich. Filed Apr. 10, 1916. Serial No. 90,173. 1 Claim. (Cl. 20—48.)



A window construction comprising a frame, a vertically slidable sash supported thereby, an outer glazed casement mounted on said sash and swingable inwardly in respect thereto about a vertical axis, and an inner glazed casement mounted on the outer glazed casement and swingable inwardly in respect thereto about a vertical axis, whereby an air space is formed between the glazings when the casements are closed and whereby the glazing may be presented in desirable position for cleaning.

1,345,916. WHEEL-GUARD. PETER FEIDEN, Jr., St. Joseph, Mo. Filed Aug. 21, 1918. Serial No. 250,800. 2 Claims. (Cl. 293—58.)



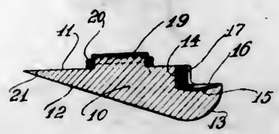
1. In a wheel guard for railway trucks, a guard frame hinged to the journal box, said guard frame extending forward, inward and downward and in advance of the wheels, means carried by said guard frame for frictional engagement with said journal box to prevent lateral movement of said guard frame, and a shoe pivotally secured to the forward end of said guard frame.

1,345,917. TROUSERS-SUPPORT. FRANK E. FITZGERALD, Watertown, N. Y. Filed July 24, 1919. Serial No. 313,051. 1 Claim. (Cl. 241—9.)



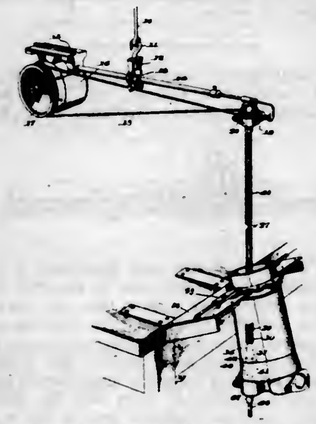
In a support, the combination with a pair of trousers having a band and having right and left hip seams, of rings detachably mounted on said band forwardly of said hip seams, a flexible strap having a buckle at one end disposed near the right hip seam, the opposite end loosely engaging the ring at the left side and folded upon itself and secured to the trousers rearwardly of the left hip seam, a second strap loosely engaging the ring at the right side and folded upon itself and secured to the trousers rearwardly of the adjacent seam, the free end of the second strap being perforated and inserted through the buckle adapted to draw the four quarters of the trousers toward the corresponding hip seams.

1,345,918. MANICURING DEVICE. WILLIAM FOGGIE, Brooklyn, N. Y. Filed Mar. 24, 1920. Serial No. 368,378. 6 Claims. (Cl. 132—36.)



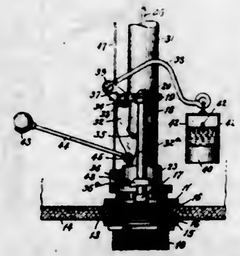
1. An article of manufacture comprising a generally wedge-shaped body having a substantially straight upper face and a curved lower face, one of its ends terminating in a sharp point, the other, broadened end being semi-spherically curved, a depression provided at its broadened upper portion adapted to receive the tip of a finger, a semi-circular step forming an upright wall of said depression, a nail file attached to said wall, a leather pad covering the depressed finger receiving portion, and a nail polishing pad provided at the upper face of the body in such a way as to leave free its pointed end.

1,345,919. GRINDING-MACHINE. CHARLES GABELMAN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 8, 1919. Serial No. 270,241. 14 Claims. (Cl. 51—4.)



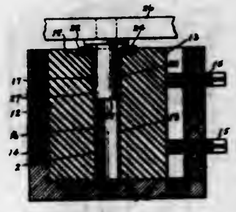
1. In valve seat grinding means, an operating member, a support for the operating member and a pilot member for centering said operating member with respect to the valve seat having means slidably fitting said operating member and the valve stem guide.

1,345,920. FLUSH-VALVE. EDWARD GLENNON, Brooklyn, N. Y. Filed Jan. 29, 1919. Serial No. 273,731. 1 Claim. (Cl. 4—5.)



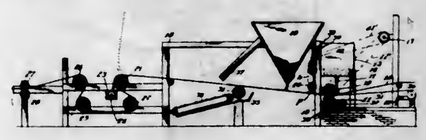
The combination of a tank for containing a supply of water and having an outlet, upright guide rods contiguous to said outlet, a cross-bar extending between said rods at their upper ends, a valve controlling said outlet, means for raising said valve to an open position, lugs on said valve coöperating with said guide rods to guide said valve in its movements, a projection on one of said lugs, a locking member pivotally connected with said cross-bar and arranged to engage said projection to lock said valve in its open position and a hollow receptacle containing water and directly connected with said locking member, said receptacle normally dominating said locking member whereby the latter is moved to an inoperative position to release said projection and said receptacle being submerged in said supply of water and being rendered inactive thereby against said locking member whereby the latter swings back to an operative position in the path of said projection.

1,345,921. DIE FOR MAKING VALVE-CASINGS FOR WIND-MUSICAL-INSTRUMENT VALVES. EDWARD J. GULICK, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a Corporation of Indiana. Filed Oct. 28, 1918. Serial No. 260,010. 4 Claims. (Cl. 76—90.)



1. A device for shaping a one piece wind instrument valve casing comprising a die member having a bore within which the valve casing is adapted to be confined during the shaping operation, said die being provided also with an enlarged bore section into which the metal of the valve casing may be pressed; a screw thread forming die encompassing a portion of the valve casing; and an arbor member adapted to forcibly engage the inner wall of the valve casing for expanding and forcing the metal thereof into the enlarged bore section of the die and into the interstices of the threads of said screw thread forming die.

1,345,922. METHOD FOR PRODUCING ROOFING MATERIAL. SOLOMON H. GOLDBERG, Chicago, Ill., assignor to The West Coast Roofing and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 26, 1912, Serial No. 738,612. Renewed Dec. 2, 1919. Serial No. 342,014. 6 Claims. (Cl. 154—2.)



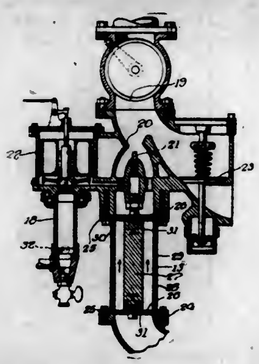
1. The method of coating a flexible roofing surface with a granular coating material arranged in designs, which consists in applying bituminous adhesive substance to said surface, covering a portion of said surface with a relatively light pattern strip, and applying the granular coating material over said surface not covered by the pattern.

3. The method of design surfacing a length of roofing material, which consists in causing the roofing length to travel substantially horizontally, applying adhesive substance to the top surface of the roofing length while the latter is traveling, feeding a pattern length to said adhesive surface, applying surfacing material to the roofing length as it is covered by the pattern length, then deflecting the roofing length so that the loose surfacing material on the pattern covered areas may fall therefrom, to leave only the adhesive surfaces covered with surfacing material and then exerting pressure to intimately associate the surfacing material with the roofing length.

1,345,923. HEATER FOR COOLING SYSTEMS. RIDSDALE ELLIS, Oak Park, Ill., assignor to Paul Carpenter, Glenview, Ill. Filed Jan. 25, 1917, Serial No. 144,424. Renewed Oct. 31, 1919. Serial No. 334,883. 3 Claims. (Cl. 123—174.)

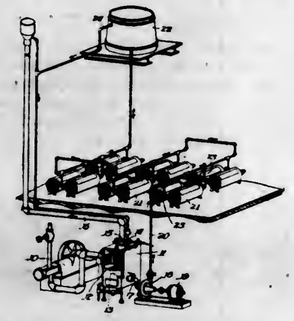
1. In a water-cooled internal combustion engine the combination of a water cooling system, a carbureter, means

for heating the water after the engine has stopped running and means for heating the air admitted to the carbureter



to aid the vaporization and reduce the condensation of liquid fuel on starting the engine.

1,345,924. METHOD OF AND APPARATUS FOR SUPPLYING HEATED LIQUIDS. WILLIAM R. HAGER, Chicago, Ill., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1917. Serial No. 150,288. 6 Claims. (Cl. 137—78.)



1. Apparatus for heating and circulating heated water, comprising in combination, a heater adapted to contain a body of heated water, an elevated storage tank adapted to contain another body of water, a main connecting the two bodies, a branch from said main for withdrawing water from either of said bodies, a tank overflow pipe communicating with said heater, and means for causing circulation of said water, substantially as described.

2. Apparatus of the character described, comprising in combination, a container for heating and storing a body of water, an elevated container for storing a second body of water, a conduit connecting said containers, branches from said conduit for withdrawing water from either or both said containers, a pump for constantly moving water toward said elevated container, and a tank overflow pipe for returning water to said heater, substantially as described.

3. In combination, a plurality of means adapted to simultaneously require a supply of heated water, a conduit connected to said means, a hot water container at each end of said conduit, both of which containers are adapted to supply water to said means, a return pipe between said containers, and means for effecting constant enforced circulation of the water, substantially as described.

4. The method of heating and maintaining a supply of heated water for washing machines and the like, which consists in maintaining two separate bodies of heated water, one of said bodies being elevated above the washing machines, causing the water to flow from either of said bodies to said washing machines, diverting the water in its passage to such machines as desired, permitting the excess of water in said elevated tank to return to the other body, maintaining a fixed water level in said elevated tank, and heating the water.

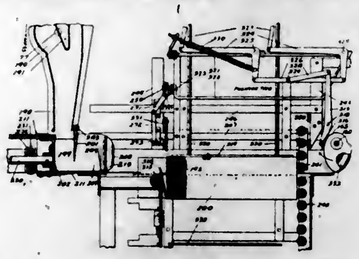
5. Apparatus for heating and circulating heated water for use in washing machines and the like, in combination, a heater adapted to contain a body of heated water, an elevated storage tank adapted to contain another body of water, a single main connecting the two bodies, a plurality of washing machines, branches from said main to said machines, connections in said main to permit withdrawal of water from either body for use in the machines, a tank overflow pipe communicating with said heater, and means for circulating the water.

1,345,925. CONCRETE-ROAD-BUILDING MACHINE. WILLIAM DEANE HAM, Chicago, Ill. Filed Sept. 28, 1916. Serial No. 122,611. 6 Claims. (Cl. 94—41.)



1. In a machine of the class described, a concrete mixer, a frame on which the same is mounted, a power plant, means transmitting a drive from the power plant to said mixer and permitting said drive to be disconnected, a windlass on the frame, a cable attached thereon, adapted to be attached to a fixed point to move said frame when the windlass is driven by the power plant, means admitting a predetermined quantity of water into the mixer with each charge of material admitted thereto, and a housing for the power plant pivoted on said frame and affording a loading platform for discharge of material into the mixer.

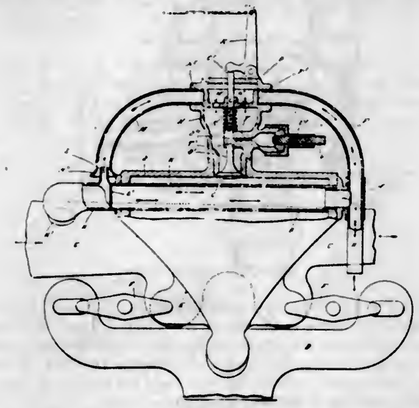
1,345,926. CARTON-PACKING MECHANISM. ARTHUR W. HARRIS, Sleepy Eye, Minn. Filed Jan. 17, 1919. Serial No. 271,636. 44 Claims. (Cl. 226—14.)



1. The combination, with a driving shaft, of mechanism for flattening and packing a flexible article, a driving mechanism connecting said mechanism with said shaft, mechanism for placing an empty carton in position to receive the articles and for discharging the filled carton, a driving mechanism connecting said carton placing mechanism with said shaft, and means for controlling the time and sequence of operation of said mechanisms for regulating the number of articles packed.

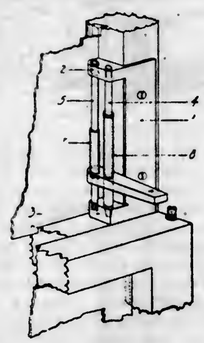
1,345,927. INTERNAL-COMBUSTION ENGINE. WALTER HENRY HAYES, London, England. Filed Jan. 27, 1919. Serial No. 273,271. 10 Claims. (Cl. 123—119.)

1. A vaporizer for internal combustion engines working with paraffin or like liquid fuel, comprising the combination of means for mixing exhaust gases from the engine with the air and fuel, a vaporizing chamber, a pipe passing transversely through said vaporizing chamber and conveying exhaust gases from the engine whereby said vaporizing chamber is heated, a valve for controlling the admission of said mixture of exhaust gases, air and fuel to



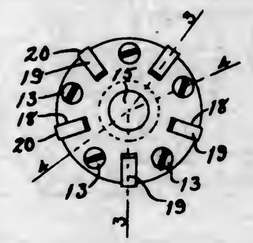
said vaporizing chamber, an induction pipe of the engine, and means for connecting said vaporizing chamber with said induction pipe so as to conduct the vaporized mixture thereto.

1,345,928. WINDOW-SASH LOCK. OLIVER HOLDSWORTH, Oakland, Calif. Filed Jan. 16, 1920. Serial No. 351,904. 1 Claim. (Cl. 292—63.)



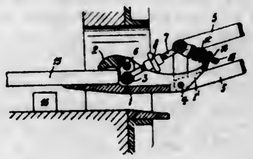
A window sash lock of the character described, in combination with a pair of vertical sliding sashes comprising a plate, adapted to be attached to the stile of the upper sash, said plate having upper and lower brackets adapted to and carrying back and front guide rods, front and back tubes slidably mounted on said guide rods, said upper bracket having an aperture and said lower bracket having a pocket for the reception of the said front and back tubes, the said tubes operating in conjunction with a projecting and retaractable slide bar which is attached to the lower end of said back tube and provided with an opening for engagement with said front tube; said front tube being pointed at its lower end and provided with a rim at its upper end, is slidably moutned through an opening in said slide bar, the lower pointed end being adapted to drop into said pocket in the lower of said brackets, holding the said slide bar in a locked and operating position overlapping the top rail of the lower sash, whereby upon the movement of either of the sashes, said slide bar carrying the said front tube by its top rim is forced upward under and is stopped by said upper bracket, thereby limiting the relative movement of the sashes.

1,345,929. ADJUSTABLE REAMER. WILLIAM B. JOHNSON, Elkhart, Ind., assignor to Foster-Johnson Reamer Company, a Corporation of Indiana. Filed Sept. 19, 1917. Serial No. 192,076. 3 Claims. (Cl. 77—76.)



1. In a device of the character described, a holder provided with a driver spindle chamber and a plurality of longitudinal blade slots, said slots being in communication with said spindle chamber; blades arranged in said slots and adapted for radial movement, each of said blades being provided with a plurality of seats; a driver spindle movably arranged in said spindle chamber and provided with a plurality of cam members, said cam members being adapted to engage said blade seats when the spindle is longitudinally actuated; a spring pressed collar slidably mounted upon said holder and adapted to inwardly actuate said blades; and means for imparting a longituinal movement to said spindle, whereby said blades are outwardly and radially actuated.

1,345,930. GRIP FOR HANDLING SLABS, BARS, BILLETS, OR OTHER MATERIAL. ARTHUR WAKEFIELD JONES, Stepps, JAMES BRYDEN, Cartcosh, and ARCHIBALD JOHN HOLME MOWBRAY, Stirling, Scotland. Filed Sept. 18, 1919. Serial No. 324,619. 2 Claims. (Cl. 294—106.)

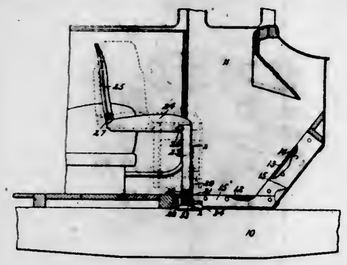


1. A grip for handling slabs and other articles comprising, in combination, a jib, a lower jaw and an upper jaw, the lower jaw pivoted to said jib, and the upper jaw constituted by a bell-crank lever pivoted to said lower jaw, a link connecting said lever to said jib at a point remote from the pivot of said lower jaw, and means normally maintaining said jaws in open position, and adapted to be overcome by pressure of the load acting downwardly on said lower jaw.

1,345,931. MOTOR-VEHICLE. FREDERICK KIEHLER, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 16, 1916. Serial No. 137,294. 10 Claims. (Cl. 296—65.)

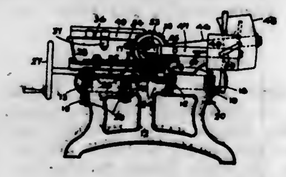
1. In a device of the class described and in combination with a vehicle body, two bosses spaced apart from one another and supported from said body; a transversely extending base member pivotally supported in said bosses and capable of oscillating movement therein; means for limiting the extent of movement of said transverse base in one direction; a vertically extending trunnion carried by said base; a frame having a bottom member supported by and rotatable about said trunnion; a chair seat car-

ried by said frame; cooperating cam members upon said base and the bottom member of said frame and whereby



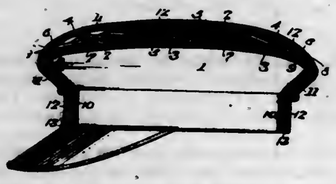
said base and frame are maintained in definite relation relative to one another; and a spring acting to hold said members in engagement with one another.

1,345,932. MOLD FOR PLASTIC AND SIMILAR SUBSTANCES. ROBERT HUTCHISON KIRK, Newcastle-upon-Tyne, England. Filed Jan. 24, 1920. Serial No. 353,680. 3 Claims. (Cl. 25—41.)



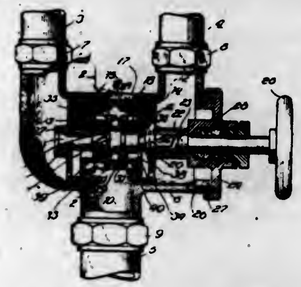
3. A molding machine comprising end frames, crossbars between said end frames, adjustable supports carried thereby, a central shaft between said end frames, a mold thereon having sloping sides and ends, detachable tapered side linings, detachable tapered end linings which lock said side linings in position, a pallet, pivoted catches which lock both said end linings and said pallet in postion, worm gearing for rotating said shaft to invert and return said mold, and weighted arms at each end of said shaft for balancing the mold, one of said arms being adapted to be swung to either side of said shaft to compensate for the difference in the weight of the mold when filled and when empty.

1,345,933. HEAD-GUARD ATTACHMENT FOR CAPS. GEORGE B. KNIGHT, Camden, N. J. Filed Aug. 22, 1919. Serial No. 319,064. 7 Claims. (Cl. 2—106.)



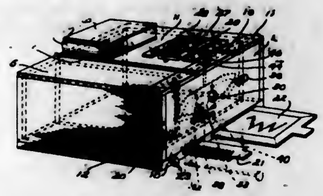
5. A head guard for a cap consisting of a pad of mesh or open-like structure of relatively rigid material, a rim therefor, a mat of pliable material on which said pad is imposed, a sack adapted to contain said mat and pad and to conform to the crown of a cap to which it is secured, and a cover for said guard attachable to the cap.

1,345,934. MIXING-FAUCET. WALTER F. KNOX, Port Huron, Mich. Filed Apr. 19, 1917, Serial No. 163,118. Renewed Apr. 5, 1920. Serial No. 371,481. 10 Claims. (Cl. 251—106.)



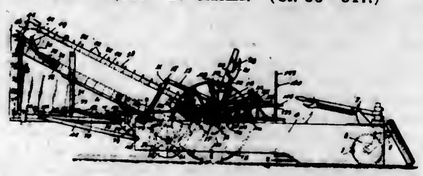
1. In a device of the class described, a casing, a pair of inlets for fluids to be mixed, an outlet, a rotary element intermediate the respective inlets and the outlet and driven by the flow of fluid adapted to accelerate the flow of the more slowly moving fluid and to retard the flow of the more rapidly moving fluid.

1,345,935. CIGAR AND CIGARETTE BOX. JOHN KOSTKA, Cleveland, Ohio. Filed Sept. 5, 1919. Serial No. 321,736. 1 Claim. (Cl. 206—38.)



In a container of the character described having a plurality of compartments adapted for the reception of various articles of personal usage, a pair of levers pivotally connected at one end, oppositely disposed knives on said levers in one of said compartments, a stop pin, a pivoted actuating lever adapted to rest with its inner, lower end on said stop pin, a spring for drawing the opposite end of said lever into normal operating position, a cam-shaped terminal on one of said levers, a spring for connecting said cam terminal and said actuating lever, a plunger contacting with its inner end with the upper edge of one of said pivoted levers, and an operating knob on said plunger to operate said knives.

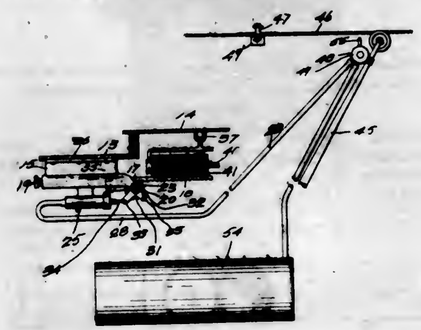
1,345,936. HARVESTER FOR BEANS AND THE LIKE. JOHN LECK, Santa Ana, Calif. Filed Jan. 23, 1919. Serial No. 272,617. 28 Claims. (Cl. 56—347.)



26. A harvester for beans and the like comprising a table formed of relatively movable sections, means to pick up the vines from the field and discharge them upon the table, a rotating member, a member having a hook, means operatively connecting the last named member with the sections to move said sections, means to move the member

having the hook into different positions to cause the hook to move into and out of the path of travel of the crank, and means to limit the downward movement of the member having the hook when said hook is engaged by the rotating member so as to disengage the hook from said rotating member.

1,345,937. STOP-INDICATOR. RICHARD LEE and CHARLES A. HIATT, St. Louis, Mo., assignors of one-half to Claud D. Hall, St. Louis, Mo. Filed Jan. 2, 1920. Serial No. 348,734. 3 Claims. (Cl. 40—45.)



1. A stop indicator comprising a removable support adapted to be attached to a coach, a plurality of indicating signs pivotally carried by said support, a compressed air tank, a rack and pinion mechanism for supporting the indicating signs in a horizontal position and releasing the same one at a time, a ratchet mechanism for actuating the rack and pinion mechanism intermittently, a valve mechanism connected to the air tank and the ratchet mechanism, and means for operating the rack and pinion mechanism at predetermined intervals.

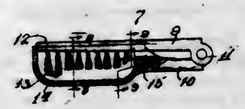
1,345,938. THERMALLY-CONTROLLED FLOAT. SAMUEL LIPPERT, Cleveland, Ohio. Filed June 29, 1916. Serial No. 106,574. 3 Claims. (Cl. 236—53.)



1. A device for the purpose set forth, comprising a float valve, an expansion tube extending therethrough and secured at the upper end to said float, the lower end of said tube being slidable in the wall of said float, and an air valve in said tube controlling the passage of air through said tube, and connected to the lower end of said tube, whereby when said tube expands and contracts said valve is alternately closed and opened.

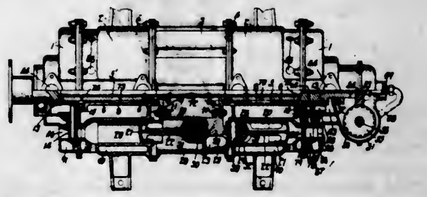
1,345,939. FOLDING TOOTHBRUSH. CONVEASE W. LLOYD, Chicago, Ill., assignor to The Sani-Fold Company of California, a Corporation of California. Filed Aug. 3, 1916. Serial No. 112,977. 1 Claim. (Cl. 15—39.)

In a folding tooth brush, handle sections hingedly connected to one another, a brush on one of said sections, a container on the other section adapted to receive the brush folded thereinto with the bristles of the brush concealed and spaced from the walls of the container at all points, said container handle section having a groove therein adapted when the sections are folded to receive the



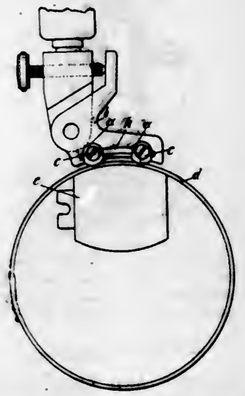
brush section intermediate its length to insure centering of said brush when folded into said container, said brush and container being so constructed as to afford a continuous opening around the brush at the upper end of the container when the brush is folded thereinto.

1,345,940. INTERNAL-COMBUSTION ENGINE. WILLIAM E. LOONEY, Detroit, Mich. Filed Aug. 10, 1917. Serial No. 185,432. 13 Claims. (Cl. 123—58.)



1. An internal combustion engine comprising a rotatable engine shaft, a wave-like cam rigid and co-axial therewith, a plurality of cylinders arranged parallel with the engine shaft, said cylinders forming combustion chambers, pistons for the cylinders, rollers carried by the piston and engaging the cam, a head common to the cylinders, a valve secured to the shaft and interposed between the head and the cylinders, and an annular shim fixed to the cylinders and interposed between the latter and the valve.

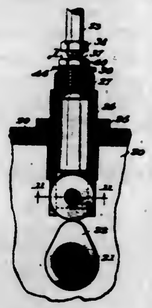
1,345,941. LEATHER-PARING MACHINE. JOHANNES LOOSE, Stuttgart-Cannstatt, Germany, assignor to The Firm of Fortuna-Werke, Spezialmaschinenfabrik, G. M. B. H., Stuttgart-Cannstatt, Germany. Filed Mar. 27, 1916, Serial No. 87,074. Renewed Mar. 17, 1920. Serial No. 366,689. 3 Claims. (Cl. 69—9.5.)



1. In a machine for paring leather and like material, in combination, a presser foot, and associated with said foot at least two pressure pieces adjustable in such manner as to vary the distance between said pressure pieces.

3. In a machine for paring leather and like material, in combination, a presser foot and a plurality of detachable pressure pieces associated with said foot, said pressure pieces being adjustable substantially in the direction of extension of the pressure edge of the presser foot.

1,345,942. METHOD OF MAKING VALVE TAPPET AND ROLLER HOLDERS FOR HYDROCARBON-MOTORS. GEORGE L. MCCAIN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 17, 1917. Serial No. 169,250. 8 Claims. (Cl. 29—148.)



4. A method of making valve tappet- and roller-holders consisting of drilling two similar cylindrical pieces to provide each with a relatively thin tubular wall throughout part only of its length, drilling a hole through the remaining part of one of said pieces to provide a vent, and welding the thin wall parts of said pieces together end to end.

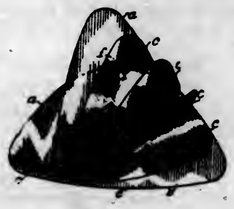
1,345,943. HYDROCARBON-MOTOR. GEORGE L. MCCAIN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Original application filed May 17, 1917, Serial No. 169,250. Divided and this application filed Sept. 29, 1917. Serial No. 193,986. 4 Claims. (Cl. 123—90.)



1. A valve tappet- and roller-holder comprising a tappet-holder part having a tapped head and a tubular portion and a roller-holder part having a slotted head and a tubular portion, said tubular portions being welded end to end.

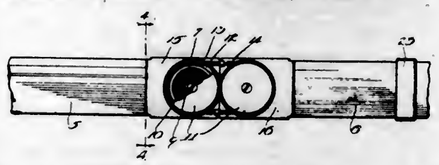
1,345,944. TOE-PUFF AND LIKE STIFFENER FOR BOOTS AND SHOES. DAVID BAIRD MACDONALD, Leicester, England. Filed Mar. 2, 1920. Serial No. 362,859. 5 Claims. (Cl. 154—46.)

1. A stiffener for use in the herein described manner, comprising a face layer, a back layer, a plurality of intermediate layers of reticulated material coated or impregnated with a stiffening agent and a middle layer of porous,



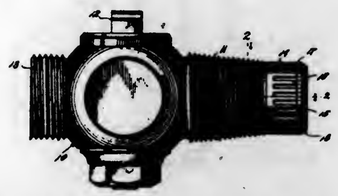
absorbent or like material adapted to serve as a carrier for the stiffening agent, substantially as described.

1,345,945. ELASTIC EXTENSION DEVICE. LOUIS MACHEROUX, Chicago, Ill., assignor of one-half to Karl Matheus, Chicago, Ill. Filed May 12, 1919. Serial No. 296,441. 3 Claims. (Cl. 267—69.)



1. As a new article of manufacture, a spring device comprising two end portions movable toward and from each other, a plate secured to each end portion, a reel pivotally mounted with respect to each plate; said pivotal mountings being non-coincident, a cap over each reel, there being an opening in each cap, a cord secured to and winding upon each reel and passing through the opening of the corresponding cap, a connection from the end of each cord to the cap of the opposite reel, and a spring within each reel for rotating the same to wind its cord thereon, substantially as described.

1,345,946. EEL-GUARD FOR COCKS. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Aug. 27, 1919. Serial No. 320,290. 10 Claims. (Cl. 210—166.)



1. A guard for cocks comprising a cup-shaped body, the end of which is slotted to form a series of bars, and means to hold said bars against displacement.

1,345,947. ART OF MAKING COFFEE AND APPARATUS THEREFOR. FREDERICK H. MULLER, Chicago, Ill. Filed July 29, 1916. Serial No. 112,041. 2 Claims. (Cl. 53—3.)

1. A means for making coffee comprising a liquid receptacle, a perforated bucket within the receptacle, and a series of superposed successively removable, perforated coffee containers supported by said bucket above the bottom thereof, each container being provided with a cover.

2. A means for making coffee comprising a liquid receptacle, a perforated bucket within the receptacle, a removable screen adjacent the bottom of said bucket, and a series of superposed, successively removable perforated



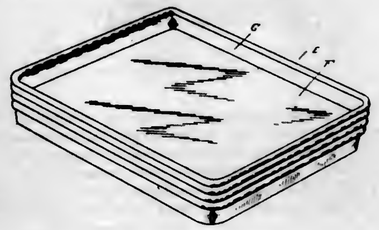
coffee containers supported in said bucket, each container having a top and means for spacing it from the adjacent container.

1,345,948. BOTTLE-CAP REMOVER. LOUIS MYERS, Detroit, Mich. Filed Feb. 17, 1919. Serial No. 277,440. 2 Claims. (Cl. 65—46.)



1. A bottle closure remover, comprising a member for extending across the mouth of the bottle, having finger grips at its opposite ends adapted to engage the bottle and one or more prongs for engaging the closure cap, a pronged member beneath said first-mentioned member in a plane parallel thereto, a handle above the same, and a shank on said handle passing through a central aperture in said first-mentioned member into fixed engagement with said pronged member.

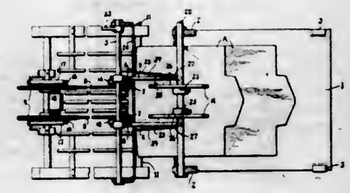
1,345,949. TRAY. LOUIS MYERS, Detroit, Mich. Filed Oct. 15, 1919. Serial No. 330,768. 7 Claims. (Cl. 65—53.)





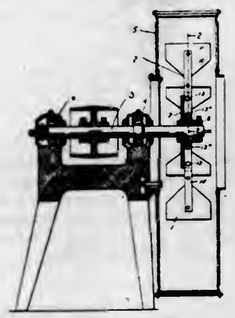
6. The combination with a tray having a bottom and a marginal flange, of a second tray nested within said first-mentioned tray and having a similar bottom and marginal flange, and a spacer upon one of said trays and between said bottoms for maintaining the edges of said marginal flanges vertically spaced and for permitting the weight of the superposed tray resting on the bottom of the lower tray.

1,345,950. TRANSFERRING DEVICE. CHARLES F. PFLANZE, St. Louis, Mo. Filed Oct. 29, 1917. Serial No. 199,006. 12 Claims. (Cl. 271—28.)



10. In a sheet feeding device, a rotary feed member adapted to engage the sheets, a lifter comprising a movable suction tube whereby the sheets are successively placed in engagement with said rotary feed member, a marginal portion of each sheet being elevated by said lifter, a second rotary feed member comprising a pressure roll coöperable with the first mentioned rotary feed member, a lever on which said pressure roll is rotatably mounted, a shiftable support to which said lever is fulcrumed, means for shifting said support to shift said pressure roll from an inoperative position beyond the path of said marginal portion to an operative position wherein it engages the sheet to be fed, and yielding means coöperable with said lever to force said pressure roll into engagement with the sheet.

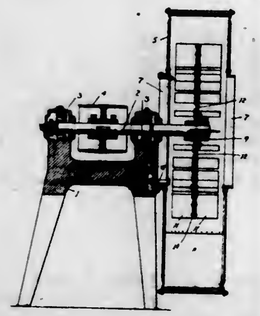
1,345,951. SELF-ALINING FAN-WHEEL. MORTON FRANK PHELPS, Little Rock, Ark., assignor to Phelps Manufacturing Company, Limited, Little Rock, Ark., a Copartnership consisting of Frank Phelps and Morton F. Phelps. Filed Jan. 20, 1920. Serial No. 352,821. 5 Claims. (Cl. 230—11.)



1. The combination, in a fan wheel, with a suitable hub, of a series of spokes projecting from said hub, and flexible laterally of the plane of the wheel, a ring sup-

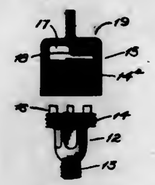
ported by the said spokes, and fan blades secured to said ring, in pairs, and projecting therefrom in opposite directions, for the purpose set forth.

1,345,952. SELF-ALINING FAN-WHEEL. MORTON FRANK PHELPS, Little Rock, Ark., assignor to Phelps Manufacturing Company, Limited, Little Rock, Ark., a Copartnership consisting of Frank Phelps and Morton F. Phelps. Filed Jan. 20, 1920. Serial No. 352,822. 3 Claims. (Cl. 230—11.)



1. The combination, in a fan wheel, with a suitable hub, of a series of spokes pivotally supported upon said hub, and capable of swinging in either direction transversely to the plane of the wheel, a fan blade secured to each of said spokes, and means for locking each spoke in any desired position within its limit of movement.

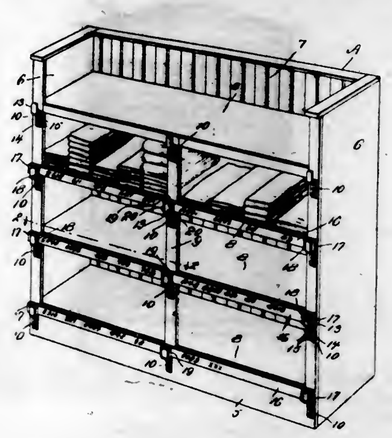
1,345,953. GREASE-CUP. GEORGE B. PICKOP, New Haven, Conn., assignor to The Malleable Iron Fittings Company, Branford, Conn., a Corporation of Connecticut. Filed Mar. 27, 1919. Serial No. 285,417. 3 Claims. (Cl. 184—48.)



1. In a grease cup, a body portion, a cup having threaded engagement therewith, and projections upon said body portion and cap positioned to project into the mass of grease confined within said grease cup, to thereby increase the resistance offered by the grease to a force tending to turn said cap in an unscrewing direction.

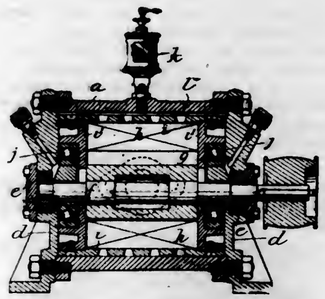
1,345,954. RACK. GEORGE F. RAMM, Del Monte, Calif. Filed Oct. 29, 1917. Serial No. 198,915. 1 Claim. (Cl. 40—63.)

The combination with a rack comprising a vertical row of shelves, of hooks secured along the front of the rack and spaced from the edge of the shelves, indicia bearing strips removably secured in said hooks and disposed along the front edge of the shelves to divide the latter into separate individually indicated spaces and flanged plates carried



by the strips and engageable with the hooks to hold the strips against longitudinal movement.

1,345,955. ROTARY ENGINE, COMPRESSOR, AND EXHAUSTER. WILLIAM REAVELL and HANS HAERLE, Ipswich, England. Filed Dec. 8, 1919. Serial No. 343,399. 5 Claims. (Cl. 230—30.)



1. In a rotary engine, compressor or exhauster of the character described, the combination of a stationary casing, a perforated ring or rings within said casing mounted on bearings for maintaining the same concentric with said casing and arranged to rotate freely therein, and radially movable blades arranged to bear throughout their length against the inner surface of said ring or rings.

1,345,956. HARNESS-BUCKLE. WILLIAM C. REED, Stockville, Nebr. Filed Apr. 16, 1918. Serial No. 228,922. 2 Claims. (Cl. 24—178.)

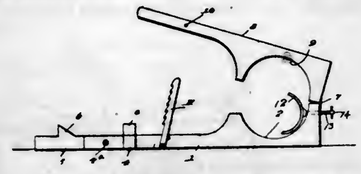
1. In a buckle, a hollow shell having a curved interior and oppositely disposed openings, a plate within said shell and extending at one end through one of said openings, said plate having a laterally directed tongue intermediate its ends, means for swingingly connecting said plate at the other end to said shell near the other opening

thereof, means for attaching a strap to the extended end of said plate, and another strap having spaced perforations



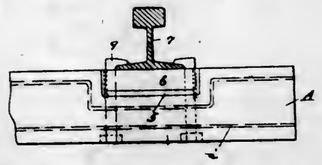
adapted to pass through one opening of the shell and deflected by the curvature thereof through the other opening and engaging by one of its apertures with the tongue.

1,345,957. TIRE-CLAMP. CLAIR L. REISH, Pittsburgh, Pa. Filed May 31, 1919. Serial No. 301,018. 2 Claims. (Cl. 242—6.)



1. A tire clamp comprising a base constructed to engage a predetermined portion of the periphery of a tire casing, supports adjustably associated with the base for supporting spaced portions of the tire casing, a handle member hinged to the base for contracting the diameter of the casing and a catch connected to the base and adapted to engage said handle member for holding the same in operative position.

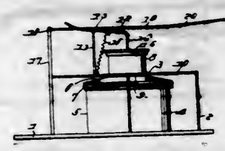
1,345,958. RAIL-FASTENER. CHARLES WESLEY RICHARDSON, Piketon, Ohio. Filed Aug. 13, 1919. Serial No. 317,211. 6 Claims. (Cl. 238—285.)



5. The combination with a casting forming a housing adapted to be seated in a railway tie, and having vertical ways in opposite sides, of a block carried in the housing, rail fasteners passing through the housing and block to engage a rail when upon the block, and means engaged in the ways and fasteners to prevent rotation of the latter and any play thereof.

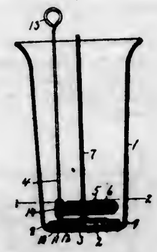
1,345,959. INKSTAND. THOMAS L. ROBERTSON, Danville, Va. Filed Nov. 14, 1918. Serial No. 262,584. 1 Claim. (Cl. 120—67.)

A device of the character described including a base, a container thereon formed with a neck, a retaining frame for the container including upright posts projecting from the base and a spider the ring portion of which is disposed about the neck of the container while the arms are joined with the posts, a secondary post on one of the arms of the spider, a lever swingably connected to the secondary post, a cover suspended from the lever for seating against the neck, one of the posts of the frame being higher than the others, another lever formed with a ring like portion swingingly connected to the high post, a cross bar across the ring like portion of the second lever and seated and supported on the free portion of the first lever so that when



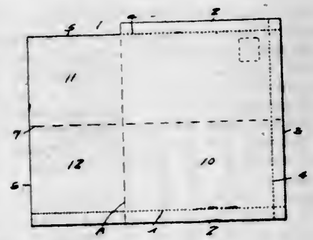
the second lever is depressed the first lever will also be depressed for the raising of the cover, and a coil spring connected to the frame and to the first lever and tensioned so as to normally hold the cover seated and for automatically returning the parts to their normal positions subsequent to the release thereof.

1,345,960. SANCTUARY OIL-LAMP. WILLIAM ROSENBERGER, Syracuse, N. Y., assignor to The Will & Baumer Company, Syracuse, N. Y., a Corporation of New York. Filed Dec. 16, 1918. Serial No. 266,898. 4 Claims. (Cl. 67—36.)



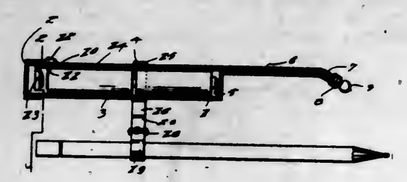
4. A wick-holder for sanctuary oil lamps comprising a base adapted to rest upon the bottom of an oil container and provided with an upstanding lifting rod at one side of its center and means on the lifting rod for holding a wick above the base.

1,345,961. COMBINED LETTER-SHEET AND ENVELOP. FRANK I. SANDA, Steelton, Pa. Filed May 29, 1919. Serial No. 300,509. 1 Claim. (Cl. 229—92.7.)



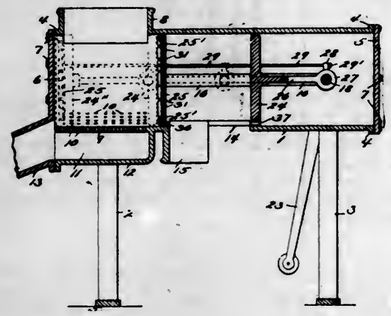
A combined letter sheet and envelop adapted for folding on intersecting lines, said sheet having a foldable portion with an unperforated edge and an unperforated edge contiguous to said portion, and perforated edge strips extending around the sheet from one corner thereof to the line of folding the said portion, whereby the longer sealing side strip is doubled over upon itself and sealed and also sealed to the shorter side sealing strip.

1,345,962. PEN OR PENCIL ATTACHMENT. AURA J. SANDERS, Cedar Springs, Mich. Filed Feb. 28, 1917. Serial No. 151,542. 1 Claim. (Cl. 240—8.4.)



A pen or pencil attachment comprising a cylindrical casing having one end closed and a slot adjacent its other end, means securing the casing to a pen or pencil, a tubular arm formed on the closed end of the casing and in communication with the interior thereof, an electric lamp secured in the end of said arm, a battery in said casing and having one pole thereof electrically connected to the casing, a removable cap closing the open end of the casing, an insulated contact arm slidable in said slot, a handle secured to said contact arm and extending through the slot, a conductor connected to said contact arm and extending through the casing and tubular arm and connected to the lamp, and a right angled extension formed on said contact arm and adapted to be moved with the arm by the handle to engage the other pole of the battery.

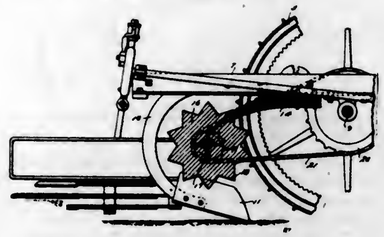
1,345,963. JUICE-EXTRACTOR. NICOLÁS GUNTURÍZ Y SANTOS, Sagua La Grande, Cuba, assignor of one-half to Antonio M. Caraballo, Sagua La Grande, Santa Clara, Cuba. Filed Feb. 24, 1919. Serial No. 278,651. 5 Claims. (Cl. 100—42.)



1. A juice extracting device comprising a casing provided with an inlet for the material to be expressed, and having an outlet for the juice and a further outlet for the bagasse, a plurality of plates within said casing and movable collectively and relatively one to the other, and means for giving a reciprocating motion to said plates to express between them when moved in one direction the material fed into the casing and to discharge the juice, and when moved in the opposite direction to discharge the bagasse.

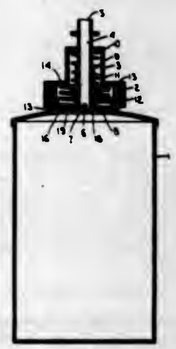
5. A juice extracting device comprising a horizontal cylindrical casing closed at one end and provided near this end with an inlet for the material to be expressed, a perforated bottom beneath said inlet, an outlet for the bagasse, an auxiliary casing beneath said perforated bottom for receiving the juice percolated therethrough, a cover on the closed end of the casing provided with a discharging conduit for the juice, which comprises the auxiliary casing and the lower part of the main casing, two vertical plates, one of which is a pressing plate and the other a percolating plate normally spaced apart from each other and from the closed end of the casing, said percolating plate being arranged between the pressing plate and the closed end of the casing, a horizontal shaft transversely mounted in said casing, a supporting arm loosely mounted on said shaft, lugs projecting from said arm, said pressing plate being slidably mounted on grooves along the casing and rigidly connected to said supporting arm, longitudinal rods extending through said pressing plate, said percolating plate being rigidly connected to said longitudinal rods and through the lugs projecting from supporting arm and provided with a projecting flange on the side facing the closed end of the casing, means within the pressing plate for securing said plate to said longitudinal rods during the movement of said rods toward the cover of the closed end of the casing, and means for allowing said pressing plate to slide upon said longitudinal rods so that the pressing plate approaches the percolating plate and reciprocally in a reverse manner, and a pair of gear wheels fixed on the projecting ends of the horizontal cross-shaft, and horizontal racks provided at the sides of the casing on which said gear wheels are adapted to move forward and backward.

1,345,964. AGRICULTURAL IMPLEMENT. JAMES WADDLE SCOTT, Falcon, Colo. Filed Jan. 16, 1920. Serial No. 351,749. 8 Claims. (Cl. 55—109.)



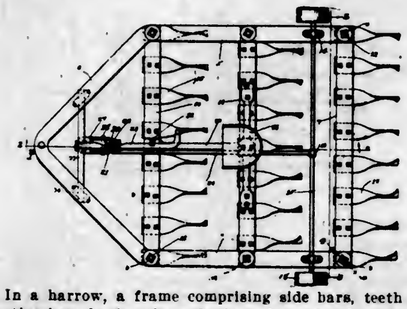
1. A clod breaking device for use in combination with an implement having a plow, an earth-crushing roll attached to the implement above the plow, cutting ridges on the roll, and resilient means for attaching the roll to the farm implements.

1,345,965. CONTAINER FOR VOLATILE LIQUIDS. FREDERICK W. SHUTE, Amesbury, Mass. Filed Sept. 19, 1919. Serial No. 324,925. 4 Claims. (Cl. 221—16.)



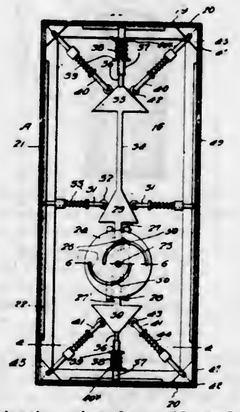
1. In a container, the combination with a container body, of a discharge spout having a discharge port, and a spring-pressed valve member normally closing said port but movable outwardly to open said port by pressure which develops in the container body, said spout being movable inwardly relative to the valve member to open the port.

1,345,966. HARROW. FLOYD E. SIVILS, Lawrence, Miss. Filed Aug. 29, 1919. Serial No. 320,640. 1 Claim. (Cl. 55—75.)



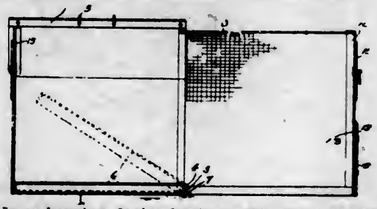
In a harrow, a frame comprising side bars, teeth supporting bars having the ends thereof connected to the side bars, the teeth supporting bars being curved transversely of their lengths, a plurality of teeth supported on the teeth supporting bars, each of said teeth having a lower cutting edge and having a curved portion, the teeth of one bar being disposed in a plane between the teeth of the adjacent bar, and means for moving the teeth into and out of operation.

1,345,967. DOOR. JESS SMELSER, Topeka, Kans. Filed Sept. 29, 1917. Serial No. 193,989. 2 Claims. (Cl. 20—69.)



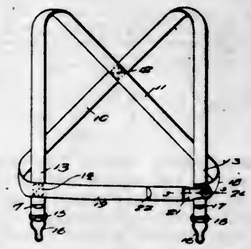
1. The combination of a door, side and end packing strips carried by the door, angle plates pivotally connected to the door and arranged with their apices between the contiguous side and end packing strips on the door, and means for moving said angle plates outwardly and inwardly.

1,345,968. POULTRY-HOUSING DEVICE. DANIEL E. SPEICHER, Urbana, Ind., assignor to The Cyclone Manufacturing Company, Urbana, Ind. Filed Nov. 18, 1918. Serial No. 263,021. 9 Claims. (Cl. 119—19.)



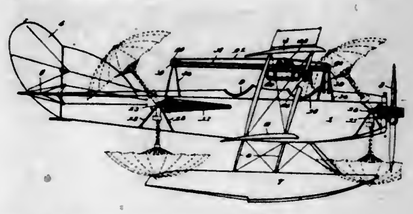
1. In a housing device having guide ways at the bottom thereof and an open front, and a bracing element extending around the open front and held fast thereto and having portions contiguous to said ways conforming to the shape thereof.

1,345,969. SUSPENDERS. BESSIE STACY, Port Clinton, Ohio. Filed Apr. 11, 1919. Serial No. 289,303. 1 Claim. (Cl. 241—12.)



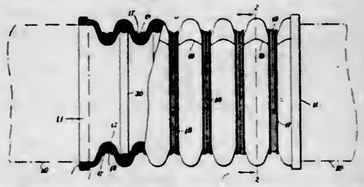
A pair of suspenders comprising web members of unequal length and having button engaging means at their free ends and crossing at equal distances from the button engaging ends and attached where they cross, one terminal of the shorter web being attached to the longer web near its button engaging meahs and the longer web attached intermediate the ends to the shorter web near its button engaging means with the longer web end crossing the chest of the wearer, and means for releasably engaging the free end of the longer web relatively near the button engaging terminal of the longer web.

1,345,970. AIRPLANE. CHESTER FRANK STANLEY, Ashland, Ky. Filed June 2, 1919. Serial No. 301,226. 7 Claims. (Cl. 244—21.)



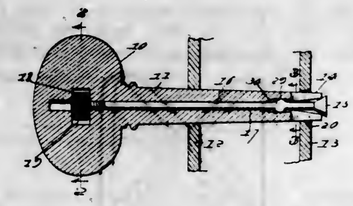
1. In a flying machine, the combination with the fuselage, and wings extending therefrom, of outriggers projecting from the fuselage at opposite sides thereof and in front and in rear of said wings, and front and rear sets of normally collapsed parachutes attached to said outriggers.

1,345,971. FLEXIBLE CONNECTION. RICHARD STAR, Brooklyn, N. Y. Filed Oct. 26, 1918. Serial No. 259,841. 5 Claims. (Cl. 285—90.)



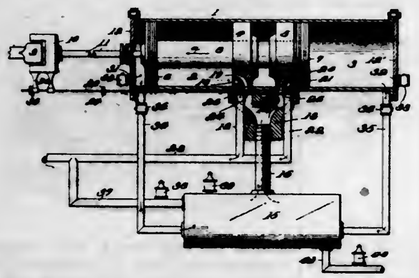
1. The combination with a flexible connection formed with a plurality of corrugated tubular lineal sections, of a plurality of continuous circular binding members for holding said sections in tubular arrangement, said binding members embodying a plurality of separable ring sections adapted to infold said tubular sections, and a suitable wrapping for said binding members.

1,345,972. TUNING-PEG FOR MUSICAL INSTRUMENTS. HOWARD P. STROUGH, Fresno, Calif. Filed June 4, 1919. Serial No. 301,600. 1 Claim. (Cl. 84—78.)



The combination with a musical instrument having a peg box of which the rear wall is provided with an outwardly flared peg seat, of a peg having its shank provided at its ends with a plurality of longitudinal slits and fitted in said flared seat, a conical spreader engaged in the slit terminal and provided with a stem extending through the shank of the peg, said stem being formed with oppositely disposed fins, the shank having guide grooves in which the fins engage, the head of the peg having a recess, and a knurled nut set in the recess of the head and threadingly engaging the extremity of the shank, whereby longitudinal movement without angular movement is imparted to the shank to draw the spreader into the slit terminal of the shank for firm frictional contact of the latter with the flared seat of the peg box.

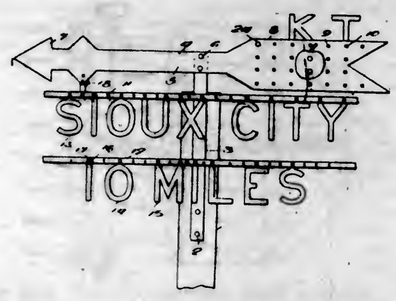
1,345,973. AIR-COMPRESSOR. BURCHARD D. THOMPSON, Cyclone, Pa. Filed Mar. 11, 1919. Serial No. 281,905. 1 Claim. (Cl. 230—32.)



An air compressor comprising a cylinder casing having an intermediate cylinder head forming two cylinders, a piston in the said cylinder, an operating piston rod passing through one of the outer heads of the cylinder and connected with the adjacent piston, a relatively large piston rod connecting the two pistons and reciprocating through the inner cylinder head, the outer ends of each cylinder having air inlets, a tank communicating with the outer ends of the cylinders, the inner cylinder head having two sets of inlet and outlet ports, and means for controlling the said ports by opening the inlet port when its respective piston is moving away from the port and closing the outer port, and opening its respective outlet port and closing its respective inlet port when the piston is moving toward the said ports.

1,345,974. ROAD-GUIDE. ELDORUS B. WATTS, Alcester, S. D. Filed Dec. 16, 1918. Serial No. 266,871. 1 Claim. (Cl. 40—145.)

A device of the character described comprising a standard, a bracket secured to the upper end of said standard, an arrow shaped member secured medially to the upper end of the bracket, the tail portion of said arrow being provided with a plurality of vertically and horizontally arranged rows of openings, letters disposed on the tail portion and rising vertically above the same, a symbol mounted on the tail portion of the arrow, a plurality of



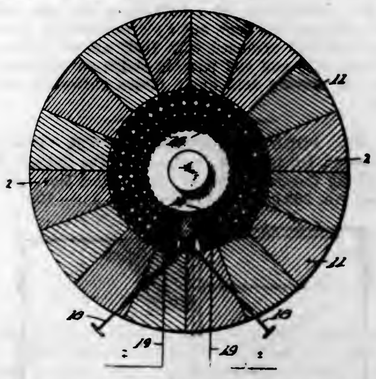
supporting bars secured to the bracket in spaced parallel relation below the arrow, and a plurality of letters carried by the supporting bars and depending therefrom.

1,345,975. SIFTER-TOP FOR CONTAINERS. JOSIAH T. WILCOX, Westfield, N. J., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Mar. 15, 1920. Serial No. 365,956. 4 Claims. (Cl. 221—64.)



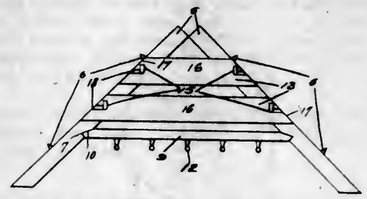
1. A sifter top for containers, including an apertured neck, an apertured cap rotatable to bring the apertures in the cap and neck into and out of register, said cap including a downwardly projecting marginal skirt, a collar mounted on the neck, and means carried by the collar and slidably engaging the skirt for maintaining said cap in engagement with the upper part of the neck.

1,345,976. ELECTRICAL FURNACE. RAYMOND SAMUEL WILE, New York, N. Y. Filed Feb. 26, 1920. Serial No. 361,379. 6 Claims. (Cl. 204—64.)



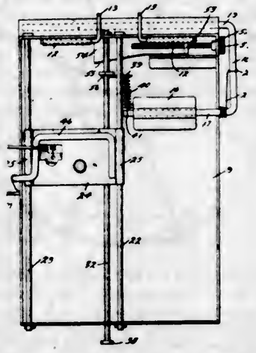
1. A furnace of the class described having a resister provided with current paths in parallel decreasing in length from the outside inwardly.

1,345,977. CORNER RACK AND SHELF. NELSON B. WINTER, Frostburg, Md. Filed Sept. 18, 1919. Serial No. 324,398. 1 Claim. (Cl. 248—18.)



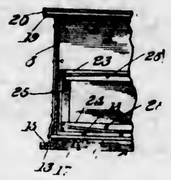
In a knock down shelf, a pair of divergent bars having recesses in their opposed faces disposed in alinement, each of the recesses having inclined side walls and an inclined rear wall, said recesses being provided with notches at the ends thereof, a cross bar having inclined end walls conforming to the inclined surfaces of the first mentioned recesses, a shoulder formed at the base of each end, shelves supported on the divergent bars, and means for securing the divergent bars to right angularly extending walls.

1,345,978. COPY-HOLDER. ALBERT N. WOODRUFF, New York, N. Y. Filed Nov. 20, 1919. Serial No. 339,325. 3 Claims. (Cl. 120—34.)



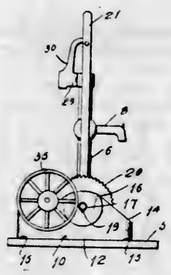
1. A copy-holder comprising a base, a writing bed carried by the base, a plurality of rods rigidly carried by the writing bed on the rear face thereof, a reciprocating rod mounted on the rear face of the writing bed, said reciprocating rod being movable longitudinally of the writing bed, a carriage slidably mounted on the first-mentioned rods and overlying the reciprocating rod, a lever pivotally carried by the carriage, a trigger member pivotally carried by said lever and provided with an opening for the reception of the reciprocating rod, and means actuating the trigger to cause its positive engagement with the reciprocating rod when the latter is moved in one direction and to permit of free movement of the reciprocating rod in the other direction.

1,345,979. MILK-CRATE. DAVID G. ADAIR, Ionia, Mich. Filed May 10, 1916. Serial No. 96,660. 1 Claim. (Cl. 220—21.)



In a milk crate, the combination with a metallic body portion having a meshed bottom, of a skeleton frame therefor, said frame being removably mounted within the body and supported upon the meshed bottom thereof, said frame constituting upper and lower auxiliary frame sections, a series of cross rods carried by each section, and metallic corner braces connecting the sections and cross rods in paced relation, one to the other, and spacing the upper and lower sections of the frame from each of the walls of the body portion to permit of a free circulation of the air passing through the crate between the walls of the body and the auxiliary frame and sections of the frame and cross rods.

1,345,980. PUMP-JACK. HENRY F. ALEXIS and MAGNUS OLSON, Fishlake, Minn. Filed Sept. 19, 1917. Serial No. 192,135. 1 Claim. (Cl. 74—14.)



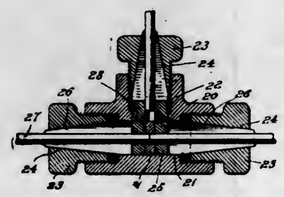
A pump jack including a base, side, front and rear walls resting on said base and said rear wall being of a greater height than the front wall, said side walls having their ends bent and overlying and secured to the front and rear walls and being inclined from their ends to a point intermediate their ends to conform to the height of the front and rear walls, outwardly extending bearings formed on the side walls at a point intermediate their ends, stub shafts journaled in said bearings and projecting beyond the inner faces of said side walls, gears secured to the inner ends of said shafts and lying in close proximity to the inner faces of said side walls, means connecting said gears to the sucker rod of a pump, lateral ears formed on the lower edges of the side walls and secured to the base, outwardly extending and horizontally disposed bearings formed on the upper edge of the side walls adjacent one of their ends, a power shaft journaled in the last named bearings, and means connecting the power shaft to the gears.

1,345,981. GUN-CAMERA. ERNEST C. BASS, New York, N. Y. Filed Apr. 29, 1918. Serial No. 231,491. 10 Claims. (Cl. 88—17.)



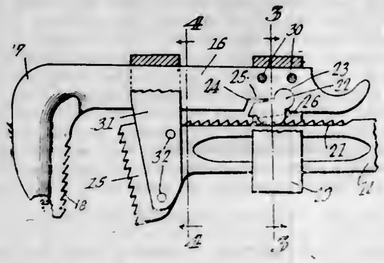
1. In a gun camera, a camera proper having a shutter and a film feeding mechanism, a controlling and actuating device for the said shutter and film feeding mechanism, spring pressed means connected with the said controlling and actuating device, and a trigger controlled releasing device for the said means to release the latter on pressing the trigger, to allow the means to move by the action of its spring to actuate the said controlling and actuating device for manipulating the shutter to make an exposure.

1,345,982. T, Y, AND L CONNECTOR. ROBERT A. BECKER, Poughkeepsie, N. Y., assignor to Charles Tremain, Poughkeepsie, N. Y. Filed Nov. 27, 1916. Serial No. 133,632. 1 Claim. (Cl. 287—116.)



A connector, comprising a casing having a bore, an outwardly tapering gripping member within said bore, a contracting member having a tapered bore and adapted to be screwed in said casing and contract the tapered end portion of said gripping member extending into said last-named bore, and a second bore within said casing opening into said first bore, the axis of said casing bores being angularly disposed with respect to each other, an outwardly tapering gripping member within said last-named bore, and a second contracting member having a tapered bore and adapted to be screwed upon said casing and contract the end portion of said second gripping member extending into the bore of said second member, by forcing one gripping member directly against a laterally directed face portion of the other gripping member.

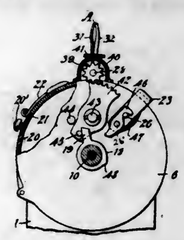
1,345,983. RATCHET PIPE-WRENCH. WILLIAM E. BELL, Tulsa, Okla., assignor to The Bell Wrench Company, Tulsa, Okla. Filed Nov. 28, 1919. Serial No. 340,982. 6 Claims. (Cl. 81—139.)



1. A wrench comprising a fixed jaw and shank, the latter having its upper edge provided with ratchet teeth and shoulders at either side of the teeth, a movable jaw having a shank, means for movably connecting the shanks, the shank of the movable jaw being recessed at its bottom edge and a spring actuated pawl pivoted in the recess to engage the ratchet-teeth and formed with means to engage the smooth walls of the shoulders whereby to raise the pawl from engagement with the teeth and permit free sliding movement of the movable jaw relative to the fixed jaw with the engaging means of the pawl moving along said walls.

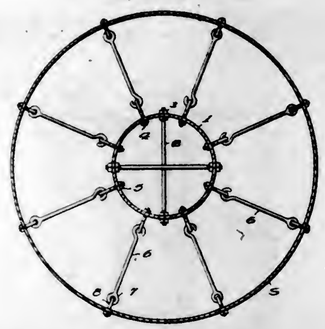
1,345,984. TOOTHPICK-DISPENSING DEVICE. CHARLES HARRISON BENNETT, Mount Morris, N. Y. Filed Sept. 29, 1919. Serial No. 327,207. 8 Claims. (Cl. 211—8.)

4. A device of the character stated, comprising a rotary receptacle, a gate normally closing an opening in the receptacle, a gripper on the outside of the receptacle, a segment controlling the operation of the gripper, a pivoted



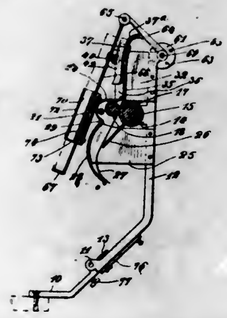
dog operatively connected to the gate, a fixed part, and a lug on the same, said fixed part and lug controlling the operation of the gripper and the gate.

1,345,985. SILO-BRACE. WILLIAM ANDERSON BERKSHIRE, Ocheyedan, Iowa. Filed Nov. 3, 1917. Serial No. 200,100. 1 Claim. (Cl. 20—1.4.)



The combination with a silo having a cylindrical body, of a removable brace comprising a tube of considerably less diameter than the dameter of the silo body and adapted to be centrally located in the latter, eye-bolts adjustably secured at intervals in the silo body and tube and elongated hooks loosely connected permanently to the eye-bolts in the silo body and detachably engageable with the eye-bolts in the tube, and crossed rods in the tube and connected thereto at diametrically opposite points of the same.

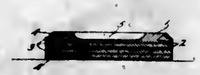
1,345,986. COPY-HOLDER FOR TYPEWRITERS. MILTON EUGENE BLUME, New York, N. Y. Filed Nov. 24, 1917. Serial No. 203,808. 7 Claims. (Cl. 120—32.)



1. A copy holder comprising a supporting frame, a feed roller and a compression roller mounted in said frame,

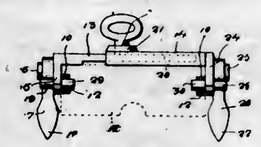
a fixed guiding member extending upwardly from a point adjacent, the meeting line of said feed and compression rollers, and an adjustable guiding and screening member disposed in front of said fixed guiding member and having its bottom edge a short distance above the said compression roller, a rack secured to said screening and guiding member, a pinion engaging said rack, and means whereby said pinion may be rotated.

1,345,987. CUSHION-SUPPORT. FREDERICK WILLIAM BOCKING, Rifle, Colo. Filed Feb. 27, 1920. Serial No. 361,871. 2 Claims. (Cl. 84—15.1)



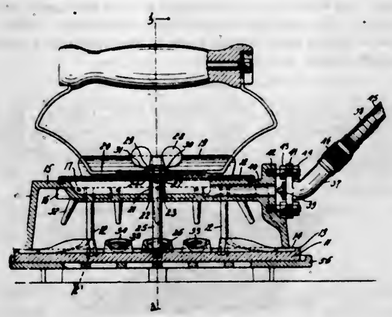
2. As a new article of manufacture, a cushion pad comprising a series of superimposed layers of rubber, certain of said layers being of relatively soft rubber with a relatively high degree of resiliency and others of said layers being of relatively hard rubber with a relatively low degree of resiliency, the alternate layers being of the same material and the adjacent layers being of different material, the top and bottom layers being of relatively soft rubber, the uppermost layer of relatively hard supporting rubber having a central opening which is filled by the top layer of soft rubber and said top layer of soft rubber having a circular depression in its face, the uppermost layer of hard rubber forming a support for the walls of said depression, and all of said layers vulcanized together.

1,345,988. SKEE-BRAKE. ARVID BRAGER and OSCAR LEE, Kinosee, Alberta, Canada. Filed July 14, 1919. Serial No. 310,532. 3 Claims. (Cl. 46—67.)



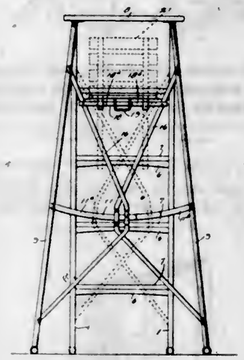
1. A brake mechanism for skees comprising a pair of telescopically engaged members extending transversely of the skee, a brake arm pivoted upon each of said members and adapted to extend beyond the lower surface of the skee, said arms being freely movable in one direction, and means for limiting movement of said arms in the other direction.

1,345,989. SADIRON. MICHAEL BROWN, New York, N. Y. Filed May 12, 1919. Serial No. 296,431. 6 Claims. (Cl. 158—23.1.)



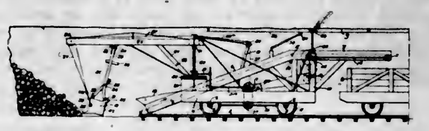
1. A sad iron, comprising a base, a chambered body thereon having a longitudinal recess in its top, a member covering said recess provided with upwardly and outwardly extending wings projecting over said top, a screw-threaded bushing uniting said member and said body, tubular burners within said body communicating with said recess, a gas supply connection leading to said recess, a handle placed upon said member, a screw-threaded bolt fixed to said base extending through said bushing and handle, and a nut on said handle in engagement with said bolt for uniting said base, body and handle.

1,345,990. STEPLADDER. ORLANDO W. BROWN, Jr., Sanford, Me. Filed Dec. 18, 1919. Serial No. 345,836. 5 Claims. (Cl. 228—31.)



1. A stepladder, comprising front legs, steps on the front legs, rearwardly projecting bars secured to the upper ends of the front legs, rear legs pivotally connected to the bars, means connecting the rear legs and permitting lateral movement of the lower ends of the legs, said rear legs of tubular longitudinally slotted formation, links pivotally connected to the front legs, and enlargements on the ends of the links movable in the tubular rear legs.

1,345,991. POWER MINE-SHOVEL. PATRICK B. BROWN, Shenandoah, Pa. Filed June 3, 1918. Serial No. 237,915. 4 Claims. (Cl. 214—90.)

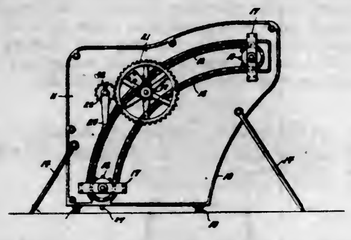


1. The combination in a power mine shovel, of a frame; a centrally located box at the forward end of the frame open at its under side; an inclined belt conveyer mounted on the frame and extending through the opening in the box to a point beyond the rear end of the frame; a vertical shaft; a horizontal boom, the said shaft being supported by the box; means for supporting the upper end of the shaft and boom; means for moving the boom laterally; a head; a screw for traversing the head to and from the pivot of the boom; a shovel pivoted to the head and connected to the boom so that it can be moved rearward from its digging position with its load in order to discharge its load onto the conveyer.

1,345,992. LIFTING APPARATUS. JOSEPH DUROFSKY, Philadelphia, Pa. Filed Oct. 11, 1919. Serial No. 329,911. 2 Claims. (Cl. 254—4.)

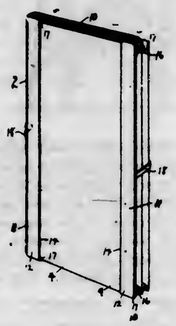
1. A device of the character described, comprising a frame formed of spaced vertical sides having cut out portions, sprocket wheels mounted in said cut out portions, continuous chains in said cut out portions and carried on

said sprocket wheels, an interposed cradle having its ends connected to said chains, mechanism for actuating said chains carrying the cradle therewith, runners carried on



the sides of the frame adjacent the said chains and rollers on the cradle and operating over said runners when the cradle is actuated by the operation of said chains.

1,345,993. CARD-HOLDER FOR ENVELOPS AND WALLETS. ALVAH BUSHNELL, Jr., Philadelphia, Pa. Filed Jan. 6, 1919. Serial No. 269,776. 9 Claims. (Cl. 150—39.)



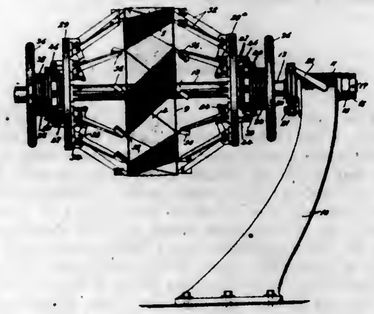
1. In a device of the character stated the combination with a wallet including an outer wall, of a pair of spaced parallel runners secured to the outer face of said wall and having their ends folded over and secured to the inner face of said wall, the inner edges of said runners being free to permit the insertion of a card.

1,345,994. PNEUMATIC-TIRE CASING AND PROCESS FOR MAKING SAME. FRED B. CARLISLE, Andover, Mass., assignor to Joseph M. Gilbert, New York, N. Y. Filed Aug. 2, 1919. Serial No. 314,931. 18 Claims. (Cl. 154—14.)



1. The process of making pneumatic tire casings which consists in supporting a pair of spaced annular members from the inside at individual points, spaced apart to define winding spaces, and winding a band of composite material comprising a rubber sheet carrying adhesively upon its surface a group of parallel adjacent cords between and around said annular members at said winding spaces to form a cylindrical unit, said band of material corresponding in width to an integral division of the width of said winding spaces, the latter thus constituting multiples of the width of the band.

1,345,995. APPARATUS FOR MAKING PNEUMATIC-TIRE CASINGS. FRED B. CARLISLE, Andover, Mass., assignor to Joseph M. Gilbert, New York, N. Y. Filed Dec. 6, 1916, Serial No. 135,353. Renewed Dec. 10, 1919. Serial No. 343,815. 27 Claims. (Cl. 154—11.)



1. Apparatus of the kind described comprising two alined sets of supports for two annular members, each set consisting of a series of annularly disposed fingers spaced apart from each other to permit a band of cords to be passed over the annular members and between two of the adjacent fingers.

1,345,996. APPARATUS FOR USE IN THE MANUFACTURE OF PNEUMATIC-TIRE CASINGS. FRED B. CARLISLE, Andover, Mass., assignor to Joseph M. Gilbert, New York, N. Y. Filed Aug. 2, 1919. Serial No. 314,932. 7 Claims. (Cl. 33—80.)



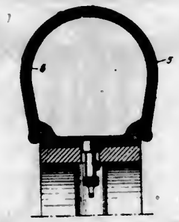
1. An apparatus of the kind described comprising a table of a length to accommodate a band of material adapted to be helically wound about and between axially spaced annular members to form a carcass and a plurality of projections mounted upon said table in spaced, parallel rows for positioning a guiding device transversely across said band to indicate the locations of markings thereon, said projections being independently adjustable in each row o fixed positions in predetermined accord with said carcass whereby the aforesaid markings accurately define the turns at which said band is to be folded about said annular members in its helical path.

1,345,997. CASING FOR PNEUMATIC TIRES. FRED B. CARLISLE, Andover, Mass., assignor to Joseph M. Gilbert, New York, N. Y. Filed Aug. 2, 1919. Serial No. 314,930. 4 Claims. (Cl. 152—13.)



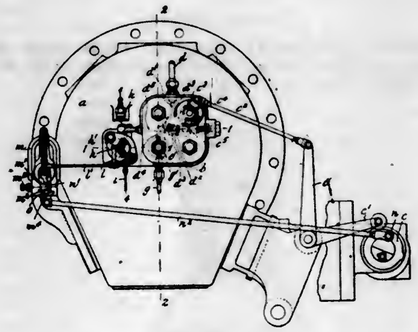
1. In a casing for pneumatic tires the combination of a pair of annular members and a plurality of parallel, adjacent cords constituting a band extending between and about said annular members in helical windings and having its ends overlapping to form a splice, at least one of said ends being flattened at said splice.

1,345,998. CASING FOR PNEUMATIC TIRES AND PROCESS OF MAKING SAME. FRED B. CARLISLE, Andover, Mass., assignor to Joseph M. Gilbert, New York, N. Y. Filed July 31, 1919. Serial No. 314,433. 4 Claims. (Cl. 154—14.)



1. The process of making casings for pneumatic tires which consists in constructing a carcass, supporting said carcass upon a core and combining said core with said carcass by vulcanization.

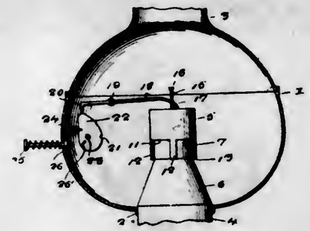
1,345,999. MEANS FOR IGNITING THE CHARGE IN INTERNAL-COMBUSTION ENGINES. FRANK CARTER and EVERSHED CARTER, Stamford, England, assignors of one-third to George Mills Blackstone, Stamford, England. Filed Mar. 26, 1919. Serial No. 285,312. 2 Claims. (Cl. 123—143.)



1. In an internal combustion engine of the kind in which a main fuel charge is injected into the combustion chamber near the end of the compression stroke, the combination of a sprayer for injecting the main charge, a spring-pressed piston *f'* provided in said sprayer, means for igniting said main fuel charge said means comprising a fuel and air mixing block (*h*), a spraying nozzle (*h'*), a mixing port (*j*), air circulating ports (*j'*) in the block (*h*), a communication passage leading from the block (*h*) to the combustion chamber, electrical means for igniting the charge sprayed by the nozzle (*h'*), and a single compressed air valve such as (*b*) to control both the main spray and the ignition spray.

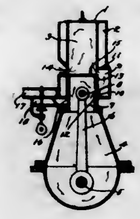
1,346,000. AUTOMATIC SAFETY GAS-VALVE. DON C. CARVER, Cambridge, Ohio. Filed Feb. 5, 1919. Serial No. 275,162. 1 Claim. (Cl. 67—115.)

An automatic safety gas valve, comprising a nozzle having gas ports in the discharge end thereof, a cap slidably mounted upon said nozzle and also formed with corresponding gas ports, and a spring pressed lever means for automatically limiting the opening movement of said cap, said cap being raised by the pressure of the gas received



in the nozzle, said spring pressed lever means also serving to hold said cap in a closed position upon the fall in the pressure of the gas, and means for releasing said spring pressed lever means from a locked position.

1,346,001. INTERNAL-COMBUSTION ENGINE. THOMAS B. CASEY, Boston, Mass. Filed Oct. 25, 1919. Serial No. 333,143. 3 Claims. (Cl. 123—76.)



1. In an internal combustion engine, a cylinder having an intake and exhaust port, a crank case, a crank shaft in the crank case, a by-pass having openings for establishing communication between the combustion chamber of the cylinder and the crank case, a piston in the cylinder and provided with an opening adapted to register with one of the openings of the by-pass, the opening of the piston being adapted to be closed by the portion between the openings of the by-pass, a piston rod connecting the piston with the crank shaft, and a manifold connected with the intake port of the cylinder and having a valved inlet for explosive mixture and a valve inlet for a scavenging medium.

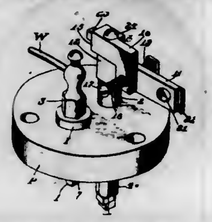
1,346,002. PROCESS OF PRODUCING ALKALI-METAL HYDRATES. HARRY WILLIAMS CHARLTON, Jones Point, N. Y., assignor to American Potash Corporation, a Corporation of Virginia. Filed Oct. 12, 1916. Serial No. 125,164. 13 Claims. (Cl. 23—22.)

1. The process of producing an alkali metal hydrate from rock material containing an alkali metal which consists in heating and digesting said rock material with a reagent containing an alkali metal hydrate mixed with a reagent containing an alkali earth metal hydrate at a pressure and for a time sufficient to produce the desired alkali metal hydrate and suitably recovering said last named hydrate, substantially as described.

1,346,003. SPARK-PLUG. CARL D. CLELAND, Jean, Nev. Filed July 3, 1917, Serial No. 178,429. Renewed Dec. 2, 1919. Serial No. 342,013. 2 Claims. (Cl. 123—157.)

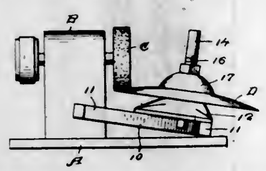
2. In an oscillating-electrode sparking igniter of the type described, the combination with a rock shaft adapted to be mounted through the head of a cylinder and having

a threaded socket in its upper end and a rocker arm at its lower end for contact with the fixed electrode, and an actuating arm having at its inner end a hub provided with a hole loosely mounted on the upper end of said shaft and at its outer end means for connection with the trip mechanism; of a finger having at its inner end an upright hole adapted to be mounted on the rock shaft above the



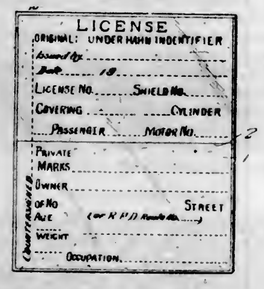
hub of said arm and at its outer end a downturned tip adapted to be placed selectively along either side of said arm, the tip and arm being pierced with registering perforations, a bolt extending through said perforations and carrying springs at opposite sides of the finger and tip for holding them normally in contact, a screw in said socket for holding the finger on the rock shaft, and a set screw for permitting its adjustment thereon.

1,346,004. DISK-HOLDER. RALPH COLLEY, Tonica, Ill. Filed Sept. 19, 1919. Serial No. 324,787. 1 Claim. (Cl. 51—7.)



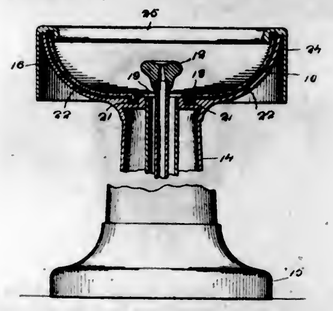
A device of the character described comprising a frame provided with handles, a plate secured upon said frame and provided with a hole, an axle member cylindrical and of the same diameter at each end with either end insertible within said hole, a frusto-pyramidal enlargement formed upon said axle member intermediate the ends thereof and adapted for conforming engagement with the square hole provided in the center of harrow disks, said axle member being provided adjacent said enlargement with a threaded portion, and a cup member engaged upon said threaded portion and adapted to bear against a harrow disk engaged upon said axle against said enlargement, said cup member having an annular portion engageable by a wrench.

1,346,005. LICENSE-CARD. CHARLES HIRAM CORNELL, Valentine, Nebr. Filed July 12, 1918. Serial No. 244,606. 1 Claim. (Cl. 283—18.)



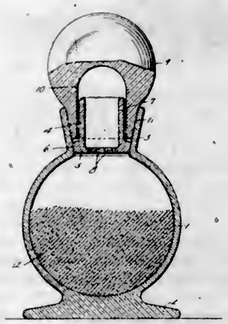
In combination, a license card adapted to be folded upon itself to define two similar portions, one portion bearing data identifying a motor car and the other portion bearing data identifying the owner, and a plate tag arranged over a disfiguring opening in a car body and bearing identification data corresponding with data on the card.

1,346,006. DRINKING-FOUNTAIN. STANLEY RICE CURTIS, Royal Oak, Mich. Filed May 29, 1918. Serial No. 237,347. 2 Claims. (Cl. 40—125.)



1. In a device of the class described, a standard, a bowl mounted thereon, said bowl having a lower central outlet opening and an annular channel surrounding the opening, an inner bowl of transparent material within the bowl first named and having a central opening and an annular flange projecting from the edges of the walls of the opening into the aforesaid channed, packing material between the flange and the walls of the channel, and a display sheet between the walls of the bowls and protected by the joint effected between the flange and the channel.

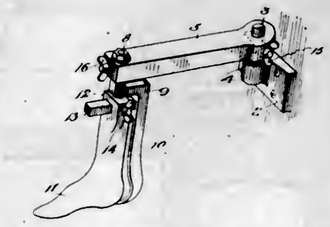
1,346,007. CONDIMENT-HOLDER. PEDRO PABLO DE AGUIAR, Habana, Cuba. Filed May 5, 1920. Serial No. 379,184. 3 Claims. (Cl. 65—45.)



2. A condiment holder, comprising a body having a conical open neck at its upper end, a stopper having a conical lower portion adapted to fit in the lower portion of the neck, said stopper having a perforated bottom and a spout integral with the stopper and with which the perforations communicate, said spout spaced from the interior surface of the neck, and a cover for said holder.

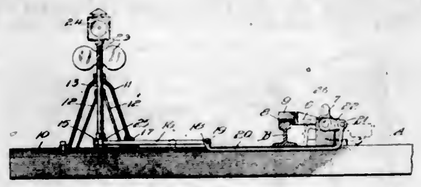
1,346,008. SHOE-SUPPORT. VINCENZO DI MAGGIO, New York, N. Y. Filed Apr. 5, 1919. Serial No. 287,875. 2 Claims. (Cl. 12—128.)

1. A device of the character described, comprising a fixed bracket support; a bracket arm pivoted thereon to swing in a horizontal plane; and a sectional shoe form, the heel part of which has an angular top turnably supported on the swinging end of the arm, and having there-



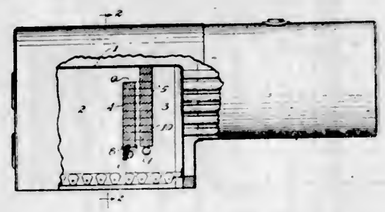
below a horizontal shank on which the toe section is slidably adjustable to vary the length of the foot part of the form.

1,346,009. DERAILER. JERRY M. ESTES, Brecknridge, Okla. Filed Feb. 25, 1920. Serial No. 361,121. 1 Claim. (Cl. 246—163.)



The combination with a railway track construction having a rail and cross ties, of a derailer device comprising a pair of bearings mounted upon a pair of spaced cross ties contiguous to the rail, a derailer block having trunnion ends journaled in the bearings and adapted for vertical swinging movement to be positioned in superimposed relation to the rail, a signal stand supported upon the ties at a distance from the rail, a shaft journaled vertically in the stand and having a rack gear, signal vanes on said shaft, a signal lamp on said shaft above the vanes, a rack bar meshing with the rack gear, a crank on one of the trunnions, a link pivoted to the crank and to the rack bar and extended beneath the rail, a manually operable lever mounted at one side of the stand, a crank on the other side of the derailer block, a shift rod pivotally connected to the last named crank and to the operating lever, a guide in the stand for the rack, and means in the stand to hold the rack bar in engagement with the rack gear.

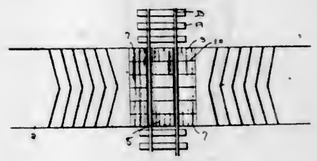
1,346,010. ARCH FOR FURNACES. IRA W. FOLTZ, Chicago, Ill. Filed Apr. 25, 1918. Serial No. 230,677. 3 Claims. (Cl. 110—93.)



2. A furnace of the class described, comprising a boiler forming a firebox, a grate in said firebox, a boiler pipe extending through the firebox above the grate and communicating with the sides of the boiler, a dividing wall in the firebox above said boiler pipe, and a metallic rider

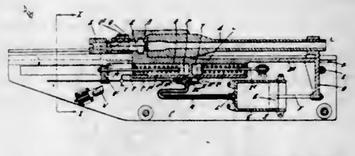
between said boiler pipe and dividing wall, said rider having a vertical flange extending along one side of the lower edge of said wall.

1,346,011. ROAD-CROSSING. SAMUEL H. FURRY, Lancaster, Ohio. Filed Nov. 5, 1919. Serial No. 335,929. 10 Claims. (Cl. 238—8.)



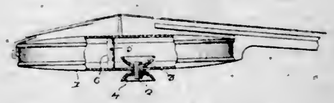
1. A road crossing for railways constructed and arranged to lie in spaced relation to the track rails and ties to prevent transmission of the vibratory movement of said rails and ties to the crossing.

1,346,012. AUTOMATIC FIREARM. HUGH WILLIAM GARRETT-FAIRFAX, London, England. Filed Apr. 22, 1920. Serial No. 375,824. 6 Claims. (Cl. 42—4.)



1. In a firearm, a recoiling breech and barrel, an air-cylinder, a piston movable in said cylinder, gearing connecting said piston to said breech and barrel, means for taking compressed air from said cylinder at any desired point in the recoil, breech mechanism, means actuated by such compressed air for operating the breech mechanism and opening the breech, and means for closing the breech and returning the recoiling parts of the firearm to their forward position.

1,346,013. VIOLIN ATTACHMENT. HUGH GALBRAITH, Wahiawa, Oahu, Hawaii. Filed July 12, 1919. Serial No. 310,362. 1 Claim. (Cl. 84—44.)



A violin having a tubular post passing through its rear wall, and a pair of bells carried by said post, one bell being located within the violin and engaging the inner face of the back thereof and the other bell engaging the other face of the back for increasing the power and improving the tone of the instrument.

1,346,014. SHAWL MUFFLER. LOUIS GARWITT, New York, N. Y. Filed Aug. 23, 1919. Serial No. 319,385. 2 Claims. (Cl. 2—118.)

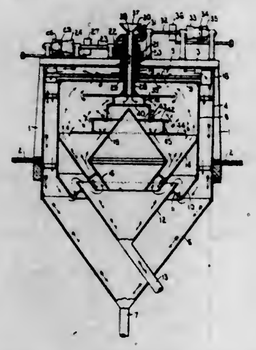
2. As a new article of manufacture, a combined shawl-muffler and hood, comprising a relatively long narrow strip of material, a hood formed on the intermediate portion of the strip having its forward edge rolled backwardly

said hood adapted to be folded back over the shoulders of the wearer and when the hood is in folded position said



backwardly rolled portion of the hood forms a collar for the shawl and said hood being located between the body of the shawl and the collar.

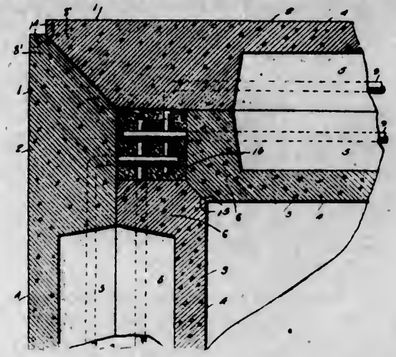
1,346,015. AIR-SEPARATOR. WILLIAM A. GIBSON and CHARLES E. NEEDHAM, Allentown, Pa., assignors to Bradley Pulverizer Company, Boston, Mass., a Corporation of Maine. Filed Apr. 1, 1918. Serial No. 225,906. 9 Claims. (Cl. 83—40.)



1. An air separator comprising a closed outer casing having a delivery hopper for the finished material, an inner casing spaced apart from said outer casing and having a delivery hopper for tailings, adjustable means for creating a continuous circulation of air upwardly through said inner casing and downwardly through the space between said inner and outer casings, a feed pipe for the material extending into said inner casing, rotary distributing means located beneath said feed pipe and adjustable means operated independently of the air circulating means for rotating said distributing means.

1,346,016. CONCRETE CONSTRUCTION. AXEL GOMSRUD, Portland, Oreg. Filed Jan. 23, 1919. Serial No. 272,734. 1 Claim. (Cl. 72—30.)

In a concrete building construction, a pair of blocks formed from an inner molded section and an outer molded section, each section having transverse strengthening ribs and vertical strengthening ribs, and metallic stay rods extending through said ribs, the outer vertical ribs of the outer sections of the blocks being extended beyond the outer vertical ribs of the inner sections of the block, the inner corners of the vertical rib of the outer section beveled to form meeting faces, the inner corners of the vertical ribs of the inner sections being beveled to form meeting faces, the inner and outer sections of the blocks at the meeting points thereof being arranged to form a hollow space, the stay bars being extended into said hollow space, and



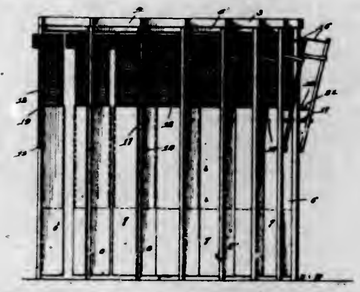
a binding material adapted to be poured into the said space.

1,346,017. TOY BOOK. MILTON GOODMAN, New York, N. Y. Filed Nov. 22, 1919. Serial No. 339,774. 4 Claims. (Cl. 46—37.)



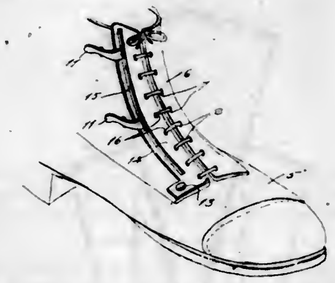
1. The herein described toy book comprising a plurality of leaves, there being formed adjacent to corresponding edges of said leaves a plurality of representations of half figures, and a mirror carried by the book and extending at one edge in close proximity to said corresponding leaf edges and adapted to be brought successively into correlation with the edges of the leaves bearing said half figures, to disclose in connection with the several half figures the complements thereof.

1,346,018. MAIL-HANDLING APPARATUS. THOMAS GRUBB, Johnston City, Ill. Filed Dec. 29, 1919. Serial No. 347,955. 7 Claims. (Cl. 211—36.)



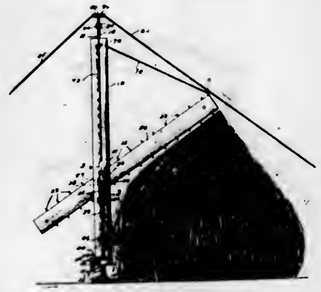
6. A mail handling apparatus comprising a horizontal trackway, frames movably supported thereon, means for securing the frames together, and a vertical row of boxes mounted in each frame and movable vertically therein.

1,346,019. ATTACHMENT FOR SHOES. PHILIP HAAG, Brooklyn, N. Y. Filed July 26, 1919. Serial No. 313,463. 2 Claims. (Cl. 36—50.)



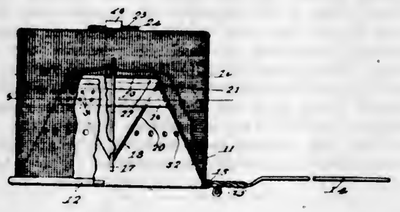
1. The combination with a shoe, of a plurality of fastenings near one edge of the upper of said shoe, a plate adapted to be connected with the upper by said fasteners, said plate being provided with a plurality of apertures arranged in a longitudinal row near one edge, the opposite edge of the upper being provided with a similar series of apertures and a lace for insertion in the apertures for adjusting the upper about the foot and ankle of the wearer.

1,346,020. GRAIN AND HAY STACKER. JOHN HABBART, Prairie du Chien, Wis. Filed May 28, 1919. Serial No. 300,276. 4 Claims. (Cl. 193—16.)



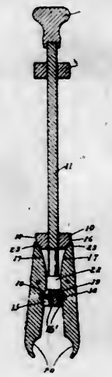
2. A stacker comprising, a frame, a conveyer pivoted adjacent its lower end to said frame, means connected to the upper end of said frame and the upper end of said conveyer for disposing said conveyer in an inclined position, and power transmitting means for said conveyer.

1,346,021. SANITARY FLY CATCHER AND TRAP. RAYMOND J. HARRIS, Camp Travis, Tex. Filed Sept. 8, 1919. Serial No. 322,294. 5 Claims. (Cl. 43—133.)



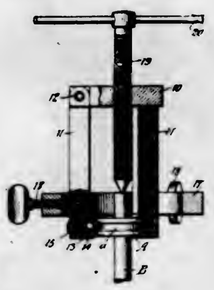
1. A fly trap comprising a receptacle having an entrance opening therein, a hollow frusto-conical member surrounding said opening and a reversely disposed conical closure movable axially of said member for controlling the opening.

1,346,022. FUSE REMOVER AND PLACER. WILLIAM G. HASSEL, Waterbury, Conn. Filed Nov. 23, 1918. Serial No. 263,919. 2 Claims. (Cl. 294—19.)



2. A fuse gripping device comprising a pair of spaced blocks, parallel rods secured to and extending between the blocks, gripping jaws carried by one of the blocks and normally spring pressed into open position, a block receiving the rods therethrough and slidable toward and away from the inner ends of the said jaws, said slidable block being beveled for wedging engagement between the adjacent ends of the jaws for causing closing movement of the jaws, and a rod carried by the slidable block and slidable through the other of the spaced blocks for manual actuating to move said slidable block into and out of engagement with the jaws.

1,346,023. BEARING-PULLER. FRANK JOSEPH HEINRICH, Yakima, Wash. Filed June 24, 1919. Serial No. 306,303. 6 Claims. (Cl. 29—85.)

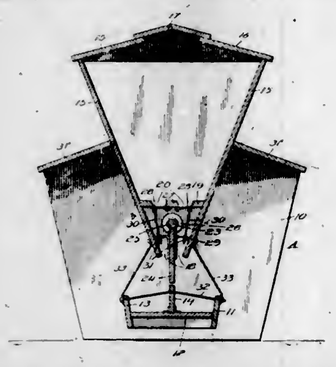


1. A bearing puller including members adapted to be positioned for gripping a bearing, and balls on said members adapted to engage in the race of the bearing; together with means to exert endwise pressure on the element carrying the gripped bearing.

1,346,024. ANIMAL-FEEDER. ORA W. HINER, DANA C. FARNHAM, and ELI A. FARNHAM, Jr., Butler, Ind. Filed Aug. 26, 1919. Serial No. 319,872. 2 Claims. (Cl. 119—53.)

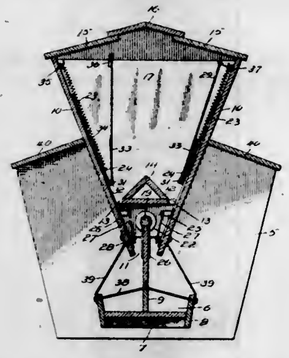
1. A feeder of the character described, comprising a frame adapted to be supported upon a foundation, a bin in the frame and having a lower open end, transverse partitions within the bin to divide the same into independent compartments, a false bottom within the bin elevated above its open lower end and forming discharge slots

adjacent to opposite sides of said bin, a trough beneath the lower open end of the bin and having a central vertical wall, a nose board pivoted in the lower open end of the bin, disposed normally vertical and extended close to



the vertical wall in the trough, and gates swingingly connected to the false bottom for closing the discharge slots and having connection with the nose board, so that when the latter swings in one direction one gate will remain closed and the other automatically opened.

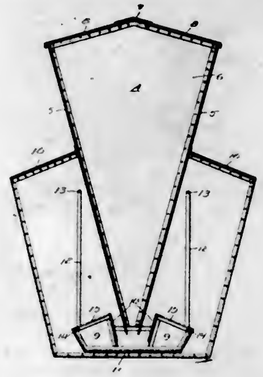
1,346,025. AUTOMATIC STOCK-FEEDER. ORA W. HINER, DANA C. FARNHAM, and ELI A. FARNHAM, JR., Butler, Ind. Filed Aug. 26, 1919. Serial No. 319,873. 7 Claims. Cl. 119—54.)



1. A feeder of the character described, comprising a trough, a container above the trough, means within the container to provide plural discharge openings and deflectors to direct the contents into the openings, a head board swingingly supported beneath said means and actuated from either side of the trough by an animal, whereby the contents of the container will discharge through one opening at one side of the board and the other opening at the opposite side thereof, and duplicate agitator means within the container and operated by movement of the head board.

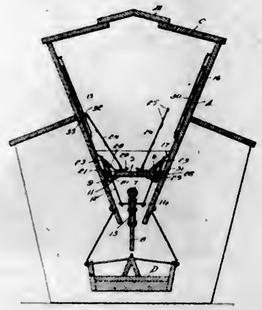
1,346,026. SWINE-FEEDING APPARATUS. ORA W. HINER, DANA C. FARNHAM, and ELI A. FARNHAM, JR., Butler, Ind. Filed Sept. 23, 1919. Serial No. 325,758. 7 Claims. Cl. 119—54.)

1. In a stock feeding apparatus, a feed container having an opening in its bottom, means elevating the container over a foundation or support, a movable trough arranged beneath the open bottom of said container, adapted to receive feed therefrom for access at either side of said container and having nose boards active upon the con-



tainer to dislodge feed therein for its delivery to the trough and also permit animals to seek feed from the latter between the nose boards and the outer walls of said trough.

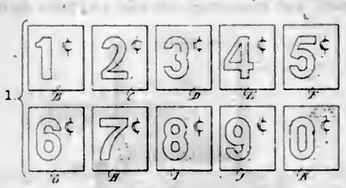
1,346,027. AUTOMATIC ANIMAL-FEEDER. ORA W. HINER, DANA C. FARNHAM, and ELI A. FARNHAM, JR., Butler, Ind. Filed Sept. 23, 1919. Serial No. 325,759. 8 Claims. (Cl. 119—53.)



1. In a feeder of the character described, a trough accessible at opposite sides thereof, a feed container above the trough and open at its lower end, a nose board swingingly supported in the open end of the container immediately above the trough, a false bottom within the container and having discharge openings therein, mouth pieces depending from the false bottom at the discharge opening, swinging closures for said mouth pieces, agitator frames slidably fitted in the container at opposite sides thereof and having extensions working through the discharge openings, connections between the closures and said frames, rake agitators swingingly connected to the frames and movable upon the false bottom, inner agitator members rising from the rake agitators and yieldably supported thereby and connections between the nose board and said closures for permitting alternate opening of said closures on swinging movement of the nose board.

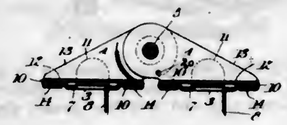
1,346,028. PRICE-MARKER SYSTEM. HERMANN HOPP and LEO HOPP, New York, N. Y. Filed Sept. 15, 1919. Serial No. 323,679. 2 Claims. (Cl. 40—2.)

1. A card for use in price-marking systems, said card being printed on one side with a numeral only and upon its opposite side with a numeral and a designating character, whereby the card is adapted to be used in either the



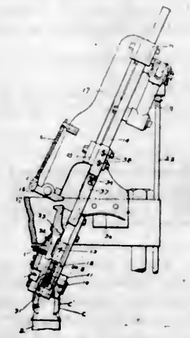
units or tens position of a multiple digit number, said card when used with the designating character displayed identifying the character of the entire number displayed.

1,346,029. HINGE. RICHARD W. HUBBARD, Ashtabula, Ohio. Filed Sept. 2, 1919. Serial No. 321,201. 2 Claims. (Cl. 16—25.)



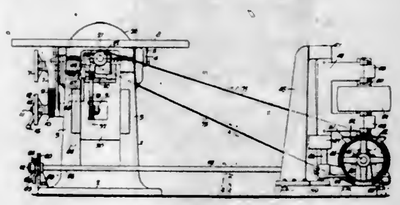
1. In a hinge, the combination of a base plate having a longitudinal central channel extending throughout the length of said plate whereby a raised portion is produced, barbs struck from said channel, a screw hole in said channel, between the barbs, flanges extending from said channel portion and arranged in parallel relation thereto, arms formed integral on the ends of the raised portions of the base plates, and members comprising a body portion, a ledge formed on the lower ends of the channel, arms formed integral on the ends of the body portions and disposed at right angles thereto, side flanges formed in the body portions, and extending throughout the lengths of the body portions and in opposite directions with respect to the arms of the body portions, a pintle for connecting the arms in hinged manner, whereby the body members will rest on the ledge of the channel of the base plates and the flanges of the body members will embrace the parallel flanges of the channel portion.

1,346,030. DOFFER MECHANISM FOR COUNTER-MOLDING MACHINES. AUGUSTE F. JACQUEMIN, Kennebunk, Me., assignor to Rogers Fibre Company, Kennebunk, Me., a Corporation of Maine. Original application filed May 7, 1918, Serial No. 233,031. Divided and this application filed Sept. 17, 1918. Serial No. 254,505. 9 Claims. (Cl. 12—66.)



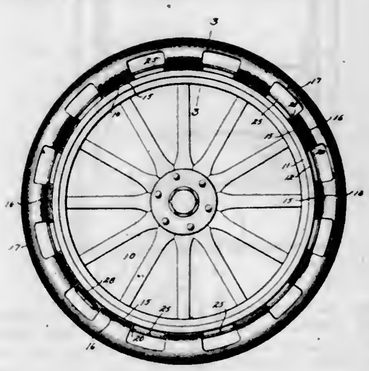
1. In a counter molding machine, a counter doffing mechanism comprising a counter engaging device constructed to engage the flange of a molded counter and operating mechanism therefor arranged to give said device a relatively slow movement to initiate the counter doffing action and thereafter to give the device a greatly accelerated movement in the same general direction to complete said operation.

1,346,031. COMBINATION SAW-TABLE AND SINGLE-SPINDLE SHAPER. NATHAN JOSIAS, Philadelphia, Pa. Filed Jan. 17, 1920. Serial No. 352,057. 5 Claims. (Cl. 144—1.)



1. In a combined saw table and single spindle shaper, the combination with a standard, a table carried thereby, and a frame mounted to slide vertically on one side of the standard, said frame having a pivot pin between the center of and said side of the standard, of a second frame pivotally hung at one end upon said pin, and having its free end provided with a segmental projection, a spindle mounted in bearings on the pivoted frame with its tool carrying end adjacent said pivot, and tiltable therewith through an arc of substantially 90°, and coacting means between the sliding frame and the segmental projection for clamping the latter in place with the spindle in either a horizontal or vertical position.

1,346,032. CUSHION-TIRE. IVAN N. KEIM, Mount Holly, N. J. Filed Dec. 18, 1919. Serial No. 345,734. 6 Claims. (Cl. 152—1.)

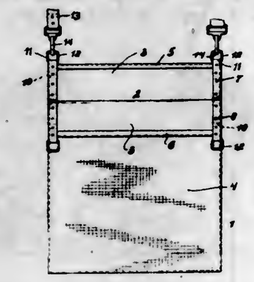


2. A cushion tire for vehicle wheels, comprising spaced flanged seats on the peripheral face of the felly of the vehicle wheel, a tread provided on its inner face with resilient integral spaced blocks seated on the said seats, and retaining means holding the said blocks in the seats.

1,346,033. HARVEST-SACK. JOHN W. KEITH and RICHARD W. WILLIAMS, Hornbeak, Tenn. Filed Jan. 16, 1920. Serial No. 351,756. 1 Claim. (Cl. 150—2.)

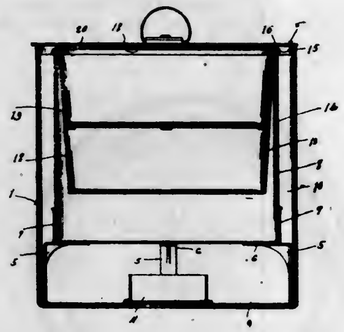
A harvest stack comprising a body and flaps between which is formed a mouth; the said body and flaps being of textile material and the flaps constituting continua-

tions of the side walls of the body, leather straps arranged against the inner sides of the flaps at the side edges thereof and each extending from the transverse edge of one flap to the transverse edge of the other flap and each having a bight at its transverse center and also having outer end portions and bights that project beyond the transverse edges of the flaps, rivets extending through



and connecting the flaps and the straps, other rivets extending through and connecting the major portions of the straps to flaps and the outer end portions of the straps, metallic loops the inner end bars of which are disposed in the said bights of the straps, and a shoulder strap equipped with snap-hooks detachably engaged with the said metallic loops.

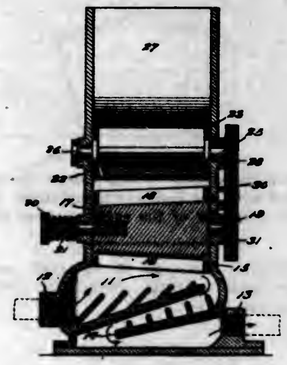
1,346,034. DINNER-PAIL. ROBERT B. KELSO, Seattle, Wash. Filed Dec. 17, 1918. Serial No. 267,200. 1 Claim. (Cl. 220—20.)



A dinner pail comprising an outer receptacle, brackets secured in said receptacle and having horizontal portions arranged in spaced relation to the bottom of said receptacle, an annular collar formed on the horizontal portions, an inner receptacle supported by said portions within the collar, trays supported within the inner receptacle, and covers for said trays and outer receptacle.

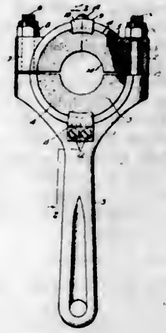
1,346,035. FIRE-EXTINGUISHER. JOHN W. LONGSTRETH, Waynesburg, Pa. Filed Feb. 9, 1920. Serial No. 357,126. 2 Claims. (Cl. 169—15.)

1. A device of the character described comprising a casing including a lower portion provided with water inlet and outlet openings, a substantially cylindrical portion located above and communicating with said lower portion, a rotary drum within said cylindrical portion having its periphery provided with pockets, said casing further including a laterally enlarged portion within and communicating with said cylindrical portion, a pair of feed drums within said last named portion and rotatable in opposite



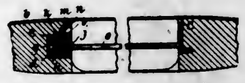
directions, a hopper leading into the top of said last named casing portion, and means for simultaneously rotating said feed drums and said first named drum.

1,346,036. GRINDING-TOOL. PAUL UCLAIR LOVELACE, Clinton, Okla. Filed Feb. 9, 1920. Serial No. 357,252. 2 Claims. (Cl. 51—205.)



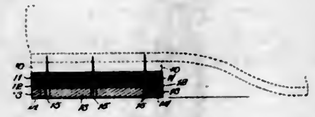
1. A grinding tool, comprising two members, a handle on one member, said members having semicircular recesses therein, grinding stones in the recess, shims between the grinding stones preventing rotary movement thereof in the members, and means secured on the members for preventing lateral movement of the stones.

1,346,037. SHUTTLE. JOHN MCCANN, Paterson, N. J. Filed May 10, 1920. Serial No. 380,075. 3 Claims. (Cl. 139—27.)



1. In combination, with a shuttle bow structure having in one side an interior groove to receive one end of the quill spindle and with such spindle having its said end received in said groove, a screw-threaded bearing device tapped into the opposite side of said structure and having a bearing recess open toward the groove and receiving the other end of the spindle, said device being adjustable screw-fashion in the bow structure.

1,346,038. COMBINATION-HEEL. FRANK J. MCEWAN, Chicago, Ill. Filed Jan. 2, 1920. Serial No. 348,720. 3 Claims. (Cl. 36—35.)



1. A combination heel comprising a wear resisting bottom portion, said bottom portion being formed with a plurality of openings arranged to extend transversely therethrough, a layer of hard rubber disposed above and secured to said wear resisting bottom portion, a layer of soft resilient rubber surmounting said layer of hard rubber and secured thereto, and a plurality of tacks for securing said combination heel to a shoe or similar article, each of said tacks being inserted through one of said openings until the head thereof is substantially flush with the under surface of said layer of hard rubber.

1,346,039. CUFF-LINK. ARTHUR A. MCRAE, Attleboro, Mass. Filed Dec. 3, 1919. Serial No. 342,212. 3 Claims. (Cl. 24—102.)



1. In a separable cuff-link, the combination with a button-member having a post for insertion through the buttonhole of the cuff and a tapered stud projecting therefrom said stud having an extended neck of a length several times its diameter with a conical point at its end, of a second button-member having a post provided with an enlarged socket at its end adapted to receive the stud on the first member with a clearance around its sides, and a spring-detent in the socket adapted to clasp the tapered sides of the stud to hold the parts of the link together while allowing them to play back and forth to a considerable extent and to rock laterally in relation to each other without becoming unclasped.

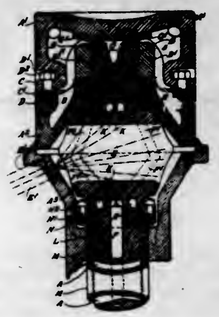
1,346,040. ROWING-GEAR. DANIEL MCRAE, Central Islip, N. Y. Filed Feb. 17, 1920. Serial No. 359,424. 3 Claims. (Cl. 9—26.)



1. In an oar lock, the combination with the stirrup thereof, of anti-friction devices carried thereby and protruding from the inner face thereof, said anti-friction members constituting a bearing surface for directly receiving an oar.

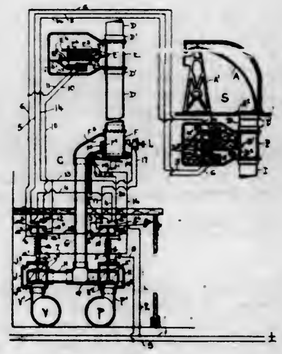
1,346,041. PISTON AND PISTON-ROD FOR INTERNAL-COMBUSTION ENGINES. JOHN CAMPBELL MACCALL MACLAGAN, Glasgow, Scotland. Filed Sept. 16, 1919. Serial No. 324,106. 5 Claims. (Cl. 123—176.)

5. In an internal combustion engine, a piston cylinder, a hollow piston working therein, a piston rod connected to the piston and having, adjacent the piston, a double-core enlargement shaped at one end to the internal contour of the cylinder and at its other end to a counterpart recess in the piston end, said enlargement being apertured to afford an internal combustion space when the piston is at the end of its stroke, in combination with a water-cooling system for the piston comprising a central longitudinal passage in the piston rod, communicating passages in the double-cone enlargement at the end of said rod, radial distributing passages leading therefrom



and conducting the cooling fluid to and from the interior of the piston, a sleeve spaced around the piston rod and affording an annular passage, means for establishing connection between the latter and the interior of the piston, a pipe forming a continuation of the central longitudinal passage in the piston rod, but affording an annular passage around the same, and a passage establishing communication between the interior of the piston rod sleeve and said annular passage around the pipe, substantially as described.

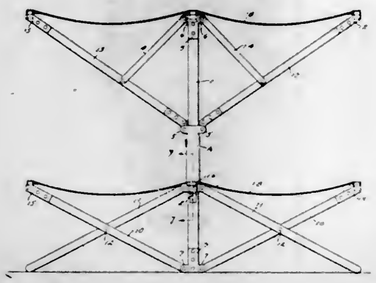
1,346,042. PNEUMATIC-DESPATCH-TUBE APPARATUS. JAMES G. MACLAREN, Harrison, N. Y. Filed July 26, 1915. Serial No. 41,898. 16 Claims. (Cl. 243—10.)



1. In an apparatus of the character described, the combination of a pressure source and a suction source, a single transit tube for the transmission of carriers in either direction from a central station to a substation and from the sub-station to the central station, a valve controlling the passage of air from said transit tube to said suction source, a valve controlling the passage of air from said pressure source to said transit tube, electrically operated means for opening one of said valves to cause air to propel a carrier from the sub-station to the central station, electrically operated means including a device in the path of the traveling carrier for causing such valve to close, electrically operated means to open the other valve

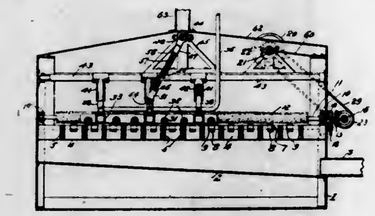
to cause air to propel a carrier from the central station to the sub-station, electrically operated means including a device in the path of the traveling carrier for causing the last-mentioned valve to close, and interlocking means for preventing the opening of one of said valves when the other of said valves is open.

1,346,043. FOLDING CAMP-BERTH. WILLIAM F. MOODY, Denver, Colo., assignor of one-tenth to John P. Moody, Denver, Colo. Filed Nov. 12, 1919. Serial No. 337,391. 6 Claims. (Cl. 5—60.)



1. A device of the character stated, comprising collapsible frames, each frame consisting of a central post, a pair of supporting devices at each side of the post, said supporting devices connected at their lower ends to the post, a second pair of supporting devices at the upper portion of the post connected to the upper end of the post, and a sliding sleeve on the post connected to both pairs of supporting devices.

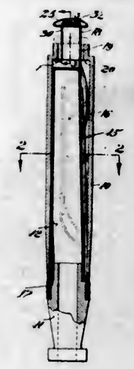
1,346,044. BLOWER AND SUCTION CARPET AND RUG CLEANER. FRANK P. MOORE, St. Joseph, Mo. Filed Feb. 17, 1920. Serial No. 359,237. 9 Claims. (Cl. 15—8.)



1. In an apparatus of the class described, the combination with a frame, of a table carried by said frame, a blower carriage traveling upon said table, said carriage comprising a body provided with rollers and with a nozzle, means for supplying air to said nozzle, posts extending from the body, connecting devices connected to said posts, and means for moving the connecting devices for causing travel of the blower carriage over the table.

1,346,045. PRESSURE-BAR MECHANISM. WILLIAM EDGAR MOORE, Janesville, Wis., assignor to Geo. S. Parker and W. F. Palmer, Janesville, Wis. Filed Apr. 23, 1919. Serial No. 292,113. 4 Claims. (Cl. 120—46.)

4. In a fountain pen, a pressure device of the class described extending rearwardly from the barrel of said pen, said rearward extension beyond the barrel of said pen having a locking member extending into and adapted to engage the barrel to normally hold the pressure device



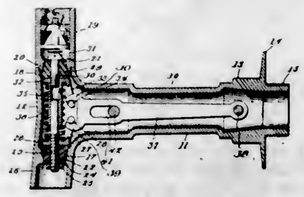
against removal, the locking member being resilient to allow of disengaging it from the barrel to permit withdrawal of the pressure device from the barrel.

1,346,046. CHAIN-FASTENER. CLARENCE AUGUSTUS MOREHOUSE, Lawrence, Kans. Filed Jan. 23, 1920. Serial No. 353,621. 2 Claims. (Cl. 24—241.)



2. A chain fastener comprising a body member, a plurality of spaced hooks carried thereby, bifurcated extremities located at each end of the body member, a bar adapted to contact with the ends of the spaced hooks, a slotted annular extension formed on said bar for said pivotal and sliding engagement with the bifurcation at one end of the body member, an angular extension also located at the opposite end of the bar for removable engagement with the bifurcation at the opposite end of the body member and means for holding said body member and bar against relative movement.

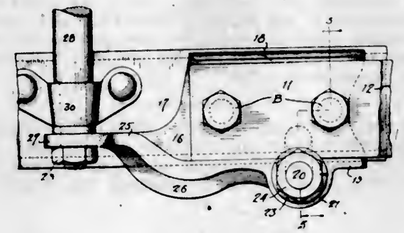
1,346,047. COMBINATION DRINKING-FOUNTAIN AND FAUCET. ARTHUR B. NAFZIGER, Odessa, Wash. Filed June 14, 1919. Serial No. 304,180. 2 Claims. (Cl. 299—9.)



1. A device of the character described comprising a hollow body formed of substantially T-shape and including a shank portion and a head portion, the lower end of said head portion being provided with a valve seat and constituting a faucet discharge, a cup connected with the upper end of said head portion and provided with a valve seat, a valve disposed within each valve seat and normally closing the same, a yoke connected with each valve and provided at its inner end with a transverse lug, a lever disposed longitudinally within said shank portion and

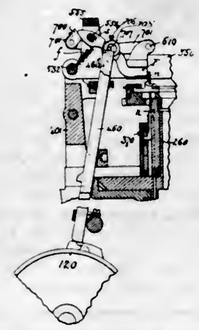
pivoted at one end, a fork on the other end of said lever having arms engaging said lugs, and means for moving said lever laterally whereby to unseat a selected one of said valves.

1,346,048. BRACKET. RICHARD T. NEWTON, New York, N. Y. Filed Apr. 24, 1919. Serial No. 292,474. 5 Claims. (Cl. 293—55.)



1. A bumper bracket comprising a bracket body adapted to receive and rigidly engage a bumper end, a draw-up member engaging the bracket and adapted to pass beneath the chassis side bar and engage the lower flange of the latter together with a strut-like bracket extension arm rigid with the bracket body and engaging a chassis element beyond the end of the bracket body.

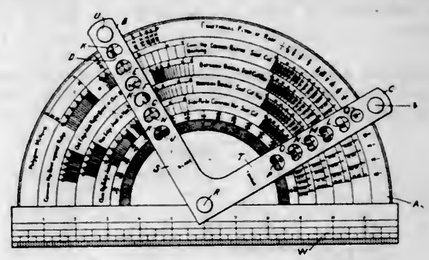
1,346,049. YARN-FEEDING MEANS FOR KNITTING-MACHINES. FRED C. NICHOLSON, Chattanooga, Tenn., assignor to Scott and Williams, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 6, 1919. Serial No. 269,852. 3 Claims. (Cl. 66—12.)



1. A knitting machine having needles and operating means therefor in combination with a yarn finger having a slotted pivotal mounting, adjustable means to move the finger over toward the line of needles on the descent of the finger, and a spring to withdraw the finger, as it is raised.

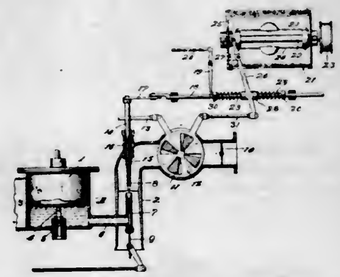
1,346,050. GAGE FOR BEVELS, MITERS, AND THE LIKE. JOHN SHAW MCLUCKIE NICHOLSON, Durham, England. Filed Sept. 6, 1919. Serial No. 322,143. 3 Claims. (Cl. 33—93.)

1. A gage comprising a semicircular scale-plate which has a straight edge along its base-chord and has on one side a series of concentric scales, indicator-arms connected to form a square, the angle of which is pivotally connected to said plate at the center of the concentric scales, pointers on said indicator-arms registering with the graduations of said scales, fence-arms connected to form a square the angle of which is pivotally connected to the other side of the scale-plate about the same center as the



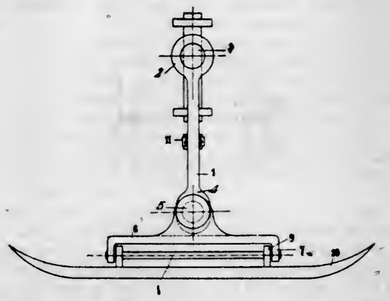
indicator-arms, and means for clamping the indicator and fence-arms to one another and to the scale-plate for the purposes specified.

1,346,051. AUTOMATIC GAS-CONTROLLER. ERNEST THEODORE OFELDT, Spring Lake, N. J., assignor of one-half to Robert A. Chesebrough, Spring Lake, N. J. Filed Sept. 30, 1919. Serial No. 327,548. 5 Claims. (Cl. 123—100.)



1. The combination with a carbureter, of a gasolene feed valve, an air valve, a pair of air intake shutters for said air valve, automatic means for controlling the position of the gasolene feed valve and the movement of one of the shutters by the speed of the engine, and manually operated means for moving the gasolene feed valve and moving the other of said shutters.

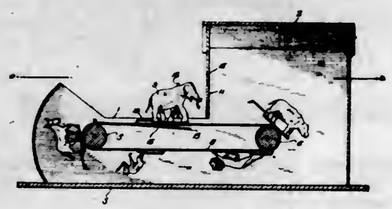
1,346,052. RUNNER-CARRIER FOR MOTOR-VEHICLES. JOCELYN EMILE OLLIVIER, St. Gervais-les-Bains, France. Filed Sept. 5, 1917. Serial No. 189,767. 8 Claims. (Cl. 280—14.)



2. An attachment to be substituted for an automobile wheel, comprising a runner carrier: a runner pivotally connected with said carrier to rock relatively thereto about

both its transverse and its longitudinal axis; means for attaching the carrier to the adjacent steering spindle; and a stop device directly associated with said carrier for preventing it from turning about the axis of the spindle.

1,346,053. TOY. ALBERT PEDEN, Johnstown, Pa. Filed Apr. 12, 1920. Serial No. 373,208. 1 Claim. (Cl. 46—40.)



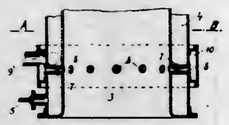
A toy comprising a receptacle, rollers journaled in the receptacle, an operating handle for one of the rollers, an endless band around the rollers, toy figures arranged in pairs upon the band, contact members upon the band, a pivoted rod having offset ends upon one of the sides of the receptacle and one of the said offset ends being disposed within the path of engagement between the contact members, and the other offset end passing through an opening in the side of the receptacle, a normally vertically disposed figure pivotally secured to one of the sides of the receptacle, and said figure having an offset finger disposed within the path of contact of the last mentioned offset end of the rod.

1,346,054. METHOD OF RIVETING. HARRY R. PENNINGTON, Kansas City, Mo., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Oct. 19, 1918. Serial No. 258,806. 7 Claims. (Cl. 219—2).



1. A method of riveting which consists in placing a rivet in riveting position, heating said rivet by local application of an electric arc, and depositing metal upon and around said rivet in close proximity to one of said members.

1,346,055. FURNACE FOR BURNING REFUSE. WALTER PIERNAY, Stettin, Germany, assignor to Stettiner Channotte-Fabrik Aktiengesellschaft vormals Didier, Stettin, Germany. Original application filed May 16, 1914, Serial No. 839,129. Divided and this application filed Dec. 27, 1915. Serial No. 68,760. 2 Claims. (Cl. 110—8.)



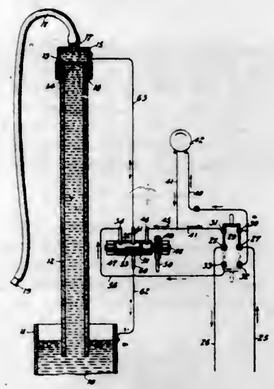
1. In a furnace for burning refuse, the combination of a furnace shaft, a cooling jacket surrounding the same, and a plurality of air-feeding nozzles passing through the jacket and surrounding and communicating with the shaft, each said nozzle having an opening therethrough in the form of two truncated cones, the longitudinal axes of which coincide, and with the narrower ends thereof in contact, to provide a smooth air passage through the nozzle.

1,346,056. DIAMOND-POINT CUTTING-TOOL. PAUL POULAIN, Paris, France. Filed June 2, 1920. Serial No. 386,086. 3 Claims. (Cl. 29—96.)



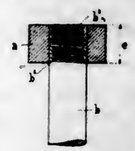
1. A cutting tool comprising a shank, two jaws at the forward end of said shank, a diamond mounted between said jaws, a plate forming a rear abutment for said diamond, and means for clamping the jaws upon the diamond and the abutment plate.

1,346,057. APPARATUS FOR MEASURING OHMIC RESISTANCE OF LIQUIDS AND SOLUTIONS. TIMOTHY HENRY REARDON, North Adams, Mass. Filed Nov. 8, 1918. Serial No. 261,672. 4 Claims. (Cl. 175—183.)



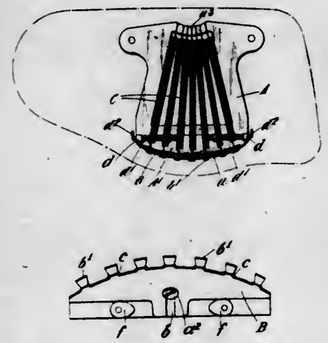
1. An apparatus for measuring ohmic resistance of liquids and solutions, comprising a vessel of conductive material and adapted to contain the liquid or solution, a tube of non-conducting material having one end inserted in the said liquid or solution and adapted to be filled with the same, conducting material in contact with said liquid or solution at the other end of the tube, an electric circuit connected at one end with the said vessel and at its other end with the conducting material in contact with the liquid or solution, and means for measuring the voltage or potential difference of the said current in passing through the liquid or solution.

1,346,058. PROCESS FOR THE MANUFACTURE OF BOLTS. GABRIEL ROBERGEL, Montreuil-sous-Bois, France. Filed Aug. 24, 1918. Serial No. 251,273. 3 Claims. (Cl. 85—9.)



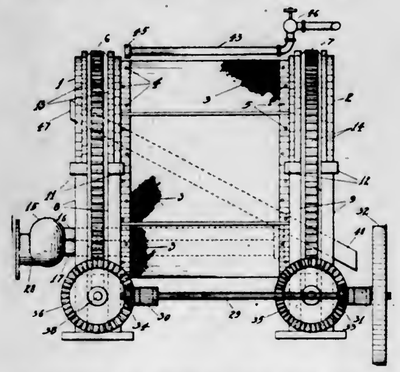
3. A bolt having a shank and an independent bolt head compressed thereon, the head end of the shank having a part screw threaded to the right, and an adjacent part screw threaded to the left, to form an interlocking engagement with the bolt head when the latter is compressed thereon.

1,346,059. FOOT-ARCH SUPPORT. WILLIAM HENRY ROBSON and ALFRED POWELL, London, England. Filed Dec. 29, 1919. Serial No. 348,121. 9 Claims. (Cl. 36—71.)



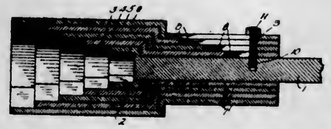
1. A foot-arch support comprising a base member having one side higher than the other, and a support comprising a number of readily and individually removable spring members extending between and secured to the two sides of the base member.

1,346,060. COLANDER FOR DEFECATED CANE-JUICE. RAMON RODRIGUEZ Y RODRIGUEZ, Central Mercedes, Cuba. Filed June 28, 1919. Serial No. 307,411. 2 Claims. (Cl. 210—199.)



1. A colander for defecated cane juice, comprising a drum; a pair of supports for said drum, the upper surfaces of which are of semi-circular section, serving as surface bearings to the drum; flanges secured to the upper ends of the supports and semi-circular hoops or bands secured to the said flanges, which clasp the upper half of the drum and avoid any displacement of same, due to rotation.

1,346,061. WRENCH. SIDNEY CLARENCE ROSENBERG, New Haven, Conn. Filed Feb. 24, 1920. Serial No. 360,749. 3 Claims. (Cl. 81—185.)



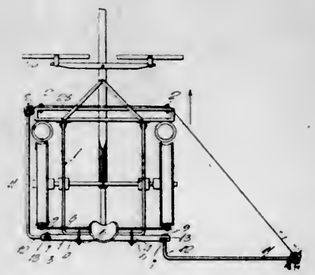
3. A wrench, comprising a handle, a nut engaging socket on one end of the handle, a series of telescoping nested socket members on the handle and on the first-mentioned socket, said series of socket members increasing in diameter and in length in regular succession, telescoping sleeves on the series of socket members movable on the handle, said sleeves having longitudinal slots therein, and a set screw projecting through the slots and screwed into the handle, said slots of varying lengths, the slots of the respective sleeves increasing in length in relative ratio from the inner to the outer sleeve.

1,346,062. PROCESS OF TREATING METALS. WILLIAM E. RUDER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 10, 1918. Serial No. 244,166. 4 Claims. (Cl. 91—70.1.)



1. The process of treating metals to render them inoxidizable at high temperatures which consists in diffusing into the metal another metal which forms an inoxidizable alloy with it, and then heating the metal under non-oxidizing conditions in the presence of the other metal to form the inoxidizable alloy at the surface.

1,346,063. MARKER FOR PLANTERS. ORVA L. SHADFORD, Los Angeles, Calif. Filed Dec. 15, 1919. Serial No. 345,065. 6 Claims. (Cl. 97—83.)

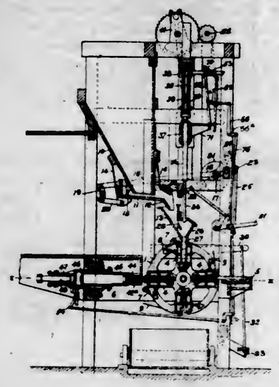


1. A marker attachment for planters comprising a marker carrying arm, an attaching member including upper and lower bearings, said upper bearing being provided with an elongated slot and said lower bearing being provided with an aperture disposed beneath said slot, and a T-member carried by the inner end of the marker carrying arm, and adapted for disposition between the upper and lower bearings of the attaching member, the lower portion of the T-member being adapted to rotate in said aperture and the upper portion being rotatable and slidable in said slot.

1,346,064. MACHINE FOR CHARGING SHELLS. JORGEN REMMEN, Pittsburgh, Pa., assignor to George T. Ladd Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 20, 1918. Serial No. 218,286. 10 Claims. (Cl. 86—20.)

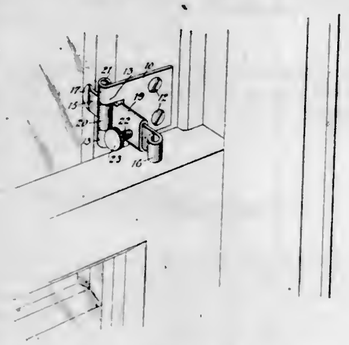
1. In a machine for charging shells, the combination of a plurality of shell holders, a plurality of cylinders and

rams, the latter being subjected to fluid pressure and a reciprocating cross-head movable relative to the cylinders



and adapted to move the rams away from the holders and against the fluid pressure.

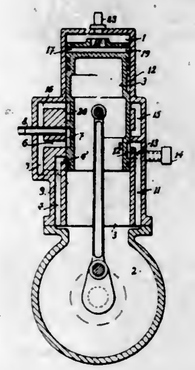
1,346,065. WINDOW-LOCK. DAVID SPIVAK, New Haven, Conn. Filed Oct. 22, 1919. Serial No. 332,374. 4 Claims. (Cl. 292—67.)



2. A window lock comprising a face plate adapted to be fixedly mounted on a window stile, said face plate having hinge knuckles extending in service beyond the edge of said stile, said knuckles being spaced apart to form a recess therebetween; a hinge plate pivotally mounted upon said face plate between said knuckles, said hinge plate embodying a slide member, a bolt mounted in said member to pass through said recess to be held thereby in perpendicular relation to said face plate; and a knurled clamp screw provided to clamp the bolt in inwardly disposed or outwardly disposed relation in the slide.

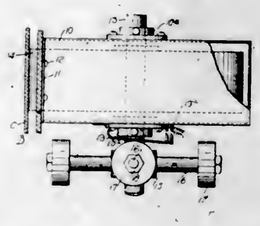
1,346,066. TWO-STROKE-CYCLE INTERNAL-COMBUSTION ENGINE. VICTOR SPUHLER, Rothkreuz, Switzerland. Filed Feb. 11, 1916. Serial No. 77,769. 1 Claim. (Cl. 123—73.)

An internal combustion engine comprising a cylinder open at one end, a crank case at and open at said end of the cylinder so that communication is established between them, a piston in the cylinder, and provided with a chamber opening into said open end of the cylinder and also into the crank case, said piston having a transverse passage near its inner end, also having an opening at its inner end communicating with said passage; and being further provided on its exterior with two pairs of spaced passages, said cylinder having a fuel inlet, and a passage leading to said crank case, which inlet and passage are placed in communication with each other by one of said passages of the piston, when the latter is in instroke position, said cylinder having exhaust ports closed by the piston when the latter is in such position, and being further provided with an air inlet; a pair of communicating passages which are put in communication with the air



inlet and the interior of the crank case, cylinder and piston by one of the passages of the piston when the latter is in such position; said cylinder also having a passage leading therefrom to the interior of the crank case, and put in communication therewith by the other passage of the piston when the latter is in outstroke position, the transverse passage of the piston being in communication with the passages of the cylinder when the piston is in such position.

1,346,067. SPEED-OPERATED CIRCUIT-CLOSER. FRANK EARL TOUCHY, Galveston, Tex. Filed July 3, 1919. Serial No. 308,398. 2 Claims. (Cl. 200—52.)

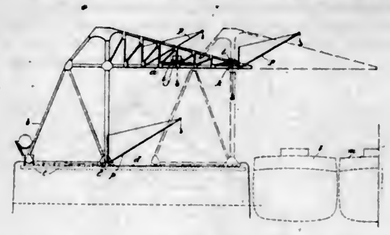


1. An attachment of the class described including a shaft, a friction pulley on said shaft, and adapted to be driven by engagement of a belt, radial arms on said shaft, rollers loose on said arms to be maintained in an outer position under centrifugal force and adapted to gravitationally assume an inner position when an arm is at the top of the shaft and in the absence of centrifugal action, and a circuit closer controlled by a roller when in the inner position.

1,346,068. CRANE. WILLIAM STEAINS VAUGHAN, Newcastle-upon-Tyne, England. Filed Jan. 24, 1920. Serial No. 353,700. 3 Claims. (Cl. 212—74.)

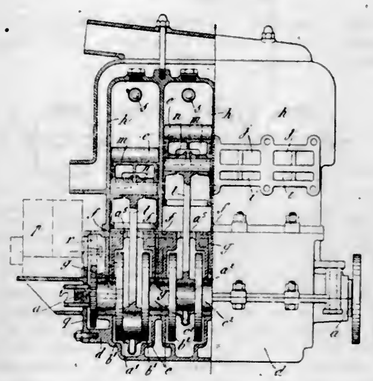
1. In a crane, the combination of a vehicular frame comprising a pair of parallel cantaliver members a traveler

mounted for movement on said cantaliver members in the direction of their extension said traveler comprising



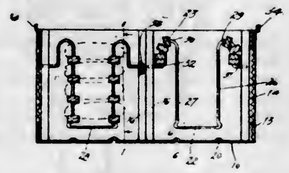
a transversely movable member, and a crab carried by said transversely movable member.

1,346,069. MULTICYLINDER TWO-STROKE MOTOR. MARCEL ACHILLE VIOLET, Levallois-Perret, France. Filed Nov. 21, 1917. Serial No. 203,195. 2 Claims. (Cl. 123—73.)



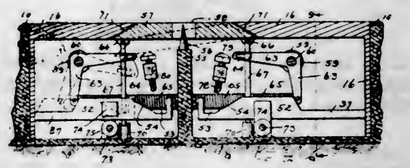
1. In a multicylinder engine comprising a crank casing, partitions dividing the casing into compartments, a crank shaft extending through the compartments with a crank in each compartment, a cover for each compartment having a piston rod opening, oil collecting grooves formed in the upper faces of the cover beneath the lower end of the piston, oil ducts extending from said grooves to the shaft-bearings and means to vent gases from each compartment through the piston rod opening and the interior of the piston into the explosion chamber.

1,346,070. SEED-CORN CABINET AND DRIER. OLE G. VOLD, Forest City, Iowa. Filed July 16, 1919. Serial No. 311,378. 4 Claims. (Cl. 34—26.)



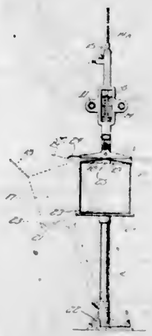
3. A seed corn cabinet and drier, having sections formed with a bottom, end members and a side wall, said sections being designed to be locked together side by side with their open sides adjacent to each other, vertical corner members within each of said sections, spaced resilient guide members comprising vertical spaced up-rights, having a horizontal portion at their lower ends, and inverted U-shaped members at their upper ends; the free end of said inverted U-shaped members being fixed to said vertical upright corner members; corn rests comprising slats, slidably mounted on said guides, and outwardly and upwardly extending flange on said side wall forming a guide whereby sections may be plated one upon another, the bottom of one forming a cover member for the other.

1,346,071. SPEED-CONTROL DEVICE. OLE G. VOLD, Forest City, Iowa. Filed Jan. 24, 1920. Serial No. 353,896. 42 Claims. (Cl. 264—1.)



1. In a device of the class described, means mounted in the road for injuring a tire, and mechanism adapted to be operated by a rapidly moving vehicle for making said means operative.

1,346,072. SEALING-MACHINE. EMERY L. WALKER, Milwaukee, Wis. Filed July 16, 1919. Serial No. 311,174. 10 Claims. (Cl. 93—2.)

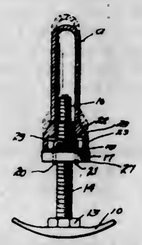


1. In a sealing machine of the character described the combination with a pair of platens adapted for box end sealing purposes, the box structure being held in a preparatory position prior to sealing, and means carried by said machine adapted when said box structure is in a preparatory position to hold a box flap in an intermediate position.

1,346,073. VALVE-CAP FOR PNEUMATIC TIRES. RAY P. ADAMS, Lohrville, Iowa. Filed Aug. 25, 1919. Serial No. 319,843. 3 Claims. (Cl. 152—12.)

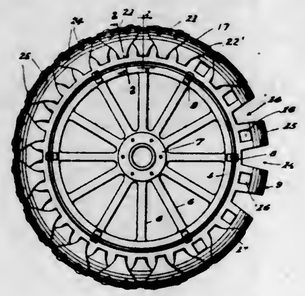
1. In a device of the class described, a casing having external screw threads thereon, a washer having a central opening therein threaded to coact with the threads of the casing, wires of resilient material having one end secured into the washer, and central portions bowed to form a hook member and their other ends curved in the reverse direction relative to the curve of the hooked portions, a cap member having a central, longitudinal opening therein adapted to receive the extending end of the casing and an

enlarged recess adjacent to the open end of the cap, and pins fixed into said cap and extended into the recess,



whereby said pins may engage the bent portions of the wires to hold the cap from movement relative to the washer.

1,346,074. TIRE FOR VEHICLE-WHEELS. LLOYD S. ATKINSON, Los Angeles, Calif. Filed Oct. 30, 1917. Serial No. 199,292. 4 Claims. (Cl. 152—8.)

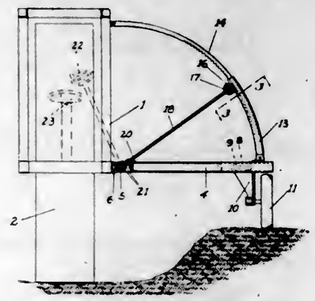


3. A spring tire construction, comprising annular metallic side members secured together, said members adapted to be detachably secured upon the felly of a vehicle wheel, each of said side members having cutaway portions equally spaced apart around its entire circumference, a plurality of spring members mounted on said side members, one at each of the cutaway portions of said side members, and other spring members detachably mounted on said side members and overlapping the first named spring members.

4. A spring tire construction, comprising annular metallic side members, said members adapted to be detachably secured upon the felly of a vehicle wheel, each of said side members having cutaway portions equally spaced apart around its entire circumference and forming substantially semicircular spring tongues, each of said tongues being provided with an aperture, a plurality of spring members having locking tongues mounted on said side members, one at each of the cutaway portions of said side members, and a plurality of other spring members having locking tongues passing through the apertures formed in the semi-circular spring tongues to lock the same thereto.

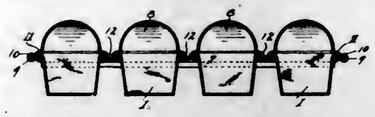
1,346,075. DITCH-DIGGER. ROBERT A. BAYLES, Stockton, Calif. Filed Apr. 24, 1919. Serial No. 292,260. 3 Claims. (Cl. 37—29.)

1. In combination with a ditch digger having a digger wheel, a horizontal frame pivotally mounted on a shaft to one side of the wheel at right angles thereto, a supporting wheel mounted to the frame at the outer end thereof, braces adapted to telescope mounted to the supporting wheel frame and to the frame of the ditch digger and means operable from the driver's seat of the digger where-



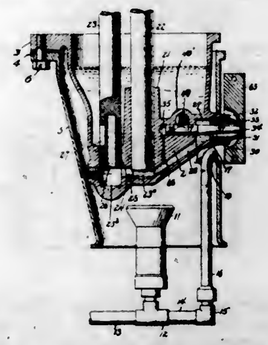
by the relative telescopic position of the brace may be adjusted at will, the braces being concentric with the pivotal shaft of the supporting wheel frame.

1,346,076. BAKING APPARATUS. GEORGE W. BOLLINGER, Columbus, Ohio. Filed Feb. 1, 1919. Serial No. 274,493. 1 Claim. (Cl. 53—6.)



A baking apparatus comprising a plurality of separate pan members rigidly held together in spaced relationship, a hinged cover for said pan members provided with a number of cavities of semi-circular cross sectional formation, said cavities being disposed when said cover occupies its closed position to register with said pan members, divisional ribs integrally formed with said cover and situated between the cavities thereof, said ribs being adapted to enter between said pan members so as to maintain the relatively separated state of the latter, rolled edges formed upon said pan members to provide a seat for said cover, and flanges formed upon the marginal edges of said cover and arranged to overlap and seat upon the rolled edges of said pan members.

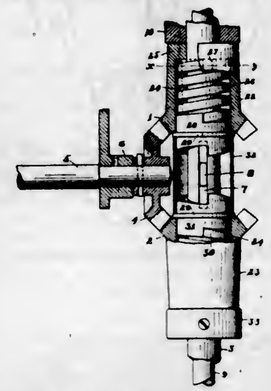
1,346,077. MELTING-POT AND METAL-INJECTING MECHANISM FOR TYPE-CASTING MACHINES. JAMES THOMAS CARTER, Baltimore, Md. Filed Apr. 13, 1920. Serial No. 373,680. 13 Claims. (Cl. 22—71.)



5. In a metal injecting mechanism for type-casting machines the combination with a melting pot, of a choker

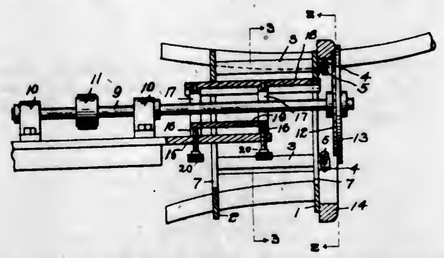
valve controlling the exit of metal from said pot, and mechanism for governing the movement of said choker valve, including an operating spindle rotatably mounted in said melting pot and engaging said choker valve, a segmental gear carried by said spindle and a cam controlled rack meshing with said gear.

1,346,078. SHOCK-ABSORBING CLUTCH. FORREST J. COUCH, Rochester, N. Y., assignor to Rochester Washing Machine Corporation, Rochester, N. Y. Filed Sept. 19, 1918. Serial No. 254,830. 6 Claims. (Cl. 192—9.)



5. A device of the character described comprising a shaft, a clutch member mounted to turn about the shaft, a driven member mounted to turn about the shaft, one of the last two named parts being provided with a chamber closed by the other part, a helical spring surrounding the shaft and forming a driving connection between the clutch member and the driven part and expansible into frictional engagement with the walls of the chamber, and a second clutch member driven by the driving member and movable into and out of connection with the first named clutch member.

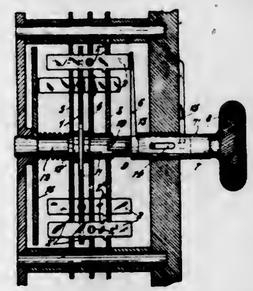
1,346,079. RABBETING APPARATUS. FRANK A. DANIELS, Pittsburgh, and GEORGE SCHUSTER, Carrick borough, Pa. Filed June 27, 1919. Serial No. 307,195. 4 Claims. (Cl. 144—136.)



1. A centering device for use in cutting rabbets, comprising a frame provided with a plurality of radial adjustable clamping members for attachment to the article being rabbeted, the inner periphery of said frame being of the contour of periphery of the rabbet to be cut and arranged to contact with and move on a support adjacent a rabbeting saw.

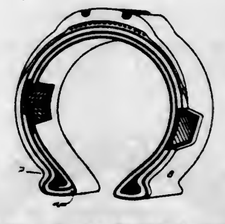
1,346,080. KEYLESS LOCK. JOSEPH DE LEEUW, The Hague, Netherlands. Filed Feb. 28, 1920. Serial No. 362,134. 6 Claims. (Cl. 70—54.)

1. A keyless lock comprising a key-plate controlling the movement of a locking bolt, a plurality of elements co-operating therewith, and adapted to be pressed in in a direction perpendicular to the key-plate, and means adapted



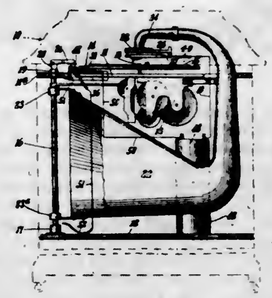
to move the key-plate, said means including a member common to all of said elements adapted to press them in.

1,346,081. TIRE. CLARENCE J. DROPE, Minneapolis, Minn. Filed Feb. 8, 1919. Serial No. 275,903. 4 Claims. (Cl. 152—13.)



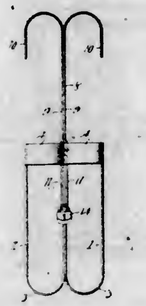
4. As an article of manufacture a circular bead core for a tire having a general triangular shaped cross section and having a recess formed in one of its faces to receive the free end of a tire cord.

1,346,082. STOP MECHANISM FOR TALKING-MACHINES. RAYMOND DUNCAN, New York, N. Y. Filed Apr. 21, 1915. Serial No. 22,776. 20 Claims. (Cl. 74—46.)



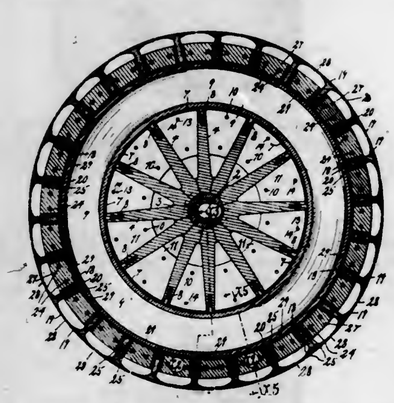
1. In a machine of the character described, in combination, a rotatable record support, a record thereon, means for operating the support, a sound-box comprising a plurality of parts one of which is movable with respect to the other thereof, and a brake mechanism, certain of said parts of said sound-box being operatively connected to the brake mechanism and being operable by the record for controlling the operation of the brake mechanism to arrest the movement of the record support, substantially as specified.

1,346,083. TIRE-HOLDER. AUGUST FRANK ENGEL, Defiance, Ohio. Filed Sept. 5, 1919. Serial No. 321,820. 4 Claims. (Cl. 224—29.)



1. A tire holder, comprising a tire receiving frame having normally vertical and normally horizontal portions, a holding member pivotally connected to one side of the center of the said horizontal portions, and having one end adapted to be transversely positioned over the upper portion of a tire in the frame.

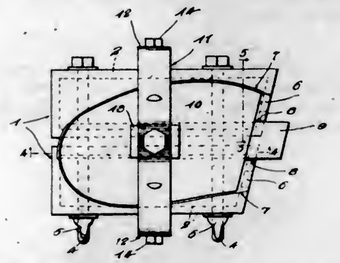
1,346,084. AUTOMOBILE-WHEEL. EPHRAIM W. FAIRBANKS, San Diego, Calif. Filed Apr. 15, 1919. Serial No. 290,307. 1 Claim. (Cl. 152—31.)



In a wheel, an annular resilient cushion on the rim of the wheel; outer annular flanges secured to the wheel and extending beyond said cushion; bearings secured between said flange extensions; segmental tread members arranged outside of the periphery of the annular flanges and provided with inward extensions slidably mounted in said bearings, said inward extensions having segmental plates secured thereto and adapted to bear on the resilient cushion for reciprocating said tread members; and blocks secured between said bearings and said flange extensions, said blocks being adapted to reinforce the walls of the bearings and to space the flange extensions a definite distance apart and also to restrict the outward movement of the tread members by the contact of the blocks with said plates.

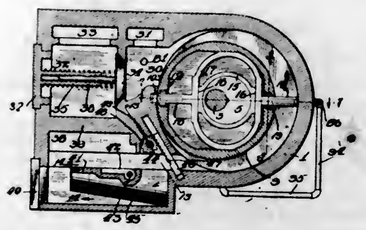
1,346,085. VULCANIZER. WILLIAM FISHBAUGH, Newark, Ohio. Filed June 23, 1919. Serial No. 306,175. 10 Claims. (Cl. 18—17.)

2. A device of the character described comprising a pair of spaced heater sections each having a chamber for the reception of a heating means, said sections having a sole receiving recess, said sections having a pair of transversely alined longitudinally extending grooves in the



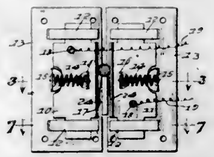
outer opposite sides of said sections, and means connecting the sections, said means having portions received in said grooves to permit relative longitudinal movement of said sections.

1,346,086. HYDRAULIC TRANSMISSION. CARLYLE B. FUNK, Chicago, Ill. Filed June 5, 1916. Serial No. 101,737. 21 Claims. (Cl. 60—53.)



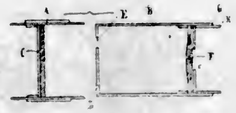
1. In a fluid power transmission device, a driving power element for maintaining a flow of fluid, a driven power element to be driven by the flow of fluid, a unitary casing incasing said driving and driven elements and cored out on its interior to afford communication therebetween for passage of the fluid, and slidable means for controlling the quantity of fluid passing through the device to vary the speed transmitted.

1,346,087. LOCK-OPERATED CIRCUIT-CLOSER. WALTER B. GARRETT and HARRY M. HOFFMAN, Caruthersville, Mo. Filed Feb. 7, 1919. Serial No. 275,627. 2 Claims. (Cl. 200—55.)



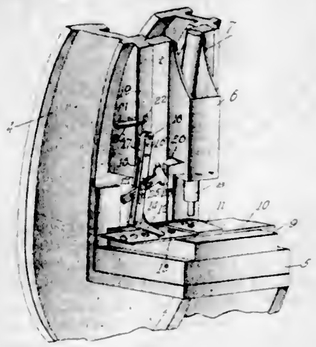
1. As an article of manufacture a lock-operated circuit closer for hotel doors and the like having a base plate adapted for arrangement under the escutcheon plate of a door lock and having upstruck guides, contact plates slidably mounted in said guides and provided with binding posts for circuit wire connections, said plates forming circuit terminals and being provided with deflected key guiding flanges disposed in obstructing relation with the keyhole of the door lock, and yielding means for retaining said contact plates in their normal positions.

1,346,088. EXPOSURE-METER. MARIE LÉON GODEFROY, Paris, France. Filed Aug. 1, 1919. Serial No. 314,789. 3 Claims. (Cl. 88—23.)



1. A photometer, comprising front and rear parts, one of which is rotatable while the other is held stationary; a translucent screen carried by the front part and divided into a larger number of equal sectors of regularly-increasing opacity and of small angularity; and a disk carried by the rear part and provided with a pair of juxtaposed radial slots which are caused to travel across the successive sectors during the movement of the rotatable part until a point is reached in the course of such rotation when one of the slots disappears from vision while the other slot still remains faintly visible.

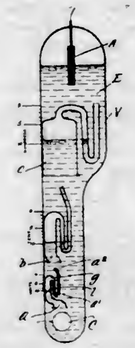
1,346,089. FEEDING DEVICE FOR PUNCH-PRESSES. IVAR S. HASSELSTROM, Chicago, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind., a Corporation of Indiana. Filed Sept. 23, 1918. Serial No. 255,248. 7 Claims. (Cl. 164—88.)



1. A feeding device for punch presses comprising a lever, a feed-pawl carried by the lever and adapted to directly engage a transverse shoulder on the material to advance it from its antecedent progressive position, said shoulder being produced by the press-die, an adjustable cam on said lever and means operated in synchronism with the punch press for engaging the cam and operating the feed-pawl.

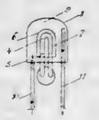
1,346,090. ELECTROLYTIC METER. HENRY STAFFORD HATFIELD and GEORGE HOOKHAM, Birmingham, England. Filed June 2, 1919. Serial No. 301,301. 2 Claims. (Cl. 171—266.)

2. In combination with an electrolyte contained in a vessel, a cathode at the lower end thereof and an anode at the upper end of the vessel, of a series of graduated self-emptying siphons of tubular form open at both ends and flared at the lower end and immersed in the electrolyte between the cathode and the anode so that gas liberated from the cathode is ultimately delivered directly to the anode, and the capacities of the siphons being such



that the indication of each siphon corresponds to an integer of the number or numbers expressing the measured quantity.

1,346,091. METHOD OF DRYING PATENT-LEATHER. ERNST HINTZ, Wiesbaden, and HEINRICH SCHULZ, Worms, Germany. Filed Feb. 5, 1918. Serial No. 215,554. 2 Claims. (Cl. 34—24.)



1. The method of drying patent leather, which consists in subjecting it to the action of ultraviolet rays all above a minimum wave length of 200 micromillimeters; substantially as described.

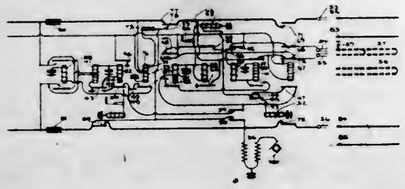
1,346,092. ARTIFICIAL-LIMB LOCK. LYNUS E. HULLINGER, Brooklyn, N. Y., assignor to Pomeroy Company, New York, N. Y., a Corporation of New York. Filed Aug. 5, 1919. Serial No. 315,420. 5 Claims. (Cl. 3—12.)



1. An artificial limb lock, including an upper arm, a forearm associated with said upper arm, means for locking such forearm with respect to the upper arm in any

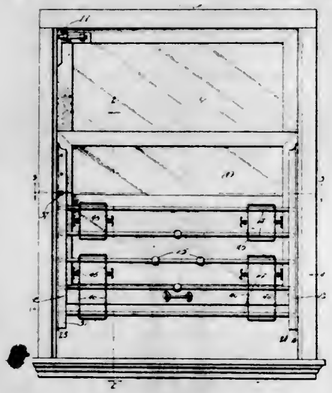
number of positions, operating means extending from one of such arms whereby to actuate such locking means, a shoulder strap associated with the shoulder of the wearer for supporting the upper arm, a strap adjustably secured to such shoulder strap, and a hook provided with an outwardly-sidewise, and upwardly-extending end adapted to engage such operating means.

1,346,093. AUTOMATIC TELEPHONE SYSTEM. EMIL JACOBSEN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 4, 1918. Serial No. 232,616. 13 Claims. (Cl. 179—18.)



1. In a telephone system, an automatic switch, contacts accessible to said switch, means for operating said switch and for causing it to rotate over said contacts, ground connections for certain of said contacts, means in the switch controlled by the ground on said contacts when connection is made therewith, for stopping the rotation of said switch, and means for then operating the switch in response to a series of impulses corresponding to a digit of the called number before the switch is released.

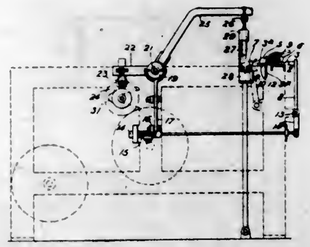
1,346,094. WINDOW-GUARD. ANGELO JOSLER, Chicago, Ill., assignor of one-half to Franklin P. Smith, Chicago, Ill. Filed Mar. 1, 1919. Serial No. 280,118. 12 Claims. (Cl. 189—79.)



12. A window guard comprising supporting members, horizontal rods extending therebetween and removably seated therein, means under the control of the lower sash of the window for locking said rods in said supporting members, and reinforcement members freely and slidably mounted on said rods, each reinforcement member connecting a plurality of rods.

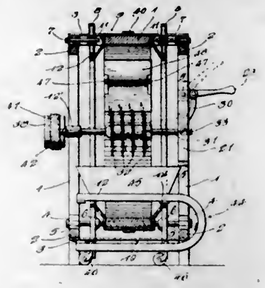
1,346,095. WEFT-SPOOL CHANGER FOR WEAVING-LOOMS. ALBERT GEORG KOECHLIN, Basel, Switzerland. Filed May 1, 1919. Serial No. 294,030. 4 Claims. (Cl. 139—85.)

1. In an automatic weft replenishing loom, an oscillating lay, a shuttle arrangement, a pusher for introducing a full weft spool into the empty shuttle, said pusher being movably mounted on the lay so as to be capable of being lowered thereon, an actuating arm for the pusher, arranged in coöperative relationship therewith, an independent device for automatically operating the said ac-



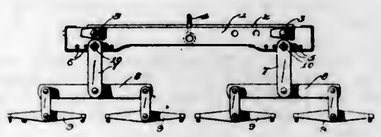
tuating arm, weft failure detecting means to set said operating device into operation when the weft fails, said operating device having coöperating means for determining the operation for said actuating arm, substantially as and for the purpose described.

1,346,096. MEAT-CHOPPING MACHINE. GEORGE REED NAPIER, Cleveland, Ohio. Filed Oct. 23, 1919. Serial No. 332,642. 12 Claims. (Cl. 17—19.)



7. A device of the class described comprising a rotating hollow drum, rotating cutters operating within said drum against the curved surface thereof, and means for varying the angularity between said cutters and the direction of rotation of said drum.

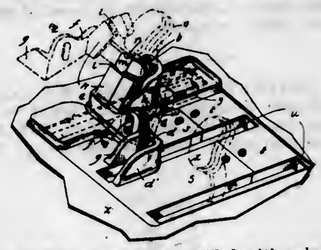
1,346,097. EQUALIZER. JAMES M. ELLIS, Canton, Ill. Filed Sept. 9, 1919. Serial No. 322,634. 2 Claims. (Cl. 21—78.)



1. An equalizer comprising a plurality of parallel beams rigidly connected together, a clevis connected to one of said beams only, and a swingle-tree support connected to each of the ends of the other beam only.

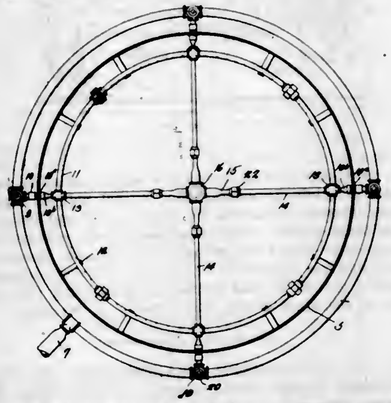
1,346,098. AUTO-PEDALS LOCK. FRANK P. MAIZE, Portland, Oreg. Filed Nov. 4, 1919. Serial No. 335,773. 9 Claims. (Cl. 70—126.)

8. In an auto lock, the combination of a base provided with a lug adapted to be inserted in the slot provided for the clutch-pedal in the dash floor plate, a flange-abutment on the base adapted for embracing one side of the shank of the clutch-pedal, a strap hinged to said flange-abutment adapted for embracing the opposite side of said clutch-



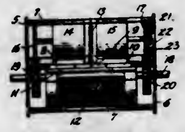
pedal, one of the parts being provided with a leg having its head-end adapted for bearing against the head of the clutch-pedal when the latter is in its neutral position, and means for locking the strap in its closed position.

1,346,099. FIRE-EXTINGUISHING DEVICE. WILLIAM HARVEY BYRD, Sour Lake, Tex. Filed Jan. 6, 1920. Serial No. 349,720. 2 Claims. (Cl. 169—4.)



1. In a fire extinguishing apparatus, a tubular ring at the bottom of the tank exteriorly thereof, risers extending therefrom, radially extending pipes connected to the risers and extending crosswise of the tank near the top, a hollow spider to which the pipes are connected, the said pipes having perforations therein, a sprinkler ring connected to the pipes within the tank, a vertically disposed perforated pipe connected to the center of the spider and radiating sprinkler pipes connected to the bottom of the vertically disposed perforated pipe.

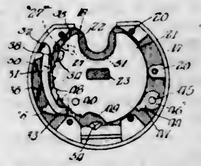
1,346,100. REGISTERING APPARATUS. GEORGE G. GROWER, Ansonia, Conn. Filed May 31, 1918, Serial No. 237,537. Renewed Aug. 26, 1919. Serial No. 320,052. 14 Claims. (Cl. 235—104.)



1. The combination of an electric motor and its energizing circuit, a time registering device, a register recording the number of actuations of said time register, electro-responsive means controlling said registers, and electro-responsive means interposed in the motor energizing circuit and controlling the first mentioned electro-responsive means.

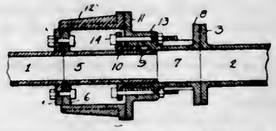
REISSUES.

14,905. CHECK-DETECTOR FOR CHECK-ACTUATED MACHINES. ALFRED D. ANTOINE, Chicago, and CLARENCE C. TRAVIS, Evanston, Ill., assignors to Advance Machine Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1916. Serial No. 121,300. Original No. 1,193,967, dated Aug. 8, 1916, Serial No. 804,339, filed Dec. 3, 1913. 17 Claims. (Cl. 194—102.)



1. A device of the character described, embodying a casing having a check entrance and a check discharge opening, a rotatable check carrier provided with a chek receiving orifice, a normally inactive catch, said catch having a shoulder, means operating to move the catch to cause the said shoulder to enter the check receiving orifice when the latter is positioned adjacent the shoulder and in the absence of a check in the orifice, an additional catch disposed between the casing and the periphery of the check carrier, and being also disposed entirely within the plane formed by the side faces of the check carrier, and a shoulder on the periphery of the check carrier and with which shoulder the second recited catch coöperates when the first said catch is inactive, a portion of the second recited catch projecting into the path of movement of the edge of the check in the receiving orifice.

14,906. EXPANSION-JOINT. JOHN ALBERT BOGART, Port Chester, N. Y., assignor to Alberger Gas Engine Company, Buffalo, N. Y., a Corporation of New York. Filed May 20, 1920. Serial No. 382,992. Original No. 1,319,457, dated Oct. 21, 1919, Serial No. 48,805, filed Sept. 3, 1915. 8 Claims. (Cl. 285—22.)



1. In combination with two sections of a pipe line, a casing attached to the end of one pipe section, a tubular member on the end of the other pipe section and slidably disposed in said casing, an annular head on said tubular member, and a sleeve secured to said casing and extending over said head to form a protective chamber in which the sliding surface of said tubular member is disposed.

2. A device of the character described comprising a casing, a tubular member slidably mounted in said casing, and a sleeve secured to said casing and extending over the sliding surface of said tubular member to prevent the accumulation or discharge thereon of foreign material.

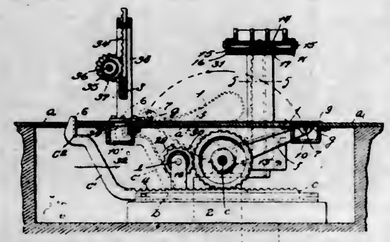
3. A device of the character described comprising a casing, a tubular member slidably mounted in said casing, an annular head on said tubular member, a sleeve secured to said casing and extending over such head to form a protective member in which the sliding surface of said tubular member is disposed, and stopping means formed on the free edge of said sleeve overhanging said head and extending into the path of movement of said head so that the outward movement of said tubular member is limited.

4. In combination with two sections of a pipe line, a casing attached to the end of one pipe section and recessed to receive packing and a packing gland and having holes to receive through-bolts for said gland, a tubular member on the other pipe section and slidably disposed in said casing, an annular head on said tubular member, a sleeve

secured to said casing and extending over said head, packing and a packing gland in said casing, and gland-bolts engaging said gland and extending through said holes in said casing and adapted to the adjustment of said gland, whereby a closed chamber is formed to protect the joint and whereby said gland may be adjusted without disturbance or disassembling of said other parts.

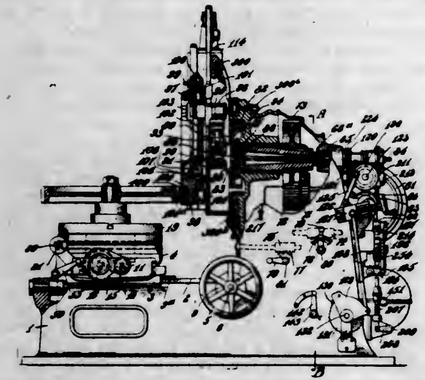
5. An expansion joint comprising a main body secured to one side of the pipe line provided with a recess for packing and a gland, an extension flange to attach a cylindrical sleeve and offsets bored to receive gland-bolts, packing, gland-bolts and a gland, a slidable pipe section secured to the other side of said pipe line externally machined and sliding within said main body, and a cylindrical sleeve rigidly secured to said main body, internally machined and taking over the flange of said slidable pipe section to form a closed chamber and support for the joint so formed.

14,907. SHEET-METAL-DOUBLING MACHINE. JOHN G. GRAHAM, Granite City, Ill. Filed Dec. 31, 1919. Serial No. 348,683. Original No. 1,252,270, dated Jan. 1, 1918, Serial No. 151,479, filed Feb. 28, 1917. 13 Claims. (Cl. 153—21.)



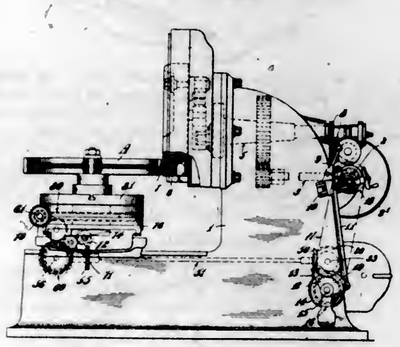
1. A sheet-metal doubling machine comprising, in combination, means including a member adapted for engagement with the sheet for folding the sheet upon itself, a second member adapted for engagement with the sheet for slidably moving the sheet, and means for effecting sheet-sliding movement of the second member during and approximately throughout folding-movement of the first member for bringing the ends of the folded sheet substantially in alinement at the end of the folding movement of the first member.

14,908. GEAR-CUTTING MACHINE. MAX MAAG, Zurich, Switzerland. Filed Dec. 22, 1919. Serial No. 346,790. Original No. 1,290,270, dated Jan. 7, 1919, Serial No. 115,469, filed Aug. 17, 1916. 44 Claims. (Cl. 90—9.)



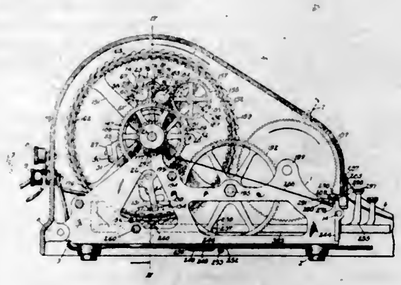
1. In a gear cutting machine, a multiple tooth cutter of rack form, a reciprocable holder therefor, a blank carrier, means for rolling the blank past the cutter an integral number of pitches during the cutting operation, means for arresting the rolling of the blank at a predetermined point, and means for moving the blank back past the cutter a distance equal to the rectilinear travel of the beforementioned rolling movement.

14,909. GEAR-CUTTING MACHINE. MAX MAAG, Zurich, Switzerland. Filed Dec. 22, 1919. Serial No. 346,791. Original No. 1,270,183, dated June 18, 1918, Serial No. 112,714, filed Aug. 2, 1916. 14 Claims. (Cl. 90—9.)



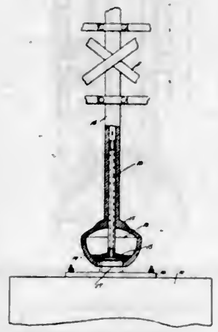
1. In a gear cutting machine working according to the rolling principle, in combination, a tool holder, a blank-carrier, means for moving the tool holder, and imparting to the blank-carrier a rotary movement and a longitudinal travel, said means comprising two separate drums for controlling the movements of the blank-carrier, and means actuated by one of said drums for influencing the movement of the other drum, substantially as described.

14,910. TELEGRAPH-TRANSMITTER. EDWIN H. PIERSEN, Topeka, Kans, assignor to The Piersen Telegraph Transmitter Company, Topeka, Kans., a Corporation of Kansas. Filed Feb. 9, 1917. Serial No. 147,709. Original No. 1,157,040, dated Oct. 19, 1915, Serial No. 737,239, filed Dec. 17, 1912. 239 Claims. (Cl. 178—17.5.)



5. The combination with a movable transmitting element comprising a character member and a positioning device, of a setting element comprising a series of movable setting dogs and means for setting the dogs in functional position, means for moving either of said elements to effect operative engagement of the setting dogs, and means for effecting operation of the character member following the setting operation.

14,911. INTERNAL-LOCK BAIT FOR DRAWING GLASS. JOHN R. SCOHY, Okmulgee, Okla. Filed May 6, 1920. Serial No. 379,396. Original No. 1,311,137, dated July 22, 1919, Serial No. 260,319, filed Oct. 30, 1918. 4 Claims. (Cl. 49—17.1.)



1. In a bait for glass drawing apparatus, a tubular portion having at one end a substantially semi-spherical bowl provided with an opening on the lower side thereof, a movable tubular member telescoping in said tubular portion and having a flange, the edge of the flange overlapping the edge of the opening and operating to be lifted when the bowl is inserted in the glass and to be lowered to form and engage a rim of glass above the outer edge of the flange.

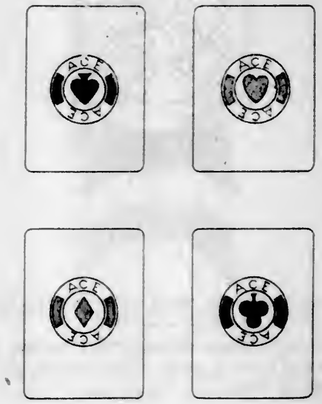
DESIGNS.

55,582. ARTICLE OF MANUFACTURE. HARRY T. ABOLIN, Woodridge, N. J., assignor to Witcombe, McGeachin & Co., New York, N. Y., a Partnership composed of H. A. Witcombe and George McGeachin. Filed May 7, 1920. Serial No. 379,675. Term of patent 7 years.



The ornamental design for an article of manufacture, substantially as shown and described.

55,583. PLAYING-CARD. ALFRED BACIGALUPI, San Francisco, Calif. Filed Feb. 12, 1920. Serial No. 358,150. Term of patent 14 years.



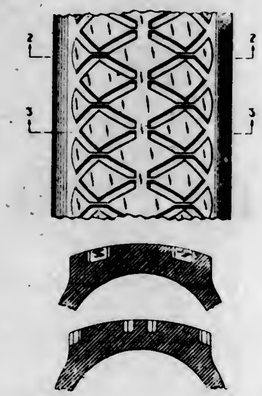
The ornamental design for a playing card as shown.

55,584. HELP-SELF COUNTER. WILLIAM J. BAILEY, Cleveland, Ohio. Filed Apr. 17, 1920. Serial No. 374,764. Term of patent 14 years.



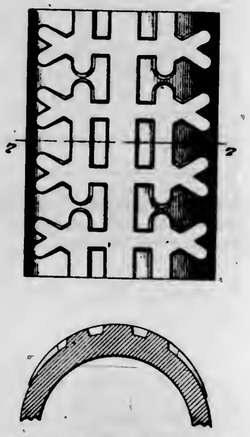
The design for a help self counter substantially as herein shown.

55,585. AUTOMOBILE-TIRE. GEORGE E. BATCHELLER, Forest Hills, N. Y. Filed Mar. 1, 1920. Serial No. 362,564. Term of patent 7 years.



The ornamental design for an automobile tire, as shown.

55,586. TIRE-CASING. RUSSELL DEAN BELDEN, Marion, Ohio. Filed Mar. 10, 1920. Serial No. 364,753. Term of patent 14 years.



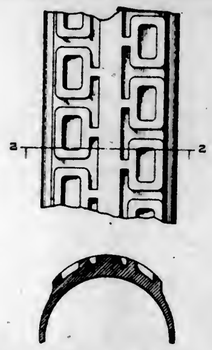
The ornamental design for a tire casing, as shown.

55,587. TOY BLOCK. ELIZABETH BRATTON, Columbus, Ohio. Filed Dec. 26, 1919. Serial No. 347,617. Term of patent 14 years.



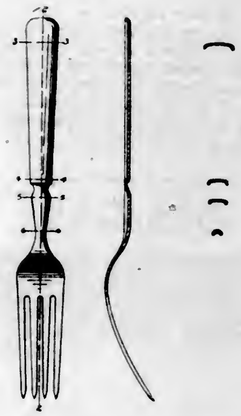
The ornamental design for a toy block, as shown.

55,588. TIRE-TREAD. WILLIAM O. BRUESS, Port Clinton, Ohio. Filed Feb. 2, 1920. Serial No. 355,775. Term of patent 3½ years.



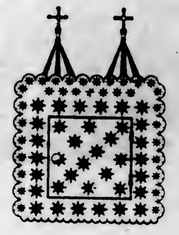
The ornamental design for a tire tread, substantially as shown.

55,589. FORK. FRANK E. BURCHFIELD, Derby, Conn., assignor to Shelton Tool & Machine Co., Shelton, Conn., a Corporation. Filed Nov. 14, 1919. Serial No. 338,122. Term of patent 7 years.



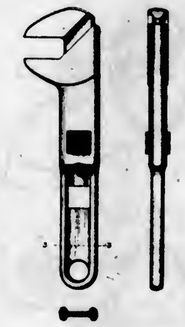
The ornamental design for a fork, as shown.

55,590. SACRAMENTAL SHRINE. SIMON BUSCAVAGE, Shenandoah, Pa. Filed Dec. 11, 1919. Serial No. 344,150. Term of patent 3½ years.



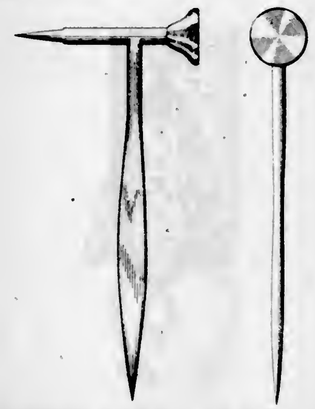
The ornamental design for a sacramental shrine as shown.

55,591. WRENCH. ADDISON B. CABLL, New York, N. Y., assignor to Practical Tools Company, New York, N. Y., a Corporation of New York. Filed Nov. 6, 1919. Serial No. 336,219. Term of patent 14 years.



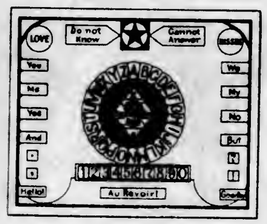
The ornamental design for a wrench, substantially as shown.

55,592. COMBINATION HAMMER, CAN-PUNCH, AND ICE-PICK. ALFRED H. CRAMPTON, Stockton, Calif. Filed Feb. 4, 1920. Serial No. 356,244. Term of patent 14 years.



The ornamental design for a combination hammer, can punch, and ice pick, as shown.

55,593. COMMUNICATION-BOARD. ALBERT S. CROCKETT, New York, N. Y. Filed Sept. 27, 1919. Serial No. 326,995. Term of patent 7 years.



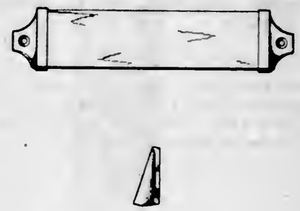
The ornamental design for a communication board, as shown.

55,594. DOLL. GRACE CORRY, New York, N. Y. Filed Mar. 29, 1920. Serial No. 369,756. Term of patent 3½ years.



The ornamental design for a doll, as shown.

55,595. DRAWER-PULL. CLIFFORD A. CUTLER, Buffalo, N. Y. Filed Aug. 26, 1918. Serial No. 251,591. Term of patent 7 years.



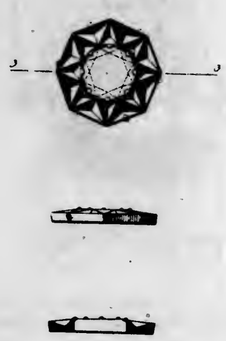
The ornamental design for a drawer pull, as shown.

55,596. PHONOGRAPHIC-DISK-RECORD CABINET. ERNEST HAYWARD FAIRBANKS, Merchantville, N. J. Filed May 14, 1920. Serial No. 381,477. Term of patent 14 years.



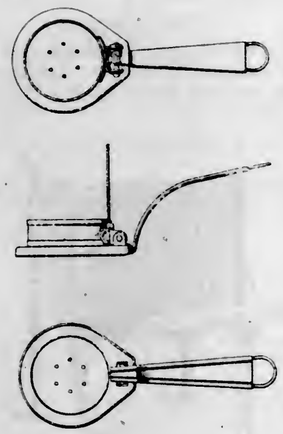
The ornamental design for a phonographic disk record cabinet, as shown.

55,597. PLATE FOR MOUNTING GEMS IN JEWELRY. FREDERICK H. FELGER, Newark, N. J., assignor to F. & F. Felger, Inc., Newark, N. J. Filed Mar. 16, 1920. Serial No. 366,421. Term of patent 7 years.



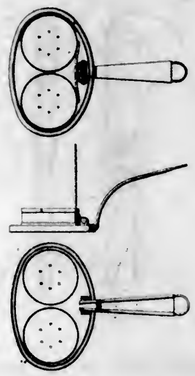
The ornamental design for a plate for mounting gems in jewelry, as shown.

55,598. EGG-POACHER. GUY W. FERDON, Cresskill, N. J., assignor to Silver & Co., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 27, 1920. Serial No. 377,119. Term of patent 14 years.



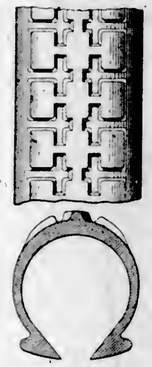
The ornamental design for an egg poacher, as shown.

55,599. EGG-POACHER. GUY W. FERDON, Cresskill, N. J., assignor to Silver & Co., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 27, 1920. Serial No. 377,120. Term of patent 14 years.



The ornamental design for an egg poacher, as shown.

55,600. TIRE. THOMAS FOLLEN, La Fayette, Ind. Filed Mar. 18, 1920. Serial No. 366,995. Term of patent 14 years.



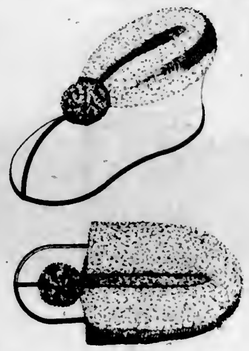
The ornamental design for a tire, as shown.

55,601. WEEDER. JOHN GILSON, Sr., Port Washington, Wis., assignor to J. E. Gilson Company, Port Washington, Wis., a Copartnership consisting of John Gilson, Sr., and John E. Gilson, Jr. Filed June 17, 1918. Serial No. 240,513. Term of patent 14 years.



The ornamental design for a weeder, as shown.

55,602. SLIPPER. PIERRE E. GIROUX, Johnstown, N. Y. Filed Jan. 3, 1920. Serial No. 349,339. Term of patent 7 years.



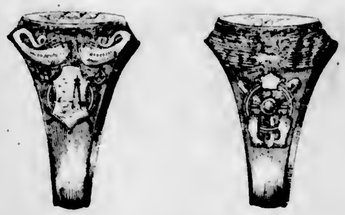
The ornamental design for a slipper, as shown.

55,603. BRACKET. JOSEPH GLASSBERG, New York, N. Y. Filed Jan. 16, 1920. Serial No. 351,954. Term of patent 14 years.



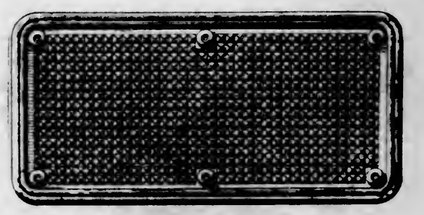
The ornamental design for a bracket substantially as shown.

55,604. RING. NICHOLAS GOROD, Brooklyn, N. Y., assignor to Aaron Elkonin, New York, N. Y. Filed Apr. 17, 1920. Serial No. 374,757. Term of patent 14 years.



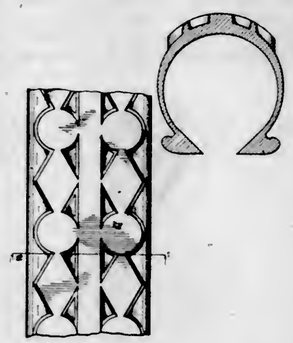
The ornamental design for a ring as shown.

55,605. STEP-PLATE. EDWARD E. GREEN, San Francisco, Calif. Filed Oct. 29, 1919. Serial No. 334,370. Term of patent 14 years.



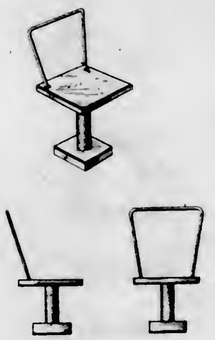
The ornamental design for a step plate as shown.

55,606. TIRE. CHARLES W. GREENE, Toledo, Ohio, assignor to The Bowling Green Rubber Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 26, 1920. Serial No. 369,100. Term of patent 14 years.



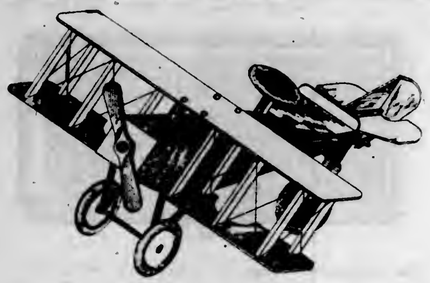
The ornamental design for a tire as shown.

55,607. TOY CHAIR. MILFRED L. GREENSTREET, Maplewood, Mo., assignor, by mesne assignments, to Blocker Toy Manufacturing Company, Maplewood, Mo., a Corporation of Missouri. Filed Nov. 17, 1919. Serial No. 338,768. Term of patent 7 years.



The ornamental design for a toy chair, as shown.

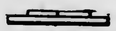
55,608. PUSH AND COASTER CAR. ALBERT GRILL, Pittsburgh, Pa. Filed Jan. 10, 1920. Serial No. 350,706. Term of patent 14 years.



The ornamental design for a push and coaster car, substantially as shown and described.

55,609. JEWELRY—NAMELY, A RING-TOP, PENDANT, A PAIR OF CUFF-BUTTONS, PIN, OR ARTICLE OF SIMILAR NATURE. CASSRIEL J. GROSSMAN and SAMUEL M. GROSSMAN, Chicago, Ill.; said Samuel M. Grossman assignor, by mesne assignments, to S. M. Grossman & Co., a Corporation of Illinois. Filed Jan. 20, 1919. Serial No. 272,207. Term of patent 3½ years.





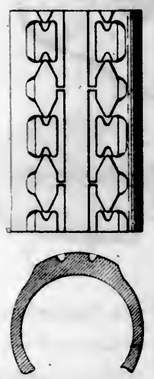
The ornamental design for jewelry, namely, a ring top, pendant, a pair of cuff buttons, pin or article of similar nature.

55,610. COVER FOR AN INKSTAND. HARRY HAUPT, Elmsford, N. Y., assignor to Kimpton, Haupt & Co., New York, N. Y., a Firm. Filed Feb. 21, 1919. Serial No. 278,528. Term of patent 14 years.



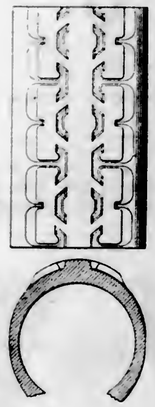
The ornamental design for a cover for an inkstand, as shown.

55,611. TIRE-TREAD. CHESTER O. HENDERSON, Columbus, Ohio, assignor to Henderson Tire & Rubber Corporation, Columbus, Ohio. Filed Mar. 25, 1920. Serial No. 368,757. Term of patent 7 years.



The ornamental design for a tire tread, substantially as shown.

55,612. TIRE-TREAD. CHESTER O. HENDERSON, Columbus, Ohio, assignor to Henderson Tire & Rubber Corporation, Columbus, Ohio. Filed Mar. 25, 1920. Serial No. 368,758. Term of patent 7 years.



The ornamental design for a tire tread, substantially as shown.

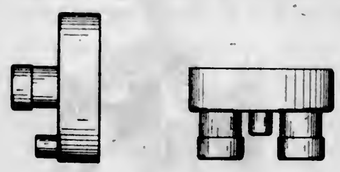
55,613. PHONOGRAPHIC-RECORD-DISK CABINET. EMMETT M. HOWARD, High Point, N. C. Filed Feb. 13, 1920. Serial No. 358,402. Term of patent 14 years.



The ornamental design for a phonographic record disk cabinet, as shown.

55,614. SWITCH-CASING. ANSEL C. HULBERT, San Francisco, Calif. Filed Oct. 2, 1919. Serial No. 328,067. Term of patent 14 years.





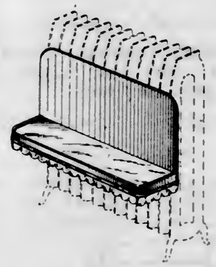
The ornamental design for a switch casing substantially as shown.

55,615. RADIATOR-CAP ORNAMENT FOR AUTOMOBILES. SALOME C. JACKSON, New York, N. Y. Filed Apr. 2, 1919. Serial No. 287,082. Term of patent 3½ years.



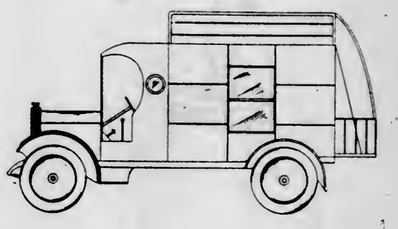
The ornamental design for a radiator cap ornament for automobiles as shown.

55,616. FOOT REST AND WARMER. JAMES G. JOHNSON, Chicago, Ill. Filed Jan. 21, 1920. Serial No. 353,090. Term of patent 3½ years.



The ornamental design for a foot rest and warmer, as shown.

55,617. AUTOMOBILE-BODY. JOHN H. KAMMERER, Oakland, Calif. Filed Apr. 12, 1920. Serial No. 373,401. Term of patent 14 years.



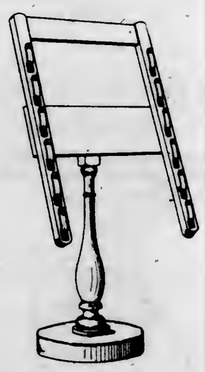
The ornamental design for an automobile body, as shown.

55,618. WINDSHIELD. CLARENCE D. KELLER, Los Angeles, Calif. Filed Mar. 1, 1920. Serial No. 362,560. Term of patent 7 years.



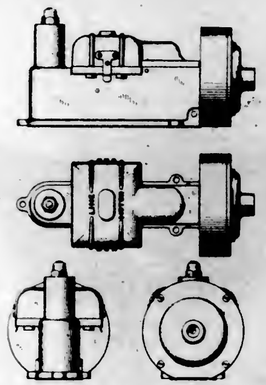
The ornamental design for a windshield, as shown.

55,619. BELT-DISPLAY STAND. WILLIAM C. KLEE, Rochester, N. Y. Filed Nov. 1, 1919. Serial No. 335,191. Term of patent 7 years.



The ornamental design for a belt display stand as shown.

55,620. CONTROLLER. GEORGE A. KNAAK, Milwaukee, Wis. Filed Nov. 28, 1919. Serial No. 341,310. Term of patent 14 years.



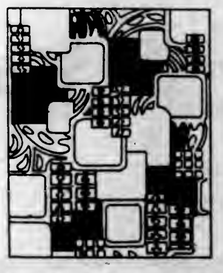
The ornamental design for a controller substantially as shown.

55,621. WREATH. LEOPOLD KOROPP and VICTOR F. BERGMAN, Chicago, Ill. Filed Feb. 4, 1920. Serial No. 356,243. Term of patent 3½ years.



The ornamental design for a wreath as shown.

55,622. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1920. Serial No. 368,423. Term of patent 3½ years.



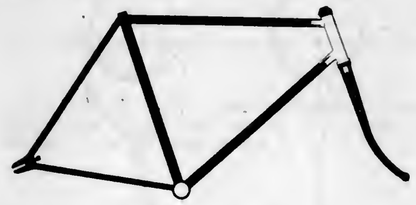
The ornamental design for a textile fabric as shown.

55,623. TEXTILE FABRIC. CHRETIEN LOEGLER, Clifton, N. J., assignor to Monica Textile Corporation, a Corporation of New York. Filed Apr. 21, 1920. Serial No. 375,630. Term of patent 14 years.



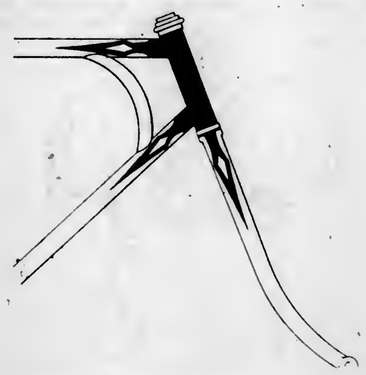
The ornamental design for a textile fabric, as shown.

55,624. BICYCLE-FRAME. EDWARD JULIUS LONN, Laporte, Ind., assignor to Great Western Manufacturing Company, Laporte, Ind., a Corporation of Indiana. Filed Oct. 23, 1919. Serial No. 332,838. Term of patent 14 years.



The ornamental design for a bicycle-frame, as shown.

55,625. BICYCLE-FRAME. EDWARD JULIUS LONN, Laporte, Ind., assignor to Great Western Manufacturing Co., Laporte, Ind., a Corporation of Indiana. Filed Jan. 29, 1920. Serial No. 354,940. Term of patent 14 years.



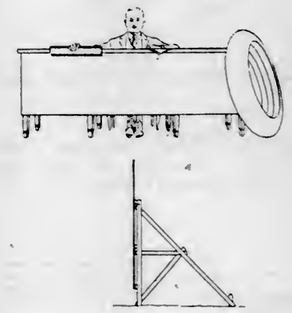
The ornamental design for a bicycle-frame, as shown.

55,626. BULLETIN-BOARD. HAROLD J. MAHIN, New York, N. Y. Filed Oct. 17, 1919. Serial No. 331,472. Term of patent 7 years.



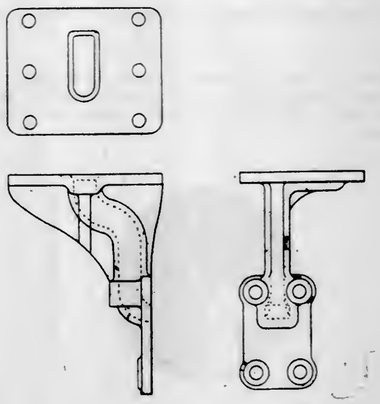
The ornamental design for a bulletin board, as shown.

55,627. BULLETIN-BOARD. HAROLD J. MAHIN, New York, N. Y. Filed Dec. 20, 1919. Serial No. 346,394. Term of patent 7 years.



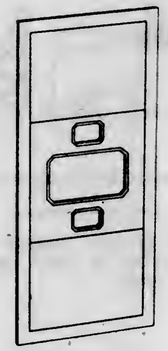
The ornamental design for a bulletin board, as shown.

55,628. MANIFOLD-BRACKET. CHARLES E. MASON, Detroit, Mich., assignor to Grant Waldref, Ramsey county, Minn. Filed Oct. 28, 1919. Serial No. 334,084. Term of patent 14 years.



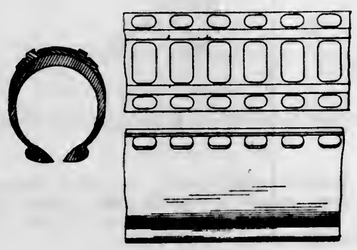
The ornamental design for a manifold bracket, as shown.

55,629. CALENDAR-MOUNTING. ANDREW J. MCDADE, New York, N. Y. Filed Sept. 24, 1919. Serial No. 326,086. Term of patent 14 years.



The ornamental design for a calendar mounting, as shown.

55,630. PNEUMATIC TIRE. RICHARDS P. MCELRATH, Lakewood, Ohio. Filed May 26, 1919. Serial No. 299,998. Term of patent 14 years.



The ornamental design for a pneumatic tire, as shown.

55,631. GUIDE DEVICE. WARNER E. MCMULLAN and HENRY JAMES HICKEY, Fort Dodge, Iowa. Filed Mar. 20, 1920. Serial No. 367,492. Term of patent 14 years.



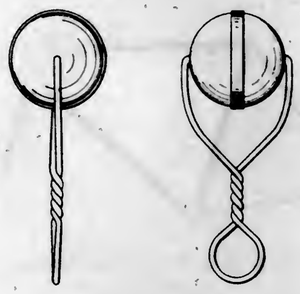
The ornamental design for a guide device, as shown.

55,632. COMBINED PAPER-WEIGHT AND MAGNIFYING-GLASS. PETER H. MEYER, Buffalo, N. Y. Filed Jan. 22, 1920. Serial No. 353,339. Term of patent 14 years.



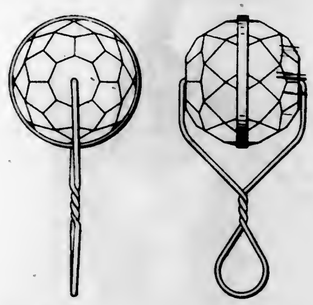
The ornamental design for a combined paper weight and magnifying glass, as shown.

55,633. RATTLE. FREDERICK C. MONKHOUSE, Rochester, N. Y. Filed Mar. 30, 1920. Serial No. 370,010. Term of patent 3½ years.



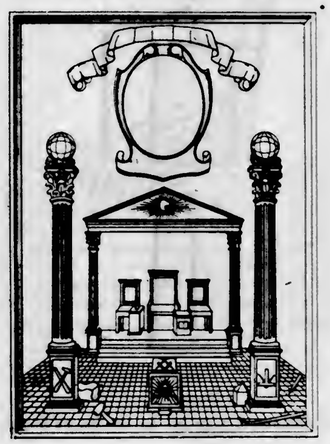
The ornamental design for a rattle as shown.

55,634. RATTLE. FREDERICK C. MONKHOUSE, Rochester, N. Y. Filed Mar. 30, 1920. Serial No. 370,012. Term of patent 3½ years.



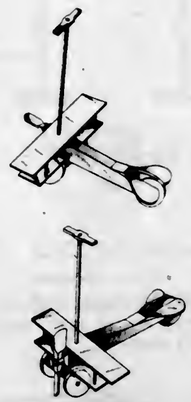
The ornamental design for a rattle as shown.

55,635. PICTURE-FRAME. PETER MOREA, Woodside, N. Y. Filed Mar. 10, 1920. Serial No. 364,750. Term of patent 14 years.



The ornamental design for a picture frame as shown.

55,636. AEROPLANE-COASTER. ERASTUS G. MOORE, Long Beach, Calif. Filed Dec. 11, 1919. Serial No. 344,152. Term of patent 7 years.



The ornamental design for an aeroplane coaster, as shown.

55,637. SPOOL-HOLDER. PAUL OTTO MUELLER, Brooklyn, N. Y., assignor of one-half to William C. Mueller, Brooklyn, N. Y. Filed July 23, 1919. Serial No. 312,841. Term of patent 7 years.



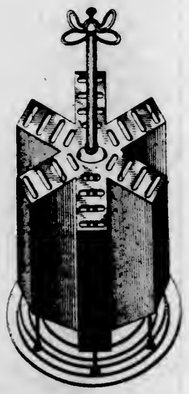
The design for a spool holder substantially as shown and described.

55,638. DRESS. JOSEPH NEMSER, New York, N. Y. Filed Jan. 6, 1920. Serial No. 349,821. Term of patent 3½ years.



The ornamental design for a dress as shown.

55,639. DINING-CUTLERY HOLDER. ANDREW ONUFRYK, Rochester, N. Y. Filed Mar. 12, 1920. Serial No. 365,323. Term of patent 7 years.



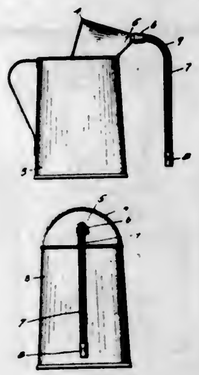
The ornamental design for a dining cutlery holder as shown.

55,640. DOLL. ADELAIDE M. PORTER, Greenwich, Conn., assignor to Huyler's Inc., New York, N. Y., a Corporation of New York. Filed Mar. 5, 1920. Serial No. 363,571. Term of patent 7 years.



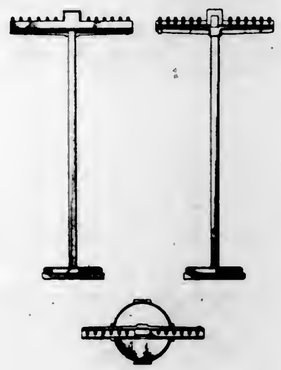
The ornamental design for a doll substantially as shown.

55,641. OIL-CAN. STEPHEN C. PRICE, Louisiana, Mo., assignor, by direct and mesne assignments, to P. R. B. Pump Company, Hannibal, Mo., a Corporation of Missouri. Filed Jan. 2, 1920. Serial No. 349,036. Term of patent 14 years.



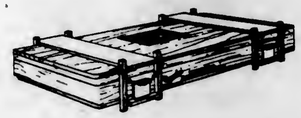
The ornamental design for an oil can as shown and described.

55,642. DISPLAY-STAND. ANTHONY PRINI, Brooklyn, N. Y. Filed Apr. 26, 1920. Serial No. 376,877. Term of patent 3½ years.



The ornamental design for a display stand, as shown.

55,643. CANDY-BOX. ERASMUS COLLINS QUINBY, Los Angeles, Calif. Filed Feb. 16, 1920. Serial No. 359,183. Term of patent 14 years.



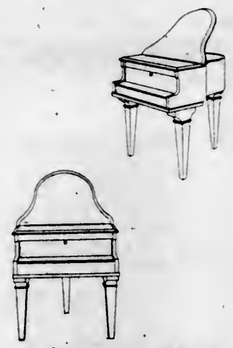
The ornamental design for a candy box, as shown.

55,644. GOLF-CLUB. WILLIAM F. REACH, Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Mar. 27, 1920. Serial No. 369,447. Term of patent 7 years.



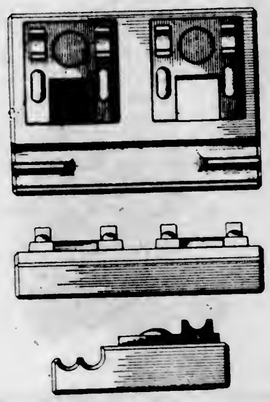
The ornamental design for a golf club, as shown.

55,645. CASING FOR A SOUND-PRODUCING INSTRUMENT. MAX RICHTSTEIG, Cincinnati, Ohio. Filed Mar. 25, 1920. Serial No. 368,755. Term of patent 14 years.



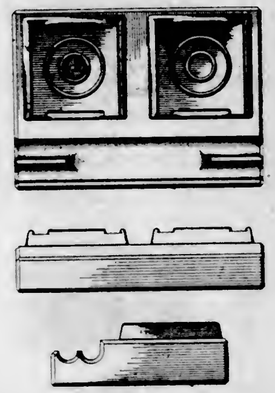
The ornamental design for a casing for a sound-producing instrument, as shown.

55,646. INKSTAND. JAMES T. RILEY, Brooklyn, N. Y., assignor to Kimpton, Haupt & Co., New York, N. Y., a Firm composed of Charles F. Kimpton, Harry Haupt, and Elizabeth H. Harbottle. Filed Jan. 19, 1920. Serial No. 352,628. Term of patent 14 years.



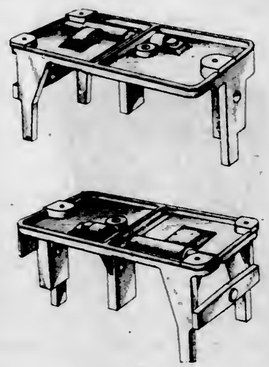
The ornamental design for an inkstand, as shown.

55,647. INKSTAND. JAMES T. RILEY, Brooklyn, N. Y., assignor to Kimpton, Haupt & Co., New York, N. Y., a Firm composed of Charles F. Kimpton, Harry Haupt, and Elizabeth H. Harbottle. Filed Jan. 19, 1920. Serial No. 352,629. Term of patent 14 years.



The ornamental design for an inkstand, as shown.

55,648. MOUNTING-FRAME FOR SPRING-MOTORS. HENRY G. SAAL, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,767. Term of patent 14 years.



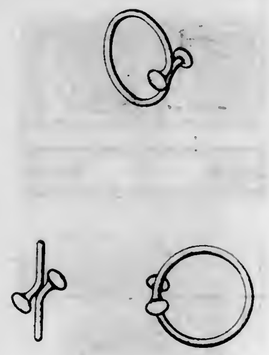
The ornamental design for a mounting frame for spring motors, as shown.

55,649. EMBLEM, MEDAL, BADGE, INSIGNIA, OR AN ARTICLE OF A SIMILAR NATURE. MYRON D. SALISBURY, East Orange, N. J., assignor to Edison Storage Battery Company, West Orange, N. J., a Corporation of New Jersey. Filed Apr. 24, 1920. Serial No. 376,420. Term of patent 14 years.



The ornamental design for an emblem, medal, badge, insignia, or an article of a similar nature as shown.

55,650. RING. LUCIAN W. SANBORN, Framingham, Mass. Filed June 25, 1919. Serial No. 306,744. Term of patent 7 years.



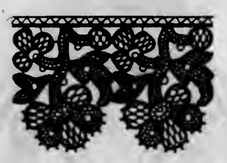
The ornamental design for a ring, as shown.

55,651. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 17, 1920. Serial No. 352,215. Term of patent 3½ years.



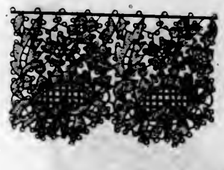
The ornamental design for lace and embroidery, as shown.

55,652. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 17, 1920. Serial No. 352,216. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,653. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 17, 1920. Serial No. 352,217. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,654. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1920. Serial No. 353,881. Term of patent 3½ years.



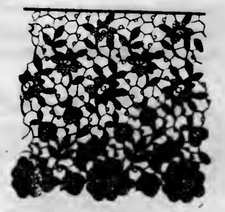
The ornamental design for lace and embroidery, as shown.

55,655. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1920. Serial No. 353,882. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,656. LACE AND EMBBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1920. Serial No. 353,883. Term of patent 3½ years.



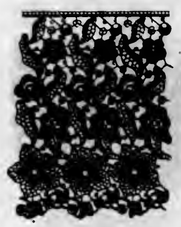
The ornamental design for lace and embroidery, as shown.

55,657. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1920. Serial No. 353,884. Term of patent 3½ years.



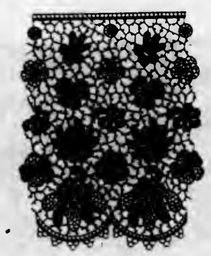
The ornamental design for lace and embroidery, as shown.

55,658. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1920. Serial No. 353,885. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,659. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1920. Serial No. 353,886. Term of patent 3½ years.



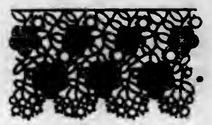
The ornamental design for lace and embroidery, as shown.

55,660. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,179. Term of patent 3½ years.



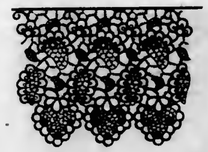
The ornamental design for lace and embroidery, as shown.

55,661. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,180. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,662. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,181. Term of patent 3½ years.



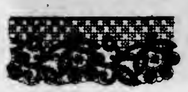
The ornamental design for lace and embroidery, as shown.

55,663. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,182. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,664. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,183. Term of patent 3½ years.



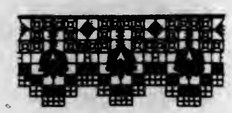
The ornamental design for lace and embroidery, as shown.

55,665. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,184. Term of patent 3½ years.



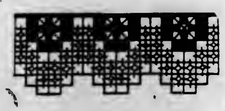
The ornamental design for lace and embroidery, as shown.

55,666. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,185. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,667. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,186. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,668. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,187. Term of patent 3½ years.



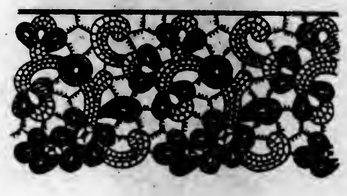
The ornamental design for lace and embroidery, as shown.

55,669. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,188. Term of patent 3½ years.



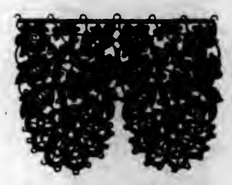
The ornamental design for lace and embroidery, as shown.

55,670. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,189. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,671. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,190. Term of patent 3½ years.



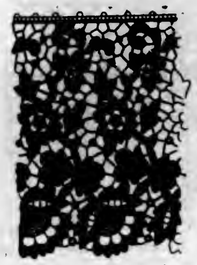
The ornamental design for lace and embroidery, as shown.

55,672. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,687. Term of patent 3½ years.



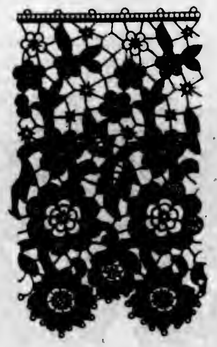
The ornamental design for lace and embroidery, as shown.

55,673. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,688. Term of patent 3½ years.



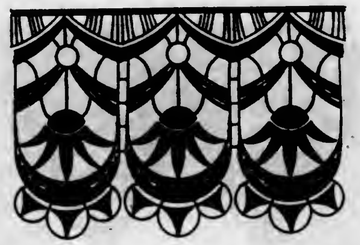
The ornamental design for lace and embroidery, as shown.

55,674. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,689. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,675. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,690. Term of patent 3½ years.



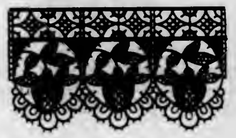
The ornamental design for lace and embroidery, as shown.

55,676. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,691. Term of patent 3½ years.



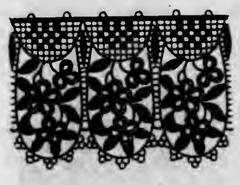
The ornamental design for lace and embroidery, as shown.

55,677. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,692. Term of patent 3½ years.



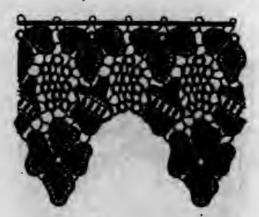
The ornamental design for lace and embroidery, as shown.

55,678. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,693. Term of patent 3½ years.



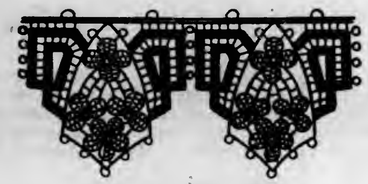
The ornamental design for lace and embroidery, as shown.

55,679. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,694. Term of patent 3½ years.



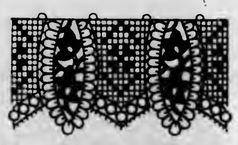
The ornamental design for lace and embroidery, as shown.

55,680. LACE AND EMROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,696. Term of patent 3½ years.



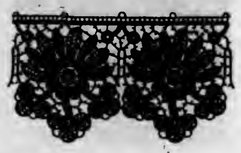
The ornamental design for lace and embroidery, as shown.

55,681. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,697. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,682. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,698. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,683. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,401. Term of patent 3½ years.



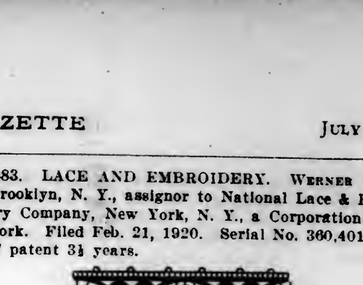
The ornamental design for lace and embroidery, as shown.

55,684. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,402. Term of patent 3½ years.



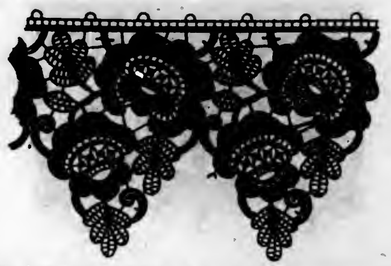
The ornamental design for lace and embroidery, as shown.

55,685. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,403. Term of patent 3½ years.



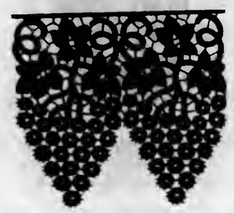
The ornamental design for lace and embroidery, as shown.

55,686. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,404. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,687. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,405. Term of patent 3½ years.

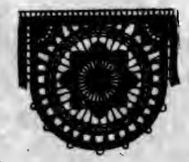


The ornamental design for lace and embroidery, as shown.

55,688. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,406. Term of patent 3½ years.

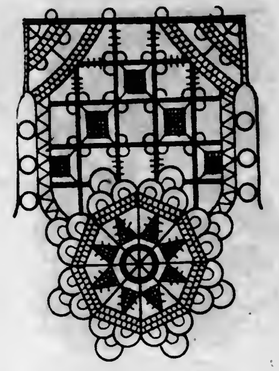
The ornamental design for lace and embroidery, as shown.

55,689. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,407. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,690. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,408. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,691. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,409. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,692. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,410. Term of patent 3½ years.



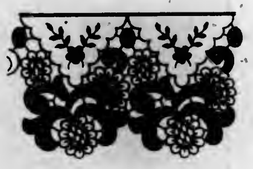
The ornamental design for lace and embroidery, as shown.

55,693. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,411. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,694. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,412. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,695. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,149. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,696. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,150. Term of patent 3½ years.



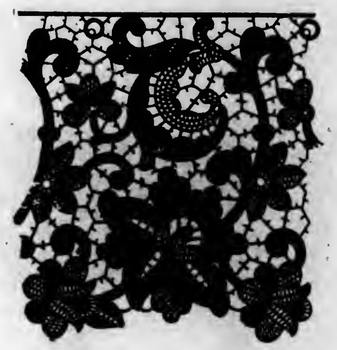
The ornamental design for lace and embroidery, as shown.

55,697. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,151. Term of patent 3½ years.



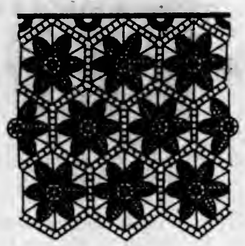
The ornamental design for lace and embroidery, as shown.

55,698. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,152. Term of patent 3½ years.



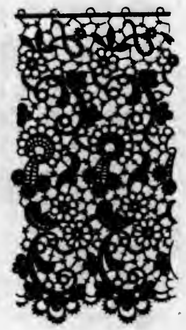
The ornamental design for lace and embroidery, as shown.

55,699. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,153. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,700. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,154. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,701. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,155. Term of patent 3½ years.



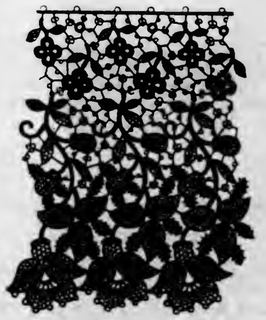
The ornamental design for lace and embroidery, as shown.

55,702. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,156. Term of patent 3½ years.



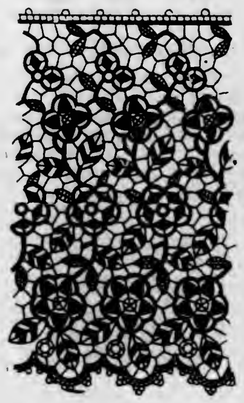
The ornamental design for lace and embroidery, as shown.

55,703. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,157. Term of patent 3½ years.



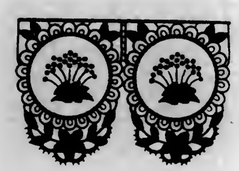
The ornamental design for lace and embroidery, as shown.

55,704. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,158. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,705. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,159. Term of patent 3½ years.



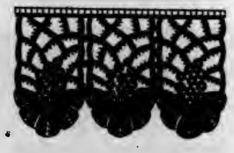
The ornamental design for lace and embroidery, as shown.

55,706. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,160. Term of patent 3½ years.



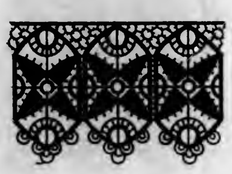
The ornamental design for lace and embroidery, as shown.

55,707. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,161. Term of patent 3½ years.



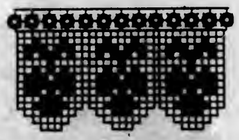
The ornamental design for lace and embroidery, as shown.

55,708. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,162. Term of patent 3½ years.



The ornamental design for lace and embroidery, as shown.

55,709. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,163. Term of patent 3½ years.



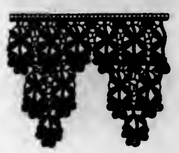
The ornamental design for lace and embroidery, as shown.

55,710. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,164. Term of patent 3½ years.



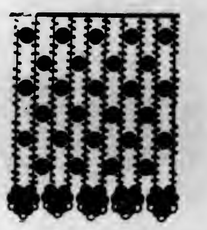
The ornamental design for lace and embroidery, as shown.

55,711. LACE AND EMBROIDERY. WERNER SCHMID, Brooklyn, N. Y., assignor to National Lace & Embroidery Company, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1920. Serial No. 359,695. Term of patent 3½ years.



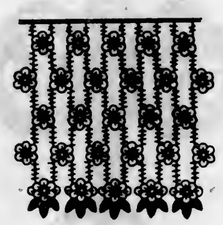
The ornamental design for lace and embroidery, as shown.

55,712. LACE. MARTIN SEIDEL, Weehawken, N. J., assignor to West Shore Embroidery Company, West New York, N. J., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,485. Term of patent 3½ years.



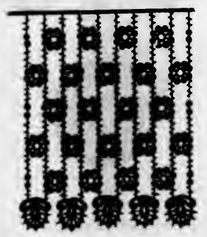
The ornamental design for lace, as shown.

55,713. LACE. MARTIN SEIDEL, Weehawken, N. J., assignor to West Shore Embroidery Company, West New York, N. J., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,486. Term of patent 3½ years.



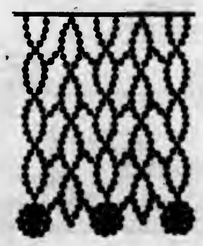
The ornamental design for lace, as shown.

55,714. LACE. MARTIN SEIDEL, Weehawken, N. J., assignor to West Shore Embroidery Company, West New York, N. J., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,487. Term of patent 3½ years.



The ornamental design for lace, as shown.

55,715. LACE. MARTIN SEIDEL, Weehawken, N. J., assignor to West Shore Embroidery Company, West New York, N. J., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,489. Term of patent 3½ years.



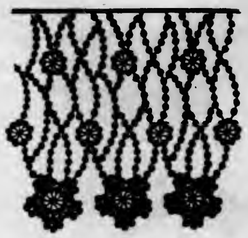
The ornamental design for lace, as shown.

55,716. LACE. MARTIN SEIDEL, Weehawken, N. J., assignor to West Shore Embroidery Company, West New York, N. J., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,490. Term of patent 3½ years.



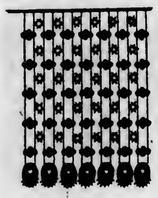
The ornamental design for lace, as shown.

55,717. LACE. MARTIN SEIDEL, Weehawken, N. J., assignor to West Shore Embroidery Company, West New York, N. J., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,491. Term of patent 3½ years.



The ornamental design for lace, as shown.

55,718. LACE. MARTIN SEIDEL, Weehawken, N. J., assignor to West Shore Embroidery Company, West New York, N. J., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,492. Term of patent 3½ years.



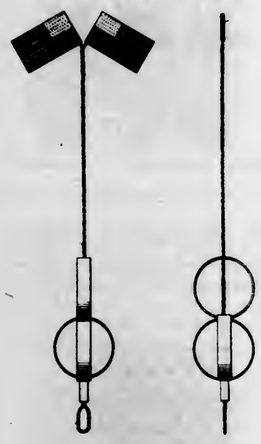
The ornamental design for lace, as shown.

55,719. LACE. MARTIN SMIDEL, Weehawken, N. J., assignor to West Shore Embroidery Company, West New York, N. J., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,493. Term of patent 3½ years.



The ornamental design for lace, as shown.

55,720. TOY. NOBORU SEGAWA, Alvin, Tex. Filed Apr. 27, 1918. Serial No. 231,265. Term of patent 14 years.



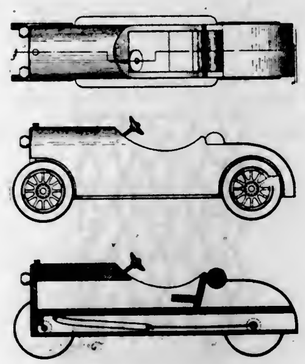
The ornamental design for a toy, substantially as shown.

55,721. SURFACE ORNAMENTATION FOR A COCOANUT-SHELL OR SIMILAR ARTICLE. EFISIO SIMOLA, Berwind, Colo. Filed Sept. 22, 1919. Serial No. 325,557. Term of patent 3½ years.



The ornamental design for surface ornamentation for a cocoanut shell or similar article, as shown.

55,722. TOY AUTOMOBILE. BERNARD W. SPITLER, Boston, Mass. Filed Feb. 24, 1920. Serial No. 361,005. Term of patent 7 years.



The ornamental design for a toy automobile as shown.

55,723. DOLL. SUE P. STARKWEATHER, Berkeley, Calif. Filed Dec. 16, 1919. Serial No. 345,407. Term of patent 7 years.



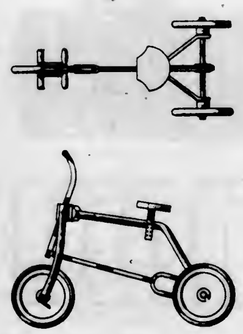
The ornamental design for a doll, as shown.

55,724. DOLL. SUE P. STARKWEATHER, Berkeley, Calif. Filed Dec. 26, 1919. Serial No. 347,613. Term of patent 7 years.



The ornamental design for a doll, as shown.

55,725. TOY VEHICLE. FRED STARR, Oakland, Calif. Filed Sept. 30, 1919. Serial No. 327,600. Term of patent 14 years.



The ornamental design for a toy vehicle as shown.

55,726. GRILL FOR TALKING-MACHINE CABINETS. WALTER F. STOLZENBURG and HERMAN R. LEUBNER, Sheboygan, Wis. Filed Apr. 26, 1920. Serial No. 376,876. Term of patent 14 years.



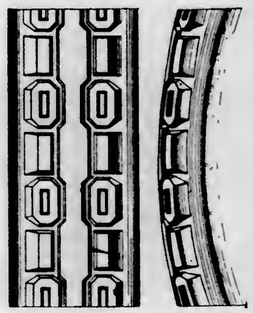
The ornamental design for a grill for talking machine cabinets as shown.

55,727. EMBROIDERED LACE COLLAR. HENRY SCHWARBER, Weehawken, N. J., assignor to Inflexible Co., West New York, N. J. Filed May 3, 1920. Serial No. 378,697. Term of patent 3½ years.



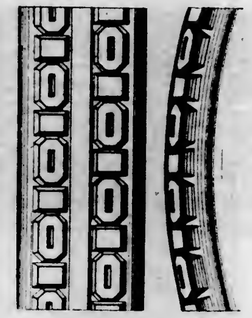
The ornamental design for an embroidered lace collar substantially as shown.

55,728. TIRE. EDGAR A. TINSMAN, Willoughby, Ohio, assignor to William C. Owen, Cleveland, Ohio. Filed Apr. 26, 1920. Serial No. 376,881. Term of patent 14 years.



The ornamental design for a tire, as shown.

55,729. TIRE. EDGAR A. TINSMAN, Willoughby, Ohio, assignor to William C. Owen, Cleveland, Ohio. Filed Apr. 26, 1920. Serial No. 376,882. Term of patent 14 years.



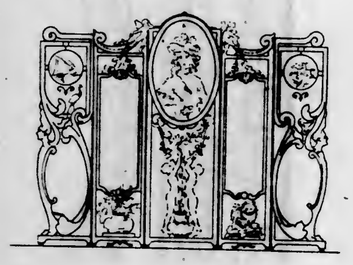
The ornamental design for a tire, as shown.

55,730. BOOT. NELSON E. TOUSLEY, Belmont, and ALLISON H. WHORF, Watertown, Mass., assignors to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Apr. 15, 1920. Serial No. 374,236. Term of patent 14 years.



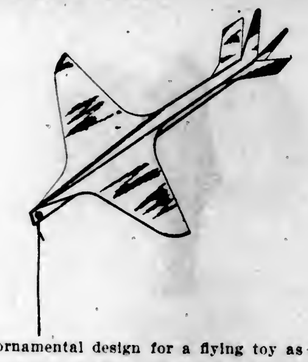
The ornamental design for a boot as shown.

55,731. SCREEN. ALFREDO VISCARDI, New York, N. Y. Filed Jan. 6, 1920. Serial No. 349,820. Term of patent 7 years.



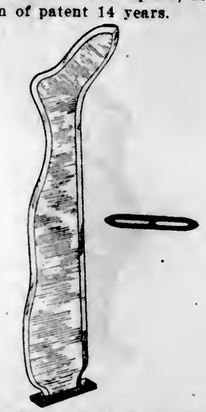
The ornamental design for a screen, as shown.

55,732. FLYING TOY. WILLIAM H. VAN SHRUM, Columbus, Ohio. Filed Sept. 15, 1919. Serial No. 324,032. Term of patent 3½ years.



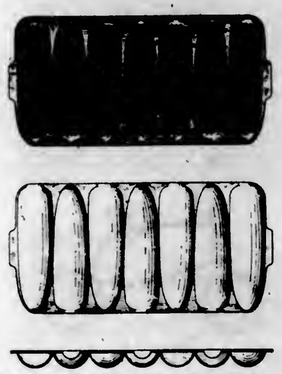
The ornamental design for a flying toy as shown.

55,733. HOSIERY-DRYING FORM. JULIUS OTTO VON STETTEN, Philadelphia, Pa., assignor to Philadelphia Metal Drying Form Company, New Castle, Del., a Corporation of Delaware. Filed Apr. 2, 1919. Serial No. 287,085. Term of patent 14 years.



The ornamental design for a hosiery drying form, as shown and described.

55,734. METAL BAKING-PAN. BERNARD P. WAGNER, Sidney, Ohio, assignor to The Wagner Manufacturing Company, Sidney, Ohio, a Corporation of Ohio. Filed Mar. 4, 1918. Serial No. 220,411. Term of patent 14 years.



The ornamental design for a metal baking pan, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 6, 1920.

[PUBLISHED JULY 8, 1920.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (h) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 110,417. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARSH-CAPRON MFG. CO., Chicago, Ill. Filed Apr. 24, 1918.

THE SHOP MULE

Particular description of goods.—Industrial Tractors.
Claims use since about Aug. 1, 1917.

Ser. No. 115,030. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE VIROCACAO COMPANY, New York, N. Y. Filed Jan. 7, 1919.



The representation of a cross shown on the drawing is printed in blue.
Particular description of goods.—Food Composition Containing Cocoa and Medicated Ingredients.
Claims use since June 21, 1917.

Ser. No. 115,342. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EYE BRAND CONFECTIONERY, INC., Brooklyn, N. Y. Filed Jan. 21, 1919.

BUTTERSCOTCHCAKES

EYE BRAND

The word "Brand" and the words "Butter Scotch Cakes" being disclaimed apart from the mark shown.
Particular description of goods.—Candies.
Claims use since Feb. 1, 1915.

Ser. No. 117,187. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL VEGETABLE OIL COMPANY, Atlanta, Ga. Filed Apr. 5, 1919.

IVOCO

Particular description of goods.—Lard Compound Composed of Cotton-Seed Oil, Oleo-Stearin, and Stearin Made from Cotton-Seed Oil, Packed in Tins, Tubs, Drums, and Tierces; Peanut-Butter Packed in Glass, Tins, and Tubs.
Claims use since Mar. 15, 1919.

Ser. No. 117,846. (CLASS 12. CONSTRUCTION MATERIALS.) MACBETH-CURTIS-MOODY COMPANY, Cleveland, Ohio. Filed Apr. 25, 1919.

SHUR-TITE

Particular description of goods.—Pipe-Joint Paste and Boiler, Pipe, and Radiator Cement.
Claims use since Feb. 1, 1919.

Ser. No. 118,055. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) V. V. LEBEDJEFF ENGINEERING & SUPPLY CORP., New York, N. Y. Filed May 1, 1919.

LESCO

Consisting of the word "Lesco."
Particular description of goods.—Steel and Steel and Iron Nail-Wire, Bright Hard Wire and Annealed Wire, Bright Soft Wire, and Galvanized and Plain Wire.
Claims use since Apr. 5, 1919.

Ser. No. 118,060. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE NATIONAL SUPPLY COMPANY, Toledo, Ohio. Filed May 1, 1919.

N.S.C.O.

Particular description of goods.—Metal Plugs for Dry Oil and Gas Wells, Metal Pipe, Pipe-Couplings, Pipe-Reducers, Pipe-Unions, Pipe-Elbows, Pipe-T's, Pipe-Crosses, Pipe-Caps, and Pipe-Nipples, Plugs for Stopping the Ends of Pipes, Pressure-Regulators for Fluids, Nuts, Bolts, Turnbuckles, Screws, Rivets, Metal Washers, Cocks and Faucets, Pipe Hangers and Saddles, Valves, Gas-Brackets, Hose Couplings and Clamps, Hose-Tips, Hinges, Sprocket-Chains, and Chain Cables.
Claims use since 1900.

Ser. No. 118,076. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BRENARD MANUFACTURING COMPANY, Iowa City, Iowa. Filed May 2, 1919.

Golden Throated Laytonola

Particular description of goods.—Phonographic Machines.
Claims use since Mar. 15, 1919.

Ser. No. 118,322. (CLASS 12. CONSTRUCTION MATERIALS.) NEWARK PLASTER COMPANY, Newark, N. J. Filed May 9, 1919.

Pilgrim Brand

The word "Brand" being disclaimed. The picture on the drawing is not a portrait, but fanciful.
Particular description of goods.—Calcined Plaster, Also Known as Plaster of Paris.
Claims use since December, 1918.

Ser. No. 119,232. (CLASS 12. CONSTRUCTION MATERIALS.) THE EDISON PORTLAND CEMENT COMPANY, West Orange and New Village, N. J., and New York, N. Y. Filed June 5, 1919.

TRADE MARK Thomas A. Edison

The trade-mark includes the autograph name "Thomas A. Edison," registered as a trade-mark in the United States Patent Office by said The Edison Portland Cement Company, the present owner of the registrations No. 42,997, July 12, 1904, and No. 53,657, June 12, 1906. No claim is made to the words "Trade Mark" and "A Product of the Edison Laboratories" apart from the mark shown in the drawing.
Particular description of goods.—Portland Cement.
Claims use since May 12, 1919.

Ser. No. 120,214. (CLASS 12. CONSTRUCTION MATERIALS.) LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo. Filed July 2, 1919.

SUPRAFRAX

Particular description of goods.—Fire-Brick and Fire-Tile.
Claims use since June 4, 1919.

Ser. No. 120,389. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) INDEPENDENT BREWING COMPANY OF PITTSBURGH, Pittsburgh, Pa. Filed July 9, 1919.

DUQUESNE

Particular description of goods.—Beverages Containing Malt and Containing Less Than One-Half of One Per Cent. of Alcohol.
Claims use since May 1, 1919.

Ser. No. 120,807. (CLASS 12. CONSTRUCTION MATERIALS.) WISCONSIN CABINET AND PANEL COMPANY, West Orange, N. J.; New London, Wis., and New York, N. Y. Filed July 22, 1919.

Edelphwood

No claim is made to the panel apart from the mark as shown in the drawing. The trade-mark has a brown background, as indicated by the shading in the drawing, surrounded by a white border.
Particular description of goods.—Wooden Panels.
Claims use since about July 12, 1919.

Ser. No. 121,262. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. AD. RICHTER & Co., New York, N. Y. Filed Aug. 4, 1919.

BAMBINO

Particular description of goods.—A Balsam for the Treatment of Constipation, Flatulency, Wind-Colic, and Diarrhea.
Claims use since July 28, 1919.

Ser. No. 121,840. (CLASS 5. ADHESIVES.) GEORGE MAYER, Chicago, Ill. Filed August 20, 1919.

LIGNOTITE

Particular description of goods.—Glue.
Claims use since June 1, 1918.

Ser. No. 122,112. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Aug. 29, 1919.

The Utility

Particular description of goods.—Electric Flatirons.
Claims use since Aug. 15, 1917.

Ser. No. 122,722. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NOCAN SOUP COMPANY, Hoboken, N. J. Filed Sept. 15, 1919.

NOCAN

Particular description of goods.—Dehydrated and Condensed Soups.
Claims use since July 31, 1919.

Ser. No. 122,878. (CLASS 17. TOBACCO PRODUCTS.) BRAMORE CIGAR CO., Boston, Mass. Filed Sept. 19, 1919.

BRAMORE

No claim being made to the pictorial representation of cigars apart from the mark shown on the drawing.
Particular description of goods.—Cigars.
Claims use since June 14, 1919, or about that date.

Ser. No. 122,968. (CLASS 38. PRINTS AND PUBLICATIONS.) MEYER BLOOMFIELD, Boston, Mass. Filed Sept. 22, 1919.

Industrial Relations
BLOOMFIELD'S LABOR DIGEST

Particular description of goods.—A Publication Issued Weekly.
Claims use since Aug. 1, 1919.

Ser. No. 123,127. (CLASS 38. PRINTS AND PUBLICATIONS.) THE LITTLE DUCHESS DRESS CO., INC., New York, N. Y. Filed Sept. 25, 1919.

"THE LITTLE DUCHESS DRESS CO."

Particular description of goods.—Style-Catalogues Published Monthly.
Claims use since May, 1906.

Ser. No. 123,209. (CLASS 12. CONSTRUCTION MATERIALS.) THE HYNDMAN ROOFING COMPANY, Cincinnati, Ohio. Filed Sept. 27, 1919.

1877

PIONEER

Particular description of goods.—Metal Roofing and Siding, All Made from Black or Galvanized Iron or Steel Sheets.

Claims use since May, 1919.

Ser. No. 124,049. (CLASS 38. PRINTS AND PUBLICATIONS.) PUBLIC LEDGER COMPANY, Philadelphia, Pa. Filed Oct. 21, 1919.

SOMEBODY'S STENOG

Particular description of goods.—A Title for an Art Feature—Namely, a Series of Cartoons Printed in Newspapers.

Claims use since December, 1918.

Ser. No. 124,135. (CLASS 12. CONSTRUCTION MATERIALS.) CLIMAX LUMBER COMPANY, LTD., New Orleans, La. Filed Oct. 24, 1919.

C-L-I-M-A-X

CLIMAX

Particular description of goods.—Rough Hardwood Lumber.

Claims use since May 1, 1919.

Ser. No. 124,448. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BENJAMIN FRANKLIN RUTH, Reading, Pa. Filed Nov. 1, 1919.

Ruthco TRADE MARK

The words "Trade Mark" appearing on the drawing are disclaimed.

Particular description of goods.—Pulverized, Paste, or Any Ready-Mixed Paints, Wood-Stains, Enamel Paints, Polishes for Varnished or Enameled Surfaces; Wood, Burlap, and Paper Fillers, Calcimines, Varnishes, Japans, and Putty.

Claims use since Oct. 31, 1919.

Ser. No. 124,866. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) OVERBAGH & AYRES MFG. CO., Chicago, Ill. Filed Nov. 13, 1919.

OAMCO

Particular description of goods.—Electric-Lighting Fixtures, Shades, and Reflectors.

Claims use since Aug. 1, 1904.

Ser. No. 125,527. (CLASS 12. CONSTRUCTION MATERIALS.) THE BEAVER COMPANY, Buffalo, N. Y. Filed Dec. 3, 1919.

GRAY MIST

Particular description of goods.—Wall-Board and Building-Paper.

Claims use since Dec. 1, 1919.

Ser. No. 125,650. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PIERRE J. H. BERNARD, Montreal, Quebec, Canada. Filed Dec. 6, 1919.

PROVIDENCE

Particular description of goods.—Electrical Air-Heating Apparatus and Parts Therefor.

Claims use since about Aug. 1, 1919.

Ser. No. 125,679. (CLASS 15. OILS AND GREASES.) AJAX OIL COMPANY, Dallas, Tex. Filed Dec. 8, 1919.

AJAX

Particular description of goods.—Fuel-Oils.

Claims use since August, 1919.

Ser. No. 125,859. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RICHARDSON DRY GOODS CO., St. Joseph, Mo. Filed Dec. 11, 1919.

Linnet

Particular description of goods.—Ribbons, Handkerchiefs, Sheets and Pillow-Cases, Veils and Veilings, Lace, Bedspreads, Art-Linens in the Piece, Table-Cloths, Napkins; Linen, Cotton, and Union Damask in the Piece and in Specific Sizes; Embroideries in the Piece, and Sheer White Fabrics in the Piece, Such as India Linen, Nainsook, Cambric, Long-Cloth, Dimities, Organdies, and Batiste.

Claims use since Oct. 15, 1919.

Ser. No. 126,021. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN GIBBS, Terre Haute, Ind. Filed Dec. 15, 1919.

GIBBS' MAN-TONE

No claim being made to the word "Gibbs" apart from the mark shown in the drawing.

Particular description of goods.—A Preparation for Treatment of Kidney, Liver, Bladder, and Sexual Debility.

Claims use since Sept. 16, 1919.

Ser. No. 126,053. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) OHIO VALLEY BOTTLING WORKS, Cincinnati, Ohio. Filed Dec. 15, 1919.

TICKLE

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks.

Claims use since Nov. 1, 1919.

Ser. No. 126,512. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GETZ BROS. & CO., San Francisco, Calif. Filed Dec. 27, 1919.

TURPSENE

Particular description of goods.—A Turpentine Substitute.

Claims use since Sept. 19, 1919.

Ser. No. 126,750. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SCOTTISH WOOLLEN TRADE MARK ASSOCIATION, LIMITED, Edinburgh, Scotland. Filed Jan. 2, 1920.

Particular description of merchandise.—Cloths and Stuffs of Wool in the Piece.

Claims use since Sept. 20, 1919.

Ser. No. 126,873. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JOSEF PABST, Zurich, Switzerland. Filed Jan. 6, 1920.

JOPA

Particular description of goods.—Necktie Holders or Supporters, Suspenders and Their Metal Parts, Garters for Stockings and Socks and Their Metal Parts.

Claims use since June 30, 1919.

Ser. No. 126,947. (CLASS 39. CLOTHING.) A. STIEGLITZ & CO. INC., New York, N. Y. Filed Jan. 8, 1920.

UNDERWEAR Worldbeeter WITH A CONSCIENCE

Particular description of goods.—Underwear Consisting of Woven and Textile Fabrics, Separate Shirts and Drawers, and Union-Suits for Men, Women, and Children.

Claims use since on or about the 30th day of August, 1919.

Ser. No. 127,133. (CLASS 38. PRINTS AND PUBLICATIONS.) THE KIWANIS CLUB, INTERNATIONAL, Chicago, Ill. Filed Jan. 14, 1920.

KIWANIS CLUB K INTERNATIONAL

Particular description of goods.—Publications Issued Monthly.

Claims use since November, 1918.

Ser. No. 127,232. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN STEEL FOUNDRIES, Chicago, Ill. Filed Jan. 17, 1920.

THE OCTAGON

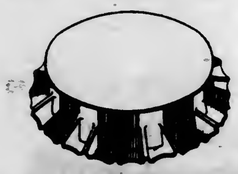
Particular description of goods.—A Monthly Publication.
Claims use since Jan. 13, 1920.

Ser. No. 127,443. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NIXON HARDWARE CO., Rome, Ga. Filed Jan. 21, 1920.



The lining in the drawing expresses shading.
Particular description of goods.—Axes, Shovels, Scoops, Spades, Handled Hoes, Hatchets, Hammers, Saws, Chisels, and Vises.
Claims use since July 1, 1919.

Ser. No. 127,512. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) JACKSON BREWING COMPANY, New Orleans, La. Filed Jan. 23, 1920.



Consists in the particular color arrangement of the coating of lacquer or varnish on the cap of the bottle containing the beverage, consisting of alternate red and white sections, as indicated in the drawing. No claim is made to the representation of the cap itself as a trade-mark, but only to the color arrangement shown.
Particular description of goods.—Bottled Malt Beverages.
Claims use since on or about Dec. 3, 1919.

Ser. No. 127,578. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CLEM LUMBER COMPANY, Dallas, Tex. Filed Jan. 26, 1920.

Clem's



The lining shown on the design is not intended to represent color.
Particular description of goods.—Mixed Paints.
Claims use since about December, 1919.

Ser. No. 127,581. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DODO BOARD COMPANY, East Cleveland, Ohio. Filed Jan. 26, 1920.

Dodo

Particular description of goods.—Games—Namely, Ring-Toss Boards and Apparatus to be Used Therewith.
Claims use since Nov. 25, 1919.

Ser. No. 127,584. (CLASS 38. PRINTS AND PUBLICATIONS.) WALTER B. FROST, Providence, R. I. Filed Jan. 26, 1920.

THE MANUFACTURING JEWELER EXPORTER

Particular description of goods.—A Periodical Publication.
Claims use since Dec. 31, 1919.

Ser. No. 127,646. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT PACKING CO. INC., San Jose, Calif. Filed Jan. 27, 1920.

JUST FRUIT BRAND

No claim being made to the word "Fruit" apart from the mark shown on the drawing. Exclusive use of the word "Brand" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits—Namely, Cherries, Apricots, Freestone Peaches, Clingstone Peaches, Pears, and Plums—and Canned Vegetables—Namely, Tomatoes.
Claims use since Aug. 11, 1919.

Ser. No. 127,697. (CLASS 15. OILS AND GREASES.) PRODUCERS & REFINERS CORPORATION, Denver, Colo. Filed Jan. 28, 1920.

PARCO

Particular description of goods.—Gasolene, Kerosene, and Lubricating-Oil.
Claims use since Sept. 15, 1916.

Ser. No. 127,787. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SUPERIOR FEED CO., Memphis, Tenn. Filed Jan. 30, 1920.



In the drawing, comprising a keystone with the letter "S" thereon, the body of the keystone is lined for blue, indicating a blue coloration, with the border and letter "S" lined for red.
Particular description of goods.—Stock, Dairy, and Poultry Feed.
Claims use since 1911.

Ser. No. 127,891. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CAIRO FOOD PRODUCTS COMPANY, Cairo, Ill. Filed Feb. 3, 1920.

GODEST-EVER

Particular description of goods.—Soda-Water.
Claims use since Nov. 15, 1919.

Ser. No. 127,926. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) LA CROSSE REFINING COMPANY, La Crosse, Wis. Filed Feb. 3, 1920.

BODEXT

Particular description of goods.—Maltose-Syrup for Use in the Manufacture of Near Beer.
Claims use since Jan. 20, 1920.

Ser. No. 127,972. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL MERVIS, Baltimore, Md. Filed Feb. 4, 1920.

MYNAIZE

No claim being made to the word "Mayonnaise"
Particular description of goods.—Russian Dressing, Salad Dressing, Olive-Naise, Mayonnaise, Tartare Sauce, and French Dressing and Goods of Similar Nature.
Claims use since Dec. 26, 1919.

Ser. No. 128,079. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE COCA-COLA BOTTLING CO., St. Louis, Mo. Filed Feb. 7, 1920.



No claim being made to the word "Grape" apart from the mark shown.
Particular description of goods.—Grape-Soda.
Claims use since Jan. 21, 1920.

Ser. No. 128,214. (CLASS 12. CONSTRUCTION MATERIALS.) LINOTOL FLOORING CO. INC., New York, and Brooklyn, N. Y. Filed Feb. 10, 1920.

LINOTOL

Particular description of goods.—Composition Flooring.
Claims use since 1912.

Ser. No. 128,340. (CLASS 38. PRINTS AND PUBLICATIONS.) ARTHUR A. BAER, Brooklyn, N. Y. Filed Feb. 13, 1920.

"BUGS" BAER

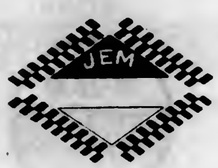
Trade-mark consists of applicant's *nom de plume*.
Particular description of goods.—Original Written Articles.
Claims use since March, 1911.

Ser. No. 128,370. (CLASS 39. CLOTHING.) REPUBLIC KNITTING MILLS, Philadelphia, Pa. Filed Feb. 13, 1920.



No claim being made to the abbreviation "Phila." apart from the mark shown.
Particular description of goods.—Men's, Ladies', Misses', Boys' and Infants' Union-Suits, Shirts, Drawers, and Vests.
Claims use since Feb. 11, 1919.

Ser. No. 128,449. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JERRY E. MARCEAU, Fitchburg, Mass. Filed Feb. 16, 1920.



Particular description of goods.—Ginger-Ale.
Claims use since Dec. 1, 1919.

Ser. No. 128,467. (CLASS 38. PRINTS AND PUBLICATIONS.) STAR COMPANY, New York, N. Y. Filed Feb. 16, 1920.

NEW YORK EVENING JOURNAL

Particular description of goods.—Newspaper-Section.
Claims use since January, 1920.

Ser. No. 128,471. (CLASS 45. BEVERAGES, NON-ALCOHOLIC. THE STARK TUSCARAWAS CO., Canton, Ohio. Filed Feb. 16, 1920.

Tuscora

Particular description of goods.—A Non-Intoxicating Cereal Malt Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as a Soft Drink.
Claims use since June 1, 1919.

Ser. No. 128,548. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIK MAID BAKE SHOPS, St. Paul, Minn. Filed Feb. 18, 1920.

Electrik-Maid

Particular description of goods.—Bakers' Electric Oven.
Claims use since on or about Sept. 1, 1919.

Ser. No. 128,981. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK RUSSO and ANTONIO CAVALLARE, Rivesville, W. Va. Filed Feb. 27, 1920.

SUCO SAVIA

Particular description of goods.—A Preparation for the Treatment of Rheumatism.
Claims use since the 12th day of December, 1919.

Ser. No. 129,019. (CLASS 12. CONSTRUCTION MATERIALS.) NEBRASKA MATERIAL COMPANY, Lincoln, Nebr. Filed Feb. 28, 1920.

FINISH · COAT



FLINTSTONE

"Flintstone," shown in the accompanying drawing, no claim being made to the words "Finish-Coat, Asbestos, Cement, Stucco, Lincoln, Nebraska" apart from the mark shown on the drawing.
Particular description of goods.—Cement Stucco.
Claims use since Oct. 1, 1919.

Ser. No. 129,045. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CELRO-KOLA CO., Portland, Oreg. Filed Mar. 1, 1920.



Particular description of goods.—Concentrated Syrup Used in the Making of Non-Alcoholic Non-Cereal Maltless Beverages, Sold as Soft Drinks.
Claims use since Nov. 6, 1919.

Ser. No. 129,445. (CLASS 17. TOBACCO PRODUCTS.) HENRY CLAY AND BOCK & CO. LTD., New York, N. Y. Filed Mar. 9, 1920.



Particular description of goods.—Cigars.
Claims use since 1864.

Ser. No. 129,620. (CLASS 17. TOBACCO PRODUCTS.) ALEXANDER BOGUSLAVSKY, LIMITED, London, England. Filed Mar. 13, 1920.

BEAU RICH

Particular description of goods.—Smoking-Tobacco, Cigars, and Cigarettes.
Claims use since June 1, 1917.

Ser. No. 129,652. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.

BUCKSKIN

Particular description of goods.—Brisling and Sild, (Frequently Known Generically as Sardines.)
Claims use since about 1917.

Ser. No. 129,678. (CLASS 17. TOBACCO PRODUCTS.) ROTH TOBACCO COMPANY, Cape Girardeau, Mo. Filed Mar. 13, 1920.

OLD SCALEY
Uncle Charley's

Particular description of goods.—Smoking and Chewing Tobacco.
Claims use since Feb. 8, 1919.

Ser. No. 129,694. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GEORGE WM. BRADY, Chicago, Ill. Filed Mar. 15, 1920.

CELLOSILK

Consists of the word "Cellosilk."
Particular description of goods.—A Chemical Tissue for Use as a Surgical Dressing.
Claims use since Oct. 22, 1917.

Ser. No. 129,799. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE E. L. PATCH CO., Stoneham, Mass. Filed Mar. 16, 1920.

ZIN-TABS

The word "Zin-Tabs."
Particular description of goods.—Ginger-Tea Tablets.
Claims use since Jan. 28, 1920.

Ser. No. 129,847. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) KEELEY BREWING CO., Chicago, Ill. Filed Mar. 17, 1920.

Ye Olde Inn

Particular description of goods.—A Malt Non-Intoxicating Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as a Soft Drink.
Claims use since Feb. 18, 1920.

Ser. No. 129,936. (CLASS 39. CLOTHING.) L. LEVINE AND SONS, Cincinnati, Ohio. Filed Mar. 19, 1920.

STYLE Le Vine QUALITY

Applicant disclaims any right to the exclusive use of the words "Style" and "Quality" as shown in the drawing.
Particular description of goods.—Women's and Misses' Clothing Consisting of Dresses, Skirts for Outer Wear, Suits, and Waists for Outer Wear.
Claims use since Dec. 15, 1919.

Ser. No. 129,962. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN ELECTRIC CO., Chicago, Ill. Filed Mar. 20, 1920.

Samson

Particular description of goods.—Electric Horns.
Claims use since 1909.

Ser. No. 130,071. (CLASS 39. CLOTHING.) J. LESTER SHAPIRO, Brooklyn, N. Y. Filed Mar. 22, 1920.

LESTER SHOES

Consisting of the words "Lester Shoes" and the representation of a shoe, the word "Lester" being arranged upon a panel, the serif of the initial letter of the same underscoring the balance of the word "Lester," and the complete design being in form of a shield, no claim being made to the exclusive use of the word "Shoes" and the representation of a shoe apart from the mark as shown in the drawing.
Particular description of goods.—Shoes.
Claims use since about Feb. 8, 1913.

Ser. No. 130,112. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WENCK & CO., New York, N. Y. Filed Mar. 23, 1920.

THE "WENCO" "BUTTONKIT"

No claim is made to the word "ButtonKit" apart from the arrangement shown in the drawing.
Particular description of goods.—An Outfit Consisting of Garment-Buttons and Attaching-Thread.
Claims use since January, 1917.

Ser. No. 130,199. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. BENJAMIN & SONS, New York, N. Y. Filed Mar. 26, 1920.

La Bandiera

Particular description of goods.—Olive-Oil.
Claims use since about Oct. 1, 1919.

Ser. No. 130,204. (CLASS 39. CLOTHING.) L. D. BOYD, Louisville, Ky. Filed Mar. 26, 1920.

BLUEGRASS



Particular description of goods.—Hosiery.
Claims use since Mar. 3, 1920.

Ser. No. 130,484. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MILLER AND HUNOLD, Providence, R. I. Filed Apr. 1, 1920.



Particular description of goods.—Charms, Pendants, and Ornaments for Neck-Chains.
Claims use since Mar. 20, 1920.

Ser. No. 130,691. (CLASS 39. CLOTHING.) A. STEIN & COMPANY, Chicago, Ill. Filed Apr. 5, 1920.

HICKORY



Particular description of goods.—Children's Waists and Union-Suits.
Claims use since about March, 1918.

Ser. No. 130,694. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ST. ALBANS GRAIN COMPANY, St. Albans, Vt. Filed Apr. 5, 1920.



No claim being made to the words "High Grade Flour" and "St. Albans, Vt." apart from the mark shown in the drawing.
Particular description of goods.—Flour and Cornmeal.
Claims use since Mar. 10, 1919.

Ser. No. 130,757. (CLASS 11. INKS AND INKING MATERIALS.) SILAS W. FRY, New York, N. Y. Filed Apr. 7, 1920.

IRON CLAD

Particular description of goods.—All Kinds and Grades of Typewriter-Ribbons and Carbon-Papers.
Claims use since Sept. 1, 1908.

Ser. No. 130,812. (CLASS 39. CLOTHING.) EISEMAN BROS. MFG. CO., St. Louis, Mo. Filed Apr. 8, 1920.

Echo Maid

Particular description of goods.—Women's and Children's Dresses.
Claims use since Mar. 1, 1920.

Ser. No. 130,923. (CLASS 39. CLOTHING.) F. A. PATRICK & CO., Duluth, Minn. Filed Apr. 9, 1920.

La Patrice

Particular description of goods.—Blouses, Dress-Waists, Shirtwaists, Kimonos, Sweaters, and Shawls.
Claims use since Nov. 10, 1919.

Ser. No. 130,977. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NEW YORK BOYS' SHOPS, INC., New York, N. Y. Filed Apr. 10, 1920.



The picture forming a feature of the mark being fanciful.
Particular description of goods.—Suspenders, Garters, Armbands, Belts for Personal Wear, Collar-Buttons, and Combs.
Claims use since Sept. 6, 1919.

Ser. No. 131,089. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE REX METAL PRODUCTS COMPANY, Brooklyn, N. Y. Filed Apr. 13, 1920.

Rexcraft

Particular description of goods.—Bugles, Trombones, Reverse-Horns, Tally-Ho Horns, Trumpets, Whistles, and Horns.
Claims use since Mar. 1, 1920.

Ser. No. 131,143. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FRATELLI BERTARALLI, Milan, Italy. Filed Apr. 15, 1920.

Victoria SIMS

Particular description of goods.—Typewriting-Machines.
Claims use since Apr. 28, 1919.

Ser. No. 131,269. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMUEL HYMES & SONS, New York, N. Y. Filed Apr. 17, 1920.

EILEEN

Consisting of the word "Eileen."
Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 9, 1920.

Ser. No. 131,278. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES. THE MASTERTONE PHONOGRAPH COMPANY, East Liverpool, Ohio. Filed Apr. 17, 1920.

Major-Tone

Particular description of goods.—Phonographs.
Claims use since July 17, 1919.

Ser. No. 131,279. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE MASTERTONE PHONOGRAPH COMPANY, East Liverpool, Ohio. Filed Apr. 17, 1920.

Keynote

Particular description of goods.—Phonographs.
Claims use since July 17, 1919.

Ser. No. 131,290. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION CUTLERY CO., Olean, N. Y. Filed Apr. 17, 1920.

LIGHTNING

Particular description of goods.—Pocket-Cutlery, Razors, Shears, and Butcher-Knives.
Claims use since Feb. 1, 1920.

Ser. No. 131,317. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE OMAR CO., Chicago, Ill. Filed Apr. 19, 1920.

OMAR

Particular description of goods.—Root-Beer.
Claims use since Jan. 2, 1920.

Ser. No. 131,335. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KAFFEE HAG CORPORATION, New York, N. Y. Filed Apr. 19, 1920.

CAFFREE

Particular description of goods.—Decaffeinated Coffee.
Claims use since Apr. 2, 1920.

Ser. No. 131,446. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NACHES COLD STORAGE CO., Yakima, Wash. Filed Apr. 21, 1920.

AVIATION

Particular description of goods.—Fresh Apples and Pears.
Claims use since June, 1919.

Ser. No. 131,509. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SOUTHERN BEVERAGE COMPANY, Galveston, Tex. Filed Apr. 22, 1920.

JULO

Particular description of goods.—Non-Alcoholic Beverages in the Form of a Syrup or Carbonated in Bottles and Including the Following Flavors: Fruit, Lemon, Lime, Orange, Mint, Grape, and Cherry.
Claims use since Feb. 16, 1920.

Ser. No. 131,535. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. PNEUMATIC THROTTLE VALVE CO., Boston, Mass. Filed Apr. 23, 1920.

LITTLEWIT

Particular description of goods.—Throttle-Valves for Pneumatic Tools.
Claims use since Mar. 1, 1920.

Ser. No. 131,545. (CLASS 11. INKS AND INKING MATERIALS.) WATERS AND WATERS MANUFACTURING COMPANY, St. Louis, Mo. Filed Apr. 23, 1920.

TRADE MARK

No claim is made to the words "Trade Mark" apart from the mark shown in the drawing.
Particular description of goods.—Carbon-Paper and Inked Ribbons.
Claims use since Feb. 1, 1920.

Ser. No. 131,564. (CLASS 37. PAPER AND STATIONERY.) COLUMBIA POSTAL SUPPLY COMPANY, Silver Creek, N. Y. Filed Apr. 24, 1920.

Jibby

Particular description of goods.—Hand Devices for Stamp-Canceling and Postmarking.
Claims use since Feb. 18, 1920.

Ser. No. 131,599. (CLASS 12. CONSTRUCTION MATERIALS.) RUDOLPH GREENSTEIN, New York, N. Y. Filed Apr. 24, 1920.

PRESERVOL
CONCRETE HARDENER

No claim is made to the words "Concrete Hardener" apart from the mark shown in the drawing.
Particular description of goods.—Concrete-Hardener.
Claims use since Mar. 1, 1920.

Ser. No. 131,618. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AMERICAN SPEED-O-FEEDER COMPANY, Akron, Ohio. Filed Apr. 26, 1920.

Speed-o-feeder

Particular description of goods.—Device to be Used in Connection with Feeding Envelops to Typewriting-Machines.
Claims use since Mar. 15, 1919.

Ser. No. 131,645. (CLASS 39. CLOTHING.) THE M. & M. COMPANY, Scranton, Pa. Filed Apr. 26, 1920.



No claim being made herein to the words "Tweed-O-Wool" apart from the mark shown.
Particular description of goods.—Coats, Trousers, Vests, Overcoats, Outer Skirts, and Suits for Men, Women, and Children.
Claims use since about Nov. 1, 1917.

Ser. No. 131,696. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) W. H. BAGSHAW CO., Lowell, Mass. Filed Apr. 27, 1920.

FINE-S-TONE

Particular description of goods.—Phonographic Needles.
Claims use since Apr. 12, 1920.

Ser. No. 131,716. (CLASS 46. FOODS AND INGREDIENTS OF FOODS. WALLACE & CO., Brooklyn, N. Y. Filed Apr. 27, 1920.

Pat-A-Mints

The exclusive right to the word "Mints" being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Candies.
Claims use since Apr. 1, 1920.

Ser. No. 131,774. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUSATH'S CANDY SHOP, INC., Louisville, Ky. Filed Apr. 29, 1920.

The Original Modjeska Caramel
BUSATH

No claim being made to the words "The Original Caramel."
Particular description of goods.—Candy—Namely, Caramels.
Claims use since about September, 1900.

Ser. No. 131,803. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) FELIX LAUTER, Albany, N. Y. Filed Apr. 29, 1920.

EBOLITE

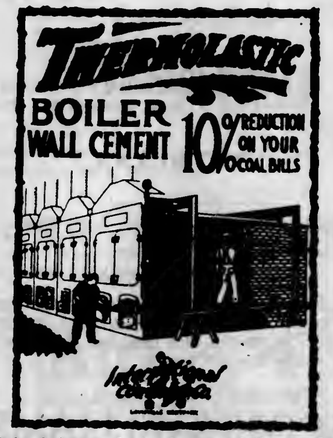
Particular description of goods.—Pearls, Neck and Watch Chains, Necklaces, and Cameos and Cameo-Shells.
Claims use since Apr. 12, 1920.

Ser. No. 131,815. (CLASS 12. CONSTRUCTION MATERIALS.) MAUDE MABEL CASAMER, Louisville, Ky. Filed Apr. 29, 1920.



No claim being made to the use of the words "Roof Coating," "Coatings Co.," and "Louisville, Kentucky" apart from the mark shown.
Particular description of goods.—A Thick Liquid or Plastic Roof-Coating.
Claims use since about November, 1917.

Ser. No. 131,816. (CLASS 12. CONSTRUCTION MATERIALS.) MAUDE MABEL CASAMER, Louisville, Ky. Filed Apr. 29, 1920.



No claim being made to the use of the words "Boiler Wall Cement," "10% Reduction on Your Coal Bills," "Coatings Co.," and "Louisville, Kentucky" apart from the mark shown.
Particular description of goods.—Boiler-Wall Cement or Coating Having Heat-Insulating Properties.
Claims use since about November, 1917.

Ser. No. 131,822. (CLASS 39. CLOTHING.) NEW HAVEN KNITTING MILLS, INC., New Haven, Conn. Filed Apr. 29, 1920.

UNEEKA

Particular description of goods.—Hosiery.
Claims use since Apr. 20, 1920.

Ser. No. 131,921. (CLASS 39. CLOTHING.) ROGERS PEET COMPANY, New York, N. Y. Filed May 1, 1920.

"SOLIGHT"

Consisting of the word "Solight."
Particular description of goods.—Men's Hats and Caps.
Claims use since Apr. 19, 1920.

Ser. No. 132,000. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BORDEN BROTHERS AND CO., LTD., Tom's Brook, Va. Filed May 4, 1920.

VALLEY TRIUMPH

Particular description of goods.—Wheat-Flour.
Claims use since Apr. 21, 1920.

Ser. No. 132,001. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BALLARD AND BALLARD COMPANY, Louisville, Ky. Filed May 4, 1920.



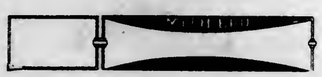
Particular description of goods.—Flour, Prepared Flour, Wheat-Flour, Pancake-Flour, Biscuit-Flour, and Buckwheat-Flour.
Claims use since July, 1919.

Ser. No. 132,013. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed May 4, 1920.

COINAGE

Particular description of goods.—Writing-Paper.
Claims use since January, 1920.

Ser. No. 122,031. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH BROS., Port Washington, Wis. Filed May 4, 1920.



No claim being made to the words "Smith Bros." aside from the mark shown.

Particular description of goods. — Fish Products — Namely, Fish-Caviar, Fish-Oils, Canned Fish, and Smoked Fish.

Claims use since Jan. 1, 1920.

Ser. No. 132,049. (CLASS 38. PRINTS AND PUBLICATIONS.) JULIUS ROEHRS CO., Rutherford, N. J. Filed May 5, 1920.

A Book
from the
Sign of the Tree
by Name
THE-TEN-TEN

Particular description of goods.—An Annual Catalogue.
Claims use since 1917.

Ser. No. 132,079. (CLASS 39. CLOTHING.) HENRY M. BARON, Chicago, Ill. Filed May 6, 1920.

PEGGY CUT UP

Particular description of goods.—Clothing—Namely, Children's Dresses.
Claims use since Jan. 15, 1920.

Ser. No. 132,104. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDSON MOORE & COMPANY, Detroit, Mich. Filed May 6, 1920.

"Unit"

Particular description of goods.—Manufactured Blankets of All Cotton, Cotton and Wool, and All Wool.
Claims use since Nov. 15, 1919.

Ser. No. 132,105. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MERCHANT & EVANS COMPANY, Philadelphia, Pa. Filed May 6, 1920.

M & E

Particular description of goods.—Grease-Cups.
Claims use since 1910.

Ser. No. 132,110. (CLASS 39. CLOTHING.) O'GORMAN, WADE & POWERS CO., Boston, Mass. Filed May 6, 1920.

PIXIE

Particular description of goods.—Dresses.
Claims use since Apr. 22, 1920.

Ser. No. 132,122. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed May 6, 1920.

SEALASKA

Consists of the word "Sealaska."
Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, and Hats.
Claims use since Jan. 15, 1920.

Ser. No. 132,126. (CLASS 37. PAPER AND STATIONERY.) WILLIAM S. TUTTLE, Rutland, Vt. Filed May 6, 1920.

TUTBLANX

Particular description of goods.—Legal Blanks.
Claims use since March, 1920.

Ser. No. 132,151. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SCOTT & WILLIAMS INCORPORATED, New York, N. Y. Filed May 7, 1920. Under ten-year proviso.

SCOTT&WILLIAMS

Particular description of goods.—Knitting-Machines, Knitting-Machine Attachments, and Knitting-Machine Parts.
Claims use since Mar. 1, 1892.

Ser. No. 132,205. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SUNDERMAN CORPORATION, Newburgh, N. Y. Filed May 8, 1920.

JAXALL

Particular description of goods.—Jacks.
Claims use since Jan. 6, 1920.

Ser. No. 132,208. (CLASS 39. CLOTHING.) SEARS, ROEBUCK & COMPANY, Chicago, Ill. Filed May 8, 1920.

HERCULES

Particular description of goods.—Men's Work-Shirts.
Claims use since 1910.

Ser. No. 132,238. (CLASS 38. PRINTS AND PUBLICATIONS.) FUNK & WAGNALLS COMPANY, New York, N. Y. Filed May 10, 1920.

TOPICS - OF - THE - DAY

Particular description of goods.—A Section of a Periodical Published Weekly.
Claims use since July 28, 1894.

Ser. No. 132,296. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CATHOLIC MISSIONARY UNION, Brookland, D. C. Filed May 11, 1920.

The Missionary

Particular description of goods.—Monthly Publication.
Claims use since 1896.

Ser. No. 132,348. (CLASS 38. PRINTS AND PUBLICATIONS.) EDWARD J. ELBURY, San Francisco, Calif. Filed May 12, 1920.



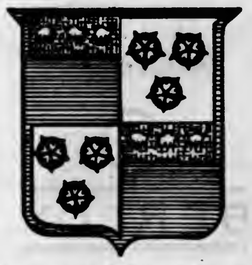
Particular description of goods.—Printed Booklet Published Annually.
Claims use since about Mar. 1, 1920.

Ser. No. 132,366. (CLASS 39. CLOTHING.) SANGER BROTHERS, INC., Dallas, Tex. Filed May 12, 1920.

T.K.
Texas Kid

Particular description of goods.—Overalls, Hosiery, and Dresses for Ladies and Misses, Hats and Caps for Men and Women, Dress and Work Shirts for Men, Blouses for Women and Children; Undershirts and Drawers for Men, Women, and Children; Union-Suits, and Work-Clothing for Men and Boys.
Claims use since February, 1917.

Ser. No. 132,385. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GRAHAM BROTHERS, Evansville, Ind. Filed May 13, 1920.



The portions of the shield shaded for color on the drawing indicate blue and gold.
Particular description of goods.—Tractors.
Claims use since about Jan. 2, 1920.

Ser. No. 132,424. (CLASS 38. PRINTS AND PUBLICATIONS.) WALTER F. BARTSCH, Washington, D. C. Filed May 14, 1920.

FATTY AND SHORTY

Particular description of goods.—Cartoons.
Claims use since about Apr. 20, 1920.

Ser. No. 132,445. (CLASS 39. CLOTHING.) PIONEER PRODUCTS, INC., New York, N. Y. Filed May 14, 1920.

Air - Peds

Particular description of goods.—Rubber or Fiber Soles and Heels.
Claims use since Feb. 1, 1920.

Ser. No. 132,456. (CLASS 39. CLOTHING.) JOSEPH P. VOORHEES, New York, N. Y. Filed May 14, 1920.



Particular description of goods.—Hosiery.
Claims use since Apr. 15, 1920.

Ser. No. 132,460. (CLASS 39. CLOTHING.) BENDER-ZIMMER COMPANY, Milwaukee, Wis. Filed May 15, 1920.

BZCo

Particular description of goods.—Knit Goods—Namely, Knit-Sweaters, Knit Hockey-Caps, Knit Tassel-Caps, Knit Toques, Knit Tam-O'-Shanters, Knit Aviation-Caps, Knit Bathing-Suits, Knit Gloves, Knit Mittens, and Knit Hosiery.
Claims use since Aug. 1, 1912.

Ser. No. 132,502. (CLASS 12. CONSTRUCTION MATERIALS.) THE BERGER MANUFACTURING COMPANY, Canton, Ohio. Filed May 17, 1920.

B
BERLOY

Particular description of goods.—Metal Ceilings.
Claims use since Jan. 7, 1920.

Ser. No. 132,540. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LIBERTY KNIFE COMPANY, New Haven, Conn. Filed May 17, 1920.

LIBERTY

Particular description of goods.—Pocket-Knives.
Claims use since May 12, 1919.

Ser. No. 132,549. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NASH ENGINEERING CO., South Norwalk, Conn. Filed May 17, 1920.

HYTOR

Particular description of goods.—Vacuum-Heating Pumps, Air-Compressors, Gas-Compressors, Boiler Feed-Pumps, Flexible Couplings for Turbines, and Turbine-Engines.
Claims use since June 1, 1919.

Ser. No. 132,747. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LAKE SUPERIOR LOADER CO., Duluth, Minn. Filed May 21, 1920.

SHUVELODER

Particular description of goods.—Mechanical Shovels.
Claims use since Mar. 26, 1920.

Ser. No. 132,757. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SUPREME MOTORS CORPORATION, Warren, Ohio. Filed May 21, 1920.

SUPREME

Particular description of goods.—Internal-Combustion Engines and Their Parts.
Claims use since Apr. 21, 1920.

Ser. No. 132,768. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AKTIEBOLAGET SPRITMOTORER, Uppsala, Sweden. Filed May 22, 1920.

ASMO

Particular description of goods.—Internal-Combustion Engines and Parts Thereof, Particularly Carbureters.
Claims use since May 24, 1919.

Ser. No. 132,820. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. SIMONDS MANUFACTURING COMPANY, Fitchburg, Mass. Filed May 22, 1920.



SKENANDOAH

Particular description of goods.—Saws.
Claims use since 1903.

Ser. No. 132,821. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIMONDS MANUFACTURING COMPANY, Fitchburg, Mass. Filed May 22, 1920.

HIAWATHA



Particular description of goods.—Saws.
Claims use since 1906.

Ser. No. 132,861. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WILLIAM W. HOLLAND, Wood River, Ill. Filed May 24, 1920.

CY-RO-NA

Particular description of goods.—Base-Metal Alloys.
Claims use since May 11, 1920.

Ser. No. 133,108. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIMONDS MANUFACTURING COMPANY, Fitchburg, Mass. Filed May 29, 1920.



Particular description of goods.—Saws.
Claims use since 1915.

Ser. No. 133,359. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo. Filed June 7, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since July 10, 1900.

Ser. No. 133,364. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo. Filed June 7, 1920.

Dixie Dream



Particular description of goods.—Wheat-Flour.
Claims use since July 10, 1919.

Ser. No. 133,366. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo. Filed June 7, 1920.

"TESORO"

Particular description of goods.—Wheat-Flour.
Claims use since Sept. 10, 1917.

Ser. No. 133,368. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo. Filed June 7, 1920.

"MIMOSA"

Particular description of goods.—Wheat-Flour.
Claims use since Sept. 10, 1917.

Ser. No. 133,375. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALMINE COMPANY, INC., Dobbs Ferry and New York, N. Y. Filed June 7, 1920.

PAL-O-MINE

Particular description of goods.—Oleomargarin.
Claims use since May 28, 1920.

Ser. No. 133,517. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CARTER CARBURETOR COMPANY, St. Louis, Mo. Filed June 10, 1920.

PUTS THE STEADY HUM
IN MOTORDOM

Particular description of goods.—Carbureters.
Claims use since May 4, 1920.

Ser. No. 133,518. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CARTER CARBURETOR COMPANY, St. Louis, Mo. Filed June 10, 1920.



Particular description of goods.—Carbureters.
Claims use since May 4, 1920.

TRADE-MARK REGISTRATIONS GRANTED

JULY 6, 1920.

132,872. ACETYLENE CUTTING AND WELDING MACHINES, ACETYLENE-LIGHTING PLANTS, AND STEAM-BOILERS. ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y.
Filed October 28, 1919. Serial No. 124,244. PUBLISHED APRIL 13, 1920.

132,873. ISOLATED ELECTRIC-LIGHTING PLANTS, ELECTRIC-STORAGE-BATTERY LOCOMOTIVES, AND ELECTRICALLY-OPERATED SHOVELS. ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y.
Filed October 28, 1919. Serial No. 124,247. PUBLISHED APRIL 6, 1920.

132,874. TIMEPIECES. FRANK W. ALTER, Chicago, Ill.
Filed November 13, 1919. Serial No. 124,835. PUBLISHED APRIL 6, 1920.

132,875. TIMEPIECES. FRANK W. ALTER, Chicago, Ill.
Filed November 13, 1919. Serial No. 124,837. PUBLISHED APRIL 6, 1920.

132,876. FERTILIZER. THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York, N. Y.
Filed May 16, 1919. Serial No. 118,537. PUBLISHED APRIL 13, 1920.

132,877. CANDY. AMERICAN CANDY COMPANY, Milwaukee, Wis.
Filed February 10, 1920. Serial No. 128,191. PUBLISHED APRIL 13, 1920.

132,878. [WITHDRAWN.]

132,879. ZINC ROOFING IN THE FORM OF PLATES AND SHEETS. THE AMERICAN ZINC PRODUCTS COMPANY, Greencastle, Ind.
Filed January 3, 1920. Serial No. 126,757. PUBLISHED APRIL 6, 1920.

132,880. DENTAL AND SURGICAL MIRRORS, HEAD-MIRRORS, LARYNGEAL MIRRORS, AND RETINOSCOPES. ALEXANDER A. ANZELL, New York, N. Y.
Filed September 26, 1919. Serial No. 123,150. PUBLISHED JANUARY 20, 1920.

132,881. CERTAIN NAMED ELECTRICALLY-LIGHTED LAMPS, TORCHÈRES, LANTERNS, AND CANDELABRA. ART LAMP MFG. CO., Chicago, Ill.
Filed October 28, 1919. Serial No. 124,254. PUBLISHED MARCH 23, 1920.

132,882. FRUIT AND FRESH VEGETABLES IN THEIR NATURAL STATE. ATLANTIC COAST DISTRIBUTORS, Charleston, S. C.
Filed September 26, 1919. Serial No. 123,194. PUBLISHED APRIL 6, 1920.

132,883. PREPARATION FOR MAKING CAKE. ATMORE & SON, INC., Philadelphia, Pa.
Filed January 20, 1920. Serial No. 127,346. PUBLISHED APRIL 6, 1920.

132,884. VARNISH-PAINT. THE AULT & WIBORG CO., Cincinnati, Ohio.
Filed December 13, 1919. Serial No. 125,926. PUBLISHED MARCH 23, 1920.

132,885. VARNISH-PAINT. THE AULT & WIBORG CO., Cincinnati, Ohio.
Filed December 13, 1919. Serial No. 125,927. PUBLISHED MARCH 16, 1920.

132,886. VARNISH-PAINT. THE AULT & WIBORG CO., Cincinnati, Ohio.
Filed December 13, 1919. Serial No. 125,929. PUBLISHED MARCH 23, 1920.

132,887. VARNISH-PAINT. THE AULT & WIBORG CO., Cincinnati, Ohio.
Filed December 13, 1919. Serial No. 125,933. PUBLISHED MARCH 16, 1920.

132,888. VARNISH-PAINT. THE AULT & WIBORG CO., Cincinnati, Ohio.
Filed December 13, 1919. Serial No. 125,936. PUBLISHED MARCH 16, 1920.

132,889. LADIES' KNITTED DRESS GOODS KNOWN AS JERSEY CLOTH, IN THE PIECE. C. BAHNSEN & CO. INC., New York, N. Y.
Filed January 6, 1920. Serial No. 126,842. PUBLISHED APRIL 13, 1920.

132,890. WOVEN, PRINTED, AND DYED DRAPERY FABRICS. ALFRED M. BARBE, New York, N. Y.
Filed January 7, 1920. Serial No. 126,894. PUBLISHED APRIL 13, 1920.

132,891. CANNED VEGETABLES. J. E. BARR PICKLING & PRESERVING COMPANY, St. Cloud, Minn.
Filed February 9, 1920. Serial No. 128,134. PUBLISHED APRIL 13, 1920.

132,892. CANNED VEGETABLES. J. E. BARR PICKLING & PRESERVING COMPANY, St. Cloud, Minn.
Filed February 9, 1920. Serial No. 128,135. PUBLISHED APRIL 13, 1920.

132,893. WATCH AND CLOCK DIALS. JAMES R. BARTLETT, New York, N. Y.
Filed September 22, 1919. Serial No. 122,957. PUBLISHED APRIL 13, 1920.

132,894. HANDKERCHIEFS. HYMAN BAUMAN & CO., New York, N. Y.
Filed November 22, 1919. Serial No. 125,170. PUBLISHED APRIL 20, 1920.

132,895. NON-FERROUS METAL IN THE FORM OF SHEETS, CASTINGS, AND FORGINGS. BAUSCH MACHINE TOOL COMPANY, Springfield, Mass.
Filed December 12, 1919. Serial No. 125,875. PUBLISHED APRIL 6, 1920.

132,896. BILLIARD-CUE TIPS. NORMAN E. BENSINGER, Chicago, Ill.
Filed November 22, 1919. Serial No. 125,168. PUBLISHED MARCH 2, 1920.

132,897. WATCHES. WILLIAM J. BERNARD, New York, N. Y.
Filed November 18, 1919. Serial No. 125,046. PUBLISHED APRIL 6, 1920.

132,898. TOY VEHICLE—VIZ., COASTER. RICHARD H. BLACKBURN, Jersey City, N. J.
Filed November 1, 1919. Serial No. 124,434. PUBLISHED FEBRUARY 10, 1920.

132,899. TOOTH, NAIL, HAIR, BATH, AND FACE BRUSHES. A. BOURJOIS & CO., INC., New York, N. Y.
Filed August 9, 1919. Serial No. 121,441. PUBLISHED DECEMBER 23, 1919.

132,900. FOOD-FLAVORING CREAM AND NUTMEG. THE BROWN CHEMICAL CO., St. Louis, Mo.
Filed February 3, 1920. Serial No. 127,889. PUBLISHED APRIL 13, 1920.

132,901. MAITRE-CORD. BROWNELL & COMPANY, Moodus, Conn.
Filed November 10, 1919. Serial No. 124,712. PUBLISHED MARCH 2, 1920.

132,902. BOWLING-BALLS. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed November 24, 1919. Serial No. 125,215. PUBLISHED MARCH 16, 1920.

132,903. WATCHES FOR MEN AND LADIES. J. BULOVA COMPANY, New York, N. Y.
Filed December 10, 1919. Serial No. 125,768. PUBLISHED APRIL 6, 1920.

132,904. MEN'S AND LADIES' WATCHES. J. BULOVA COMPANY, New York, N. Y.
Filed December 10, 1919. Serial No. 125,769. PUBLISHED APRIL 6, 1920.

132,905. MEN'S AND LADIES' WATCHES. J. BULOVA COMPANY, New York, N. Y.
Filed December 11, 1919. Serial No. 125,822. PUBLISHED APRIL 6, 1920.

132,906. MEN'S AND LADIES' WATCHES. J. BULOVA COMPANY, New York, N. Y.
Filed December 11, 1919. Serial No. 125,824. PUBLISHED APRIL 6, 1920.

132,907. ELECTRIC FUSES AND CUT-OUTS. BUSSMANN MANUFACTURING COMPANY, St. Louis, Mo.
Filed January 24, 1920. Serial No. 127,538. PUBLISHED APRIL 6, 1920.

132,908. WHEAT-FLOUR. T. L. CARROLL COMPANY, Gothenburg, Nebr.
Filed February 20, 1920. Serial No. 128,664. PUBLISHED APRIL 13, 1920.

132,909. KNITTING-YARN. CARVER-BEAVER YARN CO., INC., New York, N. Y.
Filed January 31, 1920. Serial No. 127,796. PUBLISHED APRIL 13, 1920.

132,910. ALCOHOL-STOVES. FRANK CHAPMAN, Providence, R. I.
Filed September 5, 1919. Serial No. 122,340. PUBLISHED APRIL 13, 1920.

132,911. FABRICS OF SILK AND SILK MIXTURES IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed September 25, 1919. Serial No. 123,108. PUBLISHED APRIL 6, 1920.

132,912. MEN'S, WOMEN'S, AND CHILDREN'S OUTER GARMENTS. COHEN GOLDMAN & CO. INC., New York, N. Y.
Filed January 12, 1920. Serial No. 127,036. PUBLISHED APRIL 13, 1920.

132,913. THREAD USED IN THE MANUFACTURE OF SHOES AND FOR SIMILAR PURPOSES. COMMONWEALTH THREAD CO., INC., Boston, Mass.
Filed November 17, 1919. Serial No. 124,974. PUBLISHED APRIL 13, 1920.

132,914. THREAD USED IN THE MANUFACTURE OF SHOES AND FOR SIMILAR PURPOSES. COMMONWEALTH THREAD CO. INC., Boston, Mass.
Filed November 17, 1919. Serial No. 124,975. PUBLISHED APRIL 13, 1920.

132,915. ROSE-PLANTS. THE CONARD & JONES COMPANY, West Grove, Pa.
Filed November 13, 1919. Serial No. 124,842. PUBLISHED APRIL 13, 1920.

132,916. WROUGHT TOOL-STEEL, WROUGHT-STEEL, WROUGHT-IRON, STEEL CASTINGS, AND TOOL-STEELS. THE CONNECTICUT ELECTRIC STEEL CO., INC., Hartford, Conn.
Filed November 20, 1919. Serial No. 125,105. PUBLISHED APRIL 6, 1920.

132,917. GRASS AND FIELD SEEDS. CONTINENTAL SEED COMPANY, Chicago, Ill.
Filed December 10, 1919. Serial No. 125,773. PUBLISHED APRIL 13, 1920.

132,918. CERTAIN NAMED LINIMENTS, LOTIONS, SALVES, OINTMENTS, AND POWDERS USED IN TREATING HORSES AND CATTLE. THE CONVERSE SUPPLY COMPANY, Converse, Mo.
Filed January 25, 1919. Serial No. 115,415. PUBLISHED MARCH 23, 1920.

132,919. SWEAT-CABINET AND AN EXERCISING APPARATUS. JACK COOPER, New York, N. Y.
Filed October 1, 1919. Serial No. 123,307. PUBLISHED MARCH 2, 1920.

132,920. FISHING-LINES. CORTLAND LINE CO. INC., Cortland, N. Y.
Filed June 21, 1919. Serial No. 119,822. PUBLISHED DECEMBER 30, 1919.

132,921. CANDY. CLARENCE A. CRANE, Cleveland, Ohio.
Filed October 2, 1919. Serial No. 123,339. PUBLISHED APRIL 6, 1920.

132,922. BROOMS. CROCKER BROOM AND BRUSH CO., Chicago, Ill.
Filed May 19, 1919. Serial No. 118,656. PUBLISHED MARCH 23, 1920.

132,923. FRESH VEGETABLES. CROWN PACKING COMPANY, Los Angeles, Calif.
Filed February 3, 1920. Serial No. 127,900. PUBLISHED APRIL 13, 1920.

132,924. FISHING RODS, HOOKS, NETS, LINES, REELS, CANS, BASKETS, FLOATS, ARTIFICIAL BAIT, AND BUOYS. CUMBERLAND (AYLESTONE), LIMITED, Leicester, England.
Filed October 1, 1919. Serial No. 123,303. PUBLISHED APRIL 13, 1920.

132,925. CLOTHESLINES. CHARLES C. DAVIS, Chicago, Ill.
Filed February 3, 1920. Serial No. 127,901. PUBLISHED APRIL 20, 1920.

132,926. COFFEE. LESTER H. DAVIS, Lindsborg, Kans.
Filed January 31, 1920. Serial No. 127,798. PUBLISHED APRIL 13, 1920.

132,927. AUTOMATIC RELIEF-VALVES FOR STEAM-ENGINE CYLINDERS. DEW VALVE CO., INC., New York, N. Y.
Filed December 19, 1919. Serial No. 126,247. PUBLISHED APRIL 6, 1920.

132,928. FIRELESS COOKERS. THE DILLER MFG. CO., Bluffton, Ohio.
Filed February 24, 1920. Serial No. 128,765. PUBLISHED APRIL 13, 1920.

132,929. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES, MADE OF PRECIOUS METAL OR BASE METAL OR OF BASE METAL PLATED WITH PRECIOUS METAL. DISTINCTIVE JEWELRY CO., INC., New York, N. Y.
Filed November 4, 1919. Serial No. 124,516. PUBLISHED APRIL 6, 1920.

132,930. WATCHES. DUBOIS WATCH CASE COMPANY, Brooklyn, N. Y.
Filed February 1, 1919. Serial No. 115,566. PUBLISHED APRIL 6, 1920.

132,931. LEATHER, AND PARTICULARLY KID-LEATHER. DUNCAN, HOOD & CO., INC., Philadelphia, Pa.
Filed September 23, 1919. Serial No. 123,022. PUBLISHED APRIL 13, 1920.

132,932. WOMEN'S HIGH AND LOW SHOES MADE OF LEATHER AND CLOTH. THE DUTTENHOFER-STEVENS CO., Cincinnati, Ohio.
Filed December 15, 1919. Serial No. 126,013. PUBLISHED APRIL 13, 1920.

132,933. PURE FRUIT JAM, PURE FRUIT PRESERVES, PURE FRUIT JELLY, AND TABLE-SYRUP. W. H. DYER COMPANY, Evansville, Ind.
Filed September 15, 1919. Serial No. 122,691. PUBLISHED APRIL 6, 1920.

132,934. ARC AND INCANDESCENT ELECTRIC LAMPS. ENERGY ELECTRIC COMPANY, Haverhill, Mass.
Filed December 10, 1919. Serial No. 125,778. PUBLISHED MARCH 30, 1920.

132,935. COFFEE, TEA, SPICES, MUSTARD, SALAD-OIL, PEANUT-BUTTER, SALAD-DRESSING, AND FLAVORING EXTRACTS FOR FOODS. DAVID G. EVANS COFFEE COMPANY, St. Louis, Mo.
Filed January 27, 1920. Serial No. 127,637. PUBLISHED APRIL 13, 1920.

132,936. ELASTIC WEBS. FAIRE BROS. & CO. LIMITED, Leicester, England.
Filed April 21, 1919. Serial No. 117,655. PUBLISHED APRIL 20, 1920.

132,937. ELASTIC WEBS. FAIRE BROS. & CO. LIMITED, Leicester, England.
Filed April 21, 1919. Serial No. 117,656. PUBLISHED APRIL 20, 1920.

132,938. DOLL-BUGGIES. CHARLES M. FARRER, Seattle, Wash.
Filed October 30, 1919. Serial No. 124,338. PUBLISHED APRIL 6, 1920.

132,939. BROOMS, BRUSHES, AND MOPS. GEO. A. FINK CO., New York, N. Y.
Filed December 17, 1919. Serial No. 126,176. PUBLISHED APRIL 13, 1920.

132,940. ARTIFICIAL TEETH. GEORGE FLINT, Philadelphia, Pa.
Filed October 30, 1919. Serial No. 124,339. PUBLISHED FEBRUARY 3, 1920.

132,941. FLEXIBLE PROTECTIVE FACINGS OR COVERINGS FOR WATCH AND CLOCK DIALS. IRVING FLORMAN, New York, N. Y.
Filed August 23, 1919. Serial No. 121,929. PUBLISHED APRIL 6, 1920.

132,942. MALLEABLE-IRON CASTINGS. FORT PITT MALLEABLE IRON CO., Pittsburgh and McKees Rocks, Pa.
Filed October 25, 1919. Serial No. 124,174. PUBLISHED APRIL 13, 1920.

132,943. SPARKING PLUGS FOR INTERNAL-COMBUSTION ENGINES. THE FORWARD SPARKING PLUG Co., Birmingham, England.
Filed November 8, 1919. Serial No. 124,681. PUBLISHED APRIL 6, 1920.

132,944. METAL VALVES FOR GENERAL USE, PUMP-GOVERNORS, AND PRESSURE-REDUCING VALVES. FRAMINGHAM MANUFACTURING COMPANY, Framingham, Mass.
Filed October 21, 1919. Serial No. 124,046. PUBLISHED APRIL 13, 1920.

132,945. BALES OR BAGS OF WASTE COTTON, WASTE SILK AND WOOLEN RAGS, AND WASTE PAPER. MAURICE FRANK, New York, N. Y.
Filed November 13, 1919. Serial No. 124,853. PUBLISHED APRIL 13, 1920.

132,946. PAPER FIBER. MAURICE B. FREDERICKS, New York, N. Y.
Filed November 22, 1919. Serial No. 125,176. PUBLISHED APRIL 13, 1920.

132,947. DRY-CELL BATTERIES. FRENCH BATTERY & CARBON CO., Madison, Wis.
Filed January 5, 1920. Serial No. 126,794. PUBLISHED APRIL 6, 1920.

132,948. TANK-CARS. GENERAL AMERICAN TANK CAR CORPORATION, Chicago, Ill.
Filed December 26, 1919. Serial No. 126,469. PUBLISHED APRIL 13, 1920.

132,949. ELECTRIC INCANDESCENT LAMPS. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed January 13, 1915. Serial No. 83,821. PUBLISHED APRIL 6, 1920.

132,950. POWDER-PUFFS. ANGELO GIGLIO, New York, N. Y.
Filed November 26, 1919. Serial No. 125,325. PUBLISHED APRIL 6, 1920.

132,951. HOSIERY. W. T. GRANT CO., New York, N. Y.
Filed February 6, 1920. Serial No. 128,045. PUBLISHED APRIL 13, 1920.

132,952. HANDKERCHIEFS. SAMUEL I. GROSS, New York, N. Y.
Filed September 30, 1919. Serial No. 123,282. PUBLISHED APRIL 13, 1920.

132,953. WATCHES. THE D. GRUEN SONS & COMPANY, Cincinnati, Ohio.
Filed March 25, 1918. Serial No. 100,766. PUBLISHED APRIL 13, 1920.

132,954. TOY SOLDIERS, TOY DISHES, AND TOY FURNITURE. FERDINAND GUTMANN & CO., New York, N. Y.
Filed August 28, 1918. Serial No. 112,912. PUBLISHED NOVEMBER 25, 1919.

132,955. BLANK NAME-PLATES AND BLANK INSTRUCTION-PLATES. HANDLEY PAGE LIMITED, London, England.
Filed January 6, 1920. Serial No. 126,859. PUBLISHED APRIL 6, 1920.

132,956. AEROPLANE COVERS AND TENTS. HANDLEY PAGE LIMITED, London, England.
Filed January 6, 1920. Serial No. 126,860. PUBLISHED APRIL 13, 1920.

132,957. COFFEE. THE E. C. HARLEY COMPANY, Dayton, Ohio.
Filed February 3, 1920. Serial No. 127,914. PUBLISHED APRIL 13, 1920.

132,958. COFFEE. THE E. C. HARLEY COMPANY, Dayton, Ohio.
Filed February 3, 1920. Serial No. 127,916. PUBLISHED APRIL 13, 1920.

132,959. CARPETS. HARROD'S STORES, LTD., London, England.
Filed December 15, 1919. Serial No. 126,026. PUBLISHED APRIL 13, 1920.

132,960. HEEL-PLATES AND TOE-PLATES FOR SHOES. LEO HASEL, San Francisco, Calif.
Filed October 31, 1919. Serial No. 124,408. PUBLISHED APRIL 13, 1920.

132,961. BRASSIÈRES. CLARA V. HAVENS, New York, N. Y.
Filed January 17, 1920. Serial No. 127,244. PUBLISHED APRIL 13, 1920.

132,962. STOVEPIPES AND STOVEPIPE-ELBOWS. HEMP & CO. (CORP.), St. Louis, Mo.
Filed December 17, 1919. Serial No. 126,180. PUBLISHED APRIL 13, 1920.

132,963. STOVEPIPES AND STOVEPIPE-ELBOWS. HEMP & CO. (CORP.), St. Louis, Mo.
Filed December 18, 1919. Serial No. 126,216. PUBLISHED APRIL 13, 1920.

132,964. STOVEPIPE AND STOVEPIPE-ELBOW. HEMP & CO. (CORP.), St. Louis, Mo.
Filed December 19, 1919. Serial No. 126,251. PUBLISHED APRIL 13, 1920.

132,965. CANNED FRUITS — NAMELY, CHERRIES, APRICOTS, PEACHES, PEARS, AND PLUMS, AND CANNED VEGETABLES — NAMELY, TOMATOES. HERBERT PACKING CO. INC., San Jose, Calif.
Filed January 27, 1920. Serial No. 127,645. PUBLISHED APRIL 13, 1920.

132,966. CANNED FRUITS—NAMELY, PLUM, APRICOTS, PEACHES, PEARS, AND CANNED VEGETABLES—NAMELY, TOMATOES. HERBERT PACKING CO., INC., San Jose, Calif.
Filed January 27, 1920. Serial No. 127,649. PUBLISHED APRIL 13, 1920.

132,967. WORSTED AND WOOLEN TEXTILE FABRICS, IN THE PIECE. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed December 24, 1919. Serial No. 126,414. PUBLISHED APRIL 13, 1920.

132,968. WORSTED AND WOOLEN TEXTILE FABRICS, IN THE PIECE. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed December 24, 1919. Serial No. 126,415. PUBLISHED APRIL 13, 1920.

132,969. CARD GAMES. FITZ-JAMES HOOD, Bartow, Fla.
Filed October 15, 1919. Serial No. 123,809. PUBLISHED MARCH 2, 1920.

132,970. CANDIES. HAWLEY & HOOPS, New York, N. Y.
Filed February 12, 1920. Serial No. 128,301. PUBLISHED APRIL 13, 1920.

132,971. CORN PRODUCTS, OATMEAL, WHOLE-WHEAT FLOUR, AND PREPARED FEEDS FOR CATTLE AND HOGS. HENRY HOWSON, Glenmoore, Pa.
Filed March 26, 1918. Serial No. 109,799. PUBLISHED APRIL 6, 1920.

132,972. ADHESIVE PASTE. IDEAL PASTE & CHEMICAL WORKS, Cleveland, Ohio.
Filed September 13, 1919. Serial No. 122,637. PUBLISHED MARCH 30, 1920.

132,973. CERTAIN NAMED ELECTRICAL MACHINERY. THE IMPERIAL ELECTRIC CO., Akron, Ohio.
Filed February 3, 1920. Serial No. 127,919. PUBLISHED APRIL 6, 1920.

132,974. ROPE, CORD, TWINE, AND BINDER-TWINE. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill.
Filed December 13, 1919. Serial No. 125,957. PUBLISHED APRIL 13, 1920.

132,975. WOVEN TEXTILE OR FIBER FLOOR-MATS. EDMOND JACKSON, Newport News, Va.
Filed December 19, 1919. Serial No. 126,253. PUBLISHED APRIL 20, 1920.

132,976. CURTAIN-WINDOW FOR AUTOMOBILE-CURTAINS. WM. R. JOHNSTON MFG. CO., Chicago, Ill.
Filed September 15, 1917. Serial No. 106,261. PUBLISHED APRIL 13, 1920.

132,977. SHAVING-BRUSHES. KAMPFE BROS., Brooklyn, N. Y.
Filed October 31, 1919. Serial No. 124,410. PUBLISHED APRIL 6, 1920.

132,978. SHAVING-BRUSHES. KAMPFE BROS., Brooklyn, N. Y.
Filed October 31, 1919. Serial No. 124,411. PUBLISHED APRIL 6, 1920.

132,979. SHAWL-COAT. LOUIS KATZMAN INC., New York, N. Y.
Filed January 17, 1920. Serial No. 127,247. PUBLISHED APRIL 13, 1920.

132,980. SEMITRAILERS. KING TRAILER COMPANY, Ann Arbor, Mich.
Filed January 26, 1920. Serial No. 127,593. PUBLISHED APRIL 13, 1920.

132,981. CHILD'S TOY VEHICLE OF THE AUTOMOBILE TYPE. EDWARD G. KITZ, Oshkosh, Wis.
Filed November 21, 1919. Serial No. 125,158. PUBLISHED FEBRUARY 24, 1920.

132,982. WATCHES. KNICKERBOCKER WATCH CO., New York, N. Y.
Filed December 6, 1919. Serial No. 125,661. PUBLISHED APRIL 6, 1920.

132,983. MEN'S FLANNEL SHIRTS, WORK-SHIRTS, NIGHT-SHIRTS, AND PAJAMAS. A. KROLIK & COMPANY, Detroit, Mich., and New York, N. Y.
Filed February 7, 1920. Serial No. 128,100. PUBLISHED APRIL 13, 1920.

132,984. HIDES AND LEATHER. KULLMAN, SALZ & Co., San Francisco, Calif.
Filed March 14, 1919. Serial No. 116,573. PUBLISHED APRIL 13, 1920.

132,985. TABLE-SYRUP. THE L. AND T. COMPANY, Oakland, Calif.
Filed August 2, 1919. Serial No. 121,207. PUBLISHED APRIL 13, 1920.

132,986. WHEAT-FLOUR. LAWRENCEBURG ROLLER MILLS Co., Lawrenceburg, Ind.
Filed July 23, 1919. Serial No. 120,835. PUBLISHED APRIL 6, 1920.

132,987. ELECTRIC ACCUMULATORS OR SECONDARY BATTERIES. HENRY LEITNER & WILLIAM HERBERT EXLEY, London, England.
Filed April 29, 1919. Serial No. 117,982. PUBLISHED MARCH 30, 1920.

132,988. DOUGHNUTS. S. G. LEOFFLER, Jr., Washington, D. C.
Filed January 16, 1920. Serial No. 127,229. PUBLISHED APRIL 13, 1920.

132,989. FABRIC MADE WITH A COTTON WARP AND A FILLING OF WOOL OR MOHAIR OR ALPACA. LESHER, WHITMAN & Co., INC., New York, N. Y.
Filed November 10, 1919. Serial No. 124,721. PUBLISHED APRIL 20, 1920.

132,990. TOOTHBRUSHES. MAURICE LEVY, New York, N. Y.
Filed November 22, 1919. Serial No. 125,189. PUBLISHED MARCH 2, 1920.

132,991. THREAD AND YARN. H. E. LOCKE & COMPANY, INC., Boston, Mass.
Filed August 9, 1919. Serial No. 121,513. PUBLISHED APRIL 13, 1920.

132,992. LETTERS OR NUMBERS, MADE OF HIGHLY-GLAZED PORCELAIN BLOCKS. CHAS. F. LORENZEN & Co., Chicago, Ill.
Filed June 4, 1919. Serial No. 119,198. PUBLISHED APRIL 13, 1920.

132,993. LETTERS OR NUMBERS, MADE OF HIGHLY-GLAZED PORCELAIN BLOCKS. CHAS. F. LORENZEN & Co., Chicago, Ill.
Filed June 18, 1919. Serial No. 119,740. PUBLISHED APRIL 13, 1920.

132,994. STORAGE BATTERIES AND PARTS THEREOF. ARTHUR H. LYONS, Philadelphia, Pa.
Filed November 22, 1919. Serial No. 125,188. PUBLISHED APRIL 6, 1920.

132,995. STORAGE BATTERIES AND PARTS THEREOF. ARTHUR H. LYONS, Philadelphia, Pa.
Filed January 22, 1920. Serial No. 127,482. PUBLISHED APRIL 6, 1920.

132,996. ELECTROMEDICAL SWITCHBOARD FOR ELECTRIC-BATH USE. MCINTOSH BATTERY & OPTICAL CO., Chicago, Ill.
Filed September 19, 1919. Serial No. 122,903. PUBLISHED JANUARY 20, 1920.

132,997. BROOMS AND CERTAIN NAMED BRUSHES. MICHAEL MARCUS, New York, N. Y.
Filed August 12, 1919. Serial No. 121,596. PUBLISHED JANUARY 13, 1920.

132,998. UNITARY ELECTRIC PLANTS. THE MATTHEWS ENGINEERING CO., Sandusky, Ohio.
Filed November 3, 1919. Serial No. 124,486. PUBLISHED APRIL 6, 1920.

132,999. ELECTRIC LAMPS. MAXWELL-RAY COMPANY, Milwaukee, Wis.
Filed August 1, 1919. Serial No. 121,180. PUBLISHED APRIL 13, 1920.

133,000. CLOCK-DIAL. MAYCLESE, New York, N. Y.
Filed October 4, 1914. Serial No. 123,444. PUBLISHED APRIL 6, 1920.

133,001. MECHANICAL DEVICES USED AS AN AID TO HEARING. E. B. MEYROWITZ, INC., New York, N. Y.
Filed June 27, 1919. Serial No. 120,009. PUBLISHED APRIL 6, 1920.

133,002. COAL-BURNING HEATERS AND FURNACES. MICHIGAN SERVICE CORPORATION, Jackson, Mich.
Filed December 3, 1919. Serial No. 125,556½. PUBLISHED APRIL 13, 1920.

133,003. CERTAIN NAMED PIECE GOODS. J. A. MIGEL, INC., New York, N. Y.
Filed July 28, 1919. Serial No. 121,009. PUBLISHED APRIL 13, 1920.

133,004. RUBBER WATER-BAGS AND RUBBER BOTTLES. THE MILLER RUBBER COMPANY, Akron, Ohio.
Filed December 13, 1919. Serial No. 125,964. PUBLISHED APRIL 13, 1920.

133,005. WATER-BOTTLES, SYRINGE-BAGS, COMBINATION-SYRINGES, AND RUBBER TUBES. THE MILLER RUBBER CO., Akron, Ohio.
Filed January 17, 1920. Serial No. 127,254. PUBLISHED MARCH 16, 1920.

133,006. ELECTRIC HAIR-CLIPPERS, ELECTRIC MOTORS, AND ELECTRIC HAIR-DRIERS. THE MOORE ELECTRIC CORPORATION, Chicago, Ill.
Filed October 29, 1919. Serial No. 124,309. PUBLISHED APRIL 6, 1920.

133,007. GOWNS. JOSEPH NEMSER, New York, N. Y.
Filed January 6, 1920. Serial No. 126,871. PUBLISHED APRIL 13, 1920.

133,008. WOVEN AND KNITTED UNION-SUITS FOR MEN, WOMEN, AND CHILDREN. NEUSTADTER BROTHERS, San Francisco, Calif.
Filed January 5, 1920. Serial No. 126,816. PUBLISHED APRIL 13, 1920.

133,009. BROOMS. NEWTON BROOM COMPANY, Newton, Ill.
Filed July 21, 1919. Serial No. 120,768. PUBLISHED JANUARY 6, 1920.

133,010. MANICURE SETS SOLD AS A UNIT. NORTHAM WARREN CORPORATION, New York, N. Y.
Filed November 1, 1919. Serial No. 124,462. PUBLISHED MARCH 23, 1920.

133,011. CANDIED NUT-BARS. NORTHWESTERN CANDY COMPANY, Waterloo, Iowa.
Filed December 8, 1919. Serial No. 125,719. PUBLISHED APRIL 6, 1920.

133,012. CERTAIN NAMED FLAT-WARE PLATED WITH PRECIOUS METAL. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y.
Filed January 9, 1919. Serial No. 115,072. PUBLISHED APRIL 6, 1920.

133,013. CERTAIN NAMED FLAT-WARE PLATED WITH PRECIOUS METAL. ONEIDA COMMUNITY LIMITED, Oneida, N. Y.
Filed August 25, 1919. Serial No. 121,990. PUBLISHED MARCH 30, 1920.

133,014. FLAT-WARE PLATED WITH PRECIOUS METAL. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y.
Filed September 25, 1919. Serial No. 123,138. PUBLISHED APRIL 6, 1920.

133,015. WINDSHIELD-CLEANERS OF THE SQUEEGEE TYPE. THE OUTLOOK COMPANY, Cleveland, Ohio.
Filed November 14, 1919. Serial No. 124,915. PUBLISHED APRIL 13, 1920.

133,016. HIGH-POTENTIAL-ELECTRICITY-ARRESTER ELECTRODES. FREDERICK R. PARKER, Chicago, Ill.
Filed November 5, 1919. Serial No. 124,577. PUBLISHED APRIL 6, 1920.

133,017. POWDER-PUFFS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed January 6, 1920. Serial No. 126,874. PUBLISHED MARCH 30, 1920.

133,018. DOLLS. GENEVIEVE PFEFFER, San Jose, Calif.
Filed February 1, 1918. Serial No. 108,753. PUBLISHED MARCH 16, 1920.

133,019. TOY AEROPLANES. PERCY PIERCE, Philadelphia, Pa.
Filed October 30, 1919. Serial No. 124,354. PUBLISHED FEBRUARY 24, 1920.

133,020. TOY FURNITURE. ROBERT W. PORTER, Mobile, Ala.
Filed September 13, 1919. Serial No. 122,656. PUBLISHED JANUARY 6, 1920.

133,021. WIPING AND CLEANING APPARATUS FOR AUTOMOBILE WIND-SHIELDS, &c. THE PRESTO-FELT MFG. CO., Toledo, Ohio.
Filed October 15, 1919. Serial No. 123,825. PUBLISHED APRIL 6, 1920.

133,022. NARROW WOVEN FABRICS MADE UP IN LENGTHS RANGING FROM TEN YARDS TO FORTY YARDS. CHARLES PROSNITZ, Mount Vernon and New York, N. Y.
Filed January 7, 1920. Serial No. 126,907. PUBLISHED MARCH 20, 1920.

133,023. PAINTERS' BRUSHES, SHAVING-BRUSHES, FLOOR-BROOMS, AND COUNTER-DUSTERS. J. C. PUSHEE & SONS, Boston, Mass.
Filed August 8, 1919. Serial No. 121,413. PUBLISHED MARCH 23, 1920.

133,024. BUNTING. CHAS. H. REED, New York, N. Y.
Filed January 13, 1920. Serial No. 127,098. PUBLISHED APRIL 13, 1920.

133,025. SHINE-REMOVING BRUSHES. ALOIS J. RHEINBERGER, New York, N. Y.
Filed October 15, 1919. Serial No. 123,826. PUBLISHED MARCH 30, 1920.

133,026. HOSIERY. RODGERS HOSIERY COMPANY, INCORPORATED, Philadelphia, Pa.
Filed January 15, 1920. Serial No. 127,186. PUBLISHED APRIL 13, 1920.

133,027. PLAYING-CARDS. ROOT PLAYING CARD CO., Chicago, Ill.
Filed November 24, 1919. Serial No. 125,242. PUBLISHED FEBRUARY 3, 1920.

133,028. NON-INTOXICATING, CEREAL BEVERAGES. EDGAR L. ROPKINS, Hartford, Conn.
Filed August 29, 1919. Serial No. 122,135. PUBLISHED JANUARY 27, 1920.

133,029. WATCHCASES. ROY WATCH CASE COMPANY, New York, N. Y.
Filed December 16, 1919. Serial No. 126,138. PUBLISHED APRIL 6, 1920.

133,030. PLAYING-CARDS. WILLIAM DUDLEY ROY, Belleview, Tenn.
Filed August 28, 1919. Serial No. 122,085. PUBLISHED APRIL 6, 1920.

133,031. SPARK-PLUGS. RUMMELL MANUFACTURING WORKS, Findlay, Ohio.
Filed October 10, 1919. Serial No. 123,661. PUBLISHED APRIL 6, 1920.

133,032. NAPKIN-HOLDERS COMMERCIALLY KNOWN AS SANITARY BELTS. SANAHO SPECIALTY COMPANY, Phoenix, Ariz.
Filed December 5, 1919. Serial No. 125,630. PUBLISHED APRIL 13, 1920.

133,033. CHOCOLATES. SCHALL'S INC., Clinton, Iowa.
Filed February 11, 1920. Serial No. 128,280. PUBLISHED APRIL 13, 1920.

133,034. DRILLS AND SHIRTINGS. WILLIAM SCHALL & Co., New York, N. Y.
Filed September 5, 1919. Serial No. 122,370. PUBLISHED APRIL 13, 1920.

133,035. CANDY. SCHULER CHOCOLATE FACTORY, INC., Winona, Minn.
Filed February 3, 1920. Serial No. 127,935. PUBLISHED APRIL 13, 1920.

133,036. CANDY. SCHULER CHOCOLATE FACTORY, INC., Winona, Minn.
Filed February 7, 1920. Serial No. 128,114. PUBLISHED APRIL 13, 1920.

133,037. VOILES IN THE PIECE. MAX SCHWARZ, New York, N. Y.
Filed November 17, 1919. Serial No. 125,036. PUBLISHED APRIL 13, 1920.

133,038. WHEAT-FLOUR. THE SCOTT COUNTY MILLING COMPANY, Sikeston, Mo.
Filed February 24, 1920. Serial No. 128,864. PUBLISHED APRIL 13, 1920.

133,039. DOLLS. ELSIE SHAVER, New York, N. Y.
Filed December 2, 1919. Serial No. 125,515. PUBLISHED MARCH 9, 1920.

133,040. MEN'S AND LADIES' FURNISHING GOODS, HOSIERY, AND NOTIONS. SHUSHAN BROS. & CO., New Orleans, La.
Filed June 4, 1919. Serial No. 119,211. PUBLISHED FEBRUARY 3, 1920.

133,041. MACARONI, SPAGHETTI, AND NOODLES. PAUL FRANCIS SKINNER, Omaha, Nebr.
Filed January 27, 1920. Serial No. 127,664. PUBLISHED APRIL 13, 1920.

133,042. WATCHES AND PARTS THEREOF. SOCIÉTÉ ANONYME LES FILS DE L. BRAUNSCHWEIG, FABRIQUE ELECTION, La-Chaux-de-Fonds, Switzerland.
Filed November 2, 1918. Serial No. 114,028. PUBLISHED APRIL 6, 1920.

133,043. LADIES' AND MISSES' DRESSES. MANNIE SOLOMON COMPANY, New York, N. Y.
Filed December 22, 1919. Serial No. 126,328. PUBLISHED APRIL 13, 1920.

133,044. CATAMENIAL BANDAGE. STACY DAVIS TRUMBO, Columbus, Ohio.
Filed September 13, 1919. Serial No. 122,669. PUBLISHED APRIL 6, 1920.

133,045. DIGESTER-TANKAGE, A FOOD FOR STOCK. STANDARD BY-PRODUCTS CO., INCORPORATED, Louisville, Ky.
Filed May 20, 1919. Serial No. 118,745. PUBLISHED APRIL 6, 1920.

133,046. HOUSE OR APRON DRESSES. STERLING MANUFACTURING COMPANY, Chicago, Ill.
Filed February 7, 1920. Serial No. 128,117. PUBLISHED APRIL 13, 1920.

133,047. VARNISHES FOR ELECTRIC INSULATION. THE STERLING VARNISH COMPANY, Pittsburgh, Pa.
Filed July 26, 1919. Serial No. 120,975. PUBLISHED APRIL 6, 1920.

133,048. SPARK-PLUGS. THE STITT IGNITION CO., Columbus, Ohio.
Filed August 28, 1919. Serial No. 122,088. PUBLISHED APRIL 13, 1920.

133,049. TOY SAVINGS-BANKS. MELVILLE STOLTZ, St. Louis, Mo.
Filed November 28, 1919. Serial No. 125,405. PUBLISHED MARCH 16, 1920.

133,050. IGNITION-WIRE CONDUITS. ELLIS V. STUART, Indianapolis, Ind.
Filed December 10, 1919. Serial No. 125,809. PUBLISHED APRIL 6, 1920.

133,051. ELECTRIC BATTERIES. STUART PRODUCTS CORPORATION, Chicago, Ill.
Filed November 17, 1919. Serial No. 125,032. PUBLISHED APRIL 6, 1920.

133,052. MERCERIZED COTTON THREAD OR YARN. SUMMIT THREAD COMPANY, East Hampton, Conn.
Filed December 20, 1919. Serial No. 126,292. PUBLISHED APRIL 13, 1920.

133,053. HAT-BRUSHES. ROBERT SWISKY, Chicago, Ill.
Filed November 5, 1919. Serial No. 124,580. PUBLISHED APRIL 6, 1920.

133,054. CLINICAL THERMOMETERS, SPHYGMOMANOMETERS, HYPODERMIC NEEDLES, AND HYPODERMIC SYRINGES. CHARLES J. TAGLIABUE MFG. CO., Brooklyn, N. Y.
Filed January 14, 1919. Serial No. 115,191. PUBLISHED MARCH 30, 1920.

133,055. CLINICAL THERMOMETERS, SPHYGMOMANOMETERS, HYPODERMIC NEEDLES, AND HYPODERMIC SYRINGES. CHARLES J. TAGLIABUE MFG. CO., Brooklyn, N. Y.
Filed January 14, 1919. Serial No. 115,192. PUBLISHED MARCH 30, 1920.

133,056. WHEAT-FLOUR. W. P. TANNER-GROSS. & COMPANY, INC., New York, N. Y.
Filed January 31, 1920. Serial No. 127,812. PUBLISHED APRIL 13, 1920.

133,057. WASH OR SPRAY FOR THE TREATMENT OF THE MOUTH AND THROAT. OWEN HILARY TANSEY, Montreal, Canada.
Filed February 8, 1918. Serial No. 108,900. PUBLISHED MARCH 16, 1920.

133,058. BRAIDED ROPE. TATE MANUFACTURING COMPANY, Boston, Mass.
Filed October 24, 1919. Serial No. 124,155. PUBLISHED JANUARY 27, 1920.

133,059. SILK RIBBONS IN THE PIECE. THE TAYLOR-FRIEDSAM COMPANY, Paterson, N. J., and New York, N. Y.
Filed January 17, 1920. Serial No. 127,269. PUBLISHED APRIL 13, 1920.

133,060. ELECTRIC INSULATORS MADE OF PORCELAIN. TAYLOR, TUNNICLIFF AND COMPANY LIMITED, Hanley, England.
Filed December 9, 1919. Serial No. 125,763. PUBLISHED APRIL 6, 1920.

133,061. SOLVENT OR SOFTENER TO FACILITATE THE CLEANING OF CERTAIN NAMED ARTICLES. THREE IN ONE OIL COMPANY, Rahway, N. J., and New York, N. Y.
Filed August 9, 1919. Serial No. 121,489. PUBLISHED DECEMBER 23, 1919.

133,062. PEARL JEWELRY FOR PERSONAL ADORNMENT AND PEARLS. DELL W. THOMAS, Seattle, Wash.
Filed January 7, 1920. Serial No. 126,912. PUBLISHED MARCH 30, 1920.

133,063. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES; PRECIOUS STONES, AND FLAT AND HOLLOW WARE MADE OF OR PLATED WITH PRECIOUS METAL. TIFFANY & COMPANY, New York, N. Y.
Filed January 9, 1920. Serial No. 126,975. PUBLISHED MARCH 23, 1920.

133,064. LEATHER HIDES. THE TROPICS CORPORATION, New York, N. Y.
Filed January 31, 1920. Serial No. 127,844. PUBLISHED APRIL 13, 1920.

133,065. GOLF-PUTTERS. TRU-AIM MANUFACTURING COMPANY, Chicago, Ill.
Filed October 20, 1919. Serial No. 124,023. PUBLISHED MARCH 9, 1920.

133,066. CERTAIN NAMED DEHYDRATED VEGETABLES AND CERTAIN NAMED DEHYDRATED FRUITS. TWIN FALLS DEHYDRATING CO., Twin Falls, Idaho.
Filed December 15, 1919. Serial No. 126,076. PUBLISHED APRIL 6, 1920.

133,067. SILK AND COTTON PIECE GOODS AND COMBINATIONS OF THE SAME. TURNER & WALLS, New York, N. Y.
Filed December 13, 1919. Serial No. 125,984. PUBLISHED APRIL 13, 1920.

133,068. CERTAIN NAMED DENTAL, MEDICAL, AND SURGICAL APPLIANCES. UNITED DRUG COMPANY, Boston, Mass.
Filed February 28, 1919. Serial No. 116,223. PUBLISHED JANUARY 27, 1920.

133,069. ETHYL ALCOHOL. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y.
Filed February 1, 1918. Serial No. 108,760. PUBLISHED DECEMBER 30, 1919.

133,070. PLAYING-CARDS. THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Ohio.
Filed October 23, 1919. Serial No. 124,129. PUBLISHED MARCH 9, 1920.

133,071. PLAYING-CARDS. THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Ohio.
Filed November 1, 1919. Serial No. 124,456. PUBLISHED FEBRUARY 10, 1920.

133,072. DENTAL DAM, SURGEONS' GLOVES, LIGHT ACID-GLOVES, SEAMLESS NIPPLES, AND NIPPLES USED IN NURSING SHEEP. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed August 23, 1919. Serial No. 121,949. PUBLISHED JANUARY 20, 1920.

133,073. BURS AND BROACHES USED WITH DENTAL HANDPIECES FOR PREPARING CAVITIES. USONA DENTAL COMPANY, INC., Ogdensburg, N. Y.
Filed August 7, 1919. Serial No. 121,366. PUBLISHED FEBRUARY 10, 1920.

133,074. BURS AND BROACHES USED WITH DENTAL HANDPIECES FOR PREPARING CAVITIES. USONA DENTAL COMPANY, INC., Ogdensburg, N. Y.
Filed August 7, 1919. Serial No. 121,367. PUBLISHED FEBRUARY 10, 1920.

133,075. DENTAL PLIERS AND DENTAL FORCEPS. UTICA DROP FORGING & TOOL COMPANY, Utica, N. Y.
Filed July 23, 1919. Serial No. 120,858. PUBLISHED MARCH 16, 1920.

133,076. CORSETS. THE VAN ORDEN COMPANY, Newark, N. J.
Filed January 14, 1920. Serial No. 127,160. PUBLISHED APRIL 13, 1920.

133,077. CORSETS. THE VAN ORDEN COMPANY, Newark, N. J.
Filed January 14, 1920. Serial No. 127,161. PUBLISHED APRIL 13, 1920.

133,078. CORSETS. THE VAN ORDEN COMPANY, Newark, N. J.
Filed January 14, 1920. Serial No. 127,162. PUBLISHED APRIL 13, 1920.

133,079. CERTAIN NAMED NOTIONS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,068. PUBLISHED MARCH 23, 1920.

133,080. CERTAIN NAMED NOTIONS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,069. PUBLISHED MARCH 23, 1920.

133,081. CERTAIN NAMED NOTIONS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,078. PUBLISHED MARCH 23, 1920.

133,082. CERTAIN NAMED NOTIONS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,085. PUBLISHED MARCH 23, 1920.

133,083. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed February 6, 1920. Serial No. 128,057. PUBLISHED APRIL 13, 1920.

133,084. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed February 14, 1920. Serial No. 128,415. PUBLISHED APRIL 13, 1920.

133,085. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed February 14, 1920. Serial No. 128,417. PUBLISHED APRIL 13, 1920.

133,086. MOTOR-TRUCKS. WARD LA FRANCE TRUCK CO., INC., Elmira, N. Y.
Filed December 29, 1919. Serial No. 126,608. PUBLISHED APRIL 13, 1920.

133,087. BRASSIÈRE COMBINATION-UNDERGARMENTS AND UNDERGARMENTS FOR WOMEN. THE WARNER BROTHERS COMPANY, Bridgeport, Conn.
Filed December 9, 1918. Serial No. 114,576. PUBLISHED APRIL 6, 1920.

133,088. POWDER FOR FALSE TEETH. GEORGE L. WERNET, Philadelphia, Pa.
Filed October 13, 1919. Serial No. 123,767. PUBLISHED MARCH 16, 1920.

133,089. WIRE AND MANILA ROPES AND WIRE CABLES. WESTERN ROPE & MANUFACTURING COMPANY, Tulsa, Okla.
Filed March 8, 1919. Serial No. 116,433. PUBLISHED MARCH 30, 1920.

133,090. INCANDESCENT LAMPS. WHITELITE ELECTRIC COMPANY, New York, N. Y.
Filed October 3, 1919. Serial No. 123,411. PUBLISHED APRIL 6, 1920.

133,091. INCANDESCENT LAMPS. WHITELITE ELECTRIC COMPANY, New York, N. Y.
Filed October 27, 1919. Serial No. 124,243. PUBLISHED APRIL 6, 1920.

133,092. LEATHER BOOTS AND SHOES. WHITMORE-TIRRELL SHOE CORPORATION, Weymouth, Mass.
Filed January 15, 1920. Serial No. 127,203. PUBLISHED APRIL 13, 1920.

133,093. SEEDS—NAMELY, FLOWER-SEEDS AND SWEET-PEA SEEDS. OSCAR H. WILL & CO., Bismarck, N. D.
Filed February 9, 1920. Serial No. 128,186. PUBLISHED APRIL 13, 1920.

133,094. SEEDS—NAMELY, LAWN AND GRASS SEEDS. OSCAR H. WILL & CO., Bismarck, N. D.
Filed February 9, 1920. Serial No. 128,188. PUBLISHED APRIL 13, 1920.

133,095. VACUUM-TUBE DEVICES AND PARTS AND ACCESSORIES THEREFOR. WIRELESS SPECIALTY APPARATUS COMPANY, New York, N. Y., and Boston, Mass.
Filed October 8, 1919. Serial No. 123,564. PUBLISHED APRIL 6, 1920.

133,096. BATTERIES, ELECTRICAL MINE-LAMPS, AND MAGNETOS. WITHERBEE IGNITER COMPANY, Springfield, Mass.
Filed September 19, 1919. Serial No. 122,930. PUBLISHED MARCH 30, 1920.

LABELS

REGISTERED JULY 6, 1920.

21,903.—*Title:* "TOYLAND SPECIAL." (For Crackers Known as "Toyland Special" and Cut in the Shape of a Car.) PHILIP IRVING JACOBY, San Francisco, Calif. Filed August 23, 1919.

LABELS RENEWED.

389 AND 390. "SAWYERS" CRYSTAL BLUE. HENRY SAWYER, Chelsea, Mass.; The Sawyer Crystal Blue Company, successors.
Registered November 16, 1875. Reregistered December 1, 1903. Renewed November 16, 1917.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE DUNCAN.

Decided November 30, 1918. Petition for rehearing, decided January 8, 1919.

1. PATENTS—CLAIMS—AGGREGATION—RECORD-TAPE.

Claims for a record-tape for guidance in running a train provided with a standard-speed line and a maximum-allowable-speed line and perforations *Held* not objectionable as aggregations, as they enable the engineer to so regulate his speed as to keep an indicator between the two lines and so indicate at a glance that his instant speed is between the normal and maximum.

2. SAME—SAME—DUPLICATE OR REDUNDANT—INDEFINITENESS.

Where an applicant defines the same invention in numerous ways, he not only fails to secure his invention, but he fails to comply with the provision of the law that "he shall particularly point out and distinctly claim the part, improvement * * * which is his invention," and the claims are therefore indefinite. If an applicant writes two claims which define the same invention, then by that very fact he fails to point out his invention.

3. SAME—SAME—SAME—REJECTION FOR DUPLICATION AND INDEFINITENESS.

Duplication of claims invariably leads to indefiniteness, and an entire set of claims should be rejected as indistinct whenever by reason of duplication it is made uncertain what the invention is. The different claims must be on their face obviously different in substance.

4. SAME—SAME—INDEFINITENESS.

Claims which are confused by reciting numerous unnecessary limitations and using indefinite terms, making things appear of essence which are not of essence, are indefinite.

ON PETITION for rehearing.

5. PATENTS—CLAIMS—DUTY OF APPLICANT TO POINT OUT DISTINCTIONS.

Where an applicant presents a multiplicity of claims to define a simple invention and many are substantial duplicates of others, it is applicant's duty rather than that of the Examiner to point out how each claim patentably differs from every other one.

6. SAME—APPEAL TO COMMISSIONER—REVIEW NOT RESTRICTED TO QUESTIONS PUT IN ASSIGNMENT OF ERRORS.

On appeal to the Commissioner he is not bound to decide merely the specific questions put to him by the assignments of error, because it is his duty to refuse a patent whenever he has an opinion that the patent ought not to be granted, and it is immaterial how he gets the information upon which he bases his opinion.

(Affirmed by the Court of Appeals, District of Columbia, 276 O. G., 211.)

APPEAL from Examiners-in-Chief.

SPEED AND DISTANCE INDICATOR RECORD.

Mr. Harry L. Duncan pro se.

CLAY, *Assistant Commissioner:*

The applicant appeals from the affirmance by the Examiners-in-Chief of a rejection of claims 1 to 12, inclusive, and 16, 18, and 21, drawn to a form of record-tape for guidance in running a train, for example. The rejection was on the ground that the claims define aggregations, both tribunals below apparently assuming that the invention is new and patentable. Examples of claims are as follows:

1. The distance feed combined tape record, adapted to coöperate with the distance feed device of a speed or distance indicator or recorder, and having thereon time scale, speed scale, distance scale and route indications, and having a standard speed schedule and a coöperating maximum speed schedule adapted to indicate the maximum allowable speed for the various parts of the route in connection with an actual speed marking indicating the corresponding actual momentary speed of the vehicle, and having oscillatory distance schedule adapted to coöperate with an actual distance marking and indicate the relation of the actual distance traveled by the vehicle to the scheduled distance for the same time, and having perforated alining devices at regularly spaced distance intervals and adapted to periodically control the feeding of the record and aline the same in connection with alining devices actuated by correspondingly spaced route members along the route of the vehicle.

20. The record, adapted to coöperate with a speed or distance indicator or recorder, and having thereon a maximum speed schedule adapted to indicate the maximum allowable speed for the various parts of the route.

21. The record, adapted to coöperate with a speed or distance indicator or recorder, and having thereon a standard speed schedule and a coöperating maximum speed schedule adapted to indicate the maximum allowable speed for the various parts of the route.

In the applicant's divisional application, Serial No. 137,446, which is simultaneously up on appeal, the applicant has set forth more fully an apparatus for the guidance of a locomotive operator in running a train. Substantially he provides a continuous recorder of the speed and distance, and the records being made upon a moving paper in the form of a tape or a disk. This recording-paper is provided with guiding data, so that the engineer may know his position and condition with respect to prearranged schedule. In this case the applicant is claiming the paper record itself, it being provided with a line showing the normal or standard speed and the distance from one station to another, and also another line showing the maximum allowable speed. Various markings to show tunnels, curves, and stations along the track are provided, and the paper record also has a series of perforations, which engage mechanism at intervals to stop the normal feed of the paper record until the motion of the train causes a readjustment of the ideal and actual rec-

ords being made. This is accomplished by running the paper record normally at a slightly excessive rate, so that the actual record being made tends to run ahead of the ideal or standard, and then the speed of the tape is checked at intervals to readjust so that the actual and the ideal are brought to coincide. What he is claiming is the paper record itself, with the various markings thereon.

I am unable to agree with the Examiners-in-Chief or the Examiner on the question of aggregation. It seems to me perfectly plain that the tape represented in Figure 1, having the standard-speed line 52 and the maximum-speed line 53 and the perforations 80, is thus defined by features which clearly coöperate with the actual-speed indicator 40. The engineer has only to so regulate his speed as to keep the indicator 40 between the lines 51 and 53 in order to know that he is running his train between the standard speed and the maximum allowable speed. The lines 52 and 53 as clearly coöperate in function as the two blades of a pair of shears, and as plainly the perforations 80 coöperate with these record-lines, because they are the means by which the record-lines are kept in the proper relation to the actual position of the indicator 40. Conceding that the line 52, which shows the standard speed, performs exactly the same function when it is on the tape by itself as it does when it is on a tape together with a maximum-allowable-speed line 53, it nevertheless in the latter case coöperates with the line 53, because it is the two lines together that show the engineer at a glance that his instant speed is between the normal and the maximum. Without the maximum-line 53 the engineer certainly could know whether he was running above or below the normal; but he could not know at a glance how much below or above the normal nor what relation his excess of speed was to the limit of excessive speed.

I think in this case, as I have also remarked in my decision of even date in the other case, the applicant has confused the issues by reason of indefiniteness of claim, caused both by indistinct language and by duplicating claims. When a simple invention is claimed over and over in mere variations of language, the necessary result is to confuse and to fail to point out the invention as the statute requires. The sole and clear meaning of the word "definite" is the state of standing out clearly and alone, different, and separated from other things. If one points out the same thing twice, he does not point out that thing distinctly. The very fact that the same structure is claimed twice renders the set of claims indistinct, because there is no justification in a patent for two claims to the same thing, and when the reader finds two claims he necessarily looks for them to be drawn to different things. The applicant has a simple invention which could not possibly be defined in more than ten or a dozen claims without repetition. He has a tape with (1) a normal-speed curve, with (2) a maximum-allowable-speed curve, with (3) speed-correction perforations, with (4) an actual-speed record, with (5) a normal-distance record, with (6) an actual-distance record. These six features are all the features there are to the tape, and it is impossible to work out of this structure in definitions as many as twenty inventions, as the applicant has done.

Again, he has confused his claims, as in claim 1 above, by reciting numerous unnecessary limitations and using indefinite terms, making things appear of essence which are not of essence. To mention only a few in claim 1, it is not material whether the record is a tape or disk. If the record is a distance-record, it must of necessity have a distance-scale. If there is a coöperating maximum-speed schedule, this must inevitably indicate the maximum allowable speed for various points of the route in connection with the actual-speed marking. This speed-marking must necessarily indicate the actual momentary speed. The applicant has left out any positive statement that there is an actual-speed record, but has made all sorts of intimations about its presence. And, again, if there is a coöperating distance-marking it must inevitably indicate the relation of the actual distance to the scheduled distance for the same time. The claim contains a description of an invention, but it obscures rather than distinguishes it. This claim would cover exactly the same structure if it were worded as follows:

> A continuous record adapted to coöperate with speed and distance indicators, provided with time and speed scales, a standard-speed-schedule line, a maximum-allowable-speed-schedule line, and having also alining perforations at intervals, adapted to coöperate with a feed control for the record and at intervals reset the record to correspond with the actual movements of a vehicle on which the record is used.

The Examiner was right in rejecting the applicant's claims 1, 2, 3, 7, 11, 12, etc., as aggregations if he must assume that all the verbiage describes structure; but the fact is that the claim is merely indistinct, including immaterial things, repetitions of language, and indefinite expressions. The most emphatic and important requirement of the patent law is that the patentee shall distinctly point out his invention. He has no right to a patent which contains any claim or set of claims which for any reason fail to do this thing. Duplicating claims invariably brings this about, and an entire set of claims should be rejected as indistinct whenever by reason of duplication it is made uncertain to the reader what the invention is. The different claims must be on their face obviously different in substance.

The claims in this case are all rejected because, taken as a whole, they fail to point out the invention; but the applicant has an invention and is entitled to a reasonable number of claiming-clauses covering it, and upon revision of the claims as herein suggested the patent will be allowed.

The decision of the Examiners-in-Chief is reversed in the holding that the claims cover aggregations by including the several features of the paper record. The case is returned to the Primary Examiner with directions to admit a proper amendment within thirty days hereof containing a small set of claims each of which is clearly distinguished from every

other in a patentable sense. The present claims 14, 17, 20, and 21, for example, are allowable.

ON PETITION for rehearing.

CLAY, *Assistant Commissioner:*

By petition for rehearing the applicant insists that my decision of November 30 herein went farther than the assignments of error called for, and, moreover, that in deciding certain points not raised and argued by the applicant on appeal I have fallen into error on the merits of the case. Notwithstanding the petitioner's full and careful brief I see no occasion for a rehearing; but it is apparently opportune to treat the merits more fully and to call more particular attention to the necessity of the Commissioner's discretion to review the whole case before him, especially for the purpose of insisting upon applications for patent fulfilling the requirement that they distinctly point out the invention.

The Examiners-in-Chief discovered no aggregation in claims 13, 14, 15, 17, 19, 20, and thereupon said that "in their opinion these claims should be allowed;" but otherwise they agreed with the Primary Examiner. The essence of my decision was that while several other claims also were erroneously held to be for aggregations and, so far as that ground alone was concerned, should be allowed, yet as to all the claims they should be rejected for another reason. That other reason was explained rather fully, and it was concluded that—

> the several claims must be on their face obviously different in substance.

I did not then consider it necessary to say that the Examiners-in-Chief had overlooked or not discussed a fault in the claim which is probably worse than aggregation.

The Examiners-in-Chief allowed, for example, claims 19 and 20, which as a matter of fact are two claims to identically the same substantial thing and by their very presence together interfere with the pointing out of the invention. These claims are worded as follows:

> 20. The record, adapted to coöperate with a speed or distance indicator or recorder, and having thereon a maximum speed schedule adapted to indicate the maximum allowable speed for the various parts of the route.
>
> 19. The (distance feed) record, adapted to coöperate with (the distance feed device of) a speed or distance indicator or recorder, and having thereon a maximum speed schedule adapted to indicate the maximum allowable speed for the various parts of the route.

The only difference is in the words in brackets.

Claim 20 covers simply a speed-record having a maximum speed line thereon. Claim 19 describes this record as a "distance feed" record, which apparently means nothing, but is in any case a mere name and not an element of the claim, and, further, instead of saying that the record is to coöperate with a recorder, as in claim 20, it specifies that it is to coöperate "with the distance feed device of" a recorder, which expression, if it defines anything at all, defines the only thing in a recorder with which the record in claim 20 could coöperate. The thing claimed is the same. No one could infringe one of these claims and not infringe the other. Yet they pretend to claim different things.

I did not consider it necessary to point out specifically which of the claims were duplicates, since the crux of the decision was that the pointing out of essential differences was the applicant's duty. In effect, the applicant insists upon the right to have a patent with several claims to the same thing. As a matter of fact the twenty-one claims in the case had been previously carefully analyzed and found to contain many duplicates, as is obvious from a mere reading of them. Claim 17 covers nothing whatever except the tape with a maximum-speed marking, in substance the same as claims 19 and 20 above. Moreover it differs from claim 18 in just the same point as 20 differs from 21. The same features cannot be patented over and over again.

Claims 13 and 15 differ only in the single word "perforated" occurring before the term "alining devices" in claim 15. Since there is no suggestion of any possible form of alining devices other than a perforation in the tape, it is not invention to make the alining device in the most obvious way. Claim 11 differs from claim 12 only in specifying that the record is a "tape" record and that the alining devices are perforations at regular intervals. Putting the record on the tape is not part of the invention, and as to the alining devices they must be assumed in claim 12 to be regularly spaced to operate at all. Even the long detailed claims 1 and 2, which are the narrowest claims, differ in nothing except that claim 2 omits to say that the distance-schedule is "oscillatory" and that the alining device is a perforation at regular intervals. This is not material. In the first place there is nothing to suggest that the actual distance-marking itself is to oscillate, without which there would be no function in the schedule-line being oscillatory. If the limitation is material in claim 1, then claim 2 is incomplete and when completed would be the same as claim 1. Similarly the alining devices of claim 2 must be assumed to be perforations, as specified in claim 1, or their pure equivalents, since no possibility of anything else is suggested. Beyond this if the structure defined in claim 2 were patented there would be no room for an additional invention based on the slight differences claim 2 recites over the structure recited in claim 1. Meanwhile the two claims pretend to set forth substantially different inventions.

The applicant undertakes by analysis to say that claim 1 includes essential features not included in the claim proposed in my prior decision; but as a matter of fact the distance-scale is included in the time-scale or else the time-scale is included in the distance-scale, while it is immaterial that the distance-schedule is oscillatory or even that it is present at all, because the tape itself is a distance-schedule. "Route indications" mean nothing. Several of the claims (as claim 15) seem to include in this term the speed-schedule, etc. The applicant has played extensively upon the terms "speed," "time," and "distance," as if he ignored the fact that there can be no speed-scale or speed-schedule without involving both a time and distance scale or schedule. Speed is merely the relation between time and dis-

ords being made. This is accomplished by running the paper record normally at a slightly excessive rate, so that the actual record being made tends to run ahead of the ideal or standard, and then the speed of the tape is checked at intervals to readjust so that the actual and the ideal are brought to coincide. What he is claiming is the paper record itself, with the various markings thereon.

I am unable to agree with the Examiners-in-Chief or the Examiner on the question of aggregation. It seems to me perfectly plain that the tape represented in Figure 1, having the standard-speed line 52 and the maximum-speed line 53 and the perforations 80, is thus defined by features which clearly coöperate with the actual-speed indicator 40. The engineer has only to so regulate his speed as to keep the indicator 40 between the lines 51 and 53 in order to know that he is running his train between the standard speed and the maximum allowable speed. The lines 52 and 53 as clearly coöperate in function as the two blades of a pair of shears, and as plainly the perforations 80 coöperate with these record-lines, because they are the means by which the record-lines are kept in the proper relation to the actual position of the indicator 40. Conceding that the line 52, which shows the standard speed, performs exactly the same function when it is on the tape by itself as it does when it is on a tape together with a maximum-allowable-speed line 53, it nevertheless in the latter case coöperates with the line 53, because it is the two lines together that show the engineer at a glance that his instant speed is between the normal and the maximum. Without the maximum-line 53 the engineer certainly could know whether he was running above or below the normal; but he could not know at a glance how much below or above the normal nor what relation his excess of speed was to the limit of excessive speed.

I think in this case, as I have also remarked in my decision of even date in the other case, the applicant has confused the issues by reason of indefiniteness of claim, caused both by indistinct language and by duplicating claims. When a simple invention is claimed over and over in mere variations of language, the necessary result is to confuse and to fail to point out the invention as the statute requires. The sole and clear meaning of the word "definite" is the state of standing out clearly and alone, different, and separated from other things. If one points out the same thing twice, he does not point out that thing distinctly. The very fact that the same structure is claimed twice renders the set of claims indistinct, because there is no justification in a patent for two claims to the same thing, and when the reader finds two claims he necessarily looks for them to be drawn to different things. The applicant has a simple invention which could not possibly be defined in more than ten or a dozen claims without repetition. He has a tape with (1) a normal-speed curve, with (2) a maximum-allowable-speed curve, with (3) speed-correction perforations, with (4) an actual-speed record, with (5) a normal-distance record, with (6) an actual-distance record. These six features are all the features there are to the tape, and it is impossible to work out of this structure in definitions as many as twenty inventions, as the applicant has done.

Again, he has confused his claims, as in claim 1 above, by reciting numerous unnecessary limitations and using indefinite terms, making things appear of essence which are not of essence. To mention only a few in claim 1, it is not material whether the record is a tape or disk. If the record is a distance-record, it must of necessity have a distance-scale. If there is a coöperating maximum-speed schedule, this must inevitably indicate the maximum allowable speed for various points of the route in connection with the actual-speed marking. This speed-marking must necessarily indicate the actual momentary speed. The applicant has left out any positive statement that there is an actual-speed record, but has made all sorts of intimations about its presence. And, again, if there is a coöperating distance-marking it must inevitably indicate the relation of the actual distance to the scheduled distance for the same time. The claim contains a description of an invention, but it obscures rather than distinguishes it. This claim would cover exactly the same structure if it were worded as follows:

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The Examiner was right in rejecting the applicant's claims 1, 2, 3, 7, 11, 12, etc., as aggregations if he must assume that all the verbiage describes structure; but the fact is that the claim is merely indistinct, including immaterial things, repetitions of language, and indefinite expressions. The most emphatic and important requirement of the patent law is that the patentee shall distinctly point out his invention. He has no right to a patent which contains any claim or set of claims which for any reason fail to do this thing. Duplicating claims invariably brings this about, and an entire set of claims should be rejected as indistinct whenever by reason of duplication it is made uncertain to the reader what the invention is. The different claims must be on their face obviously different in substance.

The claims in this case are all rejected because, taken as a whole, they fail to point out the invention; but the applicant has an invention and is entitled to a reasonable number of claiming-clauses covering it, and upon revision of the claims as herein suggested the patent will be allowed.

The decision of the Examiners-in-Chief is reversed in the holding that the claims cover aggregations by including the several features of the paper record. The case is returned to the Primary Examiner with directions to admit a proper amendment within thirty days hereof containing a small set of claims each of which is clearly distinguished from every other in a patentable sense. The present claims 14, 17, 20, and 21, for example, are allowable.

ON PETITION for rehearing.

CLAY, *Assistant Commissioner:*

By petition for rehearing the applicant insists that my decision of November 30 herein went farther than the assignments of error called for, and, moreover, that in deciding certain points not raised and argued by the applicant on appeal I have fallen into error on the merits of the case. Notwithstanding the petitioner's full and careful brief I see no occasion for a rehearing; but it is apparently opportune to treat the merits more fully and to call more particular attention to the necessity of the Commissioner's discretion to review the whole case before him, especially for the purpose of insisting upon applications for patent fulfilling the requirement that they distinctly point out the invention.

The Examiners-in-Chief discovered no aggregation in claims 13, 14, 15, 17, 19, 20, and thereupon said that "in their opinion these claims should be allowed;" but otherwise they agreed with the Primary Examiner. The essence of my decision was that while several other claims also were erroneously held to be for aggregations and, so far as that ground alone was concerned, should be allowed, yet as to all the claims they should be rejected for another reason. That other reason was explained rather fully, and it was concluded that—

> the several claims must be on their face obviously different in substance.

I did not then consider it necessary to say that the Examiners-in-Chief had overlooked or not discussed a fault in the claim which is probably worse than aggregation.

The Examiners-in-Chief allowed, for example, claims 19 and 20, which as a matter of fact are two claims to identically the same substantial thing and by their very presence together interfere with the pointing out of the invention. These claims are worded as follows:

> 20. The record, adapted to coöperate with a speed or distance indicator or recorder, and having thereon a maximum speed schedule adapted to indicate the maximum allowable speed for the various parts of the route.
>
> 19. The (distance feed) record, adapted to coöperate with (the distance feed device of) a speed or distance indicator or recorder, and having thereon a maximum speed schedule adapted to indicate the maximum allowable speed for the various parts of the route.

The only difference is in the words in brackets.

Claim 20 covers simply a speed-record having a maximum speed line thereon. Claim 19 describes this record as a "distance feed" record, which apparently means nothing, but is in any case a mere name and not an element of the claim, and, further, instead of saying that the record is to coöperate with a recorder, as in claim 20, it specifies that it is to coöperate "with the distance feed device of" a recorder, which expression, if it defines anything at all, defines the only thing in a recorder with which the record in claim 20 could coöperate. The thing claimed is the same. No one could infringe one of these claims and not infringe the other. Yet they pretend to claim different things.

I did not consider it necessary to point out specifically which of the claims were duplicates, since the crux of the decision was that the pointing out of essential differences was the applicant's duty. In effect, the applicant insists upon the right to have a patent with several claims to the same thing. As a matter of fact the twenty-one claims in the case had been previously carefully analyzed and found to contain many duplicates, as is obvious from a mere reading of them. Claim 17 covers nothing whatever except the tape with a maximum-speed marking, in substance the same as claims 19 and 20 above. Moreover it differs from claim 18 in just the same point as 20 differs from 21. The same features cannot be patented over and over again.

Claims 13 and 15 differ only in the single word "perforated" occurring before the term "alining devices" in claim 15. Since there is no suggestion of any possible form of alining devices other than a perforation in the tape, it is not invention to make the alining device in the most obvious way. Claim 11 differs from claim 12 only in specifying that the record is a "tape" record and that the alining devices are perforations at regular intervals. Putting the record on the tape is not part of the invention, and as to the alining devices they must be assumed in claim 12 to be regularly spaced to operate at all. Even the long detailed claims 1 and 2, which are the narrowest claims, differ in nothing except that claim 2 omits to say that the distance-schedule is "oscillatory" and that the alining device is a perforation at regular intervals. This is not material. In the first place there is nothing to suggest that the actual distance-marking itself is to oscillate, without which there would be no function in the schedule-line being oscillatory. If the limitation is material in claim 1, then claim 2 is incomplete and when completed would be the same as claim 1. Similarly the alining devices of claim 2 must be assumed to be perforations, as specified in claim 1, or their pure equivalents, since no possibility of anything else is suggested. Beyond this if the structure defined in claim 2 were patented there would be no room for an additional invention based on the slight differences claim 2 recites over the structure recited in claim 1. Meanwhile the two claims pretend to set forth substantially different inventions.

The applicant undertakes by analysis to say that claim 1 includes essential features not included in the claim proposed in my prior decision; but as a matter of fact the distance-scale is included in the time-scale or else the time-scale is included in the distance-scale, while it is immaterial that the distance-schedule is oscillatory or even that it is present at all, because the tape itself is a distance-schedule. "Route indications" mean nothing. Several of the claims (as claim 15) seem to include in this term the speed-schedule, etc. The applicant has played extensively upon the terms "speed," "time," and "distance," as if he ignored the fact that there can be no speed-scale or speed-schedule without involving both a time and distance scale or schedule. Speed is merely the relation between time and dis-

tance. Claims 4 and 5 differ only in specifying that the distance-schedule is oscillatory, which is the same respect in which other claims differ, as claims 1 and 2. The same new idea can not form several inventions.

My decision was intended to prevent the result the applicant has actually brought about in this case—namely, that of setting forth the particular invention in a manner so indefinite and obscure that claims to the same thing may be supposed, even by experts, to be claims to different things. I think this is strikingly illustrated by the allowance of claims 17, 19, and 20 by the Examiners-in-Chief.

The applicant seems to insist that he has a right to avoid a distinct pointing out of his invention, for while he asks a rehearing on the ground that the Commissioner did not understand his invention he makes no attempt to explain the invention or wherein the claims differ in inventive substance. Walker in his work on patents says at page 226, (5th edition:)

> In contemplation of law each claim of a patent is considered as setting forth a complete and independent invention, and so where a patent contains two claims which are alike, except that the narrower one of them calls for an unpatentable addition to what is called for by the other, the narrower claim is void. But two claims which may appear to be alike, will, if practicable, be construed to differ rather than agree, because there is a presumption that no applicant will do so useless and inexpedient an act as to repeat a claim.
>
> Letters Patent which contain a needless multiplication of nebulous claims, calculated to mislead the public, are void for that reason, if for no other.

Undoubtedly a patentee may claim his invention in several scopes—that is, in its broad aspect and also in its narrow aspect—and he may also separately claim several related inventions; but there is no authority for the Commissioner to issue a patent with several claims to the same thing. It is the priniary duty of the Commissioner to see that the patentee delimitates his invention and each of his inventions distinctly. This for the guidance of others and in order to definitely fix the patentee's rights.

This is the reason for the well-settled rule that—

> it belongs exclusively to the Commissioner to decide the question for himself, whether a patent ought to issue,

as was said by the Supreme Court in *Butterworth v. Hoe*, (112 U. S., 50, at p. 68.) All the acts of the Patent Office are in legal force and effect the acts of the Commissioner, and specifically it has been settled that the Commissioner may deny a patent in the form in which the Examiners-in-Chief have allowed it. (*Moore* v. *United States, ex rel. Chott*, 40 App. D. C., 591; 192 O. G., 520.)

The applicant in insisting, as he does, that his appeal raised the single clear and sharp issue as to whether certain specified claims were drawn to aggregations, and that this was the only point involved, supports a vicious doctrine and one that finds no support in the best court decisions. The exact question raised in the Chott case above was whether the applicant could have a mandamus to compel the Commissioner to enforce a decision in his favor which had been rendered by the Examiners-in-Chief. The court below had erroneously held that there was no method by which the favorable judgment of the Examiners-in-Chief could be reviewed or reversed by the Commissioner. In view of the nature of the patent system it is remarkable that any such view could ever have been held. The responsibility of issuing patents is upon the Commissioner, and while of course the Commissioner may not dictate an opinion to the Examiners-in-Chief (nor for that matter to the newest Fourth Assistant Examiner) this is a very different thing from reviewing the question whether a given proposed patent should be issued or not. The power to grant the patent is as closely bound up with the power to refuse it as is the obverse to the reverse side of a coin.

By section 481 of the statute the Commissioner is to superintend or perform—

> all duties respecting the granting and issuing of patents directed by law,

but he has no authority to issue a patent not directed by law. The law does not direct the issue of a patent with claims such as those the applicant insists upon having, being a set of claims having the effect, if not the design, to confuse rather than to distinctly point out the invention. Section 4893 of the statute provides that the Commissioner shall cause an examination to be made—

> and if on such examination it shall appear that the claimant is justly entitled to a patent under the law, and that the same is sufficiently useful and important, the Commissioner shall issue a patent therefor.

It would be absurd if the Commissioner, who is to issue the patent under these conditions, could under any circumstances be debarred from forming and expressing an opinion as to whether these conditions exist. It is the manifest duty of the Commissioner, under guidance of the court, to instruct the Examiners-in-Chief as to the proper form of the papers constituting Letters Patent. As will be clear from a consideration of the history of the Board of Examiners-in-Chief and the appellate practice (see *ex parte Stephen Hull*, C. D., 1869, p. 68,) there is not a close parallel between the relations of the Board of Examiners-in-Chief and the Commissioner and the relations between an inferior and superior court. The Commissioner could not be bound to decide merely the specific questions put to him by the assignments of error upon taking an appeal, because it is his duty to refuse a patent whenever he has an opinion that the patent ought not to be granted, and this entirely irrespective of how the case comes to his attention or how he gets the information upon which he forms his opinion. His review is more like that of a court which under writ of certiorari orders up a record on its own motion and review whatever part of it it sees fit.

The applicant's claims have been considered twice, and so far as this Office is concerned they are finally rejected and patent refused in the present form of the claims. In view of the obvious good faith of the petition for rehearing the time for the applicant to submit a small set of claims each of which distinguishes from every other in patentable substance is extended an additional thirty days. Otherwise the petition is denied.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

IN RE DUNCAN.

Decided May 3, 1920.

PATENTS—CLAIMS—REJECTION FOR INDEFINITENESS AND REDUNDANCY.

The statute requires an applicant to so formulate his claims that the experts of the Patent Office may understand definitely what they mean, and the invention must be so distinctly described as to be understood by one ordinarily skilled in the art to which the invention belongs, and where a multiplicity of claims was presented on a simple invention, some of which were inherently indefinite, all of the claims were properly rejected for failure to point out the invention, as required by the law.

(Decision of the Assistant Commissioner, 276 O. G., 207, affirmed.)

Mr. Archibald Cox, Mr. W. G. Henderson, and *Mr. Harry A. English* for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

VAN ORSDEL, *J.:*

Appeal from rejection of application for patent for improvements for speed and distance indicator records for use on railroad-locomotives.

The rejection of the appealed claims is on the ground that they fail to point out invention. The statute requires an applicant to so formulate his claims that the experts of the Patent Office may understand definitely what they mean, and the invention must be so distinctly described as to be understood by one ordinarily skilled in the art to which the invention belongs.

We agree with the tribunals below that, for the reasons suggested, the claims should be rejected. Appellant, however, has little room for complaint; since his attention was called to the condition of his claims at every stage of the proceeding. The Commissioner found that—

> the applicant has an invention and is entitled to a reasonable number of claiming clauses covering it; and upon revision of the claims as herein suggested, the patent will be allowed.

On application for rehearing, the Commissioner again attempted to aid the applicant in the protection of his rights by entering the following order:

> The applicant's claims have been considered twice and so far as this Office is concerned they are finally rejected and patent refused in the present form of the claims. In view of the obvious good faith of the petition for rehearing, the time for the applicant to submit a small set of claims each of which distinguishes from every other in patentable substance is extended an additional thirty days. Otherwise the petition is denied.

The decision of the Commissioner of Patents is affirmed, and the clerk is directed to certify these proceedings as by law required.

Affirmed.

Court of Appeals of the District of Columbia.

IN RE SMITHEY.

Decided May 3, 1920.

PATENTS — PATENTABILITY — AGGREGATION — DIFFERENT REGISTERS MOUNTED IN THE SAME CASING.

Two manually-operated registers adapted to keep a record of the quantity of gas and oil used in an automobile, mounted in the same casing with the ordinary speedometer and odometer, constitute but an aggregation of features, the registers being independent units.

Mr. Chas. J. Williamson for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

ROBB, *J.:*

Appeal from a decision of the Commissioner of Patents rejecting three claims, of which the third will serve as an example:

> 3. An apparatus substantially as described comprising a casing, odometers for indicating the results accomplished, said odometers being automatically operated in securing such results, and a manually operated and controlled register or registers for indicating the material or materials consumed for effecting such results.

Applicant has placed within the casing of an ordinary speedometer and odometer two manually-operated registers, the object of which is to keep a record of the quantity of gas and oil supplied to the automobile. While these two registers are within the casing of the speedometer, they are independent units and their function is no different than that of two pads and pencils. We agree with the Commissioner that—

> any combination in such a case is entirely through the intelligence of the user, which is not sufficient of itself to constitute a valid combination. (*In re Davenport*, 23 App. D. C., 370; *Gas Machinery Co.* v. *United Gas Improvement Co.*, 228 Fed., 684.)

Decision affirmed.

Court of Appeals of the District of Columbia.

IN RE UNITED STATES RUBBER COMPANY.

Decided May 3, 1920.

TRADE-MARKS—PUBLIC INSIGNIA—"U. S." NOT REGISTRABLE.

The meaning of "U. S." is too clearly established to permit of registration of any mark containing it as the most prominent feature in view of the provisions of section 5 of the Trade-Mark Act of 1905, denying registration to any mark which "consists of or comprises the flag or coat of arms or other insignia of the United States, or any simulation thereof, or of any State or municipality, or of any foreign nation."

Mr. Chas. S. Jones for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

ROBB, *J.:*

Appeal from a decision of the Patent Office refusing to register as a trade-mark for shoes the letters "U. S.," written on a disk, with other less conspicuous wording around the border.

Section 5 of the Trade-Mark Act (33 Stat., 724) denies registration to any mark which—

> consists of or comprises the flag or coat of arms or other insignia of the United States, or any simulation thereof, or of any State or municipality, or of any foreign nation.

We agree with the Patent Office that—

> the meaning of "U. S." is too clearly established to permit of registration of any mark having that as the most prominent feature. (*In re Cahn, Belt & Co.*, 27 App. D. C., 173; *in re American Glue Co.*, 27 App. D. C., 391.)

The decision is affirmed.

Affirmed

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) Claims 2 to 7, inclusive, of the Deppermann patent, No. 1,310,405, for a bottle-stopper or pour-out suitable for ink-containers, including a metal band, the lower part of which holds the perforated stopper and bottle-mouth firmly together, while the upper portion holds the register-

ing pour-out in rotatable relation to the stopper, *Held* valid and infringed. *S. S. Stafford, Inc.*, v. *Thaddeus Davids Ink Co., Inc.*, 264 Fed. Rep., 111.

(U. S. C. C. A. Ill.) The Guth patent, No. 1,076,418, for an improved electric lamp, *Held* infringed. *Freeman-Sweet Co. et al.* v. *Luminous Unit Co.*, 264 Fed. Rep., 107.

(U. S. C. C. A. Pa.) Claims 4, 5, 7, and 8 of the Kettering patent, No. 1,223,180, for an ignition system using a thermal resistance, reducing the current on an abnormal flow, *Held* not infringed with respect to its function of reducing the current to prevent the depletion of the storage battery when the engine is not running, and also *Held* not broad enough, as limited by the prior art, to cover the function of regulating the flow of the current for variable speeds of the engine under running conditions. *Dayton Engineering Laboratories Co.* v. *Kent*, 264 Fed. Rep., 103.

(U. S. C. C. A. N. Y.) The Rosenwasser patent, No. 988,145, for improvement in leggings, *Held* void for lack of invention. *Rosenwasser Bros., Inc.* v. *B. E. Mfg. Co.*, 264 Fed. Rep., 114.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 11, 1920.

The Carbon Black Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Paint & Varnish Co., of 225 Galveston avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered June 14, 1881, No. 8,344, to The Carbon Black Company, of New York, N. Y., and a notice of such declaration sent by registered mail to The Carbon Black Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Carbon Black Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 11, 1920.

The Charles H. Brown Paint Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Paint & Varnish Co., of 225 Galveston avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered January 11, 1916, No. 108,008, to The Charles H. Brown Paint Co., of 188 Montague street, New York, N. Y., and the Office having failed to secure service upon The Charles H. Brown Paint Co. at its said address notice is hereby given that unless The Charles H. Brown Paint Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 11, 1920.

American Standard Composition Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Paint & Varnish Co., of 225 Galveston avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-marks registered September 26, 1905, No. 46,584, and September 2, 1902, No. 38,867, to American Standard Composition Co., of Colorado Building, Fourteenth and G streets, Washington, D. C., and a notice of such declaration sent by registered mail to said American Standard Composition Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said American Standard Composition Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 25, 1920.

The Stampede Company, Limited, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eugene A. Tuchschmidt, of 113 and 115 Locust street, St. Louis, Mo., for registration of a trade-mark and trade-mark registered November 18, 1919, No. 127,689, to The Stampede Company, Limited, of St. Paul, Minn., and a notice of such declaration sent by registered mail to The Stampede Company, Limited, at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Stampede Company, Limited, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 25, 1920.

Louis Robinson, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Brownstein-Louis Company, of 716–722 South Los Angeles street, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered November 21, 1906, No. 57,799, to Louis Robinson, of New York, N. Y., and a notice of such declaration sent by registered mail to said Louis Robinson at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Louis Robinson, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Changes in Classification.

(ORDER No. 2,585.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 16, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 24, Buckles, Buttons, Clasps, Etc., (Division XXXV,) establish the following subclass and definition:

230.5. **Hooks.**

230.5. HOOKS. Hooks of general application. Those specific to a particular art or use are excluded.

Search Classes—
21—CARRIAGES AND WAGONS, subclass 79, Whiffletree-hooks.
248—SUPPORTS, subclass 22, Hooks.
294—HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 82, Hoist-line or grab hooks.

The patents contained in this subclass have been taken for the most part from class 59, Chain, Staple, and Horseshoe Making, subclass 94, Chains, Attachments, Hooks and grabs, hereinafter abolished, and from class 24, Buckles, Buttons, Clasps, Etc., subclass 231, Snap-hooks.

In class 59, Chain, Staple, and Horseshoe Making, (Division XIII,) abolish the following subclass, with its definition:

Chains—
Attachments—
94. Hooks and grabs.

The patents formerly contained in this subclass have been placed for the most part in class 24, Buckles, Buttons, Clasps, Etc., subclass 230.5, Hooks, hereinbefore established.

J. T. NEWTON,
Commissioner.

Patents Nos. 1,346,101 to 1,346,804.

THE
OFFICIAL GAZETTE
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United States Patent Office.

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Issue of July 13, 1920.

Patents	704	No. 1,346,101 to No. 1,346,804,	inclusive.
Designs	102	No. 55,735 to No. 55,837,	inclusive.
Trade-Marks	104	No. 123,097 to No. 123,200,	inclusive.
Reissues	5	No. 14,912 to No. 14,916,	inclusive.
Total	915		

Changes in Classification.

(ORDER No. 2,588.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1920.

A new examining division, No. XLVII, is hereby established, and it is directed that the following classes and subclasses be transferred thereto, this order to take effect immediately:

Class 188, Brakes, from Division XLVI.

Class 303, Fluid-Pressure Brake and Analogous Systems, from Division XLVI.

Class 192, Clutches, from Division XLV.

Class 74, Machine Elements, subclasses 45, Machine-brakes, Centrifugal speed-regulators, and 46, Machine-brakes, Stop mechanisms, from Division XLV.

The transfer of the following additional classes and subclasses is also directed, to take effect immediately:

Class 299, Fluid Sprinkling, Spraying, and Diffusing, from Division XXXIX to Division XLVI.

Class 50, Fluid-Pressure Regulators, from Division XVIII to Division XXXIX.

Class 74, Machine Elements, the following subclasses only, from Division XII to Division XLV:

62. **Belts—**
63. Laminated,
64. Link,
65. Metal-reinforced,
66. Round,
67. Woven wire.
Gearing—
21. Belt—
51. Guides,
31. Sprocket—
61. Expansible,
32. Sprocket-chains—
49. Connectors,
42. Endless belt,
43. Solid link,
44. Solid link and coupler.
104. **Rocker-bearings.**
103. **Universal joint and pivoted supports.**

R. F. WHITEHEAD,
Acting Commissioner.

NOTICE.

PAYMENT OF PATENT FEES—ACT OF MARCH 6, 1920.

Department of the Interior,
United States Patent Office,
Washington, D. C., June 25, 1920.

This Office has been advised by the Assistant Secretary of the Treasury that a circular letter is being forwarded to the Treasurer and Assistant Treasurers of the United States, Federal Reserve Banks, and National Bank depositaries calling attention to the act of Congress approved March 6, 1920, which requires that patent fees be paid directly to the Commissioner of Patents. (See 272 O. G., 379.)

J. T. NEWTON,
Commissioner.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business July 3, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Mar. 1	483
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Nov. 4	Feb. 9	969
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Jan. 6	653
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Oct. 29	Apr. 15	1,397
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Mar. 31	Apr. 2	358
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 19	Apr. 28	516
312	7. Games and Toys; Optics; Photography; Velocipedes	Mar. 8	Apr. 16	861
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 28	June 5	376
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Jan. 27	Feb. 19	582
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Jan. 26	Apr. 14	925
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Feb. 21	Mar. 24	786
222	12. Machine Elements	Nov. 10	Apr. 16	1,073
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 6	Apr. 23	1,188
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	Mar. 16	641
308	15. Bread, Pastry, and Confection Making; Coating; Fuel: Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 28	Apr. 3	1,116
111	16. Radiant Energy; Telegraphy; Telephony	Nov. 3	Dec. 11	862
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Apr. 16	May 6	230
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 15	Jan. 20	992
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 28	Jan. 24	574
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 2	Apr. 12	678
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 19	Apr. 22	477
249	22. Aeronautics; Firearms; Ordnance	Apr. 2	May 13	292
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 30	Apr. 26	673
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 5	Apr. 23	639
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	May 17	May 22	203
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Nov. 3	Nov. 21	727
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Mar. 13	Apr. 5	645
225	28. Internal-Combustion Engines	Feb. 9	Apr. 15	880
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Dec. 1	Apr. 28	681
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 10	June 1	1,095
172	31. Alcohol: Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 1	Jan. 26	1,114
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Nov. 1	Mar. 26	1,226
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 1	Apr. 12	515
304	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	May 26	June 16	155
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	May 19	May 21	548
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Feb. 9	Feb. 13	1,131
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Feb. 24	Feb. 12	1,266
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Feb. 11	Apr. 24	677
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 15	Nov. 14	1,119
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 29	Feb. 25	860
125	41. Resilient Tires and Wheels	Nov. 3	Apr. 5	834
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling.	Jan. 9	Feb. 24	1,113
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Dec. 11	Mar. 6	884
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Mar. 1	Apr. 13	291
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication: Motors	Jan. 17	Mar. 22	665
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway- Brakes; Wooden Buildings.	Jan. 3	May 3	312
	47.	Nov. 1	Jan. 17	745
	Oldest new case, Oct. 15; oldest amended, Nov. 14. Total number of applications awaiting action			34,727
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Feb. 13	Apr. 2	2,499
	Designs	Feb. 17	Mar. 19	832
	Labels and Prints	Feb. 2	Feb. 2	1,135

PATENTS

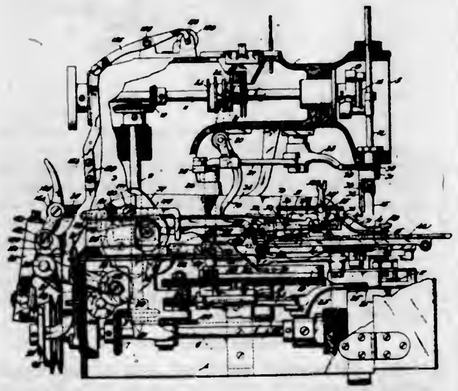
GRANTED JULY 13, 1920.

1,346,101. INDEX-TAB. GEORGE J. AIGNER, Chicago, Ill. Filed May 14, 1917. Serial No. 168,447. 1 Claim. (Cl. 40—2.)



A series of index tabs arranged in the form of a strip, each of the tabs having a horizontal body portion composed of a folded portion, and attachment legs for each of the tabs, projecting angularly from the rear end of the horizontal body portion, one upwardly and one downwardly when the tab is attached to a vertically-disposed sheet, the consecutive tabs of the strip being connected together only by narrow attachment portions medially-disposed in relation to the strip, away from the front and rear edges thereof, adapted to be ruptured by a manual manipulation of adjacent tabs.

1,346,102. BUTTONHOLE-SEWING MACHINE. EDWARD B. ALLEN, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Feb. 16, 1918. Serial No. 217,483. 22 Claims. (Cl. 112—71.)



1. In an automatic buttonhole sewing machine, in combination, stitch-forming mechanism, a stop-motion therefor, a work-holder, an auxiliary shaft stationary throughout the stitching and final stages of a buttonhole producing cycle and adapted to act prior to the stitching operation to perform a desired operation preparatory to stitching, and a second auxiliary shaft stationary throughout the preparatory and stitching stages of a buttonhole producing cycle and adapted to act during the final stage of such cycle to perform a desired operation after stitching.

1,346,103. TENSION-CONTROLLING MECHANISM FOR SEWING-MACHINES. EDWARD B. ALLEN, Newtown, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Feb. 16, 1918. Serial No. 217,483. Divided and this application filed Aug. 16, 1919. Serial No. 317,903. 8 Claims. (Cl. 112—255.)



5. In an automatic sewing machine, stitch-forming mechanism, a stop-motion therefor, a tension device, a tension-controlling cam having a tension-releasing cam-rise and a declivity, a cam-follower connected to said tension device, means for turning said cam to release the tension subsequent to the stitching operation, and means connected to said stop-motion for pushing said cam-follower over the declivity of said tension-controlling cam while the latter is stationary, to effect the restoration of the tension prior to the next stitching operation.

6. In a sewing machine, an actuated element, a cam, and a cam-follower connected to said actuated element and adapted to be acted upon by said cam, and means independent of said cam for shifting the follower circumferentially thereof.

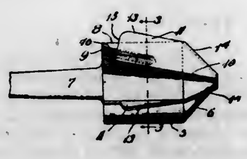
1,346,104. ELECTRIC POCKET-LAMP. CONRAD BOLTSHAUSER, Zurich, Switzerland, assignor to Comp. Phoebus E. G., Zurich, Switzerland. Filed Dec. 24, 1917. Serial No. 208,693. 1 Claim. (Cl. 240—8.5.)



An electric pocketlamp comprising in combination an oblong metallic sectional casing with wedge shaped head portion, a blade spring fast in the upper section thereof, a countersunk bulb and an inwardly sunk reflecting lamp-holder in the wedge-shaped head of the upper section, a double layer insulating pad in the lower section, a contact spring interlaced in said pad, a battery having opposite conducting faces pressed against the upper and lower spring respectively, a switch member in the wedge shaped head of the lower section, and a contact plate in permanent electric connection with the bulb and in interrupted connection with the lower contact spring.

1,346,105. ADJUSTABLE COUNTERSINK. CHARLES O. BOSSE, Tacoma, Wash. Filed June 3, 1918. Serial No. 237,997. 1 Claim. (Cl. 77—75.5.)

An adjustable countersink comprising a head having a substantially conical front end, said head having grooves

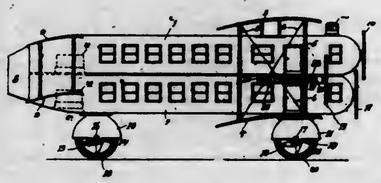


from end to end whose bottoms converge toward the apex of said conical end but terminate in spaced relation, blades in said grooves with their inner edges slidable along said bottoms thereof, and means for sliding said blades in said grooves; said blades having oblique cutting edges forming pointed front ends therefor, said pointed ends being movable toward each other as said blades are projected forwardly from the head, due to said converging groove bottoms.

1,346,106. PURIFICATION OF AMMONIUM SALTS. VLADIMIR BREDLIK, New York, N. Y. Filed Aug. 23, 1919. Serial No. 319,507. 5 Claims. (Cl. 23—21.)

1. The method of preparing a neutralizing agent for treating ammonium salts containing free acid which consists in dissolving out the organic impurities from crude ammonia liquor.

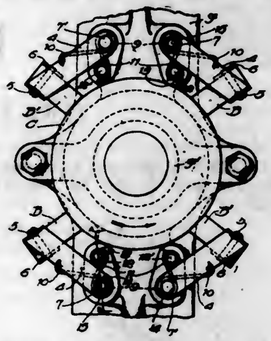
1,346,107. AEROPLANE. ANTONIO ALBERICO, Joliet, Ill. Filed May 21, 1919. Serial No. 298,688. 8 Claims. (Cl. 244—14.)



1. An aeroplane having a body divided into upper and lower stories, a propeller located centrally in front of each story, and a pair of side propellers located substantially midway of the height of the said body, separate pairs of motors having the different motor of each pair located respectively in the upper and lower stories, and common driving connections between the said different motors of each pair and the center and side propellers respectively.

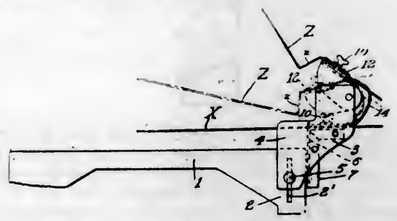
1,346,108. BRUSH-RIGGING FOR DYNAMO-ELECTRIC MACHINES. EDWARD F. ANDREWS, Chicago, and RAY E. ACRE, Wheaton, Ill., assignors to Universal Engineering Company, Maywood, Ill., a Corporation of Illinois. Filed Mar. 28, 1919. Serial No. 285,775. 2 Claims. (Cl. 171—324.)

1. In combination with the commutator and framework of a dynamo electric machine, a brush rigging comprising a brush, a brush arm by which the brush is carried, a brush arm supporting pin having one end thereof embedded in the frame and projecting therefrom in a line adjacent the commutator and parallel to the axis thereof, said brush arm supporting pin constituting a pivot whereon said brush arm is mounted, the brush arm being removable over the outer end of the supporting pin, and a spring



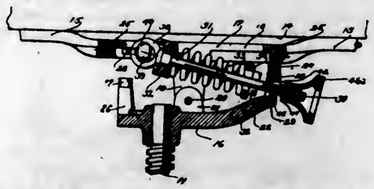
arranged and adapted to engage the brush arm to hold the brush in engagement with the commutator.

1,346,109. FOLDING DEVICE. ROBERT ASTLEY, Boston, Mass. Filed Nov. 22, 1919. Serial No. 339,949. 15 Claims. (Cl. 270—61.)



5. In a folder of the class described, a support for a sheet stack, a floating folder supported to rest by gravity on the top of the stack and adjustable thereacross.

1,346,110. CHAIR. HARRY A. ATWOOD, Milwaukee, Wis. Filed Mar. 13, 1920. Serial No. 365,455. 4 Claims. (Cl. 155—77.)

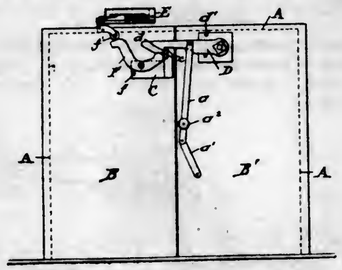


1. A chair comprising a supporting member, a tiltable iron, means pivotally connecting the tiltable iron with said member, and means for yieldingly restraining the tiltable iron from movement and including a contractile spring, a stud integral with said tiltable iron to one side of its pivotal connection with the supporting member, a guide having an end engaging one termination of the spring and its other end provided with an eye pivotally engaged with said stud, and means connecting the other end of said spring with the supporting member on the side of its pivot opposite said stud.

1,346,111. COMBINED LOCKING AND CIRCUIT-CONTROLLING DEVICE FOR DOUBLE DOORS. FRANZ A. BOEDTCHER, Bergenfield, N. J. Filed Oct. 14, 1916. Serial No. 125,757. 3 Claims. (Cl. 200—54.)

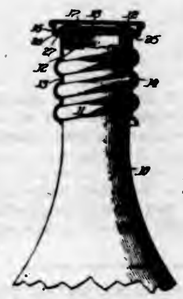
3. In a device of the class described, the combination of a door casing provided with a double door, an electric

circuit controlling switch mounted on the door casing, a pivoted and gravity controlled member located on one door with an upwardly extending portion adapted to close said switch, a locking member mounted on one door, a keeper for said locking member mounted on the other door,



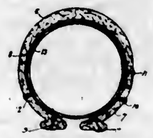
said keeper being so arranged and disposed that when the door is locked the pressure of the locking member on the pivoted member causes the pivoted member to close the switch and the pivoted member being so arranged and disposed that it will close the switch at no other time.

1,346,112. SEALING-CAP. RICHARD E. BRUNS, Chicago, Ill. Filed Mar. 4, 1918. Serial No. 220,142. 8 Claims. (Cl. 215—13.)



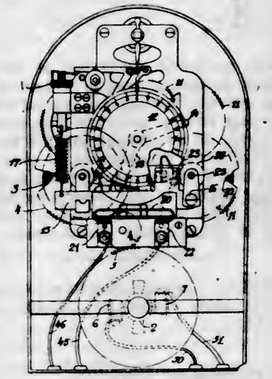
1. A closure for bottles having screw-threads, comprising in combination, a screw-cap, a metallic disk located in the upper end of said cap, said disk being provided with an annular groove shaped to conform to the extremity of the bottle, the groove being formed by upsetting the metal thereby providing a rib adapted to contact the end wall of the cap, and a non-metallic sealing disk secured to said metallic disk and adapted to be forced into the open end of the bottle, the parts being so arranged that the groove engages the extremity of the bottle as the non-metallic disk is seated in the open end thereof, substantially as described.

1,346,113. PNEUMATIC TIRE. SHELBY L. CHURCH, Houston, Tex. Filed July 1, 1918. Serial No. 242,947. 1 Claim. (Cl. 152—26.)



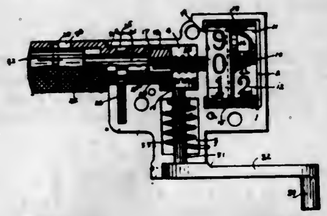
The combination with a tire casing, from which an edge section has been removed, of a corresponding independent section fitted into the space left by said removed section, an inner shoe fitted within the casing opposite said substituted section, said inner shoe conforming to the contour of the casing, a row of rivets securing said shoe to the casing on the injured side of the casing, a row of rivets securing said substituted section to said shoe, and a row of rivets securing the opposite side of the shoe to the casing, all of said rivets being passed through from the inner to the outer side of the casing, and having enlarged heads which are flush with the inner surface of the repaired casing, and whose outer ends are clenched over to secure them against withdrawal from the casing, and a row of staples on each side, passing through the edges of the shoe and through the adjacent heads of the casing from the inner to the outer side, the outer ends of said staples being clenched over to secure them from withdrawal.

1,346,114. TIME-SWITCH. DAVID H. DARRIN, Maywood, N. J. Filed Jan. 31, 1917. Serial No. 145,594. 6 Claims. (Cl. 200—36.)



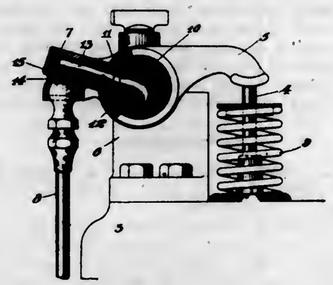
1. In an automatic timing device, the combination with timing mechanism, of a power storing spring for driving said timing mechanism, a movable controlling member, means for transmitting the back pressure of said spring to said controlling member, and yielding means opposing said back pressure and moving said member against said pressure when said pressure decreases below a predetermined minimum.

1,346,115. LINE-INDICATING DEVICE FOR TYPEWRITERS. LINDEN PETER CARHART, Brooklyn, N. Y., and SARA SHAUGHNESSY, Jersey City, N. J. Filed Apr. 18, 1917. Serial No. 162,855. 3 Claims. (Cl. 235—102.)



1. A device of the character described comprising a shaft adapted to operate an indicator, a gear loose upon said shaft, a sleeve slidably but non-rotatably mounted upon said shaft and having at one end a ratchet face adapted to engage a ratchet face on the said gear, said sleeve having its periphery formed with a series of notches, a pin yieldingly engaging in said notches and means for rotating said gear.

1,346,116. LUBRICATING MEANS FOR VALVE-OPERATING DEVICES. ENOS A. DE WATERS, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 25, 1919. Serial No. 306,727. 9 Claims. (Cl. 184—6.)



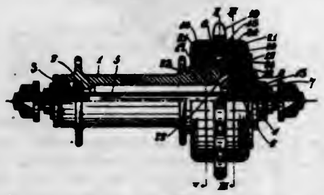
1. In a valve operating mechanism of the class described, a hollow member adapted to contain oil, and provided with an exterior bearing and an oil port leading thereto; a second member pivotally supported on said bearing and having an oil passage adapted to register at times with said oil port; an absorbent oil conveying member extending through said oil port; and a second absorbent oil conveying member in said passage and so positioned as to receive oil from said first absorbent member when the passage is in register with the oil port.

1,346,117. SPOOL. CLEMENS E. EHNBORN, Chicago, Ill. Filed Oct. 22, 1919. Serial No. 332,426. 6 Claims. (Cl. 242—123.)



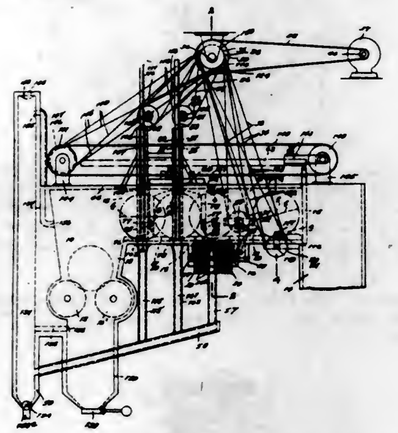
1. A spool comprising a hub of wood or the like having a reduced cylindrical projection at each end, there being a peripheral groove at the base of each projection; sheet metal flanges having central hubs fitted snugly over said projections and spun into said grooves; and rings seated in the grooves thus formed in the hubs of said flanges, substantially as described.

1,346,118. BACK-PEDALING BRAKE AND COASTER. EDVARD ENSTRÖM, Lidköping, and ERNST HJALMAR WALODDI WEIBULL, Gottenborg, Sweden. Filed May 16, 1919. Serial No. 297,646. 5 Claims. (Cl. 208—57.)



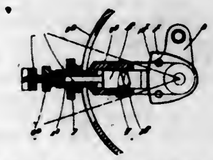
1. In a back-pedaling brake and coaster, the combination of a barrel hub, a brake ring surrounding a portion of said barrel hub, a row of engagement members around said brake ring, a second row of engagement members around a portion of said barrel hub, a common retainer for both said rows of engagement members, and a driving sprocket surrounding both said rows of engagement members and provided with eccentric surfaces for engagement with said members.

1,346,119. UNSHEATHING AND PULVERIZING MACHINE. CROSBY FIELD, Washington, D. C. Filed Nov. 14, 1918. Serial No. 262,425. 15 Claims. (Cl. 164—10.5.)



1. In a machine of the character described for removing the sheath from a sheathed mass of material, slitting means, means for supporting said sheathed mass, said slitting means adapted to engage said sheath, and means adapted to produce relative movement of one of said means with respect to the other means to cause said slitting means to slit said sheath longitudinally along its side to permit of bodily removal of said sheath from said mass.

1,346,120. SEWING-MACHINE. CHARLES EDWARD FRANCIS, Westminster, London, England, assignor to Vickers Limited, Westminster, England. Filed Jan. 19, 1918. Serial No. 212,608. 16 Claims. (Cl. 112—210.)



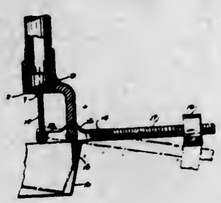
1. Stitch regulating and reversing mechanism comprising an axially adjustable stop, and an abutment member co-acting therewith, said stop and abutment member being relatively movable, the position which one may assume relative to the other being determined by the axial adjustment of said stop, the operative face of the abutment member being of a projecting form on the outer side of an imaginary straight line between the operative extremities of said face in order to minimize the necessary axial adjustment of the stop toward and away from the abutment member.

1,346,121. BEARING. LOUIS GOLLY, Brooklyn, N. Y., assignor of fifty-one per cent. to Andrew Albright, Jr., New York, N. Y. Filed May 9, 1916. Serial No. 96,270. 9 Claims. (Cl. 64—36.)

9. A bearing of the character described comprising two concentric bearing members having facing surfaces each affording two raceways, and two sets of balls engaging said raceways and being parallel with each other and in staggered order with the balls of one set entered partly between and engaging the balls of the adjacent set, the raceways on the inner member being more widely separated from each other than the raceways on the outer member, whereby the balls are caused to engage the raceways on diagonal lines convergingly extending from the more widely separated raceways to the more closely arranged raceways, and whereby also said balls, while normally having four points of contact, during the progressive action of the movable parts of the bearing are given three points of contact, two for each ball being against its offset raceways and one being the contact of the balls in one set against the balls in advance in the other set and whereby said balls of each set in the operation of the bearing and when the driven main member thereof is turning forwardly or counterclockwise are caused to roll toward and against the balls in the other set and in an outwardly direction on angular lines.



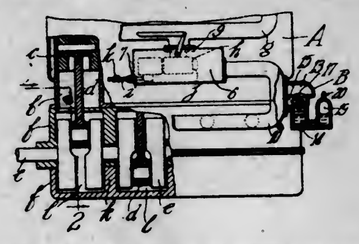
1,346,122. DRINKING-FOUNTAIN. NATHAN F. GREEN, East Haven, and JOHN PETRAKA, Shelton, Conn. Filed Sept. 4, 1919. Serial No. 321,665. 2 Claims. (Cl. 119—81.)



1. The combination with a pan, of a lever formed with a downwardly projecting lug secured to the inner edge of the said pan, said lever formed with inwardly projecting fingers and an outwardly projecting arm, a counterbalance weight adjustably mounted on said arm, a nipple adapted to be secured to the lower end of a supply pipe, said nipple formed with a downwardly projecting post pivotally connected with said fingers at a point within the periphery of the pan, said nipple formed in its lower end with a passage, and a stem pivotally connected with the inner ends of the said fingers projecting upward through said passage and formed with a head adapted to open and close the said passage.

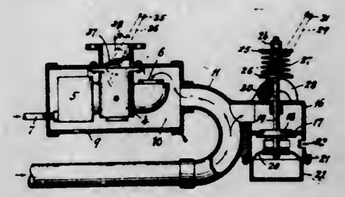
1,346,123. INTERNAL-COMBUSTION ENGINE. FREDERICK C. GUERRLICH, Stamford, Conn. Filed May 17, 1918. Serial No. 235,148. 15 Claims. (Cl. 123—119.)

1. An inclosure containing air tending to vary in density, in combination with density controlling means normally exposed to the external atmosphere and tending to act to reduce the density of said air when said density becomes greater than a predetermined density, and means for



preventing said density controlling means from being substantially affected by variations in atmospheric pressure.

1,346,124. INTERNAL-COMBUSTION ENGINE. FREDERICK C. GUERRLICH, Stamford, Conn. Filed Dec. 3, 1918. Serial No. 265,090. 8 Claims. (Cl. 123—119.)



1. An inclosure for supplying air to an internal combustion engine and a carbureter therein, in combination with means for continuously supplying air to said inclosure in excess of that supplied to said engine, means for maintaining the pressure of the air in said inclosure approximately fixed for a given atmospheric pressure, means for preventing variations in surrounding atmospheric pressure from affecting the action of said pressure maintaining means, and adjustable means for modifying the action of said pressure maintaining means so as to cause an increase in pressure within said inclosure when desired.

1,346,125. SANITARY TEETH-CLEANER. ROY HASBROOK, New York, N. Y. Filed June 2, 1919. Serial No. 301,253. 6 Claims. (Cl. 132—13.)



1. A device of the character described, comprising a wire frame provided with means for supporting a container and further provided with a pair of extending end portions; a shank provided with a pair of reverting edge portions for engaging said extending end portions, said shank being further provided with a tongue serving as a cutter; a leaf pivotally mounted upon said shank and provided with a portion formed into an arcuate guiding member for receiving a length of floss supplied from said container, and

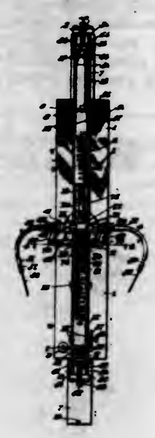
means for maintaining an exposed portion of said floss stretched across said arcuate guiding member, for use upon the teeth.

1,346,126. APPARATUS FOR PIERCING TIMBER. PAUL J. HOWE, Ridgewood, N. J. Filed Apr. 28, 1920. Serial No. 377,375. 14 Claims. (Cl. 144—2.)



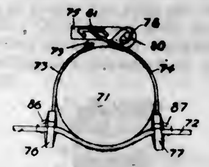
1. Timber piercing means comprising a rotary toothed element and means for intermittently exerting pressure on said element transversely of its axis of rotation.

1,346,127. COMBINED BLOOD-TRANSFUSION AND ASPIRATING APPARATUS. MARTIN LEWIS JANES, New York, N. Y. Filed Mar. 20, 1920. Serial No. 367,357. 15 Claims. (Cl. 128—214.)



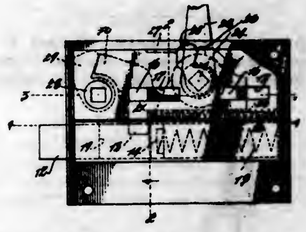
1. An apparatus of the class set forth comprising a support, a pair of syringes mounted on the support, means connecting the plungers of said syringes for simultaneous movement in opposite directions relatively to the syringe barrels, a member mounted on the support having two passages therethrough, means connecting each of said passages intermediate its ends with one syringe barrel, a pair of valve casings held to said member, and a pair of valve plugs rotatable in said valve casings each having a passage therethrough adapted to connect either of the passages through the member with a single passage through its valve casing.

1,346,128. DEVICE FOR ATTACHMENT OF ELECTRIC CONDUCTORS TO INSULATORS. FREDERICK HENRY KAMM, Frederiksberg, near Copenhagen, Denmark. Filed June 4, 1919. Serial No. 301,747. 6 Claims. (Cl. 173—313.)



4. A device for attaching line wires to insulators comprising a pair of bands located one on either side of the insulator and having ends engaging the line wire at spaced intervals and means for forcing the free ends of the bands toward each other, said means being a hinge, comprising a bearing member, connected to the free end of one of the bands, and a link, being attached to the free end of the other band and journaled and free to slide in the bearing member, so that the link by being turned in the bearing member, tightens the bands and the line wire about the insulator, the said bands engaging the line wire at a spaced interval in such a manner that when they become actuated by the tensions produced by the process of erection, they will adjust themselves closely to the largest possible portion of the circumference of the groove of the insulator.

1,346,129. LATCH. NIXON LEE, Brooklyn, N. Y., assignor, by mesne assignments, to National Seal Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed May 10, 1919. Serial No. 296,048. 7 Claims. (Cl. 292—169.)



1. A latch comprising a latching-bolt, a spring constantly forcing said bolt into its extended position, a unitary laterally sliding member bearing against said bolt only to retract same, a second spring connected with said unitary member to hold the latter under outward spring pressure in all positions of said latching-bolt, and means, comprising a pair of independently operable swinging arms, each yieldingly held in inoperative position by said second spring, to actuate said sliding member against both of said springs to retract said bolt.

1,346,130. OIL-CAN LEVER MECHANISM. GUSTAVE LIDSEEN, Chicago, Ill. Filed June 28, 1917. Serial No. 174,448. 3 Claims. (Cl. 74—39.)



1. The combination with a socket member having a slot therein, a lever projecting through said slot, and

apertured members engaged on the exterior and interior portions of said lever and co-acting with said slotted member to hold the lever fulcrumed in operating position.

1,346,131. CONCRETE-FORM SUPPORT AND BRACKET. EDWARD C. MARQUA, Kansas City, Mo. Filed June 8, 1918. Serial No. 238,811. 1 Claim. (Cl. 20—94.)

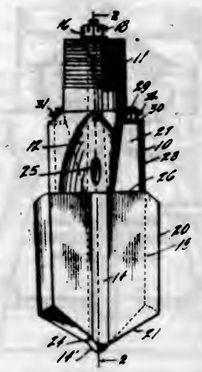


A metal bracket comprising a sheet having its edges bent backe to provide attaching beads having perforations, to receive fastening devices, the outer edges of the sheet beam bent at right angles to the beads to form parallel wings, said wings having alining perforations and a stringer rest receivable in pairs of alining perforations.

1,346,132. MEDICINE. USHITARO MATSUURA, Otagi-Gun, Kyoto-Fu, Japan. Filed June 29, 1917. Serial No. 177,831. 2 Claims. (Cl. 167—9.)

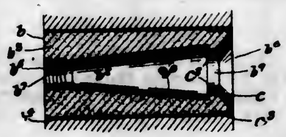
1. A new medicine for skin diseases comprising the distillate obtained by the dry distillation of rice-bran or wheat-bran.

1,346,133. WELL-DRILLING BIT. PENELTON G. MIDGETT, Dallas, Tex. Filed Feb. 28, 1920. Serial No. 361,912. 4 Claims. (Cl. 255—61.)



1. In a drill bit, a head, removable wings depending from the head, and a removable point depending from the head between the wings and projecting below the wings, the wings having continuous cutting edges along their sides and bottoms, contiguous to the point.

1,346,134. HYDROCARBON-BURNER. JOSEPH NEEDHAM, New York, N. Y. Filed Aug. 18, 1919. Serial No. 318,092. 4 Claims. (Cl. 158—78.)



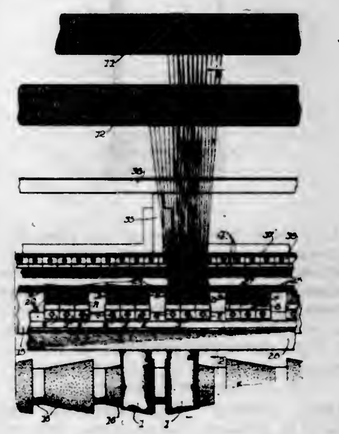
1. A hydrocarbon fuel nozzle for use in connection with hydrocarbon fuel furnaces or similar apparatus, said nozzle comprising a central tubular member having inlet and discharge ends, a metallic shell inclosing said tubular member, and a casing of asbestos or similar material between said member and said shell and extending approximately the full length thereof.

1,346,135. AUTOMOBILE-LOCK. ALLEN A. RITCHIE, Houston, Tex. Filed Dec. 2, 1919. Serial No. 341,988. 1 Claim. (Cl. 70—90.)



The combination with an automobile steering column and shaft having alined holes through the column and shaft, of a pair of arcuate clamps hinged together at one end and adapted to be secured around said column and whose free ends are outwardly turned so as to fit together when clamped in position, a locking pin formed rigidly with and extending inwardly from one of said clamps and adapted to project entirely through all of said holes and secure said shaft against turning relative to the column when the clamps are secured around said column the other clamp having a socket into which the free end of the pin projects whereby said free end is anchored to the last mentioned clamp and a lock for securing the clamps around the column.

1,346,136. MACHINE FOR AND METHOD OF PRODUCING KNITTED PUTTEES AND THE LIKE. EDWARD C. SCHWAB, Milwaukee, Wis., assignor to Phoenix Knitting Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 11, 1918, Serial No. 234,013. 11 Claims. (Cl. 66—33.)

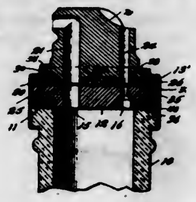


1. In combination a comb plate, a needle frame having a row of needles guided in said comb plate and separate means for feeding yarn at a greater rate along the needles on one edge of the row than along the other edge of the row.

1,346,137. BOTTLE-VALVE MOUNTING. FRANK H. SILVERTHORNE, New York, N. Y. Filed Nov. 4, 1919. Serial No. 335,735. 8 Claims. (Cl. 215—57.)

1. A closure for a bottle including a rotary valvular construction for controlling the flow from the bottle said construction including a nozzle seat provided with an opening extending therethrough, a pouring nozzle rotatably mounted on said seat and provided with an opening

adapted to register with the opening in the seat when the nozzle is rotated into its open position, a retaining ring encircling said nozzle and constituting the sole means for holding the same in rotatable relation to the seat, means constituting an extension from the ring for securing the



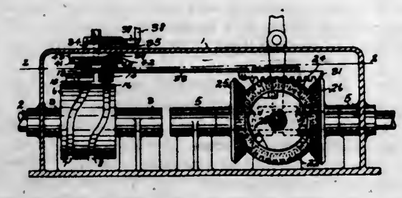
same to the rear seat and a ferrule distinct from the retaining ring and engaging the seat to fasten the closure to the bottle, said ferrule adapted to be spaced from the rotatable nozzle whereby the binding of the ferrule on the bottle will have no effect on the case of rotation of the nozzle.

1,346,138. FLASH-LIGHT DEVICE. PAUL C. SMALLEY, Newark, N. J. Filed Mar. 29, 1919. Serial No. 286,186. 2 Claims. (Cl. 240—8.5.)



2. In a flash light device of the class described, the combination of a casing, batteries and a lamp therein, a contact device for establishing electrical connections between said batteries and said lamp, a recessed lens for positioning a reflector circumferentially free within said casing provided wth a screw threaded portion for securing it to the casing and insulating the reflector from said casing.

1,346,139. POWER - TRANSMITTING MECHANISM. ROBERT W. J. SMITH, Houston, Tex. Filed May 9, 1919. Serial No. 295,983. 3 Claims. (Cl. 74—14.)

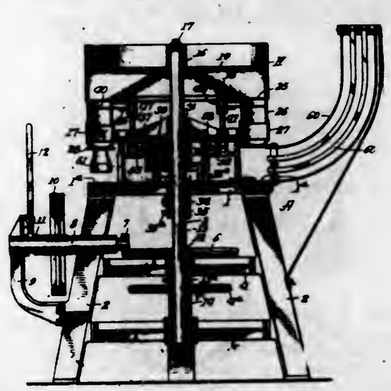


1. The combination with a driving shaft, of a driven shaft, a mechanism operatively connected with and adapted to drive said driven shaft, means through which said mechanism may be connected to the shaft so as to drive it in either direction, a pair of oscillating arms, a pair of cams fixed upon and rotated by the driving shaft, and in operative connection with said arms, and through which the arms are oscillated, a link having a slidable connection at one end with each arm, a pair of rack members in operative connection with said mechanism, and to which the other ends of said respective arms are pivoted, said rack members being operatively connected with said mechanism, and alternately actuating the same continuously to impart a continuous rotation through said mechanism to said driven shaft.

1,346,140. PROCESS OF PRODUCING PRINTS ON METAL. PHILO V. SNOW, Dallas, Tex. Filed Sept. 11, 1919. Serial No. 323,121. 7 Claims. (Cl. 41—27.)

7. In a process for producing photographic prints on metal which includes making a negative, printing on a sensitised metal plate which has been cleaned and smoothed before being sensitised, developing the print, dyeing the print, removing stains and streaks from the dyed print, drying the print, burnishing the print with suitable materials, intensifying the highlights, rubbing the print to produce a final polish, and coating the print with a preserving lacquer.

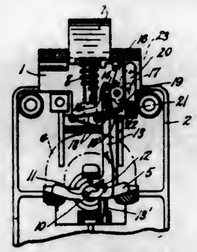
1,346,141. CAN-FILLING MACHINE. CLARENCE E. STEERE, Milwaukee, Wis., assignor to Henry Scarborough, Milwaukee, Wis. Filed Jan. 10, 1917. Serial No. 141,537. 16 Claims. (Cl. 226—96.)



1. In a can filling machine, the combination of a frame having a fixed can-supporting table member, means for moving cans on the table member, a vertical shaft supported in said frame, means for rotating the shaft, means for vertically adjusting said shaft, a multiple can filling head entirely supported and rotated by said shaft and comprising a rotating hopper and adjustable measuring funnels, said filling head being vertically adjustable as a unit by the adjustment of the shaft to adapt the structure to different sizes of cans.

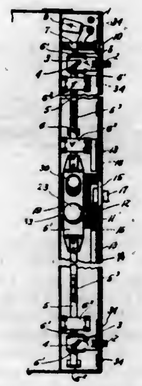
1,346,142. LOCK. ERNEST L. TRICH, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed May 1, 1919. Serial No. 293,972. 5 Claims. (Cl. 70—29.)

1. In a lock, the combination of a latch-bolt, manually operable means for dogging said latch-bolt, a guard for said dogging means holding the same out of action when the door is open, and means projecting laterally through



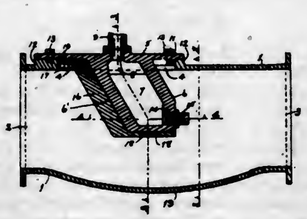
the side of the lock for automatically throwing said guard out of action when said door is closed.

1,346,143. FIRE-DOOR LOCK. ERNEST L. TRICH, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed July 14, 1919. Serial No. 310,826. 3 Claims. (Cl. 70—74.)



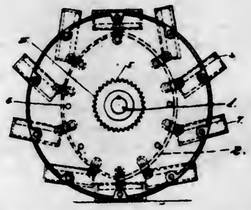
1. In a fire door lock, the combination of an angle-plate, throw bolts carried thereby, a mortise lock also carried thereby, knobs for actuating the latch of said mortise lock and said throw bolts, and a sheet metal door within which said angle-plate and mortise lock are located, the metal of said door extending partially over the face-plate of said mortise lock, said face plate having a projection which surrounds the latch bolt of said mortise lock, extending through the edge of said door and flush with the outer surface thereof.

1,346,144. PNEUMATIC CONVEYER. LOUIS C. VANDERLIP, Elkhart, Ind. Filed July 27, 1916, Serial No. 111,573. Renewed Nov. 28, 1919. Serial No. 341,270. 8 Claims. (Cl. 137—75.)



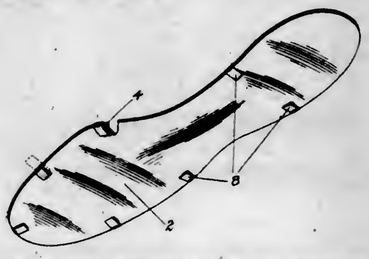
1. In a device of the class described, the combination with a channeled body member having suction intake and discharge openings substantially in axial alinement and provided with a hollow member projecting into the channel of said body member, said hollow member being adapted to introduce fluid under pressure into the channel of the body member and axially of said intake and discharge openings, of a buffer plate or wear member removably arranged in front of said hollow member and extending substantially to the end thereof.

1,346,145. TRACTOR-WHEEL. HARRY VASS, Summit, N. J. Filed June 26, 1919. Serial No. 306,899. 5 Claims. (Cl. 305—13.)



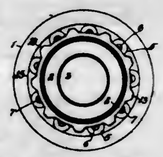
1. A device of the class described comprising a pair of wheels pivoted on an axle, a plurality of shoes pivoted between said wheels, and means on said axle to guide said shoes so that the same always assume a horizontal position when contacting with the ground, said means including a cam fixed to the axle, and a device carried by the shoe and adapted to move along said cam as the wheels rotate.

1,346,146. SHOE. GEORGE E. WARREN, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 6, 1917. Serial No. 189,952. 10 Claims. (Cl. 36—43.)



1. As an article of manufacture, a sole having members adapted to extend beyond its periphery and be engaged with a last to secure the sole in position on the last.

1,346,147. UNIVERSAL ROLLER-BEARING. EDGAR P. WEBSTER, Bridgeport, Conn. Filed Jan. 15, 1918. Serial No. 211,987. 2 Claims. (Cl. 64—62.)



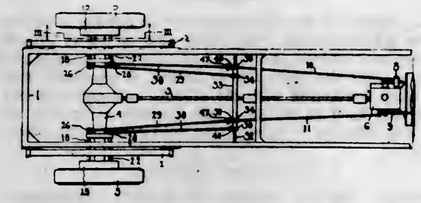
1. In a roller bearing, an outer and an inner race ring, rollers interposed between the rings and having a recess in each end thereof, and a cage having sides connected by a peripheral portion, the latter formed with openings to receive the rollers, said cage being formed with fingers integral therewith and located at the ends of the openings in spaced relation to the sides of the openings, said cage

being formed of sheet metal whereby upon applying pressure to the sides of the cage said sides will be caused to approach each other to effect entry of the fingers into the roller recesses and the bridges resultant from the openings will be deflected outwardly.

1,346,148. PROCESS OF PRODUCING PYROPHOSPHATES. HYLEMAN ALISON WEBSTER, Columbia, Tenn. Filed Sept. 24, 1919. Serial No. 325,879. 4 Claims. (Cl. 23—13.)

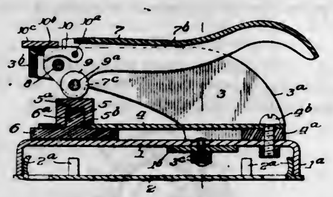
1. The process of making pyrophosphates from monocalcium phosphate, which consists in reacting upon the latter with a salt having a stronger basic ion than the calcium ion present and a weaker acid ion than that of pyrophosphoric acid, substantially as described.

1,346,149. MOTOR-VEHICLE. FRANK A. WHITTEN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 17, 1918. Serial No. 240,370. 15 Claims. (Cl. 188—79.)



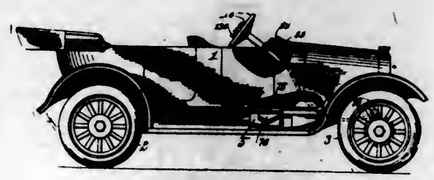
4. In a motor vehicle having a pair of service brakes, and a pair of emergency brakes, operating rods therefor, a rotatable cross shaft, a tubular shaft rotatable thereon, pairs of arms fixed respectively to the shafts, the members of each pair of arms being pivotally connected to the corresponding rod, a foot pedal and a hand lever and a pair of rods, one connected to the foot pedal and the other to the hand lever, the parts being so constructed and arranged that one of the last named rods may be pivotally connected to an arm on the cross shaft and the other likewise connected to an arm of the tubular shaft, or the first of the last named rods may be pivotally connected to the other arm of the tubular shaft and the second of the last named rods likewise connected to the other arm of the cross shaft.

1,346,150. SEAL-PRESS. ARTHUR M. WILLARD, Chicago, Ill. Filed Mar. 24, 1919. Serial No. 284,711. 13 Claims. (Cl. 101—3.)



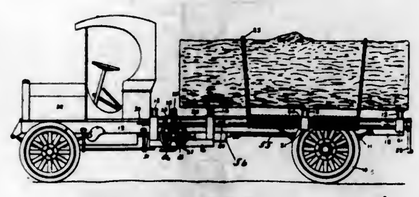
1. In a seal press, a rigid bed, a stationary die mounted on said bed, a movable die coacting with said stationary die, a transversely flexible, but horizontally rigid and longitudinally inextensible, spring plate carrying said movable die at one end thereof, means clamping the face of said plate at the other end thereof, rigidly to the bed, and leaving the plate free to act as a radius arm by its inherent transverse flexibility, but restricting such radius arm action to the portion of said plate outside of its anchorage upon the bed, and means for pressing the dies together.

1,346,151. AUTOMATIC GEAR-SHIFT FOR AUTOMOBILES. HAROLD K. ALTICK, Dayton, Ohio. Filed Mar. 26, 1917. Serial No. 157,472. 29 Claims. (Cl. 74—97.)



1. The combination with an automobile, the engine, and the transmission gear thereof, of motion transmitting means actuated directly from said engine to shift said gear, and speed controlled means for said gear shifting means.

1,346,152. LOADING AND HAULING AUTOMOBILE-TRUCK. ORA AMOS, ROY AMOS, and EPHRAIM A. MCKEE, Edinburg, Ind. Filed Sept. 25, 1918. Serial No. 255,620. 8 Claims. (Cl. 254—166.)



2. The combination with a truck having a motor for driving it, a frame for receiving a load, and loading chains coöperating therewith, of a windlass shaft extending longitudinally of the truck and mounted to the frame thereof along one side of the truck for operating the chains, a shaft at right angles to the windlass shaft and the driving shaft of the truck motor, a worm drive connecting said windlass shaft and right angled shaft, a friction wheel on said right angled shaft, and a friction disk on the driving shaft of the truck motor for driving the friction wheel for operating the windlass shaft, said shafts and the means for driving the same from the motor being located below the top of said frame.

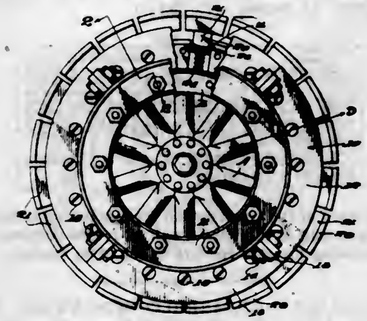
1,346,153. SULFUR COLOR AND PROCESS OF MANUFACTURING THE SAME FROM ALOE RESIN. ALAN I. APPELBAUM, Trenton, N. J., assignor to The Import and By Products Company, Incorporated, Trenton, N. J., a Corporation of Delaware. Filed June 10, 1918. Serial No. 239,178. 13 Claims. (Cl. 8—1.)

1. The process of producing a sulfur color, which comprises mixing together aloe resin, sulfur, sodium sulfid and water and applying heat thereto.

1,346,154. SULFUR COLOR AND PROCESS OF MANUFACTURING THE SAME FROM ALOES. ALAN I. APPELBAUM, Trenton, N. J., assignor to The Import and By Products Company, Incorporated, Trenton, N. J., a Corporation of Delaware. Filed Feb. 5, 1919. Serial No. 275,243. 3 Claims. (Cl. 8—1.)

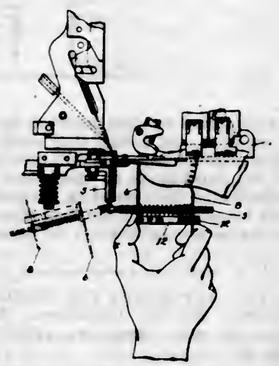
2. The process of producing a sulfur color which comprises mixing together aloes, sulfur and caustic soda and water and heating the same under a pressure greater than atmospheric pressure, thereafter dissolving the product thus produced in water and precipitating from the solution thus formed the color material.

1,346,155. RESILIENT TIRE. GEORGE A. ARNOLD, Irwin, and ELMER J. GROSS, Trafford, Pa. Filed June 10, 1919. Serial No. 303,022. 2 Claims. (Cl. 152—8.)



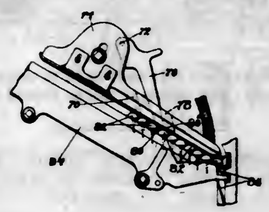
1. In a resilient tire, the combination of a carrying portion adapted for attachment to a wheel rim, composed of a plurality of detachably connected sections, said sections each including a body portion and a confining plate, the body portion provided with recesses opening out at one side thereof, the confining plates being attached to the body portions and closing the open sides of the recesses, a plurality of radially movable tread members provided with shanks extending into said recesses, springs engaging said tread members and normally urging them outwardly, ribs carried by said confining plates and said body portions for limiting the outward radial movement of the tread members, lateral extensions formed upon the inner ends of the shanks for engaging the ribs, bearing rollers carried by said extensions engaging the opposite side walls of the recesses in the carrying portion, bearing rollers carried by said carrying portion and engaging the sides of the shanks opposite to the sides which carry said extensions.

1,346,156. SHOE-TIP-MEASURING MECHANISM. ORRELL ASHTON, deceased, Swampscott, Mass., by Hannah Ashton, executrix, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 15, 1916. Serial No. 78,520. 13 Claims. (Cl. 12—4.)



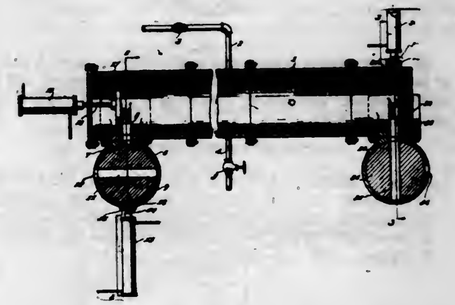
1. In apparatus of the class described, the combination with means for resting a shoe, of a supporting rod movable into a position where it extends lengthwise under the shoe, a plate which is slidingly mounted on the rod and is formed to engage the rear edge of the toe tip, a second plate slidingly mounted on the rod to engage the end face of the toe, and means extending from one plate to the other for indicating the length of the tip of the shoe as measured between said plates.

1,346,157. MACHINE FOR INSERTING FASTENINGS. ALBERT AMOS ASTON, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 15, 1916. Serial No. 115,001. 12 Claims. (Cl. 1—6.)



1. In a fastening inserting machine, a swinging head, mechanism carried by said swinging head for inserting previously formed fastenings successively, a raceway movable with said head for supplying fastenings to the fastening inserting mechanism, and a freely pivoted gate member associated with the raceway and constructed and arranged with relation to the raceway to retain a plurality of fastenings below the gate member from movement away from the fastening inserting mechanism upon agitation of said fastenings by movement of the swinging head in one direction.

1,346,158. CONTINUOUS TIRE-VULCANIZING MACHINE. THADDEUS F. BAILY and FRANK T. COPE, Alliance, Ohio. Filed Mar. 6, 1920. Serial No. 363,729. 6 Claims. (Cl. 18—6.)

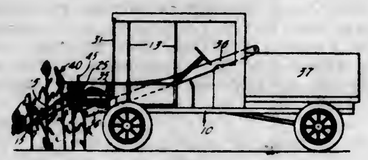


1. A machine for vulcanizing tires comprising a cylinder, means for maintaining steam at a desired temperature within the cylinder and means for placing tires within the cylinder for vulcanizing and removing vulcanized tires therefrom without exhausting steam from the cylinder.

1,346,159. HARVESTING-MACHINE. ELBRIDGE BAKER, Los Angeles, Calif., assignor of one-fourth to E. P. Tucker, one-fourth to George W. Tackabury, and one-fourth to G. D. Robertson, Los Angeles, Calif. Filed Dec. 12, 1918. Serial No. 266,423. 8 Claims. (Cl. 56—58.)

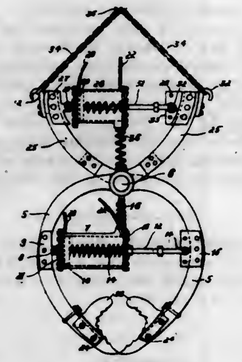
1. In a harvesting machine, the combination of a horizontal cutter and carriage means for carrying it against stalks, means for raising low heads of grain comprising a plurality of downwardly and forwardly extending fingers in front of and below the cutter, said fingers being

substantially parallel and spaced apart to pass stalks of cereals and not to pass the heads, said fingers extending



over the cutter at their rear ends so as to carry the heads above the cutter; and conveyer means behind the cutter.

1,346,160. POWER-OPERATED TONGS. SAMUEL E. BARLOW, Denver, Colo. Filed Mar. 14, 1919. Serial No. 282,620. 15 Claims. (Cl. 294—88.)



15. Power tongs comprising a plurality of spaced pairs of jaws, an axle upon which the jaws are journaled, and a power cylinder and piston connected with and carried by each pair of jaws.

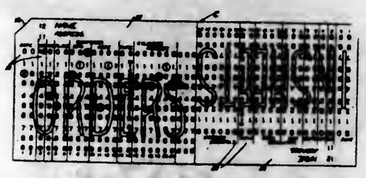
1,346,161. BENT PLY-WOOD AND METHOD OF BENDING SAME. OLIN H. BASQUIN, Evanston, Ill., assignor to Haskelite Manufacturing Corporation, a Corporation of New York. Filed Nov. 14, 1919. Serial No. 337,960. 5 Claims. (Cl. 144—309.)



1. A sharply-bent sheet of plywood of more than two plies having the number of plies in the zone in which the bend occurs reduced to two the inner of which has its grain extending lengthwise of the angle or corner and the outer of which has its grain extending transversely.

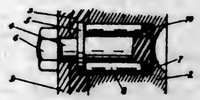
2. The method of forming sharply-bent sheets of plywood having more than two plies which consists in reducing the number of plies in each sheet in the bending zone to two having the grain transverse to each other, placing the sheets in a stack made up of sheets alternating with spacing plates provided with channels registering with the reduced portions of the sheet, introducing steam into the channels, and then bending the sheets in a direction to bring the compression stresses transverse to the grain of that ply in the reduced zone which lies on the inner side of the angle in the completed structure.

1,346,162. STATISTICAL RECORD-CARD. WILLIAM H. BASSETT, East Orange, N. J., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 29, 1918. Serial No. 251,927. 11 Claims. (Cl. 283—1.)



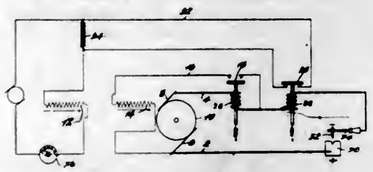
1. A card of the type adapted for controlling accounting machines, said card having a pair of record portions, each portion being inverted relative to the other portion.

1,346,163. ROLLER-BEARING CONSTRUCTION. LEWIS C. BAYLES and FRED M. SLATER, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 21, 1918. Serial No. 250,811. 5 Claims. (Cl. 64—39.)



3. In a roller bearing construction, a rigidly mounted central shaft having an undercut flange at one end, a flange near the opposite end set into a recess of greater depth than the thickness of said flange, rollers free to revolve around said shaft having extensions on each end of smaller diameter than that of the rollers, the extensions at one end projecting into said undercut and the extensions at the other end projecting into said recess.

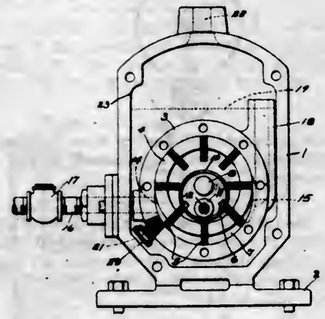
1,346,164. ARC-WELDING GENERATOR. ALAN M. BENNETT, Westfield, N. J., assignor of one-half to C. H. Florandin, Westfield, N. J. Filed Mar. 9, 1918. Serial No. 221,381. 8 Claims. (Cl. 171—223.)



1. In a generator of the class described, the combination with the armature, and a separately excited field, of a shunt field arranged to coöperate with said separately excited field but normally in an open shunt circuit, and means controlled by the current in the armature circuit when closed for closing the shunt field circuit and simultaneously varying the excitation of the separately excited circuit.

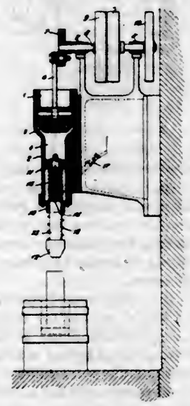
1,346,165. APPARATUS FOR PRODUCING HIGH PRESSURES. REINOLD BERRENBERG, Boston, Mass. Filed Feb. 10, 1917. Serial No. 147,915. 3 Claims. (Cl. 230—6.)

2. An apparatus for producing high pressures, having, in combination, a rotor provided with a series of radially disposed slidable blades providing buckets between said blades, a casing in which said rotor is mounted having a chamber that is traversed by said blades, said casing being provided with inlet and outlet ports at the opposite ends of said chamber and having a restricted aperture formed therethrough to lead lubricant directly to the surface of said chamber traversed by the outer ends of said blades while the buckets are in communication with said inlet port, and means coöperating with said casing to



supply lubricant to said restricted aperture and to conduct the lubricant externally of said casing from said outlet port to said aperture.

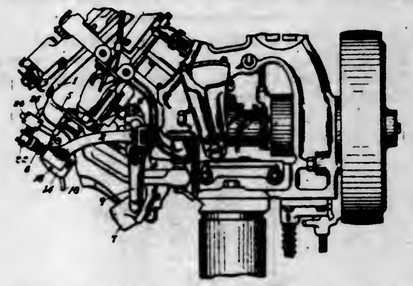
1,346,166. PNEUMATIC HAMMER. JAKOB BERNHARD, Hasle, near Ruegsau, and ARTHUR MEISTER, Ruegsau, Switzerland. Filed Dec. 9, 1919. Serial No. 343,567. 3 Claims. (Cl. 78—42.)



1. In a pneumatic hammer of the character set forth, a cylinder having two coaxial portions differing in length and width of bore and in unobstructed direct communication with each other, a plunger making an air-tight fit with the wider shorter portion of the cylinder, means for reciprocating the plunger in the cylinder, and a hammer member including a piston making an air-tight fit with the narrower longer portion of the cylinder and being reciprocable therein by the movement of the plunger.

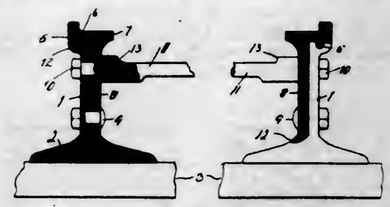
1,346,167. TIP-MEASURING APPARATUS. BUDD D. BOHANON, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 8, 1916. Serial No. 82,883. 14 Claims. (Cl. 12—4.)

1. In a pulling-over machine, means for locating a shoe in the machine in predetermined position, an arm mounted on the machine frame at one lateral side of the pulling-over mechanism for movement about a definite fixed axis extending parallel to the longitudinal median plane of the shoe, and located at a substantial distance from said plane, and a tip line indicating means carried by said arm



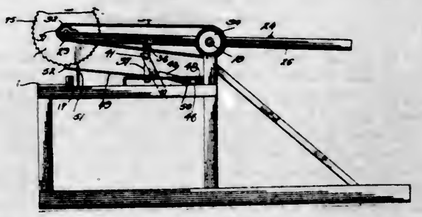
and movable laterally of the shoe into and out of tip measuring relation to the shoe by movement of the arm about said axis.

1,346,168. COMPOUND RAIL AND ELECTRICAL CONDUCTOR. FLETCHER O. BOSWELL, Philadelphia, Pa. Filed Sept. 30, 1919. Serial No. 327,371. 2 Claims. (Cl. 238—144.)



1. In a railway track, the combination of two part rails, one part superimposed upon the other, a housing formed in said rails, feed wires located in said housings and fused to the rails, and spacing rods for holding each line of rails in position relative to the other.

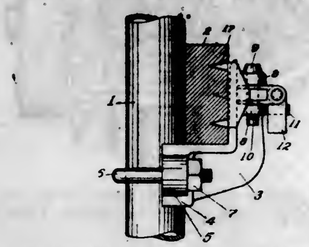
1,346,169. SAWING-MACHINE. GEORGE W. BRAGDON, Smyrna Mills, Me., assignor of one-fourth to P. H. Tarbell and one-fourth to H. J. Tarbell, Merrill, Me. Filed June 16, 1917, Serial No. 175,184. Renewed Apr. 2, 1920. Serial No. 370,900. 1 Claim. (Cl. 143—46.)



In sawing machines, a main frame, a saw frame rockably mounted intermediate its ends thereon, a link having its upper end pivotally secured to said saw frame, spaced arms pivotally secured at their lower ends to the main frame, said link being pivotally secured intermediate its ends between the upper ends of said arms, a transverse operating lever pivotally secured at one end to the main frame, means for normally holding said lever in rearward position, and a connecting link loosely secured at its forward end to the first mentioned link adjacent the lower end thereof and having its rearward end loosely secured to said operating lever whereby, when the operating lever is moved forwardly, the toggle lever formed by the link and arms will be folded and the link will be rocked rearwardly and downwardly about its axis and, when the op-

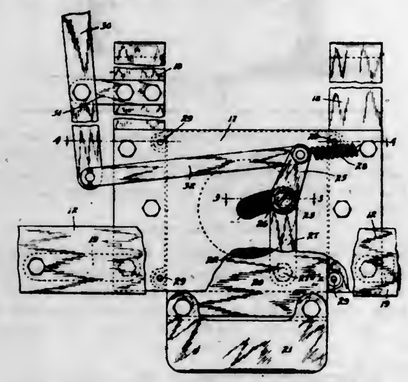
erating lever is moved rearwardly, the toggle lever will be extended and the link will be rocked upwardly and forwardly about its axis so as to raise the saw frame.

1,346,170. ADJUSTABLE STRINGER-SUPPORT FOR SCAFFOLDS. FOKKO H. G. BRANDT and GEORGE K. KRELL, Kansas City, Mo. Filed July 1, 1918. Serial No. 242,816. 3 Claims. (Cl. 304—40.)



1. The combination of an upright, an angle bracket secured to the upright, an angle arm movably carried by the bracket and adapted to hold a stringer upon the bracket and against said upright, and means movable with and independently of said angle arm for engaging the bracket to prevent disengaging action of the said arm.

1,346,171. CAR-BRAKE. SAMUEL N. BRINKER, Minneapolis, Minn. Filed Sept. 22, 1919. Serial No. 325,317. 3 Claims. (Cl. 188—41.)



1. In a car truck, the combination with truck side frames and wheels, of vertically movable shoe carriers equipped with shoes engageable with the rails between wheels, guides for said shoe carriers secured in respect to coöperating truck side frames, eccentrics journaled to said shoes, levers mounted on pivots fixed in respect to the said side frames and pivotally connected to the respective eccentrics at points eccentric to the axes thereof, said levers being movable toward and from the axis of the respective eccentrics, and brake connections to said levers for oscillating the same to throw said shoes into and out of action.

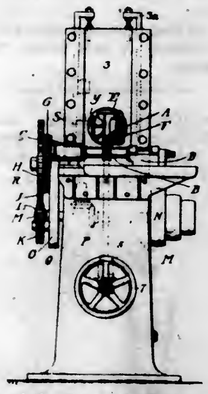
1,346,172. ILLUMINATION. LUCIAN W. BUGBEE and EDGAR D. TILLYER, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Jan. 2, 1917. Serial No. 140,178. 2 Claims. (Cl. 240—1.)

1. A source of luminosity comprising a spherical bulb having a supplemental radiant disposed at the center of the sphere, said bulb having the property of transmission of visible radiations and of reflection of heat radiations, and a main radiant for supplying said radiations encircling the supplemental radiant whereby outwardly directed heat radiations therefrom will be focused back to the supplemental radiant by the inclosing bulb and inwardly



directed heat radiations will have a direct heating action on the supplemental radiant, substantially as and for the purpose described.

1,346,173. MACHINE FOR GRINDING WORMS AND THE LIKE. WILLIAM CANNELL, Springfield, Mass., assignor to Baush Machine Tool Company, a Corporation of Massachusetts. Filed Dec. 8, 1914. Serial No. 876,039. 18 Claims. (Cl. 51—4.)



1. A machine of the class described comprising in combination a grinding wheel, means for rotating it about its central axis, means for rotating the work and means for simultaneously rotating the grinding wheel bodily lengthwise of the work so as to cause the wheel to grind an inclined tooth on the work.

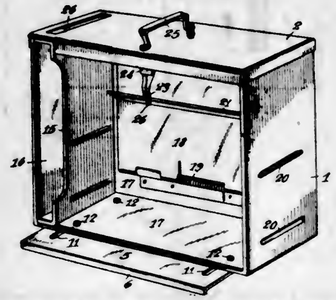
2. A machine of the class described comprising in combination a grinding wheel, means for rotating it about its central axis, means for rotating the work and means for simultaneously moving the grinding wheel bodily in a circular orbit lengthwise of the work so as to cause the wheel to grind an inclined tooth on the work, and means for adjusting the wheel so as to bring its edge into planes corresponding with teeth of different inclinations.

3. A machine of the class described comprising in combination a carrier carrying a grinding wheel, means for rotating the carrier in a direction lengthwise of the work, means for rotating the grinding wheel and means for rotating the work about its lengthwise axis.

4. A machine of the class described comprising in combination a grinding wheel, means for rotating it, means for simultaneously moving it across the work, means for simultaneously moving the work in a direction at an angle to the bodily movement of the wheel so as to cause the latter to grind an inclined tooth on the work and means for effecting a relative movement between the wheel and the work during their engagement with each other in a direction to grind a tooth of varying width at different points in its length.

5. A machine of the class described comprising in combination a grinding wheel, means for rotating it, means for simultaneously moving it across the work, means for simultaneously moving the work in a direction at an angle to the bodily movement of the wheel so as to cause the latter to grind an inclined tooth on the work and means for effecting a relative movement between the wheel and the work automatically through a determined distance during their engagement with each other in a direction to grind a tooth of an automatically determined variation in width at different points in its length.

1,346,174. SAFETY-RECEPTACLE. MAX O. CANNER, New York, N. Y., assignor of one-half to Alexander Duff and Sarah Duff, New York, N. Y. Filed Apr. 17, 1917. Serial No. 162,633. 4 Claims. (Cl. 232—42.)



1. A safety receptacle comprising a casing open at one side thereof, and adapted to be placed outside of and to be closed by the door of the house or apartment, said casing having a compartment provided with a folding shelf hinged to the back of the same at a point above the bottom of said casing, said shelf having an inclined guiding edge portion and being adapted to guide, receive and hold an empty milk bottle so that its mouth projects slightly above the open top of said casing, the said casing also having a hinged cover provided with an automatic locking catch, whereby when the bottle is inserted so as to engage, depress and rest upon said shelf, the said cover is kept out of locking engagement, substantially as described.

1,346,175. PROCESS OF TREATING NICKEL ORES. MARTINUS H. CARON, Weltevreden, Java, Dutch East Indies, assignor to Clevenger & Caron, Washington, D. C., a Firm. Filed May 19, 1919. Serial No. 298,148. 5 Claims. (Cl. 75—18.)

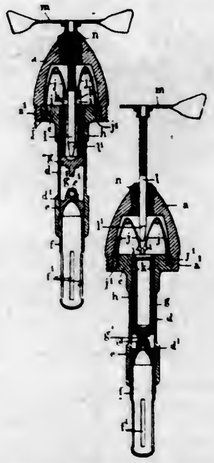
1. In the process of recovering values from nickel silicate ores, the steps which consist in subjecting the ore to a preparatory reducing roast and cooling the reduced ore under non-oxidizing conditions.

1,346,176. HOT-WATER BOTTLE. ALDEN R. CHAMBERS, Winthrop, Mass. Filed Apr. 22, 1919. Serial No. 291,900. 5 Claims. (Cl. 46—40.)



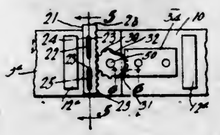
1. A hot water receptacle including a body portion of flexible material a threaded sleeve inserted therein, a hollow head portion, and a threaded sleeve inserted in said head portion for engagement with the first mentioned sleeve to form a closure.

1,346,177. FUSE FOR PROJECTILES. AUGUSTE CHANARD, Ruell, France. Filed Nov. 2, 1918. Serial No. 260,899. 4 Claims. (Cl. 102—2.)



1. A time fuse for projectiles comprising a tubular striker, spring means for operating the striker, cavities in the sides of the striker, ball members located in said cavities and locking the striker in position in readiness for operation, a central rod located in the tubular striker and having a rotating screw and a screw thread for causing axial movement thereof, spring means located at the said cavities and holding the balls in contact with the central rod, said spring means being adapted to cause the release of the striker by the ball members.

1,346,178. WHEEL-RIM. CALVIN F. CHRISTOPHER, Asheville, N. C. Filed July 12, 1919. Serial No. 310,353. 1 Claim. (Cl. 152—21.)

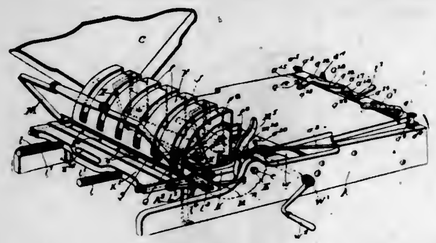


A demountable rim having relatively movable ends; a keeper on one of said ends; an interrupted pinion journaled on the other of said ends and coöperating with the keeper; and an actuating member mounted to slide on the last specified end of the rim, the actuating member having a rack meshing into the pinion.

1,346,179. LOOSE-LEAF-BINDING MACHINE. HENRY M. CRIPPEN, Athens, Ohio, assignor to The Athens Bindery Company, a firm composed of Henry M. Crippen, William N. Alderman, Field Scott, and H. H. Haning. Filed Oct. 14, 1919. Serial No. 330,573. 20 Claims. (Cl. 129—7.)

1. In a loose leaf binding machine, the combination with a plurality of receiving pins, of a bodily movable set of punches, a normally retracted stripper carried thereby; said punches being movable from the punching position into alinement with said pins, means for actuating the punches, and a connection between said punch actuating means and the stripper for actuating the latter to force the sheets from the punches to the pins.

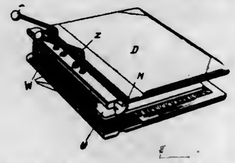
2. In a loose leaf binding machine, the combination with a punching mechanism adapted to carry the sheets or leaves from the punching position to the filing position, of interchangeable sets of receiving or filing pins to receive punched sheets of varying width from the punches.



19. In a loose leaf binding machine, the combination with a plurality of receiving pins and flanged sleeves mounted removably on the pins and inclosing same from their upper ends downwardly, of a punching and transferring mechanism to punch the sheets and transfer them to the said sleeves; the upper ends of the sleeves being adapted to be bent laterally to form upper retaining flanges or tongues.

20. In a loose leaf binding machine of the character described, the combination with the punching and transferring mechanism, the transverse axle serving as the axis thereof and provided with an outer headed end and the receiving pins to which the punched sheets are transferred, of a triangular sheet-receiving box having at its lower end a slotted bracket fitting over the headed end of the axle, as described.

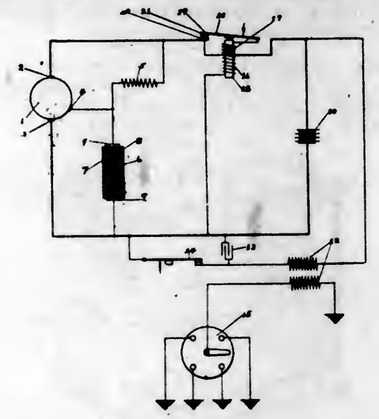
1,346,180. LOOSE-LEAF BINDER. CECIL CUTLER and DANIEL FRANCIS MORAND, Sydney, New South Wales, Australia; said Cutler assignor of his right to Ernest Verey, Sydney, New South Wales, Australia. Filed Oct. 25, 1917. Serial No. 198,383. 9 Claims. (Cl. 129—12.)



1. A loose leaf binder comprising in combination, a binder member, a plurality of riding posts mounted on said member, said posts being bent intermediate their ends so that said ends are disposed angularly to each other, a second binder member independent of and unconnected with the first member, movably mounted on said riding posts by means of apertures through which said posts pass, and means carried by the second binder member for adjustably locking the same to the posts at varying distances from the first member.

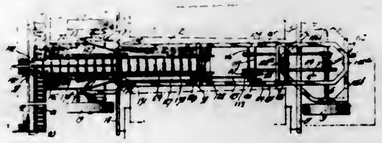
1,346,181. AUTOMATIC REGULATOR. HENRY R. DAVIES, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed May 13, 1918. Serial No. 234,284. 9 Claims. (Cl. 171—313.)

3. In a system of control for variable speed dynamo electric machines, the combination of an electric generator; power mains connected to said generator; translating devices including a storage battery connected across the mains; said generator having field poles, an armature, main brushes bearing on the armature, an auxiliary brush bearing on the armature, a shunt field winding connected to one of said main brushes and to the auxiliary brush, in which the voltage decreases as the speed increases; and means connected intermediate the auxiliary brush and the other main brush, automatically operative in response to the amount of current flowing therethrough to increase



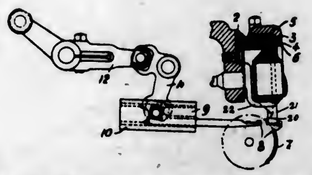
the gradient of normal decrease of shunt field voltage at the higher speeds.

1,346,182. HARVESTING-MACHINE. WILLIAM FRANCIS DE BRANDT, Melbourne, Victoria, Australia, assignor to The Fogarty Patent Interchangeable Harvester Corporation Limited, Perth, Western Australia, Australia, a Corporation of Western Australia. Original application filed June 13, 1918, Serial No. 239,711. Divided and this application filed Feb. 26, 1919. Serial No. 279,398. 3 Claims. (Cl. 56—129.)



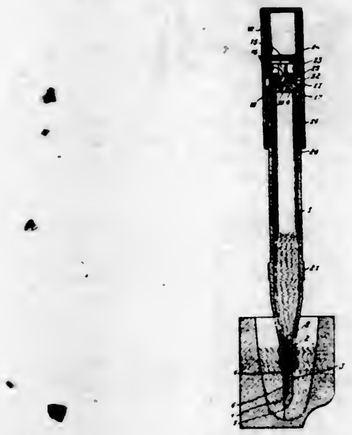
1. In a harvesting machine, the combination of a main frame; harvesting mechanism carried by the main frame; ground wheels for supporting the forward part of the main frame; a rear frame supporting the rear part of the main frame; ground wheels for the rear supporting frame; means for driving the harvester mechanism driven by the last named ground wheels; and means for connecting the rear supporting frame and the main frame, said means permitting the rear frame to pivot about a longitudinal horizontal axis relative to the main frame in accommodation to ground undulations.

1,346,183. STITCH-FORMING MECHANISM FOR SEWING-MACHINES. MARK THOMAS DENNE, Rushden, England. Original application filed Sept. 22, 1914, Serial No. 863,025. Divided and this application filed Sept. 30, 1918. Serial No. 256,211. 1 Claim. (Cl. 112—196.)



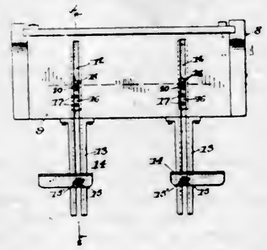
In a sewing machine, the combination with a shuttle raceway consisting of an inner fixed member having on its face an arcuate projection formed with a V-shaped ridge and an outer member having a flat face and capable of being adjusted toward and from said ridge, of a rotary shuttle provided with a hook and mounted in said raceway, said shuttle having an annular V-shaped groove on its rear face adjacent the periphery, which groove fits the V-shaped ridge of the raceway and said shuttle having on its front face a flat radial surface at its periphery which engages the flat face of the outer member of the raceway.

1,346,184. SELF-FILLING FOUNTAIN-PEN. THOMAS A. DICKINSON, Youngstown, Ohio. Filed Dec. 22, 1919. Serial No. 346,707. 1 Claim. (Cl. 120—47.)



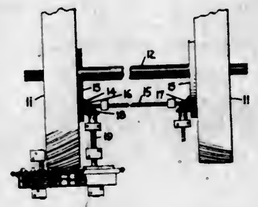
A self-filling fountain pen comprising a barrel portion having an aperture in its rear end and a threaded reduced neck extending beyond its rear end, said neck being provided with longitudinal grooves in its outer surface, a screw threaded cap fitting upon said neck and normally closing said grooves, the interior of said neck being provided with annular grooves, a valve carried by said cap and arranged to close the aperture in the end of the barrel, a resilient peripheral washer located around the barrel and an elongated cap arranged to slide over the rear end of the barrel and tightly fitting upon said washer.

1,346,185. GAGE FOR SHEET-METAL MACHINES. WILLIAM A. EGGERS, Milwaukee, Wis. Filed Feb. 28, 1919. Serial No. 279,824. 3 Claims. (Cl. 164—59.)



1. The combination with a shearing machine having a table portion provided with T-shaped grooved ways extending at right angles to the line of cut of the machine, of a stop guide therefor comprising a holding member of T-shape in cross section, means for adjustably mounting the holding member within one of the grooved ways and below the upper surface of the table portion, said holding member being adjustable toward and away from the line of cut, and a yielding gage stop member carried by the holding member and normally projecting above the upper surface of the table portion.

1,346,186. TRACTOR-SHOE-DIRT ELIMINATOR. EMIL ERIK, Ossining, N. Y., assignor, by direct and mesne assignments, of twenty per cent. to Elroy I. Quick, Westchester county, N. Y., and thirty per cent. to Alden W. Harvey, New York, N. Y. Filed Feb. 11, 1920. Serial No. 357,869. 7 Claims. (Cl. 280—158.)



6. In combination with the wheel having lugs thereon, a frame extending across the rear of the wheel, sprockets in said frame, a chain taking around said sprockets, means on said chain for cleaning the lugs, and means for driving said sprockets.

1,346,187. PROCESS OF PRODUCING CHROMIUM-CONTAINING ALLOYS. FRANK A. FAHRENWALD, Cleveland Heights, Ohio. Filed Aug. 25, 1919. Serial No. 319,757. 8 Claims. (Cl. 75—1.)

1. The method of reducing ferrous metal ores which contains the steps of mixing the ore with sufficient carbon to reduce substantially all the metallic constituents substantially without overplus heating such mixture for a protracted time to a temperature sufficiently high to reduce the metallic constituents and too low to reduce silicon, and afterward raising the temperature to a point sufficient to melt the reduced metal and to slag out the unreduced constituents.

1,346,188. FIREARM AND ALLOY FOR MAKING SAME. FRANK A. FAHRENWALD, Cleveland, Ohio. Filed Aug. 25, 1919. Serial No. 319,822. 26 Claims. (Cl. 42—76.)

1. A firearm barrel made from an alloy of one or more iron group metals combined with one or more chromium group metals.

1,346,189. FIREARM AND ALLOY FOR MAKING SAME. FRANK A. FAHRENWALD, Cleveland Heights, Ohio. Filed Oct. 15, 1919. Serial No. 330,943. 14 Claims. (Cl. 42—76.)

4. A firearm having parts made of a metal or alloy containing nickel and iron in the proportion of approximately 36 parts of nickel to 64 parts of iron.

1,346,190. FIREARM AND ALLOY FOR MAKING SAME. FRANK A. FAHRENWALD, Cleveland Heights, Ohio. Filed Dec. 15, 1919. Serial No. 345,081. 5 Claims. (Cl. 42—76.)

1. A firearm barrel made of an alloy containing copper alloyed with not less than about twenty-five per cent. of nickel.

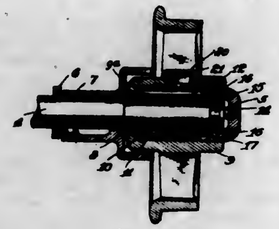
1,346,191. FIREARM AND ALLOY FOR MAKING SAME. FRANK A. FAHRENWALD, Cleveland Heights, Ohio. Filed Dec. 15, 1919. Serial No. 345,083. 2 Claims. (Cl. 42—76.)

1. A firearm barrel made of an alloy containing iron combined with at least about thirty per cent. of one or more other metals of the iron group.

1,346,192. COMPOSITION OF MATTER. CHARLES L. GEBAUER, Cleveland, Ohio. Original application filed Apr. 12, 1916, Serial No. 90,585. Divided and this application filed Aug. 5, 1916. Serial No. 118,313. 3 Claims. (Cl. 75—1.)

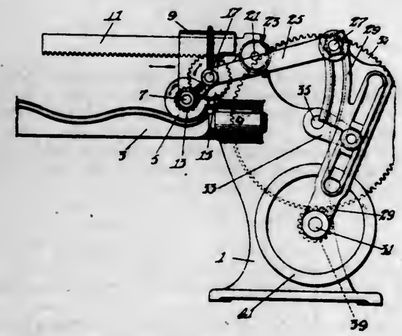
1. A composition of matter consisting of a rigid, non-homogeneous mixture of mutually insoluble metals one of which is a refractory element in a very fine state of subdivison and another of which is a noble metal wherein each particle of the more refractory metal is cast within a shell of the more fusible noble metal.

1,346,193. WHEEL-ATTACHING DEVICE FOR MINE-CARS AND OTHER PURPOSES. FREDERICK H. GIBBS, Brooklyn, N. Y., assignor to William H. Woodin, New York, N. Y. Filed July 26, 1918. Serial No. 246,849. 27 Claims. (Cl. 295—48.)



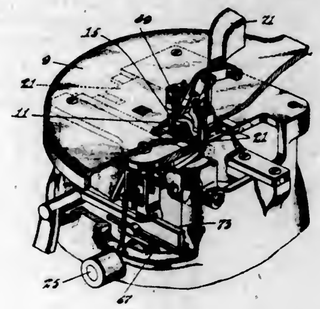
1. In combination, a wheel hub, an axle therein, bearing rollers in said wheel hub, a cap within the outer end of the hub adapted to hold said bearing rollers in position and means penetrating both hub and cap and engaging said axle to secure the hub, cap and axle in coöperative relation.

1,346,194. SEAM-RUBBING MACHINE. PERLEY R. GLASS, Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 13, 1916. Serial No. 90,871. 4 Claims. (Cl. 69—7.)



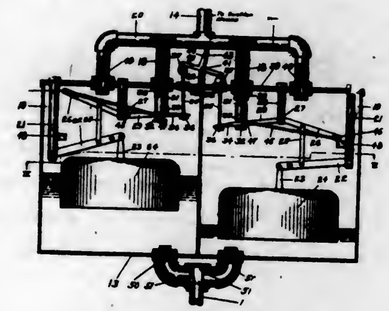
1. A machine of the class described, having, in combination, a horn for supporting a piece of stock, a roller arranged to travel over said horn, yielding means for holding said roller against said horn, means for reciprocating said roller bodily over said horn, means for rotating said roller, said means being arranged to cause a reversal of the direction of rotation of said roller at each reversal of direction of bodily movement thereof, and means for varying the location of the path of reciprocation of said roller.

1,346,195. FOLDING-MACHINE. PERLEY R. GLASS, Brookline, Mass., assignor to P. R. Glass Company, Boston, Mass., a Corporation of Massachusetts. Filed May 14, 1917. Serial No. 168,482. 10 Claims. (Cl. 12—54.)



1. A machine of the class described, having, in combination, a support for a piece of flexible material, a creaser, a folder, and means for moving the creaser and folder backward along the edge of the material and in contact therewith to form the fold.

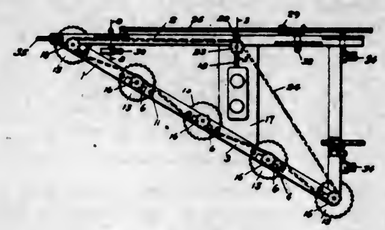
1,346,196. FUEL-FEED SYSTEM. CHARLES F. GREEN, Defiance, Ohio. Filed Nov. 14, 1918. Serial No. 262,531. 4 Claims. (Cl. 158—36.)



1. In a fuel feed system, the combination of a fuel supply source, an aspirator, a plurality of fuel holding chambers, each connected with said aspirator and said fuel supply source, and each having fuel outlet and air inlet passages, valves for the suction and air inlet passages of each of said chambers, means controlled by the rise and fall of the liquid in said tanks for alternately opening and closing said suction valves, and means connecting said air inlet valves whereby closure of the one will effect the opening of the other, and the opening of either will effect the closure of the other, said last mentioned means being actuated by said liquid controlled means.

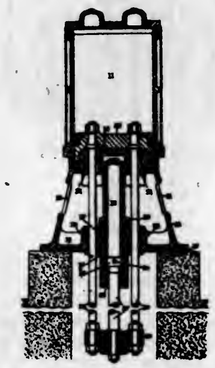
1,346,197. BRUSH-CUTTER. FRANK GROSS, Louisville, Colo. Filed Nov. 28, 1919. Serial No. 341,131. 3 Claims. (Cl. 56—53.)

3. A brush cutter comprising a frame consisting of a pair of beams, cutting disks rotatably associated with one of the beams, and a land engaging blade having its forward end pivotally connected to the other beam, means for swinging the blade on its pivot, said blade serving to



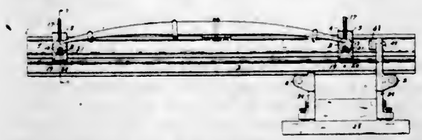
prevent lateral movement of the frame when in motion and the blade is engaged in the ground.

1,346,198. STEAM HYDRAULIC INTENSIFIER. THOMAS WILTON HAND, Sheffield, England, assignor to Davy Brothers Limited, Sheffield, England. Filed Aug. 20, 1917. Serial No. 187,271. 8 Claims. (Cl. 138—10.)



1. In a steam hydraulic intensifier, the combination of a foundation, a stool supported on the foundation, a steam cylinder supported on the stool, said stool comprising an integral open framework whereof the top member forms a bottom cover of the steam cylinder, a ram having one ram member secured within a part of the stool separated from the bottom cover of the steam cylinder, a piston fitted to work in the steam cylinder, a cross head secured to move with the other ram member, members disposed alongside of and parallel to the vertical axis of the intensifier and connected to said cross head and to said piston, said stool forming an open frame freely exposed to the atmosphere and separating the steam cylinder from the ram and means for conducting heat from the said members and away from the said ram.

1,346,199. METHOD AND APPARATUS FOR INSERTING EYE-BUSHINGS. WALTER M. HANSON, Kenosha, Wis. Filed Mar. 24, 1919. Serial No. 284,865. 20 Claims. (Cl. 22—203.)

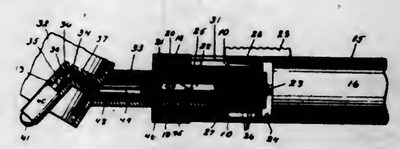


1. The method of positioning and anchoring eye bushings in metal eye pieces, consisting in inserting a bushing therein of smaller external diameter than the interior diameter of the eye piece, doweling the bushing and the eye piece in

fixed relation to each other, and filling the space between the bushing and the eye piece with molten metal under pressure sufficient to force the metal into crevices and into contact with irregularly contoured surfaces for anchorage purposes.

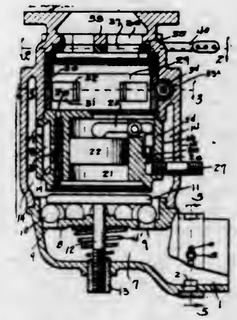
6. Apparatus for positioning and anchoring bushings in eye pieces, comprising the combination of a support provided with doweling members for the bushings and other doweling members for the eye pieces, means for closing the ends of cavities formed between the eye pieces and the bushings, and means for filling such cavities with molten metal.

1,346,200. DIAGNOSTIC INSTRUMENT. ALBERT S. HARRIS, New York, N. Y. Filed Jan. 24, 1920. Serial No. 353,780. 5 Claims. (Cl. 128—9.)



1. In a device of the character described comprising a cylindrical shell, a shank extending from one side thereof and adapted for connection with a handle, and a funnel-shaped member connected with the lower end of the shell; a cover for the upper end of said shell telescopically engageable therein and removable therefrom, said cover being rotatable with respect to the shell and provided with a pair of holes, a magnifying lens within one of said holes, a shutter pivoted upon the underside of the cover for covering and uncovering the other hole, and a handle connected with said shutter and disposed upon the top of the cover.

1,346,201. CARBURETER. FRANKLIN B. HAYS, Indianapolis, Ind. Filed Aug. 14, 1916. Serial No. 114,885. 2 Claims. (Cl. 261—122.)

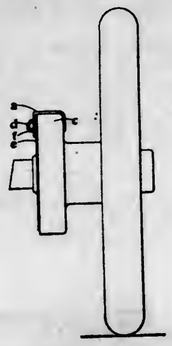


1. In a carbureter a float, a needle valve operated thereby, a float chamber, a plurality of chambers one of which contains wire gauze connected to said float chamber so as to receive liquid hydrocarbon fuel therefrom, means for passing air successively through said plurality of chambers, an auxiliary chamber above said float chamber communicating with said gauze containing chamber, and means for by-passing part of the air through said auxiliary chamber.

1,346,202. REPAIR OF THE AXLES OF MOTOR-VEHICLES. EDWARD HODGES, Eastleigh, near Southampton, England. Filed Oct. 21, 1918. Serial No. 259,129. 3 Claims. (Cl. 21—5.)

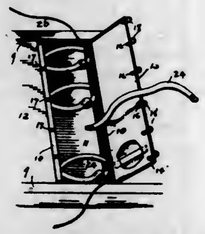
1. In motor cars having the brake drum detached from spokes, means for securing the flange end of the axle casing carrying the brake segments to the brake drum, com-

prising a U-shaped member adapted to contact with the outer face of the flange end of the axle casing aforesaid and



the opposite outer face of the brake drum, substantially as described.

1,346,203. ROOF-DECK FOR VEHICLES. MATTHEW R. HULL, Connersville, Ind., assignor to Rex Manufacturing Company, Connersville, Ind., a Corporation of Indiana. Filed Mar. 29, 1917. Serial No. 158,456. 4 Claims. (Cl. 296—140.)



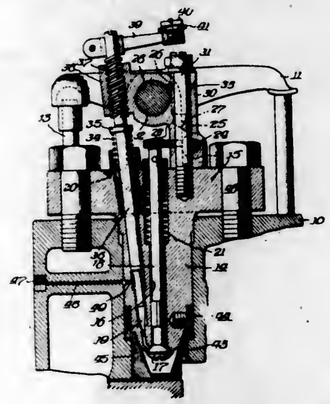
4. A vehicle top comprising a roof, a ceiling and transverse members separating and uniting the other two, said parts together forming compartments, a door in the ceiling affording access to a compartment, a cable adapted to be strung in a taut condition longitudinally of the top close to a side of the top, said cable entering said compartment and passing out through the door-opening thereof, a curtain strung on said cable and adapted to be folded with the cable into the compartment for storage and to be suspended in use from the taut cable, and straps removably secured at their ends, said straps being fastened in said compartment and adapted to hold the folded curtains.

1,346,204. VALVE FOR HYDROCARBON-ENGINES. RASMUS M. HVID, Chicago, Ill., assignor to R. M. Hvid Company, Chicago, Ill., a Corporation of Michigan. Filed May 24, 1918. Serial No. 236,319. 3 Claims. (Cl. 123—33.)



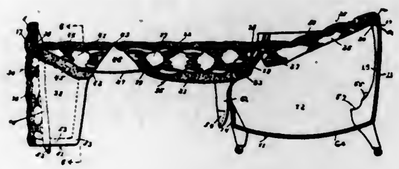
1. In an oil engine, the combination of a valve casing, a fuel cup on the lower end thereof, a puppet valve for controlling the time of admission of liquid fuel and a small quantity of air to said cup, said casing providing an inclined passage terminating at said puppet valve, a cap for closing the upper end of said passage, a governor-controlled needle valve contained in the passage, said valve being provided with an annular flange near its upper end, a spring engaging said flange, a shaft projecting into the casing and having a portion engaging said flange, and means for packing said shaft at the point of entrance thereof to the casing, substantially as described.

1,346,205. OIL-BURNING ENGINE. RASMUS M. HVID, Chicago, Ill. Filed June 9, 1919. Serial No. 302,679. 10 Claims. (Cl. 123—33.)



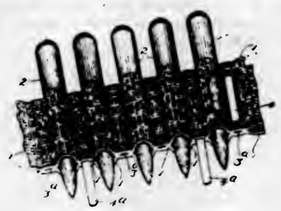
2. In a hydrocarbon engine, the combination with a cylinder having a main inlet valve, of a plug adapted to be seated within a recess in the cylinder head, a valve carried by the plug for controlling the admission of fuel, a rocker for actuating said main inlet valve, means operable by said rocker for actuating said fuel admission valve, and means for mounting said rocker on said plug whereby the plug and the main valve rocker may be removed and applied as a unit, substantially as described.

1,346,206. COMBINED ARMCHAIR AND BED. ERNST JANTSCH, Cincinnati, Ohio. Filed Oct. 11, 1917. Serial No. 195,960. 4 Claims. (Cl. 5—48.)



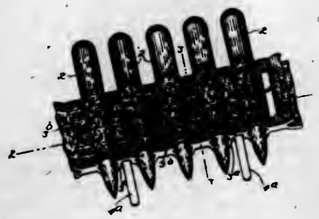
1. In a combined arm-chair and bed, the combination of a frame, a seat-section having pivot-connection therewith adjacent to the front end of said seat-section and provided with a seat-cushion at one face thereof and a mattress at the other face thereof, and a back section provided with a back cushion at one face thereof and a mattress at the other face thereof, said back section comprising forwardly extending sides as rigid portions of said back-section; the front ends of said forwardly extending sides normally located adjacent to said pivot-connection, floor-supports at the normal front ends of said sides, the normal lower end of said back section and the normal rear end of said seat-section hinged together at their mattress-faces, said seat-section and back section arranged to be swung for positioning said mattresses in end-to-end relation with the normally forward end of said seat-section supported on said pivot-connection and with said sides of said back-section extending downwardly and supported on said floor-supports, and a tension-member between said hinged ends of said sections at their faces opposite their said mattress-faces forming supporting means for said hinged ends.

1,346,207. MACHINE-GUN BELT AND THE LIKE. VICTOR H. JENNINGS, Worcester, Mass., assignor to Universal Patents Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed May 1, 1917. Serial No. 165,666. 6 Claims. (Cl. 89—35.)



1. A belt or carrier having transverse loops for the reception of cartridges or other articles, and formed between the successive loops with transversely extending pockets or tubes containing reinforcing or stiffener-strips and also formed in the weaving at opposite ends of said pockets or tubes to prevent endwise displacement of said strips.

1,346,208. MACHINE-GUN BELT AND THE LIKE. VICTOR H. JENNINGS, Worcester, Mass., assignor to Universal Patents Company, Woonsocket, R. I., a Corporation of Rhode Island. Original application filed May 1, 1917, Serial No. 165,666. Divided and this application filed Jan. 2, 1920. Serial No. 348,946. 1 Claim. (Cl. 89—35.)



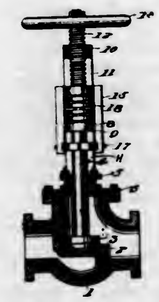
A belt or carrier having transverse loops for the reception of cartridges or other articles, having between the successive loops transversely extending pockets or tubes containing reinforcing or stiffener strips and closed at both ends thereof, and having slits or openings intermediate said ends to provide for the insertion of the reinforcing or stiffener strips.

1,346,209. GEAR-SHIFT LEVER. COLVIN L. JOHNSON, Chicago, Ill., assignor to Johnson Automobile Lock Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1919. Serial No. 281,646. 5 Claims. (Cl. 74—39.)



1. The combination with a gear shaft shift lever having a groove cut longitudinally therein, of a key permanently secured in position in the outer portion of said groove.

1,346,210. GLOBE-VALVE. WILLIE HARRY JOHNSON, Chicago, Ill. Filed June 13, 1919. Serial No. 303,881. 2 Claims. (Cl. 251—38.)

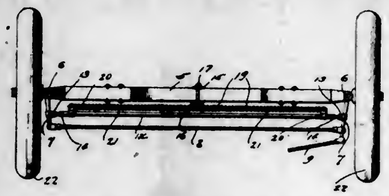


1. In combination with the valve casing having a valve seat, and the valve coöperating with the seat and having a stem extending out of the casing, of a screw, a yoke connected with the casing and having a nut through which the screw is threaded, said screw and stem having a lost motion connection for permitting them to move longitudinally with respect to each other within limits and for permitting a limited rotary movement with respect to each other, and a spring arranged between the screw and the stem and normally acting to press the valve to its seat.

1,346,211. STEERING-BALANCE. WILLIAM H. JOHNSON, Perry, Okla. Filed Nov. 26, 1919. Serial No. 340,758. 1 Claim. (Cl. 280—94.)

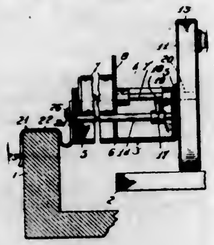
A steering balance for motor vehicles comprising a guide bracket for attachment to the mid-length of the front axle and having an outstanding leaf with upper and lower openings, a pair of clips for attachment to the arms of the steering knuckles, a rod pivotally connecting said clips, means for adjusting the length of this rod to adapt it to the motor vehicle, clips mounted on the rod near its

ends, rods pivoted in these clips and projecting inward and lapping each other, their inner ends being mounted



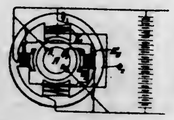
through respective holes in said leaf, and expansive springs coiled on these rods between said leaf and the last-named clips.

1,346,212. RAZOR-STROPPING DEVICE. EDWIN JUELSON, Chicago, Ill. Filed June 15, 1918. Serial No. 240,120. 1 Claim. (Cl. 51—16.)



In a stropping device, a stropping mechanism, a sheet metal frame for the same, having an upright wall near one end of the mechanism, a plate having spaced upwardly projecting portions adjustably secured to the end portion of the frame and curved intermediate their ends to provide resiliency, said plate being provided with spaced downwardly projecting lugs, and with a separate downwardly projecting portion whereby said plate may be placed on the upper edge of an upright wall and engage the same, and a friction disk mounted on said casing for driving the stropping mechanism.

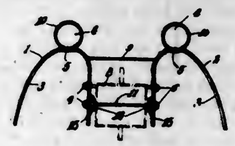
1,346,213. CONTINUOUS-CURRENT DYNAMO. FRITZ KESSELRING, Neuhausen, Switzerland. Filed July 17, 1916. Serial No. 109,800. 3 Claims. (Cl. 171—225.)



1. In a continuous current dynamo, main and auxiliary field poles and energizing coils therefor, an armature having a main winding arranged in the magnetic fields of the main and auxiliary poles and included in circuit with said main field coils, said armature also having an auxiliary winding arranged solely in the magnetic field of the main field poles and included in series with the auxiliary field coils across the main armature winding, and a storage battery in parallel with the main field coils.

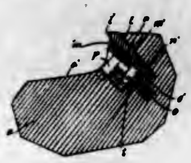
1,346,214. AEROPLANE SAFETY DEVICE. LOUIS KOVACS, Throop, Pa. Filed Feb. 28, 1920. Serial No. 361,991. 6 Claims. (Cl. 244—21.)

1. In combination with an aeroplane, a pair of collapsible wings, one arranged on each side of said aeroplane, each of said wings being adapted for extension in the direction of the length of said aeroplane, a series of spring motors, gears on said motors, a shaft operatively con-



nected to said wings, a gear on said shaft operatively engaging said motor gears, and a control lever for causing said shaft to rotate for extending said wings.

1,346,215. KNIFE-SECURING MEANS FOR CUTTER-HEADS. GEORGE L. KRABER, Portland, Oreg., assignor, by mesne assignments, to The Turbine Air Tool Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Apr. 27, 1918, Serial No. 229,138. Divided and this application filed Oct. 7, 1918, Serial No. 257,255. Renewed Dec. 6, 1919. Serial No. 343,142. 6 Claims. (Cl. 144—230.)



1. The combination of a cutter head provided with a slot for receiving a knife-blade, a knife-blade adapted for insertion in such slot, means directly coöperating with said blade to secure the same in place, a wedge-plate adapted for insertion in such slot in contact with said blade, and means for securing said plate in place, said plate being adapted to prevent removal of said first-named securing means.

1,346,216. AUTOMOBILE-RADIATOR. VERNON E. LA MASTER, Beardstown, Ill., assignor of one-half to Thomas J. Smedley, Frederick, Ill. Filed Oct. 16, 1917. Serial No. 196,929. 2 Claims. (Cl. 257—125.)

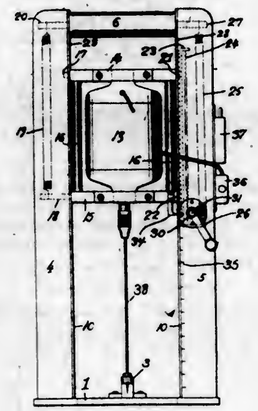


1. The combination with an automobile radiator; of a subjacent casing adapted to contain a heating unit, a main conduit leading from a point above said unit vertically through the center of the radiator and open at its top, and other conduits branched from the first and extending in tortuous courses upward through the radiator near its sides and top and united near the latter with said main conduit, as and for the purpose described.

1,346,217. PERFORATING-MACHINE. FREDERICK M. LASERSON, New York, N. Y. Filed Apr. 12, 1919. Serial No. 289,661. 4 Claims. (Cl. 77—6.)

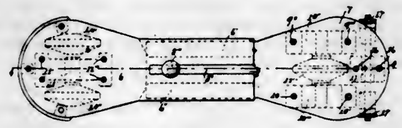
1. The combination of a circular base having a central opening, hollow upright frame members supported on said

base, a handle for joining the upper ends of said frame members, a yoke suspended from within the latter, guiding means on said frame members for the said yoke, a motor



supported in the latter, a needle carried by said motor, a needle guide secured to the said base and means for raising and lowering the yoke and motor.

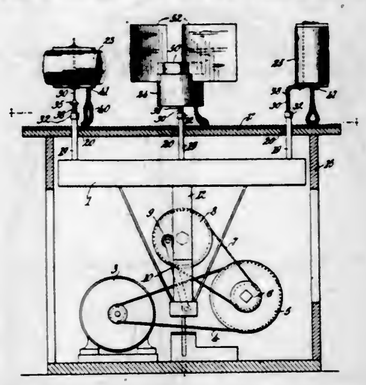
1,346,218. ROLLER-SKATE. ELMER T. LEE, Waterbury, Conn. Filed Jan. 7, 1920. Serial No. 349,924. 2 Claims. (Cl. 46—51.)



1. A roller skate comprising a supporting body consisting of a relatively flat heel-plate having guide-ways at the opposite sides of the advance portion thereof; a sole-plate having a relatively flat shank fitting and adjustably secured within said guideways; sheet-metal hangers depending, a pair thereof duly spaced from said sole-plate and one thereof from said heel-plate; an axle fixed in said pair of hangers and having a bearing-roller rotatable thereon between said pair of hangers; an axle fixed in the hanger depending from said heel-plate and having a pair of bearing-rollers rotatable thereon, at the opposite sides of the hanger supporting the same; and means for attaching said skate to the foot-covering of the user, each of said hangers affording an axle-sleeve for the reception of the axle provided for coöperaton therewith.

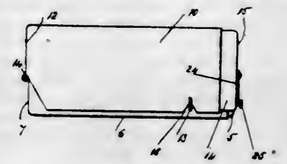
1,346,219. ADVERTISING OR AMUSEMENT DEVICE. CLINTON H. LEGGETT, New York, N. Y. Filed Aug. 4, 1919. Serial No. 315,069. 12 Claims. (Cl. 46—40.)

1. An advertising or amusement device comprising a vibratory frame, a platform, an article to be actuated by said frame, and a connection between said frame and article, said connection comprising a socket piece and a rod, and a resilient stop through which said rod bears



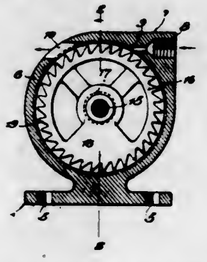
upon the socket piece, one part of said connection being carried by said vibratory frame.

1,346,220. LUNCH-BOX. FOREST LEWIS, Charleston, W. Va. Filed Mar. 24, 1920. Serial No. 368,337. 1 Claim. (Cl. 220—8.)



A lunch box, comprising a bottom portion and a top portion hinged together at one end in line with the middle portions of their sides, said box portions being of unequal width and one portion being adapted to slide over and partially inclose the other, each said portion being formed of relatively slidable inner and outer sections which enable the length of the box to be varied, the outer box portion having guides provided with notches at the edges of the sides of the outer section, and the edges of its inner section being slidable in the said guides and being each provided with a series of notches which register with the aforesaid notches, and locking pins which project laterally from the sides of the inner box portion and engage with the said notches of its top portion when the box is closed.

1,346,221. VIBRATOR. HUGO F. LIEDTKE, Hagerstown, Md. Filed Nov. 29, 1919. Serial No. 341,501. 6 Claims. (Cl. 259—72.)



1. A vibrator comprising a fixed shaft, an unbalanced wheel journaled on said shaft and having peripheral pro-

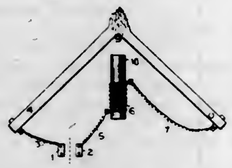
jections, and a nozzle arranged to discharge fluid under pressure against said projections whereby to rotate said wheel.

1,346,222. PLASTIC PILE. JOSEPH LINDEMAN, New York, N. Y. Filed Apr. 30, 1917. Serial No. 165,451. 1 Claim. (Cl. 61—56.)



A pile including spaced end elements, circular series of eyes on the inner faces thereof, a plurality of rings arranged in spaced relation to each other between the end elements, each ring being formed with eyes arranged in a series therearound, and a reinforcing strand rove through the eyes on the end elements and rings to provide a shell of longitudinal stretches, and led from each end eye across to an eye substantially opposite at the other end to form diagonal stretches so disposed as to cross each other substantially at the midlength of the pile; and a plastic filling inclosing all stretches and rings.

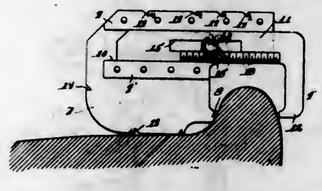
1,346,223. ELECTRIC-ARC FURNACE. LAMBERTO LOMBARDI, Rome, Italy. Filed Jan. 27, 1919. Serial No. 273,339. 4 Claims. (Cl. 204—64.)



1. The combination of the wall of an electric furnace with pairs of converging electrodes extending inward through said wall to form an electric arc between the tips of each pair, of electro-magnets having longitudinally movable cores also extending inward through said wall, one core being presented to each arc on the outer side, and electric circuit connections arranged to simultaneously energize the said electrodes and magnets, the said arcs being arranged to coöperate in heating any article between them.

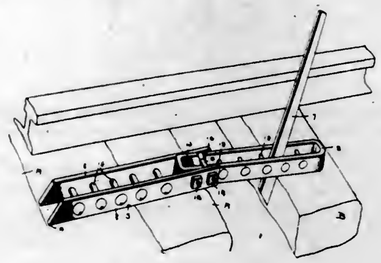
1,346,224. WHEEL-DEFECT AND COUPLING-LIMIT GAGE. ANDREW MCCORMICK, Herculaneum, Mo. Filed Mar. 12, 1918. Serial No. 221,916. 1 Claim. (Cl. 33—143.)

A device of the class described comprising a body part having a relatively stationary jaw provided thereon at one end; spaced parallel plates mounted on said body, having a channel between them; a shank slidably mounted in said channel and adapted to project from said end of said body; a jaw on said shank for coöperation with said relatively stationary jaw; a bolt passing through said shank and body; a coöperating nut threaded upon said bolt, and a bow spring engaging with said bolt and body for yieldingly holding said relatively movable jaw in positions of



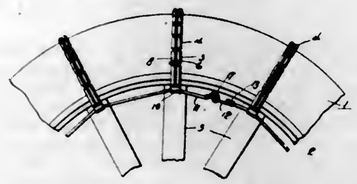
adjustment, said shank being longitudinally slotted to accommodate said bolt, the portion of said bolt registering with said slot being square and fitting snugly in said slot, whereby said bolt is held against rotary movement, substantially as described.

1,346,225. TIE-SPACER. PHILLIP MCGUIRE, Staples, Minn. Filed Oct. 10, 1919. Serial No. 329,749. 3 Claims. (Cl. 254—44.)



1. A tie spacer comprising a pair of engaging members movable into angular relation whereby one of said members may be engaged with a tie, and a plurality of fulcrum members carried by one of the tie engaging members.

1,346,226. ANTISKID-CHAIN. MATH MAGER, Garfield, Minn. Filed May 22, 1919. Serial No. 298,902. 2 Claims. (Cl. 152—14.)

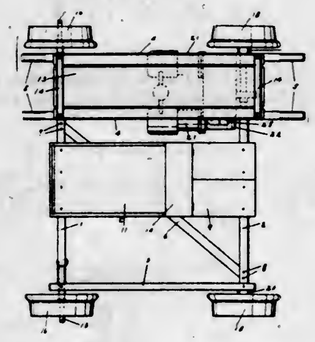


1. An anti-skid chain device comprising a pair of flexible retaining members, anti-skid members extended between the retaining members and attached thereto, and comprising shrinkable cords folded upon themselves to provide parallel strands, and metallic sleeves arranged in pairs and fixed to the said parallel strands.

1,346,227. RAILWAY MOTOR-CAR. CHARLES G. MAHANA, EARL D. GLIDDEN, and MILTON P. LAURENT, Three Rivers, Mich, assignors to Fairbanks Morse & Company, Chicago, Ill., a Corporation. Filed Apr. 26, 1920. Serial No. 376,636. 13 Claims. (Cl. 105—138.)

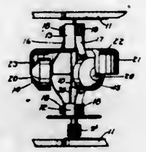
1. In a railway motor car, the combination of a frame comprising front and rear cross members, a longitudinal

side member connecting said cross members at one side, a pair of spaced longitudinal sills connecting said cross members at the other side, spindles mounted on said front cross member, hangers provided with axle bearings mounted at the ends of the rear cross members, a live axle mounted in said hanger bearings, wheels on said axle and spindles disposed at the outer side of said longitudinal



frame members, an engine supporting saddle secured on the under side of said sills, a pair of internal combustion engines mounted horizontally on said saddle and provided with crank cases having opposed inwardly projecting crank shaft bearings, a supporting bearing for said axle mounted on the rear end of the crank case of the inner engine, a crank shaft common to both engines, and meshing gears on said crank shaft and axle.

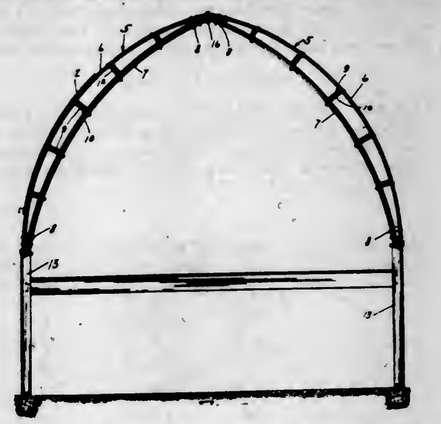
1,346,228. MEANS FOR PROTECTING GOVERNORS. RAY H. MANSON, Rochester, N. Y., assignor to The General Phonograph Manufacturing Company, Elyria, Ohio, a Corporation of Ohio. Filed July 31, 1916. Serial No. 112,218. 1 Claim. (Cl. 264—18.)



In a device of the class described, a rotatable shaft, a bell-shaped member mounted fixedly on said shaft and having openings in the top thereof, a block adapted to slide on said shaft, leaf springs secured to said member and said block, weights secured to the intermediate portion of said springs, whereby on excessive rotation the block slides on the shaft and the weights engage said member.

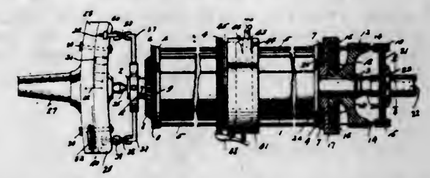
1,346,229. TRUSSED ROOF-ARCH. ADELBERT MECHAM, Edinburg, N. D. Filed Apr. 1, 1920. Serial No. 370,401. 6 Claims. (Cl. 108—1.)

1. A roof structure comprising a plurality of laterally spaced arched trusses, each of which includes upper and lower members connected at their ends, and a plurality of laterally spaced purlins interposed between said upper



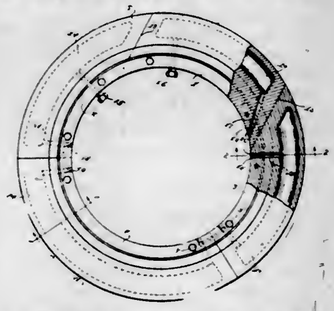
and lower members and connecting adjacent arched trusses, said purlins being progressively higher from the ends of the arches to the centers thereof.

1,346,230. BORING-BAR. LEOPOLDO MEDIAVILLA and JOHN L. CANALES, New York, N. Y. Filed May 22, 1918. Serial No. 236,005. 6 Claims. (Cl. 77—57.)



1. In combination, a mandrel adapted to be angularly adjustable, a cutter head rotatable with the mandrel and adjustable thereon, a feed screw mounted on the mandrel and in engagement with the cutter head, a fixed shaft, a gear element mounted on the fixed shaft and having a universal joint connection therewith, and means between the gear element and the feed screw for imparting rotary movement to the latter as the mandrel is rotated.

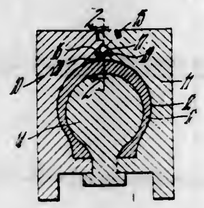
1,346,231. TIRE-CORE. THOMAS MIDGLEY, Sr., Columbus, and THOMAS MIDGLEY, Jr., Dayton, Ohio, assignors to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1919. Serial No. 315,113. 4 Claims. (Cl. 18—45.)



2. In a collapsible core, a plurality of core sections shaped to constitute an annulus when in assembled rela-

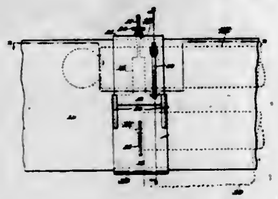
tion, the interiors of said sections being of hollow form, clamping means for maintaining said sections in concentrically assembled relation, and means whereby a heating medium may be circulated through at least certain of said sections and through a part of said clamping means.

1,346,232. OVERFLOW-CAVITY FOR MOLDS. THOMAS MIDGLEY, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 11, 1919. Serial No. 316,666. 13 Claims. (Cl. 18—17.)



1. A compression mold for tire casings comprising sections adapted to be moved toward each other, and a restricted overflow opening between the sections presenting a substantially constant area during the compressing movement of the mold.

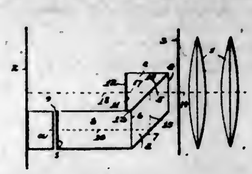
1,346,233. CURTAIN-POLE AND WINDOW-SHADE HOLDER. EWDOKIJA MIKOLYN, Charleroi, Pa. Filed Oct. 23, 1918. Serial No. 259,396. 1 Claim. (Cl. 156—24.)



A bracket of the class described comprising vertically disposed inner and outer overlapping plates, outwardly-turned guide flanges formed on the sides of the inner plate slidingly securing the plates together, the outer ends of the plates being provided with inwardly-turned portions and securing members projecting from the inwardly-turned portions adapted to engage the edges of the casing, the inner plate being in flat contact with the casing to guard against lateral tilting of the bracket, a partly flat and partly screw-threaded shank on the inner plate extending through the inwardly-turned portion of the outer plate and disposed in flat contact with the casing, a nut on the screw-threaded part of the shank adapted to be screwed against the outer face of said last-named inwardly-turned portion, and a shade or curtain supporting member carried by one of said plates.

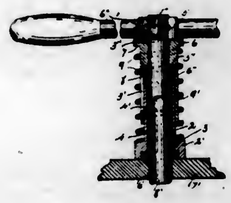
1,346,234. MULTICOLORED APPARATUS. HENRY N. MILLER, Chicago, Ill. Filed Sept. 15, 1917. Serial No. 191,571. 1 Claim. (Cl. 88—16.4.)

In an apparatus of the character described, the combination with a lens, of a movable shutter and movable films, a prism mounted in inclined position and having a mirrored opaque surface on its lower face and a semi-opaque surface on its upper face, a triangular prism having its lower face engaging the semi-opaque face of the first prism and provided with a colored filter on its vertical side, a third prism fitting against the first prism



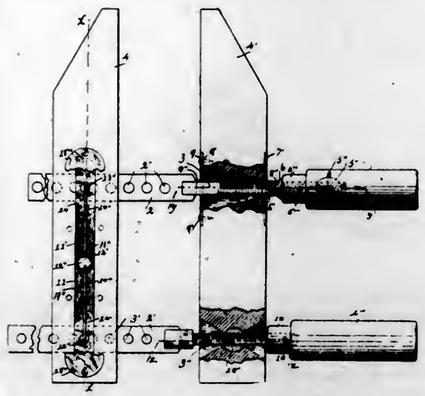
and provided at the side remote therefrom with a colored filter and a fourth prism adjacent the film and spaced slightly from the second filter.

1,346,235. TAP-GUIDE. HENRY MÜLLER, Waterbury, Conn. Filed July 18, 1919. Serial No. 311,817. 5 Claims. (Cl. 10—147.)



1. A tap guide comprising telescopically conjoined sections constituting a body for the reception of a tap; means for limiting the extent of distending relative adjustability of said sections; and means for holding said sections normally under an elastic stress against compressive relative adjustment thereof.

1,346,236. JOINER'S CLAMP. HENRY MÜLLER, Waterbury, Conn. Filed Nov. 8, 1919. Serial No. 336,743. 2 Claims. (Cl. 144—301.)



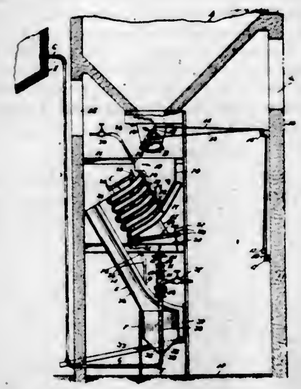
1. A joiner's clamp comprising a pair of operating-bars arranged in spaced parallel relation, one thereof having a threaded shank firmly conjoined therewith; a pair of clamping jaws mounted on said operating-bars, one for sliding adjustments thereabout, and the other having a link hinged thereto at its outer face, and being freely intersected, conjunctively with such link, by the shank aforenamed; a hand-piece swiveled to said link and affording a fixed nut having a threaded engagement with said shank, whereby direct and reverse adjustments of the last-named jaw may be effected; and means for temporarily locking the first-named jaw to said operating-bars, at variant positions therealong.

1,346,237. PISTON-RING. JOHN T. MURRAY, Danielsville, Ga. Filed Mar. 17, 1919. Serial No. 283,199. 2 Claims. (Cl. 74—109.)



1. A piston ring having its ends reduced in width to provide superposed overlapping end portions, the extremity of each end portion being reduced in thickness to provide a tongue, the body of the ring being recessed on its opposite face at the junction of the body with the end portions, each recess receiving the tongue of the opposite end portion, the tongue being wider than the end portion from which it extends, and said end portion having a longitudinally extending flange forming a continuation of one edge of the tongue, the inner face of each end portion being longitudinally recessed to receive said flange.

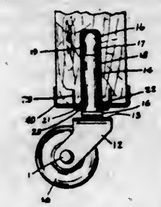
1,346,238. SAND-DRYING PLANT. HENRY W. NAGEL, Chicago, Ill., assignor of one-half to August C. Ronda. Filed Apr. 23, 1919. Serial No. 292,107. 5 Claims. (Cl. 34—33.)



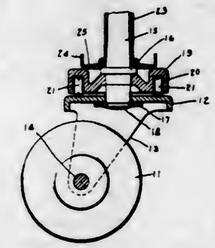
1. A sand plant comprising a sand bin having an opening through which the sand is adapted to flow by gravity, a gate for controlling said opening, spaced heating elements between and over which the sand is adapted to pass after leaving said bin, each of said elements having portions having different inclinations, said inclinations being steepest where the sand first flows and is wettest, and less steep at the points to which it passes after being partially dried, an inclined screen for shifting the sand as it leaves said heating elements, and a chute and hopper for receiving the shifted sand.

1,346,239. SOCKET FOR CASTERS. WILLIAM H. NOELTING, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed July 28, 1919. Serial No. 313,836. 2 Claims. (Cl. 16—4.)

1. A tubular socket for the stem of a caster for the wooden leg of a cabinet or the like, a ferrule to cover the end of said leg, and an annular plate surrounding the lower part of said socket and secured thereto and provided with long upwardly extending prongs which are adapted to extend through said ferrule and penetrate the leg and secure thereto said ferrule and socket.

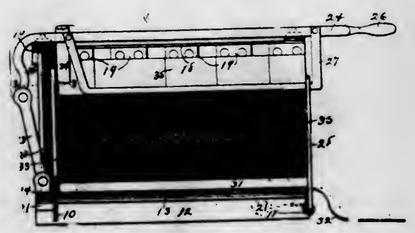


1,346,240. CASTER. WILLIAM H. NOELTING, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Feb. 14, 1920. Serial No. 358,698. 1 Claim. (Cl. 16—73.



A caster including in combination a caster roller, a roller support rotatably mounting said roller and having a yoke portion, a stem rotatably mounted upon said yoke portion, a race including a roller channel secured to said stem in spaced relation with said yoke portion, rollers in said race rollable upon said yoke portion and the bed of said channel, and an apron adjacent and in spaced relation with said yoke portion and said channel to protect said rollers and insure frictionless operation.

1,346,241. SHINGLE-REBALING MACHINE. JOHN NORRIS and JESSE I. PEARSALL, Mason City, Iowa. Filed Aug. 26, 1918. Serial No. 251,989. 2 Claims. (Cl. 100—32.)

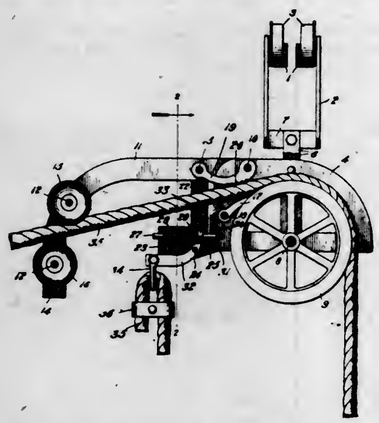


1. A re-baling machine consisting of a bottom, one side and parallel end portions suitably connected, a link rising from said bottom outside the side portion, a lever formed with a goose-neck at one end pivoted to said link, a yoke fixed to and extending longitudinally of said lever and adapted to depend on the opposite side of the side portion from the link, and a hook adapted to connect the bottom and yoke detachably.

2. A re-baling machine consisting of a bottom, one side and parallel end portions suitably connected, a link rising

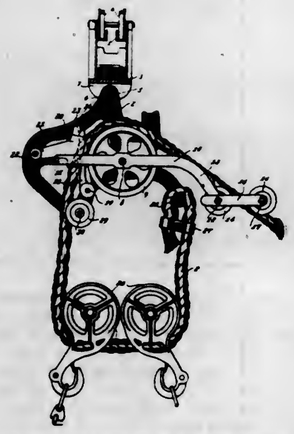
from said bottom outside the side portion, a lever formed with a goose-neck at one end pivoted to said link, a yoke fixed to said lever and adapted to depend on the opposite side of the side portion from the link, and a hook adapted to connect the bottom and yoke detachably, and a pivoted hook adapted for securing part of a bundle-retaining element to said side portion temporarily.

1,346,242. HAY-CARRIER. HENRY S. NUNAMAKER, Canton, Ohio, assignor to The V. L. Ney Hay Tool Company, Canton, Ohio, a Corporation of Ohio. Filed Feb. 28, 1919. Serial No. 279,719. 4 Claims. (Cl. 188—64.)



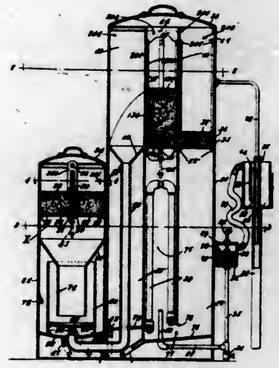
1. A hay carrier provided with a main sheave, a locking lever pivotally connected to said carrier, a rope grip connected to said locking lever, a spring pressed bolt operatively connected to said locking lever for holding said locking lever in the raised position, means for withdrawing said bolt to allow the locking lever to be moved downward and an elevating rope connected to said bolt withdrawing means, and passing over the sheave and forming a fall, said elevating rope passing between the sheave and the rope grip and engaging said locking lever.

1,346,243. HAY-CARRIER. HENRY S. NUNAMAKER, Canton, Ohio, assignor to The V. L. Ney Hay Tool Company, Canton, Ohio, a Corporation of Ohio. Filed Dec. 5, 1919. Serial No. 342,733. 4 Claims. (Cl. 212—114.)



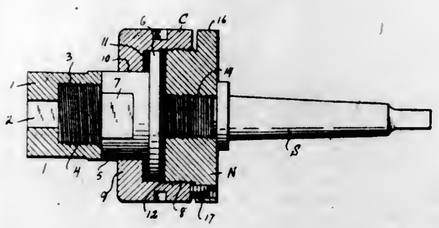
1. A hay carrier provided with a main sheave, a locking lever connected to said carrier, a rope grip pivoted within the carrier and resting upon the locking lever, an elevating rope connected to the carrier and passing over the sheave and forming a fall, the rope grip arranged to normally engage said elevating rope and means for tilting the locking lever to swing the rope grip out of engagement with the elevating rope.

1,346,244. OIL-FILTER. JOHN H. PACKER, Liberty, Mo. Filed May 7, 1919. Serial No. 295,333. 3 Claims. (Cl. 210—43.)



1. A device of the class described, comprising first and second compartments communicating at their lower ends; filters in said compartments and dividing the same into upper and lower chambers; an outlet for the upper chamber of the second compartment; means for heating the lower chamber of the second compartment; and means for maintaining a column of water at an adjusted head in communication with the lower chamber of the second compartment, thereby to govern the height of the water in the lower chambers when an increment of water is added thereto with the oil which is to be filtered.

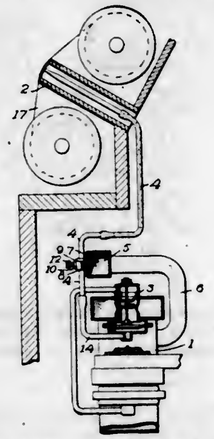
1,346,245. CHUCK. FREDRICK C. PALOSKY, Pontiac, Mich., assignor of one-half to Simon Zimmermann, Pontiac, Mich. Filed July 11, 1919. Serial No. 310,243. 3 Claims. (Cl. 64—106.)



1. A device of the character described comprising a cap, a head in swivel engagement therewith, a socket member carried by the head, a nut engaged within the cap for frictional action upon the head, a shank engaged with the nut, and regulating members threaded through the nut for contact with the cap.

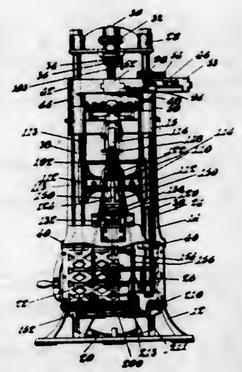
1,346,246. PNEUMATIC PIANO-PLAYYER. CLAUS E. PETERSON, Worcester, Mass. Filed May 28, 1919. Serial No. 300,283. 3 Claims. (Cl. 84—58.)

1. In an apparatus of the class described, the combination with a tracker bar and a pneumatic action, of a pipe leading from the tracker bar to the pneumatic action and having an opening therein, a cap inclosing said opening,



a tube inclosing a vacuum chamber and having an opening communicating with said cap, and means for attaching said cap to the side of said tube.

1,346,247. MACHINE FOR OPERATING ON HEELS. JOSEPH H. POPE, Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 14, 1916. Serial No. 131,332. 27 Claims. (Cl. 1—36.)

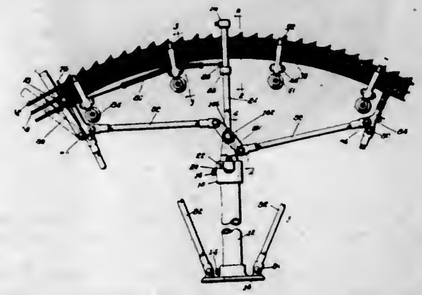


1. A machine for attaching heels, having, in combination, a nailing die movable between nail loading and heel attaching positions, heel and top lift holders associated with the die and constructed and arranged to position alternatively a heel or a top lift in register with the die, and means for automatically moving said holders alternately into register with the die in proper time relation to the movements of the latter.

3. A machine for operating on heels, having, in combination, a frame having a die plate and shoe support relatively movable to subject the work to pressure, a tubular tension member connected to either end of the die plate, operating rods arranged to reciprocate within the tubular members, and a gang of tools carried thereby.

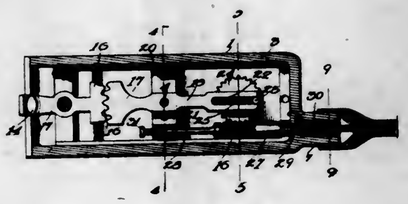
8. A machine for attaching heels, having, in combination, a pair of die blocks, a supporting member for the die blocks rotatable to present them successively in nail loading and heel attaching positions, a gang of tools, and stationary means for supporting at its outer side each die block brought into line with the tools.

1,346,248. MACHINE FOR USE IN HEEL MANUFACTURE. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 10, 1918. Serial No. 257,603. 13 Claims. (Cl. 12—42.)



1. A machine for use in heel manufacture, comprising an elongated holder constructed and arranged to contain a column of heel blanks face to face, and means for varying the longitudinal contour of said holder.

1,346,249. CLIPPER. JAMES W. PRICE, Henryetta, Okla., assignor of one-half to Hettie S. Miller, Henryetta, Okla., and one-eighth to G. W. Webster and one-eighth to S. S. Webster, Tulsa, Okla. Filed Oct. 1, 1919. Serial No. 327,665. 3 Claims. (Cl. 30—1.)

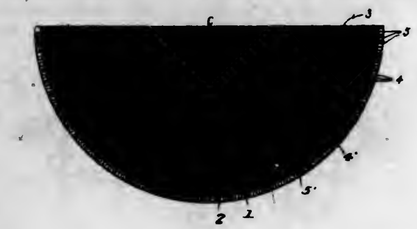


2. In clippers, a casing consisting of two portions extending at an obtuse angle with respect to each other and open at the convex side, a plate carrying a series of fixed blades detachably connected with the casing at the end of one of the said portions and arranged with the blades extending beyond the said end of the casing, a cover plate shaped to fit the open side of the casing, said casing being rabbeted to receive the edges of the cover plate and said plate extending beneath the blade carrying plate, means for detachably connecting the cover plate and the blade carrying plate to the casing, a series of movable blades coöperating with the fixed blades and operating mechanism for the blades held within the casing.

1,346,250. MATHEMATICAL INSTRUMENT. JOHN PURING, New York, N. Y. Filed May 10, 1916. Serial No. 96,548. 3 Claims. (Cl. 33—1.)

1. As an article of manufacture a mathematical instrument comprising the combination of a rule and a protractor, said instrument being adapted to use in triangulation, the protractor having a series of radii extending from the center outward and indicating degrees, a series of arcs equally spaced from each other dividing said radii into units and a second series of arcs arranged between each pair of the first mentioned arcs and dividing said radii into subdivisions, the known quantities of the triangle being adapted to be plotted on said protractor and the triangle

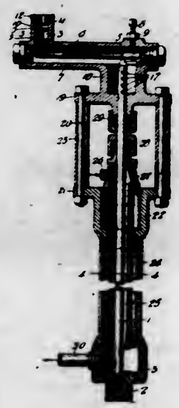
completed, the said rule being provided with units and subdivisions equal in size to the units and subdivisions of the protractor to measure the lengths of the unknown sides of the triangle by application thereto.



2. A combination as described in claim 1 wherein the length of said rule is equal to the diameter of the protractor.

3. A combination as described in claim 1 wherein one series of radii is provided to divide the protractor into units of a multiple of degrees, and a second set of radii so provided for dividing one of said units into smaller divisions.

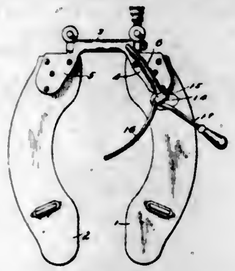
1,346,251. WATER-HEATER. DE FOREST L. RATHBONE, Jacksonville, Fla. Filed Jan. 25, 1919. Serial No. 273,206. 5 Claims. (Cl. 257—2.)



1. An automatic water heater, comprising a hot water outlet head, heater structure supported on said head and including a housing at the top with a valve tube, a heater tube carried by the supporting head with a cold water inlet at one end, a steam tube anchored in the head and passing through the heater tube to the housing at the top, said steam tube terminating in a closure providing a knife edge and having a series of steam openings; a valve bar fulcrumed on the knife edge, adjusting means bearing on one end of the bar, and a steam valve working in the valve tube and bearing on the other end of the bar, to control a steam inlet by the longitudinal expansive movement of the steam tube.

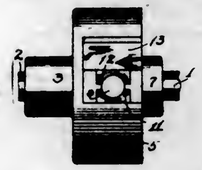
1,346,252. COMBINATION CLOSET-SEAT AND BIDET. DE FOREST LISLE RATHBONE, Jacksonville, Fla. Filed Feb. 9, 1920. Serial No. 357,387. 3 Claims. (Cl. 4—25.)

1. In combination, a seat for the closet bowl consisting of separated sections connected at the hinged end by a hollow bar, said bar having a water connection at one end and having an extension extending along the under side of one of the said portions, said extension having a valve casing at the end remote from the bar and a valve plug in the casing, said valve plug having a handle and a



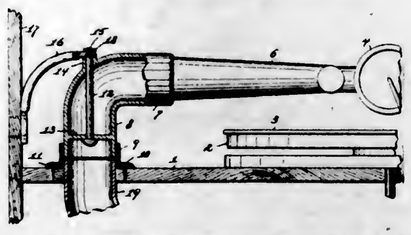
discharge tube so arranged that when the handle is swung in the proper direction the discharge tube will be moved with its free end in position on the said section for use.

1,346,253. UNIVERSAL COUPLING. GEORGE T. RAYFIELD, Chicago, Ill. Filed Sept. 20, 1917. Serial No. 192,334. 7 Claims. (Cl. 64—103.)



1. A coupling comprising a pair of coupling members, bearings slidably engaging one of the coupling members, the other coupling member having pivotal engagement with the first coupling member and means for holding each member engaged with the bearings under tension.

1,346,254. TONE-ARM FOR TALKING-MACHINES. THOMAS H. REED, Newark, N. J. Filed Sept. 14, 1918. Serial No. 254,033. 2 Claims. (Cl. 274—23.)

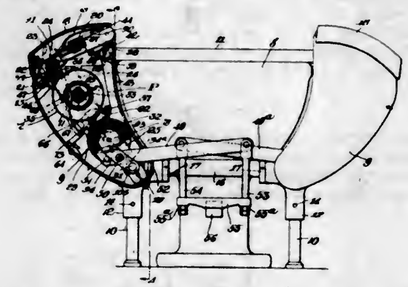


1. In a talking machine, the combination with a bracket, a vertically disposed stud secured to said bracket and a tubular tone arm provided with a vertically disposed portion having alined bearngs for the reception of said stud and upon which stud the tone arm is suspended to swing in a fixed plane.

1,346,255. SANITARY WATER-CLOSET. WARREN C. REES, Somerville, Mass., assignor to Aseptic Service Company, Boston, Mass., a Corporation of Maine. Filed Oct. 22, 1917. Serial No. 197,758. 29 Claims. (Cl. 4—18.)

1. The combination with a water closet bowl of a seat, a swinging frame carrying said seat movable to project the same over and withdraw it from said bowl substantially

in an arc about the axis of said frame, and a housing beside said bowl within which the seat is inclosed when thus withdrawn.



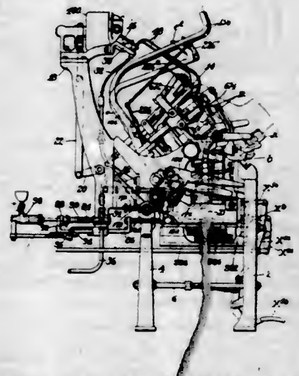
2. The combination with a water closet bowl of a swinging frame mounted beside the same adapted to swing toward and away from the same, a seat carried by said frame movable thereby substantially in an arc about the axis of said frame, over and aside from said bowl, a covering strip passing over said seat, means for causing the seat when projected to draw a fresh portion of said strip over its surface, and means for taking up that portion of the strip which was previously on the surface of the seat when the seat is withdrawn.

3. The combination with a water closet bowl of a casing mounted beside the same, a swing frame in said casing movable toward and away from the bowl, a seat carried by the frame extending therefrom toward the bowl being normally contained within said casing and adapted to be projected therefrom over the bowl, a supply container for the strip and a take-up spool for the strip within said casing, means for holding said take-up spool against rotation when the seat is projected, whereby the outward movement of the latter causes the strip to be fed over its surface, and means for rotating the take-up spool when the seat is withdrawn so as to roll up a part of the strip which was previously upon the surface of the seat.

4. The combination with a water closet bowl of a casing beside the same, a swing frame comprising a rock shaft mounted below the top of said bowl in the casing and arms carried by said rock shaft, a seat pivoted to said arms at approximately the height of the rim of said bowl projecting therefrom toward the bowl and adapted to be contained wholly within the casing and to be projected therefrom over the adjacent portion of the bowl, a supply spool carrying a covering strip mounted within the casing, a guide roll beneath the seat about which the strip passes to the inner edge of the seat, said strip extending over the upper surface of the seat, a take-up spool to which the strip passes from the seat, means for so swinging said frame as to advance and retract the seat, means for holding the take-up spool against rotation when the seat is projected, whereby the latter is caused to draw off a sufficient length of the covering strip to place a fresh portion thereof upon its surface, and means for rotating the take-up spool to take up the slack of the strip when the seat is withdrawn.

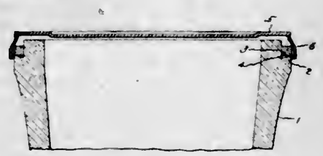
5. The combination with a water closet bowl of a casing beside the same, a swing frame comprising a rock shaft mounted below the top of said bowl in the casing and arms carried by said rock shaft, a seat pivoted to said arms at approximately the height of the rim of said bowl projecting therefrom toward the bowl and adapted to be contained wholly within the casing and to be projected therefrom over the adjacent portion of the bowl, a supply spool carrying a covering strip mounted within the casing, a guide roll beneath the seat about which the strip passes to the inner edge of the seat, said strip extending over the upper surface of the seat, a take-up spool to which the strip passes from the seat, means for so swinging said frame as to advance and retract the seat, means for holding the take-up spool against rotation when the seat is projected, whereby the latter is caused to draw off a sufficient length of the covering strip to place a fresh portion thereof upon its surface, a yielding pressure member bearing against the strip between said supply and guide rolls maintaining a bend in the strip and at the same time holding it under light tension, and means for rotating the take-up spool to take up the slack of the strip when the seat is withdrawn.

1,346,256. PULLING-OVER MACHINE. FRED RICKS, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 28, 1916. Serial No. 122,630. 31 Claims. (Cl. 12—4.)



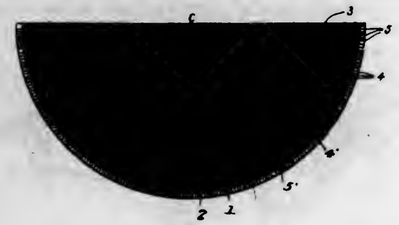
1. A machine of the class described having, in combination, power operated means for pulling an upper over a last and for holding the upper under tension to permit relative adjustment of the upper and the last, said means being constructed and arranged to operate upon the work with the last presented bottom downward and the toe end pointing upward away from the operator at such an angle as to enable the operator to view the top and front of the upper continuously during the pulling-over operation while maintaining a natural attitude in front of the machine, and means whereby the operator may effect relative adjustment of the upper and the last after the pulling operation, said adjusting means extending into position for manipulation by the operator without necessitating any change in his position such as to affect his normal view of the work.

1,346,257. HERMETIC CLOSURE FOR RECEPTACLES. CLARENCE NORTON ROBINSON, Palatine Bridge, N. Y. Filed July 14, 1919. Serial No. 310,748. 2 Claims. (Cl. 215—81.)



1. For hermetically sealing substances, the combination of a receptacle having on its exterior below the rim an upwardly facing shoulder that inclines outward at less than right angles to the exterior wall of the rim, a rectangular elastic gasket located on said shoulder, and a cap having a downward and outward flaring skirt with the inner wall of the flaring portion of said skirt shaped to engage the upper and outer angle of said gasket and force the gasket diagonally to its seat on said shoulder when the cap is held down by exterior air pressure.

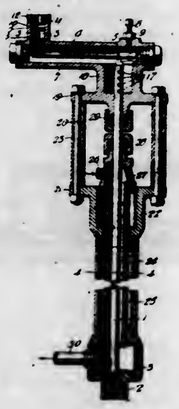
completed, the said rule being provided with units and subdivisions equal in size to the units and subdivisions of the protractor to measure the lengths of the unknown sides of the triangle by application thereto.



2. A combination as described in claim 1 wherein the length of said rule is equal to the diameter of the protractor.

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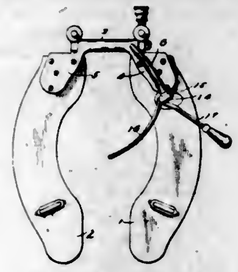
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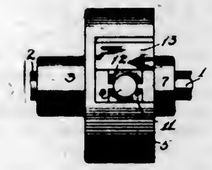
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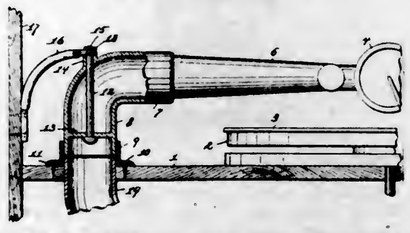
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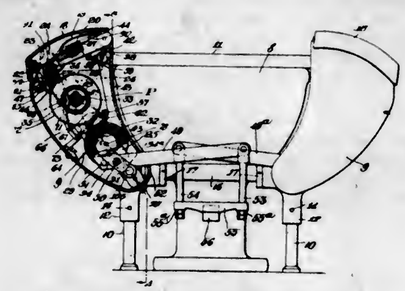


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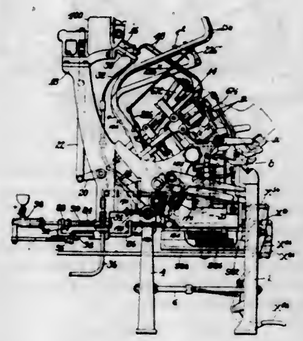
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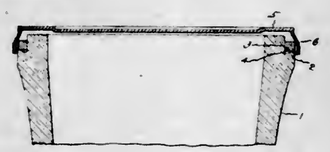
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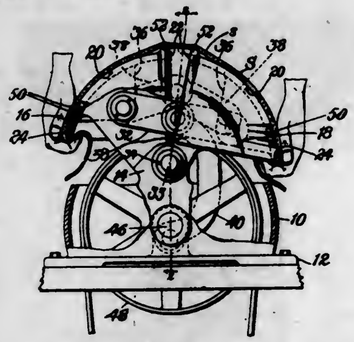
1. A machine of the class described having, in combination, power operated means for pulling an upper over a last and for holding the upper under tension to permit relative adjustment of the upper and the last, said means being constructed and arranged to operate upon the work with the last presented bottom downward and the toe end pointing upward away from the operator at such an angle as to enable the operator to view the top and front of the upper continuously during the pulling-over operation while maintaining a natural attitude in front of the machine, and means whereby the operator may effect relative adjustment of the upper and the last after the pulling operation, said adjusting means extending into position for manipulation by the operator without necessitating any change in his position such as to affect his normal view of the work.

1,346,257. HERMETIC CLOSURE FOR RECEPTACLES. CLARENCE NORTON ROBINSON, Palatine Bridge, N. Y. Filed July 14, 1919. Serial No. 310,748. 2 Claims. (Cl. 215—81.)



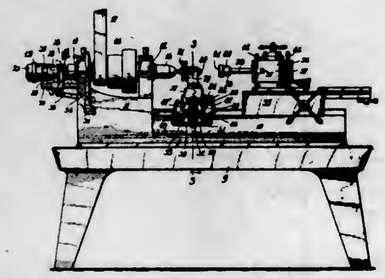
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1,346,258. STRETCHING APPARATUS. ARTHUR L. RUSSELL, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 11, 1918. Serial No. 216,481. 34 Claims. (Cl. 69—8.)



1. In a stretching apparatus, a form consisting of a plurality of relatively movable sections over which the material to be stretched may be placed, and power-operated means arranged to cause successive separations and approaches of the sections to effect the stretching of each piece of work, the form being constructed and arranged to permit the material to be shifted over the sections during their successive movements.

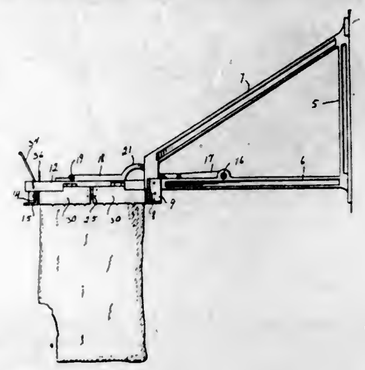
1,346,259. MACHINE FOR TRIMMING VALVES. AUGUSTUS E. SCHLIEDER, Detroit, Mich., assignor to Schlieder Manufacturing Co., Detroit, Mich., a Corporation of Michigan. Filed Mar. 23, 1916. Serial No. 86,223. 1 Claim. (Cl. 29—27.)



In a machine of the character described, the combination with a support and a rotatable work-holding element adapted to hold a work-piece, of a tool slide movable at right angles to the axis of the work-piece, means for actuating said tool slide, a second tool slide movable on said first-mentioned tool slide at right angles to the axis of the work-piece, a double-acting lever pivotally secured to said support, a link connecting one end of said lever with one end of said first-mentioned tool slide, a link connecting the opposite end of said lever with the corresponding end of said second tool slide, and a pair of cutting tools secured to said tool slides.

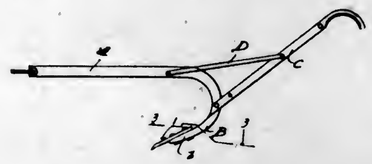
1,346,260. BAG SUPPORTING AND CLAMPING MECHANISM. JACOB EMIL SCHMANDT, Eddyville, Oreg. Original application filed Nov. 23, 1918, Serial No. 263,858. Divided and this application filed Aug. 22, 1919. Serial No. 319,161. 9 Claims. (Cl. 83—26.)

1. In combination, fixed and movable bag supporting bars, manually operable means for shifting the movable supporting bar toward the fixed bar to close the mouth of the bag, said means including a rotatable shaft, spaced rods pivotally connected at one of their ends to the movable bar, and means connecting the other ends of said



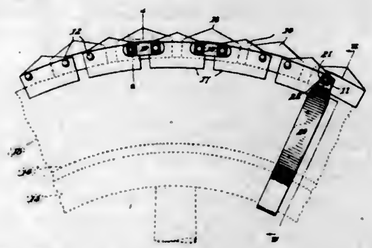
rods to the shaft, whereby said bar is moved to its effective clamping position upon a partial rotation of the shaft.

1,346,261. BLADE FOR AGRICULTURAL IMPLEMENTS. ERNEST A. SCHMUTTE, White Bluffs, Tenn. Filed Aug. 1, 1919. Serial No. 314,706. 3 Claims. (Cl. 97—11.)



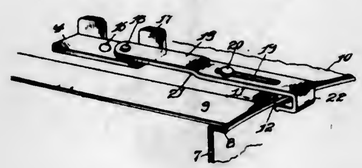
3. A device of the character described comprising, a blade of substantial triangular shape, the broader end of the blade being provided with spaced rearwardly converging relatively deep cutouts providing a central forwardly directed substantially V-shaped tooth and forwardly directed side arms contiguous thereto, the inner lateral edges of said side arms and the lateral edges of the tooth being beveled to provide rearwardly converging cutting edges.

1,346,262. AUTOMOBILE-WHEEL TREAD. JOHN SEREDIUK, Winnipeg, Manitoba, Canada. Filed Mar. 2, 1920. Serial No. 362,687. 4 Claims. (Cl. 152—16.)



4. A tread member comprising three circumferential rows of pointed blocks arranged in staggered relations, transverse rivets secured through the blocks of the intermediate row and the adjacent blocks of each side row, whereby two opposite side blocks are pivotally connected between each adjacent pair of blocks in the middle row, removable bolts pivotally connecting the blocks of each row at one point upon the device, links at the sides of the device connecting the adjacent pairs of said bolts together and a strap attached to one of the pivotal connections for the blocks adapted for surrounding the tire rim and felly of a wheel when the device is mounted thereon.

1,346,263. DOOR-LOCK FOR REVOLVING DRUMS. RUDOLPH F. SETTLAGE, Alton, Ill., assignor to Brokaw-Eden Company, a Corporation of Delaware. Filed Oct. 17, 1917. Serial No. 197,031. 1 Claim. (Cl. 292—143.)



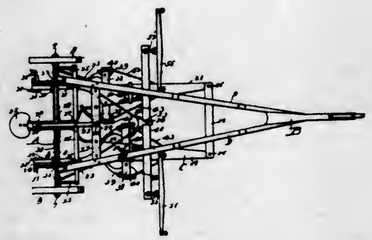
A lock of the class described comprising in combination with a receptacle and a removable cover, of an elongated slightly bent locking bar slidably supported upon the cover, the one end of the bar formed into a hook which is adapted to fit over the peripheral flange of the receptacle, said bar having a slot which allows for the movement of the bar, a locking member located on the cover, the free end of the bar being pivotally connected to said member and a pair of ears formed on the member by which the same is manipulated.

1,346,264. TORPEDO-CONTROLLING MECHANISM. WILLIAM G. SHELTON, New York, N. Y. Filed Aug. 29, 1918. Serial No. 251,932. 15 Claims. (Cl. 114—23.)



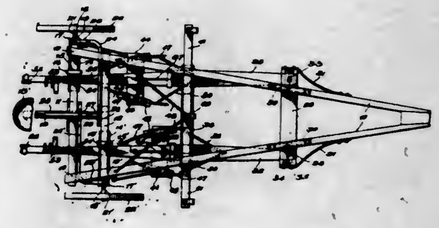
1. A torpedo comprising propelling means, a steering rudder, a diving rudder, and means controlled by said propelling means to actuate either one of said rudders upon the torpedo traveling a predetermined distance, substantially as specified.

1,346,265. MACHINE-HOE. ROBERT R. SLIPP, Fort Fairfield, Me. Filed Feb. 17, 1919. Serial No. 277,544. 1 Claim. (Cl. 97—34.)



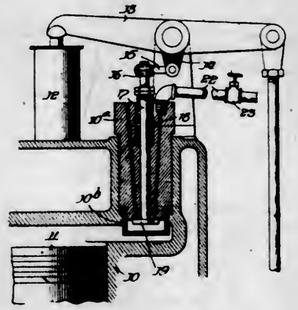
A ground-working implement comprising a frame wheel supported at its rear, stirrups depending from the frame, a cross-bar carried by said stirrups, beams pivotally connected to and trailing behind said cross-bar, ground-working elements on said beams, a draft-bar on said beams, link connections between said draft-bar and each of said beams, a draft member pivotally mounted on said draft-bar, and a draft-connection extending rearwardly from said draft member to said frame.

1,346,266. GROUND-WORKING IMPLEMENT. ROBERT R. SLIPP, Fort Fairfield, Me. Filed Dec. 29, 1919. Serial No. 348,004. 3 Claims. (Cl. 97—34.)



1. A ground-working implement comprising a main frame, a supporting-wheel mounted in one side of the rear portion of said frame, a cross member in the rear portion of said frame, a channel member shiftable longitudinally on said cross member, means whereby said members are held adjustably together, and a supporting-wheel on said channel member.

1,346,267. FUEL-VALVE. FRANK G. SLONEK, Chicago, Ill., assignor to R. M. Hvid Company, Chicago, Ill., a Corporation of Michigan. Filed Dec. 3, 1917. Serial No. 205,077. 2 Claims. (Cl. 123—33.)

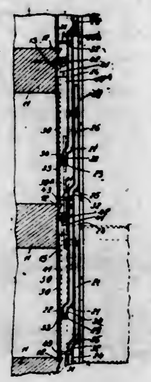


1. In a hydrocarbon engine, the combination with a cylinder having an aperture in its head, of a plug adapted to be mounted in said aperture, an ignition cup carried at the lower end of said plug, a rotary valve mounted within said cup, said valve being provided with a stem carried by the plug, a main valve rocker, and means connecting said rocker to said valve for rotating it, substantially as described.

1,346,268. DOOR. EDWARD A. SMITH, New York, N. Y. Filed Dec. 12, 1918. Serial No. 266,502. 5 Claims. (Cl. 20—19.)

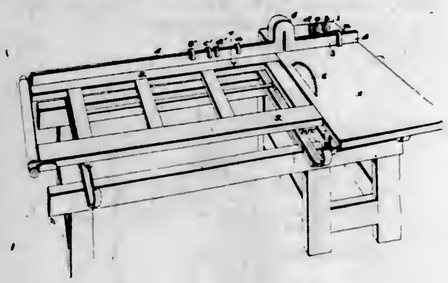
1. A door, guides therefor at opposite sides of the door opening, rigid brackets projecting from the door near the edges thereof, said brackets being spaced vertically a fixed distance, and members on said brackets arranged to be

engaged by and to move in the guides, said guides having offset portions spaced vertically the same distance as that



between the brackets, arranged to impart a transverse bodily sliding movement to the door when said door is moved vertically.

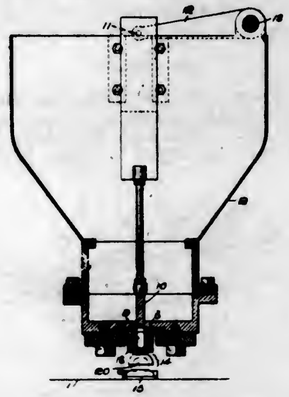
1,346,269. CUT-OFF SAWING APPARATUS AND METHOD OF USING THE SAME. GEORGE ANDREWS SMITH, South Hill, Va. Filed Aug. 29, 1917, Serial No. 188,843. Renewed Dec. 6, 1919. Serial No. 343,114. 11 Claims. (Cl. 143—168.)



1. The method of operating cut off saw apparatus which apparatus includes a table, a cutoff saw and a fence, said method consisting in providing a definite series of board stops and locating the same at the farther side of the saw, providing a series of related observation stops and locating them at the near side of the saw, using one or another of the series of board stops to cut off shook lengths from the board irrespective of the observation stops, and as the end of the board approaches the location of the observation stops, determining by comparison of the end of the board with the observation stops, which of the board stops to use in order to obtain the greatest available number of shook lengths out of the remainder of the board with the least possible waste.

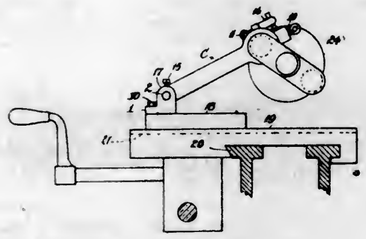
1,346,270. DEVICE AND MECHANISM FOR DEPOSITING COATING UPON FOOD PRODUCTS. JOSEPH J. SMITH, Dorchester, Mass., assignor to Loose Wiles Biscuit Company, Long Island City, New York, N. Y., a Corporation of New York. Filed Oct. 17, 1919. Serial No. 331,269. 7 Claims. (Cl. 107—28.)

1. A device for applying coating to food products consisting of a discharge member having an elongated discharge opening that is open from end to end, said member being provided interiorly with means for directing the



flow of the material toward both ends of said elongated discharge opening.

1,346,271. MEANS FOR TURNING CRANK-PINS AND ECCENTRICS AND TRUING CRANK-SHAFTS. THOMAS SMITH, Warrnambool, Victoria, Australia. Filed May 29, 1918. Serial No. 237,247. 3 Claims. (Cl. 82—9.)



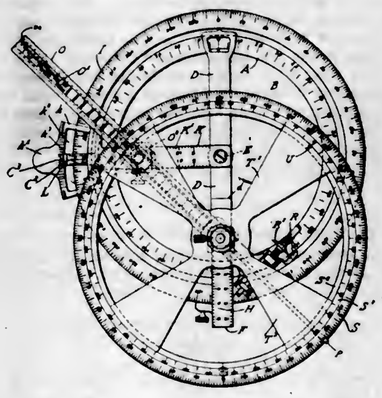
1. A machine for truing up or turning crank pins of crank shaft and eccentrics, having in combination a rotary element and a dead center between which the work is held in axial alinement, a support, a crank arm pivotally connected at one end to said support whereby the crank arm is permitted to rock in a plane at right angles to the axis of the crank shaft, and a tool holder carried on the other end of said crank arm, said holder comprising two semi-cylindrical members hinged together, one of said members having its inner periphery formed as a semi-cylindrical cutter and the other member having a non-cutting inner face, the cutting face of said cutting member having a contour corresponding with a semi-contour of the true form intended for the finished work, means for maintaining the cover closed, said cover being formed with a recess which extends in a radially outward direction from the inner periphery of the cover, and having a screw hole which extends from said recess through the outer periphery of the cover, a block located in said recess and radially slidable therein, its inner end being concave and adapted to engage the work in the holder, and a screw which is adjustable in said screw hole and is capable of being set up to engage with said block to hold the block in a position to maintain the work in operative relation to the cutter.

1,346,272. ANIMAL-POKE. DAVID B. SMITHSON, Wellston, Okla. Filed Nov. 17, 1919. Serial No. 338,713. 4 Claims. (Cl. 119—139.)



1. An animal poke comprising two pivotally connected sections, said sections including contact members, spurs pivoted to said sections and a link movably connecting the spur of each section to the opposite section.

1,346,273. TORPEDO-DIRECTOR. ARISTIDES DEL SOLAR, Boston, Mass., assignor to Alfred R. Shrigley, trustee, Boston, Mass. Filed May 19, 1917. Serial No. 169,768. 21 Claims. (Cl. 33—75.)



1. In a torpedo director, a graduated base circle, a second graduated circle adjustably mounted thereon, a graduated slide member pivoted to and radially adjustable with respect to said base circle and circumferentially adjustable with respect to the second circle, a second slide member radially adjustable on the base circle, and a pointer bar pivotally connected to the last named slide member and slidably and pivotally connected to the other slide member.

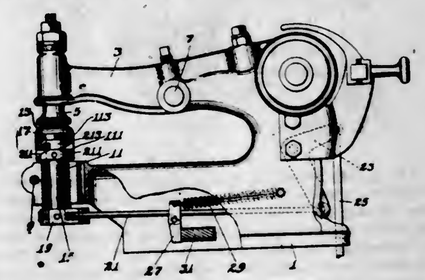
1,346,274. SAFETY DEVICE FOR ELEVATORS. WILLIAM J. SPRINGER, Detroit, Mich. Filed July 7, 1919. Serial No. 309,052. 3 Claims. (Cl. 187—98.)

1. In a safety device for elevators, the combination with an elevator and a floor past which said elevator travels, of a pair of trap doors provided respectively in the platform of the elevator and in said floor, having their free edges in proximity when said platform is adjacent the floor, said doors being free to swing upwardly, and supporting brackets for said doors each comprising upper and lower pivotally mounted arms one of which is slotted and the



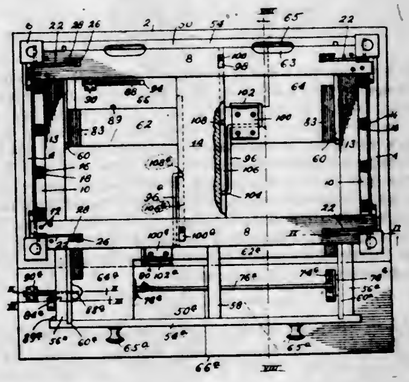
other provided with a pin engaging the slot whereby the bracket is upwardly angularly adjustable when struck from beneath.

1,346,275. SEAM-POUNDING MACHINE. WILLIAM C. STEWART, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 11, 1916. Serial No. 96,786. 4 Claims. (Cl. 12—53.)



1. A machine of the class described, having in combination, a hammer, an anvil supporting member rigid with the frame of the machine, an anvil, said member and anvil having a common axis and being provided with coöperating cam surfaces such that relative angular movement of said anvil and member about said axis will raise said anvil or permit it to be lowered, means for normally maintaining an angular relation between the anvil and member such that the anvil is held stationary in raised position and manually controlled means for varying the angular relation at any time during the operation of the machine to permit said anvil to be lowered.

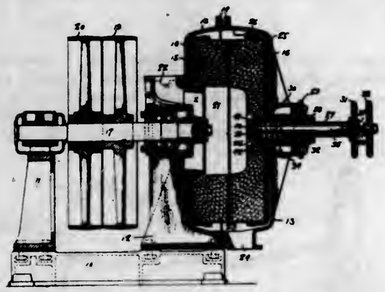
1,346,276. EXTENSION-TABLE. ANDREW H. STONE, Kansas City, Mo. Filed July 7, 1919. Serial No. 309,087. 7 Claims. (Cl. 45—113.)



4. In a table of the character described, a table top, a frame to said top embodying superimposed slideways, two skeleton drawers one having slides in the lower slideways

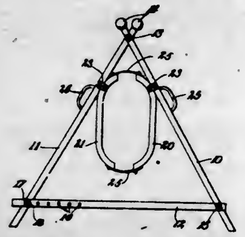
the other having slides in the upper slideways, and foldable leaves in said drawers arranged to be supported in extended position and in alinement with the table top by the drawers when the same are in outward position.

1,346,277. PULP-REFINER. HERMANN F. STORBER, New York, N. Y., assignor to J. M. Voith Company, Inc., a Corporation of New York. Filed Sept. 30, 1915, Serial No. 53,299. Renewed May 29, 1920. Serial No. 385,643. 5 Claims. (Cl. 92—26.)



1. In a pulp refiner, a runner stone, a stationary stone coöperating therewith, a carrier cup for said stationary stone, having an axial sleeve, a pressure spring within said sleeve bearing against one end of the latter, a movable abutment for the other end of said spring within said sleeve, and means for displacing said cup and spring abutment simultaneously or independently of each other to vary the position of said stones with relation to each other or the pressure of the spring on the stationary stone.

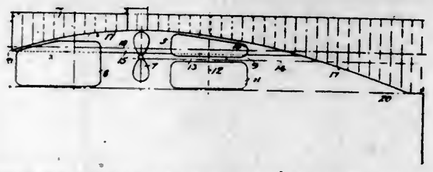
1,346,278. CATTLE-YOKE. JOHN SWITYK, Meota, Saskatchewan, Canada. Filed Mar. 23, 1920. Serial No. 368,031. 2 Claims. (Cl. 119—138.)



1. A cattle yoke for the purpose specified comprising a triangular frame made up of a pair of side bars hinged together adjacent their upper ends, a horizontal bottom bar, means connecting said bottom bar to said side bars to hold the latter at different angles of inclination toward one another, a collar mounted in said frame and split vertically into two halves, a pair of link plates connecting each collar half with a side bar, said link plates being each pivotally connected at one end to a collar half and at opposite ends to a side bar, and means for attaching the collar halves together when moved with the said side bars to expand or contract the collar.

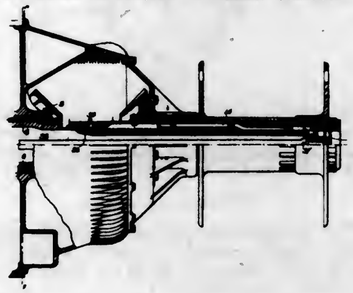
1,346,279. SCREW-PROPELLED CHAMBERED-STERN TOWBOAT. THOMAS R. TARN, Brooklyn, N. Y. Filed July 22, 1919. Serial No. 312,555. 7 Claims. (Cl. 114—57.)

1. A tow boat of the chambered type, having a rudder and a propeller both located in the chamber thereof, the chamber being formed between adjacent spaced apart longitudinally and rearwardly extending members located at the under surface of the boat hull, the proximate corners of said members being rounded and the lower surfaces of



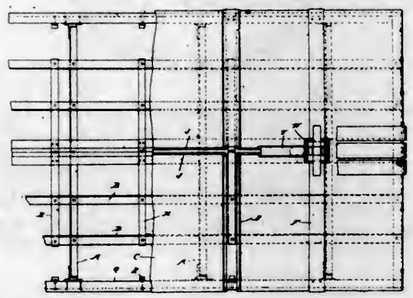
said members lying in a plane parallel to the surface level of the wated and extending the entire longitudinal length of said chamber.

1,346,280. INTERNAL-COMBUSTION ENGINE. JOHN GODFREY PARRY THOMAS, Barnes, England. Filed Mar. 25, 1918. Serial No. 224,537. 9 Claims. (Cl. 184—104.)



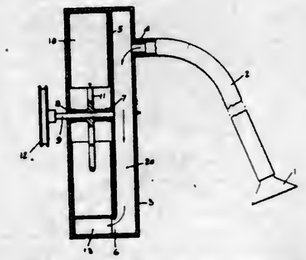
5. In an internal combustion engine the combination with a hollow crank shaft, crank and crank pin, of a hollow extension upon said shaft, a tube extending through said crank, crank pin and shaft and extension thereof but not filling the hollow therein, radiating fins formed upon said extension of the shaft, bearings for said shaft, means for circulating oil among said fins and through said bearings, and means for circulating water through said tube and through the hollow crank pin and shaft around said tube to cool the bearings and said fins and thereby cool the oil.

1,346,281. CAR-ROOF. WILLIAM D. THOMPSON, Detroit, Mich., assignor to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 10, 1919. Serial No. 329,712. 7 Claims. (Cl. 108—5.)



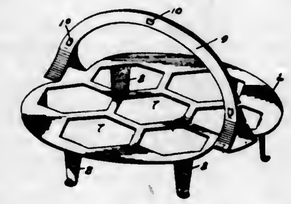
1. A car roof comprising an open frame of carlines and purlins, roofing sheets laid directly upon said frame irrespective of the spacing of the carlines and having a limited freedom of movement, means secured to the frame between adjacent sheets for limiting the movement thereof, and means embracing said limiting means for weatherproofing and holding down the sheets.

1,346,282. COTTON-PICKING MACHINE. JOSEPH B. TIBBS, Tibbs, Miss., assignor of one-half to Thomas Tibbs, Tibbs, Miss. Filed Aug. 4, 1919. Serial No. 315,159. 5 Claims. (Cl. 56—30.)



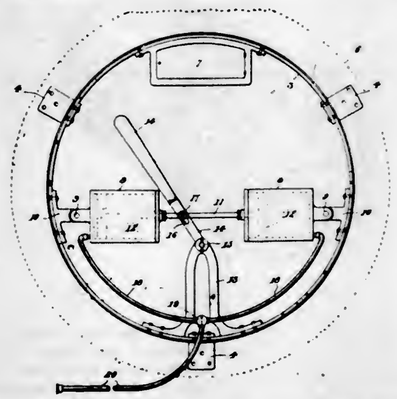
1. In a cotton picking machine, a bell member, a flexible tube connected thereto, a casing having an imperforate partition therein, a fan in one of the compartments thus formed and a connection from said casing to said flexible tube.

1,346,283. EGG-BOILING RACK. FRANK J. VIERLING, FRED R. BARTHOLOMEW, and MILO H. SMITH, Minneapolis, Minn., assignors to Sterling Specialities Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed July 12, 1919. Serial No. 310,476. 7 Claims. (Cl. 53—1.)



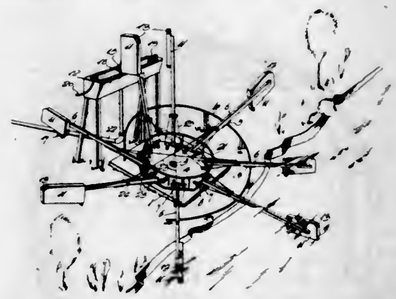
1. A sheet metal blank for making an egg boiling rack, having egg receiving holes, leg forming lips extending into certain of said holes, and two diametrically opposite bail forming portions located outward of the body of the rack and adapted to be turned into upright positions over the center of the rack.

1,346,284. TIRE-PUMP. PETAR WAJDIĆ, Pleasant Unity, Pa. Filed Jan. 19, 1920. Serial No. 352,328. 1 Claim. (Cl. 230—27.)



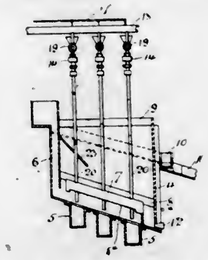
A pump of the type described comprising an annular supporting member, pump cylinders pivotally mounted at their ends on said supporting member in opposed relations, a piston in each cylinder, a single piston rod connecting the pistons, a bracket secured to the annular supporting member at a point beneath the piston rod, a handle pivotally mounted at its lower end in the upper end of said bracket and a pin and slot connection between the piston rod and handle, and a laterally offset portion carried by the handle and positioned outwardly of the annular supporting member.

1,346,285. CURRENT-MOTOR. THOMAS H. WALKER, Wallace, Idaho. Filed Oct. 16, 1919. Serial No. 330,995. 3 Claims. (Cl. 103—69.)



1. In a current motor, a hub mounted to rotate on an upright axis, a plurality of arms pivotally connected to said hub and adapted to extend radially therefrom into a current of water so that the hub and arms can be turned by the action of said current, hollow propelling and water-carrying paddles fixed on said arms and provided with valved outlets, a receiver for receiving water from the hollow paddles, and means operable by movement of the paddles to open the valves of said valved outlets when the latter are in position to discharge into said receiver.

1,346,286. APPARATUS FOR THE TREATMENT OF SULFID ORES. LESLIE VICKERY WATERHOUSE, Queenstown, Tasmania, Australia. Filed Jan. 3, 1917. Serial No. 140,354. 4 Claims. (Cl. 83—85.)



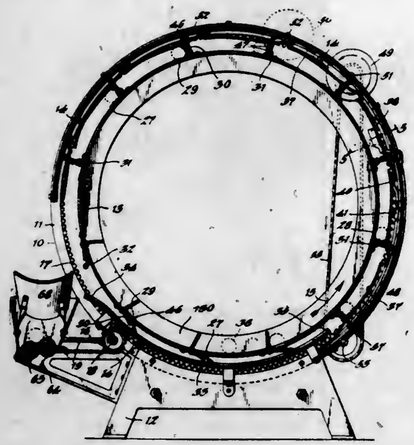
1. In a sulfid-separation apparatus, a frothing vessel; means for delivering pulp to be treated to said vessel and having a discharge opening adpacent the floor of said vessel; baffling means located in said vessel; a dash-pot adjacent the floor of the vessel; and frothing fluid delivering means extending through the vessel and having a discharge opening adjacent the dash-pot and below the baffling means, the stream of fluid from said delivering means discharging downwardly toward the dash-pot.

1,346,287. FIREPROOFING OF WOOD. HOWARD F. WEISS, Madison, Wis., assignor to C. F. Burgess Laboratories, Madison, Wis., a Corporation of Wisconsin. Filed Aug. 17, 1918. Serial No. 250,328. 4 Claims. (Cl. 99—12.)

1. A one-solution method of fireproofing wood, which comprises impregnating the wood with an aqueous solu-

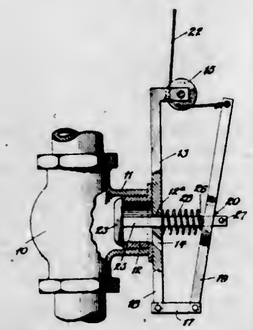
tion of a soluble barium sulfid, and then converting said soluble barium compound into insoluble barium carbonate by treatment with gaseous carbon dioxid, whereby the sulfur of the said barium sulfid is expelled as hydrogen sulfid and the said insoluble barium carbonate is formed within the body of the wood, extending inwardly from the periphery of the same.

1,346,288. MACHINE FOR TRIMMING THE ENDS OF ARTICLES. HENRY J. WHEELER, Buffalo, N. Y. Filed Feb. 20, 1920. Serial No. 360,129. 18 Claims. (Cl. 146—11.)



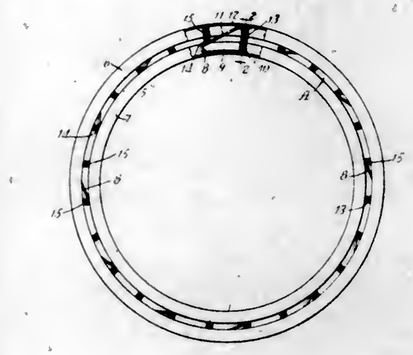
1. A machine for trimming the ends of articles comprising a circular carrier rotatable about a horizontal axis and provided with a plurality of openings arranged in an annular row, means for transferring the articles to be trimmed from the interior to the exterior of said carrier through said openings thereof, and cutting means which are arranged adjacent to the exterior of said carrier and past which said articles are propelled by the propulsion of said carrier.

1,346,289. VALVE. LE ROY G. WILBER, Sequim, Wash. Filed Mar. 5, 1920. Serial No. 363,605. 2 Claims. (Cl. 103—60.)



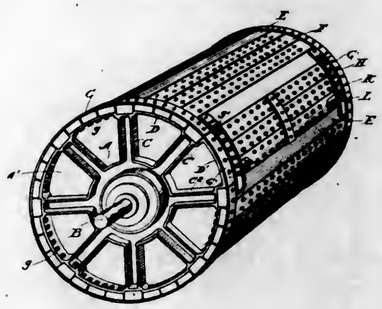
2. In combination, a water pipe, a T coupling in said pipe formed with a drain opening, a valve for closing a lateral opening in the T coupling, an arm secured to one end of the T coupling, a lever, a link between one end of the lever and the arm, a connection between the valve and the opening, and a rope connected to the opposite end of the lever to operate the valve.

1,346,290. RESILIENT INNER TUBE FOR VEHICLE-TIRES. FREDERICK P. WOODWARD, Topsfield, Mass., assignor of one-half to Esther A. Woodward, Boston, Mass. Filed Feb. 21, 1919. Serial No. 278,505. 2 Claims. (Cl. 152—8.)



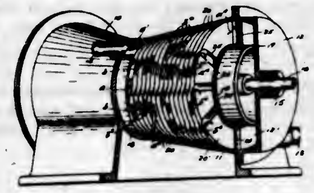
1. An inner tube for vehicle tires having, in combination, an outer convexo-concave ring, an oppositely disposed inner concavo-convex ring and a plurality of V-shaped springs interposed between said rings, one leg of each of said V-shaped springs being fastened to the inner face of said outer ring and the other leg of each of said V-shaped springs being fastened to said inner ring, a spiral spring interposed between one leg of each of said V-shaped springs and said outer ring, and another spiral spring interposed between the legs of each of said V-shaped springs.

1,346,291. WASHING-MACHINE CYLINDER. WILLIAM BARTHOLOMEW, Chicago, Ill., assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill., a Corporation of New York. Filed Oct. 23, 1915. Serial No. 57,461. 2 Claims. (Cl. 68—18.)



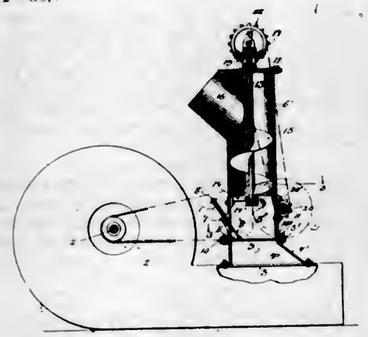
1. In a cylinder for washing machines, the combination with end walls, of staves overlying at their ends the peripheries of said end walls, hoops formed in sections surrounding the ends of the staves, the corresponding sections of the hoops overlying the opposite ends of the same staves, and means for separately detachably securing the sections of the hoops to the end walls.

1,346,292. STEAM TUURBINE-ENGINE. JOHN A. BECKLUND, Centralia, Wash. Filed Oct. 27, 1919. Serial No. 333,667. 5 Claims. (Cl. 253—44.)



1. In a turbine of the class described, a rotary member having interconnected peripheral blades to afford a primary series of convoluting passages and a secondary series of convoluting passages constituting branches of the first named series.

1,346,293. FEED-DRUM FOR PNEUMATIC ELEVATORS. GEORGE BERNERT and JACOB BERNERT, Milwaukee, Wis., assignors to Bernert Manufacturing Company, Milwaukee, Wis., a Corporation of South Dakota. Filed Dec. 5, 1914. Serial No. 875,556. 2 Claims. (Cl. 302—50.)



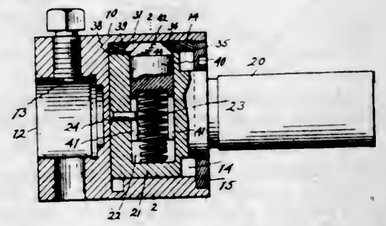
2. In a pneumatic conveying apparatus, the combination of a conveying air duct, means for procuring a pressure current of air through said duct, an elongated feed conveyer casing having one end in communication with the air duct above the path of the air current therein, a valve pivotally mounted within the feed conveyer casing adjacent its point of communication with the air duct, said valve extending transversely across the casing, and a spiral conveyer in the feeder casing having its axis intersecting the plane of the valve when closed.

1,346,294. SAFETY-RAZOR. GEORGE BROWNING, Chicago, Ill. Filed Sept. 27, 1918. Serial No. 255,968. 3 Claims. (Cl. 30—12.)



3. A device of the kind described, comprising a handle, a supporting blade fixedly secured to the handle, a coöperating razor blade and means for operatively securing the blade on the guard, in combination with a lever extended transverse the guard, pivotally supported between its ends in a central position on the device, with one end extending to a point near the front of the guard and thence bent to extend through an opening therein, in contact with the blade, and its other end extended for operative purposes.

1,346,295. TOOL OR WORK HOLDING DEVICE. WILLIAM J. BURGER, East Cleveland, and MAX E. LANGE, Cleveland, Ohio, assignors to The Warner & Swasey Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 27, 1919. Serial No. 333,584. 10 Claims. (Cl. 10—89.)



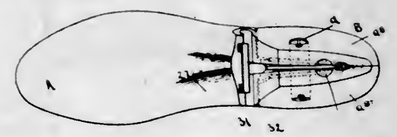
1. A tool or work holding device, comprising, in combination, a shank, a tool or work holding hood or member which is rotatably mounted on or in said shank and is capable of limited endwise movement on or in said shank, one of said parts being provided with a ratchet recess both side walls of which may serve as pawl engaging teeth, and a spring actuated pawl movably mounted on the other of said two parts,—said pawl having a tooth whose opposite side walls are of different lengths and are disposed for engagement with opposite side walls of said ratchet recess, and means whereby an endwise movement of the hood on the shank will move the pawl far enough to disengage the short side of said tooth from the opposed side wall of the ratchet recess but not far enough to prevent the engagement of the long side of said tooth from the other side wall of said ratchet recess.

1,346,296. SHOE-FORM. JEREMIAH F. COLLINS and LOUIS B. WESTON, Brockton, Mass. Filed Sept. 7, 1916. Serial No. 118,906. 8 Claims. (Cl. 12—128.)



1. A shoe form comprising laterally contractible and expansible front and rear portions connected by a transversely-extending hinge, and means operated by relative movement of said front and rear portions on the connecting hinge for contracting and expanding them.

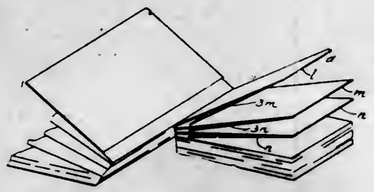
1,346,297. LAST. JEREMIAH F. COLLINS and LOUIS B. WESTON, Brockton, Mass. Filed Dec. 1, 1916. Serial No. 134,300. 23 Claims. (Cl. 12—136.)



1. A longitudinally expansible and contractible last comprising a fore part and a laterally expansible and con-

tractible heel part having means for readily connecting and disconnecting them, and means for laterally expanding the heel part to a width corresponding to that of the fore part.

1,346,298. CONTAINER. CHARLES H. CONGDON, East Stroudsburg, Pa. Filed May 7, 1919. Serial No. 295,324. 6 Claims. (Cl. 129—20.)



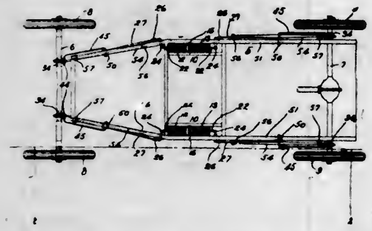
1. In a device of the kind described, the combination of two envelops the flap of one of which is secured to the inside of the front of the other.

1,346,299. LADDER. HAMILTON A. COOPER, Toledo, Ohio, assignor of one-half to Charles A. Briggs, Toledo, Ohio. Filed July 14, 1917. Serial No. 180,671. 1 Claim. (Cl. 228—61.)



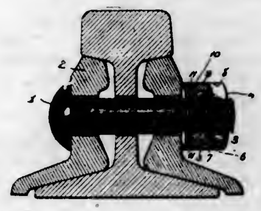
In a device of the class described, the combination with a member to be supported, of a shoe comprising spaced straps extending upon opposite sides of said member and connected by a transverse end wall carrying a bracket portion having a longitudinal recess formed therein provided with a tapered end, a floor engaging device having a square cut end adapted to seat upon the tapered portion of the recess and a pointed end for engaging the floor, and means for retaining the floor engaging device within the socket portion.

1,346,300. SPRING MECHANISM FOR AUTOMOBILES AND OTHER VEHICLES. ERNEST P. DARGIN, Denver, Colo. Filed Sept. 26, 1917. Serial No. 193,282. 7 Claims. (Cl. 267—15.)



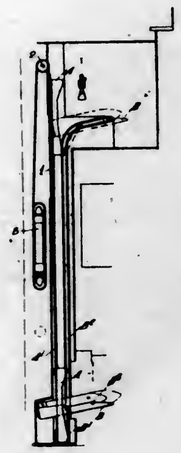
1. The combination with the chassis frame and axle of a vehicle, of radius rods pivotally connected directly with the frame at one extremity and with a bearing mounted on the axle at their opposite extremities, the rod extremities having axes extending parallel with the axis of the axle, the bearings having axes connected with the axle by pivots whose axes are disposed horizontally and crosswise of the axis of the axle to permit the axle to rock on said pivots.

1,346,301. NUT-LOCK. JOHN Q. DAUGHERTY, Broken Arrow, Okla., assignor of one-fourth to Knox M. Rowe, Broken Arrow, Okla. Filed Apr. 23, 1920. Serial No. 376,021. 2 Claims. (Cl. 151—21.)



2. The combination of a split nut having a tubular body portion and a head having an undercut inner end portion, and a ring in which said tubular body portion of the nut is freely movable and against one end of which the edge of the nut formed by the undercut portion bears, said ring having an internal shoulder and the tubular portion of the nut having a tit overlying said shoulder to prevent separation of the nut and ring.

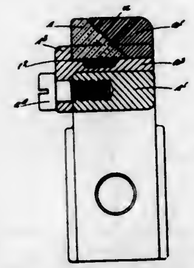
1,346,302. AMMUNITION-HOISTING APPARATUS. ARTHUR TREVOR DAWSON, Westminster, London, and JAMES HORNE, Barrow-in-Furness, England, assignors to Vickers Limited, Westminster, London, England. Filed June 4, 1915. Serial No. 32,250. 6 Claims. (Cl. 89—46.)



1. In an ammunition hoisting apparatus, an auxiliary projectile cage additional to the usual hoist cage for lifting ammunition to the working chamber, said auxiliary cage being adapted to lift the ammunition while the latter is in a vertical position and to permit its assuming a horizontal position in the working chamber, a trunk which is constructed to receive both the usual hoist cage and the auxiliary projectile cage and in which these cages move during their travel to and from the working chamber, and

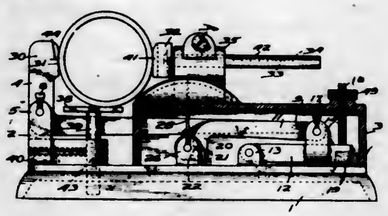
means for raising and lowering the cage, which means extends to a point above the upper end of the hoist, whereby the ammunition will be free to move from its vertical to its horizontal position.

1,346,303. SIGHTING DEVICE FOR GUNS. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, England. Filed Feb. 7, 1918. Serial No. 215,944. 5 Claims. (Cl. 33—52.)



1. In a sighting device for guns, a foresight composed of a light-transmitting prism and a luminous compound or substance situated beneath said prism to illuminate it for night use, said prism having a reflecting surface adapted to reflect the rays of the luminous substance rearwardly.

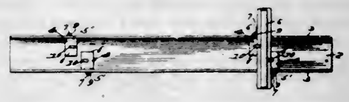
1,346,304. MICROMETER. AUGUSTUS F. DONALDSON, Toledo, Ohio, assignor to The Bunting Brass & Bronze Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 26, 1917. Serial No. 144,584. 10 Claims. (Cl. 33—148.)



1. In a micrometer a supporting part, an adjustable member connected to the supporting part and having a pair of vertical ridges, a plate having a broad plane horizontal surface located beneath the ridges for supporting cylindrical bodies having their axes extending in a direction at right angles to the said ridges, a lever pivoted to the supporting part, one arm of the lever having an edge substantially parallel to the ridges and opposing the ridges and located opposite a point between the ridges, means connected to the lever for pressing the said edge toward the said ridges to press the cylindrical bodies against the ridges by the pressure of the edge on the cylindrical bodies, and means connected to the lever for indicating relative movements of the said edge.

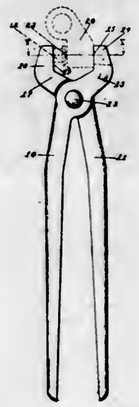
1,346,305. RAILWAY TIE AND FASTENER. EDWARD W. DRUMMOND, Wollaston, Mass. Filed Nov. 9, 1918. Serial No. 261,833. 1 Claim. (Cl. 238—62.)

The combination of a tie of substantially U-shaped conformation in cross section and embodying a pair of spaced parallel side portions, with a rail and fastening means therefor, the said fastening means comprising a pair of angle plates each having one leg lying against the inner face of one of the side portions of the tie, fasteners passing through the said legs and securing the said angle plates to the said side portions, the remaining legs of the angle plates lying with their faces flush with the upper edge of the side portions of the tie, and hook bolts passing



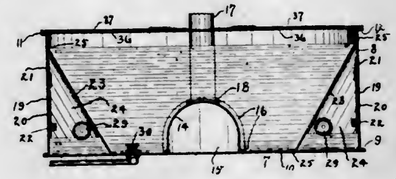
through the said remaining legs and engaging the base flange of the rail on opposite sides, the said base flange seating upon said remaining legs and upon the upper edges of the said side portions, as herein shown and specified.

1,346,306. PLIERS. HENRY T. DUKET, Toledo, Ohio. Filed July 30, 1917. Serial No. 183,520. 1 Claim. (Cl. 294—43.)



A tool for removing battery terminal connections comprising a pair of lever arms pivotally connected together, each of said lever arms being provided with an angular portion located adjacent its point of pivotal connection to the other lever arm and an offset head extending from the angular portion, the inner face of one head comprising a continuous flat surface while the other head is provided with a pair of forked arms adapted to releasably engage a portion of a battery terminal connection, the inner faces of said heads being substantially parallel when in operative position.

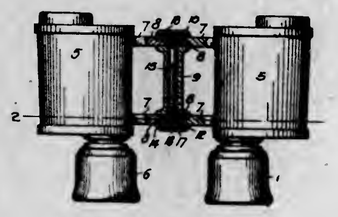
1,346,307. STOCK-WATERING TANK. ALBERT N. EATON, Omaha, Nebr. Filed Apr. 10, 1920. Serial No. 372,736. 1 Claim. (Cl. 119—73.)



A watering tank, comprising, in combination with a receptacle having a drink-aperture in its side wall and a pair of drink-apertures in its top, and having a drinking-compartment opening on the drink-aperture of its side wall, a valve for controlling a communication of the re-

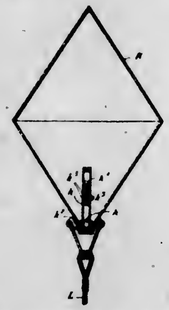
ceptacle with said drinking-compartment, a hingeably mounted door in said drinking-compartment, doors provided with fastening-devices and having their inner ends hingeably mounted adjacent to each other upon the top near the medial line of the receptacle and adapted to swing upwardly to permit engagement of their fastening devices, and adapted to be swung downwardly to make closures of the drink-apertures of said top, and a wall of inverted U-shape in cross-section mounted upon the bottom to provide a heating-compartment extending from the front to the rear side of the receptacle, said drink-aperture in the side being disposed in a plane adjacent to a drink-aperture of the top of said receptacle.

1,346,308. BINOCULAR-TELESCOPE. KARL A. EDSTROM, Denver, Colo., assignor of one-half to The Weiss Instrument Company, a Corporation of Colorado. Filed Aug. 14, 1918. Serial No. 249,799. 3 Claims. (Cl. 88—34.)



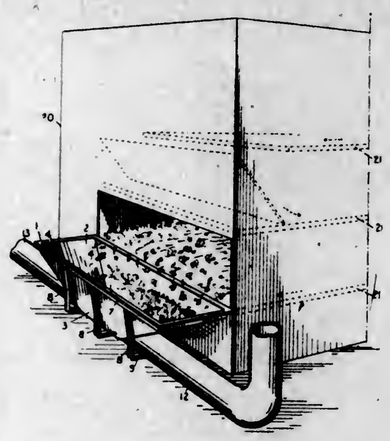
1. In a binocular telescope, the combination of a pair of casings having a hinge-connection including two axially alined joints, an internally threaded bushing turning with one of the members of one of the joints and providing a bearing for the other member of the same, a smooth-bored bushing turning with one of the members of the other joint and forming a bearing for the other member of the same, and a screw bearing upon the last-mentioned bushing and having a threaded end within the other.

1,346,309. SUBMARINE MINE. GIOVANNI EMANUELE ELIA, Rome, Italy, assignor to Vickers Limited, Westminster, London, England. Original application filed Sept. 6, 1917, Serial No. 190,095. Divided and this application filed Dec. 9, 1918. Serial No. 265,827. 4 Claims. (Cl. 102—3.)



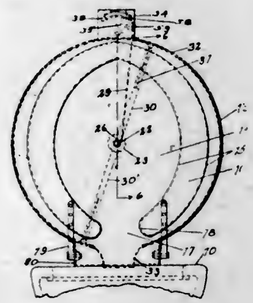
4. A submarine mine provided with a float controlling the mechanism for anchoring the mine at a predetermined distance below the surface of the sea, said float being provided with a passage for admitting sea water to the interior thereof, soluble material normally closing the passage, a liquid within the buoy which, when brought into contact with the soluble material, dissolves it to permit the entrance of water into the buoy through the passage, means for normally maintaining the float in such a position that said liquid is out of contact with said soluble plug the relation of the parts being such that after the mine has been launched said liquid comes automatically into contact with said soluble material.

1,346,310. HOPPER. THOMAS F. FEHRLE, Philadelphia, Pa. Filed Feb. 12, 1919. Serial No. 276,599. 2 Claims. (Cl. 302—52.)



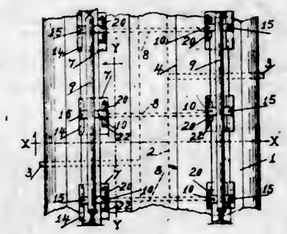
1. A hopper comprising flaring walls, a bottom portion connecting the flaring walls, an outlet conveyer pipe connected with the hopper above the apex of the angle formed by the said walls of the hopper, an air inlet pipe connected with the hopper, a deflector plate located within the inlet pipe adjacent to the end thereof attached to the hopper, and said deflector plate inclined at an angle to direct the air toward the bottom of the inlet pipe and the bottom of the hopper.

1,346,311. SANITARY TOILET. ERNEST G. FRIEDRICH, Indianapolis, Ind. Filed Mar. 31, 1919. Serial No. 286,504. 3 Claims. (Cl. 4—18.)



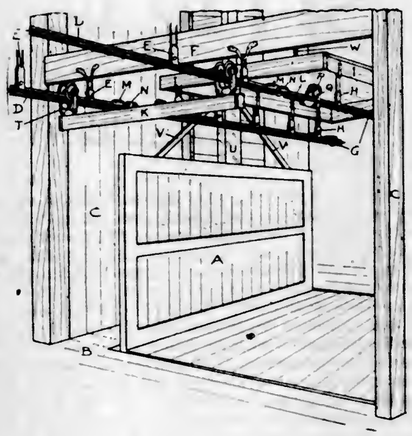
1. In combination with a toilet bowl a housing rigidly fixed to said bowl, a seat hingedly mounted on said housing, a stud centrally located within said housing, an arm rotatably mounted on said stud, a sleeve fixedly attached to said arm, a wiping element carried by said arm, a flexible element mounted on said sleeve for rotation of said arm, means for operating said flexible element, means for ejecting water upon said seat when in said vertical closed position and means for carrying said ejected water from said housing to said bowl, substantially as described.

1,346,312. RAILWAY STRUCTURE. EDWARD FURROW, Springfield, Ill. Filed July 14, 1919. Serial No. 310,588. 5 Claims. (Cl. 238—7.)



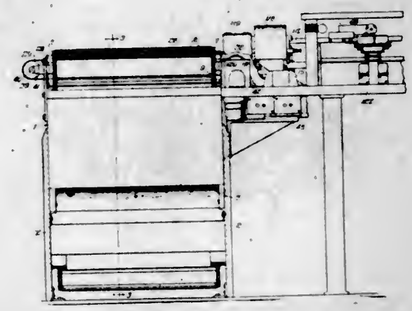
5. In a structure of the class described, a pivoted locking block having transverse grooves adjacent to the free end of the block; in combination with an extension having members adapted to engage in the transverse grooves of the block.

1,346,313. TRACK FOR OVERHEAD CARRIERS. PAUL M. HASSLER, Fairfield, Iowa, assignor to the Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed Apr. 30, 1920. Serial No. 377,844. 16 Claims. (Cl. 104—91.)



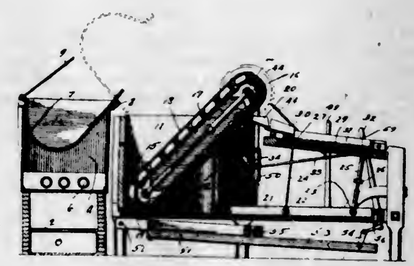
1. In tracks for overhead carriers, the combination with an elevator adapted to be raised and lowered through upper and lower rooms of a building, of a track connected to each of the overhead portions of a plurality of said rooms, a corresponding track connected to the overhead portions of the elevator, a trolley adapted to run on said overhead tracks, and means when in horizontal alinement to connect the track in each of the rooms with the track in the elevator, and to form a continuous trackway for the passage of the trolley from the track in a room to the track in the elevator, and vice versa.

1,346,314. CONVEYING MECHANISM. ALLEN B. HAZARD, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Sept. 1, 1915, Serial No. 48,513. Divided and this application filed Nov. 8, 1917. Serial No. 200,916. 11 Claims. (Cl. 193—24.)



1. In a testing machine, a conveyer consisting of a pair of chains, buckets secured at opposite ends to said chains, said buckets consisting of sheet metal having a cross-section similar to the letter M, and forming a long narrow trough with side reinforcements.

1,346,315. PRUNE-TREATING MACHINE. AUGUST HILFIKER, Salem, Oreg. Filed Sept. 12, 1919. Serial No. 323,239. 6 Claims. (Cl. 146—14.)

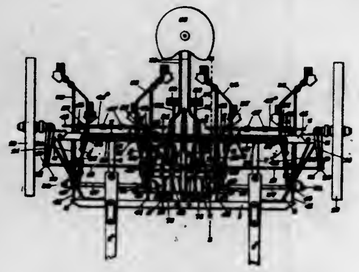


2. In a machine of the type described, the combination with a tank, and elevating means leading upward from said tank; of a lip under the delivery end of said elevator, a fixed drip pan beneath the lip, a frame movably supported above said pan and having a second lip underlying the first, a strainer tray in said frame above the pan and extending under the second lip, means for driving the elevator and for agitating the frame, and controls for said means.

1,346,316. PROCESS OF BLEACHING ASBESTOS. CHESTER L. HILL, Lancaster, Pa. Filed May 1, 1920. Serial No. 378,046. 9 Claims. (Cl. 252.)

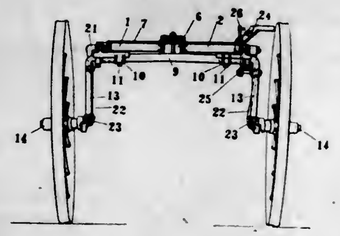
1. The herein described process of bleaching asbestos, which consists in subjecting asbestos fibers to the action of an acid in a gaseous condition in the presence of moisture, and then washing the fibers with water to remove the soluble salts so formed.

1,346,317. TWO-ROW CULTIVATOR. JOHN V. HOLSTEIN, Moline, Ill., assignor to Deere and Company, Moline, Ill., a Corporation of Illinois. Filed Nov. 27, 1915, Serial No. 63,730. Renewed Oct. 20, 1919. Serial No. 332,016. 12 Claims. (Cl. 97—35.)



1. A cultivator having a frame, supporting wheels therefor, a laterally movable element with which said wheels are connectible for simultaneous adjustment angularly to the frame, a rigid element with which said wheels are connectible to hold them non-adjustable, foot levers pivotally supported on the frame and connected with the laterally movable element and operable to actuate the latter, gangs of cultivating devices movably supported on the frame and connectible at will to the laterally movable element for adjustment simultaneously with the adjustment of the wheels and adjustable laterally with said element when the wheels are connected with the rigid elemnt, said cultivating devices adapted to be disconnected from the movable element and connected to the rigid element whereby the wheels only are adjustable by the laterally movable element when connected therewith.

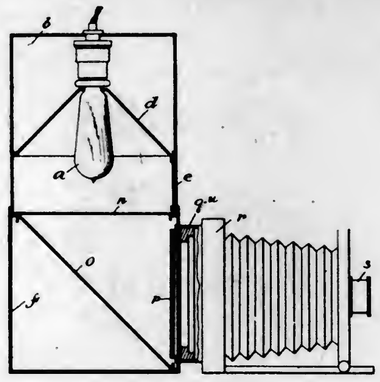
1,346,318. CULTIVATOR-WHEEL ADJUSTMENT. OTIS W. HOWARD, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Oct. 7, 1912, Serial No. 724,353. Renewed May 31, 1916. Serial No. 100,967. 18 Claims. (Cl. 97—35.)



1. In a cultivator, the combination of a main frame, crank axles having upper and lower portions substantially parallel to each other, the upper portions of the crank axles supported on the main frame angular to the horizontal plane of the main frame, and supporting wheels on the lower portions of the crank axles.

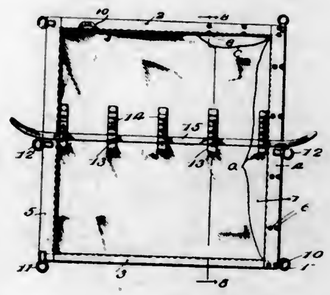
1,346,319. PHOTOGRAPHIC PROJECTION APPARATUS. ANTON KONIECZNY, Vienna, Austria. Filed July 21, 1915. Serial No. 41,148. 2 Claims. (Cl. 88—24.)

1. A photographic projecting apparatus for the purpose specified, comprising a casing, an elongated source of light thereon, and a reflector surrounding and coaxial with said source of light, said reflector consisting of an upper wall



at right angles to the axis of the source of light and a lateral wall at an obtuse angle to the upper wall.

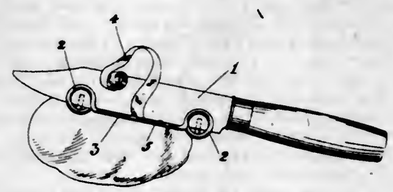
1,346,320. CONVERTIBLE PROTECTIVE COVERING. E MCIVOR LAW, Arcadia, Fla. Filed Nov. 24, 1917. Serial No. 203,823. 1 Claim. (Cl. 2—60.)



An article of the class described including a substantially rectangular sheet of flexible material having front and rear faces, a longitudinal series of fasteners secured to the front face of said sheet along one longitudinal edge portion thereof, a second series of fasteners secured to the rear face of the sheet along the opposite longitudinal edge portion thereof, said first named longitudinal edge portion being adapted to overlap the second named longitudinal edge portion whereby said first and second named fasteners may be connected, a transversely extending series of fasteners secured to the front face of said sheet along the lower end portion of the same and extending only half way across said sheet; and a second series of transversely extending fasteners secured to the rear face of said sheet at the same end portion of the sheet and extending across the other half of the sheet only, the first named half of the lower end portion of said sheet being adapted to be folded upon said second half of the same whereby the first and second named series of transversely extending fasteners may be connected.

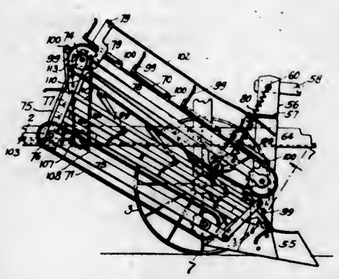
1,346,321. GAGE FOR PARING-KNIVES. ALBERT B. LEE, Minneapolis, Minn. Filed Mar. 14, 1919. Serial No. 282,690. 2 Claims. (Cl. 30—20.)

1. A paring gage for knives comprising a straight gage member adapted to extend along the cutting edge of a knife in spaced relation with the same, terminal coils located at the ends of the gage member adapted to embrace the blade of the knife, and extending terminals on said



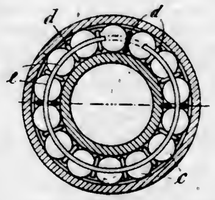
coils located within the end convolutions and projecting inwardly and adapted to insure a tight frictional engagement with the knife blade.

1,346,322. BEET-HARVESTER. WILLIAM K. LEWIS and DAVID T. BLEVINS, Denver, Colo., assignors to The National Beet Harvester Company, a Corporation of Colorado. Filed July 22, 1918. Serial No. 246,185. 2 Claims. (Cl. 55—138.)



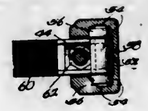
2. In a beet harvesting machine, the combination of a digging element for lifting roots from the soil, composed of two laterally converging blades adapted to admit and support the lifted roots between them, an endless conveyer overhanging the digging element, drags having a limited pivotal movement on the conveyer to fall into the space between the blades at the forward end thereof and move rearwardly through the same for the conveyance of the lifted roots, the drags being formed to loosely fit within the space between the blades of the digging element, and a second conveyer extending rearward of the element beneath the line of movement of the drags on the lower stretch of the upper conveyer, to provide a moving support for roots conveyed by the drags.

1,346,323. BALL-HOLDER FOR BALL-BEARINGS AND METHOD FOR MANUFACTURING THE SAME. KONRAD WERNER LINDMAN, Stockholm, Sweden, assignor, by mesne assignments, to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden, a Limited Company of Sweden. Filed Apr. 10, 1918. Serial No. 227,617. 2 Claims. (Cl. 64—59.)



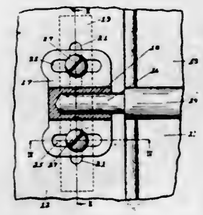
1. A ball holder for ball bearings, consisting of a ring of sheet metal provided at its edge with a plurality of single laps formed integrally with the ring and twisted in such a manner that they extend from the edge of the ring in axial radial direction so that they may lie between adjacent balls of the bearing.

1,346,324. CAR-HOIST. ANDREW H. MCDOUGALL, Harvey, Ill., assignor to Whiting Foundry Equipment Company, Harvey, Ill., a Corporation of Illinois. Filed Mar. 17, 1919. Serial No. 283,104. 4 Claims. (Cl. 254—100.)



1. In mechanism of the class described, a traveling wheeled truck or trolley, a load engaging lifting member provided with wheels only one above the other movable vertically of said truck, a vertical lifting screw located between said wheels and the load engaging portion of the lifting member engaging and propelling said lifting member, means for rotating said screw, a vertical housing, adjacent to the screw inclosing opposite vertical sides of said wheels, in which the lifting member travels positioned to relieve the screw of part of the thrust created when a load is engaged by the lifting member, said three enumerated parts being so mounted on the trolley that the path of travel of that part of the lifting member which engages the load is in approximately the central vertical axis of the truck, and that the center of gravity of the device is inside the wheels of the truck.

1,346,325. HOOD-HINGE SUPPORT. CHARLES W. MCKINLEY, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 29, 1917. Serial No. 199,092. 14 Claims. (Cl. 180—69.)

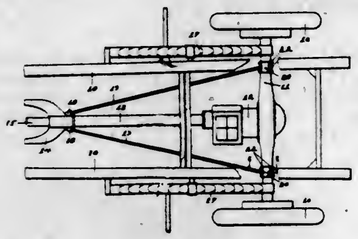


1. In a motor vehicle, the combination with a body, of a hood comprising a plurality of sections connected together by a longitudinally extending hinge; and a support for the pintle of said hinge adjustable longitudinally of the pintle and mounted on said body.

1,346,326. MOTOR-VEHICLE CONSTRUCTION. CHARLES W. MCKINLEY, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 7, 1917. Serial No. 205,972. 2 Claims. (Cl. 280—106.5.)

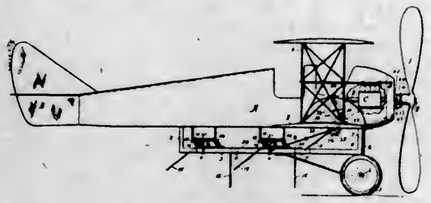
1. The combination with a motor vehicle, having a frame, an axle, and hound rods connecting said frame and axle; of a pair of split sleeves embracing said axle,

adjacent the ends thereof, each of said sleeves being provided with a downwardly projecting boss; a pin adjustably



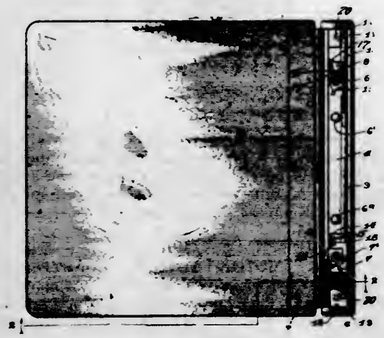
mounted in each boss; and pivotal connections between said pins and the rear ends of said hound rods.

1,346,327. AEROPLANE-DRIVE. HIRAM F. MCNUTT, Richmond, Ind. Filed Dec. 20, 1918. Serial No. 267,581. 4 Claims. (Cl. 244—25.)



1. In combination with a fuselage having a motor carried thereby and a revolving propeller operated by the motor, sets of propellers slidably mounted, under said body, each set moving in a direction opposite to the set next thereto, all of said sliding propellers being adapted to push the body forward when they are moving in one direction and to operate idle when moving in the opposite direction, all of said sliding propellers being adapted to be placed in and out of gear with said motor, and means for placing the revolving propeller into and out of gear with the motor, all substantially as shown and described.

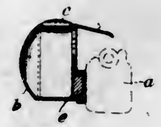
1,346,328. BINDER. FRED L. MANNY, Benton Harbor, Mich., assignor to Baker-Vawter Company, Benton Harbor, Mich., a Corporation of Michigan. Filed Oct. 2, 1917. Serial No. 194,349. 3 Claims. (Cl. 129—12.)



1. In a binder equipped with a pair of posts, post-engaging means comprising a plate member formed with a longitudinal face adapted to receive a lateral thrust, a clamping block arranged to slidingly engage said face of said plate and formed with an inclined face, said block being provided with a stem having a hollow, internally-threaded inner end, a screw rod having a threaded inner end engaging said stem and formed with a shoulder adjacent its outer end, and a second clamping block loosely engaging said screw rod and coöperating with said shoulder and also arranged to slidingly engage said face of said plate member, said screw rod being manually rotatable to draw said clamping blocks toward each other and into wedging engagement between said posts and said longitudinal faces on the plate member.

3. In a binder having a pair of covers and a post-plate equipped with posts attached to one cover, a hollow orificed casing forming the opposite post plate and equipped with inclosed locking mechanism arranged to engage said posts, said casing comprising a longitudinal flanged plate, a flanged cover plate making interlocking sliding engagement with said first-mentioned casing plate, and shouldered corner blocks seated in the ends of said casing and both secured to one of said casing plates to prevent displacement of one plate relatively to the other.

1,346,329. RIFLE. PHIROZESHAW MUNCHERJI MEHTA, Poona, India. Filed June 2, 1919. Serial No. 301,230. 6 Claims. (Cl. 224—0.5.)



1. A device for catching spent cartridges cases as they are ejected from a rifle, comprising in combination, a receptacle having an opening a deflecting plate secured to the said receptacle adjacent the opening, and means for fastening the receptacle to the rifle with the opening adjacent the point of ejection of the cartridges and the deflecting plate above the said point of ejection.

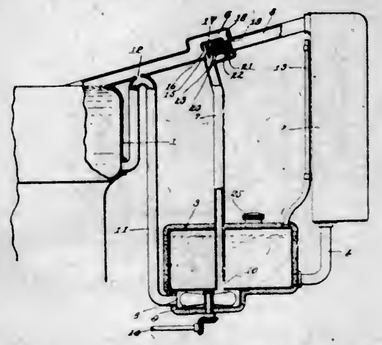
1,346,330. HOSE CONNECTION TO NIPPLES. ERIC C. MITCHELL, Vancouver, British Columbia, Canada. Filed June 30, 1919. Serial No. 307,709. 3 Claims. (Cl. 285—73.)



1. A means for connecting a hose-pipe to its nipple, said means comprising the combination with the hose-pipe and its nipple, of a clamp encircling the outside of the hose-pipe where the nipple is inserted, and bolts with nuts for securing the clamp on the hose-pipe and also for connecting the clamp to a collar secured on the nipple.

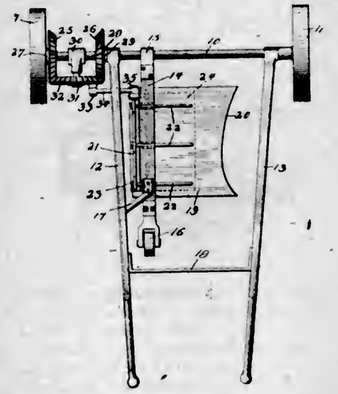
1,346,331. COOLING SYSTEM. WELLINGTON W. MUIR, Lockport, N. Y. Filed July 15, 1919. Serial No. 311,009. 29 Claims. (Cl. 123—174.)

1. In a cooling system for internal combustion engines, a circuit for cooling fluid comprising a jacket, a radiator, normally acting as a condenser, means for maintaining an excess supply of cooling liquid, and means for mixing the fluid from the radiator with said supply and thereby



trapping and condensing the vapor which has passed through the radiator without being condensed.

1,346,332. SUGAR-BEET BLOCKER. SIGFRED NORDENBERG and STEPHEN DONNER, Jennings, Mich. Filed June 16, 1919. Serial No. 304,392. 4 Claims. (Cl. 97—45.)



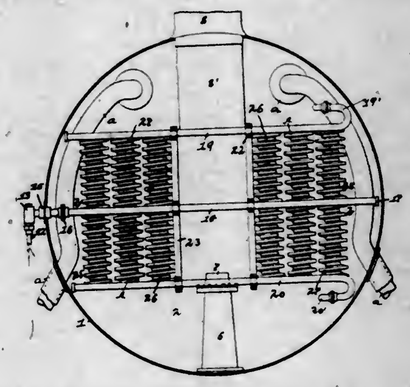
1. In a beet blocker, a frame, a blade, a plurality of guide rods fixed on the blade and slidably engaging the frame for supporting the blade, a supporting wheel for the frame, and a reciprocating connection between the wheel and the blade for sliding the latter during the travel of the machine.

1,346,333. PROCESS FOR PRODUCING ARTICLES OF IRON SILICID. NAPOLEON PETINOT, New York, N. Y. Filed Aug. 18, 1919. Serial No. 318,325. 6 Claims. (Cl. 22—186.)

1. The process of making articles of iron silicid resistant to corrosion, comprising the casting of the alloy in molds made of graphite.

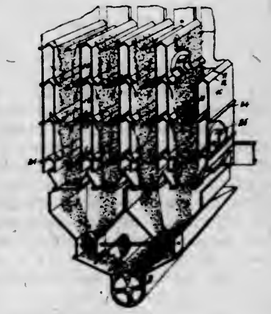
1,346,334. WATER-HEATER FOR BOILERS. PAOLO A. PETRUCCI, Pittsburgh, Pa. Filed Apr. 7, 1919. Serial No. 287,958. 3 Claims. (Cl. 122—426.)

1. A water heating device for steam boilers having a smoke box and smoke flues opening into said box, said device comprising coil members within said smoke box and arranged in upper and lower groups, a main delivery pipe within said smoke box connected to a source of water supply and with the lower portions of the upper groups and upper portions of the lower groups, and discharge pipes in said smoke box connected to the upper portion of the upper groups and lower portions of the lower groups and leading into the water space of the boiler, said



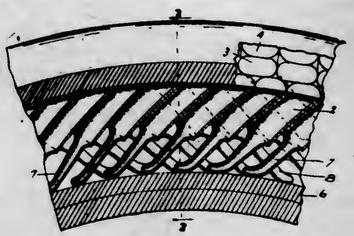
members and pipes adapted to be heated by the products of combustion passing through said smoke flues and smoke box.

1,346,335. GRAIN-DRIER. OLIVER W. RANDOLPH, Toledo, Ohio. Filed Feb. 3, 1919. Serial No. 274,736. 6 Claims. (Cl. 34—34.)



1. In a grain drier, a series of air-ducts arranged in vertical and horizontal rows, the vertical rows being spaced apart to form therebetween grain-columns, said ducts consisting respectively of elongated members having parallel side-walls which converge to form a top, and having at bottom downwardly flaring flanges, said flanges and the subjacent converging tops being spaced apart to form air passages between said ducts and said grain-columns.

1,346,336. VEHICLE-TIRE. RICHARD S. REED, Kokomo, Ind. Filed July 5, 1919. Serial No. 308,795. 4 Claims. (Cl. 152—15.)



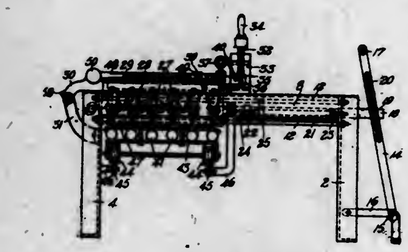
1. A vehicle tire including a central series of air tight cushioning sections, and series of cushioning sections on

opposite sides of the central series and extending obliquely from their inner ends to the tread portion of the tire structure.

1,346,337. DEODORIZING MATERIAL. RUBIC C. ROARK, Chicago, Ill., assignor to U. S. Sanitary Products Corporation. Filed Oct. 23, 1918. Serial No. 259,313. 3 Claims. (Cl. 167—3.)

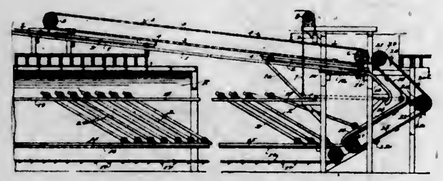
1. As a new article of manufacture, a deodorizing material consisting of a volatile substance in solid cake form having for its base paradichlorbenzol, the substance having the property of evaporating without leaving a residuum when exposed to the air.

1,346,338. CONE-BAKING MACHINE. GEORGE O. ROBINSON, Port Dover, Ontario, Canada. Filed Sept. 19, 1919. Serial No. 324,966. 1 Claim. (Cl. 107—66.)



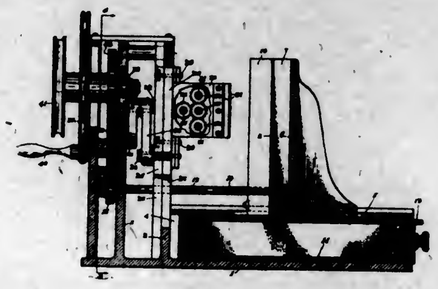
In a machine of the class described, the combination with a suitable frame structure, of a plurality of transverse female die members each comprising one half part of two separate series of female dies and having transverse holes in their end parts, rods rigid with the frame and sleeved through the holes in said members to permit longitudinal movement of the latter in the frame, folding links connecting members means for actuating said members in said movement, a press for securing rigid engagement of said members, a plate hingedly secured to said frame, a plurality of male dies rigid with the plate and adapted to register and engage with said female dies, a press for assuring rigid engagement of the male dies between the female dies, and means for distributing heat to said dies.

1,346,339. MACHINE FOR TRANSPORTING AND DRYING PLASTER-BOARD AND THE LIKE. ORVILLE L. ROUTT, GROVER C. MCCONNELL, and HERBERT L. GLAZE, Los Angeles, Calif., assignors, by direct and mesne assignments, to Plastoid Products, Inc., Los Angeles, Calif., a Corporation of California. Filed Apr. 15, 1919. Serial No. 291,972. 6 Claims. (Cl. 193—2.)



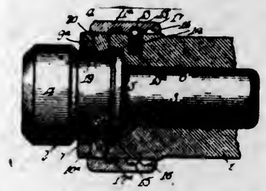
1. Means for moving carriers of the character referred to along a runway one after the other in combination with means for automatically grouping said carriers with their opposite ends of stationary supports at different levels in close overlapping positions.

1,346,340. GRATING DEVICE. STEFANO SANTILLI, Canton, Ohio. Filed Apr. 16, 1920. Serial No. 374,499. 4 Claims. (Cl. 146—15.)



1. A grating device comprising a grater, a reciprocating head and automatic means for simultaneously reciprocating the head across the face of the grater and for feeding the grater toward the head.

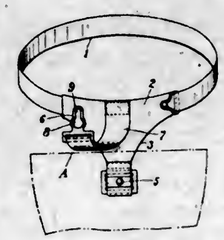
1,346,341. PERCUSSION-TOOL. ALBERT SCHINKEZ, Grand Haven, Mich., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich., a Corporation of Michigan. Filed May 29, 1918. Serial No. 237,206. 1 Claim. (Cl. 121—32.)



In a percussion tool, the combination with a barrel and a tool reciprocable therein, of a ring constructed to fit neatly upon the barrel and having in its inner surface a plurality of depressions disposed in longitudinal relation, the barrel having an aperture and a socket in its wall also disposed in longitudinal relation, two holding members entered in the aperture and socket for holding respectively the ring and, in the normal position of the ring, the tool in operative relation to the barrel, the ring holding member being adapted to engage in certain of the depressions in the ring, and the tool holding member being adapted to engage in certain other of said depressions when the ring is in abnormal position upon the barrel whereby to release the tool holding member, and a spring in said socket permitting the ring holding member to yield whereby to allow movement of the ring longitudinally of the barrel.

1,346,342. GARMENT SUPPORTER AND FASTENER. JOHN K. SEYMOUR, Elyria, Ohio, assignor of one-fifth to Milo H. Stearns and one-fifth to Roscoe W. Kauffman, Elyria, Ohio. Filed Mar. 24, 1919. Serial No. 284,539. 1 Claim. (Cl. 241—6.)

In a garter, a band adapted to pass around the leg of the wearer and comprising an elastic portion and a relatively inelastic portion, a relatively inelastic hanger and an elastic strip superposed over the said hanger, said hanger and said strip being independently supported from the said inelastic portion, a stud on the lower portion of the inelastic hanger, and a clip on the lower portion of the said strip, said clip having a slot with an enlargement at the upper end, said strip and said hanger being of such relative lengths as to require the stretching of only the said elastic strip to bring the said slot enlargement to register with the said stud, said strip and said hanger



comprising freely depending portions sufficiently long to permit a substantial length of the wearer's stocking to lie flat therebetween.

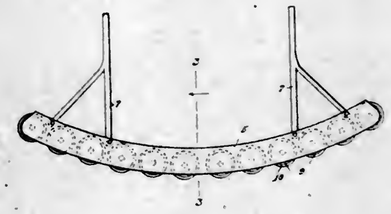
1,346,343. ALLOY OF IRON, CHROMIUM, AND TITANIUM AND PROCESS FOR THE PRODUCTION THEREOF. HUGH C. SICARD, Buffalo, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,331. 4 Claims. (Cl. 75—1.)

1. A method for the production of alloys of iron, chromium and titanium comprising the mixture of chromium ore, futile ore, scrap iron and carbon in sufficient quantity not only to reduce the chromium and titanium oxids present in the ores but enough to combine with the chromium, titanium and iron to form a complex carbid in the finished alloy, and then smelting this mixture in an electric furnace.

1,346,344. METHOD FOR MAKING CHROME-STEEL. HUGH C. SICARD, Buffalo, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,332. 3 Claims. (Cl. 75—1.)

1. An improved process for making chromium steel which consists in adding to molten steel an alloy of iron, chromium, titanium and carbon.

1,346,345. AUTOMOBILE-FENDER. GEORGE W. SINGER, South Bend, Ind. Filed Feb. 28, 1920. Serial No. 361,959. 4 Claims. (Cl. 293—49.)



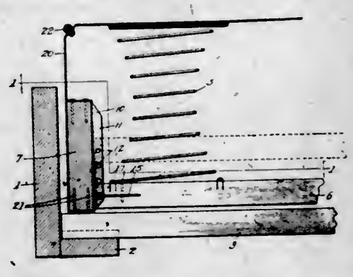
1. A fender of the class described, comprising a frame having spaced bars, rollers having their axes journaled in and adapted to revolve between said bars, and elements in part forming bearings for one end of said axes and adapted to have a constrictive engagement with the bar for securing same in operative position.

1,346,346. TIRE. HARRY A. SIPRELLE, Cleveland, Ohio. Filed Nov. 6, 1919. Serial No. 336,110. 7 Claims. (Cl. 152—14.)



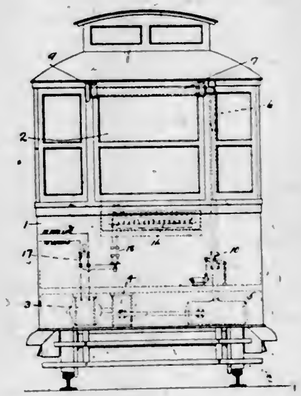
1. A tire having molded therein pairs of ribs, the ribs of each pair being arranged on opposite sides of the central portion of the tire and converging circumferentially of said tire, and blocks removably fitted between said ribs.

1,346,347. SLAT-SUPPORT FOR UPHOLSTERY. MATHIAS STADTLER, Chicago, Ill. Filed Mar. 24, 1919. Serial No. 284,651. 9 Claims. (Cl. 5—29.)



1. A spring cushion for use in furniture, having upholstery springs, side rails for supporting the cushion, flexible means for anchoring the forward end of the springs to the side rails, slats for supporting the springs, and racks mounted on the rails for supporting the ends of the slats, said racks having side wings for preventing motion of the slats lengthwise of the rails, and said slats being adjustable in said rails for varying the tension of the springs.

1,346,348. WINDOW-CLEANING DEVICE. AUGUST SUNDH, Hastings-upon-Hudson, N. Y. Filed Dec. 30, 1918. Serial No. 269,019. 6 Claims. (Cl. 20—40.5.)



1. A window-glass cleaning device comprising means for heating the surface of the glass and means for imposing a blast of compressed air upon the heated surface to clean the same.

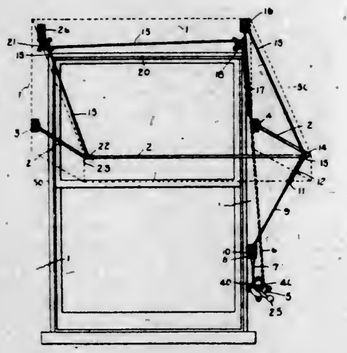
1,346,349. ABSORBING AND PURIFYING COMPOSITION. JOHN C. TATE, Oakland, Calif. Filed Sept. 21, 1916. Serial No. 121,482. 18 Claims. (Cl. 252.)

13. A composition for purifying gaseous products of combustion comprising lime, clay, charcoal and a binder.

1,346,350. ELECTRICAL WELDING PROCESS. EARL A. TAYLOR, Buffalo, N. Y., assignor to Maxwell Motor Co., Inc., Detroit, Mich., a Corporation of Delaware. Filed May 20, 1920. Serial No. 382,925. 5 Claims. (Cl. 219—8.)

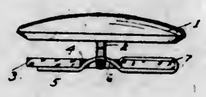
1. A process of electric welding consisting in forming a succession of dead short circuits between the work and a filling in electrode under a voltage sufficiently low to avoid appreciable arcing, and the development of sufficient localized heat by each of said short circuits to weld a small portion of the electrode to the work.

1,346,351. AWNING DEVICE. HENRY E. THOMPSON, Newark, N. J. Filed May 21, 1919. Serial No. 298,608. 5 Claims. (Cl. 156—44.)



5. In a hoisting means for awning frames, the combination of a spindle; means comprising a sprocket wheel on said spindle for receiving and moving a flexible connection; a handle for turning said spindle; a locking star wheel rigid with said handle the adjacent walls of any two adjacent teeth of the said wheel being at right angles to each other; and a pair of opposed gravity dogs having finger holds for moving the same in opposite directions, and having a pair of weighted holding members for positively engaging a pair of said teeth and thereby preventing said handle from turning in either direction, substantially as described.

1,346,352. BUTTON-FASTENER. DANIEL E. TWEEDDALE, San Francisco, Calif., assignor of one-half to Joseph Chiodo, San Francisco, Calif. Filed Feb. 25, 1920. Serial No. 361,307. 3 Claims. (Cl. 24—90.)



1. A button fastening, comprising, in combination, a washer of flexible material, adapted to surround the eye of a button, and a wire having a loop adapted to engage the eye of a button, and its ends adapted to engage the said washer.

1,346,353. HEAT AND VAPOR BATH CABINET. EDGAR B. ULLMAN, EUGENE B. SIMMONDS, and ARTHUR F. ATKINSON, Muncie, Ind.; said Simmonds assignor of all his right to said Atkinson. Filed Sept. 16, 1918. Serial No. 254,354. 3 Claims. (Cl. 219—43.)



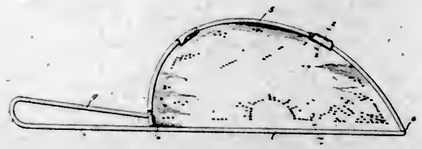
3. In an applicator a vapor generator and heater comprising a receptacle, a heating unit erected within the receptacle and having an outlet only through the bottom of the receptacle, energizing conductors leading into the compartment through the opening in the bottom, a heat insulating cover member positioning over the top of the receptacle, a conduit forming communication between the receptacle and the applicator, and means to introduce water into the receptacle without removing the insulating cover.

1,346,354. SUPPORT FOR WINDOW-BLIND ROLLERS, CURTAINS, VALANCES, AND THE LIKE. HENRY UMPHREY, Carleton Place, Ontario, Canada, assignor of one-third to Elmer Donald Benjamin Robertson and one-third to Harry David Humphrey, Ontario, Canada. Filed Mar. 12, 1920. Serial No. 365,182. 4 Claims. (Cl. 156-23.)



4. A support of the class described comprising a bar, a bracket adjustably mounted on the bar and having means for securing the bar to a window frame, a second bracket adjustably mounted on the bar and having a roller supporting member and an upwardly extending arm, the said arm having a projection on its rear edge and a shoulder on its front edge adjacent to the roller supporting member, and a third bracket having a guide means coacting with the vertically disposed arm and engaging with the projection and a shoulder coacting with the said shoulder, the last said bracket being designed to support curtain supporting means.

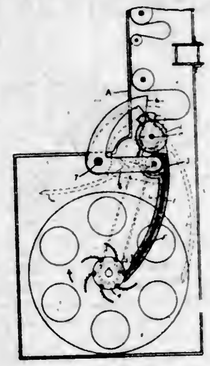
1,346,355. KETTLE-DRAINER. JULIUS H. WALD, Chicago, Ill. Filed Aug. 25, 1919. Serial No. 319,606. 6 Claims. (Cl. 53—8.)



1. A kettle drainer comprising a strainer portion to fit over the top of a kettle, and having an edge curved to conform to the edge of the kettle and a handle portion extending laterally from one side of the strainer portion,

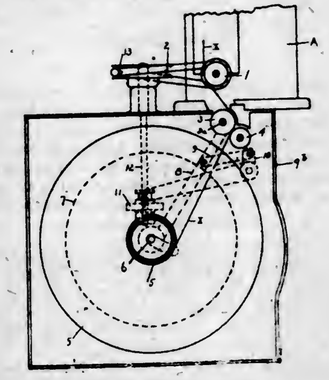
and means for positioning said strainer portion with respect to the kettle, regardless of which side of the strainer portion is applied to the kettle.

1,346,356. AUTOMATIC REEL-THREADING DEVICE. WILLIAM WENDERHOLD, New York, N. Y., assignor to Cru Patents Corporation, a Corporation of New York. Filed July 20, 1915. Serial No. 40,985. 4 Claims. (Cl. 88—17.)



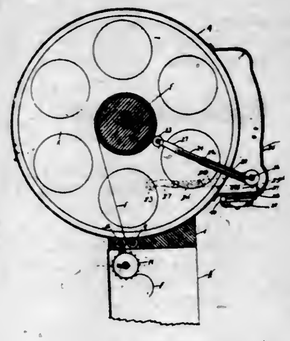
1. In a film winding device, a reel, driving means therefor, projections on the hub of said reel to engage a film during rotation, and a film guide extending into said reel near said hub to deliver a film to the hub, and means controlled by the film to move said guide away from said reel when the film is being wound on said reel, automatically and substantially as described.

1,346,357. VARIABLE-SPEED MECHANISM. WILLIAM WENDERHOLD, New York, N. Y., assignor to Cru Patents Corporation, a Corporation of New York. Filed July 20, 1915. Serial No. 40,986. 5 Claims. (Cl. 242—55.)



1. In a film winding device having a variable speed drive controlled by the weight of the film reel consisting of a rotatable film reel support carried by a pivotally mounted lever, a friction disk mounted on said reel support, a friction pulley in contact with said disk, a lever secured to said pulley to control the position of the same, said lever being operatively connected with the first mentioned lever and said first mentioned lever being operated by the weight of the film reel substantially as described.

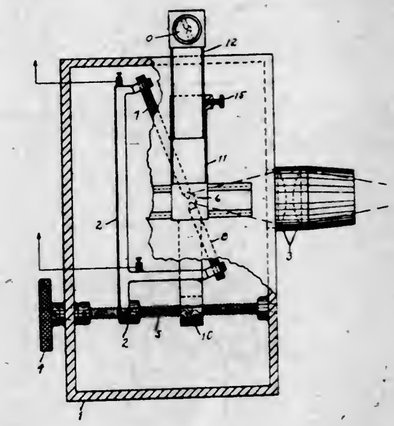
1,346,358. SIGNAL DEVICE FOR KINETOSCOPES. WILLIAM WENDERHOLD, New York, N. Y., assignor to Cru Patents Corporation, a Corporation of New York. Filed Jan. 13, 1916. Serial No. 71,860. 7 Claims. (Cl. 33—169.)



1. The combination with a film roll, a supporting structure therefor, a roller adapted to contact with the film on said film roll, a support for said roller, an arm pivotally carried by the supporting structure, means for adjustably attaching said roller to said arm, a signal device, and means controlled by the movement of said arm for actuating said signal device.

7. In a motion picture apparatus means to indicate the approaching termination of the film supply from a film roll said means comprising a film reel, a support for said reel, a member pivotally mounted on said support, a roller carried at the end of said member and adapted to bear against the periphery of the film roll during the revolution of said roll, said member being adapted to move past and out of contact with the periphery of said roll when the roll has been reduced to a pre-determined diameter, a signal indicating device, and means operated by the movement of said member past the periphery of said roll for actuating said signal indicating device.

1,346,359. PROJECTION-LAMP HOUSE. WILLIAM WENDERHOLD, New York, N. Y., assignor to Cru Patents Corporation, a Corporation of New York. Filed Apr. 9, 1917. Serial No. 160,882. 7 Claims. (Cl. 88—24.)



1. In a projection lantern, a movably mounted source of light, and means for moving the same, in combination

with a device for observing the light source, said device being mounted and maintained in fixed relation to the light source and movable coincidentally therewith.

1,346,360. LUMINOUS MARKING DEVICE. CHARLES EUGENE WHITE, Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 1, 1919. Serial No. 327,632. 13 Claims. (Cl. 240—1.)



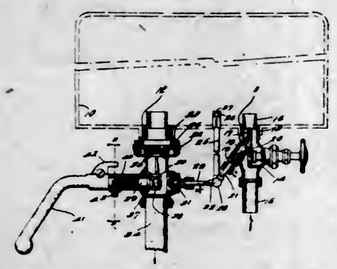
6. In a device of the character described, the combination of a transparent sheet, a film applied to the rear of said sheet and having a cut out portion, forming a shallow recess, a body of self-luminous material in said recess, means for supporting said material, adhesive means for attaching said device to a supporting surface and means for holding said sheet, material supporting and adhesive means in assembled relation.

1,346,361. PEDAL EXTENSION. FRANK LESTER WILLIAMS, Detroit, Mich. Filed Dec. 17, 1917. Serial No. 207,534. 2 Claims. (Cl. 74—81.)



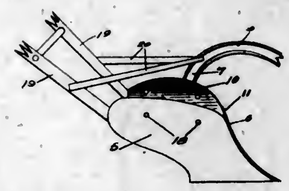
2. A pedal attachment comprising a member recessed to provide opposing walls adapted to overlie the opposite faces of a normal pedal with the upper wall of greater length than the lower wall, said walls being joined to produce a stop formation at the bottom of the recess, a threaded element carried by the upper wall adjacent its outer end and adapted to engage the upper face of the normal pedal, and an extension carried by the upper wall and projecting therefrom at a point intermediate the stop formation and said element, said extension carrying a pedal face extending in approximate parallelism with the normal pedal face and spaced therefrom.

1,346,362. FLUSHING SYSTEM. CHARLES A. WULF, Indianapolis, Ind. Filed Dec. 28, 1917. Serial No. 209,244. 6 Claims. (Cl. 4—5.)



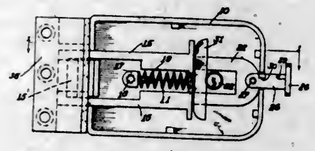
1. A flushing system, comprising an air-tight tank having a water-supply inlet and a valved discharge outlet, an air injector associated with said water-supply inlet, said air injector having a restricted air inlet opening and a separate opening to the valved discharge outlet on the discharge side of the valve thereof, and a check valve associated with said separate opening for permitting outflow of fluid to the valved discharge outlet and preventing inflow of fluid from such valved discharge outlet.

1,346,363. EXTENSION-MOLDBOARD. AARON L. YORK, Jr., Liberty, N. C. Filed Sept. 22, 1919. Serial No. 325,330. 3 Claims. (Cl. 97—18.)



1. In combination with a plow beam, and a stationary mold board having a beveled upper edge, a removable mold board incldlng a member having a beveled lower edge coöperting with the beveled upper edge of the stationary mold board, a wedge shaped block carried by the removable mold board, said wedge shaped block adapted to be wedged between the plow beam and stationary mold board, for preventing lateral displacement thereof with relation to the stationary mold board, and means carried by the removable mold board and having connection with the plow for securing the removable mold board against vertical displacement.

1,346,364. BURGLAR-PROOF LOCK. ANDREW YUROW, New York, N. Y. Filed Jan. 13, 1920. Serial No. 351,102. 4 Claims. (Cl. 70—46.)



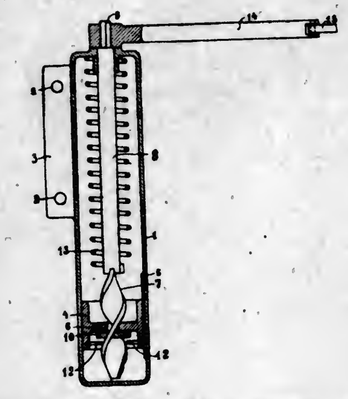
1. A block comprising a casing, a bolt therein comprising a skeleton frame adapted to engage a keeper upon inward movement of the bolt in the casing, a spring normally pressing said bolt inwardly, a key actuated lever for moving said bolt outwardly, and a latch pivotally secured to said bolt and projecting through the casing and adapted to hold the bolt in either locked or unlocked position.

1,346,365. METHOD FOR THE DECOMPOSITION OF ALKALI-METAL MINERALS. EINAR BERGVE, Notodden, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway, a Joint-Stock Company of Norway. Filed Apr. 30, 1919. Serial No. 293,876. 2 Claims. (Cl. 23—22.)

1. The method of decomposing alkali metal silicates, which consists in subjecting the silicate to the action of sulfur vapors at temperatures of about 800° to 1400° C.

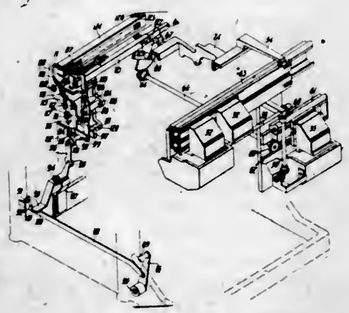
1,346,366. AUTOMATIC DOOR-CLOSER. HELGE LINUS CLAESSON, Gottenborg, Sweden. Filed Dec. 22, 1916. Serial No. 138,364. 11 Claims. (Cl. 16—46.)

1. In a device of the character described, in combination a casing, an apertured piston movable axially within said casing but prevented from rotation therein, a threaded member within said casing co-acting with said piston, said member and casing being relatively rotatable to effect axial movement of said piston, and valve means on said threaded



member operating in one direction of movement thereof to open the aperture in the piston, and in the other direction of movement thereof to close said aperture.

1,346,367. COMBINED TYPEWRITING AND COMPUTING MACHINE. CLIFTON B. CORELL, New York, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1918. Serial No. 263,481. 20 Claims. (Cl. 235—59.)



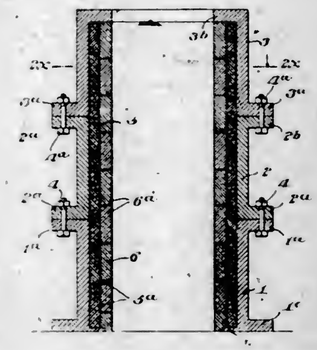
2. In a typewriting machine, the combination with a pair of bars, each carrying a series of settable stops, of a stop-setting device for each of said series, including a movable member through which the device is actuated, an actuating piece mounted so that movement in one direction will effect actuation of one of said movable members, and movement in another direction will effect actuation of the other of said movable members, and means, including a lug on one of said movable members, whereby actuation of said lug-carrying member will effect actuation of the other.

1,346,368. ELECTRIC CIGAR-LIGHTER. CHARLES F. CUNO, Meriden, Conn. Filed Mar. 8, 1920. Serial No. 364,260. 6 Claims. (Cl. 175—296.)



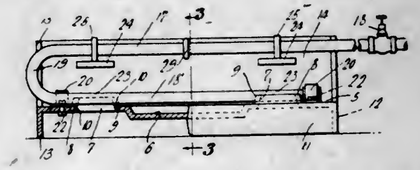
4. A holder and guard for the purposes described, comprising a cylindrical socket having one or more angular slots intersecting its outer edge, a contact terminal in said socket, a translating device having a contact terminal at its rear arranged to coöperate with the first mentioned contact terminal, said translating device being surrounded by a sleeve slidably fitting within said socket, said sleeve having a projection arranged to interlock with said angular slot to hold said translating device in operative position with the contacts in engagement, a guard including a flanged guard portion, and a contracted cylindrical portion arranged to slide on the outer side of the aforesaid socket with a lug on the inner side of said contracted portion arranged to interlock in the angular slotted portion of the socket.

1,346,369. INGOT-MOLD. JOHN A. DRAIN, Philadelphia, Pa. Filed Jan. 13, 1920. Serial No. 351,218. 6 Claims. (Cl. 22—139.)



1. An ingot mold having a lining of refractory material and an inner lining of heat insulating material.

1,346,370. COAL-OIL GENERATOR. HENRY GASTON EPPS, Waco, Tex. Filed Sept. 9, 1919. Serial No. 322,616. 1 Claim. (Cl. 158—63.)

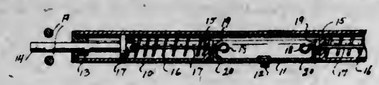


In a burner, a base, flanges depending from the base to provide supports for the base, one of said flanges being cut away to provide an air passageway, said base being provided with an opening adjacent each end thereof, and having a depressed portion providing a receptacle, the depressed portion being substantially long, the ends thereof terminating at points adjacent the openings, a rear wall formed integral with the base, said rear wall having integral end walls, a supporting arm having an eye formed at one end thereof, means for securing the opposite end of the supporting arm to the rear wall, a pipe extending through the eye of the supporting arm, means for securing a portion of the pipe to the base, and said pipe having burner openings.

1,346,371. AUTOMOBILE-LOCK. THEODORE C. FISCHER, Philadelphia, Pa. Filed Apr. 23, 1919. Serial No. 292,078. 8 Claims. (Cl. 70—90.)

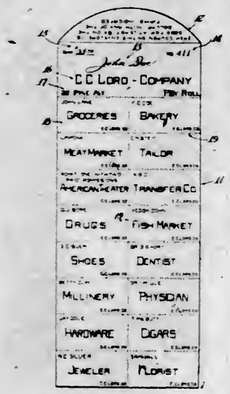
8. A locking device for automobiles comprising a tubular casing having an open end, a bolt longitudinally shiftable within the casing and projectible from its open end into

engagement with an automobile wheel, a spring in the casing urging the bolt to a projected position, a door



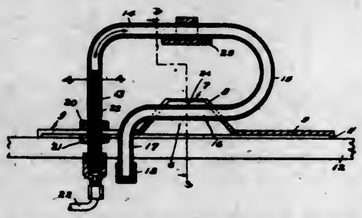
forming part of the casing and giving access to the inner end of the bolt whereby the bolt may be retracted, and means for locking said door in a closed position.

1,346,372. PAY-ENVELOP. ROBERT E. FISHER, and WILLIAM M. YORK, Long Beach, Calif; said Fisher assignor to said York. Filed Dec. 16, 1916. Serial No. 137,459. 1 Claim. (Cl. 283—1.)



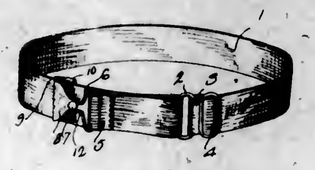
A pay envelop adapted to contain an employee's wages; and a plurality of coupons formed in the body of the envelop, each coupon having plainly marked thereon a symbol identifying a merchant who has agreed to accept same as part payment in trade, and each coupon bearing a symbol serving to identify the employee originally issuing the envelop; said envelop also bearing symbols indicating that said coupons will be accepted by said merchants.

1,346,373. OIL-BURNER. CHARLES A. HART, Seattle, Wash. Filed Dec. 13, 1919. Serial No. 344,702. 3 Claims. (Cl. 158—64.)



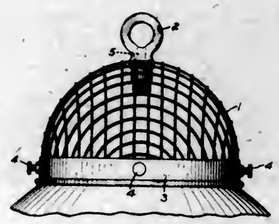
1. An oil burner comprising a flat base having a slot extending from one end thereof inwardly and provided with a hollow portion of truncated pyramidal shape that projects above the upper surface thereof said hollow truncated portion being open at its top end and having two of its oppositely disposed walls notched from the top downwardly, and a burner pipe comprising a U-shaped coil arranged in a vertical plane with its lowermost side resting in said notches and its two ends bent downwardly and projecting through the slot in said base, the lowermost side of said U-shaped coil having an upwardly directed gas outlet perforation located centrally of said hollow truncated portion.

1,346,374. ARMBAND. ARTHUR L. HERRMANN, Detroit, Mich. Filed Dec. 23, 1918. Serial No. 268,115. 3 Claims. (Cl. 241—5.)



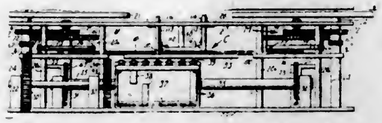
3. In an arm band or garter, the combination of an elastic body band, means for adjusting the operative length of said band, a stud carried by one end of the body band, and an eye adjustably carried by the body band and arranged to engage said stud.

1,346,375. GLOBE OR SHADE HOLDER FOR ELECTRIC LAMPS. JOHN C. HOLLINGS, Boston, Mass. Filed July 28, 1919. Serial No. 313,915. 5 Claims. (Cl. 240—115.)



1. A globe or shade holder for electric lamps comprising a wire mesh frame, a shade-attaching rim secured to the edges of said frame and supporting means located at a mid portion of said frame.

1,346,376. PHONOGRAPH-DRIVING MECHANISM. ORLANDO E. KELLUM and SIDNEY A. MURDOCK, Los Angeles, Calif.; said Murdock assignor to said Kellum. Filed July 31, 1917. Serial No. 183,707. 13 Claims. (Cl. 74—38.)

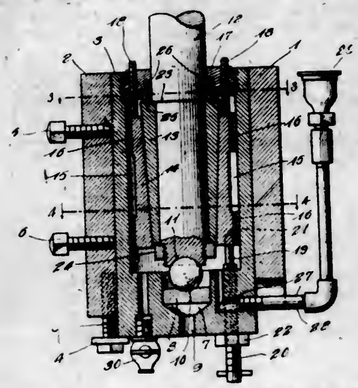


1. In combination, a plurality of driving mechanisms each with a driven shaft, a constantly running means connectible to either of said mechanisms, mechanical means in positive coöperation with the driving mechanisms to bring the driven shaft up to speed, and control means to control connection of the driving mechanisms with the constantly running means.

1,346,377. SELF-OILING METAL BEARING. NORTON W. KINNEY, Haverhill, Mass. Filed June 19, 1919. Serial No. 305,414. 3 Claims. (Cl. 64—49.)

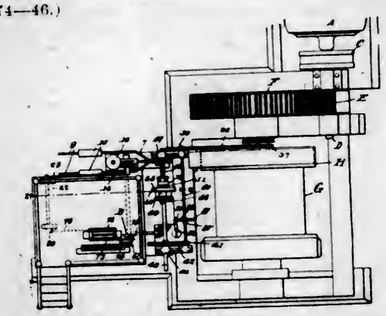
2. In a vertical spindle bearing, an outer shell, a vertical cup mounted in said shell for vertical adjustment, means for holding said cup in adjusted position, an anti-friction ball-bearing in the lower end of said cup, a vertical spindle resting on said ball-bearing, a downwardly tapered sleeve carried by said spindle, a bushing in said cup having a tapered bore rotatably receiving said tapered sleeve, means for raising said bushing to compensate for

wear, a circular nut threaded into the upper end of said cup, a washer carried by the lower side of said nut and contacting with the upper end of said sleeve, and a set



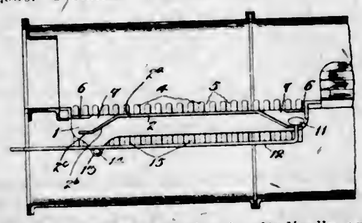
screw threaded through said nut and bearing against the upper end of said bushing to clamp the same tightly against said raising means.

1,346,378. STOP MECHANISM. DANIEL F. LEPLEY, Connellsville, Pa. Original application filed Sept. 19, 1917, Serial No. 192,162. Divided and this application filed July 9, 1918. Serial No. 244,071. 3 Claims. (Cl. 74—46.)



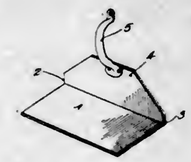
1. In apparatus of the class described, the combination with a hoisting drum, an electric motor for driving the same, and a controller, of normally inactive means for imparting a step by step movement to the controller to cut off the current to the motor, a clutch member operatively connected to said normally inactive means, a movable clutch member receiving motion from the motor, and means for automatically feeding the revoluble clutch member into engagement with the other clutch member after a predetermined number of revolutions of the drum.

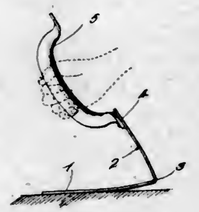
1,346,379. STOKING APPARATUS. NAOSABURO MINORIKAWA, Tokyo, Japan. Filed May 7, 1917. Serial No. 166,936. 5 Claims. (Cl. 126—173.)



1. A grate bottom comprising longitudinally arranged bars spaced apart having flanges on their opposing sides, and removable sections arranged at right angles to the grate bars, in the spaces between the grate bars and bearing on and supported by said flanges.

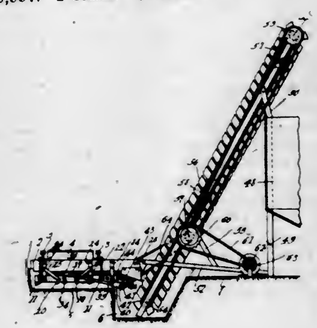
1,346,380. DUSTPAN. FIELDS J. MORRIS, Durango, Colo. Filed Apr. 28, 1919. Serial No. 293,114. 2 Claims. (Cl. 65—20.)





1. A dust pan comprising a substantially rectangular piece of resilient sheet metal bent at right angles at approximately its longtiudinal center to form a flat bottom capable of springing upwardly at its rear edge, and a vertical wall of considerable height capable of springing forwardly at its upper end, said upper end having its corners cut away, a handle secured centrally to the upper edge of the wall and rising vertically therefrom, said handle providing means for bending the wall forwardly to force the front edge of the bottom into contact with the floor.

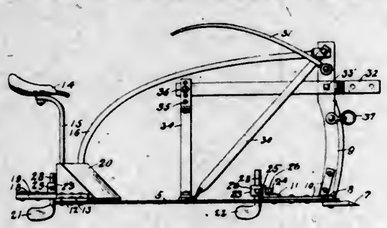
1,346,381. COMBINATION LOADER AND UNLOADER. CHARLES A. PERFECT, Sunbury, Ohio. Original application filed Oct. 20, 1916, Serial No. 126,739. Divided and this application filed Aug. 22, 1918. Serial No. 250,997. 1 Claim. (Cl. 193—48.)



In a device of the class described, an approximately horizontal feeder including a reciprocating element; a conveyer frame; first shafts journaled at the ends of the frame; a bucket conveyer carried by the shafts and extended beneath the delivery end of the feeder; a drive shaft journaled in the frame between the first shafts; means for operatively connecting the drive shaft with the reciprocating element

of the feeder independently of the bucket conveyer; a belt connection between the drive shaft and one of the first shafts, the belt connection being independent of the bucket conveyer; and means for operating the drive shaft.

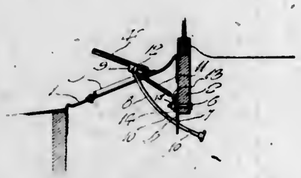
1,346,382. BRUSH-CUTTER AND GROUND-EVENER. FRANK POMIJE, New Prague, Minn. Filed July 10, 1919. Serial No. 309,894. 7 Claims. (Cl. 55—60.)



1. The combination of a pair of substantially horizontal blades having their cutting edges diverging rearwardly, a substantially vertical cutting blade having its lower end rigidly united with the front ends of said horizontal blades, a tongue-member pivotally connected to said vertical blade, and a pair of struts secured to and converging upward from said horizontal blades and being adjustably secured to said tongue member.

3. The combination of a pair of substantially horizontal and forwardly movable cutting blades joined together at their front ends and diverging rearward, and a vertically and angularly adjustable ground penetrating guiding blade having its lower end subjacent to said cutting blades, whereby the operation of said cutting blades can be controlled substantially as described.

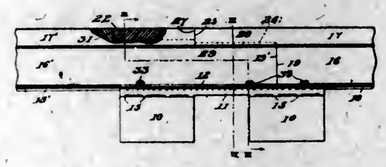
1,346,383. AUTOMOBILE-VENTILATOR. JOHN W. RAAB and RILEY EDWARDS, Maquoketa, Iowa. Filed Apr. 12, 1920. Serial No. 373,199. 1 Claim. (Cl. 98—22.)



The combination with a dashboard and a windshield cowl, the latter being provided with an opening, of a frame secured to the cowl and surrounding the opening, a door hinged to the rear portion of the frame, being adapted to be swung upwardly to admit air, a plate secured to and depending from the dashboard, the depending portion thereof being apertured, an arcuate door operating rod, having pivotal connection at one of its ends with the door, the opposite end thereof extending through the aperture in the plate and having this portion formed with notches which interlock with the aperture, and a coiled spring, connected at one of its ends with the door and at its other end with the plate.

1,346,384. JOINT AND CHAIR FOR RAILWAY-RAILS. GEORGE E. RIGHTNOUR, Kearney, Pa. Filed May 12, 1920. Serial No. 380,748. 4 Claims. (Cl. 238—235.)

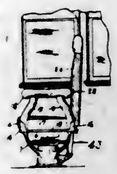
1. A joint for rail ends comprising a rail having the web and base flanges thereof cutaway at one end of the rail and with the tread extended with a central longitudinal slot in the bottom of the extended tread portion of the same width as and terminating adjacent the end face of the web, a tongue at the end of said tread extension of less thickness than such extension and cut away in different vertical planes at its opposite sides forming shoulders out of alinement with each other, the tongue having an oval-shaped terminal head of tapered formation, a complementally formed adjacent rail end having its tread cutaway with a receiving recess in the top thereof for said tongue and head with abutting portions of said shoulders and with the web portion of said shoulders and with the web portion upwardly extended positioned within the said slot when the joint is assembled.



1,346,385. PROCESS OF MAKING LEATHER. ALLEN ROGERS, Brooklyn, N. Y. Filed May 5, 1920. Serial No. 379,050. 4 Claims. (Cl. 149—6.)

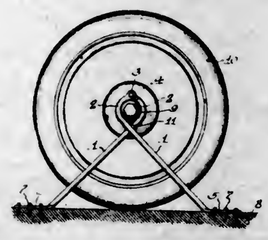
1. In the conversion of hides and skins into leather, the process which comprises submitting the material to a mineral tanning operation and then to a treatment with shark liver oil.

1,346,386. PEDESTAL CAR-SEAT. FRANK SMOLAR, Dayton, Ohio. Filed Sept. 29, 1919. Serial No. 327,040. 10 Claims. (Cl. 155—96.)



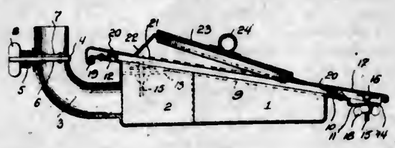
1. In a device of the type described, the combination with a pedestal, of a sleeve surrounding said pedestal and rotatable around it, a car seat supported by said sleeve, and stationary horizontal means removably insertible in said pedestal above the sleeve, to prevent the latter from working above the pedestal.

1,346,387. HOLDDOWN APPLIANCE. REUBEN B. STIPES and JOSEPH DE FRAIN, Flint, Mich. Filed Mar. 8, 1920. Serial No. 363,956. 3 Claims. (Cl. 248—41.)



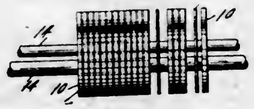
1. A hold-down appliance for automobiles comprising diverging leg members having hook-shaped ends pivotally connected together so as to form a loop when said leg members are crossed, and means adapted for fixing said leg members when crossed.

1,346,388. SANITARY BEDPAN. EDWARD W. STOLER and HOWARD TREASE, Mansfield, Ohio. Filed June 26, 1919. Serial No. 306,978. 2 Claims. (Cl. 4—19.)



1. A bed pan made of metal and comprising a receptacle having a rear offset portion, said receptacle having an inclined overhanging top wall, an elbow communicating with the rear offset portion of said receptacle, means for closing said elbow, an inclined main cover hinged at the rear edge of the overhanging top wall, said main cover including an auxiliary cover carried by said main cover and disposed at an angle thereto, and means carried by the front edge of said overhanging top wall and by the side edges thereof adjacent the rear edge of said top wall adapted to be swung into engagement with said top wall and fixed relative thereto so as to hold said main cover on said receptacle.

1,346,389. PROCESS OF MAKING CUSHION-TIRES. FRED W. STRANG, Dallas, Tex., assignor to Gibraltar Tire & Rubber Company, Dallas, Tex., a Common Law Company having as its trustees Fred W. Strang, Justin C. Daspit, and Joseph C. Sloan, Dallas, Tex. Filed Sept. 8, 1919. Serial No. 322,325. 4 Claims. (Cl. 154—12.)



1. The process of making cushion tires which includes forming a plurality of rubber-fabric blanks, then assembling said blanks with alternate blanks of rubber therebetween, then forming a core by subjecting the blanks to a considerable pressure and vulcanization, and then disposing the core in a circular shape and vulcanizing a rubber jacket around the core.

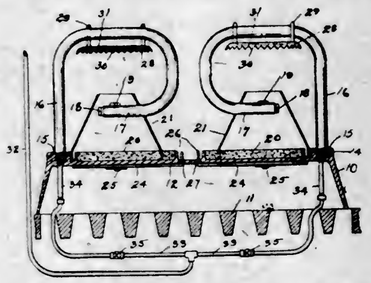
1,346,390. APPARATUS FOR GATHERING AND CONVEYING MATERIAL. FRANCIS LEE STUART, New York, N. Y. Filed Aug. 18, 1919. Serial No. 318,391. 10 Claims. (Cl. 193—8.)



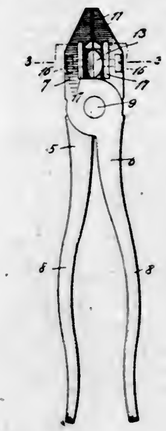
1. Apparatus for gathering and conveying material, comprising a conveyer for the material and a plow delivering thereto provided with a top plate over which the material passes to the conveyer, inclined from its outer edge inwardly and downwardly by the side of the conveyer belt and also from its front edge upwardly and inwardly toward the side of the conveyer belt.

1,346,391. OIL-GAS BURNER. JAMES O. TAYLOR, Providence, R. I. Filed Nov. 29, 1918. Serial No. 264,548. 2 Claims. (Cl. 158—64.)

1. In an oil gas burner, a hollow base having a draft opening through its top plate, a substantially P-shaped burner pipe secured to said top plate near one end thereof, a cone-shaped mixing chamber over said opening and into which the jet end of said pipe extends, and the walls of said chamber being spirally corrugated.



1,346,392. PLIERS. RICHARD WHITAKER, Jr., New Brunswick, N. J., assignor to Manufacturers Iron & Steel Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Mar. 8, 1919. Serial No. 281,462. 3 Claims. (Cl. 7—3.)



1. A pair of side cutting pliers comprising a pair of jaws, handles by which the jaws may be manipulated, a removable cutter for each jaw consisting of a thin flat base and a cutting edge formed at substantially right angles thereto, said base being of substantially uniform thickness except where the cutting edge is formed and being prolonged at one side beyond the end of the cutting edge to form a tongue, and recesses in the opposed faces of the jaws to receive the cutters, each recess being provided with a groove to receive the tongue of a cutter.

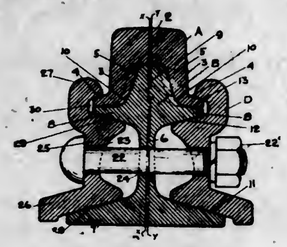
1,346,393. PEN OR PENCIL CLIP. GEORGE WOODHOUSE, Butte, Mont. Filed Oct. 20, 1919. Serial No. 331,881. 4 Claims. (Cl. 24—81.)



1. An article of manufacture comprising a clip consisting of a piece of metal bent back upon itself at one side

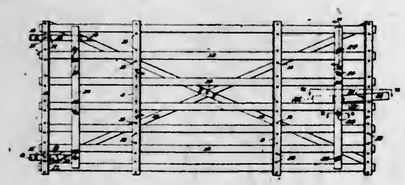
and then rebent to provide a clamp, the metal at the other side being rolled over toward the clamp to form a holder for a pencil or the like.

1,346,394. COMPOUND RAIL. JAMES K. BOYD, Wilkinsburg, Pa. Filed Apr. 7, 1920. Serial No. 372,020. 4 Claims. (Cl. 238—143.)



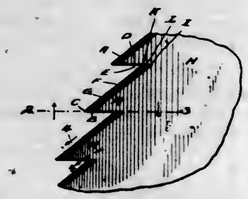
4. In a compound rail, the combination of a girder member and a head member, detachably secured together, said girder and head being so constructed and fitted that the end surface of the head of one rail will abut the end surface of the girder member of an adjoining rail to prevent creeping of said head with relation to said girder.

1,346,395. FENCE-GATE. WILLIAM L. BUTCHER, Flora, Ind. Filed Dec. 2, 1919. Serial No. 341,871. 4 Claims. (Cl. 256—73.)



1. A device of the class described comprising spaced pairs of connected bars, rail slats freely slidable between the bars of each pair and means independent of said bars and anchored relative thereto for holding said bars and the rail slats relatively immovable.

1,346,396. GIN OR LINTER SAW. ROBERT H. BUTTERS, Atlanta, Ga., assignor to The Butters-Camp Mfg. Co., a Corporation of Georgia. Original application filed Nov. 28, 1916, Serial No. 133,923. Divided and this application filed Mar. 6, 1917, Serial No. 152,894. Renewed Dec. 3, 1919. Serial No. 342,304. 11 Claims. (Cl. 13—14.)

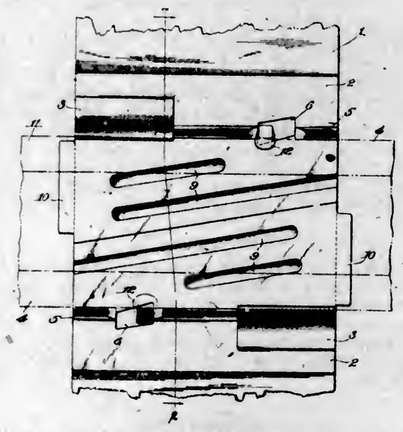


2. A linter saw whose teeth have each side faces in the planes of the sides of the saw and a base provided with a terminal point and parallel lateral cutting edges in the planes of said side faces, said cutting edges tapering toward said terminal point from other points slightly in the rear thereof.

1,346,397. COMPOSITION AND PROCESS OF MANUFACTURE. JOHN F. CAVANAGH, Meriden, Conn., assignor to Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed Mar. 7, 1919. Serial No. 281,102. 11 Claims. (Cl. 106—31.)

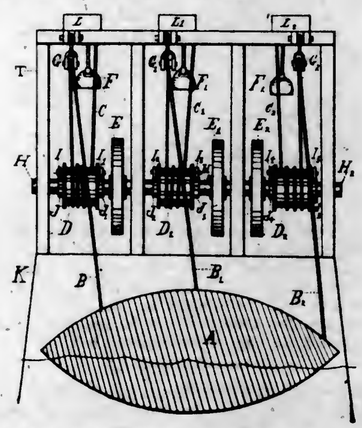
2. A composition in fine granular form and adapted for cold molding and comprising a finely divided mixture of an inert substance about 83%, a drying oil about 10% and an asphaltic substance about 7%.

1,346,398. RAIL-ANTICREEPER TIE-PLATE. WILLIAM H. CLEVELAND, Wellington, Kans. Filed July 7, 1919. Serial No. 309,028. 3 Claims. (Cl. 238—291.)



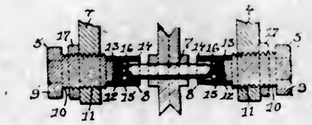
2. In a rail gripping means, the combination of a tie plate formed of two members each having a jaw arranged on one side thereof, a flange on said side, a downwardly extending tie engaging portion on the end of each member and a tongue and groove provided in each member that are engaged by the tongue and groove of the other member and so constructed and arranged that movement longitudinally of a rail that normally rests on the members, will cause wedging of the jaws of each member and the rail base.

1,346,399. WAVE-ENERGY MOTOR. WILLIAM A. CRAWFORD-FROST, Baltimore, Md. Filed Jan. 28, 1920. Serial No. 354,743. 1 Claim. (Cl. 253—8.)



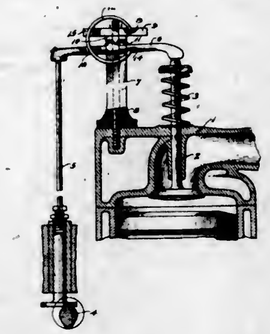
In a wave energy motor, in combination, a plurality of piers, a long, narrow float having narrow ends located between each two adjacent piers and positioned with its broadside presented to the incoming waves, a plurality of slack cables mooring the narrow ends of said float to said piers, a unitary tower structure upon each pier, said structures being independent of each other, shafts supported by said piers, power cables attached to said floats, and transmission mechanism supported by said structures whereby said power cables rotate said shafts upon movement of said floats.

1,346,400. SEMISPHERICAL BALL-BEARING STRUCTURE. GEORGE WILLIAM DOVER, Cranston, R. I. Filed Nov. 25, 1919. Serial No. 340,598. 2 Claims. (Cl. 64—49.)



1. A semi-spherical ball-bearing structure comprising a screw having a reduced and hardened end portion terminating into a flat hardened end, a hardened collar over the reduced end of the screw and extending beyond the end of the screw, said screw end and collar forming a raceway, a row of balls in the raceway, a shaft having a semi-spherical end engaging with the row of balls, means for supporting the screw, means for adjusting the screw and means for locking the screw in the adjusted position.

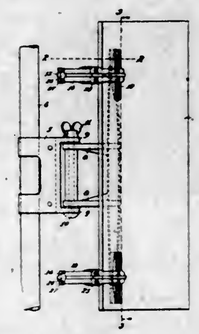
1,346,401. VALVE-ACTUATING MECHANISM. WARREN E. ELLIS, Lebo, Kans., assignor of one-half to Wayne M. Traylor, Lebo, Kans. Filed Apr. 2, 1919. Serial No. 286,957. 6 Claims. (Cl. 123—90.)



1. The combination with a valve and actuating cam, of a support having a knife edge, a rocker arm intermediate the cam and valve and seated against said edge, and means engaging about said support and arm to hold the latter against the edge.

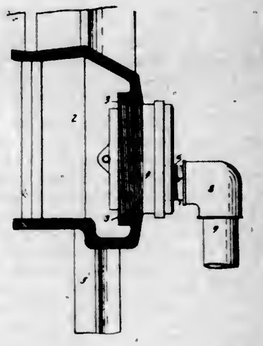
1,346,402. WINDSHIELD ATTACHMENT. GEORGE GLAUDEL, Los Angeles, Calif. Filed May 19, 1919. Serial No. 298,184. 4 Claims. (Cl. 296—84.)

2. In a wind deflector attachment for wind shields, a wind deflecting plate formed with channels having arcuate bottom walls extending longitudinally of the plate adjacent to one edge thereof, a vertical bracket having bosses adapted to bear on said plate rearward of said channels, laterally extending arms rigid on said bracket, and clamping members adjustably connected to said arms arranged to



extend over the edge of said wind deflecting plate formed with arcuate end portions adapted to seat in the aforesaid channels.

1,346,403. ECCENTRIC BUSHING FOR STEAM-RADIATORS. JOHN G. GRIERSON, Richmond, Calif. Filed May 5, 1919. Serial No. 294,946. 3 Claims. (Cl. 137—75.)

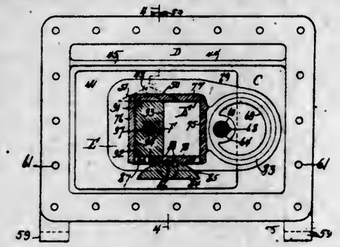


1. In a device of the character described, a cylindrical bushing adapted to be screwed into the lowermost portion of a radiator; closed at one end and open at the other, and having a threaded hole in the lower portion of said closed end, a pipe screwed into said hole, the cylindrical portion of the bushing being internally threaded at the open end, a disk having an externally threaded crown flange, screwed into said internally threaded bushing and having an opening in its lowermost portion, and a check-valve comprising a disk adapted to be seated against the edge of said opening, and a hanger to the lower portion of which said latter disk is attached, said hanger pivotally depending from a portion of the first-named disk on the side of the vertical plane through said opening opposite to said second-named disk.

1,346,404. OSCILLATING-TYPE COMPRESSOR. CHARLES D. HAVENSTRITE, Chicago, Ill. Filed July 30, 1918. Serial No. 247,369. 12 Claims. (Cl. 230—29.)

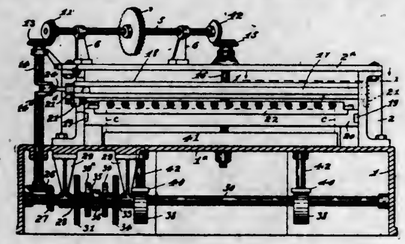
1. In a compressor the combination of a housing forming a compression chamber, an inlet and a discharge port in the housing for the chamber, an oscillating and reciprocating cylinder in the chamber, a pivoted piston in the cylinder and oscillating therewith, a discharge valve for

the cylinder, and means to simultaneously oscillate and reciprocate the cylinder to cause gas to flow therein from



said inlet port and to be discharged from said cylinder after compression therein and flow into the compression chamber.

1,346,405. ICE-CREAM-CUTTING MACHINE. JOHN H. HENDRICKSON and RALPH E. FRIZZELL, Cleveland, Ohio; said Frizzell assignor to said Hendrickson. Filed July 14, 1919. Serial No. 310,586. 6 Claims. (Cl. 107—20.)



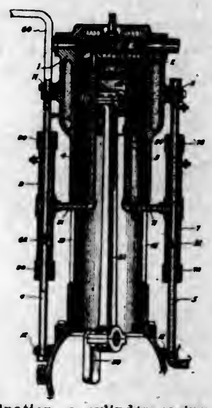
6. In a machine for cutting bulk ice cream into rectangular sections, the combination of a housing, a series of longitudinal cutter wires carried in a holder adapted to reciprocate longitudinally in said housing, a series of transverse cutter wires carried in a holder adapted to reciprocate transversely in said housing, crank-shafts connected with said holders, power mechanism for driving said crank-shafts, a vertically movable table for supporting the bulk to be operated upon, a cam shaft mounted in a horizontal plane below the movable table, vertically acting cams on said cam shaft, vertical connection between said cams and the table, a jack-shaft mounted parallel with the cam shaft, gear connection between said jack-shaft and one of the crank-shafts, changeable gear connection between the jack-shaft and the cam shaft, said connection including gears of different diameters normally revoluble on the jack-shaft and in mesh with gears carried by the cam shaft, clutch means for engagement of the revoluble gears and the jack-shaft, and means on the cam shaft for automatically shifting said clutch means to a neutral position.

1,346,406. WINDOW-SHADE ROLLER. JOHANNES A. HOLMES, Eureka, Calif. Filed Oct. 27, 1919. Serial No. 333,600. 2 Claims. (Cl. 156—36.)



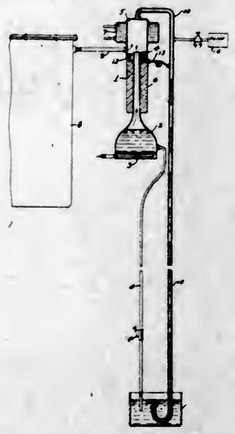
2. A window shade roller comprising a tubular roller, a central shaft within the roller, wheels secured to the ends of said shaft, vertical narrow bands wound around said wheels, guides secured to the window frame on each side of the window and upon which said bands rest, the upper ends of said bands being secured at the upper ends of said guides, a sleeve around said shaft having a member engaging the adjacent guide, a spring coiled around said shaft, and attached thereto at one end, the other end being attached to the sleeve, a second spring coiled around said shaft, attached thereto at one end, the other end being attached to said outer tube, and pawls secured to said outer tube and engaging notches in the shaft.

1,346,407. PISTON-COOLING DEVICE FOR INTERNAL-COMBUSTION ENGINES. WALTER J. LARSON, Wrangell, Alaska. Filed June 30, 1919. Serial No. 307,498. 2 Claims. (Cl. 123—176.)



1. In combination, a cylinder casing, a hollow piston reciprocable therein, fluid inlet and discharge pipes secured in said piston to be reciprocable therewith, and adapted to permit a flow of liquid through the piston, inlet and discharge standpipes alined with the axis of said cylinder, and fixedly secured to said casing, an inlet tube and a discharge tube each closed at both ends and surrounding the inlet and discharge standpipes, respectively, and reciprocable thereon, fluid passages connecting said standpipes with the interior of said tubes, and means connecting the inlet and discharge pipes with the inlet and discharge tubes, respectively.

1,346,408. HIGH-VACUUM PUMPING SYSTEM. WILLIAM V. LOVELL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 26, 1917. Serial No. 171,218. 9 Claims. (Cl. 230—13.)



1. The combination with a diffusion pump, of a Sprengel pump in series therewith and means whereby the latter is operated by the condensate of said diffusion pump.

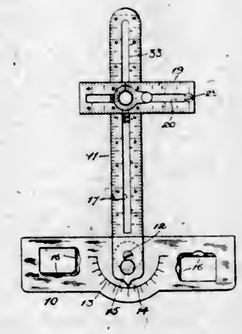
2. The combination with a mercury diffusion pump, of a Sprengel roughing pump in series therewith, and means whereby said roughing pump is operated by the mercury condensed in said diffusion pump.

3. In a pump, the combination with a fluid boiler, of a closed container provided with heat-dissipating means, a nozzle connected to said boiler and arranged to project a vapor blast into said container, an inlet port in the wall of said container adjacent to said nozzle, an outlet port in the wall of said container opposite said nozzle, a fall tube connected to said outlet port and terminating beneath the surface of a liquid pool, and a drainage tube from the lower portion of said container to said fall-tube, whereby gas, entering at said inlet port, is entrained and diffused in said vapor blast, swept onward and compressed thereby at said outlet port and withdrawn therethrough by the action of condensate entering said fall tube through said drainage tube.

4. The combination with a diffusion pump, of a fall-tube, a connection from the outlet port of said diffusion pump to said fall-tube, and a drainage tube from the condensate pool of said diffusion pump to said fall-tube, whereby the action of the pump condensate is to withdraw gas from said diffusion pump.

5. The combination with a diffusion pump, of a fall-tube, a connection from the outlet port of said diffusion pump to said fall-tube, a drainage tube from the condensate pool of said diffusion pump to said fall-tube, said fall-tube terminating beneath the surface of a liquid pool, and a return tube from said pool to said boiler, whereby the material of said pool is caused to circulate through said boiler, the vapor blast, and said fall-tube.

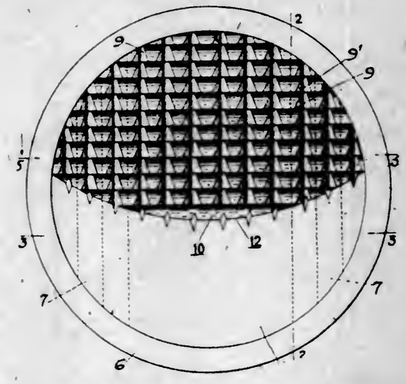
1,346,409. COMBINATION-TOOL. AUGUST L. LUCAS, New Haven, Conn. Filed Feb. 10, 1919. Serial No. 276,139. 5 Claims. (Cl. 33—102.)



2. In a geometrical instrument, an arm, a blade slidably mounted thereupon, clamping means for securing said blade to said arm, said arm having a plurality of holes formed therein longitudinally thereof in spaced relation, a pin engageable with any one of said holes, and a flexible clip having said pin projecting laterally from one face thereof and constructed to yieldingly retain said pin in engagement with any one of said holes to thereby accurately position said blade longitudinally of said arm.

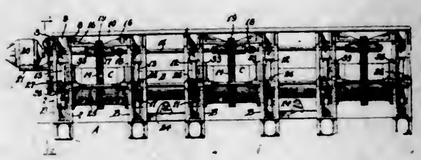
1,346,410. LENS. JAMES J. MADDEN, Aberdeen, S. D. Filed Jan. 9, 1920. Serial No. 350,348. 1 Claim. (Cl. 240—48.4.)

A headlight lens having its front or outer face with a centrally disposed, flat surfaced, vertical, panel-like portion, and a series or group of vertical, convex flutes disposed at either side of said panel-like portion and embracing the remaining areas of said outer face; the rear face of the lens having its lower portion a plane surface, and vertically and horizontally intersecting prismatic ribs



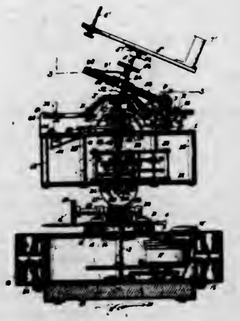
forming prisms and covering the upper or remaining portion of said rear face.

1,346,411. POLE-MAKING MACHINE. CHARLES F. MASSEY, Chicago, Ill., assignor to Massey Concrete Products Corporation, Chicago, Ill., a Corporation of Virginia. Filed Apr. 18, 1919. Serial No. 291,010. 9 Claims. (Cl. 25—30.)



5. In a concrete pole making machine, the combination of a frame, a plurality of mold supporting units adapted to receive the pole mold rotatably mounted in said frame, a gear on each unit, a sectional drive shaft extending longitudinally of the frame having gears meshing with said first gears, and clutch mechanism between sections of the shaft, and a motor coupled directly to an end of said shaft.

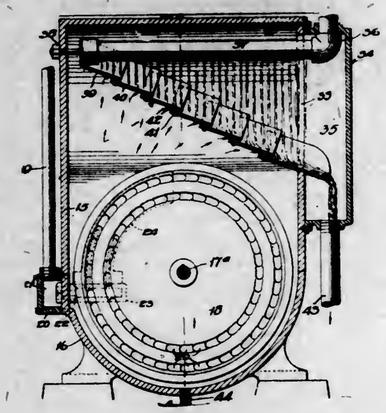
1,346,412. ASTRONOMICAL INSTRUMENT. ELEMER MEITNER, Brooklyn, N. Y. Filed May 17, 1917. Serial No. 169,166. 22 Claims. (Cl. 35—3.)



1. In an astronomical instrument, in combination, a sighting instrument, means connected to said sighting instrument for positioning the latter with its sighting axis in a predetermned relation to the rays from a heavenly

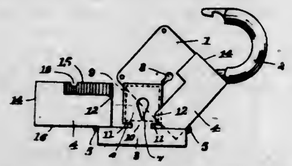
body and means connected to said sighting instrument for indicating the longitude of the point of observation when said sighting instrument is so positioned.

1,346,413. STEAM-CONDENSING TURBINE. ERNST MÜHL, Philadelphia, Pa. Filed Sept. 9, 1919. Serial No. 322,608. 5 Claims. (Cl. 60—94.)



1. A steam turbine including a casing; a water pipe leading into said casing; a trough spaced from said water pipe whereby water from said pipe impacts with the steam in said casing to condense the steam and passes through the space between the water pipe and the trough; and means for taking off the water from said trough; substantially as described.

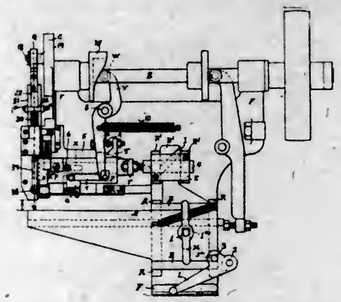
1,346,414. PADLOCK SEAL-HOLDER. THOMAS MURPHY, New York, N. Y. Filed May 20, 1920. Serial No. 382,832. 4 Claims. (Cl. 70—97.)



2. A seal-holder for padlocks comprising a casing to embrace the body of a lock and having a seal-carrying plate to cover the key-hole of the lock, a base portion in the form of a tray to fit around the bottom portion of the lock, said plate being connected to said base portion by a reduced neck, and wings hinged to the end portions of the base member and adapted to overlap the lateral edges of the plate at the sides of the neck, said wings being engaged by the shackle of the lock for retaining the holder in place.

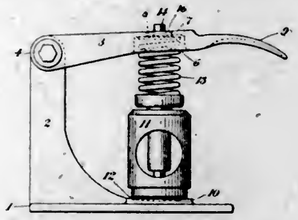
1,346,415. STITCHING-MACHINE. JOHN W. NASMITH, Heaton Mersey, England. Filed Dec. 20, 1918. Serial No. 267,623. 2 Claims. (Cl. 1—7.)

1. A wire stitching machine comprising an anvil adjustable in a predetermined path, means for positively securing the anvil at any point to which it is adjustable, a wire feeding mechanism including a wire gripper adapted to alternately feed and release the wire, gripper reciprocating means comprising a cam, and a two-armed lever having arms of unequal length, the longer arm being connected with the wire gripper and the shorter arm being in the path of said cam, a wire-cutting mechanism including a reciprocating knife-carrier having a knife adapted to cut the wire fed by the feeding mechanism, the path of said knife-carrier being adjustable in a direction substantially at right angles wth the path in which the anvil is adjustable, and connections between the anvil, the knife-carrier and the gripper-reciprocating means, actuated by a given adjustment of the anvil to cause and maintain an equal adjustment of the path of the knife-carrier and to cause and maintain a proportional increase or decrease in the length of travel of the gripper, the said connections



including an anvil carrier movable in fixed guides, and a slide movable in a path at right angles with the path of the anvil carrier, means being provided for causing the anvil, when moved, to adjust the slide an equal amount, and a stop also connected with and movable by the slide and arranged to limit the movement of the shorter lever arm toward said cam, the construction and arrangement being such that any adjustment of the anvil causes the formation of staple legs of equal length proportioned to the adjustment of the anvil.

1,346,416. VALVE-SPRING COMPRESSOR. CHARLES H. NEWTON, Plainville, Conn. Filed Nov. 1, 1919. Serial No. 335,038. 1 Claim. (Cl. 29—87.1.)

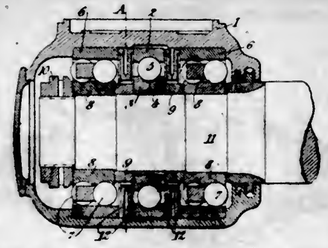


In a spring compressor for Buick valve units, the combination of a base provided with a circular, concaved seat adapted to coöperatively receive the lower end of a valve unit, a lever support integral with the base, a lever pivoted to the support at substantially the height of such valve unit, such lever being provided with an integral enlargement having a circular socket in the lower side thereof centered above the concave base and adapted to receive the spring washer of such valve unit, a circular opening through the top of said socket adapted to permit the passage therethrough of the valve stem and key, and an extended handle integral with said lever for applying downward pressure thereto.

1,346,417. COMBINED RADIAL AND THRUST BALL-BEARING. NILS ARVID PALMGREN, Gottenborg, Sweden, assignor to S K F Administrative Company, Inc., New York, N. Y. Filed June 26, 1919. Serial No. 306,918. 3 Claims. (Cl. 64—36.)

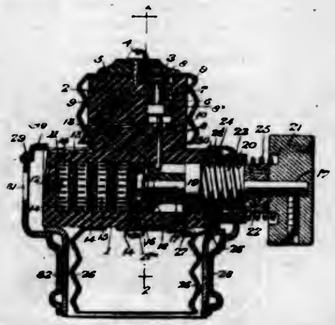
1. In a combined radial and thrust bearing, the combination of a casing, at least one thrust ball bearing in said

casing, at least one radial ball bearing in said casing, said radial ball bearing having one track cylindrical so as to



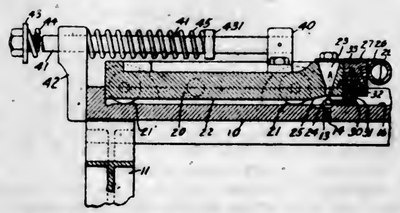
enable one of its races to move axially relatively to the other race, and elastic means between said thrust ball bearing and said radial ball bearing.

1,346,418. CURRENT-REGULATING PLUG AND SOCKET SWITCH. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 15, 1919. Serial No. 317,828. 6 Claims. (Cl. 219—49.)



1. A body, resistance material therein, a piston in said body adapted to adjust the degree of compression of said material, a stem carrying said piston, a screw on said stem, an engaging collar for said screw, a cam on said stem, a movable pin on said body adapted to be engaged by said cam, an electrode in said body, a member on said pin adapted to contact with and to be removed from said electrode, means for retaining said member in contact with said electrode, and an electric circuit leading from a source of energy to said electrode and from the latter to the object to receive the current.

1,346,419. METHOD OF AND MACHINE FOR HARDENING AND STRAIGHTENING RODS. ERNEST W. PITTMAN, Flushing, N. Y., assignor to New England Westinghouse Company, a Corporation of Massachusetts. Filed Jan. 5, 1918. Serial No. 210,524. 17 Claims. (Cl. 266—6.)



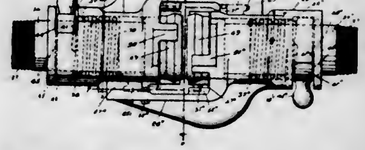
1. The method of hardening and straightening rods and the like which comprises rolling the rods under pressure between plane surfaced members and simultaneously treating them with a suitable cooling medium.

1,346,420. VALVE-GRINDER. JOHN RALSTON, Houston, Tex. Filed Oct. 24, 1919. Serial No. 332,865. 5 Claims. (Cl. 51—4.)



1. A valve grinder comprising a bearing member adapted to be fitted in an engine casing, a stem guided in said member and having a portion to engage a valve, and a handle attached to said stem by a universal joint for rotating the stem with the handle at an angle to the axis of the stem as well as axially therewith.

1,346,421. HOSE-COUPLING. EDWARD A. RUSSELL and SEELYE P. HARRIMAN, Chicago, Ill., assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 24, 1916. Serial No. 73,885. 59 Claims. (Cl. 285—68.)

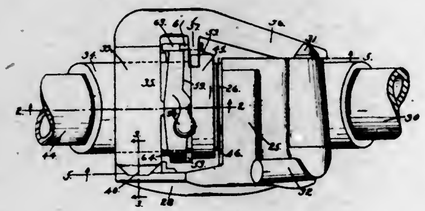


1. A railway train pipe hose coupler comprising a conduit member, a coupling member movable with respect to the conduit member and provided with means which may be preliminarily engaged with another coupler in an interlocked engagement by moving said couplers together laterally, which engagement centers and maintains in centered relation the ports of said couplers, and means for effecting a relative movement between said coupling and conduit members whereby the latter is brought into effective contact with said other coupler.

1,346,422. HOSE-COUPLING. EDWARD A. RUSSELL and SEELYE P. HARRIMAN, Chicago, Ill., assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 24, 1916, Serial No. 73,885. Divided and this application filed July 24, 1916. Serial No. 110,873. 48 Claims. (Cl. 285—57.)

1. A hose coupler comprising a coupling member adapted to mate with a coupler of the Sewall type, a conduit member movable with respect to the coupling member, and a cam positioned adjacent the outer face of the coupling member surrounding the conduit member and engaging with said members so that its rotation in one direction produces relative movements between said members whereby the conduit member is seated against the corresponding part of the mating coupler while its rotation in the opposite direction withdraws said conduit member from operative contact with said mating coupler.

2. A hose coupler comprising a coupling member adapted to mate with a coupler of the Sewall type, a conduit member movable with respect to said coupling member, and a cam ring positioned adjacent the outer face of the coupling member surrounding said conduit member and bearing on opposite sides against parts thereof and against said coupling member so that its rotation produces relative longitudinal movements between said members in opposite directions.

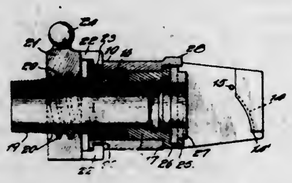


3. A hose coupler comprising a coupling member adapted to mate with a coupler of the Sewall type, a conduit member extending through said coupling member and formed with an enlargement at its outer end, and a cam ring surrounding said conduit member and interposed between the enlargement thereof and said coupling member.

4. A hose coupler comprising a coupling member adapted to mate with a coupler of the Sewall type, a conduit member which extends through said coupling member and is provided at its outer end with a pair of diametrically arranged lugs, a pair of diametrically arranged lugs on the coupling member at substantially right angles to the lugs of the conduit member, and a cam member interposed between said lugs.

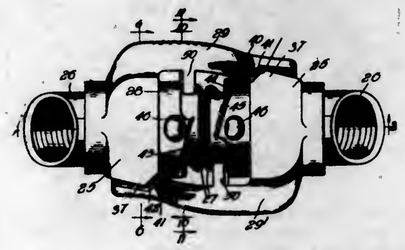
5. A hose coupler comprising a coupling member adapted to mate with a coupler of the Sewall type, a conduit member which extends through said coupling member and is provided at its outer end with a pair of diametrically arranged lugs, a pair of diametrically arranged lugs on the coupling member at substantially right angles to the lugs of the conduit member, and a cam ring surrounding said conduit member and interposed between said pairs of lugs.

1,346,423. HOSE-COUPLING. EDWARD A. RUSSELL and SEELYE P. HARRIMAN, Chicago, Ill., assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 24, 1916, Serial No. 73,885. Divided and this application filed Apr. 10, 1919. Serial No. 288,903. 10 Claims. (Cl. 285—68.)



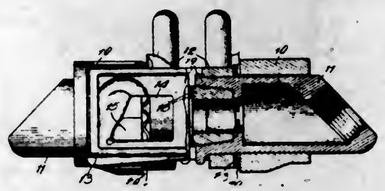
1. A hose coupler comprising in combination a coupling member and a conduit member movable longitudinally through the coupling member, the latter being provided with means whereby it may be preliminarily engaged with a mating coupler and held in substantially normal alinement therewith, and a device for producing relative longitudinal movements between said coupling and conduit members to seat the latter against the mating coupler comprising a rotatable element having a threaded connection with one of said members and provided with means engaging the other of said members.

1,346,424. HOSE-COUPLING. EDWARD N. ROTH, Chicago, Ill., assignor to Roth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 25, 1919. Serial No. 284,958. 21 Claims. (Cl. 285—68.)



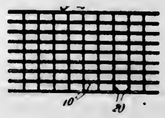
1. A hose coupler comprising, in combination, a coupling member provided with means for engaging a mating coupler, a conduit member extending through the coupling member, and a wedging member interposed between the coupling and the conduit member, the conduit and wedging member being formed with two pairs of coengaging wedging faces disposed substantially midway between vertical and horizontal lines through the conduit member.

1,346,425. HOSE-COUPLING. EDWARD N. ROTH, Chicago, Ill., assignor to Roth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 24, 1919. Serial No. 284,769. 8 Claims. (Cl. 285—69.)



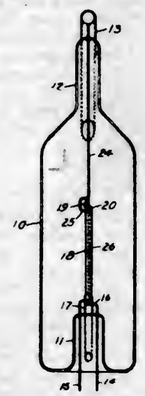
1. A hose coupler comprising, in combination, a coupling member adapted to engage a mating coupler, a conduit member movable in said coupling member, wedging means between said members, and a resilient element arranged to bear against said wedging means and to be stressed to cushion said parts and prevent a loosening of the wedging means.

1,346,426. GRATING. PAUL H. E. SCHERBNER, New York, N. Y. Filed May 27, 1919. Serial No. 300,084. 4 Claims. (Cl. 189—82.)



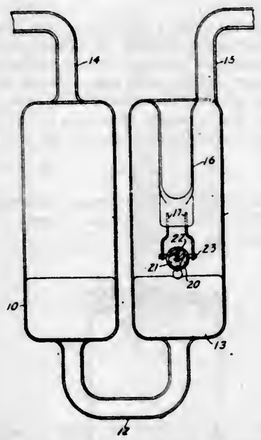
1. Grating comprising a plurality of longitudinal members cut away at spaced intervals to form straight slots terminating short of their edges, a plurality of narrower flat transverse members passing through said slots, and each provided with spaced notches in its upper edge, and parts of the longitudinal members bent longitudinally under the under edges of the transverse members to maintain said transverse members in positions with the parts thereof adjacent the notches overlapping the longitudinal members at the upper ends of the slots therein.

1,346,427. GAGE FOR LOW PRESSURES. JAMES E. SHRADER, Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 27, 1917. Serial No. 209,195. 7 Claims. (Cl. 73—31.)



1. A gage for measuring low pressures of gases or vapors including a vessel providing a chamber, a conductor element fixed within the vessel, means for passing a current through the conductor element to heat it and an element freely supported for swinging movement and normally in parallel spaced relation to the conductor element.

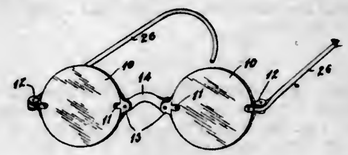
1,346,428. MERCURY-MANOMETER. JAMES E. SHRADER, Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 27, 1917. Serial No. 209,196. 4 Claims. (Cl. 73—31.)



1. In a U-shaped mercury manometer, a light-reflecting member mounted for tilting movement and means, operable by changes in level of the mercury in the manometer, for causing proportionate tilting of the reflecting member.

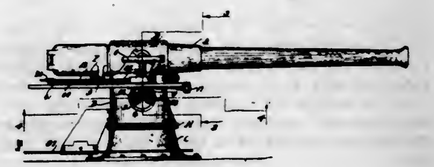
1,346,429. SPECTACLES. JULIUS SILVERSTEIN and JACOB B. ROTHBERG, New York, N. Y. Filed Sept. 24, 1919. Serial No. 325,948. 1 Claim. (Cl. 88—42.)

A pair of spectacles having an arched nose bridge, reduced tongues at opposite ends of the bridge, said tongues having square outer ends extending in substantially vertical planes, saddle members having flat outer surfaces for engaging the square ends of the nose bridge, parallel arms on the saddle members overlying the tongues of the



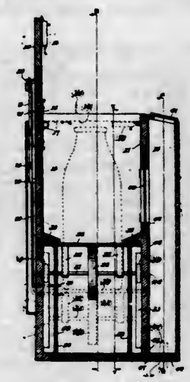
nose bridge and straps extending from the saddle member in the same planes with the arms and lens supported by the straps in proper position in the saddle member.

1,346,430. COMBINED RANGE-FINDING, PLOTTING, PREDICTING, AND GUN-ADJUSTING DEVICE. LEONARD A. SMITH, U. S. Army, assignor of one-half to Andrew H. Cannon, Washington, D. C. Filed Aug. 1, 1917. Serial No. 183,956. 43 Claims. (Cl. 33—48.)



1. In combination, a gun including a gun mount, and means mounted on the gun mount for constantly giving the range of a target and predicting a future range of the target, said means having connection with said gun for adjusting the latter in synchronism with the operation of said means, after the first cycle of operation whereby said gun is moved to proper position for delivering the projectile at the predicted range.

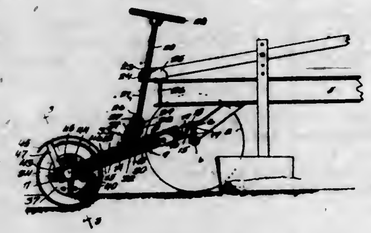
1,346,431. COMBINATION-RECEPTACLE. JOHN SOKAČ and ANDREW SEMKO, Kingston, Pa. Filed Feb. 27, 1920. Serial No. 361,822. 3 Claims. (Cl. 232—41.)



1. A receptacle of the type described comprising a casing, a hinged cover therefor, means for holding the cover in its open position extending into said casing, guide rods of said casing, a platform movable over said guide rods, a shaft journaled beneath said platform, a spring connected at one of its ends to said shaft and at its other

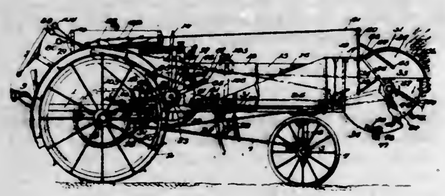
end to said platform and means for increasing the tension on the spring when the platform is lowered due to a weight placed thereon, said platform in its lowering movement attempting to engage the cover holding means to release the same from the cover and a lock controlled door for the casing.

1,346,432. ATTACHMENT FOR EARTHWORKING-MACHINES. LEMOY HILLER TOWNER, Muskogee, Okla. Filed Aug. 29, 1919. Serial No. 320,612. 4 Claims. (Cl. 37—5.)



1. The combination with an earth working machine, of an earth engaging disk, a vertically swinging frame carrying the disk and pivoted to said machine, a raising screw, a support nut engaging the raising screw and pivoted upon said machine, means positively connecting the raising screw and swinging frame, and means to turn the screw.

1,346,433. COMBINED MANURE LOADER AND SPREADER. HIRAM H. VARLAND, Clark, S. D. Filed June 5, 1918, Serial No. 238,351. Renewed Nov. 26, 1919. Serial No. 340,801. 26 Claims. (Cl. 275—5.)



1. In a machine for handling manure, a load supporting bed including a drop section, and means operable in the raised position of the section to distribute the load and in the dropped position of the section to load material on to the bed.

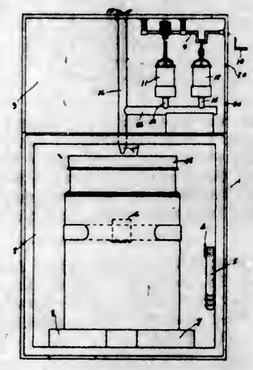
8. In a machine for handling manure, a bed including a drop section, a rotary beater carried by the drop section and operating when actuated upon material upon the bed to distribute the said material and when acting upon a pile of material, when the drop section is in lowered position, to throw the said material on to the bed, and means for rotating the beater.

14. In a machine for handling manure, a bed including a fixed section and a drop section, a rotary beater carried by the drop section and including a beater shaft, conveyer shafts carried by the fixed and drop sections, an endless conveyer passing about the shafts, means for rotating the shaft upon the drop section to move the conveyer toward the beater, and means for rotating the shaft upon the fixed section for moving the conveyer in a direction away from the beater.

20. In a machine for handling manure, a bed including a fixed section and a drop section, a rotary beater carried by the drop section and including a beater shaft, conveyer, shafts carried by the fixed and drop sections of the bed, a conveyer actuated through rotation of either of said conveyer shafts, means for imparting motion to the conveyer shaft upon the drop section and actuated through rotation of the beater shaft, a rotary shaft, means for rotating the conveyer shaft upon the fixed section and actuated through rotation of the last-mentioned shaft, the machine including a traction wheel, and means actuated through rotation of the last mentioned shaft for imparting step by step rotary motion to the said traction wheel.

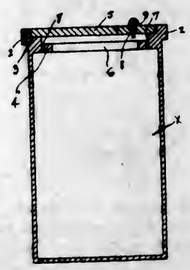
26. In a machine for handling manure, a load supporting bed, forward and rear wheels supporting the bed for travel, a motor at the rear part of the bed, gearing between the motor and the rear wheels for propelling the machine, distributer means at the forward part of the bed, and gearing between the said motor and the distributing means for driving the latter.

1,346,434. APPARATUS FOR SEALING PRESERVING-JARS. ARTHUR EGGLETON WORSTER, Vancouver, British Columbia, Canada. Filed July 24, 1919. Serial No. 313,037. 1 Claim. (Cl. 226—82.)



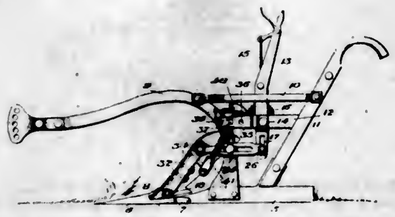
An apparatus for sealing preserving jars comprising an air tight compartment adapted to inclose a jar and its cap, a vertical air duct having its lower end extending into said compartment and its outer end closed by a valve, said air duct being provided intermediate its ends with a lateral extension and pumping mechanism for creating a vacuum in said extension to exhaust the air within the compartment.

1,346,435. PRESERVING-JAR. ARTHUR EGGLETON WORSTER, Vancouver, British Columbia, Canada. Filed Aug. 9, 1919. Serial No. 316,349. 7 Claims. (Cl. 215—80.)



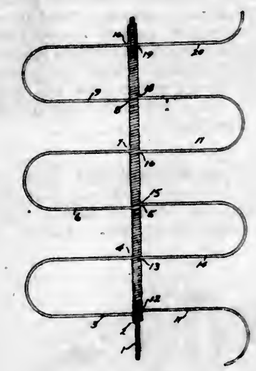
6. A preserving jar having an exterior lip and recessed at its upper end to form upper and lower seats, the lower one of which is apertured, a cover seated freely on the upper seat, said cover having an opening therethrough, and a valve mounted on the cover normally closing the said opening, provided with means whereby it may be lifted.

1,346,436. PLOW. JOSEPH ZBANEK, Hallettsville, Tex. Filed Aug. 6, 1919. Serial No. 315,644. 1 Claim. (Cl. 97—26.)



A plow comprising a runner, a plow beam carried by the runner, handle arms supported rearwardly of the plow beam, a plow point fixed to the forward end of the runner, an inverted U-shaped frame pivotally mounted at its lower end to the runner, links connected to the upper end of said frame and slidably supported intermediate the ends on the beam, a lever having a bolt and slot connection with the other ends of said links for shifting the links and frame to vary the inclination of the frame, a shoe slidably mounted between the bars of the frame, means for shifting the shoe in the frame, means for holding the shoe in adjusted positions, and a blade fixed to said shoe.

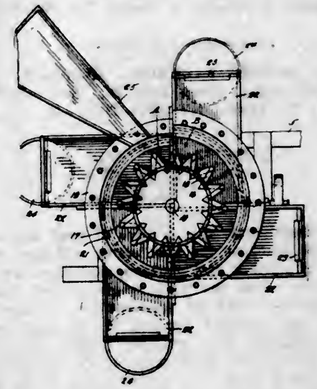
1,346,437. PLASTER GAGE AND REINFORCEMENT. ALVIN ALBINSON, Minneapolis, Minn. Filed Aug. 8, 1919. Serial No. 316,177. 3 Claims. (Cl. 72—121.)



2. In a plaster gage and reinforcement, the combination of a stiff wire, multiple loops positioned to the right and to the left of said stiff wire, said loops being attached to said stiff wire by convolutions of the wire from which said loop is formed, tightly encircling said stiff wire between the ends of the loops.

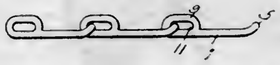
1,346,438. PRODUCT ASSORTING AND DISTRIBUTING MACHINE. FRANK H. BALLOU, Newark, Ohio. Filed Nov. 29, 1919. Serial No. 341,497. 1 Claim. (Cl. 130—32.)

A product assorting device comprising a frame, a shaft rotatably mounted therein, a distributing wheel having notches in its periphery approximately V-shaped in plan and having padded surfaces, a rim encircling the wheel,



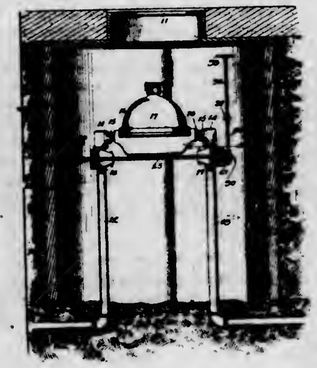
the said rim being eccentric to the periphery of the distributing wheel and having an inner beveled edge inclined toward the wheel and a cushion on said beveled surface.

1,346,439. HARNESS TRACE-CHAIN. EDWARD PAUL BELZ, Athens, Wis. Filed May 29, 1919. Serial No. 300,780. 2 Claims. (Cl. 59—90.)



1. A chain trace comprising interengaging links, each consisting of a metallic member, with a loop open at one end, and converging shanks, the said shanks having elongated eyes, and the closed end of said loop being shaped to lie out of the plane of the main portion thereof and terminating into alinement with said eyes.

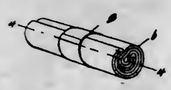
1,346,440. METER-SUPPORT. CLYDE CLINTON BRADFIELD, Harbor Springs, Mich. Filed July 1, 1919. Serial No. 308,001. 5 Claims. (Cl. 285—3.)



1. The combination of a pair of upright yieldingly supported pipes having elbows at their upper ends, a meter disposed between the pipes and having nipples extending into the horizontal portions of said elbows, clamping members engaged with the said pipes adjacent to the elbows for shifting the same toward and away from one an-

other, adjusting connections between the said clamping members and manually controlled means for actuating said connections including a controlling shaft, and a wrench having means to detachably engage the said controlling shaft.

1,346,441. TOILET PACKAGE. MERVIN B. CANNON, Cincinnati, Ohio. Filed July 25, 1919. Serial No. 313,189. 3 Claims. (Cl. 206—47.)



2. A package comprising a piece of soap and a wrapper of crape paper or the like having sufficient inherent rigidity to produce a firm package, said paper being of a width greater than the soap length, rolled repeatedly around said soap with its convolutions overlapping the soap ends and suitably secured in its soap inclosing condition, whereby said wrapper retains the soap by virtue of the normal contraction of its convolutions at the soap ends incident to the firm rolling of the wrapper around the soap, and the nature of the paper.

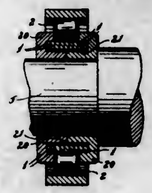
1,346,442. RADIATOR. LOUIS F. CLAUSING, Los Angeles, Calif. Filed Aug. 6, 1917. Serial No. 184,633. 4 Claims. (Cl. 257—130.)



1. In a radiator of the honeycomb type, a pair of corrugated sheets having their edges contracted forming fins on the apexes and at the ends of alternate corrugations on one side of each sheet whereby the ends of the corrugations are reduced relative to their intermediate cross section, the intermediate walls of the corrugations being bowed, said sheets arranged back to back with their edges connected forming a vertical zig zag water passage therebetween with outwardly and oppositely bowed side walls and disposing the fins in staggered relation to each other on opposite sides of the walls, and a corrugated spacing blank having depressions in the apexes of the corrugations adapted to receive the apexes of the finned corrugations on the sheets forming honeycomb air ducts, the fins abutting against the corrugated blank at the ends of the depressions and secured thereto.

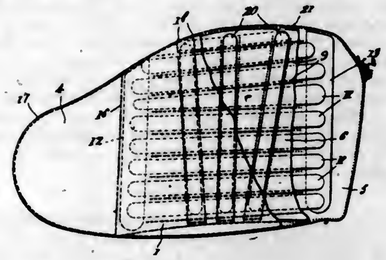
1,346,443. ROLLER OR BALL BEARING. ALBERT EDWARD DABBS, Manchester, STANLEY WHITBY SAVAGE, Chorlton-cum-Hardy, and ALFRED HAROLD HINDLE, Birmingham, England, assignors of one-eighth to Absalom Liddle, Manchester, England, and one-half to John George William Gruban, Kingsway, London, England. Original application filed Dec. 5, 1918, Serial No. 265,460. Divided and this application filed Sept. 5, 1919. Serial No. 321,965. 4 Claims. (Cl. 64—39.)

1. In a bearing, rotatable anti-friction members disposed between a pair of races, one of which is a ring of solid construction and the other of which is formed as a close helix having an interior surface and an exterior surface a portion of one of which forms a race for the anti-friction members, means for supporting said helix said means



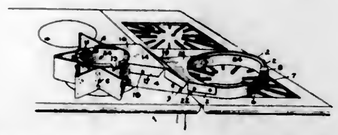
contacting that surface of the helix a portion of which constitutes a race, and a clearance between the whole of the opposite surface of the helix and said supporting means.

1,346,444. ARCH-SUPPORT. SAMUEL DARLING, Waupun, Wis. Filed July 15, 1919. Serial No. 310,896. 2 Claims. (Cl. 36—71.)



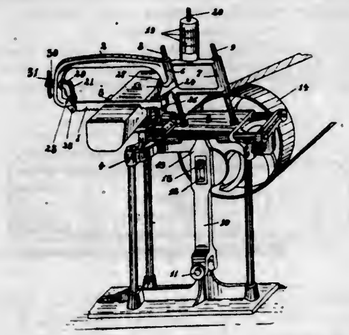
1. An improved arch support including a body portion composed of three layers of suitable material, the upper and intermediate layer having transverse pockets formed therebetween, flat springs removably fitted in said transverse pockets, longitudinal pockets formed between said lower and intermediate layers, flat springs removably fitted in said longitudinal pockets, means for supporting the ends of said longitudinal springs, and side flaps on said body portion into which the transverse springs extend, substantially as described.

1,346,445. FUEL-ECONOMIZER FOR COOKING-STOVES. JAMES DAWSON, Oakland, Calif., assignor to Charles G. Campbell, Alameda county, Calif. Filed Sept. 5, 1918. Serial No. 252,688. 1 Claim. (Cl. 126—215.)



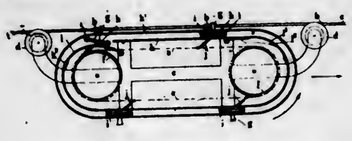
In a gas economizer, the combination of a wall adapted to surround a burner of a gas cooking stove and to support a cooking vessel thereon and prevent the escape of the products of combustion except on one side thereof, walls communicating with the first named wall and forming a conduit through which the products of combustion flow when escaping, a wall forming a heating chamber communicating with said conduit and into which said products of combustion escape, said latter wall being higher than said first mentioned wall, and also being adapted to support a cooking vessel, openings in the upper edge of said second wall for the escape of the products of combustion and a star shaped band attached to said last mentioned wall and adapted to deflect the products of combustion upwardly around the sides of an overlying vessel.

1,346,446. SAWING-MACHINE. LOUIS DENIS, Liege, Belgium. Filed May 27, 1919. Serial No. 300,154. 1 Claim. (Cl. 29—73.)



A sawing machine having a saw blade frame slidably supported on rods, means to give said rods an alternating rectilinear movement, said rods being inclined at an angle to the direction of the cutting movement of the saw blade.

1,346,447. SYSTEM OF HAULAGE. ERNEST ALPHONSE DERUNGS, Paris, France, assignor to Societe Anonyme Ateliers Otis Pifre, Paris, France. Filed July 25, 1919. Serial No. 313,398. 12 Claims. (Cl. 104—237.)



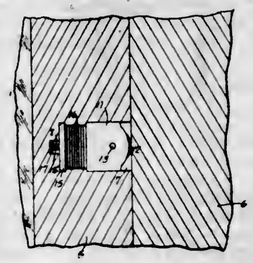
1. In a system of haulage, a fixed cable, stop balls on the cable, a tractor, an endless chain carried by the tractor, clips carried by the chain, adapted to strike the stop balls of the cable to produce propulsion.

1,346,448. WEARING-APPAREL. HENRY W. EWING, Columbus, Ohio. Filed Jan. 10, 1920. Serial No. 350,613. 2 Claims. (Cl. 2—95.)



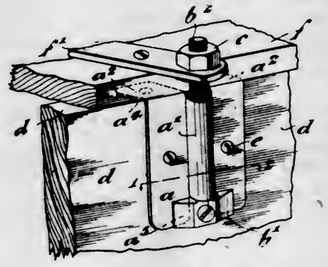
1. A garment of the character specified, a substantially tubular body portion formed from a weatherproof material and of such fullness as to receive within the same articles of clothing situated substantially between the knees and feet of a wearer, and hooks carried by the upper marginal edge of said garment and capable of penetrating said clothing to effect a secure yet removable support of said garment in its applied position.

1,346,449. WINDOW-SASH HOLDER. JOHN H. GIBSON, Bruin, Pa. Filed July 24, 1919. Serial No. 313,027. 1 Claim. (Cl. 292—75.)



In a sash fastener, a vertically movable sash having a recess in one side thereof, a housing slidable in the recess, the rear wall and the bottom wall of the housing being formed with a thickened part, the surface of which being longitudinally curved, a roller journaled in the housing and movable over one rail of the window frame, rollers movable over the curved surface and adapted to bind against the first-mentioned roller to lock the same against rotation upon the lowering of the sash, and expansible means urging the housing toward the sash frame.

1,346,450. BOLT-FASTENING FOR THE LIDS OF BOXES, CASES, AND OTHER RECEPTACLES HAVING LIDS. CHARLES CLIFFORD GOSSAGE, Birmingham, England. Filed Aug. 22, 1916. Serial No. 116,382. 1 Claim. (Cl. 292—256.)



A fastener comprising a plate for attachment to a wall of a box or the like, said plate having a semi-tubular portion forming a socket and also having a flange at one end to fit over the edge of said wall and bear under a lid, a bolt in said socket and having a T-head bearing against one end of the socket and also bearing on said plate to prevent the bolt from turning, said T-head having an opening, fastening means extending through said opening and into said box wall and independently securing the bolt in place, the opposite end of said bolt projecting beyond the plate and adapted to extend through an opening in the box lid, and a nut screwed on said end of the bolt to bear on and secure the lid.

1,346,451. MILK-CAN HOLDER AND PROTECTOR. RICHARD D. GREEN, Seattle, Wash. Filed Aug. 21, 1919. Serial No. 318,880. 5 Claims. (Cl. 65—61.)

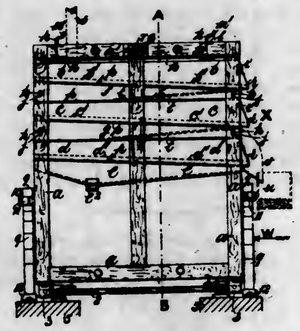
1. A milk can holder and protector comprising a handle, means secured thereto for gripping a can at its upper end, a guide secured to the lower end of said handle and curved to embrace the circumference of the can near its lower

end, said guide being less in circular extent than a semi-circumference, a protector for the top of the can hingedly



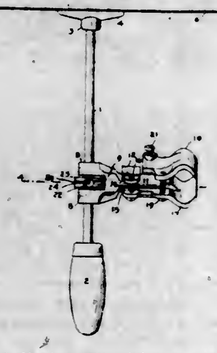
secured to said handle, and a spring acting to close said protector upon the top of the can.

1,346,452. SIFTER FOR TREATING POTTERS' SLIP, POWDERED SUBSTANCES, AND THE LIKE. ARTHUR CECIL HARRISON, Alsager, England. Filed Apr. 29, 1919, Serial No. 293,562. Renewed May 4, 1920. Serial No. 380,016. 2 Claims. (Cl. 83—56.)



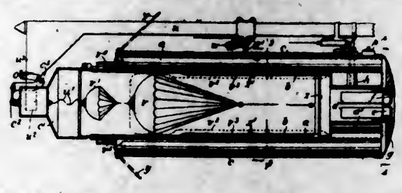
1. In sifting machines, the combination with a skeleton frame and a fixed base, sieving elements supported on the frame, a shaft arranged longitudinally of the frame and disposed intermediate the width thereof, of spring members connected to the frame and fixed base, and means for rocking the frame on the shaft.

1,346,453. DIRECTION-PREINDICATOR. EDWARD H. HEBERN, Oakland, Calif., assignor to H & H Patent Developing Company, Oakland, Calif. Filed Nov. 21, 1917. Serial No. 203,145. 1 Claim. (Cl. 116—46.)



A direction pre-indicator comprising a bearing having a bar extending at right angles thereto, a clamp member having a windshield clamping jaw at one extremity thereof and provided with a recess to receive said bar, apertured ears on the other end of said clamp member, a clamp member secured to said ears for rotatably clamping the bar upon said clamp member, a fastening element extending through said ears and the last-named clamp member, a jaw coöperating with the first-named jaw to secure the first-named clamp member to a wind shield and being independent of the second-named clamp member, a stem rotatably mounted in said bearing, a handle on one end of said stem and a pointer device secured to the other end of the stem and extending at right angles thereto.

1,346,454. PARACHUTE-FLARE. HAROLD EDWARD SHERWIN HOLT, Farnborough, England. Filed Feb. 4, 1919. Serial No. 274,912. 5 Claims. (Cl. 102—20.)

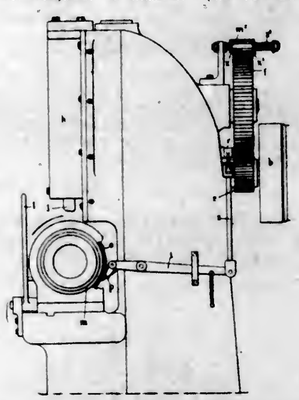


2. A flare bomb including a main parachute, an auxiliary parachute, means to initially hold said parachutes in folded condition, means to release the auxiliary parachute, and means controlled by the burning of the flare to release the main parachute.

4. A flare bomb for launching from air craft including a detachable closing cap at one end thereof and means for securing the same to the launching cradle.

5. In a flare bomb for launching from air-craft a folding screen arranged to intercept upwardly directed light rays during the descent of the flare bomb substantially as described.

1,346,455. MACHINE FOR APPLYING DRIVING-BANDS ON HIGH-EXPLOSIVE SHELLS. EDOUARD LABITOTIÈRE, Bezons, France. Filed June 11, 1919. Serial No. 303,514. 6 Claims. (Cl. 78—26.)

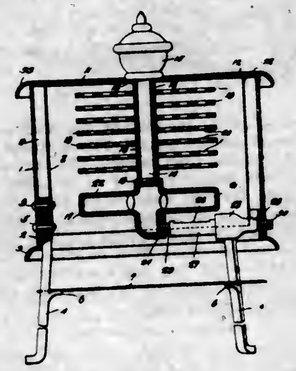


1. A machine for applying driving bands on high explosive shells, comprising a falling mass, a hammer placed under this mass and having a peen of special shape, means for effecting the raising of said mass, means for imparting to the shell, at each descent of the hammer, a rotary movement through a predetermined fraction of a revolution, means for maintaining the hammer in its uppermost position when the machine is thrown out of gear, and means, in case the shell is to receive a second driving band, to move said shell to the desired extent for that purpose, after the application of the first driving band.

1,346,456. GAS-HEATER. ALFRED LEISTMANN, Brooklyn, N. Y. Filed Mar. 2, 1920. Serial No. 362,695. 3 Claims. (Cl. 126—85.)

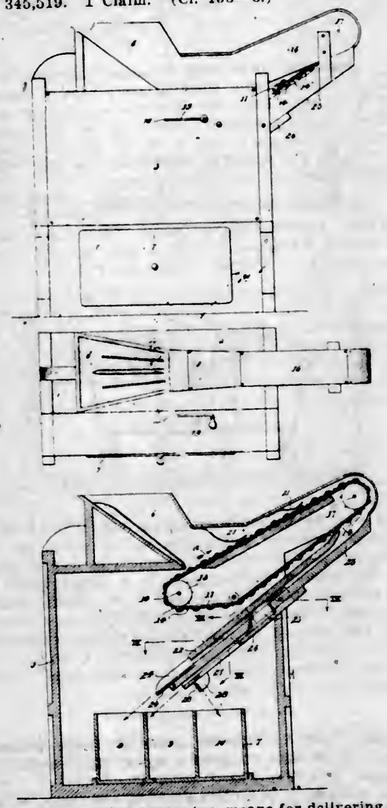
1. A heater including supporting legs, an outer cylindrical casing having connection with the supporting legs, an inner casing having connection with the supporting

legs and disposed in spaced relation with the outer casing, a cover, said cover having a plurality of openings formed therein, a supporting rod having one extremity disposed in one of the openings of the cover, a burner



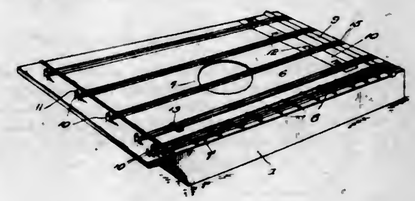
having threaded connection with one end of the supporting rod, a plurality of baffle plates supported on the supporting rod, and collars for securing the baffle plates in spaced relation with each other.

1,346,457. COIN-ASSORTING APPARATUS. JOZEF LEJA, Fallentimber, Pa. Filed Dec. 17, 1919. Serial No. 345,519. 1 Claim. (Cl. 133—3.)



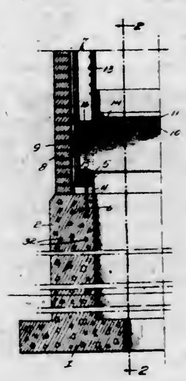
In a coin-assorting apparatus, means for delivering coins from a point of supply to a point of separation including an endless member having a plurality of resilient plates secured thereon, each adapted for the reception of a coin, abutments carried by said plates adapted to engage the coin for insuring movement of the latter with the endless member, means disposed above said endless member to prevent the passage of more than one coin at a time past the same, said last-named means including a spring arranged to bear upon said resilient plate.

1,346,458. MUSICAL STRINGED INSTRUMENT. JOHN L. LEWIS, Seattle, Wash. Filed May 6, 1919. Serial No. 295,138. 1 Claim. (Cl. 84—285.)



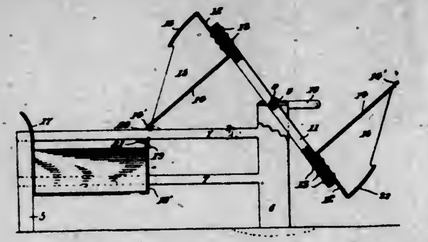
A musical instrument comprising a hollow body having a top formed with a central opening and constituting a sounding board, a bridge extending wholly across the sounding board adjacent one end thereof, a set of strings arranged adjacent one side edge of the body and coöperating with said bridge, frets arranged on the sounding board and underlying said set of strings, and a plurality of additional sets of strings, arranged in spaced groups and coöperating with said bridge, the strings of each group being tuned to produce a particular chord when sounded.

1,346,459. SILL CONSTRUCTION. FREDERICK N. MARVICK, Pine Bluff, Ark. Filed July 23, 1918. Serial No. 246,376. 1 Claim. (Cl. 20—4.)



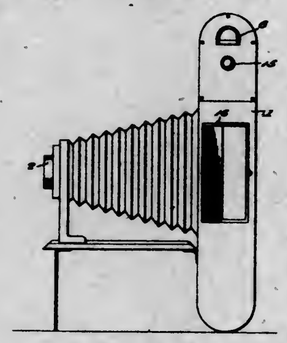
In building construction, the combination with the foundation wall and the house wall rising therefrom, of blocks arranged transversely of the foundation wall and resting upon the top thereof with their inner ends flush with the inner face of the foundation wall and their outer ends spaced inwardly from the house wall, a sill laid upon said blocks and anchored to the foundation wall, said sill having a width less than the length of said blocks whereby its inner face will be flush with the inner ends of the blocks and its outer face disposed inwardly of the outer ends thereof, and a sheathing disposed upon the blocks against the outer face of the sill and spaced from the house wall.

1,346,460. SAND-LOADING DEVICE. GEORGE MICHNA, Albany, N. Y. Filed Oct. 1, 1919. Serial No. 327,621. 4 Claims. (Cl. 193—1.)



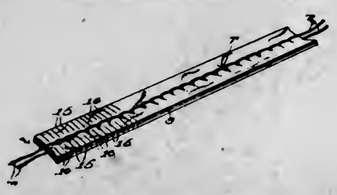
1. A sand loading device comprising a frame, a shaft journaled therein, arms radially extending from said shaft, scoops secured to the outer ends of said arms, a chute supported by said frame, a resiliently mounted side board carried by said chute positioned in the swinging path of movement of said scoops and means for operating said shaft.

1,346,461. CAMERA. HECTOR J. PERRIER, Edmonton, Alberta, Canada. Filed Aug. 16, 1918. Serial No. 250,245. 1 Claim. (Cl. 95—42.)



A camera comprising a body having an opening and means to normally close the same, a lens adjustably mounted with relation to the body, means to move a film in the body, a spring-actuated roller journaled in the body, a second roller journaled in the body, means to connect the second-named roller with the film-moving means, said connecting means being capable of ready disconnection from the film-moving means, and an opaque curtain attached to the spring-actuated roller and having an opening and also having a focusing surface visible through the opening in the body.

1,346,462. ORNAMENTAL ROPE. CHARLES A. REED, Williamsport, Pa. Filed Mar. 15, 1920. Serial No. 365,874. 1 Claim. (Cl. 41—10.)



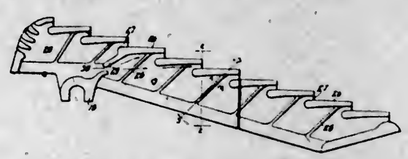
A method of making ornamental rope which consists in securing a plurality of strips of flexible material together along their longitudinal axis, cutting the strips at corresponding points upon opposite sides of their longitudinal axis, and finally twisting the strips longitudinally.

1,346,463. SURGICAL SPLINT. JOHN J. RENOIS, Corsicana, Tex. Filed July 16, 1919. Serial No. 311,266. 1 Claim. (Cl. 128—79.)



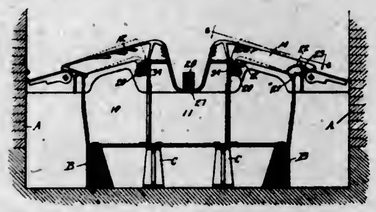
A surgical splint for the purpose described including a pair of elongated thin flat metallic bars arranged in spaced relation and diverging from substantially the central portions of the bars toward the rear of the same, a spring yoke connecting the rear ends of the bars and adapted to allow the same to spring apart, pairs of spiral braces connected between the intermediate portions of the bars and said ring and diverging from such intermediate portions of the bars to the ring, and a spring ring connected between the forward ends of the bars and adapted to allow the bars to spring apart.

1,346,464. FURNACE. JOSEPH H. ROACH, Philadelphia, Pa. Filed Nov. 27, 1917. Serial No. 204,245. 5 Claims. (Cl. 110—47.)



1. A grate for forced draft furnaces comprising a plurality of reciprocatably mounted grate bars, a partition dividing the supporting structure into separate air intake conduits, co-acting members carried by the bars forming a constricted passage by way of the bar structure between the conduits, and means to reciprocate the bars without interfering with the constricted passages.

1,346,465. UNDERFEED-STOKER FURNACE. JOSEPH H. ROACH, Brookline, Pa. Filed Mar. 22, 1919. Serial No. 284,284. 5 Claims. (Cl. 110—47.)



1. A grate for an underfeed stoker furnace composed of a series of juxtaposed grate bars, part of which are stationary and part of which are mounted to reciprocate, a slicer bar mounted for movement in a vertical plane between adjacent stationary bars and about a center located approximately at the lower end of said slicer bar, a reciprocating ram adapted to move the fuel into combustible relation to said grate, and means connecting the ram and slicer bar whereby the slicer bar is elevated twice for each completed cycle of operation of the ram.

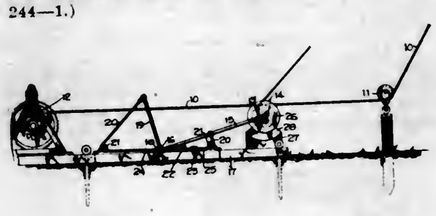
1,346,466. SWIVEL-TRUCK. JOHN H. ROSE, Holyoke, Mass. Filed Nov. 25, 1919. Serial No. 340,637. 4 Claims. (Cl. 280—46.)

1. In a truck, a main frame having side bars, wheels for supporting the same, a swivel connection between the wheels at the forward end of the truck and the main

frame, said swivel having a yoke that is connected to the forward ends of the side bars of the main frame, means for supporting the forward wheels comprising a truck member having parallel arranged and downwardly extending portions, a pin in said portions, a block pivotally supported on said pin and between said portions, said block having an extension thereof, an axle in the extension and at right angles to said pin for attaching and supporting the forward wheel, said truck having an upwardly extending portion for providing a swivel connection with the yoke, whereby the supporting means for the forward end of the truck can freely operate in both a horizontal and vertical plane, and whereby the truck as a whole is always maintained in a position that is substantially parallel with the supporting surface and independent of any great unevenness of said surface, and an operating handle connected to the upwardly extending portion of the swivel connection.

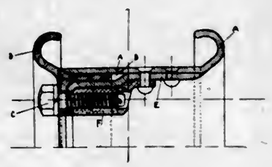


1,346,467. TELEPHONE-REEL. CHARLES H. ROTH, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 14, 1916. Serial No. 125,623. 15 Claims. (Cl. 244—1.)



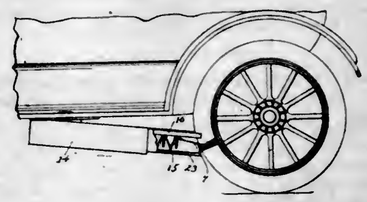
1. The combination with a traveling cable, of a brake element mounted in juxtaposition to said cable, a reel having a brake and cable engaging portion, a swingable frame supporting the reel for movement into engagement with either the cable or the brake element whereby said reel is revolved or tendered inactive, and means connected to the frame for holding the reel in yielding engagement with either the cable or the brake element.

1,346,468. RIM FOR PNEUMATIC-TIRED WHEELS. GIUSEPPE RUBINO, Turin, Italy. Filed June 11, 1919. Serial No. 303,522. 1 Claim. (Cl. 152—21.)



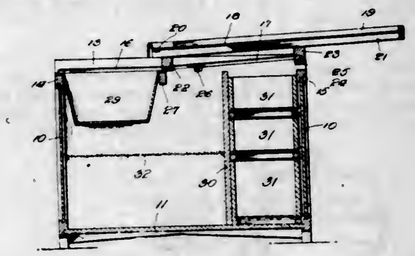
A sectional rim comprising two members one having a tire engaging flange on one side and also having an inner ring, the said inner ring being spaced from said member at the side opposite said flange and being provided at said side with an internal flange, and said member being further provided with lugs secured to said inner ring and arranged in the angle between said inner ring and its inturned flange, said lugs and inturned flange having screw-receiving openings; the other member being telescopically fitted between the first named member and the spaced portion of its inner ring and being also provided with a tire engaging flange and an inwardly extending flange, and screws extending through openings in said inwardly extending flange and having threaded engagement in the openings of the said lug.

1,346,469. AUTOMOBILE-TIRE CHAIN AND HOLDER. JOSEPH SCHNEIDER, Cincinnati, Ohio. Filed July 3, 1918. Serial No. 243,123. 2 Claims. (Cl. 152—14.)



1. In an automobile tire chain and holder, a tire chain comprising cross links with longitudinal side links to which the cross links are secured, said side links made up in sections hinged to each other to fold longitudinally to gather the cross links into close proximity to each other, and a container to hold the chain when folded comprising a fixed section and a movable section, with slotted guideways in the movable section to receive and hold the chain when folded, with means for projecting the movable section from the fixed section to cause the chain to automatically grasp the tire to be drawn from the container.

1,346,470. KITCHEN-CABINET. FRANK H. SCHROEDER, Richmond, Ind., assignor of one-half to Richard E. Edwards, Richmond, Ind. Filed Apr. 18, 1919. Serial No. 290,943. 4 Claims. (Cl. 45—17.)

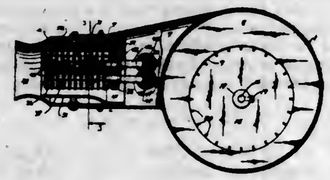


3. A cabinet including a cabinet body, a pan mounted therein, and a top normally overlying the cabinet body in closed position but movable to extended position tilted longitudinally to incline toward the pan, the top being formed adjacent one end with an opening whereby when the top is extended water upon the top will drain through said opening into the pan.

1,346,471. AIR-DIFFUSION MACHINE. VERN SLATER, Iowa City, Iowa, assignor to The Claxo Company, Iowa City, Iowa, a Corporation of Iowa. Filed Jan. 3, 1919. Serial No. 269,399. 6 Claims. (Cl. 219—39.)

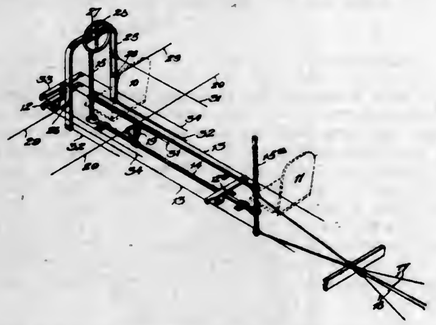
1. An air diffusion machine embodying a portable casing having an enlarged air chamber at one end thereof, an air inlet therefor, an air outlet therefor, and an intermediate chamber provided with means therein operating to draw air through said enlarged air chamber and positively dis-

charge same through said air outlet, the said enlarged air chamber containing a suitably mounted humidifier unit,



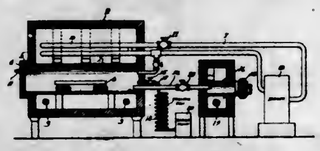
and the said air outlet having a suitably controlled heater unit directly associated therewith, the several elements co-acting to function substantially as described.

1,346,472. AIRPLANE. ARTHUR R. SMITH, Fort Wayne, Ind. Filed Dec. 19, 1918. Serial No. 267,505. 5 Claims. (Cl. 244—29.)



3. In an airplane having places for two occupants, the combination of a set of ailerons, rudder, and elevation flap and dual control meaus therefor, and independently of and operable separately from said parts an extra rudder and control means connected therewith in front of the place of one occupant.

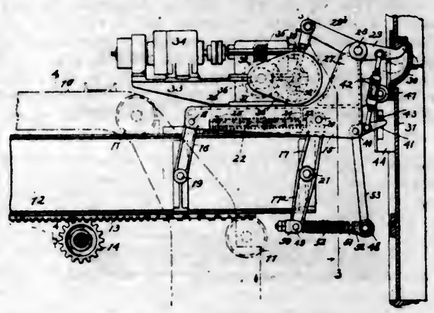
1,346,473. RUST-PREVENTING TREATMENT. WILLIAM R. SWAN, South Bend, Ind., assignor to John J. Woolverton, South Bend, Ind. Filed Jan. 8, 1920. Serial No. 350,137. 7 Claims. (Cl. 148—7.)



1. The process of treating iron and steel articles to form a rust resisting finish thereon, which involves the heating of the articles sufficiently to open the pores thereof while they are positioned in a sealed chamber, producing a partial vacuum within the sealed chamber, and drawing the vapor or gas of a non-corrosive substance into the sealed chamber by the action of the partial vacuum.

1,346,474. OVEN-DOOR-SHIFTING MECHANISM. IVOR D. THOMAS, Cleveland, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 1, 1918. Serial No. 231,979. 12 Claims. (Cl. 254—84.)

1. In a door shifting mechanism, a door moving member, means for moving it toward and from the door, a second member carried by the door moving membed and movably mounted thereon so that it may yield relative thereto on

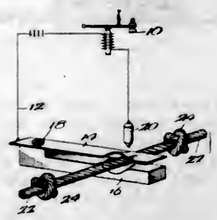


contact with and pressure against the door, and a lifter carried by said second member.

1,346,475. DECORATING METAL SURFACES. KALMAN WARGA, New York, N. Y., assignor to The Metallograph Corporation, New York, N. Y., a Corporation of New York. Filed May 27, 1919. Serial No. 300,134. 12 Claims. (Cl. 41—26.)

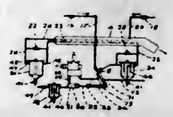
1. The method of producing multi-color decorations on metal articles containing aluminum, which consists in, first, applying to the metal surface a plurality of superimposed color films containing each a mineral pigment and a vitreous binding material, the binding materials melting at different temperatures and the melting point of the film in contact with the metal surface being the lowest, and, second, fixing said films by heat.

1,346,476. STRING MESSAGE-HOLDER FOR WIRELESS OR OTHER TELEGRAPH MECHANISM. MONTRAVILLE M. WOOD, Berwyn, Ill. Filed Apr. 4, 1919. Serial No. 287,547. 3 Claims. (Cl. 178—111.)



3. As a signal switch operator, a cord having knots tied along its length at intervals arranged in accordance with the signals to be given.

1,346,477. COMBINED MOTOR AND FUEL CONTROL. JOHN W. ANDERSON, Jr., Mishawaka, Ind., and ALBERT R. ANDERSON, Chicago, Ill., assignors, by direct and mesne assignments, to The Anderson Company, South Bend, Ind., a Corporation of Indiana. Filed Nov. 6, 1916. Serial No. 129,846. 13 Claims. (Cl. 123—127.)



2. In a combined fuel and motor control an oil fuel supply, a gasolene supply, connections from both to the point of distribution, a carbureter adapted to alternately utilize either kind of fuel, an internal combustion engine.

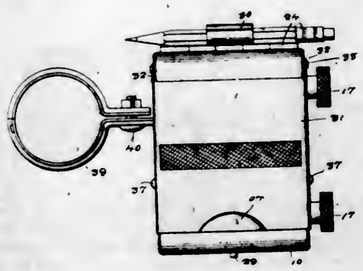
shafts driven thereby, a clutch interposed between the shafts, a lever to control the clutch so as to throw the same off and on, a three-way valve placed between the carbureter and the sources of fuel supply and a suitable link positively connecting the valve and clutch lever the same being so positioned with respect to the valve that when the clutch is off gasolene will be supplied to the carbureter and when the clutch is on oil will be supplied instead.

1,346,478. AUTOMOBILE-BUMPER. LEROY BAUMGARTL, Chicago, Ill. Filed May 6, 1920. Serial No. 379,240. 9 Claims. (Cl. 293—55.)



4. In combination with an automobile, a bumper formed of a cross-bar, arms pivotally supported on the automobile in spaced relation and pivotally connected at their outer ends with the ends of said cross-bar, and spring means operatively engaging said arms and exerting a yielding force thereon tending to swing them at their outer ends toward the center of the automobile.

1,346,479. MEMORANDUM DEVICE. ROBERT J. BELL, Richmond, Va., assignor to Bell's Auto Memo Co., Incorporated, Richmond, Va., a Corporation of Virginia. Filed Aug. 19, 1919. Serial No. 318,474. 6 Claims. (Cl. 282—4.)



1. A memorandum device comprising a casing, a pair of spaced rollers mounted therein for receiving a memorandum strip, a cover hingedly secured to said casing and having spaced slots therein for the passage of the memorandum strips, a protector plate pivotally secured to the cover and adapted to be positioned over the memorandum strip and yieldable means for holding the rollers against rotation.

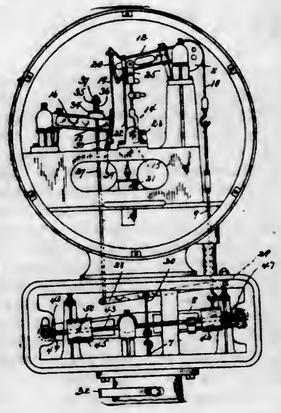
6. A memorandum device comprising a casing having a slot therein, a pair of spaced rollers mounted in said casing for receiving memorandum strips, a cover hingedly secured to said casing and having spaced slots therein for the passage of the memorandum strips, a carbon sheet positioned between said memorandum strips and extending beyond the side edges of the same, a clamping rod engageable with each end of the carbon sheet and having one end pivotally secured to the casing, means carried by the opposite free end of the clamping rod for detachable engagement in openings formed in the casing and yieldable means for holding the rollers against rotation.

1,346,480. FUEL-LINE LOCK. RICHARD E. BIRD, Wichita, Kans. Filed Oct. 16, 1918. Serial No. 258,448. 4 Claims. (Cl. 251—6.)



1. A device of the character described, comprising a casing having a bore extending therethrough, a valve for said bore, said valve having a flanged base, a locking cam designed for engagement with a portion of said base, and a detent adapted for engagement with another portion of said base.

1,346,481. SCALE. JOHN H. A. BOUSFIELD, St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a Corporation of Vermont. Filed July 12, 1918. Serial No. 244,536. 8 Claims. (Cl. 265—62.)

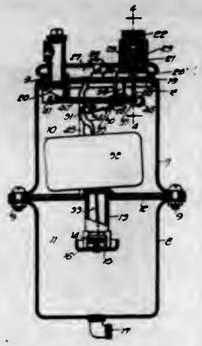


1. In a scale, the combination with a lever, of a pendulum arm, a connection therebetween including an eccentric directly connected to the pendulum arm, a tape extending around a portion of the circumference of the eccentric and connected to said lever, compensating means for maintaining the scale in balance when the scale is placed out of level, said compensating means comprising an oppositely extending auxiliary pendulum arm, and a tape connection between said pendulum arms.

1,346,482. VACUUM FEED MECHANISM. CLIFFORD C. BRADBURY, Oak Park, Ill. Filed Oct. 24, 1919. Serial No. 332,908. 10 Claims. (Cl. 158—36.)

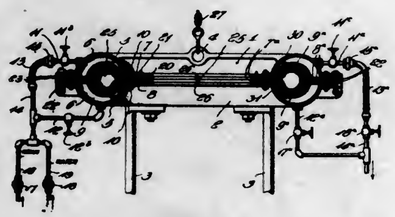
1. A snap action device for fuel feed tanks, comprising a plurality of inter-connected levers forming two snap ac-

tions, spring means for operating said actions, the operation of one of said actions being dependent upon the opera-



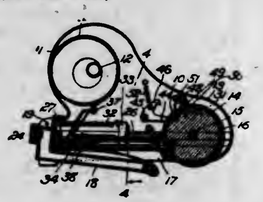
tion of the other of said actions, and occurring immediately after the operation of said other action.

1,346,483. TIRE-VULCANIZER. GEORGE B. COOPER, Cleveland, Ohio. Filed Apr. 3, 1919. Serial No. 287,134. 2 Claims. (Cl. 18—38.)



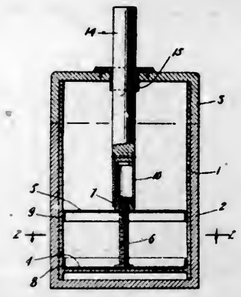
1. A tire vulcanizer comprising two sections each consisting of a jacket ring having projecting flanges on its inner and outer peripheries disposed in a common plane at right angles to the axis of the ring, said ring having a circumferential channel between said flanges opening on said plane, a plurality of mold rings for different sized tires, any one of said mold rings being receivable in said channel in spaced relation with the wall thereof, all of said mold rings having flanges on their inner and outer peripheries and of the same size as the jacket ring flanges; and quick-detachable means for tightly though detachably connecting the flanges of any jacket ring with those of said mold ring; together with means for detachably connecting the two sections, with the mold ring flanges of one section contacting with the corresponding flanges of the other section, and means for supplying a heating medium to the channels of the two jacket rings.

1,346,484. STAMP-AFFIXING MACHINE. HARRY H. DANIELS, Winthrop, Mass., assignor to The Service Machines Company, Boston, Mass., a Corporation of Massachusetts. Filed May 7, 1917. Serial No. 166,887. 18 Claims. (Cl. 216—33.)



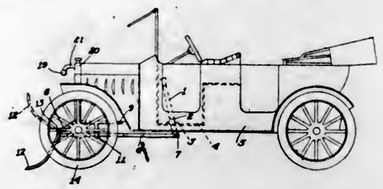
4. A stamp affixing machine, comprising a portable housing adapted to be held in the hand and pressed upon a stamp-receiving surface, a magazine stamp holder, an applying roll constructed and arranged to apply stamps by drawing the same over the receiving surface in frictional contact therewith, and a water tank equipped with an applying wick yieldingly mounted in advance of said roll in the direction of operative movement, the yielding of said wick permitting both it and said roll to engage simultaneously the stamp-receiving surface in varying angular positions of said housing.

1,346,485. DEVICE FOR THE PREPARATION OF COFFEE OR LIKE BEVERAGES. MANUEL DE ARRIGUNAGA, New York, N. Y. Filed May 13, 1918. Serial No. 234,073. 10 Claims. (Cl. 53—3.)



1. The combination of a container and a detachable heat insulating casing surrounding said container and comprising a body and a removable cover, said cover co-acting with said body to completely inclose said container.

1,346,486. LIFE-SAVER AUTOMOBILE ATTACHMENT. MARIA DOUJAK, New York, N. Y. Filed Jan. 2, 1920. Serial No. 348,829. 3 Claims. (Cl. 293—45.)



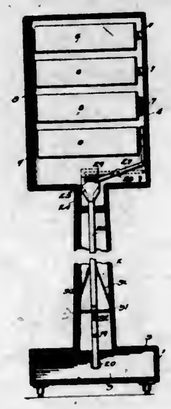
1. In combination with a motor vehicle, a frame attached to the under side of said vehicle, a fender hingedly supported by said frame, and means slidably supported by said frame for partly rotating said fender about its hinged edge.

1,346,487. CLOTHESLINE-COUPLING. HELEN F. DOYLE, Waterbury, Conn. Filed Mar. 29, 1920. Serial No. 369,457. 2 Claims. (Cl. 24—123.)



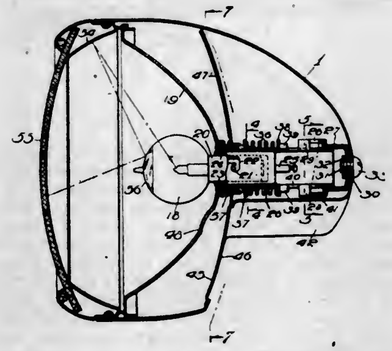
1. A clothes-line coupling comprising two members each formed with a socket, with which the ends of a clothesline may be connected—one member formed with a longitudinal slot and a transverse slot connected by an unalined slot, and the other member formed with a neck and a head adapted to enter the longitudinal slot and be moved into the transverse slot, whereby the two members are coupled together.

1,346,488. ADVERTISING ATTACHMENT FOR SCALES. ARTHUR NEAL FUNK, Fort Worth, Tex. Filed July 24, 1919. Serial No. 313,000. 4 Claims. (Cl. 40—39.)



1. In combination with a platform scale, of an auxiliary platform hinged at one end to the upper face of the scale platform; a series of similar display members of polygonal cross section, having display matter on their faces, and mounted to rotate on parallel axes, means for constraining them to rotate together, and a connection between the auxiliary platform and one of the members for rotating said members through a predetermined arc when the auxiliary platform is depressed, said connection being releasable, and means for releasing the same when the auxiliary platform is fully depressed.

1,346,489. VEHICLE-SEARCHLIGHT. JOHN E. GENN, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Sept. 9, 1918. Serial No. 253,135. 12 Claims. (Cl. 240—41.)

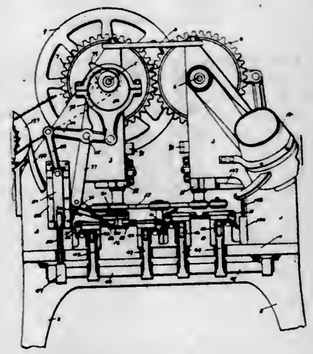


1. In combination with a lamp body having a supporting arm extending horizontally therefrom, a lamp-carrying member in which said supporting arm is journaled, comprising a continuous integral strip having its middle portion bent around said arm to embrace it, and having the end portions extended parallel to each other; a bracket member which is interposed between said parallel end portions, and a clamping bolt adapted to serve also as a pivot, which extends through said parallel arms and the intervening bracket member for clamping the said arms against the opposite sides of the bracket member, and simultaneously clamping the bent middle portion onto the supporting arm.

7. In a searchlight, the combination with a focusing reflector and a casing in which it is mounted having a back wall spaced back from the reflector; an electric lamp bulb and a carrying tube therefor; a guide bearing for the forward end of the tube secured at the center of the reflector; a guide bearing for the rear end of the tube mounted rotatively on the back wall; the forward end bearing and the tube having coöperating members for guiding the tube longitudinally and preventing its rotation, and the rear bearing in the tube having coöperative cam means for forcing the tube forward by the rotation of the rear bearing and a spring which resists such forward movement of the tube.

8. In a searchlight, in combination with a casing and a lamp mounted therein, the casing having a rear opening and a member mounted for turning on a fore-and-aft axis, having an opaque part which at one position closes the opening and another part consisting of a translucent colored screen which at another position within the range of turning of said member about said axis registers with said opening in the casing.

1,346,490. MACHINE AND METHOD FOR SHAPING AND ASSEMBLING BLANKS. ALEXANDER W. GEORGE, Brooklyn, N. Y., assignor of one-half to Samuel H. Baer, Brooklyn, N. Y. Filed Mar. 23, 1918. Serial No. 224,168. 57 Claims. (Cl. 113—1.)



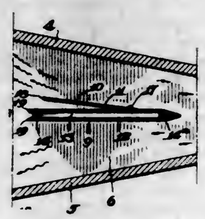
1. In an apparatus of the character described, in combination, means adapted to dispose a tubular blank having a movement limiting element so that said movement limiting element occupies a predetermined position in space around the longitudinal axis of said blank, comprising guides between which the blank is adapted to move and a blank gripper adapted to translate the blank between said guides, and means adapted to assemble another tubular blank, having a movement limiting element, in telescopic relation to said first-mentioned blank with the movement limiting elements of said blanks in coöperative relation.

47. The method of assembling a cap blank and a neck blank and effecting registry between movement limiting elements of said blanks, comprising positioning one of each kind of blank so that the movement limiting element of one has a predetermined relation in space to the movement limiting element of the other, and thereafter assembling the two blanks and the movement limiting elements thereof in coöperative relation by a movement of one blank relative to the other, said movement including a rotary movement of only one blank relative to the other.

1,346,491. SOUND-AMPLIFYING DEVICE. THOMAS H. GRIGG, Philadelphia, Pa. Filed Dec. 11, 1919. Serial No. 344,091. 2 Claims. (Cl. 181—27.)

1. In a sound amplifying device, a wall forming a passage having an inlet and an outlet for sound waves, a

sound amplifying panel having one of its end portions fixed and the remaining portion thereof free to vibrate in said passage and having a face exposed to the path of



sound waves traversing said passage, and a sound amplifying wing having one end secured to the portion of the panel which is free to vibrate and having another end which is free to vibrate within said passage.

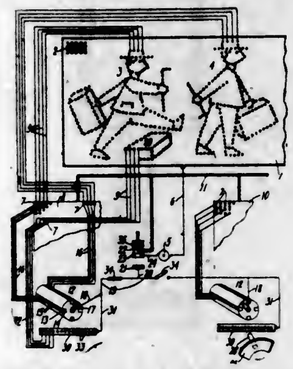
1,346,492. AUTOMOBILE-RADIATOR AND METHOD OF MAKING SAME. LAURENCE G. HANMER, Brooklyn, N. Y., assignor to The A-Z Company, New York, N. Y., a Corporation of New York. Filed Jan. 31, 1918, Serial No. 214,738. Renewed Dec. 16, 1919. Serial No. 345,302. 12 Claims. (Cl. 113—116.)



1. The method for making strip-units for radiators, consisting in folding a strip of flexible sheet material longitudinally so as to produce two thicknesses of material joined by a single rounded bend at one edge and with the opposite edges separated and devoid of bends, and then corrugating said double-thick material so that the corrugations will conform to each other both longitudinally and transversely of the strip-unit.

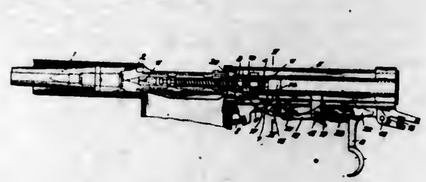
7. A strip-unit for automobile radiators consisting of a piece of double-thick, flexible sheet material having a folded or seamless longitudinal edge and an open edge, and having a plurality of plaits, ribs or corrugations extending transversely thereof in parallelism from the folded edge to the open edge of the double-thick strip, said thicknesses of the strip having at the open edge of the latter offsets or bulged portions extending from end to end of the strip.

1,346,493. ILLUMINATED SIGN. WILLIAM P. HAMMOND, Passaic, N. J., and EDMUND QUINCY MORRS, New York, N. Y. Filed Apr. 30, 1915. Serial No. 25,085. 14 Claims. (Cl. 177—346.)



10. An illuminated display sign comprising the combination with a bank of lamps of a multiple contact switch, and means for interchangeably connecting any contact of said switch in circuit with any lamp or group of lamps.

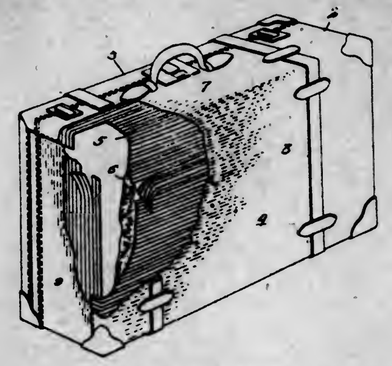
1,346,494. AUTOMATIC RIFLE. ERNST HÄNNI, Arbon, and HANS STAMM, St. Gallen, Switzerland, assignors to Firma Adolphe Saurer, Arbon, Switzerland, a Firm of Switzerland. Filed Feb. 27, 1918. Serial No. 219,512. 4 Claims. (Cl. 42—4.)



1. In an automatic rifle, a sliding barrel, a breech frame connected rigidly with the barrel, a breech action adapted to be rigidly connected to the breech frame, a striker mounted in the breech action, a casing into which the sliding barrel, together with the breech frame, is adapted to enter, means for retaining the striker in cocked position, means for locking the barrel when the striker is cocked, a trigger carried by the casing and means operatively connected to such trigger and operated thereby for releasing the striker and releasing the barrel immediately after a releasing of the striker and before the striker strikes against the cartridge.

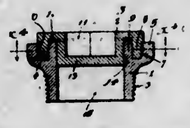
1,346,495. BODY STRUCTURE FOR TRAVELING BAGS, CASES, AND THE LIKE. JOHN HEINEL, Rockford, Ill. Filed Jan. 27, 1919. Serial No. 273,317. 1 Claim. (Cl. 190—53.)

A traveling case formed of a three-ply body comprising a facing material, a lining and an interposed reinforcing body of narrow fibrous or cane strips laid side by side, said plies being united by an adhesive so as to constitute a composite body, the case having sides and ends formed of said composite body, the ends being arranged with the strips running vertically and the side portions with the strips running horizontally, the end edges of said side portions being turned inwardly over and crosswise of the



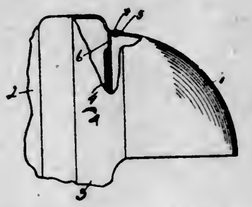
end sections forming angular corners integral with the sides, and stitching uniting the turned over edges and said end sections.

1,346,496. WASHOUT-PLUG. ROBERT B. HOUSLEY, Indianapolis, Ind. Filed Mar. 17, 1919. Serial No. 283,115. 6 Claims. (Cl. 220—39.)



1. A washout plug comprising a nipple having an annular groove in one end, the outer wall of the groove being provided with screw-threads and the inner wall of the groove projecting outward beyond the plane of the outer end of the outer wall of the groove, and a cap having a flange provided with screw-threads adapted to engage the screw-threads of the nipple.

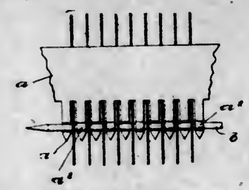
1,346,497. DIMMER-SHIELD FOR LAMPS. PARKER JENKINS, Philadelphia, Pa. Filed Aug. 21, 1917. Serial No. 187,338. 2 Claims. (Cl. 240—48.4.)



1. In a device of the character stated a lamp rim having an arcuate section of its metal partially cut therefrom and bent to produce a flange and a dimmer shield having one edge thereof attached to said flange.

1,346,498. SPACING-CLAMP FOR WARP-THREADS AND OTHER PURPOSES. CHARLES LEA, Boston, Mass., assignor to American Warp Drawing Machine Company, Boston, Mass., a Corporation of Maine. Filed Aug. 31, 1915, Serial No. 48,221. Renewed Oct. 11, 1919. Serial No. 330,140. 7 Claims. (Cl. 139—94.)

3. A spacing clamp embracing in its construction a comb having resilient teeth formed with open off-set portions, some facing to one side and others to the other side to form retaining eyes, a longitudinal retaining member capable of being passed through said eyes longitudinally to close the open ends of the space between the teeth, said retaining member being of a diameter to be pinched by the



resilient teeth to hold it frictionally against longitudinal slipping, substantially as described.

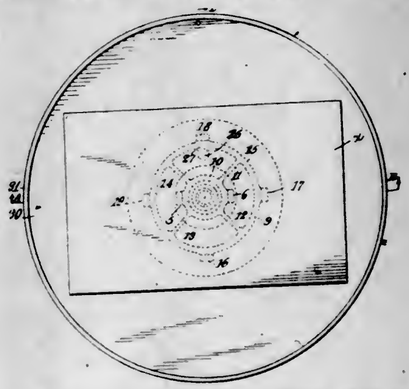
1,346,499. ILLUMINATED SIGN. ALEXANDER S. LIMPERT, Pittsburgh, Pa., assignor to Golden Glow Sign Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1918. Serial No. 268,909. 10 Claims. (Cl. 40—130.)



1. In a sign, the combination of a casing having a lens support, a series of lenses outlining a character in the outer face of said support, a lamp disposed within the casing and positioned substantially centrally of and behind the lenses composing the character thus outlined, and a set of reflecting mirrors individually cooperating with said lenses, members of said set inwardly inclined in different directions toward said lamp from co-planar points in said reflectors constructed and arranged whereby each of the latter directly reflects the image of the lamp filament through that character-outlining lens with which it cooperates.

1,346,500. [WITHDRAWN.]

1,346,501. GRAINER FOR PLANOGRAPHIC PLATES. WILLIAM H. LONG, New York, N. Y. Filed Aug. 18, 1916. Serial No. 115,729. 3 Claims. (Cl. 51—12.)



1. A grainer for planographic printing plates including in combination a plate box, and devices for simultaneously rotating and rocking the box.

1,346,502. MAILING DEVICE. SAMUEL A. MARKOFF, Providence, R. I. Filed May 9, 1918. Serial No. 233,584. 1 Claim. (Cl. 281—6.)



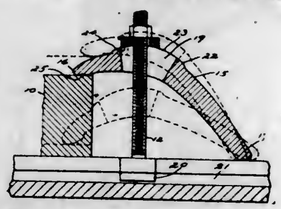
A mailing device comprising a light, rigid, flat, oblong platen having a substantially smooth surface and extensions at opposite sides of both ends extending in the direction of the longitudinal axis of said platen, a continuous web of writing paper wound upon said platen in the direction of said longitudinal axis and confined by said extensions, said platen having its opposite end edges rounded in the longitudinal direction to prevent rupture of said paper when wound thereon, the longitudinal edges of said platen being adapted to be grasped in the palm of the hand and thereby supported during the writing operation so that the end of the web is free from interference with the hand, said platen providing a rigid writing surface when so held, and means for securing the free end of said web to the adjacent surface thereof to prevent unwinding of said web.

1,346,503. TIRE. SHAVERKSHA D. MASTER, Broach, India. Filed July 11, 1919. Serial No. 310,035. 3 Claims. (Cl. 152—17.)



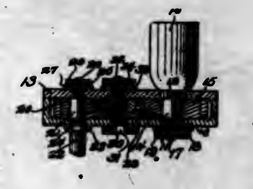
2. A tread member for tires comprising flexibly connected sections arranged end to end, in combination with a metallic backing plate; the said plate being straight and having transversely corrugated portions at intervals opposite the spaces between the flexibly connected sections.

1,346,504. WORK-HOLDING DEVICE. ALBERT OLAI MATHISON, New Britain, Conn. Filed Jan. 29, 1919. Serial No. 273,735. 1 Claim. (Cl. 90—59.)



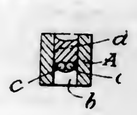
A work holding device operating as a lever of the third class in coöperation with a clamping device in the form of a bolt and nut, comprising a work engaging branch and a power arm branch that meet at an angle at an apex portion that is slotted and rounded for receiving the clamping means, and in all positions of use the said power arm branch being appreciably elongated relatively to the said work engaging branch and positioned relatively to the said work engaging branch so that the said angle is an obtuse angle.

1,346,505. SOCKET-WRENCH. ROY MITCHELL, Enid, Okla. Filed Oct. 8, 1917. Serial No. 195,405. 2 Claims. (Cl. 81—57.)



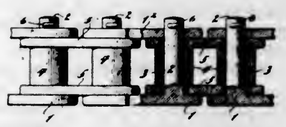
1. A socket wrench comprising a brace in the form of a crank having a non-circular shank portion, a driving gear fitted to said non-circular shank portion, a driven gear having a non-circular central opening, a nut-receiving socket having a shank provided with a non-circular portion arranged in and conforming to said non-circular opening, an intermediate gear meshing with said driving gear and driven gear, a gear case comprising an elongated wall member having a marginal flange surrounding all of said gears and an elongated cover plate seated on the edge of said marginal flange to form a wall member for the gear case, said edge of the marginal flange having lugs and the cover plate having notches in which said lugs are mounted to prevent edgewise displacement of the cover plate, the shanks of said brace and socket being rotatably mounted in the wall members of said gear case.

1,346,506. ARRANGEMENT AND CONNECTOR FOR THE JOINTING OF ELECTRICAL WIRES. JOHANNES SÖRENSEN MÖLLERHÖJ, Frederiksberg, near Copenhagen, Denmark. Filed Mar. 6, 1919. Serial No. 280,999. 5 Claims. (Cl. 287—79.)



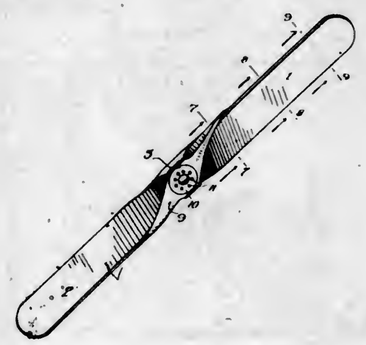
1. A connecting device for electric wires comprising a body recessed to receive the wire and to expose a part of the wire laterally thereof, and a soft sealing plug fitting in said recessed portion to be engaged by the body independently of the wire and normally leaving the recess free to receive the wire and in operation engaging the wire from one side only, and adapted to be pressed into binding engagement against said laterally exposed part of the wire.

1,346,507. METHOD OF MAKING CHAINS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to The Whitney Mfg. Co., Hartford, Conn., a Corporation of Connecticut. Filed June 10, 1916. Serial No. 102,819. 5 Claims. (Cl. 59—35.)



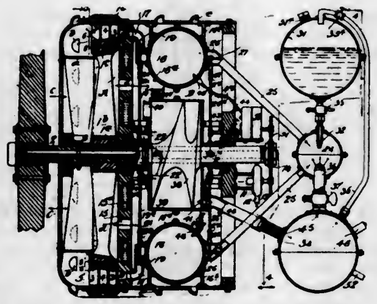
1. The method of making a link and pin chain unit which consists in forming a link and a pin separate therefrom, and providing the link with a socket having a cam face, and the end of the pin with a cam face adapted to cooperate with the cam face in the socket to center the pin in the socket, and welding the pin in place while centered in the socket.

1,346,508. PROPELLER. VLADIMIR OLHOVSKY, New York, N. Y., assignor to Ernst J. Ohnell, Brooklyn, N. Y. Filed May 31, 1918. Serial No. 237,619. 4 Claims. (Cl. 170—159.)



1. A propeller comprising hollow blades having corresponding edges secured together, plates secured to the inner edges of such blades, and reinforcing members secured upon adjacent ends of said blades and to said plates.

1,346,509. EXPLOSION GAS-TURBINE. VLADIMIR OLHOVSKY, New York, N. Y., assignor to Ernst J. Ohnell, Brooklyn, N. Y. Filed Sept. 14, 1918. Serial No. 254,028. 6 Claims. (Cl. 60—41.)



1. The combination of a motor having a rotor, an explosion chamber, means to deliver burning gases therefrom to the rotor, a carbureting chamber, a conduit providing communication between the carbureting chamber and explosion chamber, means to periodically open and close communication between said chambers, a tank for liquid fuel for communication with the carbureting chamber, means to supply air under pressure to the carbureting chamber and to the fuel tank for production of an inflammable mixture, and means to ignite such mixture in the explosion chamber periodically.

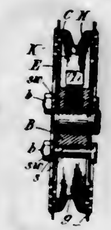
1,346,510. STOPPER FOR BOTTLES AND SIMILAR CONTAINERS. HENRY P. ROBERTS, Boston, Mass., assignor, by direct and mesne assignments, to Rodik Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 5, 1919. Serial No. 280,705. 6 Claims. (Cl. 215—88.)

5. A stopper comprising a layer of compressible material, a clasp having a plurality of prongs to engage the under side of the rim of the bottle, a cap the edge of which contacts with the upper surface of said prongs, and means acting on the said clasp and tending to move the center of the clasp about its points of engagement with the cap as fulcrums and thereby force the outer ends of the said prongs inwardly toward the neck of the bottle.



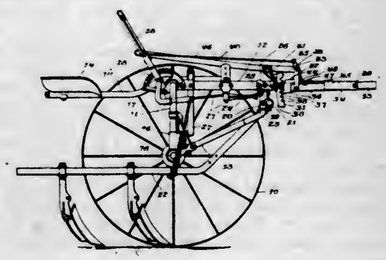
6. A bottle closure comprising a cap, a clasp on the under side of the cap having laterally extending arms which terminate in inwardly turned hooks, projections on the clasp which extend upwardly through the top of the cap, and a lever connected therewith whereby said clasp may be drawn up tightly within the cap and causing the said arms to be slightly bent over the rim of the cap as a fulcrum thereby drawing the ends of the hooks inwardly into closer relation with each other, and a layer of resilient material on the under side of the clasp.

1,346,511. WHEEL OR PULLEY. RICHARD HAWKE ROGERS, London, England. Filed Apr. 23, 1918. Serial No. 230,365. 8 Claims. (Cl. 64—17.)



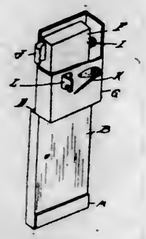
1. A pulley comprising similar end-disks, each disk having waved annular corrugations on both faces of the plate and being provided with tab-receiving slots, and a strip of rigid sheet material with lateral tabs bent into tubular form with the opposite ends of the tube clamped between the faces of the disks and engaged by the corrugations thereof and with the lateral tabs engaged in the tab-receiving slots.

1,346,512. CULTIVATOR. CHARLES S. SHARP, Auburn, N. Y., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Dec. 24, 1917. Serial No. 208,679. 4 Claims. (Cl. 97—35.)



1. In a cultivator, a frame, a tongue vertically hinged thereto, means for raising and lowering the tongue with respect to the frame, a segment carried by the frame and forming a guide for the end of the tongue.

1,346,513. SCALE-HOLDER. ALEX SIMONS, Detroit, Mich. Filed Feb. 27, 1919. Serial No. 279,632. 9 Claims. (Cl. 24—3.)



2. A scale holder comprising a pair of superposed plates respectively formed upon opposed lateral edges with a pair of coacting jaws for engaging a scale, spring means for closing said jaws upon the scale, a releasing lug projecting from one of said jaws, and means for attaching the holder to a garment.

1,346,514. VEHICLE-TIRE. WILLIAM SMALL and JOHN G. SMALL, Paterson, N. J. Filed Dec. 12, 1919. Serial No. 344,289. 2 Claims. (Cl. 152—8.)

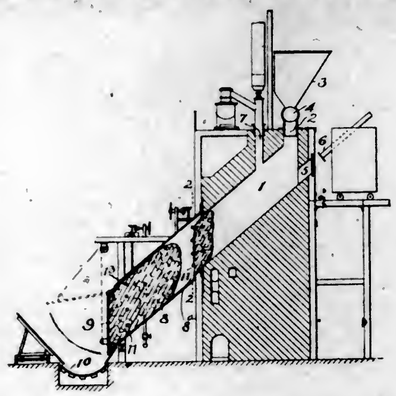


2. In combination, with a fixed tire-supporting part of a wheel, arched spring members arranged at intervals around said part and having their end portions folded inwardly upon themselves and terminating in curves having their convex faces toward each other, the folds of said end portions being opposed to opposite surfaces of said part facing sidewise of the wheel, a hollow resilient tire shoe open continuously thereof at the inside and fitted over said springs and having its edge portions flanking the folds thereof, and means to clamp said spring-folds and the shoe edge-portions to said part.

1,346,515. APPARATUS FOR PRODUCING COKE. ARTHUR M. SMITH, Cleveland, Ohio. Filed June 2, 1917. Serial No. 172,374. 6 Claims. (Cl. 202—9.)

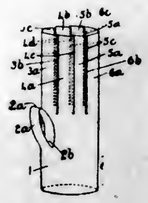
1. An apparatus for coking and quenching coal comprising a coking chamber having an inlet whereby coal may be fed to the same, also having an outlet, a quenching chamber permanently associated with the coking chamber and forming in effect an extension of the coking chamber, a gate adjacent the outlet of the coking chamber, said gate being adapted to be moved transversely of the coking chamber, a similar gate associated with the quenching chamber adjacent the lower portion thereof, and an airtight door closing the lower portion of the quenching chamber and excluding the air from said quenching chamber.

6. The process which consists in coking coal in a coking chamber provided with a quenching chamber permanently in alinement therewith, severing a portion of a previously coked mass and holding the same as a plug at the end of a coking chamber against which plug the new charge to be coked may rest, and permitting a previously



coked mass to pass into the quenching chamber and be separated from the said coke plug by an air space and maintaining this relationship until the mass in the quenching chamber is sufficiently cool.

1,346,516. KNITTED GLOVE AND METHOD OF PRODUCING THE SAME. GODFREY STIBBE, Leicester, England. Filed Aug. 8, 1916. Serial No. 113,728. 6 Claims. (Cl. 66—4.)



4. As a new article of manufacture, a machine knitted glove, comprising a seamless tubular hand, an integral thumb, a series of fingers knitted in the flat and with selvaged edges as jointless continuations of the tubular hand, the aggregate loops in the courses of the combined fingers being greater than the number of loops in the courses of the hand, and the thumb being seamed upon two opposite sides and at the extremity.

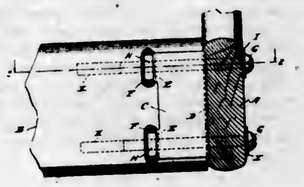
1,346,517. KNITTED GLOVE AND METHOD OF PRODUCING THE SAME. GODFREY STIBBE, Leicester, England. Original application filed Aug. 8, 1916, Serial No. 113,728. Divided and this application filed Mar. 12, 1920. Serial No. 365,310. 12 Claims. (Cl. 66—4.)



1. A knitted glove formed in one continuous piece and having a circularly knit seamless wrist and hand and

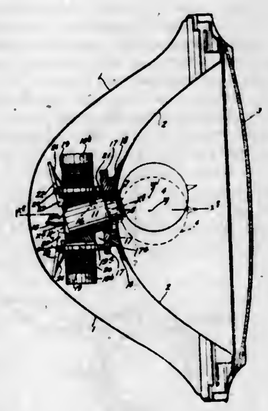
fingers integral with the hand, at least one of the finger strips being seamed on the hand at the base of one side only of such finger or fingers.

1,346,518. LADDER. CLAUDE M. WAGGONER, Riverside, Calif., assignor of one-half to Isaac B. Potter, Riverside, Calif. Filed Dec. 26, 1919. Serial No. 347,268. 6 Claims. (Cl. 228—58.)



1. In a ladder, the combination with a stile, a step, and a joint plate engaging the lower side of said step and having on one side a flange extending over the end face of the step and on the other side a projection extending into a recess in the lower side of the step, of a bolt extending through the stile, said flange, said projection and the intervening portion of the step to bind stile and step together.

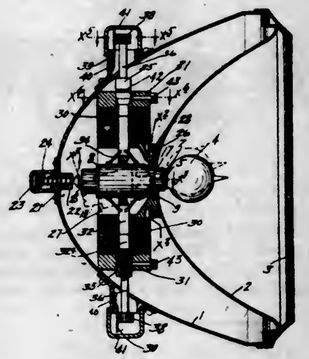
1,346,519. HEADLIGHT. OVERTON WINSTON, Minneapolis, Minn. Filed Mar. 27, 1916. Serial No. 86,851. Renewed Dec. 12, 1919. Serial No. 344,463. 10 Claims. (Cl. 240—44.)



1. A lamp holding socket comprising a relatively fixed sleeve and a lamp holding collar having threaded engagement therewith, in combination with a lamp rotatably adjustable in said collar and adapted to be set therein in different rotary adjustments in respect thereto.

1,346,520. HEADLIGHT. OVERTON WINSTON, Minneapolis, Minn. Filed Dec. 2, 1915. Serial No. 64,661. Renewed Dec. 12, 1919. Serial No. 344,464. 13 Claims. (Cl. 240—44.)

1. In a headlight, the combination with a reflector and a lamp, one of said members being movable axially in respect to the other, one of said members being movable transversely of the axis of said reflector, and the said lamp being rotatably adjustable on its axis, independently



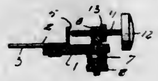
of said other adjustments and without changing its adjustment longitudinally of its axis.

1,346,521. GOVERNOR. WALTER H. YOUNG, Highland Park, Mich. Filed Mar. 28, 1918. Serial No. 225,168. 16 Claims. (Cl. 137—152.)



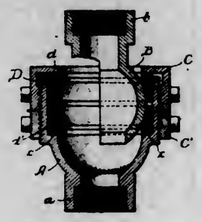
10. The combination with a gas engine having periodic suction operation, the rate of which is proportional to the engine speed, of a governor for such an engine comprising a vibrator member deriving alternating reversed periodic impulses from the suction of the engine.

1,346,522. AUXILIARY SPARK-GAP. HARVEY P. ALTMAN, Findlay, Ohio. Filed Mar. 30, 1918. Serial No. 225,814. 1 Claim. (Cl. 175—183.)



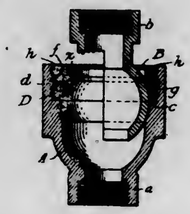
A spark plug gap comprising an insulated base, a plate secured to one end of the base and having one end projecting beyond said base and bifurcated to form a pair of spaced resilient gripping arms adapted to engage the electrode of a spark plug, said plate having its other end disposed at right angles to form an auxiliary stationary electrode, a member having a threaded shank extending through the base and receiving a nut for securing an electrical feed wire thereto, a threaded auxiliary movable electrode adjustably carried by the member, and a nut threaded on the movable electrode for locking the same in adjusted positions.

1,346,523. COMPOSITE NON-METALLIC GASKET. FRANCIS NORWOOD BARD, Highland Park, Ill. Filed Aug. 30, 1919. Serial No. 320,752. 15 Claims. (Cl. 285—91.)



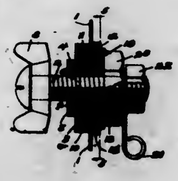
1. A composite non-metallic gasket comprising, in combination, a relatively softer wearing surface adapted to conform to a seat and a relatively harder and rigid non-metallic facing united thereto to prevent distortion thereof.

1,346,524. COMPOSITE NON-METALLIC GASKET. FRANCIS NORWOOD BARD, Highland Park, Ill. Filed Nov. 1, 1919. Serial No. 335,020. 17 Claims. (Cl. 285—91.)



1. In a stuffing-box, the combination with an interiorly threaded casing, and a member movable therein, of an exteriorly threaded self accommodating packing for preventing the passage of fluid between said movable member and casing.

1,346,525. BINDING-POST. FRANK G. BEETEM, Washington, D. C. Filed Feb. 6, 1919. Serial No. 275,348. 1 Claim. (Cl. 173—259.)



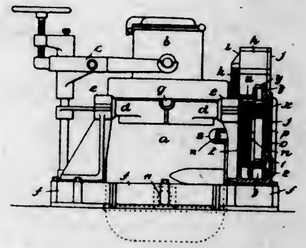
A binding-post consisting of a centrally apertured insulating member having a reduced portion on one side thereof adapted to project through the opening in the binding-post support, notches in the periphery of said reduced portion adapted to engage projections in said support opening, a nut adjacent the other face of said insulating member, means connecting said nut and insulating member, an insulating washer adapted to fit on the reduced portion of said insulating member, a bolt extending through all of said members and the support, means connecting said nut to the bolt, said connecting means being held in place by said first mentioned insulating member, means on said bolt for drawing said insulating members into clamping engagement with the support, and conductor-engaging means on said bolt.

1,346,526. STOVE-LEG. LU ELLA BENNETT, Sutherland, Mont. Filed July 6, 1917. Serial No. 178,988. 1 Claim. (Cl. 126—304.)



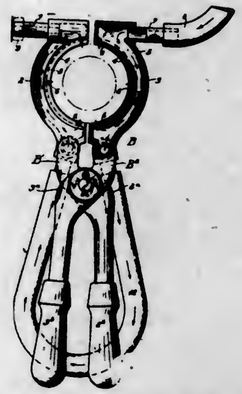
A stove leg comprising an inclined body portion of arcuate form in cross section, a laterally projecting flange extending in one direction from the upper end of the body portion and adapted to be secured to the body of a stove, a hollow supporting base formed at the lower end of said body portion and offset from said flange, a bracket carried by said supporting base, a caster mounted in said bracket, an arm pivotally mounted on said supporting base, and a pin carried by said arm and adapted to engage said caster to prevent rotation thereof.

1,346,527. SMELTING-FURNACE. DOUGLAS BROOKFIELD, Holloway, London, England. Filed Mar. 21, 1919. Serial No. 284,195. 2 Claims. (Cl. 263—12.)



1. In a smelting furnace of the tip-axis type, the combination with the blowing mechanism of tilting mechanism comprising a set of gear wheels mounted at the axis on which the furnace is tilted, a second set of gear wheels driven thereby, a spindle on which said second set of gear wheels is mounted, said spindle being connected to the furnace at a distance from the tilting axis, a plurality of sectoral racks engaging with said second set of gear wheels, and means for driving the first set of gear wheels.

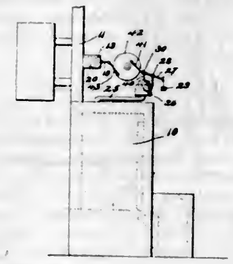
1,346,528. GLASS-SEVERING IMPLEMENT. HARRY M. BROWN, Brooklyn, N. Y., assignor to Spring Stopper Company, Brooklyn, N. Y., a Corporation of Delaware. Filed Aug. 20, 1919. Serial No. 318,670. 4 Claims. (Cl. 49—14.)



1. An implement of the character set forth, comprising a pair of pivotally-connected levers equipped with jaws

provided with channels and having perforations opening at their biting surfaces, and means for circulating cooling fluid through said channels.

1,346,529. AUTOMATIC GAS-PRESSURE REGULATOR. HERMAN BURGI, Springfield, Mass., assignor of one-half to Charles H. Tenney, Springfield, Mass. Filed Nov. 24, 1919. Serial No. 340,428. 7 Claims. (Cl. 236—15.)



1. A valve structure comprising a conduit having a passageway therethrough and a valve chamber extending laterally therefrom, a rolling valve resting and rolling on the bottom of said valve chamber and having a projection adapted to extend across and close said passageway when the valve is rolled to one end of its path of travel and to open said passageway when rolled in the other direction.

2. A valve structure comprising a conduit having a passageway therethrough and a valve chamber extending laterally therefrom, a substantially balanced rolling valve resting and rolling on the bottom of said valve chamber and having a projection adapted to extend across and close said passageway when the valve is rolled to one end of its path of travel and to open said passageway when rolled in the other direction.

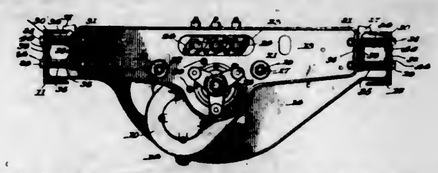
3. A valve structure comprising a conduit having a passageway therethrough with a valve chamber extending therefrom laterally of the same width as said passageway and having a bottom or floor, a valve extending across said valve chamber having a transversely curved portion adapted to roll on said floor and a projecting portion adapted to extend across said passageway in contact with the walls thereof to close the same when said valve is rolled to proper position.

4. A valve comprising a semi-cylindrical portion and a tangential projecting portion, the material on the side including the projection being only such as will substantially balance that on the other side of the center of the semi-cylindrical portion whereby the valve will roll easily carrying the projection through a considerable arc and will unaided remain in adjusted position.

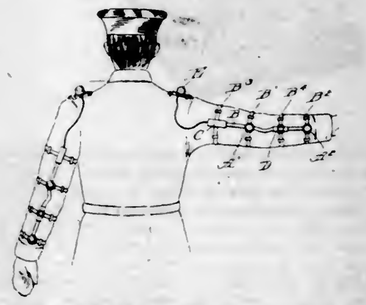
5. A pressure and vacuum control mechanism comprising a fluid conduit having a valve chamber extending laterally therefrom, a substantially balanced rolling valve resting and rolling on the bottom of said valve chamber and having a projection adapted to extend across and close said conduit when said valve is rolled to one end of its path of travel, means connected to said valve for rolling it and extending to the exterior of said valve chamber and automatic pressure or vacuum controlled means for operating said rolling means.

1,346,530. MOTOR-VEHICLE. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 29, 1917. Serial No. 194,033. 15 Claims. (Cl. 180—70.)

1. The combination with a motor vehicle frame of a gear set casing and means for supporting the same from the said frame comprising a beam member carried by the frame secured to one end of the casing and a beam of channel section swivelly supporting the other end of the casing, the flanges of said channel beam extending toward the casing, the top flange being adjacent the top of the casing, and the bottom flange the bottom of the casing.

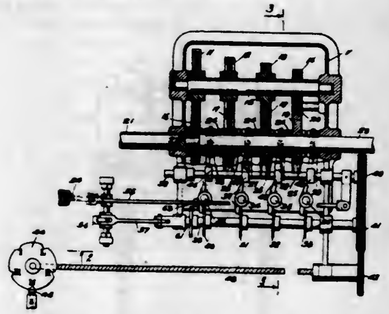


1,346,531. PORTABLE SIGNAL SYSTEM. BENJAMIN W. DAVIS, Chicago, Ill. Filed Mar. 28, 1916. Serial No. 87,182. 3 Claims. (Cl. 177—329.)



1. In a portable signal system, the combination with a battery, of a plurality of electric lamps, means for supporting said lamps in spaced relation upon the arm of an operator, an automatic switch secured to the arm of the operator for controlling said circuit upon predetermined movements of the operator's arm, another lamp mounted upon the operator, and a normally-closed circuit for said last-mentioned lamp.

1,346,532. GEAR-SHIFT. WILLIAM GEO. DRUMMOND, Los Angeles, Calif. Filed May 19, 1919. Serial No. 298,220. 9 Claims. (Cl. 74—59.)



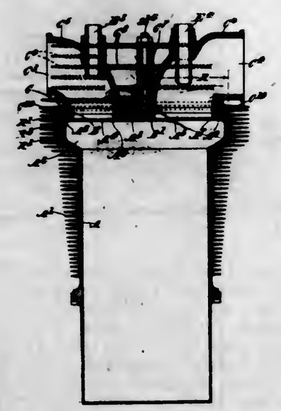
1. In a device of the character described, the combination with a shaft clutch actuating member, and a constant mesh gear set including a series of gear clutches operating in connection with certain of the gears of said set, of a pair of shafts shiftable lengthwise by the said shaft clutch actuating member, means carried by one of said shafts to shift the several gear clutches in one direction, means carried by the other shaft to engage the clutch actuating member to shift the gear clutches in the opposite direction, and means for manually rotating said shafts to bring selected clutch actuating means into operative position.

1,346,533. METHOD OF AND MEANS FOR PRESERVING TOBACCO. CALEB C. DULA, New York, N. Y., assignor to Liggett & Myers Tobacco Company, New York, N. Y., a Corporation of New Jersey. Filed June 9, 1920. Serial No. 387,636. 2 Claims. (Cl. 131—11.)



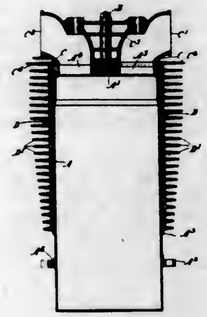
1. As a new product of merchandise, a hermetically-sealed package of manufactured tobacco comprising an original pocket package bearing on its outer surface suitable indicia designating the particular tobacco brand inclosed within the package, a readily removable wrapper of porous paper folded about and completely covering said package and having predetermined portions adhesively connected to maintain the wrapper in position about the package, and a coating of paraffin applied to the outer surface and closing the spaces between the folds of said removable wrapper to hermetically seal the same throughout, the construction and arrangement of the elements being such that the said brand designation will be visible through the paraffin coating and outer wrapper when the latter is in position upon the package in order that the brand may be readily distinguished, and which outer wrapper may be easily torn away leaving the original package with its brand indicia intact.

1,346,534. INTERNAL-COMBUSTION ENGINE. ALFRED HUBERT ROY FEDDEN, Bristol, England. Filed Nov. 21, 1918. Serial No. 263,590. 5 Claims. (Cl. 123—171.)



5. In an internal combustion engine the combination of a steel cylinder having the highest portion of its head formed integral with it as a flat plate devoid of upstanding projections, an aluminium cap stiffened against buckling by hoods for inlet and exhaust passages and a central pillar or pillars and parallel radiation fins connecting them all formed integral with the cap, said cap further having a flat bottom plate devoid of upstanding projections but with a radiation fin extending around its periphery, each of said flat plates being formed with ports and with annular recesses around two ports on the opposed faces of the plates, copper rings adapted to enter said annular recesses, and means securing the cap to the cylinder head both at the center and around the edge with the said flat plates in intimate contact with one another substantially as set forth.

1,346,535. CYLINDER FOR INTERNAL-COMBUSTION ENGINES. ALFRED HUBERT ROY FEDDEN and LEONARD FREDERICK GEORGE BUTLER, Bristol, England, assignors of one-third to The Cosmos Engineering Company Limited, Bristol, England. Filed July 3, 1919. Serial No. 308,639. 4 Claims. (Cl. 123—171.)



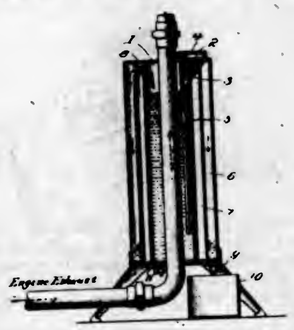
4. For an internal combustion engine, a cylinder comprising in combination, a cylindrical steel barrel having a smooth outer wall and a flat end, an aluminum cap stiffened against buckling by hoods and pillars all tied together by parallel radiation fins secured on the said flat end, and a sleeve formed of aluminum and shrunk onto said barrel, and provided with radiating fins machined on it after it is secured on the barrel.

1,346,536. TOOTHBRUSH. JOHN J. FITZ-GIBBON, Holyoke, Mass. Filed Apr. 12, 1919. Serial No. 289,562. 2 Claims. (Cl. 15—39.)



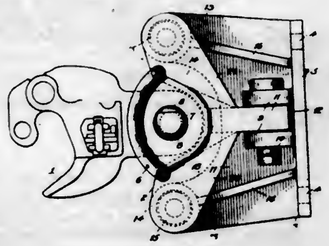
1. A tooth brush having a head formed with a longitudinal opening extending transversely thereof and provided on each side of said opening with a longitudinal row of brush tufts, each row being inclined toward the longitudinal median line of the brush head, the ends of the brush tufts being disposed adjacent to each other and of V-shaped formation.

1,346,537. SYSTEM OF WATER DISTILLATION. ALAN E. FLOWERS, Columbus, Ohio. Filed Apr. 11, 1919. Serial No. 289,456. 4 Claims. (Cl. 203—5.)



2. A still comprising in combination, a central boiler, heating means therefor, a condensing chamber surrounding said boiler and in open communication with the steam space thereof, and an air space between said boiler and the condensing chamber.

1,346,538. RAILWAY DRAFT APPLIANCE. ENOCH GEORGE, Jr., Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 16, 1920. Serial No. 374,342. 11 Claims. (Cl. 213—42.)



1. In a railway draft appliance, the combination with a bracket member which is adapted to be rigidly secured to a car, of a coupler supporting member, a horizontally extending pivot pin for pivotally connecting said members so as to permit said coupler supporting member to swing vertically with respect to said bracket, yielding means interposed between said coupler supporting member and said bracket for supporting said coupler supporting member, a car coupler extending forwardly from said coupler supporting member, and a vertically extending pivot pin connecting said coupler and said coupler supporting member in advance of the pivotal connection of said coupler supporting member and bracket.

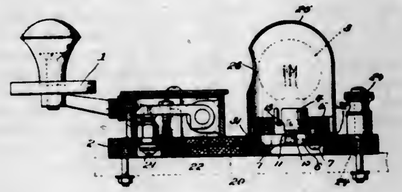
1,346,539. FAIR-LEAD. GEORGE FRANCIS GRAY, Pittsburgh, Pa. Filed Apr. 22, 1919. Serial No. 291,985. 1 Claim. (Cl. 173—324.)

A fairlead comprising in combination, a tubular, insulating member having an enlarged upper portion, a current-conducting tube fixedly mounted in said insulated member and having a threaded portion projecting above the enlarged portion of said insulating member, a second insulating member removably mounted on the lower portion of said first mentioned insulating member, and adapted to coöperate with the enlarged portion of the latter to clamp the fair-lead to its support, a nut mounted on the threaded portion of said current-conducting tube and partially embedded in said first mentioned insulating member, means for maintaining the exposed end of an electrical conductor in contact with said nut, a clamping ring provided with a groove adapted to coincide with a groove in the upper end of said first mentioned, insulating member, said grooves forming an opening through which



said electrical conductor passes, and a cap removably mounted on the threaded portion of said current-conducting tube above said clamping ring for forcing the latter in clamping position about the insulation of said electrical conductor.

1,346,540. SIGNALING APPARATUS. GEORGE FRANCIS GRAY, Pittsburgh, Pa. Filed May 20, 1919. Serial No. 298,510. 1 Claim. (Cl. 178—2.)

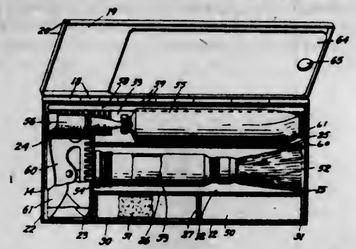


The combination of a telegraph-sending key, a base on which said key is mounted, said base being provided with a circular raised portion, an electric lamp mounted in said raised portion, a shield for said lamp having a restricted opening therein for observing said lamp, pins projecting horizontally from said raised portion, corresponding bayonet slots in the lower edge of said shield adapted to engage with said pins, springs in said base adapted to exert an upward pressure on the lower edge of said shield when the same is in place, electrical conductors connecting said lamp in parallel with the contacts of said sending-key, and binding-posts on said base to which said conductors are connected from said lamp.

1,346,541. TOILET-ACCESSORY CONTAINER. MARCELLE J. HARDING, New York, N. Y. Filed July 5, 1919. Serial No. 308,695. 1 Claim. (Cl. 206—15.6.)

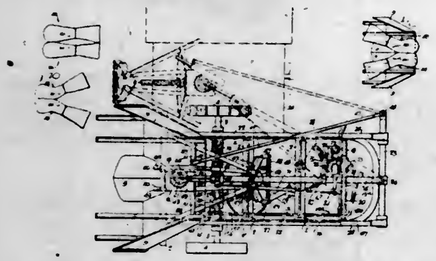
As a new article of manufacture, a box body having a plurality of partitions dividing it into compartments, the said partitions extending upwardly to the same level, and a cover adapted to engage the upper edges of said partitions when it is down, sundry of said compartments communicating with each other when the cover is down, through openings in the respective partitions, and the wall of the body having openings leading to two of said communicating compartments, whereby a circulation of out-

side air may be effected through said communicating compartments, the wall of the body being further provided



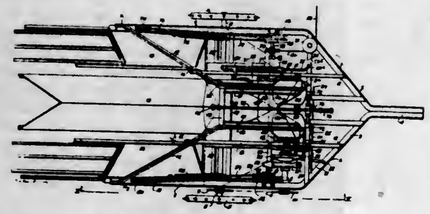
with an opening leading to one of the other compartments, and being imperforate where it bounds still another compartment.

1,346,542. GRAIN-SHOCKER. GEORGE INNES and JAMES H. PRALL, Philadelphia, Pa. Filed Apr. 4, 1917. Serial No. 159,614. Renewed Dec. 4, 1919. Serial No. 342,475. 34 Claims. (Cl. 56—417.)



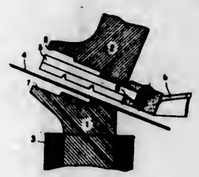
1. In a shocking machine, the combination of a frame, a shock-forming crib or basket flexibly connected to said frame, a shaft, a cam segment carried by the shaft, a member connected to the basket and passing over said shaft; said member being connected at its opposite end to the cam segment, and tension means carried by the shaft and operatively connected between said cam segment and the frame whereby said basket may be returned to its elevated position when relieved of the weight of the shock.

1,346,543. GRAIN-SHOCKER. GEORGE INNES and JAMES H. PRALL, Philadelphia, Pa. Filed Sept. 5, 1917. Serial No. 189,775. 15 Claims. (Cl. 56—410.)



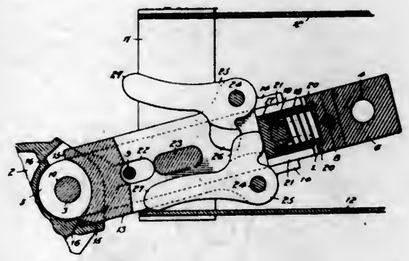
1. In a grain shocker, the combination of a frame, traction wheels therefor, a basket disposed at the rear of said frame, a tiltable receiving member at the side of said frame, means for delivering sheaves thereto, inclined supplemental means for receiving sheaves from said tiltable member, means for actuating the latter twice in succession to deliver one sheaf after another to said supplemental receiving means which holds two sheaves, and downwardly and rearwardly operating sweep plates for moving the sheaves in groups of two rearwardly from said supplemental means to the basket; said supplemental receiving means being yieldingly supported for the passage of said sweep plates.

1,346,544. MAGNETIC ORE-SEPARATOR. AUGUST F. JOBKE, Pittsburgh, Pa. Filed Apr. 24, 1918. Serial No. 230,604. 13 Claims. (Cl. 83—71.)



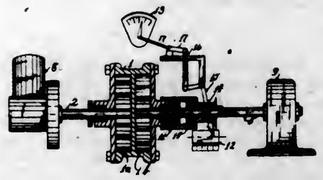
1. In a magnetic separator a separating member between upper and lower magnet-poles, having its largest dimension and a lower collecting-edge in the direction of the flow of ore and its smallest in the direction of its movement at right angle thereto and to the flow of flux.

1,346,545. DRAFT APPLIANCE FOR RAILWAY-VEHICLES. WILLIAM KELSO and JOSEPH KELSO, Pittsburgh, Pa., assignors to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 30, 1920. Serial No. 369,933. 10 Claims. (Cl. 213—42.)



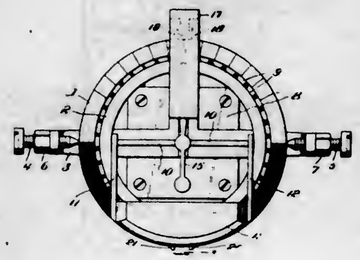
1. In a railway draft appliance, the combination with a coupler having a head and stem and which is adapted to be connected to a railway vehicle so as to swing laterally with respect thereto, of means mounted on said stem for normally maintaining the latter in centralized position, said means involving a spring mounted upon and extending in the direction of length of said stem, and a plurality of independently movable levers pivotally mounted upon opposite sides of the longitudinal axis of said stem and each adapted to energize said spring.

1,346,546. SHOCK-ABSORBER AND DYNAMOMETER FOR POWER TRANSMISSIONS. AUGUST J. KLONECK, New York, N. Y. Filed Dec. 29, 1915. Serial No. 69,227. 23 Claims. (Cl. 265—25.)



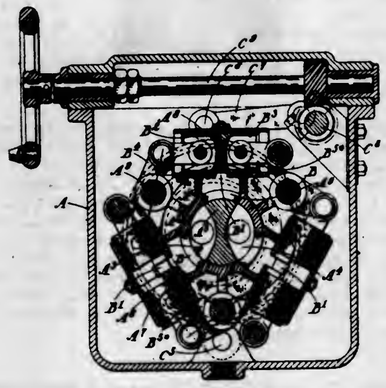
1. A device of the character described comprising a casing having circular chambers at each side thereof, a revoluble part in each chamber adapted to be operated by shafts, leading into each chamber and springs arranged operatively between said casing and said revoluble parts within said chambers.

1,346,547. AUTOMATIC ANGLE-INDICATOR. JAMES REGINALD LACKLAND, Creston, Iowa. Filed May 6, 1919. Serial No. 295,141. 3 Claims. (Cl. 33—215.)



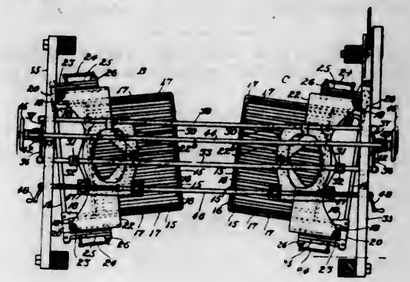
1. An automatic angle indicator comprising in combination, a ball-bearing, means for supporting said bearing at its horizontal axis for pivotal movement about one of the diameters, a weight eccentrically located on the inner ring of said ball-bearing, whereby to maintain the bearing in a vertical position, pointer means rigidly attached to the inner ring of said ball-bearing, the outer ring of the bearing having graduations with which said pointer means are adapted to coöperate, a graduated sector rigidly attached to said supporting means and lying in a plane perpendicular to that of said ball-bearing, and pointer means on the outer ring of said bearing adapted to coöperate with the graduations on said sector.

1,346,548. HYDRAULIC PUMP. FREDERICK LANPLOUGH, Feltham, England, assignor to Hydro-Dynamics Limited, London, England. Filed Apr. 28, 1919. Serial No. 293,371. 12 Claims. (Cl. 103—44.)



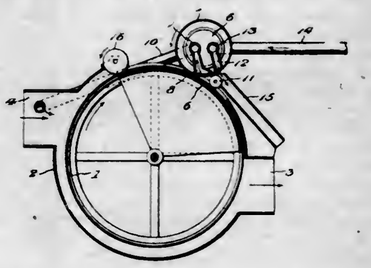
1. In a rotary hydraulic pump the combination of a driving shaft, a plurality of engine-cylinders mounted at different angular positions thereon with their longitudinal axes in a plane transverse to the axis of the shaft, a pair of opposed pistons in each cylinder, two circular guides surrounding the shaft and adapted to be moved into oppositely eccentric positions relatively thereto and means operatively connecting one piston in each cylinder to one guide and the other piston in each cylinder to the other guide, so that the pistons are reciprocated in opposite phase by the eccentric guides.

1,346,549. DEVICE FOR OPENING AND GUIDING WEBS OF CLOTH, &c. WILLARD I. LEWIS, Walpole, Mass. Filed Apr. 12, 1916. Serial No. 90,759. 18 Claims. (Cl. 26—8.)



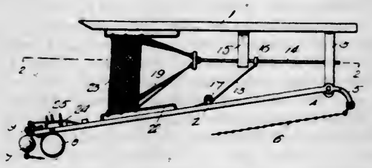
1. Apparatus for opening and spreading a traveling web, comprising, in combination, web-contracting means by which the web is positively held narrowed widthwise within substantially less than its normal breadth, a roll or set of rolls to which a web-margin extends obliquely outward from said web-contracting means, said roll or set of rolls revolving upon a forwardly-inclined axis or axes and operating to open and spread the web from its abnormally narrow state to its full width and means for producing engagement between the roll or rolls and the web.

1,346,550. SCREEN PICKUP-ROLLER. GEORGE W. MARTIN, Fort Worth, Tex. Filed Nov. 17, 1919. Serial No. 338,557. 2 Claims. (Cl. 13—17.)



1. The combination with a condensing apparatus comprising a housing having inlet and outlet trunks, a screen cylinder rotatably mounted in said housing, and a cut-off for the cylinder, of a pickup roller having its circular wall made of screening and engaging the condensing cylinder, a suction nozzle within said roller having its mouth adjacent the inner wall thereof, means for connecting said nozzle with the inlet trunk of the housing, a blast nozzle within the roller and means for supplying a blast of air through said nozzle.

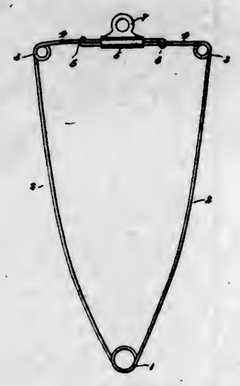
1,346,551. TORPEDO-TRAP. VERE HAMMOND MASTERS and MILO GLENN SHOOP, Sioux Falls, S. D. Filed Mar. 20, 1918. Serial No. 223,541. 4 Claims. (Cl. 114—240.)



4. A device of the character specified, comprising upper and lower sections hinged together at one end, a buoy for

the free end of the lower section, a counterweight connected with the said end for normally submerging the same, a net suspended between the sections, and releasable means for the counterweight controlled by the movement of the net under the impact of a torpedo.

1,346,552. NECKTIE-STRETCHER. FRED F. METCALF, Chicago, Ill. Filed July 19, 1919. Serial No. 311,993. 2 Claims. (Cl. 223—19.)



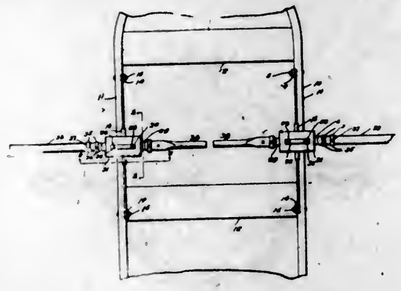
1. A stretcher for the purpose described, the same being formed of a single length of spring-wire bent at an intermediate point to form a coiled eye and a reduced entering-end, upwardly disposed beyond said eye to form opposite diverging companion terminals, the latter at corresponding points being bent to form corresponding coils and beyond them inwardly laterally disposed overlapping portions terminating in oppositely disposed eyes, the eye of one of said portions receiving the laterally disposed portion of the companion terminal, whereby a freely slidable connection between said overlapping portions is formed, and a sleeve loosely receiving said overlapping portions of the terminals and in which the latter are freely slidable, said sleeve being provided with a suspension-eye and being positioned between the eyes of the overlapping portions of the terminals and forming abutments therefor.

1,346,553. ELECTRIC SWITCH. (FLUSH, SURFACE, PUSH-BUTTON.) WILLIAM J. NEWTON, Bridgeport, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 18, 1918. Serial No. 262,958. 15 Claims. (Cl. 200—67.)



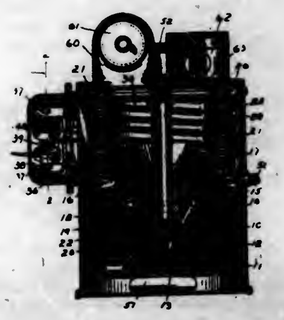
1. In a switch, the combination of a swinging contact member, a swinging actuating member, an operating member, a toggle arm one end of which is pivoted to the operating member, the other end having operative connection with the actuating member, the operating member and the toggle arm comprising a toggle joint, coöperative engaging parts on the contact and actuating members spaced in inoperative positions, and means acting to cause the actuating member to be accelerated to strike the contact member when the toggle joint is swung past its dead center in either direction, the contact member remaining in either the open circuit or closed circuit position until it receives the blow of the actuating member.

1,346,554. BOAT-OAR. DAVID D. PAICE, Norman, Okla. Filed Oct. 1, 1919. Serial No. 327,617. 7 Claims. (Cl. 9—24.)



1. An oar of the class described including a support, a carriage adjustably carried by the support, a plate horizontally pivoted to the carriage, a pair of toothed segments vertically pivoted to the plate, and handles and oars secured to the segments.

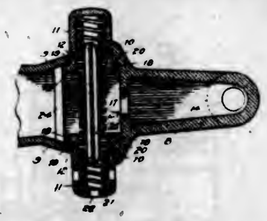
1,346,555. ELECTRICALLY-ACTUATED PUMP. DONALD H. REEVES, Dayton, Ohio. Filed Nov. 29, 1918. Serial No. 264,650. 3 Claims. (Cl. 103—67.)



1. In combination: a pump comprising an expansible cylinder, one end thereof being secured to a stationary head, the other end being free to move longitudinally and closed by a head; an electro-magnet, an armature connected to the free cylinder head, said armature being attracted and moved by the magnet when the latter is energized, thereby expanding the cylinder, a spring located within the head and constantly tending to contract the cylinder, a switch, and connecting means whereby when the cylinder has been expanded to a given point the switch is opened, and when the cylinder is contracted to a given point the switch is closed.

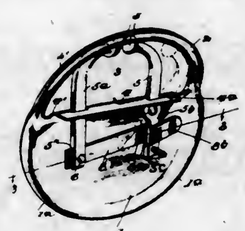
1,346,556. DRAFT-RIGGING. WILLIAM J. REGAN, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 28, 1919. Serial No. 320,452. 8 Claims. (Cl. 213—42.)

1. In mechanism of the character indicated, the combination with a coupler having a hollow integral shank provided upon opposite sides with apertures affording communication with the interior of said shank, of means for centralizing said shank with respect to the car, said means involving spring-boxes mounted on said shank and respectively projecting outwardly through said apertures, the hollow portion of said shank in advance of said spring-boxes constituting a passage which is open at the forward end of said shank and communicates with said apertures, and said passage being adapted to receive said



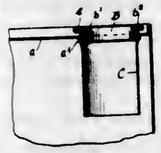
spring-boxes at its forward end and to permit said boxes to be moved rearwardly therein and respectively entered in said apertures.

1,346,557. CALF AND COLT WEANER. JOHN REICHERT, Racine, Wis. Filed Oct. 2, 1919. Serial No. 327,855. 10 Claims. (Cl. 119—132.)



10. A weaner comprising a guard plate, suspending fingers rising therefrom and having shanks extending down along the surface of said plate and secured thereto, one of said fingers being swingable on an axis located between its opposite ends, one of said ends forming a locking bolt having a lateral shoulder, and a plate spring pressing against said plate and secured thereto with its free end extending transversely over said locking bolt and offset above said lateral shoulder, said lateral shoulder arranged to bear upwardly against the lower edge of said offset to lock the swingable finger in operative position, said bolt arranged to swing toward the secured end of the spring and between the spring and plate when released and swung toward opened position.

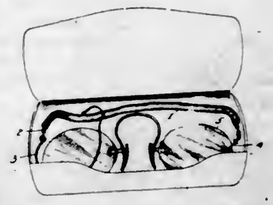
1,346,558. MEASURING ATTACHMENT FOR CANS. PAUL M. ROSENWASSER, Cleveland, Ohio, assignor to The Maurice Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 25, 1919. Serial No. 313,178. 2 Claims. (Cl. 220—24.)



1. The combination of a can having an orifice, a cap having a depressed portion adapted to enter the orifice, and having an outward flange at its upper edge, and a tubular extension having an open end remote from said cap and having a flange at its upper edge rigidly secured to said cap, said cap and extension comprising a measuring device.

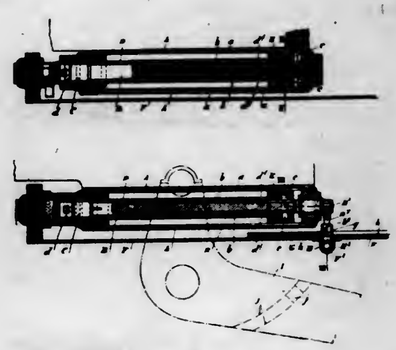
2. The combination of a can having an opening, a cap having a depressed central portion, a vertical wall and an outward flange, a tubular extension surrounding said vertical wall, and having an outward flange at its upper end, the flange of the cap being curled over and beneath the flange of the extension, the extension below the cap being adapted to loosely pass through the flange of the can and the portion of the extension surrounding the wall of the cap being adapted to make a frictional snug engagement with the flange of the can.

1,346,559. EYEGLASS-CHAIN. ARCHIE SCOTT, Ocala, Fla. Filed Mar. 31, 1920. Serial No. 370,318. 2 Claims. (Cl. 88—41.)



1. A guard for eye-glass chains comprising a continuous coil of metallic wire to form a flexible tubular casing having an internal diameter to loosely receive the chain longitudinally therethrough and adapted to maintain the same in distended position.

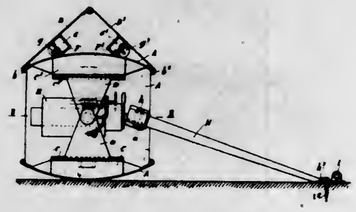
1,346,560. BRAKE FOR GUNS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,496. 2 Claims. (Cl. 89—43.)



1. In brake apparatus for guns, the combination of a brake cylinder having in its wall tapering throttling grooves of comparatively short length, a valved counter-rod fast at one end of the brake cylinder and having tapering throttle grooves of greater length than the grooves in the brake cylinder wall, a piston cylinder entering the brake cylinder and open to the same and receiving the counter-rod, said piston cylinder and counter-rod being angularly movable in respect to each other, and a piston head on the piston cylinder to throttle the flow of fluid through the grooves of both the brake cylinder wall and the counter-rod, the latter extending through the piston head, the piston head having passages continuously open at one end to the brake cylinder space on one side of the piston head and the other end of said passages positioned to register more or less with the grooves of the counter-rod or closed altogether by relatively angular displacement of the counter-rod and the piston cylin-

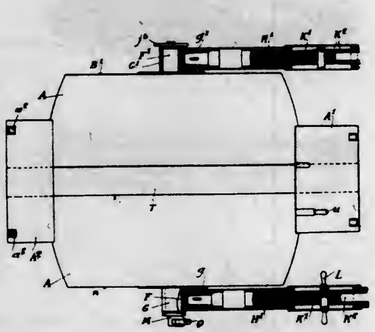
der, the grooves of the counter-rod and the passages through the piston head constituting a conduit for the flow of fluid from one side of the piston head to the other side separate from the grooves in the brake cylinder wall, the controlled flow of the fluid through said conduit operating to regulate the recoil of the gun.

1,346,561. GUN FOR ACCOMPANYING ATTACKING TROOPS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Oct. 24, 1919. Serial No. 333,103. 8 Claims. (Cl. 89—40.)



1. In a gun mount, the combination of a barrel-shaped gun casing adapted to roll over the ground, trunnion bearings supported in axial alinement of said casing, trails adapted to engage said bearings to serve as shafts for traveling and to serve as anchoring trails for firing.

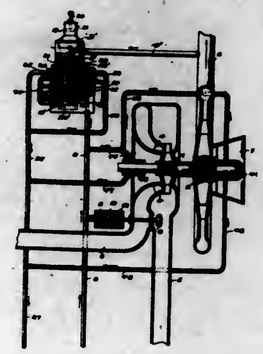
1,346,562. GUN FOR ACCOMPANYING ATTACKING TROOPS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Feb. 28, 1920 Serial No. 362,114. 15 Claims. (Cl. 89—40.)



1. In a gun mount, the combination of a barrel-shaped casing adapted to roll on the ground for transportation and having in its periphery diametrically opposite openings, a gun mounted in the casing in line with said openings, and flaps for closing said openings to complete the periphery of the casing for rolling on the ground during transportation.

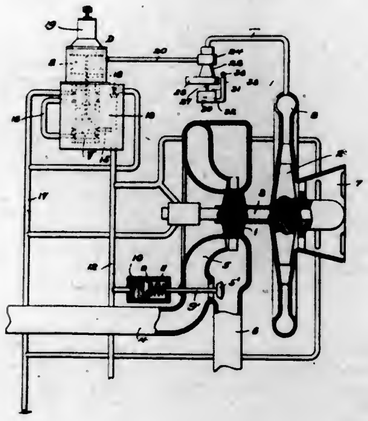
1,346,563. AUTOMATIC CONTROL FOR TURBO-COMPRESSORS. EARL H. SHERBONDY, Cleveland, Ohio. Filed Mar. 26, 1918. Serial No. 224,894. 22 Claims. (Cl. 103—91.)

3. In combination with an air compressor, means responsive to the atmospheric pressure and to the compressor pressure to control the compressor pressure, said means becoming operative when the compressor pressure exceeds the atmospheric pressure by a certain amount,



and means responsive to a standard pressure and to the compressor pressure to additionally control the compressor pressure.

1,346,564. SUPERCHARGING DEVICE FOR TURBO-COMPRESSORS. EARL H. SHERBONDY, Cleveland, Ohio. Filed Apr. 8, 1918. Serial No. 227,333. 10 Claims. (Cl. 103—91.)

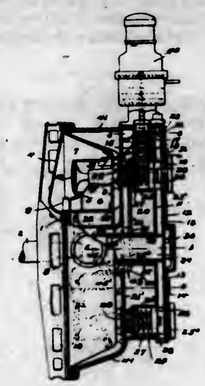


1. In combination, an air compressor, means responsive to the delivery pressure of said compressor to control the delivery pressure of said compressor and means responsive to the atmospheric pressure to influence said first-mentioned means to cause said compressor to deliver additional pressure.

1,346,565. TURBINE CONTROL-HOUSING. EARL H. SHERBONDY, Cleveland, Ohio. Filed May 14, 1918. Serial No. 234,557. 8 Claims. (Cl. 60—41.)

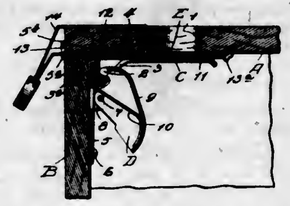
1. In a turbine control housing, means defining fluid pressure and fluid waste passages, mounting means for a turbine controlling element arranged to be actuated by variations of fluid pressure in said fluid pressure passage, means to vary the fluid pressure, a turbine controlling element mounted in said mounting means and mounting means for a turbine bearing carried by said housing, in combination with means, forming a part of said housing,

to carry a cooling medium on the side of the housing that faces toward the turbine, in order to prevent radia-



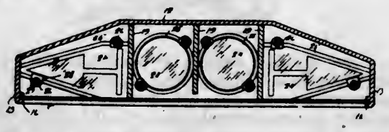
tion of heat from the turbine casing to the control housing.

1,346,566. BOX-FASTENER. ERNEST W. STAMM, St. Louis, Mo. Filed June 16, 1919. Serial No. 304,445. 6 Claims. (Cl. 292—128.)



1. A box or shipping case provided with a hinged lid that has a hole in same through which the user inserts his finger to release the lid, and a pivotally mounted catch for said lid arranged on the inner side of the front wall of the box and provided with a portion arranged below its pivot, on which the operator presses downwardly so as to render said catch inoperative.

1,346,567. AUTOMOBILE-SIGNAL. PAUL A. STOVER, Cleveland, Ohio. Filed Oct. 27, 1919. Serial No. 333,522. 9 Claims. (Cl. 40—132.)



1. In an automobile visual signaling device, a housing divided into a plurality of horizontal lamp compartments, signal lamps within said compartments adapted to be selectively illuminated, openings within the front and rear walls of each compartment, lenses within said openings, those in one compartment being of a different color from those in another, whereby signal lights may be visible from both front and rear, for indicating changes in speed.

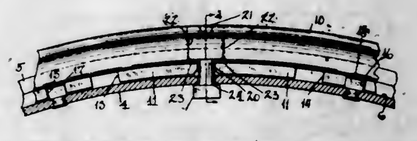
1,346,568. SKATE-SCABBARD ATTACHMENT. WILLIAM S. SWIFT, New York, N. Y. Filed Oct. 27, 1919. Serial No. 333,430. 1 Claim. (Cl. 46—53.)

In a skate scabbard a combination of two flexible rods each fastened respectively on the front and back of the scabbard; two loop-straps; a metal piece to which the back of each loop is firmly fastened, and which slides freely along the back rod; a stud; a metal piece which slides



freely along the front rod, and to which the stud is fastened; a clasp on the front of the strap which fits into the stud, substantially as set forth in the foregoing specification.

1,346,569. VEHICLE-WHEEL RIM. JOSEPH C. THEBERATH, Cleveland, Ohio, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 2, 1916. Serial No. 118,229. 6 Claims. (Cl. 152—21.)



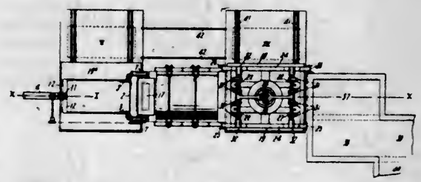
1. The combination with a wheel rim; of a split side-flange removably mounted on said rim; and means for locking the ends of said flange to said rim, comprising a member formed to interlock with the juxtaposed ends of said flange and adapted, upon rotation, to interlock with said rim.

1,346,570. AIRPLANE. HENRY P. VAN KEUREN, Lansing, Mich. Filed May 24, 1918. Serial No. 236,439. 6 Claims. (Cl. 244—14.)



1. In an airplane, a hinged main supporting plane operatively controlled by the pilot, a fuselage inclosing an engine at the front portion thereof, a tractor airscrew, inclined side planes intersecting said hinged main supporting plane.

1,346,571. METHOD AND APPARATUS FOR THE MANUFACTURE OF PRESSED-SHEET-GLASS PRODUCTS. FRANK L. O. WADSWORTH, Pittsburgh, Pa. Filed Nov. 21, 1913. Serial No. 802,311. 31 Claims. (Cl. 49—3.)

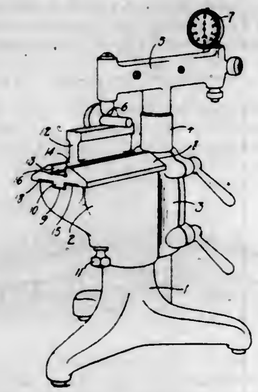


1. The method of manufacturing pressed glass sheets or plates which comprises the preliminary spreading of the molten material to sheet form, the subsequent reheating of one side of the spread sheet to a substantially uniform temperature over the entire area to be subjected to pressing operations and the final pressing of the reheated surface.

14. Apparatus for the manufacture of pressed glass plates or sheets which comprises a glass receiving table,

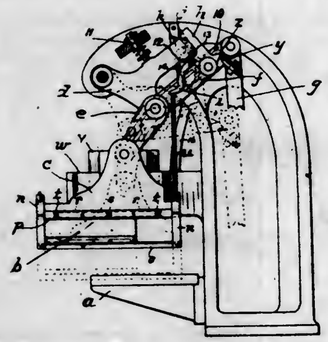
a spreading mechanism, a furnace, a press mechanism and means for moving the table relatively to the other element substantially as described and for the purposes specified.

1,346,572. GAGE. FRANK L. WALTER, Dayton, Ohio. Filed Aug. 15, 1918. Serial No. 249,926. 17 Claims. (Cl. 33—147.)



2. In a gage, a working engaging member, a supporting structure having a supporting surface arranged beneath and in a plane extending transversely to said working engaging member, a removable base formed separately from and rigidly secured to said supporting surface, a work supporting device mounted on said base for adjustment relatively thereto and transversely to said working engaging member, and means for securing said work supporting device to said base in adjusted positions.

1,346,573. BOX-STAYING MACHINE. CHARLES FREDERICK WALZ and FRANCIS DEVELIN MORRIS, Philadelphia, Pa., assignors, by mesne assignments, to Edwin Wolf, Benjamin Wolf, Clarence Wolf, Louis Wolf, and Albert Wolf, Philadelphia, Pa., Copartners trading as National Metal Edge Box Company, Philadelphia, Pa. Filed July 28, 1919. Serial No. 313,761. 10 Claims. (Cl. 74—46.)



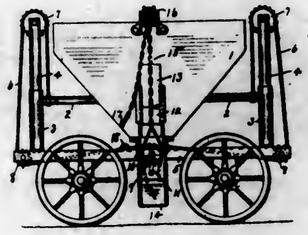
1. In safety stops for machinery, the combination with a reciprocable member, the positive operation of which it is desired to automatically arrest, a toggle joint connection between a fixed point and said member, and reciprocatory driving mechanism, of a displaceable device acting when in operative position to form an actuating connection between the driving mechanism and the toggle joint, a guard normally moving with said member but retractable relatively thereto upon meeting an obstruction, and means, actuable by said guard when so retracted, to move the displaceable device into inoperative position.

1,346,574. FUSE-PLUG. EDWIN C. WEISGERBER, U. S. Army. Filed Feb. 19, 1919. Serial No. 277,980. 5 Claims. (Cl. 200—130.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A refillable fuse plug, consisting of a hollow insulating body formed with an opening in one end and an opening in one wall in alined relation, a conducting shell carried by said insulating body and having a passage therein, a clamping member mounted in the conducting shell and body, and a fuse-strip or conductor having its terminals clamped in operative position by the conducting shell, and clamping member and by the clamping member mounted in the end of said body.

1,346,575. SIDE-DUMPING WAGON. HENRY C. WEITZEL, Baltimore, Md. Filed Nov. 13, 1919. Serial No. 337,795. 1 Claim. (Cl. 298—7.)

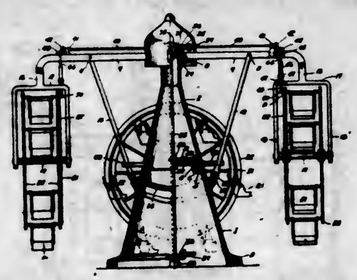


In a side dumping wagon the combination of a frame, a standard mounted at each end of said frame, a body, arms projecting from each end of the said body and having a sleeve at the outer end, fitted over the said standards, a wheel at the upper end of each standard, a crank-shaft mounted in said frame and chains connecting each of said arms with the said crank-shaft whereby when the crank is turned the body will be raised and lowered on said standard.

1,346,576. AMUSEMENT DEVICE. JESSE C. WELCH, Tacoma, Wash. Filed July 28, 1919. Serial No. 313,902. 4 Claims. (Cl. 46—27.)

1. An amusement device of the character described comprising a central standard, arms pivotally connected at their inner ends to the standard and extending radially therefrom, hangers pivotally suspended from the outer ends of said arms, and adapted to swing radially toward and from the standard, Ferris wheels revolubly mounted

in said hangers, an undulatory track encircling the standard and members having pivotal connection at their outer



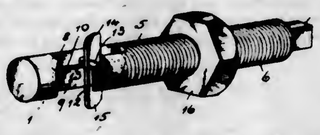
ends with said arms and movable at their inner ends along said track to actuate the outer ends of the arms vertically as the standard revolves.

1,346,577. RADIATOR. JOHN E. WHITBECK, Rochester, N. Y. Filed Mar. 3, 1919. Serial No. 280,359. 3 Claims. (Cl. 257—125.)



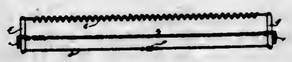
1. A radiator for a vehicle, comprising a core, upper and lower headers, and side walls, said headers and said side walls being shaped so as to direct air passing thereover toward and into the air stream leaving the radiator core, to form converging air streams to aid in drawing air through the radiator core.

1,346,578. BOLT-FASTENING. WALTER E. WINDSOR, Baltimore, Md. Filed Feb. 28, 1920. Serial No. 362,082. 3 Claims. (Cl. 85—3.)



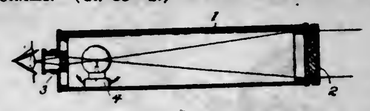
1. The combination with a bolt having a threaded circumferential portion at one end and provided with a slot in the other end that extends diametrically therethrough said bolt having a supporting ledge in said slot, of a pawl in said slot said pawl having means of less width than the slot to seat in the ledge therein and pivotally sustain it and a nut on the bolt.

1,346,579. MATTRESS-GUARD. MAX WINSTEIN, Montreal, Quebec, Canada. Filed Oct. 25, 1919. Serial No. 333,253. 4 Claims. (Cl. 5—39.)



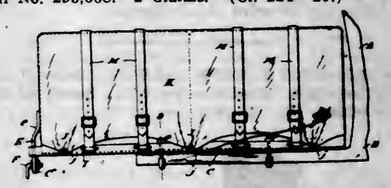
1. In mattress guards, a pair of links adjustably fulcrumed in opposing members of a frame and joined at one end by a spring and at the other by a connecting rod.

1,346,580. FLASH-TELESCOPE. ROBERT W. WOOD, Baltimore, Md. Filed Feb. 25, 1919. Serial No. 279,088. 3 Claims. (Cl. 88—1.)



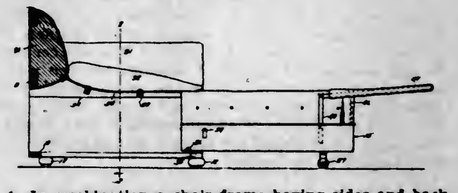
2. Signaling means comprising in combination, a telescope, the objective and eye piece of which have a common focus, and a flash lamp located at the said common focus.

1,346,581. LOAD-CARRIER FOR AUTOMOBILES. WILLIS K. YOST, Little Rock, Ark. Filed May 8, 1919. Serial No. 295,668. 2 Claims. (Cl. 224—29.)



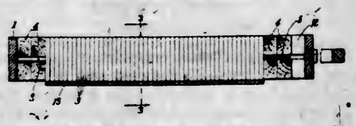
1. The device as herein characterised and comprising oppositely facing L side beams spaced apart, laterally adjustable, and detachably connected together, hook bolts adjustably mounted in said beams and adapted for engagement with the frame of an automobile, rigid brackets extending downwardly from said beams at the rear ends thereof, and stops pivotally mounted at their lower ends on said brackets below the plane of said side beams, said stops adapted to be swung upwardly and against the side walls of the L beams, and means for locking said stops in such position.

1,346,582. EXTENSIBLE CHAIR BED. ANTON ZWOLINSKI, Cleveland, Ohio. Filed Sept. 22, 1919. Serial No. 325,565. 11 Claims. (Cl. 5—46.)



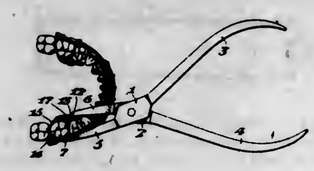
1. In combination a chair frame having sides and back, a seat frame slidably mounted within said chair frame and adapted to be extended forwardly of said chair frame, said seat frame having a spring supported pad resting thereon, a foldable member adapted to form a forward extension of the surface of said pad, and a downwardly collapsible member adapted to form a rear extension of the surface of said pad.

1,346,583. TYPOGRAPHIC PLATE. LEWIS M. ADAMS, Ridgefield Park, N. J. Filed Sept. 16, 1919. Serial No. 324,185. 10 Claims. (Cl. 101—401.2.)



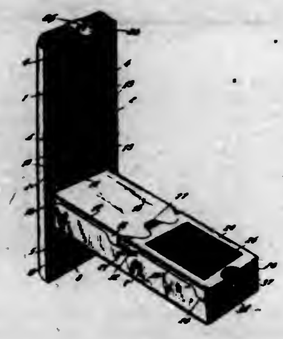
1. The process of forming an integral type unit which consists in assembling separate type elements and uniting them by cohesive junctures, the back surface of said integral type unit being completely integrated.

1,346,584. ORTHODONTIC IMPLEMENT. EDWARD H. ANGLE, Pasadena, Calif. Filed Apr. 15, 1920. Serial 374,100. 5 Claims. (Cl. 32—10.)



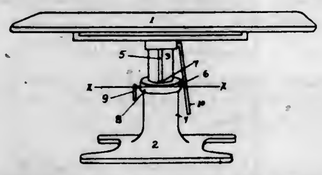
1. An implement of the class described, comprising pivoted members movable toward and from each other, and arranged to embrace a tooth-band, one member being arranged to engage the band and the other being arranged to engage the threaded shank thereof.

1,346,585. SHOE-SHINING CABINET. LEROY H. ARTER, Warren, Ohio. Filed Mar. 18, 1916. Serial No. 85,016. 7 Claims. (Cl. 15—58.)



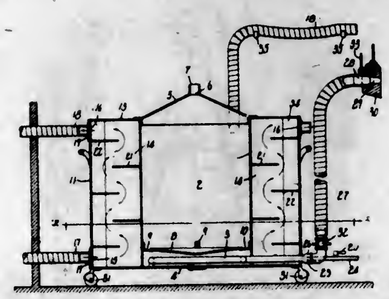
1. A device of the character set forth comprising a supporting plate having its lateral edges bent to produce a pair of opposed guides, a member having portions slidable within said guides, a foot support hingedly connected to said member and capable of swinging between a plane substantially parallel to said guides and a plane at substantially right angles thereto, and means which is effective when the support is at substantially right angles to the guides for retaining the support at various elevations with respect to the guides.

1,346,586. TABLE-SUPPORTING MECHANISM. GEORGE A. BARBEA, Chicago, Ill., assignor to John V. McManis, Kirksville, Mo. Filed Sept. 28, 1917. Serial No. 193,734. 4 Claims. (Cl. 45—50.)



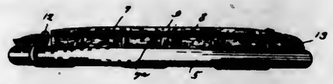
1. A supporting pedestal comprising a cylinder, a fluid actuated plunger movable endwise and rotatably relative to said cylinder, said plunger being provided with a key-way extending through a portion of the length of said plunger, a collar rotatably adjustable relative to said cylinder and having a key to engage the key-way of said plunger, and means to lock said collar rigidly to said cylinder.

1,346,587. PORTABLE GAS-HEATER. PETER BERNSTEIN, Boston, Mass. Filed June 5, 1918. Serial No. 238,270. 1 Claim. (Cl. 126—116.)



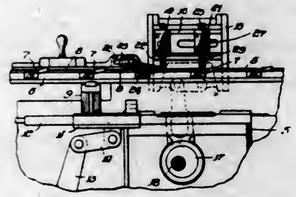
A portable gas heater having, in combination, a combustion chamber provided with a closed outer wall, a plurality of independent heating chambers surrounding said combustion chamber, a gas burner located within said combustion chamber, a plate located above said gas burner and adapted to deflect the heat therefrom against the closed wall of said combustion chamber, a plurality of horizontally disposed baffle plates located within each of said heating chambers, inlet and discharge openings for each of said heating chambers, and flexible air tubes connected respectively with said inlet and discharge openings and adapted to convey heated air from each of the heating chambers to a room to be heated and to carry air from said room back to the heating chamber.

1,346,588. PRACTICE-DRUM. HARRY A. BOWER, Boston, Mass. Filed Feb. 27, 1919. Serial No. 279,575. 6 Claims. (Cl. 84—10.)



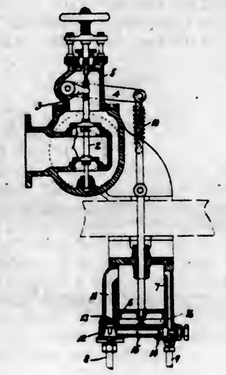
4. A device of the class described, comprising a base, a sounding-board spaced from said base, cushioning means between said base and sounding-board, said cushioning means entirely supporting the sounding-board, and means for securing the parts in assembled relation to one another.

1,346,589. BLANK-POSITIONING MECHANISM. WILLIAM CAMERON, Chicago, Ill., assignor to Torris Wold & Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 5, 1918. Serial No. 256,934. 8 Claims. (Cl. 164—21.)



1. In a blank positioning mechanism, the combination of a back stop means for advancing a blank beyond said back stop, means in the path of said advancing blank for returning the blank to said back stop upon the completion of its advancing movement, and mechanism for withdrawing said means from said blank path to permit further advance of the blank.

1,346,590. ENGINE STOP-GEAR. DAVID COCKBURN and DONALD MACNICOLL, Cardonald, near Glasgow, Scotland. Filed Jan. 19, 1920. Serial No. 352,534. 1 Claim. (Cl. 137—139.)



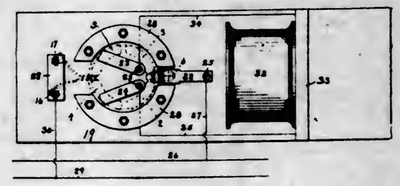
In an engine stop gear, the combination with an emergency valve, a load tending to close said valve, a cylinder having a by-pass connection between its ends, said cylinder open to pressure fluid, a piston in said cylinder, an operative connection between said piston and said valve, an auxiliary cylinder interposed in said by-pass connection, and an auxiliary piston movable in said auxiliary cylinder and serving to control said by-pass connection.

1,346,591. DISPLAY-BOX FOR WATCHES. WILBUR C. COOK, Waltham, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 26, 1915. Serial No. 30,560. 3 Claims. (Cl. 217—10.)



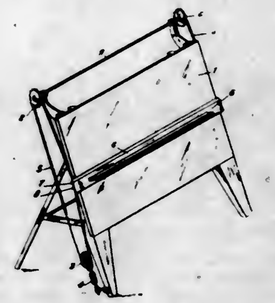
1. A box for watches comprising a substantially rectangular receptacle having back, top, bottom and side walls, and a front wall hinged to the free edge of one of said side walls and forming a closure for the receptacle; the upper portions of said back and side walls, and of said front wall, being reduced in thickness throughout their respective areas, to thereby provide a ledge extending about the receptacle; and a hollow holding cover rectangular in form adapted to fit over the reduced upper portion of said receptacle and having a top wall overlying the top wall and the free upper edge of the front wall thereof, and the lower edge of which cover rests upon said ledge; the thickness of the side walls of said cover being such that their outer surfaces are substantially continuous with and lie in the same planes as the corresponding surfaces of the lower portions of the back, side and front walls of said receptacle.

1,346,592. FIELD-COIL-TESTING DEVICE. JASPER F. CULLIN, Detroit, Mich., assignor to William J. Hartwig, Detroit, Mich. Filed Jan. 26, 1920. Serial No. 353,912. 5 Claims. (Cl. 175—183.)



1. A testing device for the field coils of electric machines comprising contacts and connections for passing a current through each of two groups of adjacent coils, a current indicator, and circuits and a pair of contacts to connect the indicator between the coils of each group.

1,346,593. DRAWING-BOARD. HENDRIK DE CLERCQ, Amsterdam, Netherlands. Filed May 7, 1920. Serial No. 379,611. 1 Claim. (Cl. 33—80.)



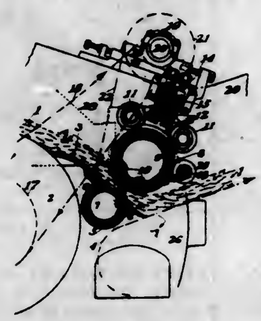
In combination, a drawing board, guide wheels connected with said board at both sides thereof, endless chains led around said wheels, a ruler both ends of which are associated with said chains so as to be adapted to be moved over the board in parallel relation with itself, screws fixed in the ruler to connect each end thereof with two points of the corresponding chain in two points suitably spaced apart, and nuts on said screws by which the distances between the ruler and the points wherein said screws engage their chain may be so adjusted as to produce an angle in said chain, and consequently a couple tending to press the top edge of the ruler against the board.

1,346,594. APPARATUS FOR MACERATING BAGASSE. NOEL DEERR, Brooklyn, N. Y. Filed Nov. 26, 1917. Serial No. 204,064. 37 Claims. (Cl. 100—47.)

1. In an apparatus for macerating bagasse, in combination, a perforated rotating element, means for rotating said element, means for supplying liquid to the interior of said rotating element and means for distributing the liquid to the bagasse.

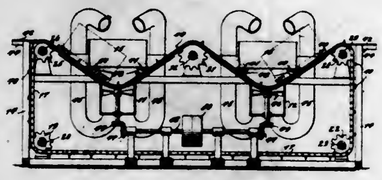
15. In an apparatus for supplying liquid to bagasse in transit from one unit of a train of sugar cane mills to the next unit in series in combination perforated rotating elements, means for rotating said elements, means for supplying liquid to the interior of said rotating elements, means for distributing the liquid to the bagasse and means for retaining the superior rotating element in position,

said means including rollers located near the ends of the perforated rotating element, in contact with said perforated rotating element and located so as to prevent any



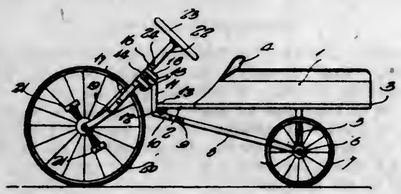
lateral movement of said perforated rotating element while permitting vertical movement of said perforated rotating element.

1,346,595. WASHING-MACHINE. CHARLES H. J. DILG, New York, N. Y. Original application filed Mar. 26, 1913, Serial No. 757,043. Divided and this application filed Dec. 12, 1918. Serial No. 266,404. 3 Claims. (Cl. 141—9.)



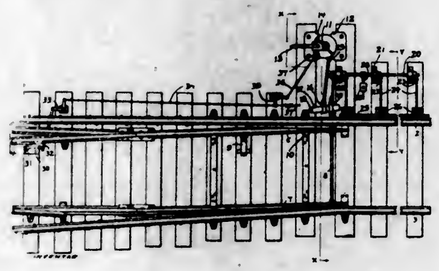
3. A dish washing machine comprising a carrier for the dishes, a plurality of tanks having inclined ways leading into and out of the tanks, a set of spouts for each tank arranged to direct streams of water eccentrically into the tank so as to produce a rotary motion therein, means for supplying water to each set of spouts, and means for conveying the carrier along the inclined ways and through the tanks in the range of the successive sets of spouts whereby it is subjected successively to the combined action of the streams from each set of spouts.

1,346,596. COMBINED VELOCIPEDE AND WAGON. ELMER JOB DOYLE, Detroit, Mich. Filed Aug. 18, 1919. Serial No. 318,240. 4 Claims. (Cl. 208—45.)



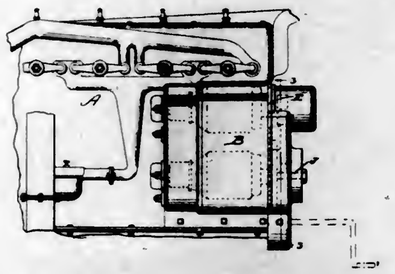
1. In a combined velocipede and wagon, a front wheel having pedals, a fork mounted on said wheel and having steering means at the upper end of its shank, a hanger depending from and pivoted to said shank, rearwardly diverging bars secured to the lower end of said hanger, an axle to which the rear ends of said bars are attached, wheels on said axle, a combined load carrier and driver's seat secured at its front end to said hanger, and means supporting the rear end of said combined carrier and seat from said axle.

1,346,597. SAFETY DEVICE FOR POINT-SWITCHES. LOUIS DUNN, St. Paul, Minn. Filed Aug. 7, 1918. Serial No. 248,733. 4 Claims. (Cl. 246—151.)



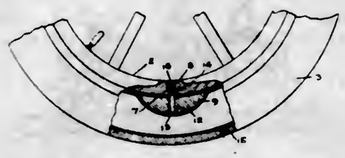
1. The combination, with the main track rails, of the movable switch points, a switch lever operatively connected with said switch points, mechanism for automatically throwing the switch points to a neutral position when the train passes onto the siding, and means for preventing the movement of the switch points until the last truck has passed from the main track rails to the siding, said means including a bar, rocking arms whereon said bar is mounted for moving it toward or from the path of the car wheels, a shaft, cranks mounted thereon, and links connecting said cranks with said arms.

1,346,598. STARTER FOR INTERNAL-COMBUSTION ENGINES. FRANK E. FISHER, Detroit, Mich. Filed Feb. 24, 1919. Serial No. 278,623. 2 Claims. (Cl. 290—47.)



1. In a device of the character described, the combination of an internal combustion engine, a time gear casing, a time gear mounted on the cam shaft of the engine, a gear mounted on the crank shaft of the engine and meshing with the time gear and an electric starter and generator unit comprising a casing secured to the time gear casing at one side thereof, a generator arranged within the latter casing, a pinion mounted on the generator shaft and meshing with the time gear, a motor mounted within the casing of said unit, a pinion mounted on the motor shaft and a train of gearing also arranged within the casing of the said unit and meshing with the pinion of the motor shaft and connecting the same with the generator shaft.

1,346,599. FLAT-TIRE SIGNAL. DAVID D. GETMAN, Minneapolis, Minn., and JOSEPH P. STERNHAGEN, Glasgow, Mont.; said Getman assignor to said Sternhagen. Filed Mar. 6, 1917, Serial No. 152,473. Renewed Dec. 6, 1919. Serial No. 343,109. 3 Claims. (Cl. 116—34.)



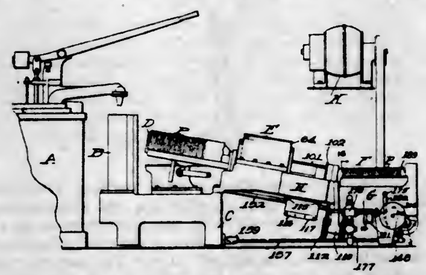
1. In combination, with a pneumatic tire, of a block interposed between the inner wall of the tire tube and the casing and having a convex surface for contact with the tube wall and provided with a comparatively broad bearing thereon to protect said tube from injury, said block being sufficiently rigid to obstruct the turning of the wheel and produce a jarring or bumping effect when the tire is deflated, a signal device comprising a cartridge mounted in the wheel rim, and means actuated through the pressure of the load on said block when the tire is deflated for exploding said cartridge.

1,346,600. MOLDBOARD FOR PLOWS. CARL GLEICHE, Berlin, Germany, assignor to Stock Motorpflug Gesellschaft mit Beschrankter Haftung, Berlin, Germany, a Corporation of Germany. Filed Oct. 6, 1914. Serial No. 865,315. 2 Claims. (Cl. 97—18.)



1. An attachment for plows, comprising, as a self-contained unit, a frog or standard having means for securing it detachably to a plow-beam, a share and a mold-board secured to said frog or standard, said mold-board including rearwardly-extending superposed spaced strips, and said frog or standard having an eye or sleeve at a level about half-way of its height, individual braces each having one end secured to a different strip of the mold-board detachably, and securing means, coöperating with said eye or sleeve, for effecting a connection of the other brace ends with said frog or standard.

1,346,601. MACHINE FOR FINISHING STEREOTYPE PRINTING-PLATES. CHARLES E. HOPKINS, New York, N. Y. Original application filed Feb. 25, 1911, Serial No. 610,834. Divided and this application filed Apr. 2, 1917. Serial No. 159,117. 58 Claims. (Cl. 29—21.)



1. In a stereotype plate finishing machine, the combination of a shaft having finishing devices, with axially movable supports carried on transverse axes by said shaft for supporting a printing plate.

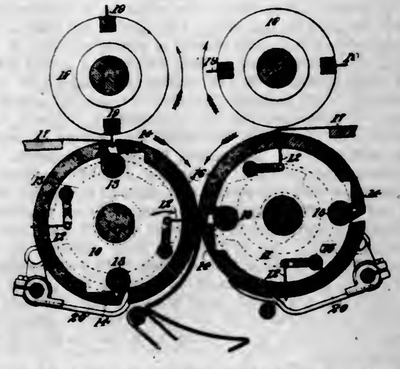
2. In a stereotype plate finishing machine, the combination with a shaft, finishing devices connected with said shaft, rollers carried by said shaft for supporting the edges of the plate when introduced into the finishing machine, and means for retracting said rollers inwardly.

3. In a stereotype plate finishing machine, the combination of an arch, a shaft having finishing devices located adjacent to the arch, rollers on the shaft for receiving the plate, means for clamping the plate in the arch, and means for retracting the rollers inwardly so that the shaft can rotate and the rollers can pass around inside the plate.

4. In a stereotype plate finishing machine, the combination of a shaft, finishing means carried thereby, and two series of rollers arranged along opposite sides of said shaft rotatable on axes transverse to the axis of said shaft, and means for withdrawing said rollers inwardly along their axes.

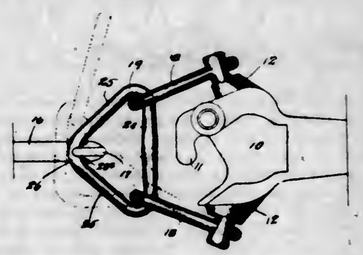
5. In a stereotype plate finishing machine, the combination of a shaft having finishing devices, a series of rollers mounted thereon, a reciprocable cam, and means connected with said cam for moving the rollers transversely to the axis of said shaft.

1,346,602. INTERFOLDING-MACHINE. CLARENCE LORAN JOHNSTON, Oakland, Calif., assignor of one-half to Horace P. Brown, Oakland, Calif. Filed Sept. 10, 1919. Serial No. 322,832. 7 Claims. (Cl. 270—39.)



1. In an apparatus of the character described, means for folding a pair of webs of paper and means for completely severing one of said webs at the time of folding without puncturing the other web.

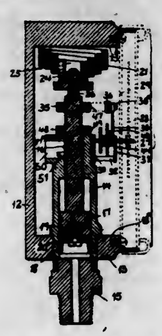
1,346,603. CAR-COUPLING. NICHOLAS PAVLOVITCH KEMMER, London, England. Filed Oct. 7, 1918. Serial No. 257,117. 2 Claims. (Cl. 213—65.)



1. In combination with an M. C. B. standard coupler head provided on its sides with projecting portions and

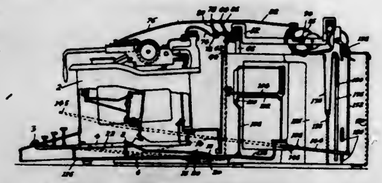
a draw bar provided with a hook, a coupling comprising a pair of closed links adapted to engage the projecting portions on the coupler head, a triangular link connected to said pair of links and adapted to engage the hook on the draw bar, and keys passing through the projections on the coupler head, one end of said keys being provided with a laterally projecting finger and the opposite end being provided with a movable detent.

1,346,604. PRESSURE-GAGE. COLEMAN J. MANNING, Medford, Mass. Filed May 8, 1919. Serial No. 295,674. 2 Claims. (Cl. 73—111.)



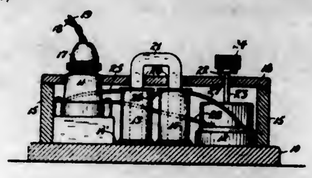
1. A pressure gage comprising a casing, a cylinder fixed to and inclosed in the casing and having an inlet at one end projecting from the casing, a piston movable in one direction in the cylinder by fluid pressure, a spring seated on a fixed abutment in the casing and adapted to move the piston in the opposite direction, registering means including a revoluble pointer, connections between said pointer and the piston whereby the pointer is moved by a movement of the piston in either direction, and an expansible frictional retarding member secured to and movable with the piston and exposed to contact with fluid entering the cylinder, said member being adapted to be expanded and held in frictional contact with the internal surface of the cylinder by fluid pressure at the inlet end of the cylinder, whereby lost motion of the piston, the pointer, and the connections between the piston and the pointer is prevented, stop means being provided for limiting the movement of the piston by the spring and causing the spring to normally hold the pointer at its starting point.

1,346,605. TYPEWRITING-MACHINE. GAILEN F. MAPES, Minneapolis, Minn. Filed Feb. 25, 1918. Serial No. 218,953. 12 Claims. (Cl. 197—5.)



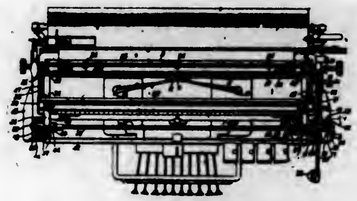
1. A typewriting machine comprising a main and an auxiliary printing device, two platen carriages associated respectively, with said printing devices, a manually operated lever adapted to be placed in two different positions, means operated by said lever which, in one of said positions connects said carriages for movement in unison and in the other of said positions disconnects them from each other, means tending to automatically move the auxiliary carriage in one direction, and an adjustable stop which, when said carriages are disconnected, limits the amount of movement of the auxiliary carriage in such direction.

1,346,606. ELECTRICAL APPARATUS. CHRISTIAN M. PETERSEN and OSCAR J. BODEN, San Francisco, Calif. Filed June 4, 1919. Serial No. 301,715. 5 Claims. (Cl. 175—21.)



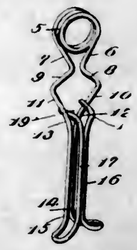
1. In combination with a pair of magnet energizing coils a switch, fixed contacts within said switch, movable contacts normally out of register with said fixed contacts, and means whereby a flying contact may be made between the movable and fixed contact members.

1,346,607. TYPEWRITING-MACHINE. JOSEPH PHELPS, Belleville, N. J., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed May 22, 1917. Serial No. 170,199. 28 Claims. (Cl. 197—153.)



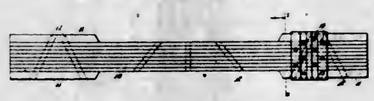
1. In a writing machine, the combination of ribbon mechanism comprising a ribbon carrier, a guide movable independently of said carrier, said guide being arranged so that a comparatively long strip of ribbon is exposed opposite the printing line, and means tending to prevent the displacement of the exposed portion of the ribbon widthwise of the printing line and for taking up slack resulting from the movement of the guide independently of said carrier to carry the exposed portion of the ribbon away from and back to its normal position opposite the printing line.

1,346,608. WIRE CLOTHESPIN. CHARLES S. PRATT, Eau Claire, Wis. Filed Oct. 4, 1918. Serial No. 256,853. 1 Claim. (Cl. 24—261.)



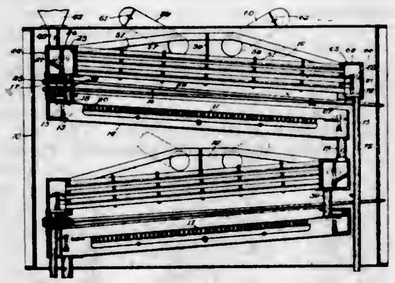
A clothes pin consisting of a single resilient wire bent upon itself with resultant parallel legs and a connecting bight portion, the legs adjacent the bight portion being bowed apart for receiving a clothes line and below the bowed portion being in mutual contact, the extreme end portions of the wire being bent upon the corresponding legs and continued in parallel relation past the bottoms of the bowed portions, the extremities of the wires passing between the bowed portions and hooked about the corresponding legs, with resultant close lying shoulders to receive and clamp clothing against the under side of a clothes line passing between the bowed portions.

1,346,609. COMPOSITE RAILWAY-TIE. ALBERT REVERT, Oakland, Calif. Filed Feb. 9, 1920. Serial No. 357,487. 2 Claims. (Cl. 238—36.)



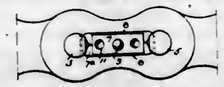
1. A composite railway tie consisting of a series of longitudinally extending comparatively narrow sections laid side by side and a plurality of dowels passing obliquely through said sections to retain them together, said dowels being oppositely inclined.

1,346,610. DRY SEPARATOR. FRANK M. SMITH, Chicago, Ill. Filed June 18, 1919. Serial No. 305,097. 20 Claims. (Cl. 83—38.)



1. In a separator of the character described, the combination of a foraminous support for the material to be treated, an air-trunk above said support, means to subject said air-trunk to suction, a receptacle in said air-trunk adapted to receive material deposited therein by the air, and means to vibrate said air-trunk and receptacle independently of said support, substantially as described.

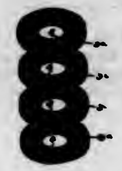
1,346,611. DETACHABLE CONNECTING-LINK. FENTON J. SPAULDING, Chicago, Ill., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 23, 1918. Serial No. 263,857. 4 Claims. (Cl. 74—49.)



2. The combination in a detachable connection for chains, of two links; two pivot pins attached to one of said links and extending through openings in the said link, each pin being notched; and a plate pivotally connected to the last mentioned link between the pins and having projecting portions arranged to enter the notches in the pins, said plate having a flange.

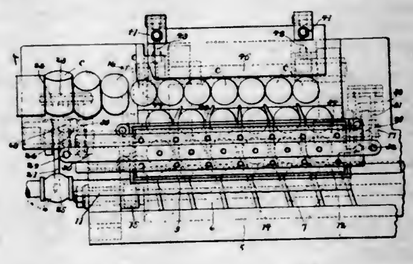
1,346,612. DISK FOR FLEXIBLE COUPLINGS AND PROCESS OF MAKING SAME. ROBERT J. STOKES, Trenton, N. J., assignor to Thermoid Rubber Company, Hamilton township, N. J., a Corporation of New Jersey. Filed May 26, 1919. Serial No. 299,957. 4 Claims. (Cl. 154—2.)

1. The process herein described of making transmission disks for flexible couplings, said process consisting in first making a rubberized, impregnated multiply fabric in which the several plies run in the same direction, then cutting the disk sections from the fabric and so assembling the sections that the warp threads of one section will be at an angle to the warp threads of another section, then



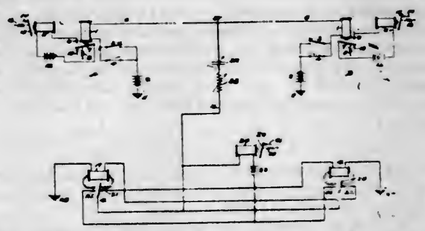
clamping the two sections in a mold and vulcanizing, or curing, the assembled disk sections so as to make a composite transmission disk in which some of the warp threads are arranged at an angle to other warp threads.

1,346,613. GANG FILLING AND CLOSING MACHINE. JOHN C. TALIAFERRO, Baltimore, Md., and IVAR F. WARME, Syracuse, N. Y., assignors to Continental Can Company, Incorporated, Syracuse, N. Y., a Corporation of New York. Filed July 18, 1916. Serial No. 109,972. 2 Claims. (Cl. 226—95.)



1. The combination of means for simultaneously filling a plurality of cans, means for receiving the empty cans from a runway, a reciprocating member for moving a plurality of empty cans from the runway to and beneath the filling means whereby they may be simultaneously filled, devices for separating the cans from each other as they are moved beneath the filling means, continuously moving means for feeding the cans one at a time and in spaced and timed relation to a closing machine, and means for simultaneously feeding the spaced cans beneath the filling means onto the feeding means for the closing machine and properly spaced and in timing for operation thereon by the closing machine as they are delivered thereto.

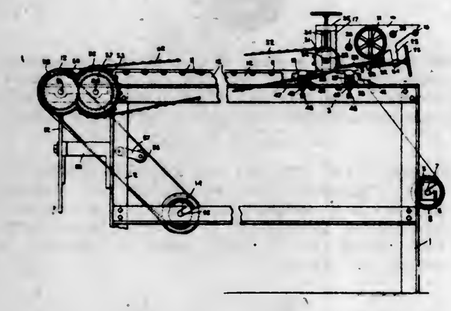
1,346,614. METHOD OF RECEIVING TELEGRAPH-SIGNALS. CHESTER H. TEEGARDEN, Washington, D. C. Filed Sept. 9, 1918. Serial No. 253,308. 14 Claims. (Cl. 178—2.)



3. A supplementary receiving set for a simplex telegraph line, comprising two relays, each relay being connected

across the line, two sets of contacts, one set controlled by each relay, each set of contacts being interposed in the circuit of the other relay, respectively, two further sets of contacts, one set being controlled by each relay, and a sounder circuit controlled by said two further sets of contacts.

1,346,615. PROCESS FOR COATING FABRICS. ANDREW THOMA, Cambridge, Mass., assignor to Abraham Sydeman, Boston, Mass. Filed Sept. 12, 1916. Serial No. 119,751. 13 Claims. (Cl. 91—49.)



9. The process of coating fabrics which comprises supplying a rotating dope spreading cylinder with a film of plastic dope of predetermined thickness, and progressively moving a web of fabric across the dope spreading cylinder.

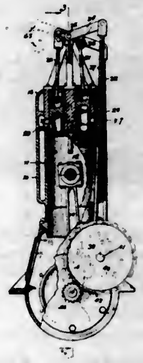
1,346,616. PACKING APPARATUS. ALBERT R. TREICHEL and EDWARD J. BAOCK, St. Louis, Mo. Filed Jan. 17, 1920. Serial No. 352,200. 6 Claims. (Cl. 286—22.)



1. In packing apparatus, the combination of a stuffing-box having a bore and forming an annular packing chamber around the member to be packed, oppositely disposed packing-members received in the packing chamber for engaging opposite sides of the member to be packed, means for resiliently pressing the packing-members toward each other, said packing-members having alining grooves coöperating to form a continuous annular groove passing around the exterior of the packing-members, and a split expansion ring fitting in the annular groove, exerting its pressure against the bore of the stuffing box and packing the space between the packing-members and the face of said bore.

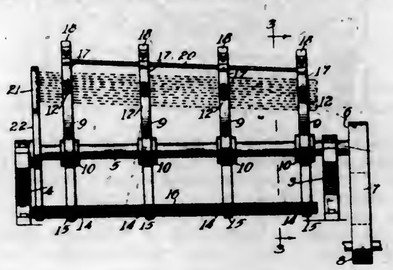
1,346,617. VALVE MECHANISM. INGLIS M. UPPERCU, New York, N. Y. Filed Feb. 3, 1917. Serial No. 146,466. 9 Claims. (Cl. 123—75.)

1. In a four cycle engine, an explosion cylinder, inlet and outlet passages opening thereto at one end of the cylinder, lateral ports opening to said passages, valves balanced against each other but working in said passages subject to the pressure in the explosion cylinder, together



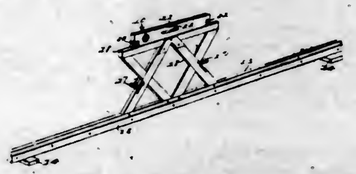
with means to operate said valves simultaneously in opposite directions with balanced action, on the principle of a four cycle engine.

1,346,618. METHOD AND APPARATUS FOR COATING PIPES, BARS, ANGLES, AND THE LIKE. EDWARD L. WATROUS, El Paso, Tex.; Agnes B. Watrous executrix of said Edward L. Watrous, deceased. Filed Jan. 21, 1918. Serial No. 212,908. 19 Claims. (Cl. 91—59.1.)



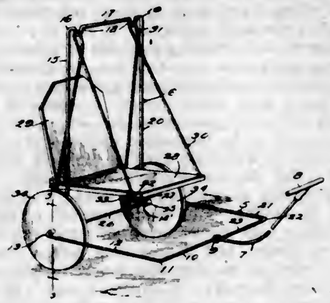
1. In apparatus of the class described, a support, a shaft rotatably mounted in said support, means on said shaft for holding freshly coated elongated articles, and means for rotating said shaft to cause said articles to rapidly move in a path substantially transverse to their length, whereby to throw off excess coating material.

1,346,619. FARM-LEVEL. JOHN ROBBERT WEATHERSBY, Middlesex, N. C. Filed Jan. 15, 1920. Serial No. 351,654. 2 Claims. (Cl. 33—207.)



1. A device for the purpose described having a main base beam, a rest bar arranged in parallelism with the said beam, a spacing frame between the rest bar and beam and provided with grips or handles, and means carried by the rest bar for engaging a spirit level.

1,346,620. TOY SWINGING CHAIR. CHARLES L. WECHT, Logansport, Ind. Filed Jan. 23, 1920. Serial No. 353,507. 2 Claims. (Cl. 46—48.)



1. A toy of the character described, comprising a substantially horizontal frame section and a substantially vertical frame section, said frame sections being bent from a single piece of wire, the ends of the piece of wire being secured together at the forward end of the substantially horizontal frame section with one end extending forwardly to form a tongue, the wire at the union of the horizontal and vertical frame sections being bent to form axles, wheels mounted upon the axles, and a member suspended from the substantially vertical frame section.

1,346,621. BOTTLE-CLOSURE ATTACHMENT. SAMUEL T. WHITAKER, Columbus, Ga., assignor of fifty-one per cent. to Ralph B. Small, Columbus, Ga. Filed Dec. 18, 1915. Serial No. 67,657. 2 Claims. (Cl. 215—1.)

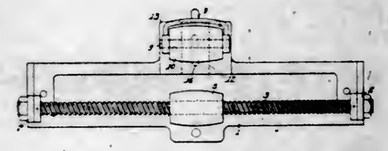


1. The combination with a cap removing tool having a flat body portion with a laterally turned projection at one end, and a crimped cap flange-engaging hook portion projecting from the body in the same direction as said end and in spaced relation thereto, said body portion being reduced in width adjacent said hook portion, of means for securing the cap removing tool to a bottle having a bead at the terminus of its neck, said means comprising a band adapted to surround said bottle neck and engaging the reduced portion of the tool at that side of the hook farthest removed from the bent end thereof, whereby that portion of the cap removing tool including the hook lying between the bead of the bottle neck and the band is held against movement in one direction by said bead and in the other direction by said band.

1,346,622. AWNING-ROLLER SUPPORT. JOHN C. WILLIAMS, Warwood, W. Va. Filed Dec. 1, 1919. Serial No. 341,751. 5 Claims. (Cl. 156—44.)

1. A center support for roller awnings, comprising parallel worm shafts, and supporting rollers mounted for travel on said shafts.

2. A center support for roller awnings, comprising parallel worm shafts of opposite pitch, and supporting rollers mounted for travel in reverse directions along said shafts.



3. A center support for roller awnings, comprising parallel shafts, supporting rollers mounted for travel on said shafts, said shafts having materially greater length than said rollers, and a retaining roller overhanging said shafts at a point substantially midway between the ends of the latter.

4. A center support for roller awnings, comprising parallel worm shafts having the threads thereof reversely disposed, supporting rollers mounted for travel in reverse directions on said shafts, and a retaining roller overhanging said shafts.

5. A center support for roller awnings, comprising parallel worm shafts having the threads thereof reversely disposed, supporting rollers mounted for travel in reverse directions on said shafts, and a retaining roller overhanging said shafts at a point substantially midway between the ends of the latter.

1,346,623. METHOD OF MAKING TIRE-CASINGS. WILLIAM ERASTUS WILLIAMS, Chicago, Ill., assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 21, 1917. Serial No. 150,265. 5 Claims. (Cl. 154—14.)

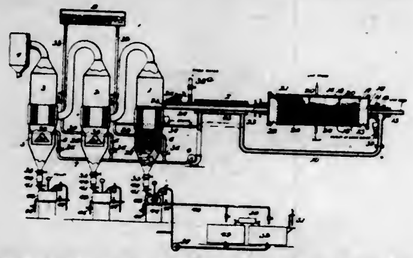


1. The method of making tire casings from fabric, comprising forming said fabric into a ring of smaller circumference than a core, exerting an expanding force on the ring, relaxing said force simultaneously at all points about the ring and allowing the center of the ring to shape itself to the centerd of the core and then shaping the skirts of the fabric to the core.

1,346,624. PROCESS OF PURIFYING SALT. FRANK J. WOOD, Brooklyn, N. Y., assignor to Worcester Salt Company, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1916. Serial No. 139,761. 9 Claims. (Cl. 127—14.)

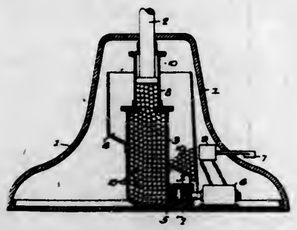
7. In a salt purifying process, withdrawing a flow of brine from the last vacuum pan in a series thereof in multiple effect, heating the flow and precipitating impurities

therefrom by the injection of a steam jet, filtering the flow, and returning the flow to the first vacuum pan of the



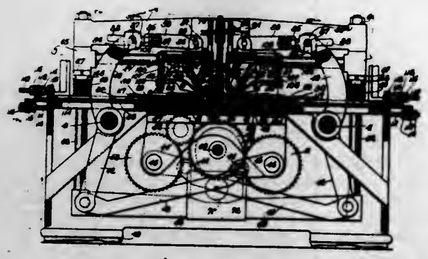
series and then to the succeeding pans, and precipitating salt in each of the pans.

1,346,625. POWER-TRANSMITTING APPARATUS. ROBERT S. WOODWARD, Jr., Philadelphia, Pa. Filed Sept. 4, 1919. Serial No. 321,524. 6 Claims. (Cl. 138—9.)



1. The combination of a cylinder; a plunger operative therein; a reservoir; a pump connecting the reservoir and the cylinder; a motor for driving the pump, means for controlling the motor; and a series of relatively hard balls movable by the pump from the reservoir to the cylinder to actuate the plunger.

1,346,626. CUTTING-MACHINE. CHARLES W. BAILEY and JOHN HAMMOND STEWART, Lynn, Mass.; said Bailey assignor to said Stewart. Filed Mar. 25, 1915, Serial No. 17,009. Renewed Mar. 16, 1920. Serial No. 366,438. 47 Claims. (Cl. 12—62.)



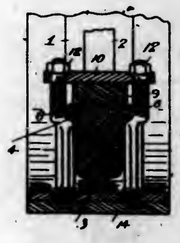
1. A cutting machine including two knives mounted to move apart and toward one another, a work support, means for holding the end portions of the work at an inclination to and extending across the paths in which the edges of said knives travel, and means coöperating with the work support for holding the intermediate part of the work at one side of such paths, whereby the work is cut at both ends on a bevel.

3. A machine for clipping the ends of a counter blank on a bevel comprising a work support and a presser arranged to grip the blank at a distance from its ends, two knives guided to travel from a point near the gripped part of the blank outwardly toward the ends thereof, said knives being arranged with their edges transverse to the direction in which they travel, and means for inclining the ends of the blank so as to cause such ends to cross the paths of the knife edges.

5. A machine for clipping the ends of counter blanks, comprising two knives guided to move in a definite path and each having its edge arranged transverse to its direction of travel, work holding means arranged to support said blank so that a portion thereof crosses the path of each knife edge at an inclination thereto and a yielding presser traveling with each knife in the path thereof arranged to press the work against the support.

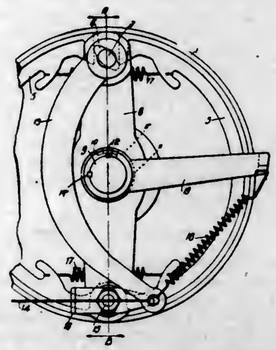
9. In a cutting machine, guiding means, a knife carrier arranged to travel on said guiding means, a knife block having flanges, said carrier being provided with recesses adapted to receive said flanges in a readily removable manner, clamps for securing said flanges in said recesses, the knife block having an inclined end wall, and a knife secured to said end wall with its cutting edge projecting beyond an adjacent side wall of the block.

1,346,627. TIRE-TREAD. WILLIAM BARBER, New York, N. Y., assignor to Ada S. Barber, Brooklyn, N. Y. Filed Oct. 20, 1915. Serial No. 56,995. 7 Claims. (Cl. 21—161.)



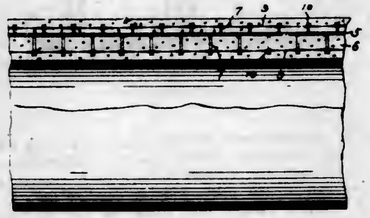
1. The combination with a vehicle rim and tire therefor, of an auxiliary detachable tire arranged radially beyond the tread surface of said first mentioned tire and extending across the lateral width thereof, means for mounting said auxiliary tire on said wheel, including means for supporting said auxiliary tire by the rim of said wheel on opposite sides and independently of said first mentioned tire.

1,346,628. AUTOMATIC BRAKE. VINCENT BARNINGHAM, Reading, and SYDNEY GUY ASHBY, Edenbridge, England. Filed Mar. 24, 1920. Serial No. 368,440. 20 Claims. (Cl. 188—112.)



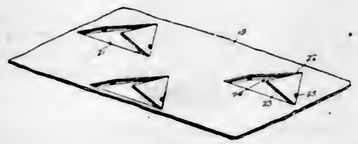
1. In an automatic brake, a non-revoluble axle, a road wheel revoluble on the axle, a brake drum revolving with the road wheel, an arm carried by the axle, brake shoes pivoted at one end to the said arm and engaging with the brake drum when forced apart, a lever pivoted to the other end of the said arm from the brake shoes and provided with means for forcing them apart, a spring for applying the brake connected to the free end portion of the said lever, and a draft attachment also connected to the free end portion of the said lever and while in operation preventing the said spring from actuating the lever and applying the brake.

1,346,629. REINFORCED-CONCRETE PIPE. GEORGE CORRIE BARTRAM, Massapequa, N. Y., assignor to United Concrete Pipe Co., New York, N. Y., a Corporation of Delaware. Filed Oct. 25, 1919. Serial No. 333,201. 7 Claims. (Cl. 72—53.)



1. A reinforced concrete pipe having an imperforate metal pipe embedded therein, and tie means mechanically connected to the face of the metal pipe and extending into the concrete to tie the latter thereto.

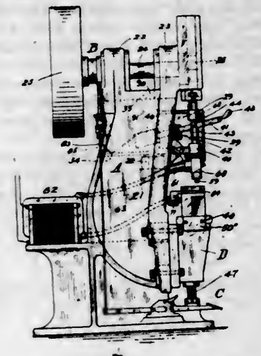
1,346,630. GRAIN-SEPARATOR. HUGO E. BEHRENS, Fargo, N. D. Filed Feb. 14, 1919. Serial No. 277,010. 1 Claim. (Cl. 130—19.)



In combination with a grain separator having a feed plate a sieve disposed below and spaced from said plate, said sieve comprising a body having converging ears upstruck therefrom and arranged in pairs thereon and providing V-shaped openings below the same, each of said ears having an aperture therein.

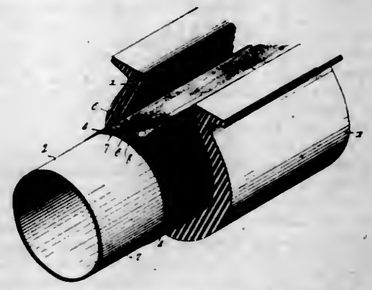
1,346,631. ELECTRIC RIVETING-MACHINE. PAUL M. BENEDICT, New Haven, Conn., assignor to The Barnes & Kobert Manufacturing Company, Millidale, Conn., a Corporation of Connecticut. Filed Mar. 6, 1916. Serial No. 82,495. 11 Claims. (Cl. 219—2.)

1. In a machine such as described, the combination of separate die plates adapted to clamp the work between them, conductor plates in contact with the respective die plates, electric conductors connected with said conductor plates, and a movable electrode having a different electric



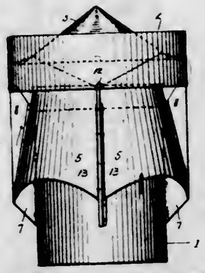
conductor connected thereto and adapted to make contact with the work; substantially as described.

1,346,632. INNER-TUBE COVERING FOR TIRES. FRANK S. BENNETT, Philadelphia, Pa. Filed Oct. 11, 1919. Serial No. 330,070. 3 Claims. (Cl. 152—18.)



2. As a new article of manufacture, a strip of fabric adapted to be folded so as to detachably envelop an inner tube of an inflatable tire, said strip being composed of a close-mesh, knitted textile fabric having the property of embedding foreign particles which may enter between said tube and its carcass or shoe, and reducing friction between said tube and shoe, and co-acting fastenings along the meeting edges of said strip, said strip having a binder along its edges, one of said edges having a flap to underlie the other edge.

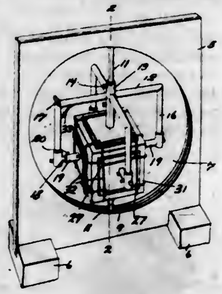
1,346,633. VENTILATOR. OSCAR E. CLOUD, Wichita, Kans. Filed Sept. 29, 1919. Serial No. 327,345. 1 Claim. (Cl. 98—4.)



A ventilator comprising a tubular eduction pipe, upwardly tapering fins integral therewith and vertically radiating around the outside thereof; a frusto-conical hood

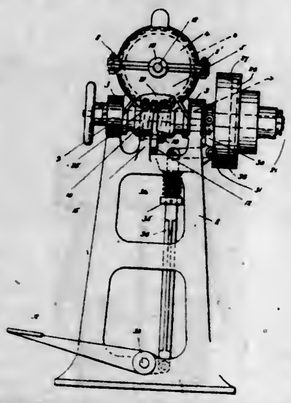
surrounding said pipe and extending above the upper end thereof and having an upper outwardly flared rim portion, said hood being supported by outer inclined edge portions of said fins; downwardly tapering fins without said hood, radiating in the same vertical plane with said first mentioned fins; an annular wind guard horizontally supported from upper portions of said outer fins, the lower edge of said guard lying in a plane below the plane of the flared rim of said hood; a conical cap, supported from and within said windguard, covering said eduction pipe; a conical deflector, having its base within said cap and its apex depending therefrom downwardly to a point below the plane of the flared rim of said hood and within said hood orifice; the upper edges of said inner and outer fins extending obliquely from the upper edge of said eduction pipe to the base of said windguard; all substantially in the manner disclosed and for the purposes as specified.

1,346,634. AMUSEMENT DEVICE. PRESSLY JOSEPH COBURN, Wellsville, Ohio. Filed July 8, 1919. Serial No. 309,342. 2 Claims. (Cl. 46—41.)



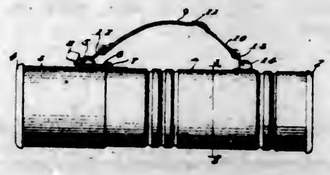
1. A device of the character described comprising a support having a circular opening provided with a way in the edge thereof, a ring rotatably fitted within the way and having axle pintles at diametrically opposite points, tubular shafts fitted adjustably on the pintles, radially extending arms formed on one of the shafts and having right angular extensions, stems carried by said arms and disposed parallel with the same, coacting clamping plates adjustably connected with the stems and with the tubular shafts, and removable pins carried by the coacting clamping plates.

1,346,635. WINDING-MACHINE. JESSE F. COMSTOCK, Wilkes-Barre, Pa. Filed Oct. 13, 1919. Serial No. 330,239. 3 Claims. (Cl. 74—101.)



1. In a winding machine, a frame provided with bearings, a driving shaft journaled concentric with the said bearings, a casing pivoted concentric with the said shaft and provided with means for securing it to the frame at different angles, a worm secured on the said shaft, a winding shaft journaled in the casing to one side of the driving shaft, a worm wheel secured on the winding shaft and gearing into the said worm, and a face-plate secured on the winding shaft outside the casing.

1,346,636. CARRIER FOR EXPLOSIVES. CHARLES A. COTTLE, Edwardsville, Pa. Filed Nov. 18, 1919. Serial No. 338,873. 1 Claim. (Cl. 206—1.)



A device of the character described comprising a cylindrical casing including a body closed at one end and open at the other end, and a cover telescopically engaging over the open end of the body, staples carried by the body and the cover, a hasp pivoted upon the body and engageable over the staple on the cover, and a strap connected with said staples and serving as a handle, the connection of the strap with the staple on the cover also preventing disengagement of the hasp therefrom.

1,346,637. GARNET-CYLINDER. HERBERT V. COULSTON, Philadelphia, Pa., assignor to Smith and Furbush Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 12, 1919. Serial No. 282,246. 3 Claims. (Cl. 19—22.)

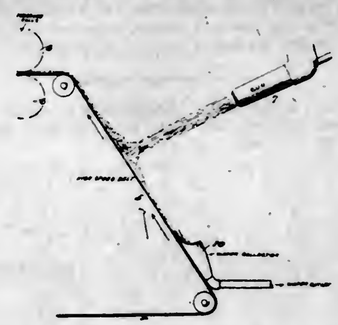


1. A cylinder of a garnet machine made of wire having teeth and having an offset portion at one side of the teeth, the wire being arranged in helical form with the convolutions close together, one convolution being attached to the other by spot welding, forming an integral structure.

1,346,638. METHOD AND MEANS FOR MAKING ARTIFICIAL-STONE PRODUCTS. ALFRED CROOK and RICHARD D. CHAPMAN, Philadelphia, Pa., assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Apr. 11, 1919. Serial No. 289,346. 10 Claims. (Cl. 25—42.5.)

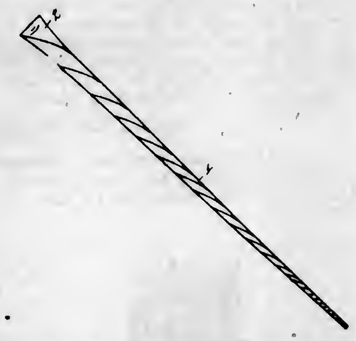
1. The method herein-described, which consists in subjecting a mixture of artificial stone material to the impelling force of a blast, completing the mixing of such material by impact, and thereafter compacting it under pressure.

10. Apparatus for the purpose stated, comprising the combination of a rapidly driven upwardly traveling in-



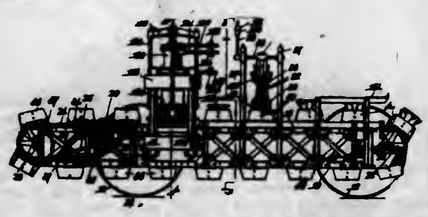
clined belt or apron, means for supplying it with a continuous charge of plastic material, and pressure rolls operatively disposed with relation to the apron.

1,346,639. ARROW. IRVING L. DAVIS, Dayton, Ohio. Filed Nov. 25, 1919. Serial No. 340,556. 1 Claim. (Cl. 102—26.)



As a new article of manufacture, an arrow made of paper and having a tapered form throughout its length and made hollow, the larger end thereof being flattened and united by an adhesive to form a rudder to direct the flight of the arrow and to prevent the paper from unwinding

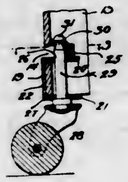
1,346,640. BLOCK-MAKING MACHINE. ELLSWORTH A. DEWEY, Tampa, Fla. Filed July 19, 1917. Serial No. 181,515. 87 Claims. (Cl. 25—100.)



5. In a device of the class described, a vehicle, a press on said vehicle, a carrier movable through said press, a power mechanism, a clutch in said mechanism, means for automatically disengaging said clutch when said carrier has moved a predetermined distance, and means for resetting said clutch.

23. In a device of the class described, a press, a mold capable of moving through said press, the said mold having relatively movable walls inclined on their outer faces, a movable centering frame on said press to receive said mold, rollers on said frame, the said rollers being arranged in pairs and the rollers of each pair being disposed at substantially the same angle as that of said inclined faces, whereby said walls will be forced inwardly when said frame is moved into operative position.

1,346,641. CASTER-CONNECTING DEVICE. ROSS J. ELLSWORTH, Philadelphia, Pa. Filed Nov. 8, 1919. Serial No. 336,642. 2 Claims. (Cl. 16—4.)



1. The combination of a supporting member having an aperture; a retaining clip having a portion projecting into said aperture and another part embracing a portion of said supporting member, said portion of the clip having a hole therein and a resilient part adjacent said hole; and a caster having a spindle projecting upwardly through said hole, said spindle having a part of reduced diameter providing a notch, said spindle having a portion adjacent said notch adapted to move said resilient part of the clip out of its normal position during the insertion of the spindle through said hole, said resilient part being operative to spring into said notch after said portion of the spindle has passed by it during said inserting movement thereof; substantially as described.

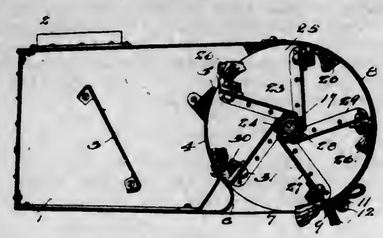
1,346,642. PROCESS FOR THE EXTRACTION OF LEAD AND ZINC FROM THEIR ORES. FRANK EDWARD ELMORE, Boxmoor, England. Filed Apr. 1, 1919. Serial No. 286,783. 2 Claims. (Cl. 75—18.)

2. Process for separating lead compounds from zinc compounds in lead-zinc sulfid ores, concentrates or the like consisting in heating the pulverized ore with a sufficient quantity of strong hydrochloric acid until substantially the whole of the lead has been converted into lead chlorid while the zinc sulfid remains substantially unattacked, cooling the heated mixture, washing the mass with a limited quantity of cold water to remove excess of acid and soluble impurities, then separating the lead chlorid from the zinc sulfid by extraction of the former with a hot solution of lead chlorid in water or in strong brine, separating the solution from the undissolved matter and cooling it to crystallize lead chlorid, separating the mother liquid from the crystals and using it when re-heated to leach a further batch of lead chlorid from zinc sulfid, the process being repeated so that the same quantity of solvent serves repeatedly to convey purified lead chlorid to the crystallizing vessel, while leaving zinc sulfid in a condition suitable for metallurgical treatment, heating the crystallized lead chlorid with sulfuric acid, dissolving the evolved hydrochloric acid in water and using the solution for treating a further batch of the ore.

1,346,643. SCRUBBING-MACHINE. FRANKLIN A. ESPELAND, Oakes, N. D. Filed Oct. 29, 1918. Serial No. 260,136. 1 Claim. (Cl. 15—14.)

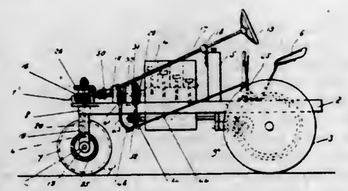
The combination with a casing formed with an open bottom cylindrical compartment having an upper opening communicating with a source of water supply, of a shaft journaled in the walls of the compartment, a hub and end

disks on the shaft, tangentially arranged plates carried by the hub and forming with the disks water receptacles, a wiper attached at the outer free edge of each plate



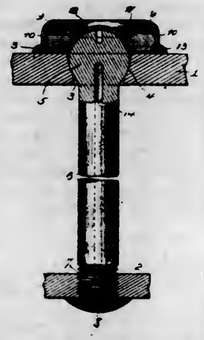
adapted to pass over said upper and lower openings, and a rubber extending across the casing adjacent to the bottom opening of the compartment.

1,346,644. TRACTOR. ED FLAIZ, Olathe, Colo. Filed Apr. 23, 1919. Serial No. 292,026. 1 Claim. (Cl. 180—26.)



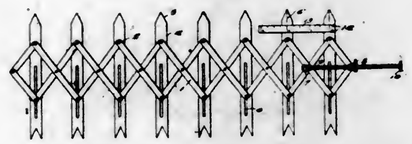
In a tractor, a frame, main ground wheels arranged at the sides of the rear part of the frame, a motor for driving the main ground wheels arranged at the middle part of the frame in front of their axis, a radiator for the motor arranged behind it and also in front of the axis of the main ground wheels, a steering and driving ground wheel pivoted on a vertical axis at the front part of the frame, a single countershaft arranged parallel to and in front of the crankshaft of the motor, and driving mechanisms operatively connecting the respective end portions of the said countershaft with the engine crankshaft and with the front ground wheel.

1,346,645. STAYBOLT STRUCTURE. JOHN ROGERS FLANNERY and ETHAN I. DODDS, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Sept. 10, 1919. Serial No. 322,873. 3 Claims. (Cl. 85—1.5.)



3. In a staybolt structure, the combination with a boiler sheet having an opening, of a staybolt having a head mounted in said opening said staybolt having a tell-tale hole extending from its inner end and terminating within the headed outer end of said bolt, a spring cap surrounding the opening in the boiler sheet and welded to the latter, said spring cap having a central depressed part provided with a portion bearing on the head of the staybolt.

1,346,646. MEASURING INSTRUMENT. HUGH F. GALLAGHER, Portland, Me. Filed June 29, 1918. Serial No. 242,520. 1 Claim. (Cl. 33—192.)



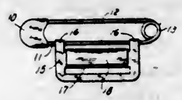
An instrument of the character described including crossed pivotally interconnected arms having marking members engaged therewith, a screw threaded adjusting rod rotatably engaged at one end with certain of the interconnected arms, an internally screw threaded block mounted on certain of the interconnecting arms and formed in two sections, one of said sections being pivotally connected with the other of the sections, and a spring catch for holding said block sections together to form substantially a micrometer adjustment with the screw threaded rod, and for releasing the pivoted block to permit of quick adjustment of the marking members.

1,346,647. WALL-PAPER-HANGING IMPLEMENT. PIOTER GERMASZEWSKI, South East Cleveland, Ohio. Filed Aug. 15, 1919. Serial No. 317,675. 1 Claim. (Cl. 216—6.)



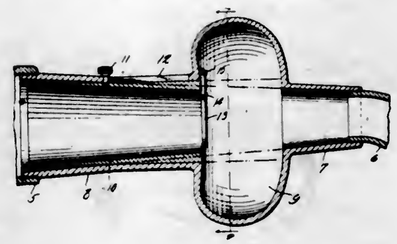
In a wall-paper hanging implement, the combination with a handle adapted for manual operation, a pair of side plates carried in spaced relation by said handle adapted to receive a roll of paper therebetween, and means for supporting a roll of paper, of a paste supplying tank, a brush rotatable therein, means for rotating said brush, a wiper adapted to remove surplus paste from said brush, rollers for pressing the paper upon the wall, a plate having an edge adapted to make contact with the paper, means for manipulating said plate whereby more or less pressure may be attained, and a pair of cutters adapted to sever the marginal edges of the paper when said implement is moved upward.

1,346,648. HOSE-SUPPORTER. THOMAS F. HANCOCK, Seymour, Conn., assignor to The Seymour Metal Goods Company, Seymour, Conn., a Corporation of Connecticut. Filed Dec. 9, 1919. Serial No. 343,552. 2 Claims. (Cl. 24—76.)



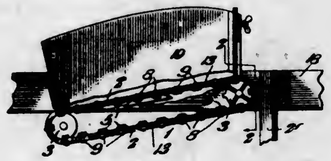
2. A hose supporter comprising a safety pin having a head carrying arm, and a frame pivotally secured to said arm, said frame comprising side pieces, a cross bar beneath which is a longitudinal slot, and an offset plate, the upper edge of said offset plate being attached to the upper edge of the cross bar for its approximate length, whereby a web may be inserted and clamped between said cross bar and offset plate, having its free end passed through said longitudinal slot, and around said cross bar so that it will suspend from the top thereof to exert additional pressure against the offset plate to hold it against the web.

1,346,649. SOUND-CONDUIT. EARLE H. HAND, Baltimore, Md. Filed Nov. 5, 1919. Serial No. 335,836. 2 Claims. (Cl. 181—0.5.)



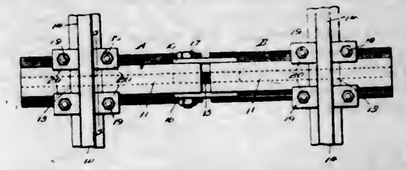
1. A sound conduit having a section provided intermediate its ends with a lateral expansion chamber in communication with the interior thereof, a sleeve slidably mounted in one end of the section, and adjustable to extend across the chamber for shutting off the same from the interior of the section, and a gate opposite that end of the sleeve into which the sound waves pass from the expansion chamber, said gate being dimensioned to partly close said end of the sleeve.

1,346,650. FERTILIZER-DISTRIBUTER. WILLIAM A. HENDRICKSON, Riverton, N. J., assignor to McWhorter Manufacturing Company, Riverton, N. J., a Corporation of New Jersey. Filed Apr. 28, 1919. Serail No. 293,253. 6 Claims. (Cl. 193—26.)



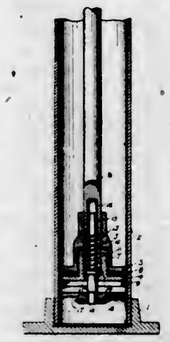
1. In a device of the character stated, an endless belt, means for actuating it, transverse bars secured to said belt and having terminal straight pins at each end thereof, inner links common to a pair of pins of a pair of adjacent bars, and outer oblong washers secured to a pair of pins of each bar for retaining said inner links in position.

1,346,651. RAILWAY-TIE. CHRIST HERMINGHUYSEN, Van Wert, Ohio. Filed May 13, 1920. Serial No. 380,997. 2 Claims. (Cl. 238—31.)



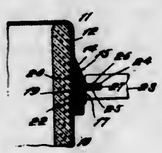
1. A railway tie of the character described, comprising a pair of sections, each formed with spaced vertical webs having integral top and bottom portions, said top portion being formed with a rail seat transversely thereof, extensions on the webs of one section and pivotally engaged with the webs of the other section for flexibly connecting the sections together, and means carrier by the top portions of the sections for the fastening of rails in the seats.

1,346,652. PUMP. CLAUD J. HINSHAW and HARRY B. CASTOR, Lapel, Ind. Filed Feb. 21, 1920. Serial No. 360,499. 6 Claims. (Cl. 103—63.)



1. A pump comprising a cylinder member and a piston therein having an expansible packing element, and an expanding device for the packing element movably mounted on the piston and adapted to engage the cylinder at the end of the piston stroke and be thereby caused to engage the packing element.

1,346,653. CLOSURE FOR JARS, BOTTLES, AND OTHER RECEPTACLES. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 5, 1917. Serial No. 194,838. 5 Claims. (Cl. 215—81.)



1. A closure for a receptacle comprising a cap having an annular depending flange or skirt portion to encompass the upper exterior walls of the receptacle, and a gasket within said flange or skirt portion, said skirt portion initially having a downwardly and outwardly

diverging annular wall, a wall converging downwardly and inwardly from the outer edges of said first mentioned wall and a flange extending downwardly from the inner edge of said second wall, and said gasket being adapted on one face to engage the exterior wall of the receptacle and, initially, at its outer face said walls at their adjacent angular portions and lower flange, and said walls being adapted to be squeezed toward each other for forcing said gasket therefrom and against the plain exterior wall of the receptacle.

1,346,654. CLOSURE FOR JARS, BOTTLES, AND OTHER RECEPTACLES. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 12, 1917. Serial No. 196,169. 5 Claims. (Cl. 215—81.)



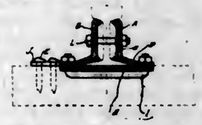
1. In combination with a receptacle having plain exterior surfaces, a side seal closure of the character described therefor comprising a cap adapted to seat on the top of the receptacle and having a depending flange or skirt portion adapted to encompass the exterior surfaces of the receptacle at the upper end thereof and formed with an upper plain section adapted to closely engage said exterior surfaces and a lower beaded section set outwardly from the surface of the receptacle and open at its lower end and comprising a lower vertical section and a top which extends outwardly in a lateral direction from the said upper plain section of the flange, and a gasket in said beaded section, said beaded section and gasket being adapted to be vertically elongated in a downwardly direction by pressure applied against the upper edge of said beaded section to press said section and said gasket downwardly and also inwardly toward the receptacle and bind said gasket against the outer plain walls of the receptacle.

1,346,655. FASTENING OR SECURING DEVICE. ALEXANDER HUGH JENKINS, Birmingham, England, assignor to J. B. Brooks and Company Limited, Birmingham, England. Filed Oct. 16, 1919. Serial No. 331,204 2 Claims. (Cl. 70—5.)



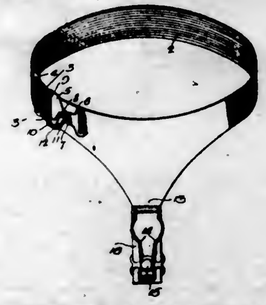
1. A fastening or securing device comprising a link member adapted to be attached at one end to one of the members to be secured; a staple secured to said link, means for adjusting the length of said link, a lever member eccentrically pivoted to the link member so as to turn in a plane parallel to that of the latter; and a lock combined with and forming an integral part of the lever member and adapted to coöperate with the staple carried by said link member to secure the latter to the link member after the parts have been drawn together.

1,346,656. RAIL-JOINT. SLONE A. JONES, Springville, Ala. Filed Feb. 16, 1920. Serial No. 359,194. 3 Claims. (Cl. 238—195.)



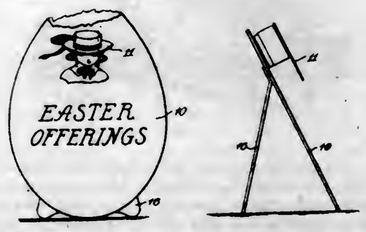
1. A joint for rails comprising two joint members, one joint member comprising a splice bar for one side of the rails having a transverse integral base extension adapted to underlie and support the joint between the rails, and the other joint member comprising a splice bar section having a base flange adapted to overlie the free end of said transverse joint support, and transverse U-bolts connecting the two joint members on each side of the rail joint and adapted to brace said joint support, substantially as described.

1,346,657. GARTER-FASTENING. JOHN I. KELLEY, Philadelphia, Pa. Filed Mar. 1, 1920. Serial No. 362,498. 2 Claims. (Cl. 24—224.)



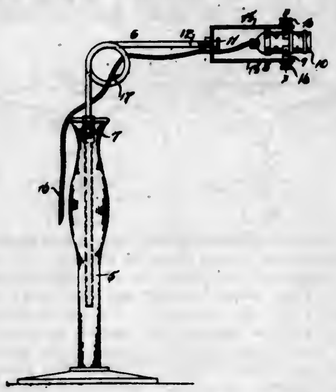
1. The combination in a fastener, of two sections, one section having a headed pin, the other section having a narrow longitudinal slot at the center; an enlarged slot for the passage of the head of the pin of the other section, said slot being at one side and back of the longitudinal slot; and a diagonal narrow slot connecting the large slot with the rear end of the narrow longitudinal central slot.

1,346,658. ADVERTISING SPECIALTY. CHARLES KOLIN, Rochelle, Ill. Filed Sept. 20, 1919. Serial No. 325,121 4 Claims. (Cl. 40—126.)



1. In a display medium, a representation of a broken egg shell and means attached thereto for supporting a representation of an article to be displayed wherein the impression will be created that the article has come out of the egg shell.

1,346,659. ADJUSTABLE LAMP-SUPPORT. MAX KOSSMANN, Brooklyn, N. Y. Filed Dec. 27, 1919. Serial No. 347,868. 1 Claim. (240—81.)



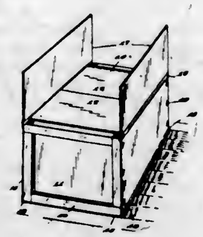
In combination, a standard, a rod rotatably supported by said standard, a set screw carried by the standard to contact with said rod to bind same in adjusted positions, said rod being bent to form a loop intermediate its ends, a bracket carried by the free end of the rod, a binding screw passing through one end of said bracket and engag- in gthe free end of said arm, whereby said bracket can be firmly secured in adjusted position, and a clamp pivotally supported by said bracket to engage an electric light bulb.

1,346,660. BUTTON. EDGAR C. LAKEY, Providence, R. I., assignor to B. A. Ballou & Co. Inc., Providence, R. I., a Corporation of Rhode Island. Filed Apr. 10, 1920. Serial No. 372,834. 3 Claims. (Cl. 24—97.)



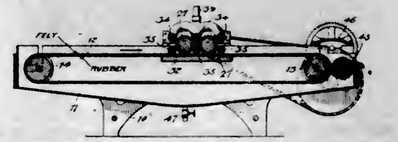
1. In a button, a front-plate, a back-plate secured to said front-plate and provided with a central opening through it, a loop member formed of sheet stock and having its middle portion bent outwardly into loop form with said loop portion extending through said back-plate opening, the ends of said loop extending laterally beneath said plate providing anchors for said loop.

1,346,661. PACKING-BOX. ROBERT LLOYD LEMON, Indianapolis, Ind., assignor to The Van Camp Packing Co., Indianapolis, Ind., a Corporation of Indiana. Filed July 7, 1919. Serial No. 309,162. 2 Claims. Cl. 217—2.)



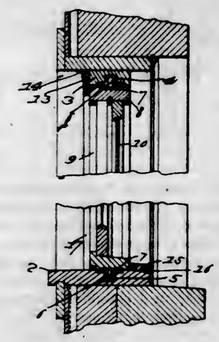
1. A package comprising two wooden end frames, a fiber-board sheet attached to the inner face of each frame and having a length sufficient to form a cover flap, and a main fiber-board sheet wrapped around and fastened to the two wooden frames to form the bottom, two sides, and cover flaps, substantially as described.

1,346,662. PHOTOGRAPH-CLEANING DEVICE. ALFA LOMAX, Atlanta, Ga. Filed Dec. 11, 1919. Serial No. 344,005. 5 Claims. (Cl. 95—89.)



1. In apparatus of the class described, the combination with an approximately horizontal traveling belt adapted to advance photographic prints laid thereon, of a soft print mop arranged above the belt to press gently upon prints passing upon the latter, and means for discharging water continuously upon the prints being acted upon.

1,346,663. REVOLVING WINDOW-FRAME. ALICE P. MCCLAIR, Atlanta, Ga. Filed Mar. 14, 1919. Serial No. 282,606. 1 Claim. (Cl. 20—48.)

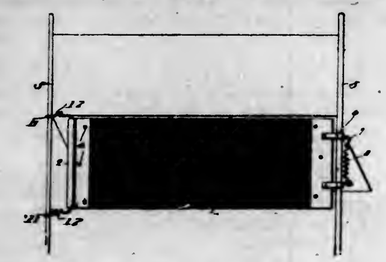


A revolving window frame comprising a main frame, a supplemental frame support on vertical pivots for turning movements in the main frame, a plate swingingly mounted at the top of the main frame and gravity actuated to lie against the window face of the supplemental frame at the upper end thereof whereby it may swing out of the way of the supplemental frame on the turning of the latter, a second plate hingedly attached to the main frame at the bottom thereof and lying normally horizontal to have its free edge engage the supplemental frame at the bottom thereof whereby turning movement of the supplemental frame is precluded except on raising the said plate to swing outwardly and upwardly from the main frame, and lateral movable plates mounted on the supplemental frame and engageable with side slots in the main frame, in the manner and for the purpose specified.

1,346,664. SCREEN FOR WINDSHIELDS. FRANK MCMAHON and ROGER A. HOUSTON, South Charleston, Ohio. Filed Aug. 22, 1919. Serial No. 319,264. 2 Claims. (Cl. 296—95.)

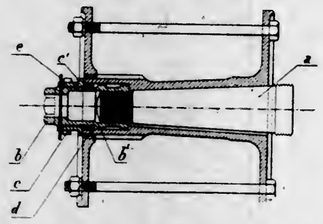
1. A device of the character specified comprising a strip of flexible material, a substantially U-shaped connector at one end of the strip and comprising a body portion connected with the end of the strip and arms extending laterally from the body and having hooks for engaging the windshield brackets, the arms having coils in-

terposed therein to provide resiliency, and hooks at the other end of the strip engaging the windshield bracket at



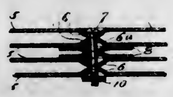
the other side, and resilient means for normally forcing said hooks toward each other to cause them to frictionally engage the bracket.

1,346,665. MEANS FOR FITTING UP SCREW-PROPELLER HUBS UPON THEIR SHAFTS. AUGUSTE MAIRE, Argenteuil, France, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville, Paris, France. Filed Jan. 2, 1919. Serial No. 269,385. 2 Claims. (Cl. 29—85.)



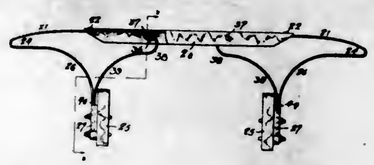
1. Means for fitting up screw propellers upon their shafts comprising in combination a conical shaft and terminated by a screw threaded cylindrical part, a hub with a conical bore slipped over the end of the conical shaft, a cylindrical bore formed in the hub following the small base of the conical bore and having a larger diameter than this base so as to form a shoulder between the two bores, a tapping in the cylindrical bore by the side of its outer opening, a nut capable of engaging freely the cylindrical bore of the hub and screwed upon the threaded end of the shaft so as to abut against the inner shoulder of the hub, a collar formed upon the front part of the nut, a lock nut having a bore of sufficient diameter to slip freely over the nut, an outer screw thread formed on the front end of this lock nut, this thread being arranged to enter the tapped bore of the hub and having a pitch reversed to that of the tapped nut, a flange or abutment formed on the lock nut in such a manner as to leave always a certain amount of play between the front end of the lock nut—even when screwed home—and the rear of the nut collar and means for pinning together the nut and the lock nut after they are screwed up, substantially as described and for the purpose set forth.

1,346,666. BAFFLE-PLATE DEVICE FOR ELECTRIC FIRELESS COOKERS. MORTON MURPHY, Marion, Ind. Filed Feb. 26, 1920. Serial No. 361,592. 3 Claims. (Cl. 126—275.)



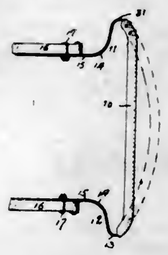
1. In a device of the class described, the combination of a series of disks arranged in pairs, and the disks in each pair provided with projections extending toward each other in engagement, spacing the disks of the pairs apart, means interposed between the inner disks of the pairs and spacing the pairs of disks apart, and means fastening all of the disks in an assembled position.

1,346,667. BUMPER. RICHARD T. NEWTON, New York, N. Y. Filed Oct. 26, 1918. Serial No. 259,802. 8 Claims. (Cl. 293—55.)



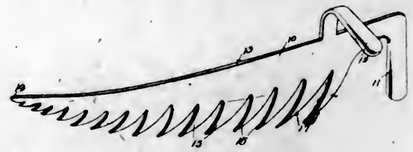
7. An automobile bumper comprising a mid-impact area, and opposite end impact areas in extension of the mid-impact area, said end impact areas comprising resilient flat metal strap means recurved and secured at their inner ends to the side members of the automobile chassis, said recurved area being bowed toward the impact area, together with a yielding mid-uppport for the impact area of the bumper, said mid-support comprising independent members engaging the impact element at points spaced between the end areas and the center of the mid-area, and means rigid with the automobile engaged by said mid-support and taking the thrust thereof, for the purpose described.

1,346,668. BUMPER. RICHARD T. NEWTON, New York, N. Y. Filed Feb. 24, 1919. Serial No. 278,817. 5 Claims. (Cl. 293—55.)



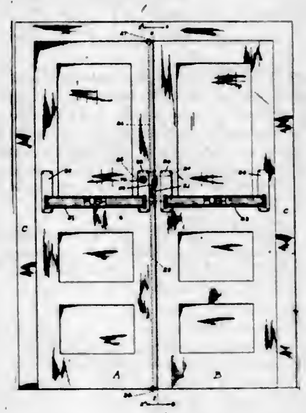
2. In an automobile bumper, an impact member of channel section with curved ends, and a spring supporting strap having a curved outer end fitting within said curved end of the channel and secured thereto.

1,346,669. KNIFE. HENRI OERTLI, Dale, Tex. Filed Oct. 10, 1916. Serial No. 124,883. 1 Claim. (Cl. 30—8.)



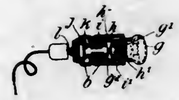
An improved food knife comprising a tapering blade-like body having a concaved upper edge and a convex lower edge, said upper edge at its widest portion being formed with an integral extension bent downwardly and laterally at right angles and having a reduced portion with a depending handle in alinement with the body, the convex edge of the body being provided with spaced teeth formed with concaved forward edges and convexed rear edges with corresponding intervening V-shaped notches having corresponding curved side portions, said teeth being pointed and graduating in length from the wider to the narrower portion thereof, the teeth at the wider portion adjacent to the laterally extending handle being longer than those at the tapered end and conforming at the said wide end to the rear extension of the body, said teeth providing cutting action in opposite directions.

1,346,670. PANIC-BOLT MECHANISM. ALBERT A. PAGE, East Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 8, 1916. Serial No. 89,980. 21 Claims. (Cl. 70—46.)



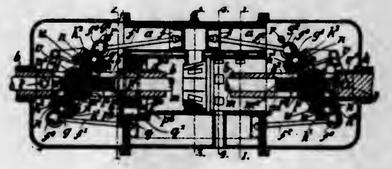
5. In a lock, a bolt member, means for retracting said bolt member, a dogging member for said bolt member, a spring urging said dogging member into a dogging position with respect to said bolt member, and key mechanism for moving said dogging member in the opposite direction and into another dogging position with respect to said bolt member; substantially as described.

1,346,671. ELECTRIC-INCANDESCENT-LIGHTING APPARATUS. MARC-ANTOINE PATTAY and EUGÈNE JAQUEMOT, Geneva, Switzerland, assignors to Charles von der Weid, Geneva, Switzerland. Filed Sept. 4, 1919. No. 321,605. 2 Claims. (Cl. 240—44.)



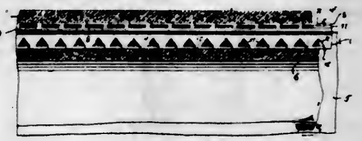
2. An electric lighting device comprising a holder having a lamp socket at one end and a lens at the other end, a lamp fitting consisting of a cap, a sleeve having a screw threaded body portion adapted to be turned into the said cap, and a flaring slotted portion adapted to receive a screw stud of a lamp bulb, and a collar adapted at one end to be received on a portion of the said cap and abut against a shoulder provided therefor on the said cap, the said collar being provided at its opposite end with an internal flange adapted to bear against the flaring portion of the sleeve so that when the sleeve is turned into the cap the flaring portions of the sleeve will be engaged by the internal flange on the collar to cause the flaring portions of the sleeve to engage the screw stud of a lamp bulb to hold the same in position, the said clamp fitting being adapted to be received within the socket member of the said holder.

1,346,672. INTERNAL-COMBUSTION ENGINE. ALEXANDER MARCUS PATTON, Belfast, Ireland, assignor to Charles Hurst Limited, Belfast, Ireland. Filed Apr. 18, 1918. Serial No. 229,409. 6 Claims. (Cl. 74—14.)



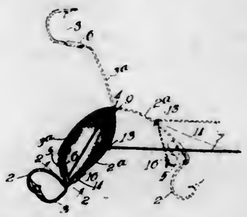
1. A multi-cylinder engine of the type described having a shaft, angularly movable and rotatable thrust rings, a carrier therefor, a driving sleeve slidably secured on the shaft, means pivotally securing the carrier to the sleeve, a non-rotatable stroke plate freely located between the thrust rings and means for oscillating the stroke plate.

1,346,673. REINFORCED CONCRETE CONSTRUCTION. EARL L. PETERSON, Corona, N. Y., assignor to United Concrete Pipe Company, New York, N. Y., a Corporation of New York. Filed Jan. 6, 1920. Serial No. 349,676. 7 Claims. (Cl. 72—53.)



1. A reinforced concrete conduit comprising an imperforate metal pipe embedded in concrete, and longitudinally extending ribs mechanically attached directly thereto and serving to anchor thereto the concrete in which the metal pipe is embedded.

1,346,674. FISH-BAIT. GEORGE E. PICKUP, Newark, Ohio, assignor of one-half to Fred Harlow and one-half to John Steinbaugh, Newark, Ohio. Filed Jan. 28, 1918. Serial No. 214,114. 10 Claims. (Cl. 43—37.)

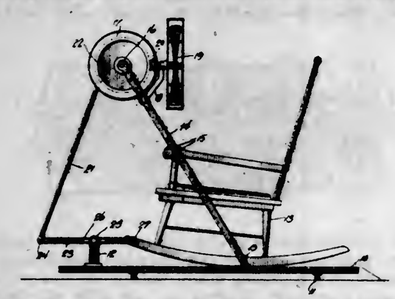


1. In combination with a line, a fish bait including a body, a pair of hooks mounted on opposite sides of the body and normally tending to swing outwardly therefrom, a latch for releasably locking said hooks together operatively connected to said line and including a spring member fixed on one of said hooks and adapted to be released by the relative movement of the bait and line, and means for guiding the line in its movements with reference to the body whereby a direct pull is exerted on the latch in any position of the body.

1,346,675. ROCKING-CHAIR ATTACHMENT. PHILIP PIETROBONO, East Hartford, Conn. Filed Oct. 8, 1919. Serial No. 329,279. 1 Claim. (Cl. 230—7.)

The combination with a support equipped with a standard and having a rocking chair mounted thereon, of a

supporting rod rigidly fixed to and projecting above the chair, a beveled gear mounted upon the rod, a bevel pinion meshing therewith, a bracket fixed to the rod and support-



ing said pinion, a fan operable with the pinion, and a lever mounted upon the standard and connected with said bevel gear and said chair whereby movement is imparted to the bevel gear when the chair is set in motion.

1,346,676. CASH-CARRIER BOX. MARTIN A. POND, Bristol, Conn., assignor to Standard Carrier Company, Southington, Conn., a Statute Corporation of Connecticut. Filed Dec. 1, 1919. Serial No. 341,743. 8 Claims. (Cl. 186—32.)



1. A cash carrier box comprising a receptacle, a supplemental bottom secured to the bottom of the receptacle and providing a track guide at its edges, a fixed cable gripping member projecting below said supplemental bottom, a stud fixed in said supplemental bottom, an oscillatory cable gripping member pivotally mounted on said stud and projecting below said supplemental bottom, and a spring in said supplemental bottom and engaging the oscillatory cable gripping member.

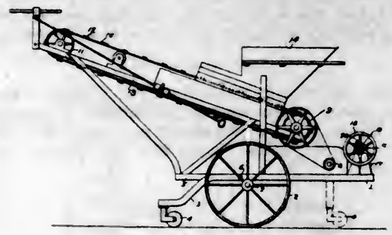
1,346,677. SASH-LOCK. HERMAN P. PORTER, Jacksonville, Fla. Filed Dec. 2, 1919. Serial No. 341,905. 5 Claims. (Cl. 292—251.)



1. The combination with meeting sash-rails, one of said sash rails having two sizes of openings formed therein, of a tubular casing fitted within the larger opening, a slotted casing fitted within the smaller opening, a locking bolt revolubly mounted in said openings, a slotted washer embracing said bolt, and a spring surrounding the bolt with one end in contact with the washer and its other end in contact with said slotted casing.

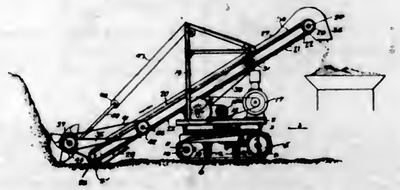
1,346,678. BOX-CAR LOADER. HOWELL D. PRATT, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 10, 1918. Serial No. 227,705. 3 Claims. (Cl. 193—19.)

1. The combination in a box car loader, of a carriage; a tiltable frame of substantially triangular form mounted on the carriage and having its long side presented upwardly, and having a part extending rearwardly from the base of the triangle, said rear extension being pivotally connected to the carriage; an endless conveyer mounted on said frame substantially parallel with the long side



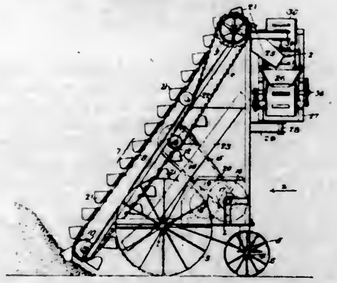
thereof; means on the frame for operating said conveyer; and a hopper carried by said frame above the receiving end of the conveyer, said loader adapted for operation in a car box with a portion of its hopper projecting through a door opening thereof so that material may be delivered directly into the hopper from outside the car.

1,346,679. WAGON-LOADER. HOWELL D. PRATT, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed June 12, 1918. Serial No. 239,521. 4 Claims. (Cl. 37—29.)



4. The combination of a platform pivotally mounted on a carriage; an endless belt conveyer supported by the platform and having flat spring plates at the lower end which are arranged to support the end of the elevator on the material; and means for feeding the elevator so that the material will be carried up the elevator and discharged from the upper end thereof.

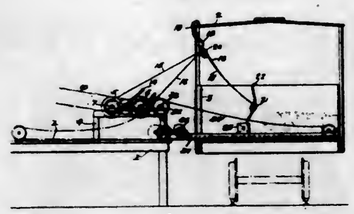
1,346,680. BOX-CAR LOADER. HOWELL D. PRATT, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed June 12, 1918. Serial No. 239,522. 2 Claims. (Cl. 193—6.)



1. In a car loader, the combination of a readily portable frame having a horizontal relatively short wheel base and a vertical portion of substantial height; a bucket elevator mounted at an incline on one side of the frame, said frame

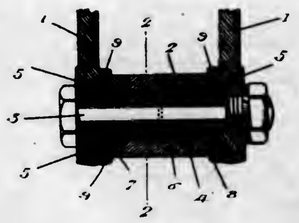
having a lateral extension from the opposite side at a point intermediate of its top and bottom; a motor for driving the elevator; a pivoted belt conveyer having a frame pivotally mounted at one end of said lateral extension so that the conveyer is capable of swinging about its pivot either to the right or left of the loader, said conveyer adapted to receive material from the bucket elevator; and an independent motor for driving the belt conveyer so that the speed thereof can be varied to cause material to be discharged at different distances from the loader.

1,346,681. CAR-UNLOADER. HOWELL D. PRATT, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed June 14, 1919. Serial No. 304,210. 3 Claims. (Cl. 214—44.)



1. The combination in a car unloader, of a cable; sheaves suspended in the upper portion of the car-door opening around which the opposite ends of the cable pass; a readily detachable sheave at each end of the car body around which the cable passes; oppositely operating scoops carried by the cable, the portion of said cable between said end sheaves being unsupported and resting on the material and serving as a drag conveyer therefor; mechanism for imparting positive movement alternately to opposite portions of the cable; and means for reversing the driving mechanism whereby material is advanced alternately from each end of the car toward the center thereof.

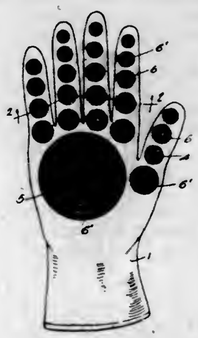
1,346,682. SPRING-EYE PROTECTOR FOR AUTOMOBILES. HARRY K. REINOEHL, Defiance, Ohio. Filed Dec. 10, 1919. Serial No. 343,729. 5 Claims. (Cl. 64—24.)



2. A lubrication protector element for spring-eye bearings comprising a cylindrical portion having a cupped end, said cylindrical portion being adapted to be slipped longitudinally into said spring-eye from one end, while the cupped end lies beyond the spring-eye.

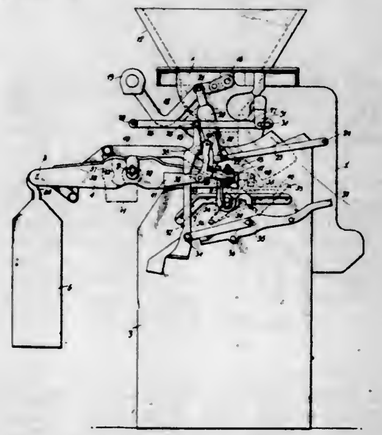
1,346,683. HAND-COVERING. JOSEPH N. REYNOLDS, Atlantic, Iowa. Filed Oct. 14, 1919. Serial No. 330,542. 1 Claim. (Cl. 2—79.)

A hand covering comprising a textile body, and a rubber membrane vulcanized upon the outer surface only of the body, said membrane having a plurality of closely-arranged definite projections forming a roughened gripping surface approximately coextensive with the palm and



finger portions of the textile body, the area uncovered by the projections being slight relative to the area covered by them.

1,346,684. AUTOMATIC COMPENSATOR FOR WEIGHING-MACHINES. HENRY RICHARDSON, Passaic, N. J. Filed Dec. 15, 1917. Serial No. 207,314. 20 Claims. (Cl. 249—1.)

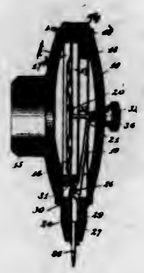


19. In a weighing machine of the type having a weigh hopper, a feed gate for controlling the flow of material to the weigh hopper, a mechanical means for controlling the closing of said gate during movement of the weigh hopper toward equipoise position, and a member operative by such movement of the weigh hopper to mechanically actuate said gate controlling means, said member being adjustable to vary the range of movement of the weigh hopper before said member causes actuation of said gate controlling means.

1,346,685. SOUND-BOX FOR PHONOGRAPHS. AGOSTINO ROGATI and LOUIS ARONNE, New York, N. Y. Filed Apr. 26, 1919. Serial No. 292,803. 1 Claim. (Cl. 274—35.)

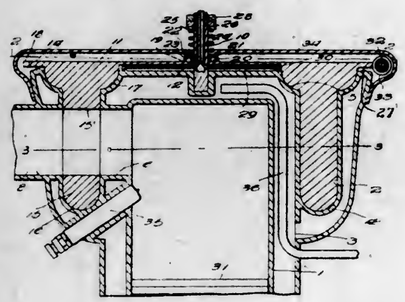
The herein described sound box for talking machines comprising front and rear spaced walls, a rim embracing the peripheries of the disks and serving to hold them in fixed spaced relation to each other, a diaphragm within the space between the walls, cushioning devices gripping the periphery of the diaphragm to hold it in position, a

stylus bar connected with the diaphragm and pivoted within the space between the walls, and a supporting arch



between the diaphragm securing means and the stylus bar to prevent interference between the diaphragm supporting devices and the stylus bar.

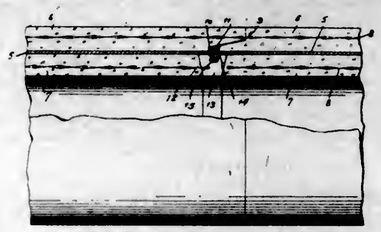
1,346,686. ROTARY VALVE FOR INTERNAL-COMBUSTION ENGINES. CONRAD L. SCHWANKE, Cornelius, Oreg. Filed Feb. 3, 1919. Serial No. 274,650. 1 Claim. (Cl. 123—80.)



In an engine, a cylinder formed with a closed top, a water jacket entirely about the sides and top of said cylinder, the cylinder being formed with intake and exhaust passages extending through said jacket contiguous to the top of the cylinder, an annular valve casing formed in the jacket concentrically of the cylinder, spaced from the walls of the latter and said jacket, intersected by the passages, and opening through the upper end of the jacket, an annular valve rotatably seated in the valve casing for controlling the passages, and removable therefrom, a gear toothed peripheral edge formed on said valve, a cover fitted over the upper open end of the valve casing, a driven worm gear journaled in said cover and meshing with the gear toothed peripheral edge of the valve, a pivot stem fixed centrally of the water jacket and having the valve revolubly connected therewith and means carried by the stem and co-acting with the connection for regulating the seating engagement of the valve in the valve casing.

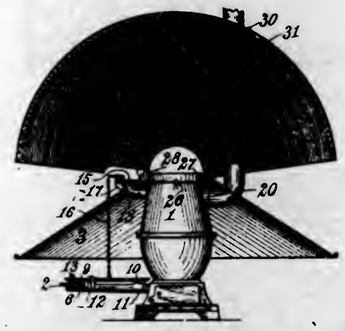
1,346,687. REINFORCED-CONCRETE CONDUIT. GLENN MASON SCOFIELD, San Diego, Calif., assignor to United Concrete Pipe Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 10, 1919. Serial No. 343,727. 7 Claims. (Cl. 72—51.)

1. A reinforced concrete conduit comprising metal pipe lengths embedded in concrete sections, and welded expansion joints between adjacent pipe lengths to render the



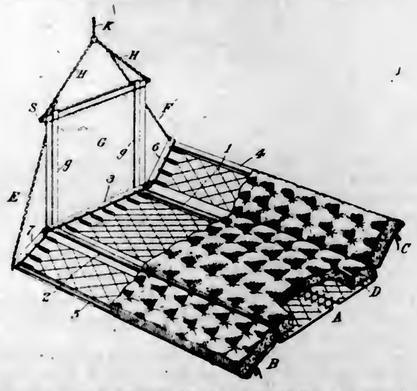
latter continuous and free from leakage at the joint between adjacent conduit sections.

1,346,688. BROODER. ANDREW F. SHULER, Arcanum, Ohio. Filed Feb. 10, 1920. Serial No. 357,532. 4 Claims. (Cl. 237—3.)



3. A brooder heater comprising an upright stove, having a draft opening in the base thereof and a check draft opening in the top thereof, and an outlet in the top thereof for the outlet of the products of combustion, baffle walls arranged adjacent to the check draft opening and the opening for the outlet of the products of combustion to deflect the air entering the check draft opening, and a thermostat adapted to control both draft and check draft openings.

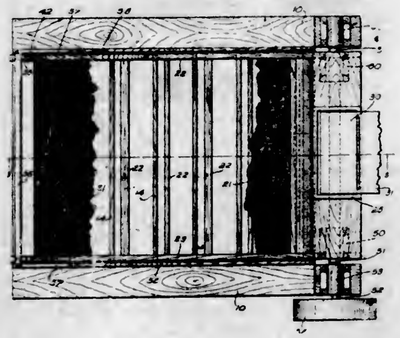
1,346,689. COUCH-HAMMOCK. GEORGE F. SISBOWER, East Orange, N. J., and LOUIS E. PITTONI, New York, N. Y., assignors to New York Couch Bed Company, New York, N. Y., a Corporation of New York. Filed Nov. 3, 1914. Serial No. 870,069. 2 Claims. (Cl. 5—61.)



1. A couch hammock frame comprising a pair of end angle-bars connected adjacent their ends by a pair of side

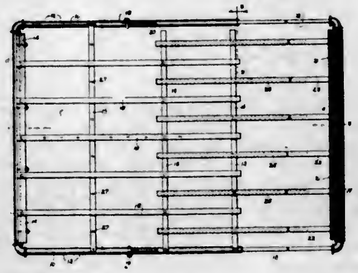
rods, a fabric stretched between the end bars, end walls for the frame each including a strip of flexible material substantially co-extensive with said end bars and having horizontal spreader-bars secured to the upper and lower edges thereof, reinforcing strips at the vertical edges of said walls and having their ends bent around the upper and lower edges of said walls and embracing said spreader bars, the lower edge portion of each wall being shaped to correspond to said end angle bars, securing elements extending through said side rods, end bars and lower spreader bars for connecting all of said parts together, and means connected to the upper spreader bars for suspending the frame.

1,346,690. SCREENING OR FILTERING APPARATUS. HAROLD DONALD WELLS, Glens Falls, N. Y. Filed Sept. 18, 1919. Serial No. 324,429. 3 Claims. (Cl. 92—33.)



1. In an apparatus of the type described, a box provided with spaced transverse partitions, a screen extending into the said box and provided at the under side with spaced transverse partitions extending between the partitions of the said box, the said partitions on the box and screen forming suction and pressure compartments underneath the screen above the box partitions, and forming water sealing compartments in the box, and means imparting a rising and falling and a longitudinal oscillating motion to the said screen.

1,346,691. CHART-HOLDER. COURTLANDT W. BABCOCK, Stonington, Conn. Filed July 29, 1919. Serial No. 314,029. 4 Claims. (Cl. 40—155.)



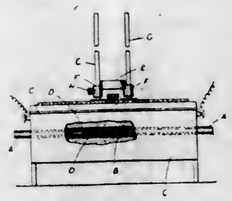
2. A chart and map supporting frame, comprising in combination; a frame unit comprising parallel frame bars fitted with tubular receivers, and another frame unit comprising parallel frame bars fitted with tubular inserts telescopically engaging within the tubular receivers of the first named frame unit, a compression spring inserted within the telescoping tube members to engage the inserted end of the tubular inserts, and adjusting pins provided within the tubular receivers of the first frame to engage the compression springs for facilitating the adjustment of the length of the frame, and a support curtain fixed to one end of the frame and passed over the other end of the frame, with means for hooking the free end of the curtain to the underneath side of one frame unit, and a chart applied to the support curtain with the ends thereof attached to the ends of the frame, and clamps engaging each end of the chart.

1,346,692. RESILIENT TIRE FOR VEHICLE-WHEELS. ANDRES BALAGUER, Marianao, Habana, Cuba. Filed May 6, 1919. Serial No. 295,231. 2 Claims. (Cl. 152—1.)



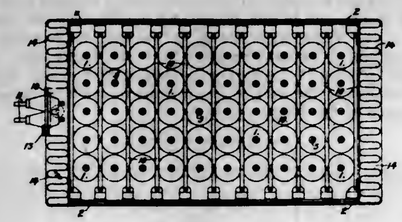
1. In a tire which in cross section presents a crescent tread, alternate layers of fabric and cushion material beneath said tread, a relatively heavy elliptical cushion beneath said layers, a crescent of fabric and cushion layers within the outer portion of said elliptic member, and a circular cushion within the inner portion of said elliptical member, the said crescent and circular cushion surrounded by circular layers of fabric.

1,346,693. MEANS FOR POSITIVELY INDICATING THE CONDITION OF STEEL DURING HEAT TREATMENT. CHARLES ORME BASTIAN, London, England. Filed May 10, 1920. Serial No. 380,382. 3 Claims. (Cl. 175—183.)



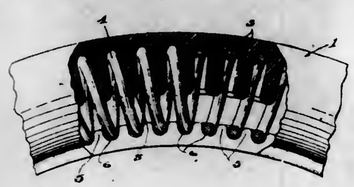
1. In apparatus for indicating the critical point of heated magnetic substances, the combination with a chamber for receiving magnetic material to be treated, a compass, and means for normally neutralizing the earth's magnetic effect on the compass, whereby magnetic material in the chamber is adapted to influence said compass until heated to the critical point and said compass is adapted to return to neutral position.

1,346,694. ELECTRICAL CONDENSER. ERNEST ARTHUR BAYLES and HAROLD HIGHAM, Helsby, England. Filed Feb. 23, 1915. Serial No. 10,074. 7 Claims. (Cl. 250—41.)



1. An electrical condenser consisting of a casing containing oil, a plurality of condenser bodies each composed of coiled or folded laminæ of paper and metal impregnated with oil and submerged in the oil in the casing substantially as set forth.

1,346,695. RESILIENT TIRE. EMORY J. BENEDICT and MOLLIE C. FROST, Memphis, Tenn. Filed June 3, 1919. Serial No. 301,383. 2 Claims. (Cl. 152—8.)



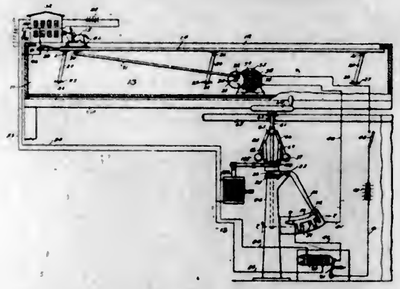
1. A resilient tire comprising a casing, a plurality of resilient ribs extending inwardly from the inner surface of the tread portion of said casing to substantially the center of the tire casing, said tire casing provided with beads along its free edges and having grooves arranged in radial alinement with the ribs formed inwardly of the beads, and an endless spiral spring formed from a cylindrical spring wire within said casing having its coils engaging between the adjacent ribs and within the adjacent grooves of the casing.

1,346,696. ROPE-LOCK FOR PULLEYS. ARTHUR J. BERGERON, New York, N. Y. Filed Oct. 2, 1919. Serial No. 328,000. 7 Claims. (Cl. 24—132.)



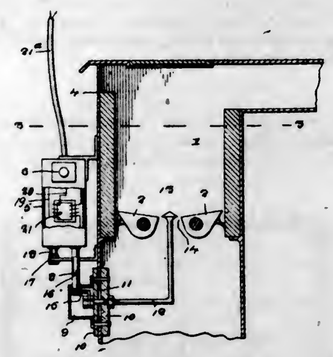
7. A rope lock comprising a supporting member, a pair of arms pivoted thereto in spaced relation, coöperating rope gripping jaws formed on said arms at their free extremities, means on one of said arms coöperating with the remaining arm to cause relative movement of the jaws toward and away from each other when the arms are raised or lowered, means for restricting the upward movement of the arms and a device pivotally mounted on the supporting member having a portion normally obstructing the operation of the restricting means, said device being adapted to be engaged by and lifted to an unobstructing position by the restricting means when the arms are lowered slowly.

1,346,697. RACE-GAME APPARATUS. RICHARD M. BRENNER, Palisade, N. J. Filed Dec. 10, 1919. Serial No. 343,759. 11 Claims. (Cl. 46—56.)



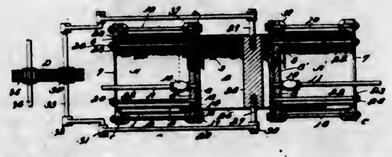
1. An amusement apparatus, comprising a racing table, a racing object adapted to travel on the said racing table, a motor connected with the said racing table to move the same forward and backward, and a motor controlling device adapted to be actuated by a player and connected with the said motor to govern the speed thereof and hence the forward and backward movement of the said racing table.

1,346,698. ELECTRICAL FIRE-LIGHTING ATTACHMENT FOR STOVES. TITO L. BRUNELLI, Clearfield, Pa. Filed Dec. 16, 1919. Serial No. 345,413. 3 Claims. (Cl. 175—115.)



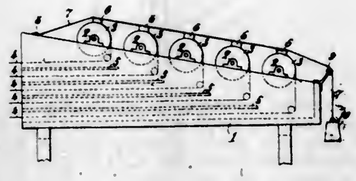
1. The combination of a stove, having a conductive wall, a grate therein in electrical connection with said wall, an electrode having a portion arranged in close proximity to portions of the grate and also having an arm extending outwardly through an opening in the stove wall, insulating means connected to said wall and receiving the arm of the electrode to support the latter, a casing connected to the said insulating means and receiving the outer end of the electrode, a cabinet fastened to the stove wall exteriorly thereof and having conduits one of which extends into the casing, conductive means connecting the other conduit and the stove wall, wires in said conduit, one of said wires being connected with said conductive means, a conductive connection arranged in the casing, and electrically connecting the other wire and the electrode, house wires extending into the cabinet and adapted to be connected with a source of alternating current supply, and a step-down transformer and spark intensifying means arranged in the cabinet and electrically connected with the last-named wires and the first-named wires; one of the last-named wires being also provided with a switch carried by the cabinet.

1,346,699. AIR-COMPRESSOR PUMP. GEORGE BURD and CHARLES BURD, Detroit, Mich. Filed Oct. 27, 1919. Serial No. 333,631. 4 Claims. (Cl. 230—6.)



1. In an air compressor of the character described, a cylinder comprising separate parallel inner and outer cylindrical walls arranged in separated relation, a separate cylinder head closing one end of the inner cylindrical wall, a clamping ring surrounding the inner end of the outer cylindrical wall and abutting against its inner end, a clamping ring embracing and abutting against the outer ends of both cylindrical walls, bolts connecting both the rings outside of the outer cylindrical wall and connecting the outer ring and the cylinder head and clamping the walls in their operative positions, and a hollow piston operative between said walls, for the purpose described.

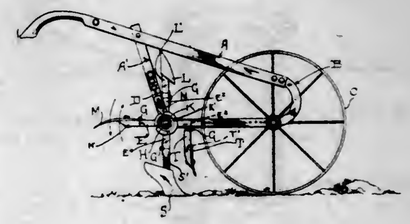
1,346,700. APPARATUS FOR PRODUCING DRIVING-BELTS. AXEL CARLSEN, Lyngby, near Copenhagen, Denmark. Filed Nov. 2, 1917. Serial No. 199,855. 2 Claims. (Cl. 242—75.)



1. In an apparatus of the character described, the combination with a trough, of a plurality of rollers mounted on the trough and upon each of which a material is adapted to be wound, and a brake common to all of the rollers, said brake comprising a flexible member extending above and over all of the rollers and having brake blocks on its inner face engaging the upper sides of the rollers, said flexible member having one end fixed and provided with a tension device at its other end.

1,346,701. PLOW. WILLARD F. COCHRAN, Blue Ridge, Ga. Filed July 16, 1919. Serial No. 311,252. 1 Claim. (Cl. 97—42.)

A garden plow comprising a frame, a shaft journaled therein, a member journaled upon said shaft and having radial arms, plows with shank portions hinged to the ends of said arms, a notched disk fixed to said shaft, and a



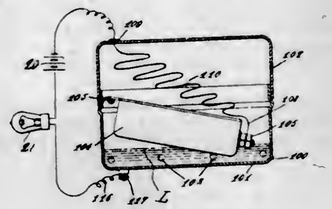
pawl mounted upon the frame adapted to engage one of said notches.

1,346,702. BRASSIÈRE-HOOK. GEORGE T. COLTER, New York, N. Y. Filed Oct. 10, 1919. Serial No. 329,715. 2 Claims. (Cl. 24—245.)



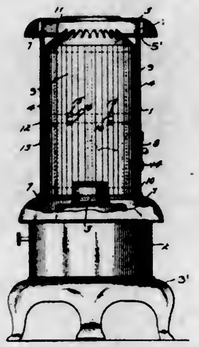
2. A brassière hook comprising a body formed with means for receiving a tape, an opening for receiving the stud of a corset clasp, and an extension projecting from said body in the same plane, said projection having on each side thereof a resilient arm spaced from the extension and substantially conforming to the shape of the edge of the extension so as to provide restricted slots for receiving corset lacing.

1,346,703. SIGNAL-OPERATING MEANS. JESSE TEMPLE CURTIS, Sebring, Ohio, assignor of one-third to Francis Lynn McClure and one-third to Franklin Fritt Le Fevre, Sebring, Ohio. Filed Mar. 16, 1918. Serial No. 222,900. 1 Claim. (Cl. 200—84.)



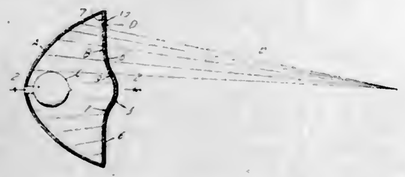
In a device of the class described, a float; means for hingedly mounting the float for vertical swinging movement about a fixed horizontal axis; a circuit closure embodying a contact member and a swinging arm, both located within the float; and means for pivotally connecting one end of the arm to the float to enable the arm to swing laterally in the same plane with the float and with said axis.

1,346,704. HEATER. HENRY FICKERSEN, Brooklyn, N. Y. Filed Nov. 18, 1919. Serial No. 338,848. 4 Claims. (Cl. 126—96.)



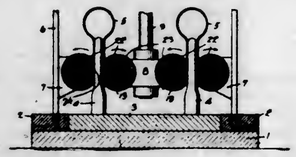
1. The combination with a heater, of a removable lining in the heater conforming in shape to the shape of the casing of the heater and composed of heat insulating material, a metal frame secured to the lining, and a conical deflecting ring forming the upper end of the frame.

1,346,705. HEADLIGHT-LENS. ADELBERT R. GIBSON, Chicago, Ill., assignor, by mesne assignments, to Essentials Mfg. Company, a Corporation of Illinois. Filed Jan. 4, 1919. Serial No. 269,638. 2 Claims. (Cl. 240—48.4.)



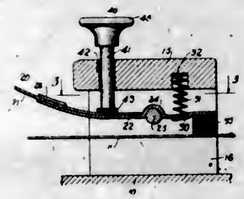
1. A lens, comprising a transparent body having a vertically fluted surface substantially entirely covering a face thereof, and a face thereof having clear and translucent parts, the translucent part surrounding the clear part and the clear part comprising that part of the face which is bounded below by a line substantially horizontal and chordal and near the center of the lens and bounded on opposite sides by lines which have a general convergency from near the outer ends of the chordal boundary to a point near the top center of the lens; the transparent body having a central dished part and said lower chordal boundary having a substantially central semi-circular upward projection into the dished part, so that the whole center portion of the dished part is translucent.

1,346,706. MACHINE FOR FORMING ROLLS ON TOY BALLOONS. HARRY R. GILL, Ashland, Ohio. Filed Aug. 26, 1919. Serial No. 320,018. 3 Claims. (Cl. 18—2.)



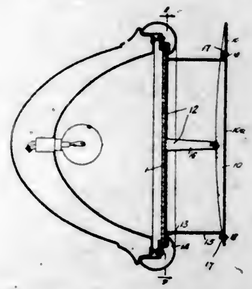
1. A machine of the character described, comprising a support, a form on the support adapted to receive a toy balloon thereon, a brush located at right angles to the form and adapted to be turned so that the bristles of the brush operate to roll a bead on the end of the toy balloon, and a flexible cover on the brush.

1,346,707. PLAYING DEVICE FOR STRINGED MUSICAL INSTRUMENTS. CHARLES HABERMAN, North Bergen, N. J., assignor to Oscar Schmidt, Inc., Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 21, 1919. Serial No. 318,920. 5 Claims. (Cl. 84—324.)



1. The combination with a stringed musical instrument of a support extending across a series of strings, a pivot rod held on the said support above the said strings, and strikers mounted to swing on the said rod and arranged in striking relation to the said strings, each striker having a flexible member and a pivot member on which the flexible member is secured, the pivot member having a struck up half round bearing seated on the pivot rod, the pivot members of the several strikers being wider than the flexible members and having abutting side edges to hold the strikers in striking relation with their strings.

1,346,708. HEADLIGHT-DIMMER. PAUL P. HEIN, New York, N. Y. Filed June 26, 1918. Serial No. 242,025. 1 Claim. (Cl. 240—48.4.)



In a dimmer for headlights, the combination of a translucent glare reducing shield in the form of a segment of a circular disk, and means extending forward from the lamp casing serving to hold the shield in front of and in spaced relation to the front portion of the casing, the rear surface of the shield being of a reflecting nature whereby a certain portion of the light will be dispersed laterally and therefrom between the shield and the lamp casing said shield lying essentially in a plane parallel to the front edge of the lamp casing but having a side portion curved rearward toward and yet spaced from the lamp casing.

1,346,709. SHOE-HEEL. ELLIS S. HELWITZ, Brooklyn, N. Y. Filed Aug. 20, 1917. Serial No. 187,110. Renewed Nov. 12, 1919. Serial No. 337,623. 4 Claims. (Cl. 36—36.)

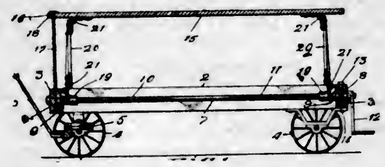
1. A rubber heel pad with a bottom portion and upstanding elastic walls for the purpose specified, and a fabric inset in said parts to increase the strength thereof, the fabric extending up with the elastic walls, and such upwardly extending part of the fabric being slitted to prevent interference with the elasticity of the walls.

4. The herein described resilient pad for shoe heels, the same comprising a resilient base adapted to be applied directly against and conform in size to the bottom surface of the shoe heel, means to secure the pad to the heel,



and a bead formed on the bottom surface of the pad in position to lie exactly below the periphery of the heel to which the pad is attached in practice, the base of the pad being extended laterally of said bead and the heel.

1,346,710. ELEVATING-TRUCK. CHAUNCEY M. HENDERSHOTT, Hornell, N. Y. Filed Sept. 15, 1919. Serial No. 323,771. 3 Claims. (Cl. 254—7.)



1. A truck of the character stated, comprising a wheeled frame, a rod supported longitudinally in the frame and having right and left screwthreads thereon, sleeves on the threaded portions of the rod, a platform, and risers hingedly connected to the platform and sleeves, and having their lower edges projecting across and supported on the frame when the platform is elevated.

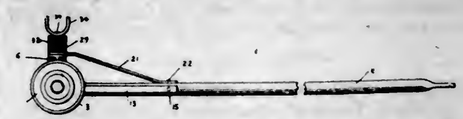
1,346,711. PENCIL. WILLIAM K. HOLMES, Brooklyn, N. Y. Filed May 7, 1919. Serial No. 295,416. 11 Claims. (Cl. 120—18.)



1. In a pencil, the combination with a barrel and a shell entirely contained and freely rotatable therein, of means operated by the relative rotation of the barrel and shell to project lead from the tip of the pencil, and a member slidably insertible within the shell but projecting without and engaging the other end of the barrel for rotating the shell with respect to the barrel.

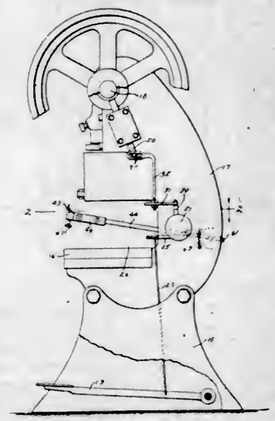
1,346,712. TOWING-DOLLY FOR VEHICLES. LARNED T. KIMMERLE and DANIEL S. KIMMERLE, San Francisco, Calif. Filed Feb. 5, 1919. Serial No. 275,108. 3 Claims. (Cl. 280—61.)

1. In a dolly for lifting and towing vehicles, two supporting wheels and an axle engaging one of said wheels on each end thereof, an I beam pivoted centrally to said axle, two yokes, one being swiveled on each end of said



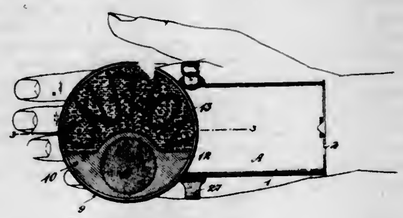
I beam, the axis of the swivels and the pivot lying in the same plane, and a tongue rigid with said axle.

1,346,713. SAFETY-GUARD FOR PUNCH-PRESSES. AUGUST KOETTING, Brooklyn, N. Y. Filed Oct. 1, 1919. Serial No. 327,731. 3 Claims. (Cl. 74—46.)



1. In a safety appliance for punch presses or the like, the combination with a treadle and means set into action by the depression of the treadle to initiate the action of the press, of a fender movable from idle into guarding position, and connections between the treadle and the fender to cause movement of the latter into guarding position during the first portion of the movement of the treadle and prior to initiation of the movement of the press, said connections comprising a rock shaft, a pair of arms fixed to the rock shaft and extending forward parallel to each other and thence deflected laterally to each other, and clamping means between the forward ends of the arms and the fender.

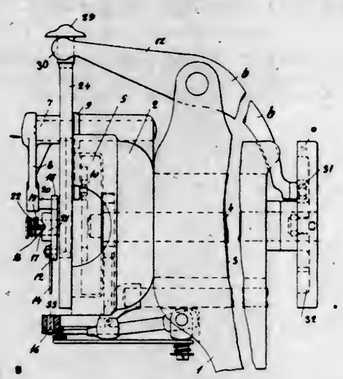
1,346,714. AUTOMOBILIST'S CAUTION-SIGNAL. WESLEY W. KUHLMANN, Woodcliff-on-Hudson, N. J. Filed Oct. 26, 1917. Serial No. 198,662. 9 Claims. (Cl. 40—132.)



1. An automobilist's hand signal comprising a casing having an open portion of such size as to substantially cover the greater part of the fingers of the hand, a device adapted to be illuminated and reversibly mounted on the open portion of the casing, a source of current in the

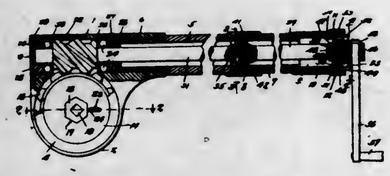
casing, a lamp in circuit with the said source, a switch for closing the lamp circuit, and means for fastening the casing to the back of the hand, said reversible device including a translucent plate bearing signal words and colors which are illuminated simultaneously.

1,346,715. PEGGING-MACHINE. JULIUS LARSEN, Copenhagen, Denmark. Filed Feb. 9, 1917. Serial No. 147,585. 5 Claims. (Cl. 1—23.)



1. In a pegging machine, a reciprocating plunger, a head loosely pivoted to the plunger and carrying an awl and a hammer, power means for turning the head to bring the awl and hammer alternately into vertical position and automatic means for locking and releasing the head, said means being disengaged by the turning of the head and engaged when the turning of the head ceases.

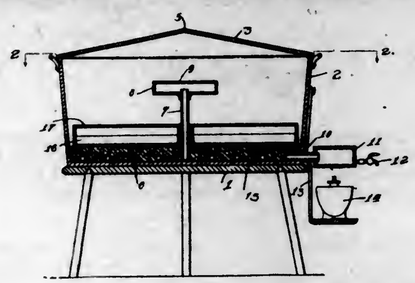
1,346,716. WRENCH. RALPH LEE, Medicine Bow, Wyo. Filed Jan. 30, 1920. Serial No. 355,019. 3 Claims. (Cl. 81—57.)



2. In a wrench, a shaft comprising sections, one of which is provided with a socket, the other of which is provided with a tip received in the socket; a dog slidable transversely in the socket and coöperating with the tip; a spring strip attached at one end to the socket and attached at the other end to the dog, the strip constituting means for retracting the dog; a ring slidable on the socket and inclosing the strip, the ring coacting with the strip to advance the dog for engagement with the tip; a support wherein the shaft is journaled, the support having a side extension; a worm wheel journaled in the extension and provided with means for engaging an object to be rotated; and a worm on one of the shaft sections, the worm coöperating with the worm wheel.

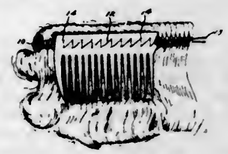
1,346,717. INCUBATOR. STEPHEN M. LEWIS, Sweet Home, Ark. Filed Apr. 19, 1920. Serial No. 375,013. 2 Claims. (Cl. 119—42.)

1. An incubator including a body, a layer of granular heat retaining material covering the bottom of the body, a coiled pipe embedded in said material and having an upstanding end portion in the body and an outwardly projecting portion beyond the body, and means outside of



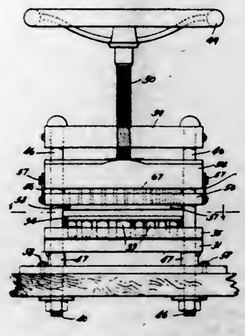
the body for heating the contents of the outwardly projecting end of the pipe, the upstanding inner end of said pipe opening into the body for the escape of vapor.

1,346,718. HAIR-FRINGE. MAX MULLER, New York, N. Y. Filed Oct. 25, 1919. Serial No. 333,240. 2 Claims. (Cl. 132—23.)



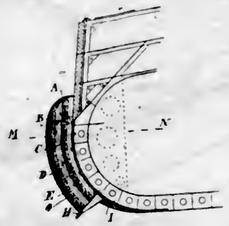
1. As an article of manufacture, a fringe of hair comprising strands of hair having doubled-up portions, a flexible carrier on which the said doubled-up portions of the strands are strung one alongside the other, and a segmental comb fitting the inner face of the said fringe and having its upper edge below the top of the double-up portion of the strands, the said comb being provided along its upper portion with openings and fastening means engaging the said comb openings and looped around the said carrier to fasten the strands to the comb.

1,346,719. DENTAL-CROWN-MAKING MACHINE. IGNACIO NAVARRO M., Caracas, Venezuela. Filed Dec. 4, 1917. Serial No. 205,380. 7 Claims. (Cl. 113—39.)



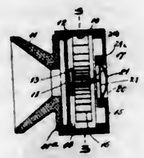
1. A machine as characterized comprising a press having a base plate provided with standards, and a reciprocating head mounted to slide on said standards; a die block for holding denture forming female dies; a plurality of operatively united denture forming male dies serially arranged; and means for predetermining the operating position of said denture forming dies with reference to the dies in said die-block, said means embodying a supporting plate for said striking dies having a detachable connection with the head and provided with a series of variously shaped passages for holding the shanks of said striking dies.

1,346,720. MEANS OF DEFENSE FOR SHIPS AGAINST THE ATTACKS OF SUBMARINES. PIO PERRONE, Rome, Italy, assignor to Societá Anonima Italiana Gio. Ansaldo & C., Rome and Genoa, Italy. Filed July 24, 1916. Serial No. 111,089. 4 Claims. (Cl. 114—13.)



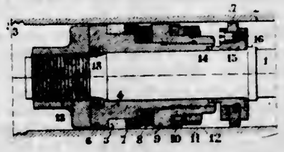
1. A defense for ships against the attacks of submarines comprising in combination a hull structure, a plurality of crossed steel plates applied to the exterior of the hull, vertical frames on the exterior of the said crossed steel plates, a thick layer of pitch held in place by the said carrying frames, longitudinal timber planking carried by the said vertical frames and a second vertical timber planking applied to the preceding longitudinal planking and well calked.

1,346,721. MECHANICAL BONE-CONDUCTIVE EAR. JOSEPH PRENN, Boston, Mass. Filed Apr. 11, 1919. Serial No. 289,191. 4 Claims. (Cl. 181—0.5.)



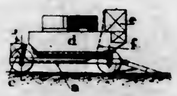
2. A device of the kind described, comprising a housing body having a mouth piece at one end thereof, a vibratory diaphragm associated with said mouth piece, and a spiral spring fixed at its outer end to said body, and having mounted for vibration therewith at its center a stylus with a button at one end thereof adapted to be impinged by said diaphragm, the pointed end of said stylus equipped with means to coöperate therewith to transmit vibrations to a bony surface of the cranium for the purpose stated.

1,346,722. HYDRAULIC-JOINT CARTRIDGE. EMILE RIMAILHO, Paris, France, assignor to Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt, Paris, France. Filed July 27, 1917. Serial No. 183,203. 4 Claims. (Cl. 29—84.)



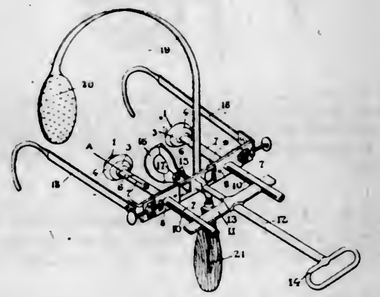
1. In combination, a piston rod having a collar, a washer on the piston rod in engagement with the collar thereof, a hydraulic joint on the piston rod and in engagement with the washer, said joint including a mounting having at one end a threaded recess for the connection of a tool therewith, and a nut on the piston rod and engaging the mounting to clamp the joint on the piston rod.

1,346,723. ROAD-TRAIN. EMILE RIMAILHO, Paris, France, assignor to Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt, Paris, France. Filed July 27, 1917, Serial No. 183,202. Renewed Nov. 21, 1919. Serial No. 339,679. 4 Claims. (Cl. 180—1.)



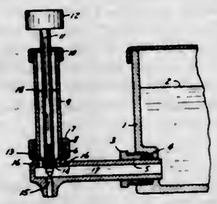
1. In a road train a vehicle, a motor on said vehicle for the propulsion of the same, means for controlling the vehicle, a load carrier removable from the vehicle, and a generator on said load carrier for supplying energy to the motor on the vehicle.

1,346,724. APPARATUS FOR MASSAGING THE EYES. JOSEPH ROGER, Paris, France. Filed Aug. 30, 1917. Serial No. 188,923. 3 Claims. (Cl. 128—44.)



3. In an apparatus for massaging the eyes, the combination of a transverse frame having its front face formed in the shape of a very wide or open dihedral angle, and relatively adjustable eye pad supports extending at right angles from the sides of said dihedral angular face, whereby said eye pad supports are caused to converge slightly upon the eyes of the patient.

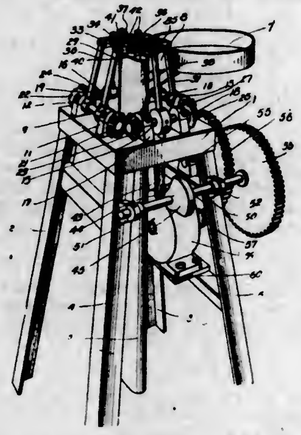
1,346,725. COMBINED SIGHT-GAGE AND VALVE. MILTON H. SHOENBERG, San Francisco, Calif. Filed Dec. 27, 1919. Serial No. 347,733. 5 Claims. (Cl. 251—155.)



2. The combination of a liquid level indicator and valve means, comprising a glass tube, a base for said tube having tubular means adapted to communicate with the inte-

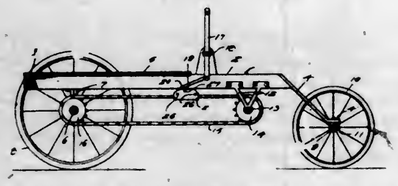
rior of a vessel and communicating with the glass tube; a valve rod disposed through the glass tube and having its end formed to coöperate with a passageway through the wall of the tubular communicating means, and means for raising and lowering said valve rod.

1,346,726. DEVICE FOR APPLYING LIQUID COATINGS TO ELONGATED BODIES. HUGH L. THOMPSON, Kansas City, Mo. Filed Jan. 19, 1920. Serial No. 352,325. 7 Claims. (Cl. 91—32.)



1. A device for coating elongated bodies, comprising a coating material-applying reservoir, an elastic web above the reservoir having a body-receiving opening, and means for intermittently stretching the web to enlarge the opening.

1,346,727. MANUALLY-PROPELLED VEHICLE. LEONARD M. TUCKER, Seattle, Wash. Filed July 23, 1919. Serial No. 312,701. 3 Claims. (Cl. 208—38.)

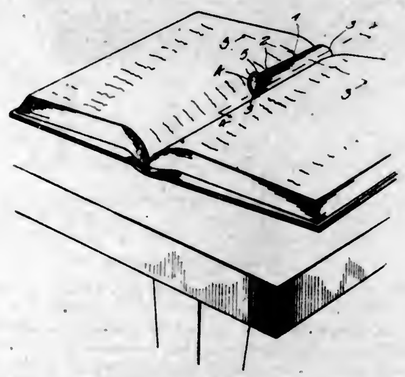


3. A manually propelled vehicle comprising a frame and propelling means including a driving chain, an actuating lever pivotally mounted, a housing slidably associated with the chain for movement longitudinally thereof, a dog pivotally mounted intermediate its end to said housing and adapted to engage the chain during movement of the housing in one direction to impart movement to the chain, and a link pivotally connected with the lower end of the lever and to the upper end of the dog whereby the dog may be moved out of engagement with the chain when the housing is moving in one direction and brought into engagement with the chain when the housing is moved in the opposite direction.

1,346,728. MANUFACTURE OF FERROCHROMIUM. WILLIAM LAWRENCE TURNER, Atherstone, England. Filed Jan. 7, 1918. Serial No. 210,697. 3 Claims. (Cl. 75—17.)

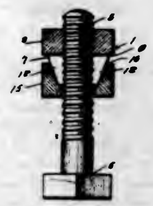
3. The herein described process, which consists in preheating a thermic mixture containing a bichromate of the alkali metals and a reducing metal to cause chemical reaction to be set up, and introducing into the mass a chromium iron ore in the presence of the heat and reaction and further heating the mass.

1,346,729. BOOKMARK. JEAN J. VANDERVEER, Brattleboro, Vt. Filed May 15, 1919. Serial No. 297,324. 1 Claim. (Cl. 116—119.)



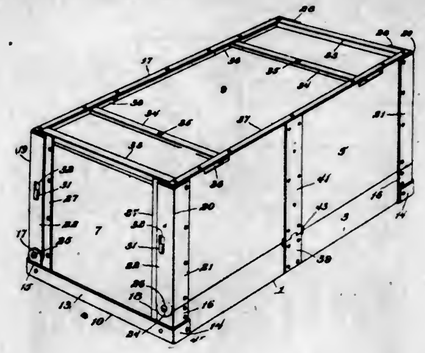
A book-mark comprising a narrow strip of sheet material adapted for reception between the upper portions of two book leaves, said strip having rounded ends of greater width than the remainder of said strip, the curvature of each end coinciding with an edge of the strip but being outwardly spaced from the other edge, forming a pair of lugs having straight inner ends joining opposite edges of the strip and disposed at right angles to the said edges, said lugs being adapted to hook temporarily against the page-connecting cord or staples of the book.

1,346,730. NUT-LOCK. CARL H. VIEBROCK and HENRY W. VIEBROCK, Douglas, Wash., assignors of one-tenth to Henry Planetz, Douglas, Wash. Filed Oct. 17, 1919. Serial No. 331,305. 1 Claim. (Cl. 151—19.)



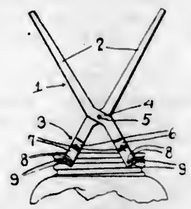
In a nut lock, the combination with a threaded bolt, an inner member having a conical shaped opening in its outer portion and slidably mounted on said threaded bolt, an outer locking member provided with a frusto-conical extension divided into sections by spaced inwardly directed V-shaped slots opening upon the small free end thereof to permit the small ends of the sections to be forced toward one another and clamped upon the threads of the bolt as the outer member is threaded upon the bolt toward the inner locking member and the frusto-conical extension thereby forced into the conical shaped opening of the inner locking member and brought into binding engagement with the walls of said conical shaped opening, said frusto-conical extension having a greater inclination than the said conical shaped opening of the inner locking member whereby the sections will be readily forced toward the threaded bolt and caused to bind upon the thread thereof as the frusto-conical extension moves into the said conical opening of said inner locking member.

1,346,731. COLLAPSIBLE CONTAINER. STOUGHTON L. WALKER and JOHN M. LAURENSON, Jersey Shore, Pa. Filed Jan. 24, 1920. Serial No. 353,673. 6 Claims. (Cl. 217—15.)



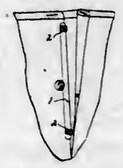
1. A collapsible container having a bottom wall, infolding end and side walls, and a removable cover wall, sliding hinge connections for the infolding end walls, reinforcing members for the several corners and edges of the container walls, and normally non-alining interlocking means formed with adjacent corner reinforcing strips of the end and side walls, said interlocking means being operatively engaged for securing the end and side walls in vertical position by a vertical reverse directional movement of the end walls.

1,346,732. JAR-HOLDER. JAMES H. WEAVER, Aberdeen, Wash. Filed Apr. 8, 1919. Serial No. 288,432. 1 Claim. (Cl. 294—28.)



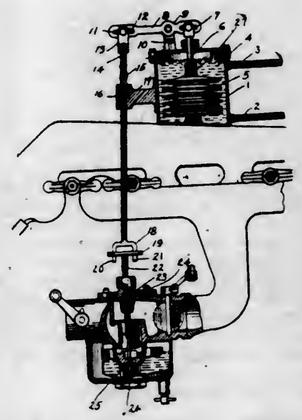
A device of the class described comprising a pair of members pivotally connected together and each consisting of a handle portion and a head portion, said head portion having a pair of laterally extending arms with their outer ends bent at right angles and a resilient element stretched between said ends, said element lying parallel with the arms.

1,346,733. SHIRT ATTACHMENT. EDWARD T. WHITER, Pittsburgh, Pa. Filed June 7, 1919. Serial No. 302,459. 1 Claim. (Cl. 2—90.)



An attachment adapted for use with an open front shirt, including a stiffening strip, and substantially U-shaped clips having their outer arms secured to the outer face of the strip and their inner arms extending across the inner face of said strip, said clips co-acting with the strip for attaching the same to the edge portion of the inner lap of the shirt bosom, the bight portions of the clips being positioned closely adjacent to the inner edge of the strip and the strip being relatively narrow whereby projections are avoided and the strip and the clips concealed by the outer flap of the shirt bosom.

1,346,734. AUTOMATIC CARBURETER-REGULATOR. JAMES T. YOUNG, St. Louis, Mo. Filed July 14, 1919. Serial No. 310,731. 3 Claims. (Cl. 123—106.)



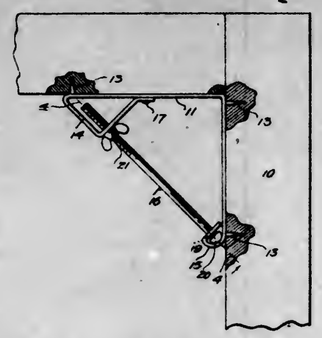
1. In a thermostatically-operated controlling device for valves, a casing, means for varying the temperature within the casing, a thermostatic element within the casing and having a part projecting therethrough, a rotatable shaft, connections between the shaft and the projecting part, said shaft having an externally threaded portion whereby a longitudinal movement thereof will impart a rotative movement thereto, and a threaded bracket engaging said threaded portion.

1,346,735. SEALING ATTACHMENT FOR FRUIT-JARS. WILLIAM H. F. YOUNG, Muncie, Ind. Filed Apr. 15, 1920. Serial No. 374,017. 10 Claims. (Cl. 215—89.)



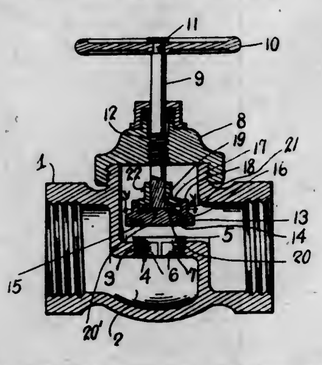
10. A closure attachment for jars, comprising a ring, two loop members having their lower ends pivoted to the ring, and their converging ends extending inward, a screw-threaded bolt extending transverse the ring and having one end connected to the upper end of one of the loops, a coiled spring surrounding the bolt and having its inner end extending upward and its extremity formed into an inwardly extending hook detachably engaging the upper end of the other pivoted loop and nut on the bolt for compressing the spring.

1,346,736. BRACE. WILLIAM LEROY ALLEN, Topeka, Kans. Filed Oct. 21, 1919. Serial No. 332,272. 1 Claim. (Cl. 20—38.)



A corner brace comprising a substantially right angular member formed from a single piece of material and bent at its free ends to provide substantially triangular loops, the opposite legs of each loop being substantially parallel, prongs projecting laterally from said member, an adjusting screw having its head positioned in one of said loops and its threaded end passing through an opening in the other loop and a nut mounted upon the adjusting screw and bearing against the outer face of the last mentioned loop, whereby the brace may be adjusted and secured in position.

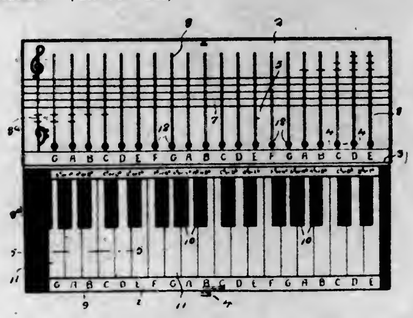
1,346,737. VALVE. WILLIAM ALONZO ATTEBERRY, Coweta, Okla., assignor of one-fourth to O. A. Sewell and one-fourth to P. A. Fox, Coweta, Okla. Filed Apr. 5, 1919. Serial No. 287,713. 2 Claims. (251—46.)



1. In a valve, the combination of a stem, of circular form in cross-section, having a circular flanged head at its inner end; and a body comprising a main section having an outer portion interiorly threaded and exteriorly of angular form in cross-section for the application of a wrench and also having an interior central circular boss disposed in the head of the stem, and a coupling section having an outer portion revolubly mounted on the stem and exteriorly of angular form in cross-section for the application of a wrench and also having a portion surrounding the head on the stem and exteriorly threaded and disposed in and engaged with the interiorly threaded portion of the main section.

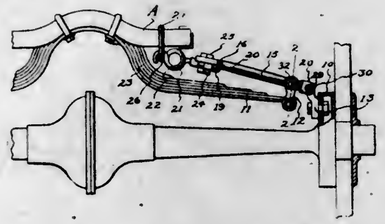
2. The combination of a valve casing having an interior portion in which is a threaded bore, a valve body movable in the casing and toward and from said interior portion and having a circular groove in its face adjacent to said portion and a gasket in said groove, and a circular exteriorly-threaded valve seat with an angular hole therein, disposed in the threaded bore of the interior body portion and having at its outer end an enlarged beveled shoulder tightly seated in said bore and projecting outwardly from the interior casing portion and adapted to be received in the groove of the valve body and engaged with the gasket in said groove.

1,346,738. GAME APPARATUS. ENID BEAUPRÉ, Albany, N. Y. Filed July 18, 1919. Serial No. 311,835. 2 Claims. (Cl. 35—12.)



1. A game apparatus comprising a casing having two box-like sections hinged together, one of the said sections being provided with a wall in which are slots extending at right angles to the length of the wall and being also provided on its face with a musical scale the lines and spaces of which are intersected by said slots, and the other section being provided with end walls and with removable intermediate spaced portions blackened to simulate the half-tone keys of a piano key-board, and one of the sections being provided with the letters of the scale, in regular sequence, figures retained and movable in the said slots, and members removably arranged in the last-named section and having reduced portions adapted to be interposed between the half-tone key-representing members.

1,346,739. SHOCK-ABSORBER. WILLIAM D. BROWN, Somerset, Ky. Filed Sept. 20, 1919. Serial No. 325,057. 3 Claims. (Cl. 267—17.)

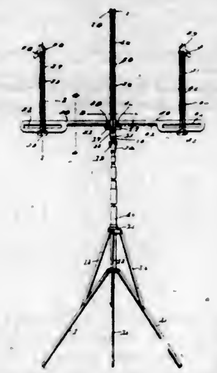


1. The combination with a vehicle, having a bracket secured to the axle housing, and a shackle carried by the terminal of the body supporting spring, of an arm having one end pivotally connected with said bracket, a coiled spring formed to provide an intermediate loop projecting at an angle from the convolutions of said spring, means for securing the loop to the opposite end of said arm, means for suspending said coiled spring from the chassis of the vehicle, and means for securing said shackle to the arm at a point intermediate its ends.

1,346,740. MUSIC-RACK. ROYAL W. CATHCART, Toledo, Ohio. Filed Dec. 10, 1918. Serial No. 266,110. 3 Claims. (Cl. 45—121.)

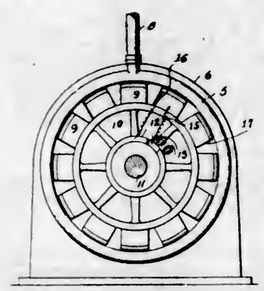
1. In combination with a support having an angle neck on the outer end thereof and a lateral stud on said neck,

of a music rack including a sleeve removably journaled on said neck, said sleeve, from the outer end thereof having a slot therein describing a straight passage and a spiral passage communicating with said straight passage, the inner wall of the straight passage having a notch designed



to engage with the stud when the sleeve is in one position on the neck to hold the rack in such position and the said stud adapted to enter the spiral passage when the sleeve is turned to reverse the face of the rack with respect to the support.

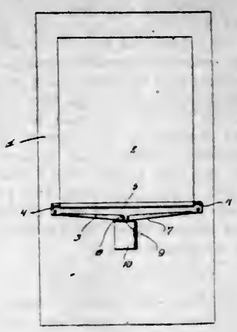
1,346,741. ELECTRICAL SUPERHEATER. SHADY DALE COLVIN, Myrtis, La., assignor of one-half to William H. Welch, Myrtis, La. Filed July 19, 1919. Serial No. 311,910. 3 Claims. (Cl. 219—38.)



1. In an electrical fluid-heater, the combination of annular headers spaced apart, a frame between the planes of the headers and to which they are connected, an annular stator housed in the frame and interposed between the headers, tubing of high resistance carried in the stator, and interposed and effecting communication between the headers, a rotor, field coils carried by the rotor and movable within the stator and said tubing, and means for supplying said coils with current.

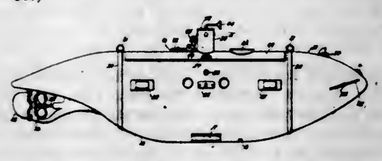
1,346,742. MOISTURE-COLLECTOR. GEORGE F. EDMONDS, Leavenworth, Kans. Filed Mar. 8, 1920. Serial No. 364,337. 2 Claims. (Cl. 20—70.)

1. A device of the calss described comprising a tray having tabs adapted to be secured to the door, the inner edge of said tray being straight and bent upwardly at an angle, a rubber strip of triangular-shape having a slot in its inclined face for receiving sai dinclin d edge, said tray



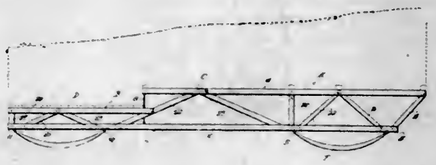
having an opening in its center for the outlet of water and a cup removably connected with the tray and suspended under said opening.

1,346,743. SUBMERSIBLE DESTROYING OR SALVAGING VESSEL. LOUIS FINK, Philadelphia, Pa. Filed Nov. 4, 1918. Serial No. 261,072. 1 Claim. (Cl. 61—69.)



In a self-contained electrically operable submersible for wrecking sunken vessels and having means for controlling the depth of submergence, the combination of an electromagnet mounted on a rotatable arm, means for hauling down a grappling implement into engagement by the said electromagnet, cutting tools projecting from the hull of the submersible and juxtaposed electromagnets rigidly mounted adjacent the said cutting tools for holding the submersible vessel against the sides of a sunken vessel.

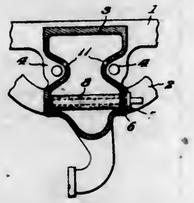
1,346,744. MOTOR-TRUCK FRAME. CLARENCE E. FLINCHBAUGH, Lima, Ohio. Filed Apr. 24, 1920. Serial No. 376,321. 2 Claims. (Cl. 296—28.)



1. A motor truck frame comprising lower longitudinal angle bars arranged in spaced parallel relation and connected at their forward and rear ends by transverse angle bars, a cross member connecting said bars at a point spaced from the front extremities, rearwardly and upwardly inclined bars secured at the junctures of said longitudinal bars with the rear cross bar, vertical bars rising from said longitudinal bars between said rear cross bar and said intermediate cross bar, upper longitudinal bars secured to the upper ends of said inclined bars and the upper ends of said vertical bars, cross bars connecting the forward and rear ends of said last named

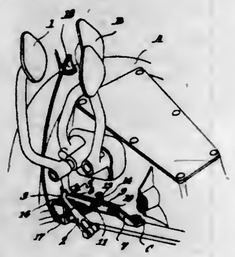
longitudinal bars, diagonal braces connecting said intermediate cross bar and the forward cross bar connecting the forward extremities of said last named longitudinal bars, diagonal braces connecting the end portions of said inclined bars, said plurality of oppositely inclined braces connected with said first and second named longitudinal bars and having their end portions arranged in abutting relation, longitudinal bars disposed above said first named longitudinal bars between the cross bars connecting the forward extremities thereof and said intermediate cross bar, a cross bar connecting the forward extremities of said last named bars, vertical bars secured to the forward corners of the first named bars at their junctures with the cross bar connecting them and also connected with the forward extremities of said last named longitudinal bars, and inclined brace bars secured to said first and last named longitudinal bars.

1,346,745. MANIFOLD-HEATER. FREDERICK DEENE GOODLAKE, Memphis, Tenn. Filed Dec. 22, 1919. Serial No. 346,488. 1 Claim. (Cl. 123—122.)



A manifold for internal combiustion engines having a heating chamber located on its outer face, said chamber having an enlarged lower part having an opening in one end, the side walls of the chamber curving inwardly above the enlargement and having upwardly extending openings therein forming air inlets and a torch member extending ing the enlarged lower part of the chamber and having screw threaded connection with the opening thereof.

1,346,746. ELECTRICALLY-CONTROLLED LEVER-LOCK. ROY MONROV GRUPE, Broadview, Mont., assignor of one-half to Leo A. Henter, Broadview, Mont. Filed Feb. 20, 1919. Serial No. 278,219. 9 Claims. (Cl. 74—81.)



1. The combination with a clutch operating lever, of means for locking the lever against movement, means normally maintaining said locking means in an unlocking position, and electrically operated means for operating said last-named means to permit movement of said locking means into a locking position.

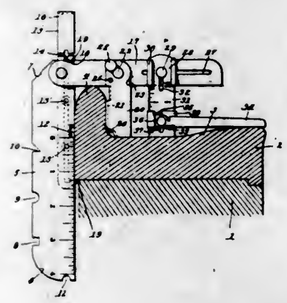
1,346,747. PULLEY-PLATE. EDDIE H. HAMILTON, Washington, D. C. Filed Nov. 25, 1919. Serial No. 340,590. 2 Claims. (Cl. 156—20.)

2. In combination with a two piece drapery carrying pole and support for the ends thereof, the latter including each a plate having openings for securing means, a threaded boss and a removably interiorly threaded sleeve designed to engage with the boss; of pulley carrying members, each including spaced plates having openings therethrough designed to receive therebetween the body plate of the support and to have passed through the said open-



ings the boss portions of the supports, said members having elongated slots therethrough registering with the lower openings in the body plates of the supports, offset feet on the lower portions of the members, pulley wheels carried thereby, and a flexible element trained around said wheels and connected to the confronting edges of the draperies, as and for the purpose set forth.

1,346,748. LOCOMOTIVE-TIRE LIMIT-OF-WEAR GAGE. ANTHONY B. HEDGES, Brunswick, Md. Filed Apr. 29, 1919. Serial No. 293,395. 7 Claims. (Cl. 33—203.)



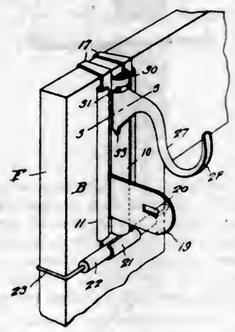
1. A gage of the class described comprising a straight edge supporting member, an arm extending at right angles to said member and a finger carried by said arm and having a flange-engaging projection thereon, said finger lying parallel with the supporting member and forming with said member a flange receiving space.

1,346,749. SHADE-BRACKET. JOHN C. HENSON, Zwolle, La. Filed Nov. 5, 1918. Serial No. 261,291. 4 Claims. (Cl. 156—24.)

1. A shade bracket comprising upper and lower members slidably joined together and capable of relative longitudinal movement, a compressible spring disposed between opposite ends of each of said members to force them normally inward, a housing for said spring, shade and curtain brackets carried by one of said members, a bearing located at the lower end of the lower slidably joined member, a sleeve mounted for sliding movement in said bearing and oppositely extending yieldably mounted extensible hooks projecting from each end of said sleeve.

2. A shade bracket comprising upper and lower members slidably joined together and capable of relative longitudinal

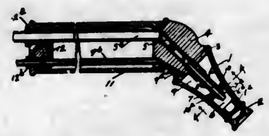
movement, a compressible spring disposed between opposite ends of each of said members to force them normally inward, a housing for said spring, a shade supporting bracket carried by one of said members, means carried by each of said members for removably securing them to a window frame, a curtain bracket and resilient means for removably securing the curtain bracket to one of the members.



3. A shade bracket comprising upper and lower members slidably joined together and capable of relative longitudinal movement, a compressible spring disposed between opposite ends of each of said members to force them normally inward, a housing for said spring, a shade supporting bracket carried by one of said members, means carried by each of said members for removably securing them to a window frame, a curtain bracket and means including inwardly projecting resilient fingers for removably securing the curtain bracket to one of the members.

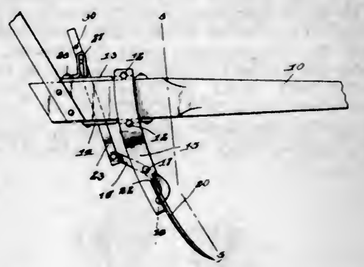
4. A shade bracket comprising upper and lower members slidably joined together and capable of relative longitudinal movement, a longitudinally disposed semi-circular offset portion formed in the upper member, which, together with the lower member defines a housing, a compressible spring disposed between opposite ends of each of said members to force them normally inward, shade and curtain brackets carried by one of said members and means carried by each of the members for detachably securing the brackets to a window frame.

1,346,750. SPRAY-NOZZLE. WILLIAM M. HERMAN, San Jose, Calif. Filed Mar. 31, 1919. Serial No. 286,377. 2 Claims. (Cl. 91—45.)



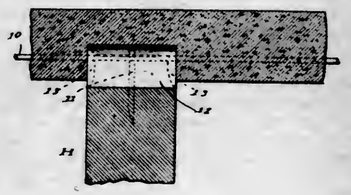
1. In a device of the class described, the combination of a thimble having one end reduced in size and screw threaded externally and the larger end screw threaded internally; a spray button having the desired outlet screwed onto said externally threaded portion of the thimble and a plug screwed into the larger internally threaded end of the thimble, said plug having a longitudinal bore internally screw threaded; a nozzle screwed into said bore and projecting into said thimble adapted to conduct liquid therethrough; a pointed tip on said nozzle, a flange on said nozzle, said flange having a plurality of apertures passing obliquely through said flange; an annular shoulder on the inner wall of the thimble against which the rim of said flange seats thus forming an air chamber between said flange and the plug and a mixing chamber between said flange and the spray button, said plug having a second bore for the admission of air under pressure to said air chamber; tubes connected one to each bore in the plug; a regulating valve on each tube and a casing inclosing said tubes substantially as described.

1,346,751. PLOW. SAMUEL R. HERRING, Delhi, La. Filed Mar. 15, 1920. Serial No. 365,848. 2 Claims. (Cl. 97—26.)



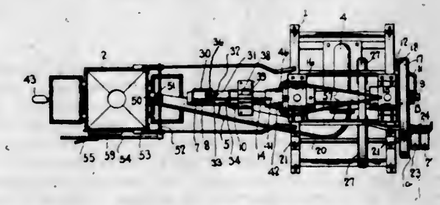
1. A plow having a standard provided at its lower end with a shovel or blade seat, a pivotal clamp member mounted upon the standard and provided with a downwardly and rearwardly directed jaw for engagement with an opening in a shovel or blade engaging said seat, an operating bar connected with said clamp member and extending slidably through suitable guides on the plow beam, and a latch for engaging and securing said operating bar with the clamp member in its shovel engaging position.

1,346,752. CONCRETE ROOF CONSTRUCTION. GEORGE ABSOLUM HURST, Louisville, Ky. Filed Mar. 9, 1920. Serial No. 364,434. 3 Claims. (Cl. 108—6.)



1. A roof structure comprising rafters, a wire screen stretched over said rafters in spaced relation thereto, staples engaging the screen and driven into the rafters, hollow metal shells disposed over the staples and engaging against the rafters, and a sheet of concrete poured onto and embedding the screen and the hollow shells.

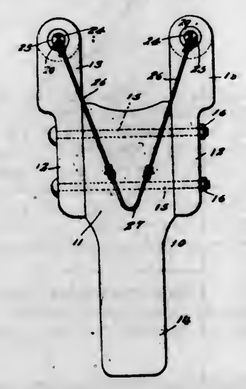
1,346,753. COMBINED FURNACE AND FLUE-WELDER. FIDELIS JOHNSON, Delphos, Ohio. Filed Apr. 16, 1919. Serial No. 290,483. 1 Claim. (Cl. 78—85.)



In a machine of the character specified, a supporting frame, a hollow cylindrical drive sleeve journaled thereon,

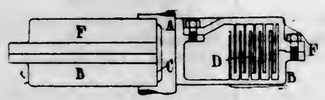
a stationary shaft extending through and beyond one end of the drive sleeve, a stationary mandrel, removably secured to the projecting end of said shaft, a coupling member keyed to the inner end of the drive sleeve and rotating therewith, a roller mounted to revolve around the mandrel and over the end of a flue to be welded, a horizontally disposed lever arm fulcrumed to the coupling member, said lever arm carrying said roller, and means under the control of the operator for swinging the roller in against the end of a flue to be welded, said means comprising a cone mounted for end-wise movement on the drive sleeve, resilient means normally holding the cone in retracted or inoperative position and a foot treadle for shifting the cone forwardly under the adjacent end of the lever arm against the action of said resilient means.

1,346,754. SLING-SHOT. RALPH L. JONES, Gordon, Tex. Filed Mar. 23, 1920. Serial No. 368,131. 3 Claims. (Cl. 124—1.)



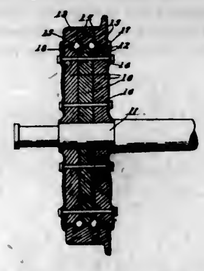
3. A device of the character described comprising a U-shaped frame having a handle, rods slidable through the arms of said frame, stop members on the ends of said rods, coil springs surrounding the rods and abutting against the stop members whereby to urge the rods in one direction, flexible members connected with the other ends of said rods, and a sling connected with said flexible members.

1,346,755. ELIMINATING TORSIONAL VIBRATIONS IN HIGH-SPEED ENGINES, &c. FREDERICK WILLIAM LANCHESTER, London, England. Filed Feb. 4, 1920. Serial No. 356,360. 1 Claim. (Cl. 74—6.)



A torsional vibration damper for high speed engines and the like comprising a hollow drum containing a fluid of high viscosity and appropriate density, a plurality of annular ring-like elements arranged circumferentially within the drum and in proximity to the interior surface of the peripheral portion thereof, means for spacing the elements and means for clamping the elements in spaced relation so as to in consequence provide a series of circumferential grooves within the drum and thereby establish an adequate surface of contact with the fluid.

1,346,756. WHEEL. EDWARD H. LEWIS, Scranton, Pa. Filed Mar. 29, 1919. Serial No. 286,000. 2 Claims. (Cl. 295—44.)



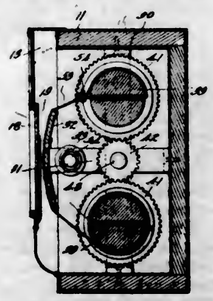
1. A wheel formed of separate disk sections adapted to be secured together upon an axle against independent rotation, said disk sections being grooved around the edge of their meeting faces, a tire surrounding the edges of the disk sections and having grooves therein coöperating with the before-mentioned grooves to provide race-ways and means for securing the disk sections together.

1,346,757. CAP FOR MILK-BOTTLES AND SIMILAR RECEPTACLES. JAMES A. LOYSTER, Cazenovia, N. Y. Filed Dec. 29, 1915. Serial No. 69,218. 1 Claim. (Cl. 215—14.)



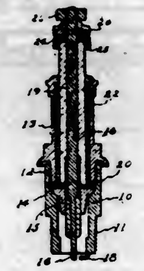
A bottle stopper comprising a circular disk and a wire finger loop lying flatwise against the upper face of the disk and having its ends passed through spaced apertures in said disk and engaged with the underside of the disk at points between a straight line drawn through the apertures and the closed end of the loop and out of alinement with portions of the arms which engage the upper face of said loop, the main body of said loop at one side of the disk and the ends thereof at the opposite side of the disk being normally embedded flatwise in the corresponding sides of said disk substantially coincident with the surfaces of said sides whereby the disks may be stacked one upon the other with their adjacent faces in close contact throughout their area.

1,346,758. INDICATOR. WILLIAM C. MEADOR, Chattanooga, Tenn., assignor of one-half to Emmett H. Rolston, Chattanooga, Tenn. Filed Dec. 19, 1916. Serial No. 137,854. 2 Claims. (Cl. 40—31.)



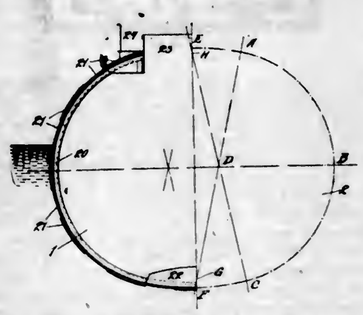
1. An indicator having spaced supports, rolls mounted in said supports, gearing connecting the rolls, a drive pinion for the gearing, a driven segment to engage the drive pinion, and means coöperating with the drive pinion and supports to prevent overrunning of the pinion in either direction after the pinion is disengaged by the segment and the said means being lifted into inoperative position by the pinion when the same is engaged by the segment.

1,346,759. SPARK-PLUG. ALBERT R. MEYER, Sacramento, Calif. Filed Oct. 6, 1919. Serial No. 328,681. 2 Claims. (Cl. 123—169.)



1. A spark plug comprising a body, an internal shoulder, an electrode passed through said body, a member seated upon said shoulder and receiving said electrode, insulating material surrounding the electrode for a portion of its length above said member, a glass tube surrounding the electrode and receiving said insulating material, said tube resting upon the said member, a cap fitted on the electrode and receiving the opposite end of said tube, means for holding the cap in position, and an electrode depending from said body.

1,346,760. CONSTRUCTION OF SHIPS. GIUSEPPE VITULLI MONTARULI, Rome, Italy. Filed Oct 16, 1918. Serial No. 258,324. 1 Claim. (Cl. 114—56.)



A ship having a plurality of transverse frames, the frames for a determinate length of the ship being formed with side sections of constant curvature and top and bottom curved sections having radii approximately twice the length of the radii of said side sections, the remaining portion of the ship having similar frames with straight portons at the sides of gradually increasing length.

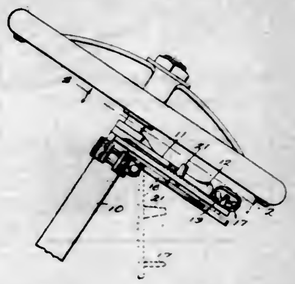
1,346,761. GAS-BURNER. MARTIN A. MOORE, Topeka, Kans. Filed Mar. 9, 1918. Serial No. 221,453. 1 Claim. (Cl. 158—113.)

A burner of the class described comprising a lower cylindrical portion and an upper portion of frusto conical shape, said cylindrical portion having notches in its lower edge and the frusto conical portion having a circular opening in its top and four oblong openings midway its ends, the oblong openings being spaced a quarter of a



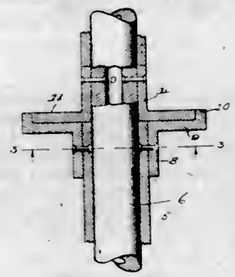
circle from each other, an arm concentrically arranged in relation to the central opening and said oblong openings and the central opening having inwardly flaring walls.

1,346,762. CONTROL-LEVER LOCK FOR AUTOMOBILES. DAVID MORRIS and WILLIAM LEVY, Paterson, N. J.; said Morris assignor to said Levy. Filed Feb. 26, 1920. Serial No. 361,490. 2 Claims. (Cl. 70—126.)



1. In an engine control lever lock for automobiles, the combination with the usual steering post casing bearing the control levers and a segment upon which said control levers may be adjusted to positions at which the engine of the automobile is operative and inoperative, said segment being provided with an opening, a plate pivotally secured to said steering post casing and adapted to be shifted to raised and lowered positions, an upstanding portion on said plate adapted to extend through the opening formed in said segment, said upstanding portion being provided with an opening adapted to receive the shackle of a lock, and means carried by said plate and adapted to engage the control levers when in said inoperative position and prevent the shifting thereof to the operative position.

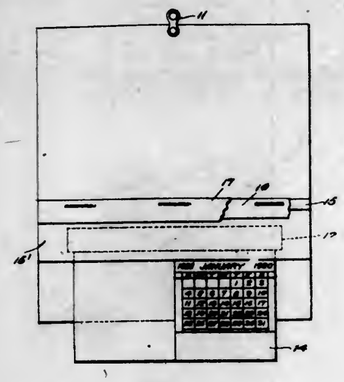
1,346,763. LOCK. JOSEPH JOHN MORRIS, Stockton, Calif. Filed Nov. 8, 1918. Serial No. 261,636. 1 Claim. (Cl. 70—90.)



In combination with the column and the steering post of an automobile, of a collar secured to the upper end of the steering column, an outwardly extending flat round plate integrally formed on the upper edge of the collar, a peripheral flange on the plate, said plate having an

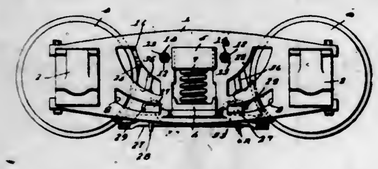
opening therethrough, a collar secured on the steering post, an outwardly extending flat round flange on the lower edge of said collar designed to rest on the mentioned plate and to be surrounded by the peripheral flange of the said plate, and said flange having an opening adapted to register with the opening in the plate, when the steering post is turned to one position, and to receive the shackle of a lock therethrough.

1,346,764. CALENDAR. EMORY G. PENNINGTON, Miami, Tex. Filed Jan. 6, 1920. Serial No. 349,703. 4 Claims. (Cl. 40—107.)



1. A calendar comprising a backing having a transverse slot, a reinforcing element embracing the edges of said slot, a plurality of pages secured to the back and immediately beneath the slot and adapted to be singly passed through the slot, and means normally covering said slot, concealing the slot from view.

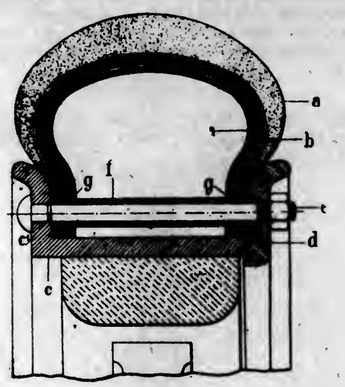
1,346,765. TRUCK AND BRAKE FOR RAILWAY ROLLING-STOCK. FRANK S. PORTER, Cushing, Okla., assignor of one-third to Rufus M. Porter, Pawnee, Okla., and one-third to E. F. Herrin, Cushing, Okla. Filed Apr. 22, 1919. Serial No. 291,803. 4 Claims. (Cl. 188—213.)



4. The combination with the side members of a truck, said side members having longitudinal curvilinear slots, a brake beam movable laterally in the arc of a circle in said slots and capable of playing endwise in the slots and between the side members and having a fixed abutment opposed to the inner side of one side member, an abutment detachably connected to the brake beam and opposed to the inner side of the other frame member, and brake shoes carried by said beam.

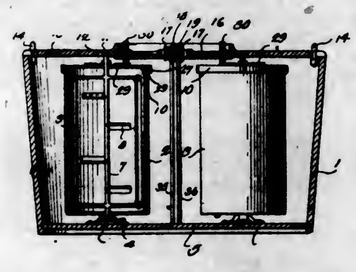
1,346,766. VEHICLE-TIRE. JEAN AUGUSTE PRINCE and ALBERT LOUIS GILLES, Nice, France. Filed Apr. 4, 1919. Serial No. 287,476. 1 Claim. (Cl. 152—8.)

A vehicle tire comprising, in combination, a tread, elastic members sunk in the material of said tread, bolts permanently fixed to the wheel and passing through the tread and the elastic members, sleeves on said bolts serv-



ing as stays between the edges of the elastic members and washers for holding said sleeves in position.

1,346,767. ICE-CREAM FREEZER. FANNIE D. REINHARDT, Billings, Okla. Filed Apr. 23, 1919. Serial No. 292,117. 2 Claims. (Cl. 259—49.)

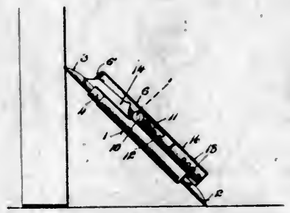


1. In a confection freezer, a substantially oval shaped freezing material container having flat parallel arranged side walls, a pair of confection containers rotatably mounted in the first mentioned container, a head bar arranged longitudinally of the first mentioned container, means carried by the first mentioned container for detachably engaging the head bar for holding the same against displacement, a spider carried by the hub bar, a longitudinally disposed shaft rotatably carried by the spider, gears keyed to the shaft, gears formed on the confection container and arranged to be engaged by the first mentioned gears, a right angularly disposed shaft carried by the spider, means operatively connecting the right angularly disposed shaft with the first mentioned shaft, and means for rotating said right angularly disposed shaft.

1,346,768. PORTABLE AUTOMATIC DOOR-LOCK AND BURGLAR-ALARM. SAMUEL RITCHIE, Ladysmith, Wis., assignor of one-third to Stanley L. Chicker, Ladysmith, Wis. Filed Jan. 3, 1920. Serial No. 349,171. 1 Claim. (Cl. 116—13.)

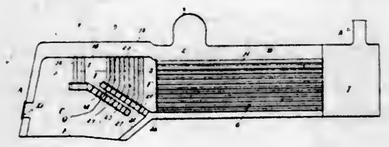
In an alarm clock comprising a hollow barrel closed at one end and having a claw extending therefrom, a grip claw having a shank in telescopic union with the open end of the barrel, means for holding the claw shank against rotary movement, a coil spring interposed between the claw shank and closed end of the hollow barrel structure, constituting a yieldable lock; the combination of a firing plug cylinder arranged parallel with the hollow barrel and

secured thereto, the cylinder being provided with a longitudinal slot having a firing pocket at one end and a safety pocket at the other, a spring-controlled firing plug reciprocatively mounted in the cylinder, a button extending from the firing plug through the cylinder slot and



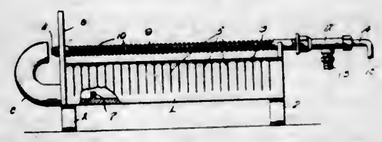
adapted to be selectively fitted in the firing pocket thereof or the safety pocket, a cam finger carried by the telescopic claw shank and extending in a line of travel for engagement with the button, when the same is in the firing pocket of the cylinder slot, and a cartridge magazine mounted in the lower end of the firing plug cylinder.

1,346,769. STEAM-BOILER FURNACE. ROBERT G. SEAMAN, Summerhill, Pa. Filed Dec. 8, 1917. Serial No. 206,337. 1 Claim. (Cl. 122—58.)



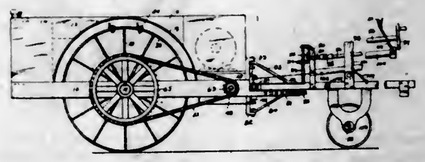
A boiler furnace having water legs at the sides thereof, a downwardly and forwardly inclined water arch extending between and communicating with the water legs and communicating at its lower forward end with the lower portion of the water space of the boiler, a second water arch communicating with the water legs and arranged below and to the rear of the first-named water arch in spaced relation thereto and also in spaced relation to the front wall and the rear wall of the furnace, upright tubes establishing communication between the first-named water arch and the crown of the boiler, and upright tubes communicating with the second-named arch and the crown of the boiler; the said arches forming between them a flue.

1,346,770. HYDROCARBON-GAS GENERATOR AND BURNER. HARRY C. SILLETT and ALBERT W. COWAN, Kansas City, Mo., assignors of one-third to William M. Myers, St. Joseph, Mo. Filed July 24, 1918. Serial No. 246,615. 1 Claim. (Cl. 158—65.)



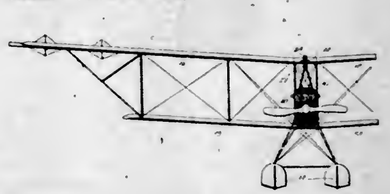
A device of the character described comprising a casing constituting a chamber, the top of said casing having its side portions formed as domes separated by a longitudinal valley, the top of said casing and domes being slit to provide burner openings, a plate at one end of said casing extending thereabove, a curved pipe communicating at its lower end with one end of said casing and having its upper end terminating adjacent said plate, a nozzle carried by said plate in alinement with the upper end of said pipe, a retort pipe supported above said valley and connected and communicating with said nozzle, a fuel supply pipe leading into said retort pipe, and a stem extending longitudinally through said retort pipe and movable to regulate the opening of said nozzle.

1,346,771. TRACTOR. JOHN H. SISSEL, Lamont, Iowa. Filed May 13, 1919. Serial No. 296,838. 5 Claims. (Cl. 180—12.)



1. In a device of the class described; a frame; an axle thereon; a wheel on said axle; an engine on said frame; means for imparting rotation to said wheel from said engine, including a variable speed gearing device and a clutch; a tongue pivoted to said frame; means supported on said tongue for controlling said variable speed gearing device, said means including a tubular member pivotally supported at its forward end; a plurality of levers mounted on said tubular member, cables operatively connected with said variable speed gearing device and extending through said tubular member and operatively connected with said levers.

1,346,772. HOISTING DEVICE FOR FLYING-MACHINES. MAX STUPAR, Buffalo, N. Y., assignor to Abraham J. Elias, Buffalo, N. Y. Original application filed June 25, 1919, Serial No. 306,613. Divided and this application filed Dec. 10, 1919. Serial No. 343,752. 1 Claim. (Cl. 244—31.)

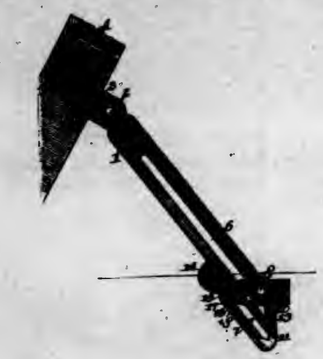


An airship including a fuselage having deck openings approximately at its center of gravity, upper and lower planes of which the former has an opening in the same vertical transverse plane as the fuselage openings, cables secured at their lower ends to the lower side portions of the fuselage and extending upwardly therein and through the said deck openings, a permanent hoisting connection engaging the upper ends of said cables and extending vertically through said upper plane opening, and a hoisting ring at the upper end of said connection held above the upper plane.

1,346,773. AUTOMATICALLY-OPERATED SUPPORT. SHERMAN E. SUDBURY, Salt Lake City, Utah. Filed Apr. 22, 1918. Serial No. 230,113. 8 Claims. (Cl. 217—60.)

1. A lid support, comprising a support bar with a recess for receiving a stud, and a switch bar, so mounted on the

support bar and operatively associated with the recess, to cause the stud to travel in a relatively short local path



around the switch bar at the end of the support bar, by manipulating and without closing the lid which carries the support.

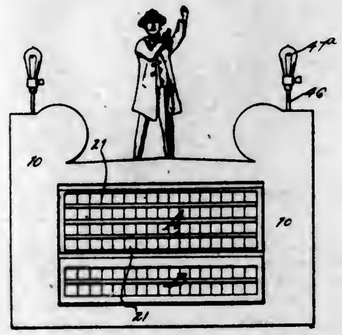
1,346,774. FUEL-PIPE LOCK DEVICE. FRANK VOGELZANG, Rock Valley, Iowa. Filed Jan. 17, 1919. Serial No. 271,745. 1 Claim. (Cl. 277—69.)



In a device of the class described, a fuel line pipe, a valve casing included in said fuel line pipe having opposite registering openings communicating with said pipe, a plurality of spaced sleeves fixed together at their lower ends, said sleeves having a plurality of registering openings adapted to register with said first described openings, a plurality of valves adapted to be received between said sleeves and capable of rotation around said sleeves, said valves having openings adapted when in one position to form a passageway between the two pieces of fuel pipe and when in another position to close the passageway, flanges fixed to the upper ends of said valves, said flanges being adapted to overlap each other, telescoping stems fixed to said flanges, whereby rotation of the stems will rotate said valves, said casing having an inwardly extending flange designed to cover said first described flanges, thereby preventing the removal of said valves without first removing said casing, said valve casing being held in position by said fuel line pipe.

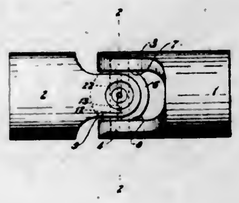
1,346,775. ADVERTISING DEVICE. FRANK VOGELZANG, Rock Valley, Iowa. Filed Oct. 24, 1919. Serial No. 333,082. 4 Claims. (Cl. 40—77.)

1. In a device of the class described, a frame, advertising devices adapted to have advertising signs placed thereon, said advertising devices being rectangular in cross section and being mounted on the frame for rotation upon spaced, parallel axes, means for rotating one of said devices to expose each face successively, and means for



operatively connecting the remaining device with the first device to cause the former to be rotated to expose one of its faces at the same time that two or more of the faces of the first described device are exposed.

1,346,776. UNIVERSAL JOINT. HOWARD L. WASHBURN, Springfield, Mass., assignor to Charles S. Ballard, assignee of The American Telegraphone Company, Springfield, Mass., a Corporation of the District of Columbia. Filed May 28, 1919. Serial No. 300,439. 5 Claims. (Cl. 64—102.)

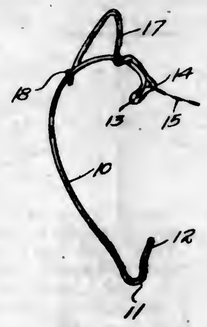


1. In a universal joint structure, the combination with the adjacent forked ends, of a block located between the ends and having openings each of which is of uniform bore therethrough, pins in the openings and having a running fit in the openings in the forked ends, and means for lubricating the bearing surfaces of the joint comprising communicating grooves in the block and one of the pins.

1,346,777. COMBINATION PENCIL-CLIP AND SPECTACLE-HOLDER. WILLIAM B. WHITE, Des Moines, Iowa. Filed Dec. 16, 1919. Serial No. 345,326. 1 Claim. (Cl. 24—81.)

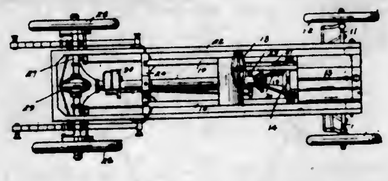
A combination pencil clip and spectacle holder comprising a link of resilient wire curved at its lower portion to form an upwardly opening member for receiving the lower part of the ear and curved thence upwardly to fit the back of the ear, thence forwardly and downwardly for fitting over the upward portion of the ear, said wire being folded back over said downwardly extending portion with a short open loop to receive a chain or the like, said wire being extended from said loop along side the downwardly curved

portion, then extended upwardly, thence downwardly and around the curved portion at the upper part of the device



for forming the pencil clip, said clip being inclined from the plane in which the rest of the device lies, so as to incline toward the head, when the device is installed.

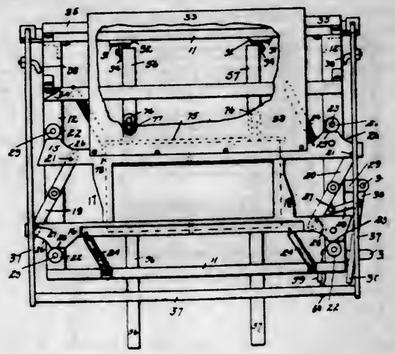
1,346,778. COMBINATION MOTOR-VEHICLE. RICHARD A. WORNSTAFF, Weldon, Iowa. Filed July 8, 1919. Serial No. 309,403. 1 Claim. (Cl. 180—16.)



A combination motor vehicle comprising an inner and an outer longitudinal frame member, one of said frame members being adapted to extend in between the other and to be spaced therefrom, steerable wheels mounted on said inner frame member, an engine having a variable speed transmission operatively connected therewith, supported by said inner frame member, a steering wheel connected with said steering wheels, foot actuated pedals placed adjacent to said steering wheel, for operating said transmission, a transverse frame member mounted on the rear ends of said inner longitudinal frame, said transverse frame member being designed to have its ends extend out beyond said inner frame, whereby it may be secured to said outer frame, the outer frame member being provided with an axle having a differential member mounted intermediate of its ends, traction wheels mounted on said axle, a transmission gearing device operatively connected with said differential member, a drive shaft for connecting said first transmission with said second transmission gearing device, whereby power from the engine may be transmitted to the traction wheels, manually operable levers spaced adjacent to said steering wheel for operating said last described transmission gearing device, a spacing block mounted between said inner and outer frames at their forward ends, and means adapted to extend through said spacing block for securing said inner and outer frames together at their forward ends.

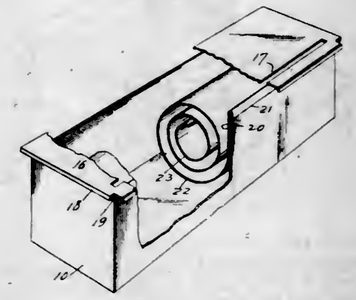
1,346,779. CEMENT-STAVE MACHINE. SIGURD E. ANDERSON, Des Moines, Iowa. Filed Sept. 15, 1919. Serial No. 323,982. 21 Claims. (Cl. 25—41.)

1. In a machine for making cement staves, a frame, mold members mounted thereon, adapted to form the sides and ends of the staves, means for moving the said mold members to position for forming the stave, and to position out of engagement with the formed stave, a pallet holding member, means for pivoting said member to the frame to permit said member to be moved selectively to horizontal position whereby a pallet thereon may coact with the mold members to form a stave, and to permit the ready re-



moval of the pallet and stave, and means for supporting said member in horizontal position, adapted to form a rigid connection between the foundation on which the frame may rest and a portion of said member below the mold members.

1,346,780. METHOD OF AND DEVICE FOR DEVELOPING FILMS. GEORGE C. BEIDLER, Rochester, N. Y. Filed Mar. 23, 1916. Serial No. 86,210. 9 Claims. (Cl. 95—90.5.)

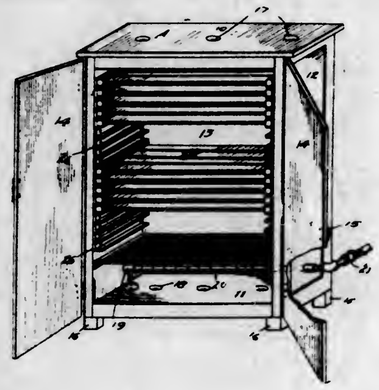


1. The method of subjecting film to developer consisting in pushing film into a developer container having a coil therein and causing the film to coil in a spiral form with spaces between the adjacent volutions of the coil.

1,346,781. PRINTER'S DRYING-CABINET. ADRIAN J. CHAVANNES, Des Moines, Iowa. Filed Sept. 23, 1919. Serial No. 325,792. 1 Claim. (Cl. 34—39.)

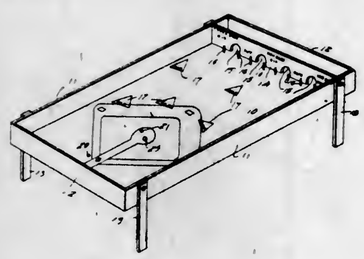
A printer's drying cabinet, comprising a cabinet mounted on legs; hinged door members for permitting access into said cabinet; means whereby paper supporting racks may be selectively placed in said cabinet at various distances relative to each other, whereby bundles of paper of various thicknesses may be accommodated, said racks including slats held together by end members, whereby air may pass through said racks, a heating member near the bottom of said cabinet, means for regulating the amount of heat permitted to circulate through said cabinet, a screen partition placed in said cabinet above said heating member, and below said paper supporting racks, thereby pre-

venting any paper from accidentally coming in contact with said heating member, said cabinet being provided with openings in its top and bottom for permitting air to



pass in and pass out thereby forming a circulation which, when heated, will quickly dry the paper stock on said racks.

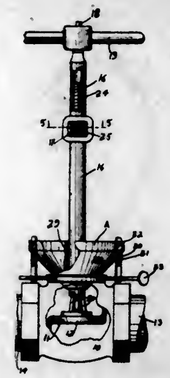
1,346,782. BASEBALL GAME. WILLIAM G. GEHRING, Woodhaven, N. Y. Filed Nov. 15, 1919. Serial No. 338,274. 2 Claims. (Cl. 46—61.)



2. In a game apparatus, a game board, a plurality of figures arranged on the board at predetermined points, a partition disposed across the board rearwardly of the figures and provided with a plurality of spaced openings, a projectile to be projected over the game board for passage through any one of the openings, and a row of barriers mounted on the game board forwardly of the partition and in close proximity thereto and arranged at opposite sides of the openings to render the passage of the projectile through the openings more difficult.

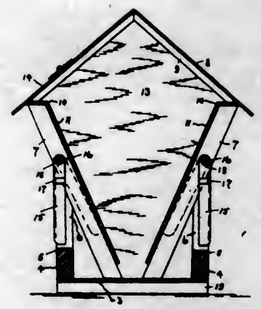
1,346,783. VALVE-GRINDING TOOL. CARL GIESER and GLENN SHAFFER, Des Moines, Iowa; said Shaffer assignor to said Gieser. Filed Feb. 4, 1920. Serial No. 356,340. 3 Claims. (Cl. 51—4.)

1. In a device of the character described, a casing having a plurality of pivoted fingers on its lower end, said fingers being designed to grip and engage a movable valve closure member, a centering device slidably mounted upon said casing, said centering device comprising a cone-shaped member adapted to extend partially into the valve stem opening of a valve casing, vertically adjusted bars fixed to said cone-shaped member, said bars being provided adjacent to their lower ends with a set screw, whereby the set screws may be tightened to engage the valve casing and hold said centering device in position, whereby it will



form a bearing for said casing when the casing is being rotated in order to grind the movable valve closure members in the valve seat.

1,346,784. SELF-FEEDER FOR SWINE. CLAYTON R. HAMILTON, Panora, Iowa. Filed Apr. 8, 1919. Serial No. 288,616. 1 Claim. (Cl. 119—52.)

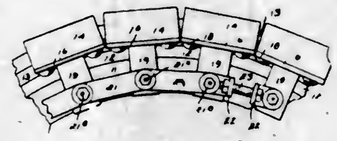


In a feeder receptacle for swine, the combination of an elongated container having downwardly convergent side walls including wall studding and having a floor substantially rectangular in plan projecting outwardly from said side walls, a pair of plates upon the floor outwardly of the side walls of the container, upright braces disposed upon and at longitudinal intervals of the side plates, said braces being connected with the studding of the side walls and providing a plurality of feed apertures in communication with the container, horizontal pivot-pins traversing the studding of the side walls above and in the vertical plane of said braces, a plurality of doors between said braces each being loosely mounted on a pivot-pin and provided with lugs between its top and bottom normally engaging the studding of the side walls, and a plurality of washers on the pivot-pins between the doors and studding of the side walls.

1,346,785. NON-SKID DEVICE. ELMER A. HENSAL, Panora, Iowa. Filed Aug. 11, 1919. Serial No. 316,899. 1 Claim. (Cl. 152—3.)

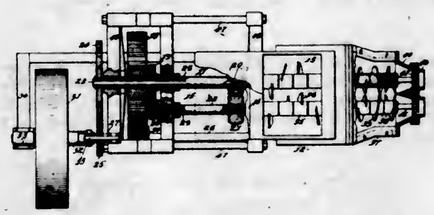
In a non-skid device, a series of tread members arranged successively circumferentially around the tread portion of a tire, said tread members each having a recess formed on their inner surface, the recess being designed to receive the tread portion of the tire and thus prevent lateral movement of the tread member relative to the tire,

each of said tread members being provided with spaced members arranged to extend radially inwardly on the opposite sides of a tire, said spaced members each having loops formed on their inner ends, links for pivotally and slidably connecting said members on each side of a tire



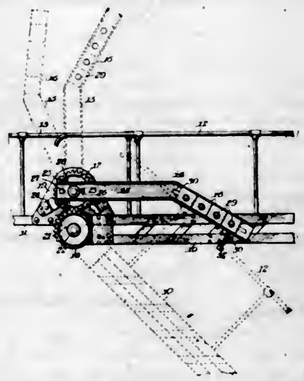
together, said links having elongated slots for allowing limited movement of the parts, a cable on each side of the wheel adapted to be received in said loops, whereby the tightening of said cable will draw the inner ends of said spaced members closer together and thus hold the tread device onto the tread portion of a tire.

1,346,786. MACHINE FOR FORMING CLAY TOWER-SPIRALS. BENJAMIN MIFFLIN HOOD, Atlanta, Ga. Filed Nov. 2, 1918. Serial No. 260,834. 3 Claims. (Cl. 25—14.)



3. A machine of the character described comprising a pair of hollow shafts mounted in bearings, a conveyer housing through which the same extends, conveyers mounted on the shafts and within the housing, a second hollow shaft mounted within the first hollow shaft and filled with oil, spirals connected thereon and operating at the end of the conveyer housing, a plurality of gears mounted on the inner and outer hollow shafts for rotating the same at different speeds, substantially as specified.

1,346,787. FIRE-ESCAPE. JOSEPH M. KAYL, Chicago Ill. Filed Sept. 4, 1917. Serial No. 189,527. 4 Claims. (Cl. 227—5.)



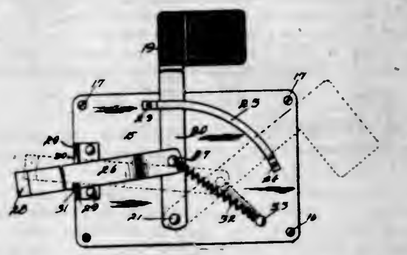
1. In a fire escape the combination of a ladder and a supporting structure therefor, said ladder being pivotally connected at an end to the supporting structure so as to permit it to swing to a raised or lowered position and being arranged with respect to the supporting structure so as to permit of a direct passage from the supporting structure to the pivoted end of the ladder for the application of weight to cause the lowering of the ladder when the ladder is raised, and means for raising the ladder from its lowered position after the removal of the weight, said means being pivoted at the pivoted end of the ladder and including a weighted arm which extends toward the free end of the ladder and which is arranged substantially parallel to the ladder when said ladder is in raised position.

1,346,788. PLUMBING CONNECTION. GEORGE MEIER, San Francisco, Calif. Filed Apr. 21, 1919. Serial No. 291,763. 7 Claims. (Cl. 277—69.)



1. In a plumbing connection, the combination with a plurality of wash trays of a hot water connection; a cold water connection; a third connection connecting the hot and cold water connections; and means mounted within the last mentioned connection for opening the same to permit the passage of hot and cold water therefrom into any one of the trays.

1,346,789. MAIL-BOX SIGNAL DEVICE. JOHN H. RUNKLE, Jr., Rossie, Iowa. Filed Feb. 10, 1920. Serial No. 357,680. 1 Claim. (Cl. 232—34.)

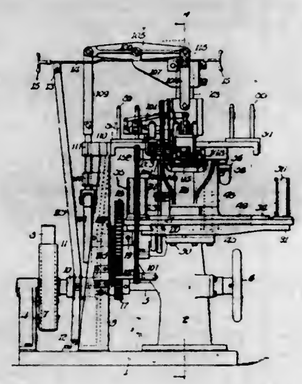


In a device of the character described, a support adapted to be fixed to a mail box having a signal member pivotally mounted thereon, a guide device for limiting the pivotal movement of said last described member in either direction, a spring having one end fixed to the signal member and its other end to the support for yieldingly holding the signal member in its inoperative position, a link having one end pivoted to the signal member intermediate of its ends and having the free end formed so that it provides a hand engaging portion, whereby it may be gripped for moving the signal member to the other limit of its movement, a guide device for said link including a flange having a slot therein, extended forwardly from said support, said link being provided with a notch in its lower side and adapted to be slidably received in said slot, whereby movement of the link to position where the notch and slot register with each other will cause the notch to engage the flange and lock the link against accidental movement in position where the signal member will be rendered operative.

1,346,790. LACE-MACHINE-CARRIAGE-THREADING MECHANISM. WALTER R. SCOTT, Philadelphia, Pa. Filed May 4, 1916. Serial No. 95,508. 22 Claims. (Cl. 66—6.)

22. In lace machine carriage threading mechanism, the combination with a frame; of a shaft supported by said

frame; a rotary carrier mounted to rotate coaxially about said shaft; a second rotary carrier, arranged to rotate eccentrically about said shaft; means on said first carrier arranged to hold carriages containing bobbins, singly; means on said second carrier, arranged to hold carriages and bobbins separately; the carriage holding means in said first carrier being adapted to coöperate with both the carriage and bobbin holding means in said second carrier in



one position of relative rotation of said carriers; coöperative means arranged to relatively turn said carriers, step by step, whereby, the carriage holding means in the first carrier is adapted to coöperate with the carriage and bobbin holding means in the second carrier; and means arranged to direct both carriages and bobbins from the holding means in said first carrier to the holding means in said second carrier, when in coöperative relation therewith.

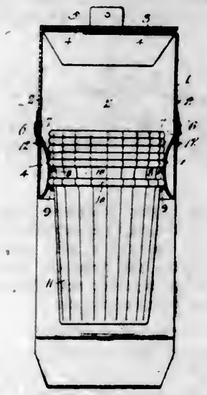
1,346,791. THERMO SAFETY-VALVE. KENNETH F. TRIGGS, Dayton, Ohio. Filed Sept. 24, 1919. Serial No. 326,108. 4 Claims. (Cl. 137—35.)



3. A safety valve, comprising a housing adapted to be set in a pipe line and to be in contact with the fluid in said line, said housing being provided with an escape passage, a valve controlling said passage, and thermally responsive means controlling said valve, whereby the valve is moved to open the escape passage when a desired minimum temperature is reached to drain the pipe line, said thermally responsive means further functioning to move said valve to open said escape passage when a certain maximum temperature is reached.

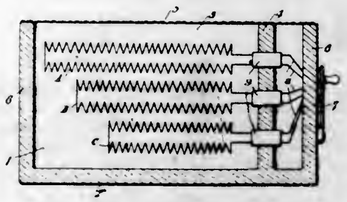
1,346,792. CARTON FOR CUPS AND SIMILAR ARTICLES. SIMON BERGMAN, New York, N. Y. Filed July 10, 1919. Serial No. 309,817. 4 Claims. (Cl. 206—56.)

2. A carton of the class described, provided with sides and end flaps, two of said end flaps being curved upwardly and inwardly, and then upwardly and outwardly, and brought into engagement with their adjacent sides and



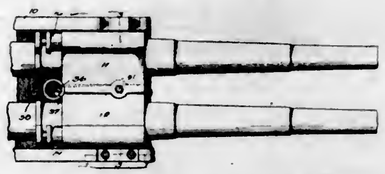
a tab in each of said inwardly disposed end flaps adapted to support a stack of paper cups or similar vessels.

1,346,793. ELECTRIC HEATER. WILLIAM O. BUNNELL and QUINCY A. GATES, Wilkes-Barre, Pa.; Rose P. Bunnell executrix of said William O. Bunnell, deceased. Filed Mar. 27, 1916. Serial No. 87,042. 1 Claim. (Cl. 219—20.)



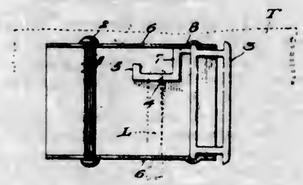
A heater of the class described including a support for the articles to be heated, a medium capable of radiating heat to a relatively great degree located in relatively close proximity to the support, a medium capable of radiating heat to a less degree and located at a relatively greater distance from the support, and means for independently or collectively causing heat to be imparted to said radiating media.

1,346,794. ORDNANCE. EDWARD A. MUIR, deceased, Washington, D. C., by Dora K. Muir, administratrix, Washington, D. C., assignor to the Government of the United States. Filed Feb. 1, 1919. Serial No. 274,830. 21 Claims. (Cl. 89—37.)



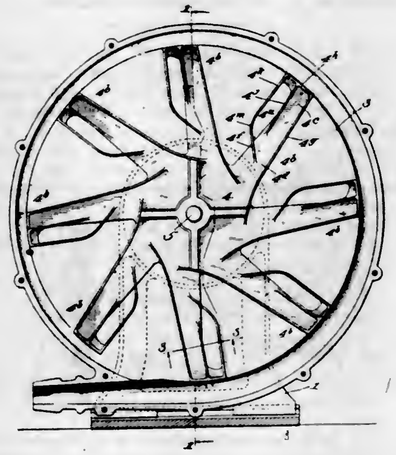
1. In a gun mount, a carriage having a two part gun slide, a pair of guns mounted in said gun slide, and means associated with the two parts of the slide permitting relative movement in elevation of said guns.

1,346,795. BELT-BUCKLE. CHARLES A. REULE, Cincinnati, Ohio. Filed Mar. 20, 1920. Serial No. 367,845. 2 Claims. (Cl. 24—73.)



1. In a belt buckle, a front plate having a top flange, and a hook rigidly secured to the flange and depending therefrom, said hook being spaced from the front plate and having one end spaced below the flange.

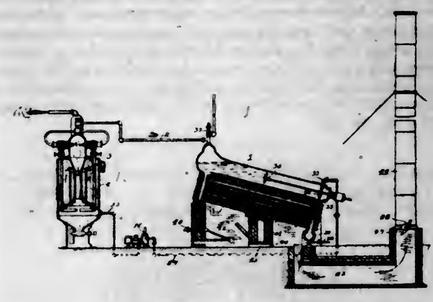
1,346,796. BLOWER. RUDOLF ROSNER, Chicago, Ill. Filed Jan. 23, 1920. Serial No. 353,467. 5 Claims. (Cl. 230—11.)



1. In a centrifugal blower, in combination with a case having a central air inlet, a rotor in the case comprising air driving arms whose width approximately spans the air cavity of the case, and which have on their opposite sides toward the opposing walls of the case air pockets open toward said walls and closed at their outer ends of the arms and open at the inner ends thereof.

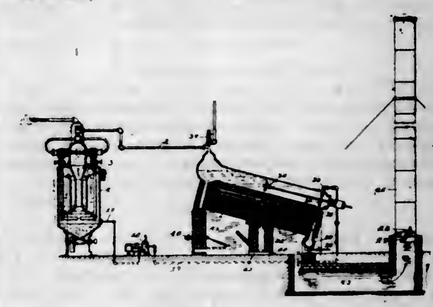
1,346,797. APPARATUS FOR THE CONVERSION OF HYDROCARBON OILS. VICTOR LEE EMERSON, Philadelphia, Pa. Original application filed May 6, 1920, Serial No. 379,358. Divided and this application filed May 6, 1920. Serial No. 379,357. 14 Claims. (Cl. 196—25.)

1. In an apparatus for the conversion of hydrocarbon oils, the combination of a still operable under pressure, an oil receptacle, means for supplying fresh oil to said receptacle, means for subjecting the gaseous products of distillation from said still to impact, and means for



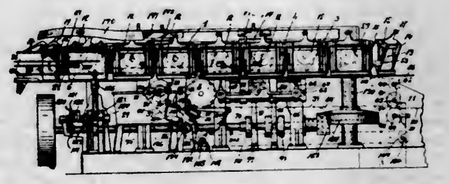
conducting the products of impact into the oil in said receptacle.

1,346,798. PROCESS FOR THE CONVERSION OF HYDROCARBON-OILS. VICTOR LEE EMERSON, Philadelphia, Pa. Original application filed May 6, 1920, Serial No. 379,358. Divided and this application filed May 6, 1920. Serial No. 379,359. 21 Claims. (Cl. 196—25.)



7. The process of conversion of hydrocarbon oils which consists in imparting kinetic energy to a mass of the same, subjecting the said energized mass to impact, repeatedly subjecting the resultant products to impact together with a portion of fresh hydrocarbon oil, subjecting the products of impact thus formed to intimate contact with fresh hydrocarbon oil and drawing off the gaseous products.

1,346,799. BOOK OR PAMPHLET COVERING MACHINE. CHARLES A. JUENGST, Croton Falls, N. Y., assignor to himself and George Juengst, Jr., Croton Falls, N. Y., doing business under the name of George Juengst & Sons. Filed Mar. 19, 1910. Serial No. 550,305. Renewed Nov. 17, 1919. Serial No. 338,527. 1 Claim. (Cl. 11—4.)



Book covering mechanism comprising: a signature gathering mechanism delivering signature groups succes-

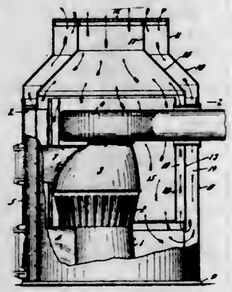
sively, a book covering machine including a plurality of clamps traveling continuously in one direction for receiving and clamping successive signature groups while on the run, means intermediate said signature gathering mechanism and said clamps for transferring each signature group from the gathering mechanism to a successive clamp while on the run, means for registering the signature groups in the clamps, and means for automatically closing said clamps successively on said signature groups while on the run.

1,346,800. COMBINED VENTILATOR AND SHADE. VICTOR M. ALLEN, Shinglehouse, Pa. Filed Sept. 11, 1917. Serial No. 190,843. 2 Claims. (Cl. 20—56.)



1. A window sash including a sliding unbroken pane, a plurality of pivotally mounted transparent panels wholly disposed at one side of the pane, and when closed forming therewith a double window, and means for adjusting said panels to either open or closed position.

1,346,801. FURNACE. WILLIAM J. DOYLE and JUSTUS J. WOLLENHAUPT, Cincinnati, Ohio, assignors to The Monitor Stove & Range Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 23, 1915. Serial No. 16,482. 2 Claims. (Cl. 126—99.)



1. The combination of a furnace body comprising an ash-pit, combustion chamber and radiator, having laterally extending ash and feed snouts and products of combustion conduit, respectively, three separated casings surrounding said heater body, a single superposed floor register with which the upper ends of said casings communicate, to constitute an outer, downward, cold-air intake and passage and an inner, upward hot-air passage and outlet, the outer casing extending to the furnace base to inclose the heater, the two inner casings providing at the bottom communication between the outer cold-air passage and the heating spaces between the two inner casings and between the inner casing and the heater body, a terminal plate for the ash and feed snouts connected to the outer casing, the two inner casings having cut-out portions constituting a feed snout pocket, the cold-air passage formed by the two outer casings, being separated from said pocket to throw the heat radiated from the feed snout into an ascending hot-air passage.

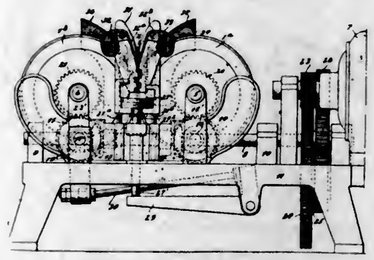
1,346,802. MERCERIZATION. SAMUEL MANSFIELD JONES, North Adams, Mass., assignor to Arnold Print Works, North Adams, Mass., a Corporation of Massachusetts. Filed May 12, 1920. Serial No. 380,889. 4 Claims. (Cl. 8—20.)

1. The method of treating textile fabrics composed of mercerizable cellulosic fibers intermixed with artificial silk filaments of viscose, for the purpose of mercerizing such cellulosic fibers without injury to the viscose silk, by subjecting the composite fabric thus constituted to a process of mercerization wherein the solution of caustic alkali is modified by the addition thereto of glycerin.

1,346,803. MERCERIZATION. SAMUEL MANSFIELD JONES, North Adams, Mass., assignor to Arnold Print Works, North Adams, Mass., a Corporation of Massachusetts. Filed May 12, 1920. Serial No. 380,890. 4 Claims. (Cl. 8—20.)

1. The method of treating textile fabrics composed of mercerizable cellulosic fibers intermixed with artificial silk filaments of viscose, for the purpose of mercerizing such cellulosic fibers without injury to the viscose silk, by subjecting the composite fabric thus constituted to a process of mercerization wherein the solution of caustic alkali is modified by the addition thereto of monacetin.

1,346,804. KNIFE-CONTROLLING MECHANISM FOR CUTLERY-RENOVATING MACHINES. CHARLES H. J. DILG, New York, N. Y. Filed Oct. 30, 1915, Serial No. 58,901. Renewed Dec. 24, 1919. Serial No. 347,197. 20 Claims. (Cl. 51—6.)

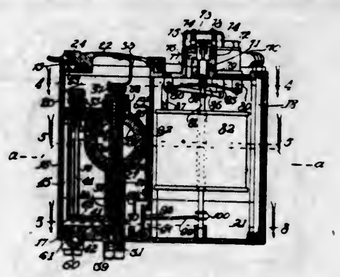


2. In a knife polishing machine, in combination with the polishing members, a gate controlling the admission of a knife to the polishing members and comprising a support disposed in front of the polishing members, and a movable closure carried by the support having a bias to a position opposite the median line of the polishing members and movable therefrom by the knife as it is inserted between the polishing members.

REISSUES.

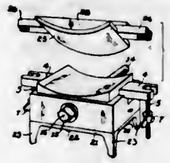
14,912. VACUUM-FEED CARBURETER. PIERRE P. GILLES, Chicago, Ill., assignor, by mesne assignments, to Gilles Fuel Feeding Company, Holyoke, Mass., a Corporation of Massachusetts. Filed Sept. 16, 1919. Serial No. 324,241. Original No. 1,240,842, dated Sept. 25, 1917, Serial No. 124,521, filed Oct. 9, 1916. 23 Claims. (Cl. 158—36.)

1. A vacuum feed carbureter, comprising a carbureter fuel chamber, atomizing devices in said chamber, adapted to be fed therefrom, a fuel supply chamber communicating with the carbureter chamber to feed the latter by gravity, a valve controlling the communication between said chambers, a float in the supply chamber, means controlled by



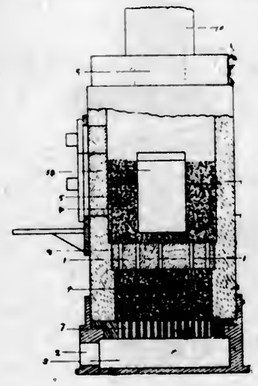
the float to draw fuel into the supply chamber, and means operable by the rise and fall of the float to open and close said valve, all constructed and arranged so that the level in both of said chambers is controlled by a single float.

14,913. VULCANIZER. JAMES C. HEINTZ and GEORGE RUF, Cleveland, Ohio; said Ruf assignor to said Heintz. Filed Mar. 18, 1920. Serial No. 366,983. Original No. 1,262,598, dated Apr. 9, 1918, Serial No. 95,558, filed May 5, 1916. 5 Claims. (Cl. 18—18.)



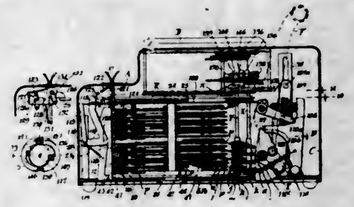
1. A vulcanizer comprising a hollow fluid-tight casing having a vent opening and provided with a working surface, the side of the casing opposite said surface having a recess, an electric heating element within said recess, a plate for closing said recess, said plate being provided with legs, means for clamping an object in operative relation to the working surface, and a plug fitted into said vent, said plug being formed with a bore closed on its inner side by a fracturable membrane.

14,914. METALLURGICAL FURNACE. SAMUEL M. HOWELL, Zanesville, Ohio. Filed June 5, 1920. Serial No. 387,790. Original No. 1,337,703, dated Apr. 20, 1920, Serial No. 308,026, filed July 1, 1919. 2 Claims. (Cl. 158—7.)



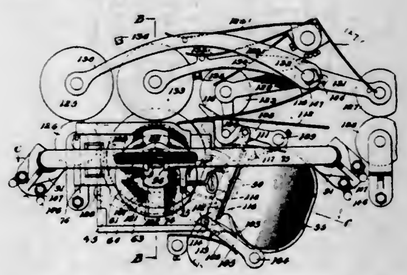
1. In a metallurgical furnace using air and gas or a hydrocarbon vapor as fuel, the combination of a mixing chamber containing a body of metallic chips with a refractory upper retaining plate substantially as set forth and described.

14,915. RECORDING MECHANISM. JOHN ROYDEN PEIRCE, New York, N. Y. Filed Mar. 24, 1920. Serial No. 368,413. Original No. 1,260,705, dated Mar. 26, 1918, Serial No. 489,440, filed Apr. 12, 1909. 55 Claims. (Cl. 234—43.)



14. In a machine of the class described a type carrier and a punching means arranged to advance together to operative positions, corresponding to successive types on said carrier, and means for operating one of said types and said punching means to print a single character and to punch the same character in the form of a plurality of perforations occupying a space the length of which in the direction of the advance of the punching means is greater than the extent of such advance between positions corresponding to two successive types.

14,916. MAIL-MARKING MACHINE AND POSTAGE-METER. ARTHUR H. PITNEY, Wilmette, Ill., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn, a Corporation of Delaware. Filed Mar. 26, 1920. Serial No. 369,121. Original No. 1,273,793, dated July 23, 1918, Serial No. 721,183, filed Sept. 19, 1912. 73 Claims. (Cl. 101—77.)



1. In a mail marking machine, the combination of means arranged to feed mail matter along a certain path, a rotary printing drum located adjacent to said path in position to mark said mail matter, said printing drum being adapted to be removed from said position, and a casing mounted adjacent to said drum and adapted to inclose said drum through the act of removing it from said machine.

2. In a mail marking machine, the combination of means arranged to feed mail matter along a certain path, a rotary printing drum located adjacent to said path in position to mark said mail matter, said printing drum being adapted to be removed from said position, a casing mounted adjacent to said drum and adapted to inclose said drum through the act of removing it from said machine, and means for locking said drum against displacement from said first mentioned position.

3. In a mail marking machine, the combination of means arranged to feed mail matter along a certain path, a rotary printing drum located adjacent to said path in position to mark said mail matter, said printing drum be-

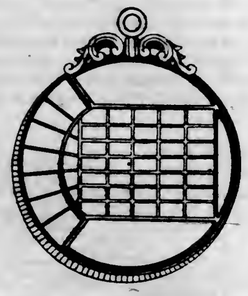
ing adapted to be removed from said position, a casing mounted adjacent to said drum and adapted to inclose said drum through the act of removing it from said machine, and means adapted to lock said drum in said casing.

4. In a mail marking machine, the combination of means arranged to feed mail matter along a certain path, a rotary printing drum located adjacent to said path in position to mark said mail matter, said printing drum being adapted to be removed from said position, a casing mounted adjacent to said drum and adapted to inclose said drum through the act of removing it from said machine, and means adapted to automatically lock said drum in said casing when said head is shifted from said position into said casing.

5. In a mail marking machine, the combination of means arranged to feed mail matter along a certain path, a rotary printing drum located adjacent to said path in position to mark said mail matter, said printing drum being adapted to be removed from said position, a casing mounted adjacent to said drum and adapted to inclose said drum through the act of removing it from said machine, means adapted to lock said drum in said casing, and mechanism for retracting said locking means to permit said drum to be removed from said casing.

DESIGNS.

55,735. WATCH-FOB, LOCKET, OR PENDANT. HENRY ALLEN, Springfield Gardens, N. Y. Filed Jan. 18, 1919. Serial No. 271,925. Term of patent 7 years.



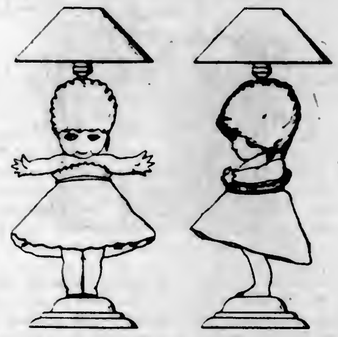
The ornamental design for a watch-fob, locket, or a pendant as shown.

55,736. BADGE. JOHN ARCHER, San Jose, Calif. Filed Mar. 29, 1920. Serial No. 369,757. Term of patent 3½ years.



The ornamental design for a badge as shown.

55,737. LAMP-STAND. HARRY C. ATHERLY, San Francisco, Calif. Filed Apr. 5, 1920. Serial No. 371,492. Term of patent 14 years.



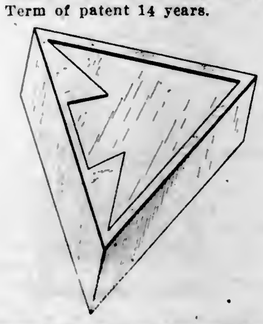
The ornamental design for a lamp stand subtsantially as shown.

55,738. TEAPOT OR SIMILAR ARTICLE OF HOLLOW WARE. GEORGE E. BALL, Bridgeport, Conn., assignor to Whiting Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Mar. 11, 1920. Serial No. 365,073. Term of patent 7 years.



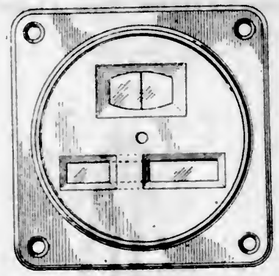
The ornamental design for a teapot or similar article of hollow-ware, as shown.

55,739. AUTO SIGNAL-LIGHT. JOHANNES P. BECKER, Berkeley, Calif. Filed July 22, 1919. Serial No. 312,584. Term of patent 14 years.



The ornamental design for an auto signal light, as shown.

55,740. SPEEDOMETER FACE-PLATE. JOSEPH BERGE, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Jan. 6, 1919. Serial No. 269,951. Term of patent 14 years.



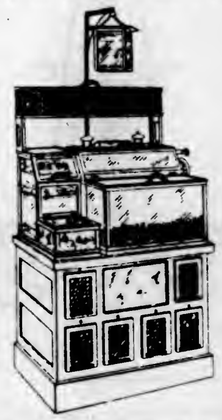
The ornamental design for a speedometer face plate as shown.

55,741. SPEEDOMETER FACE-PLATE. JOSEPH BERGE, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Jan. 6, 1919. Serial No. 269,953. Term of patent 14 years.



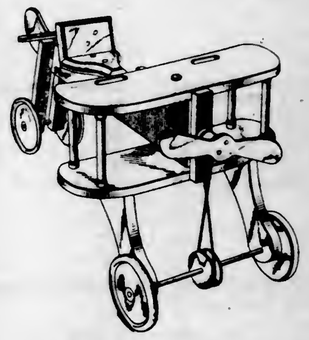
The ornamental design for a speedometer face plate, as shown.

55,742. VENDING-CABINET. EARL C. BOOTH, Indianapolis, Ind., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind., a Corporation. Filed Nov. 10, 1919. Serial No. 337,028. Term of patent 14 years.



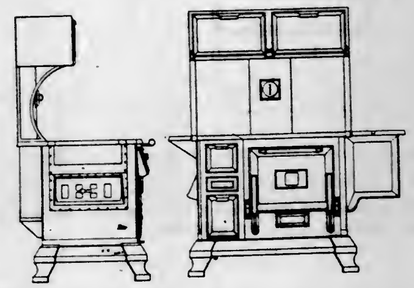
The ornamental design for a vending cabinet, as shown.

55,743. CHILD'S CART. MARCUS J. CARLS and HENRY F. PAUCHA, Los Angeles, Calif. Filed Aug. 23, 1917. Serial No. 187,894. Term of patent 14 years.



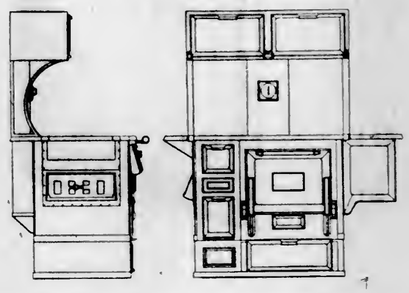
The ornamental design for a child's cart as shown and described.

55,744. RANGE. EDWARD P. COLE, Chicago, Ill., assignor to Cole Manufacturing Company, Chicago, Ill., a Corporation. Filed Dec. 22, 1919. Serial No. 346,805. Term of patent 14 years.



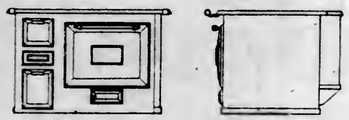
The ornamental design for a range, substantially as shown and described.

55,745. RANGE. EDWARD P. COLE, Chicago, Ill., assignor to Cole Manufacturing Company, Chicago, Ill., a Corporation. Filed Dec. 22, 1919. Serial No. 346,806. Term of patent 14 years.



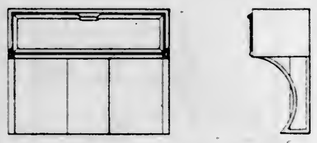
The ornamental design for a range, substantially as shown and described.

55,746. RANGE-BODY. EDWARD P. COLE, Chicago, Ill., assignor to Cole Manufacturing Company, Chicago, Ill., a Corporation. Filed Dec. 22, 1919. Serial No. 346,807. Term of patent 14 years.



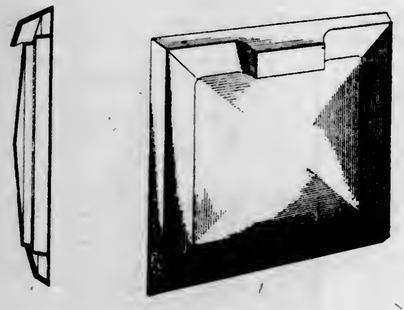
The ornamental design for a range body, substantially as shown and described.

55,747. WARMING-OVEN FOR A RANGE. EDWARD P. COLE, Chicago, Ill., assignor to Cole Manufacturing Company, Chicago, Ill., a Corporation. Filed Dec. 22, 1919. Serial No. 346,808. Term of patent 14 years.



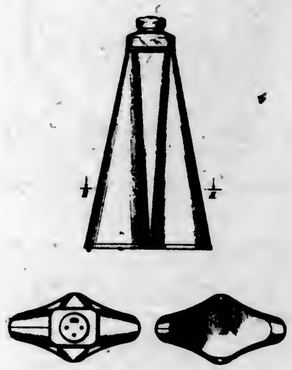
The ornamental design for a warming oven for a range, substantially as shown and described.

55,748. STOVE-DOOR OR SIMILAR ARTICLE. EDWARD P. COLE, Chicago, Ill., assignor to Cole Manufacturing Company, Chicago, Ill., a Corporation. Filed Dec. 22, 1919. Serial No. 346,809. Term of patent 14 years.



The ornamental design for a stove door or similar article, substantially as shown and described.

55,749. SIFTER-TOP CAN OR SIMILAR RECEPTACLE. MARTHA HALOWELL CONNOR, Baltimore, Md., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,496. Term of patent 7 years.



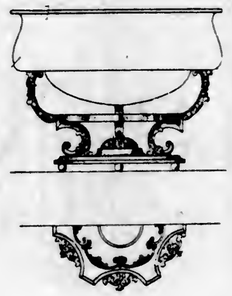
The ornamental design for a sifter top can or similar receptacle, as shown.

55,750. SIFTER-TOP CAN OR SIMILAR RECEPTACLE. MARTHA HALOWELL CONNOR, Baltimore, Md., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,497. Term of patent 7 years.



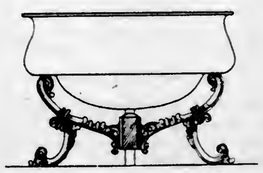
The ornamental design for a sifter top can or similar receptacle, as shown.

55,751. AQUARIUM-STAND. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 29, 1920. Serial No. 354,931. Term of patent 7 years.



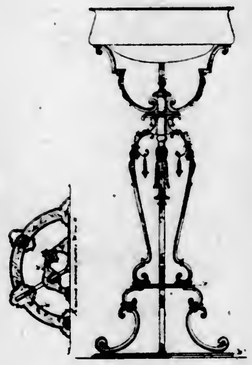
The ornamental design for an aquarium stand, as shown.

55,752. AQUARIUM-STAND. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 29, 1920. Serial No. 354,932. Term of patent 7 years.



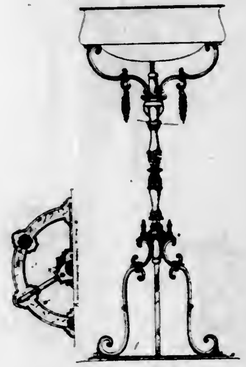
The ornamental design for an aquarium stand, as shown.

55,753. AQUARIUM-STAND. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 29, 1920. Serial No. 354,934. Term of patent 7 years.



The ornamental design for an aquarium stand, as shown.

55,754. AQUARIUM-STAND. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 29, 1920. Serial No. 354,935. Term of patent 7 years.



The ornamental design for an aquarium stand, as shown.

55,755. COMBINED HATPIN AND POINT-PROTECTOR. THOMAS DELIKAT, Newark, N. J. Filed Sept. 25, 1919. Serial No. 326,400. Term of patent 3½ years.



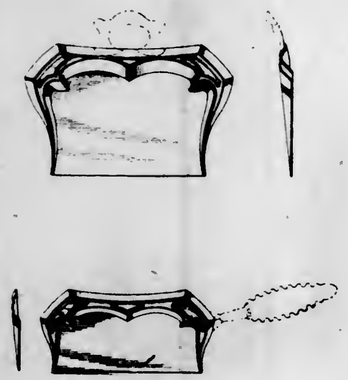
The ornamental design for a combined hatpin and point protector, as shown.

55,756. INDIVIDUAL ARTICLE-HOLDER. PATRICK F. DENNING, Cleveland, Ohio. Filed Aug. 26, 1919. Serial No. 320,076. Term of patent 14 years.



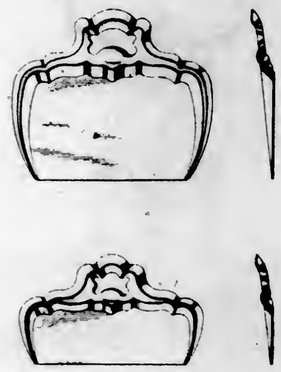
The ornamental design for an individual article holder substantially as shown.

55,757. CRUMB SET. THOMAS BARTON EASBY, Brooklyn, N. Y., assignor to New York Stamping Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 27, 1918. Serial No. 264,458. Term of patent 14 years.



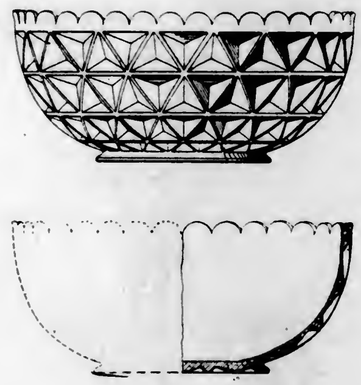
The ornamental design for a crumb set, as shown.

55,758. CRUMB SET. THOMAS BARTON EASBY, Brooklyn, N. Y., assignor to New York Stamping Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 27, 1918. Serial No. 264,459. Term of patent 14 years.



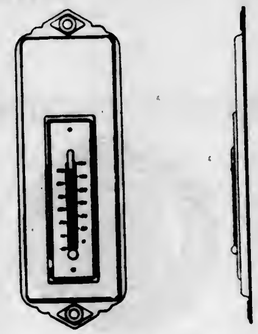
The ornamental design for a crumb set, as shown.

55,759. ARTICLE OF GLASSWARE. PHILLIP EBELING, Washington, Pa., assignor to Imperial Glass Company, Bellaire, Ohio, a Corporation of Ohio. Filed May 19, 1920. Serial No. 382,604. Term of patent 14 years.



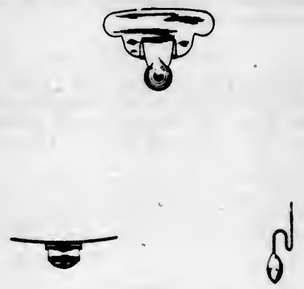
The ornamental design for an article of glassware, as shown.

55,760. THERMOMETER. CLAUS E. ERICKSON, Des Moines, Iowa. Filed Dec. 16, 1919. Serial No. 345,404. Term of patent 7 years.



The ornamental design for a thermometer, as shown.

55,761. COMBINED COLLAR-BUTTON AND TIE-SLIDE OR SIMILAR ARTICLE. HENRY ESCH, Jr., Manitowoc, Wis. Filed Apr. 19, 1920. Serial No. 375,176. Term of patent 14 years.



The ornamental design for a combined collar button and tie slide or similar article as shown.

55,762. CASING FOR A COMBINED AIR AND WATER DISPENSER. ARNO A. EWALD, Oakfield, Wis. Filed Nov. 7, 1919. Serial No. 336,480. Term of patent 14 years.



The ornamental design for a casing for a combined air and water dispenser, as shown.

55,763. TALKING-MACHINE. JOHN A. FERN, Cincinnati, Ohio, assignor to E. H. McConnell, trustee, Memphis, Tenn. Filed May 14, 1920. Serial No. 381,471. Term of patent 14 years.



The ornamental design for a talking machine, as shown.

55,764. TALKING-MACHINE. JOHN A. FERN, Cincinnati, Ohio, assignor to E. H. McConnell, trustee, Memphis, Tenn. Filed May 14, 1920. Serial No. 381,472. Term of patent 14 years.



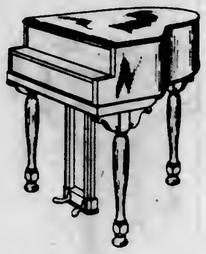
The ornamental design for a talking machine, as shown.

55,765. TALKING-MACHINE. JOHN A. FERN, Cincinnati, Ohio, assignor to E. H. McConnell, trustee, Memphis, Tenn. Filed May 14, 1920. Serial No. 381,473. Term of patent 14 years.



The ornamental design for a talking machine, as shown.

55,766. TALKING-MACHINE. JOHN A. FERN, Cincinnati, Ohio, assignor to E. H. McConnell, trustee, Memphis, Tenn. Filed May 14, 1920. Serial No. 381,474. Term of patent 14 years.



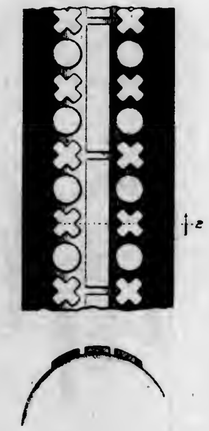
The ornamental design for a talking machine, as shown.

55,767. TALKING-MACHINE. JOHN A. FERN, Cincinnati, Ohio, assignor to E. H. McConnell, trustee, Memphis, Tenn. Filed May 14, 1920. Serial No. 381,475. Term of patent 14 years.



The ornamental design for a talking machine, as shown.

55,768. AUTOMOBILE-TIRE. ALBERT S. FOX, Chicago, Ill. Filed Dec. 3, 1919. Serial No. 342,279. Term of patent 7 years.



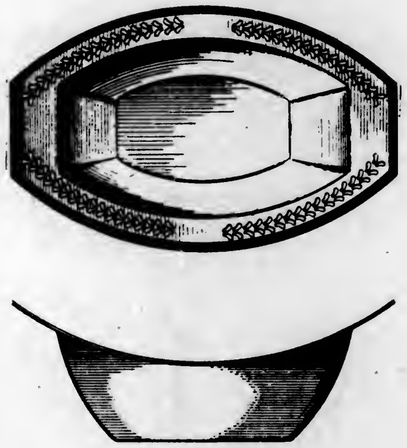
The ornamental design for an automobile tire, as shown.

55,769. PIN, EMBLEM, OR ARTICLE OF SIMILAR NATURE. ALICE M. FRENCH, Indianapolis, Ind. Filed Apr. 21, 1919. Serial No. 291,765. Term of patent 3½ years.



The ornamental design for a pin, emblem, or article of similar nature as shown.

55,770. BREAD-TRAY OR SIMILAR ARTICLE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 20, 1920. Serial No. 360,166. Term of patent 14 years.



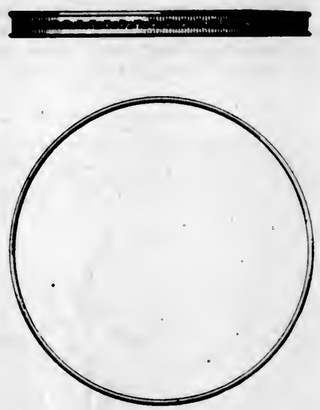
The ornamental design for a bread tray or similar article, as shown.

55,771. GALLERY-MOUNT FOR HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 20, 1920. Serial No. 360,169. Term of patent 14 years.



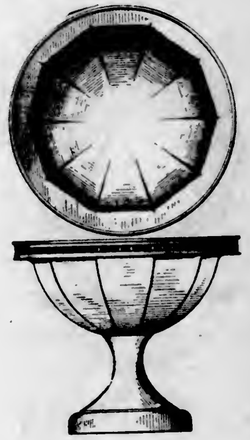
The ornamental design for a gallery mount for hollow tableware, as shown.

55,772. GALLERY-MOUNT FOR HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 20, 1920. Serial No. 360,170. Term of patent 14 years.



The ornamental design for a gallery mount for hollow tableware, as shown.

55,773. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 20, 1920. Serial No. 360,171. Term of patent 14 years.



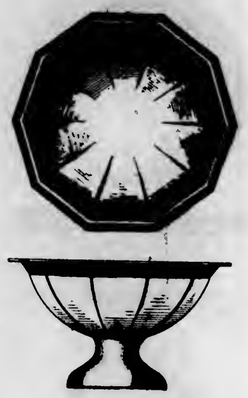
The ornamental design for an article of hollow tableware, as shown.

55,774. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 20, 1920. Serial No. 360,172. Term of patent 14 years.



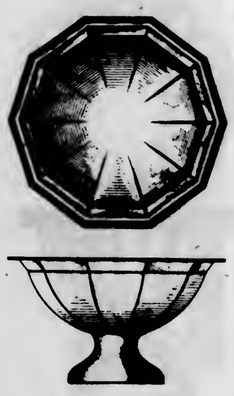
The ornamental design for an article of hollow tableware, as shown.

55,775. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 20, 1920. Serial No. 360,173. Term of patent 14 years.



The ornamental design for an article of hollow tableware, as shown.

55,776. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. N. Y., a Firm. Filed Feb. 20, 1920. Serial No. 360,174. Term of patent 14 years.



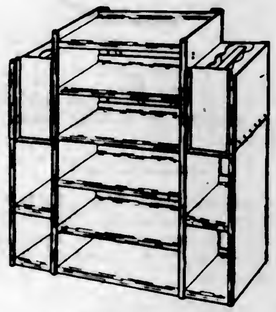
The ornamental design for an article of hollow tableware, as shown.

55,777. LIGHT COVER GLASS. HENRY PHELPS GAGE and EMILIO PASCUCCI, Corning, N. Y. Filed Apr. 19, 1920. Serial No. 375,180. Term of patent 14 years.



The ornamental design for a light cover glass, as shown.

55,778. DISPLAY-RACK. FRANCIS W. GIBSON, West Roxbury, Mass. Filed Apr. 23, 1920. Serial No. 376,148. Term of patent 7 years.



The ornamental design for a display rack, as shown.

55,779. LIGHTING-GLOBE. EDWIN B. GILLINDER, Port Jervis, N. Y., assignor to Gillinder Brothers, Port Jervis, N. Y., a Corporation of New York. Filed Apr. 29, 1919. Serial No. 293,573. Term of patent 7 years.



The ornamental design for a lighting globe substantially as shown.

55,780. LIGHTING-GLOBE. EDWIN B. GILLINDER, Port Jervis, N. Y., assignor to Gillinder Brothers, Port Jervis, N. Y., a Corporaton of New York. Filed Apr. 29, 1919. Ser. No. 293,574. Term of patent 7 years.



The ornamental design for a lighting globe substantially as shown.

55,781. HANDS OF A TIMEPIECE. FRANCIS A. GOODROW, Elgin, Ill., assignor to Elgin National Watch Company, Elgin, Ill., a Corporation of Illinois. Filed Nov. 6, 1919. Serial No. 336,179. Term of patent 14 years.



The ornamental design for the hands of a timepiece, as shown.

55,782. HANDS OF A TIMEPIECE. FRANCIS A. GOODROW, Elgin, Ill., assignor to Elgin National Watch Company, Elgin, Ill., a Corporation of Illinois. Filed Nov. 6, 1919. Serial No. 336,180. Term of patent 14 years.



The ornamental design for the hands of a timepiece, as shown.

55,783. HANDS OF A TIMEPIECE. FRANCIS A. GOODROW, Elgin, Ill., assignor to Elgin National Watch Company, Elgin, Ill., a Corporation of Illinois. Filed Nov. 6, 1919. Serial No. 336,181. Term of patent 14 years.



The ornamental design for the hands of a timepiece, as shown.

55,784. HANDS OF A TIMEPIECE. FRANCIS A. GOODROW, Elgin, Ill., assignor to Elgin National Watch Company, Elgin, Ill., a Corporation of Illinois. Filed Nov. 6, 1919. Serial No. 336,182. Term of patent 14 years.



The ornamental design for the hands of a timepiece, as shown.

55,785. HANDS OF A TIMEPIECE. FRANCIS A. GOODROW, Elgin, Ill., assignor to Elgin National Watch Company, Elgin, Ill., a Corporation of Illinois. Filed Nov. 6, 1919. Serial No. 336,183. Term of patent 14 years.



The ornamental design for the hands of a timepiece, as shown.

55,786. HANDS OF A TIMEPIECE. FRANCIS A. GOODROW, Elgin, Ill., assignor to Elgin National Watch Company, Elgin, Ill., a Corporation of Illinois. Filed Feb. 11, 1920. Serial No. 357,815. Term of patent 14 years.



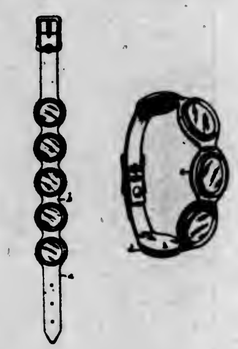
The ornamental design for the hands of a timepiece, as shown.

55,787. RAINCOAT. BARNET GREENBERG, Chicago, Ill. Filed Jan. 20, 1919. Serial No. 272,210. Term of patent 7 years.



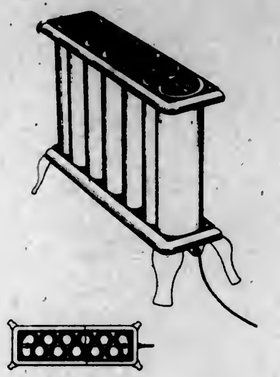
The ornamental design for a raincoat, as shown.

55,788. NOVELTY PICTURE-BRACELET. JOHN B. GRIFFIN, Newington, Conn. Filed Oct. 17, 1919. Serial No. 331,487. Term of patent 7 years.



The ornamental design for a novelty picture bracelet, as shown in the drawings.

55,789. ELECTRIC HEATER. WILLIS W. HALE, Cleveland, Ohio. Filed Jan. 31, 1920. Serial No. 355,440. Term of patent 14 years.



The ornamental design for an electric heater as shown.

55,790. EMBLEM, PIN, BUTTON, WATCH-CHARM, MEDAL, OR SIMILAR ARTICLE. EDWIN C. HEATHCOTE, Brooklyn, N. Y. Filed Mar. 7, 1919. Serial No. 281,313. Term of patent 3½ years.



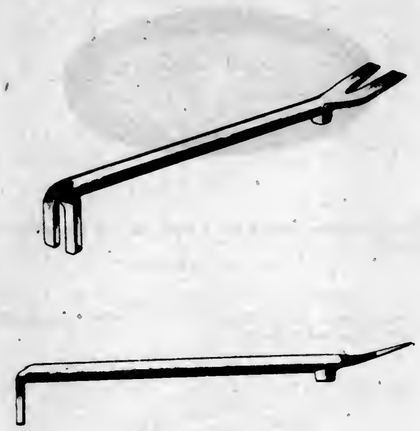
The ornamental design for an emblem, pin, button, watch-charm, medal, or similar article, as shown.

55,791. INTERNALLY-HEATED FLATIRON. HARRY G. HECKMANN, Binghamton, N. Y. Filed Oct. 8, 1919. Serial No. 329,374. Term of patent 7 years.



The ornamental design for an internally heated flatiron substantially as shown and described.

55,792. AUTOMOBILE-TOOL. PATRICK LEE HUDGINS Decatur, Ga. Filed Mar. 5, 1920. Serial No. 368,567 Term of patent 14 years.



The ornamental design for an automobile tool as shown.

55,793. LIGHT-FILTER. BEATRICE IRWIN, New York, N. Y. Filed Apr. 12, 1920. Serial No. 373,404. Term of patent 7 years.



The ornamental design for a light filter substantially as shown.

55,794. PORCUPINE TOOTHPICK-HOLDER. ARISTIDE JARDELLA, New York, N. Y. Filed Oct. 23, 1919. Serial No. 333,135. Term of patent 3½ years.



The ornamental design for a porcupine tooth-pick holder, as shown and described.

55,795. STATUETTE OR SIMILAR ARTICLE. CLIFFORD E. JOHNSTON, St. Louis, Mo., assignor of one-half to Charles T. Edwards, St. Louis, Mo. Filed Feb. 16, 1920. Serial No. 359,186. Term of patent 7 years.



The new, original and ornamental design for a statuette or similar article, as shown.

55,796. SUPPORT. HENRY KAPNECK, Washington, D. C. Filed Apr. 16, 1920. Serial No. 374,480. Term of patent 7 years.



The ornamental design for a support, as shown.

55,797. SUPPORT. HENRY KAPNECK, Washington, D. C. Filed May 15, 1920. Serial No. 381,751. Term of patent 7 years.





The original design for a support, as shown.

55,798. EMBLEM, BANNER, OR ARMBAND. ELMER A. KLAPP, New York, N. Y. Filed Mar. 4, 1918. Serial No. 220,401. Term of patent 3½ years.



The ornamental design for an emblem, banner, or armband as shown.

55,799. HERO-EMBLEM PIN OR BUTTON. ELMER A. KLAPP, New York, N. Y. Filed Mar. 4, 1918. Serial No. 220,402. Term of patent 3½ years.



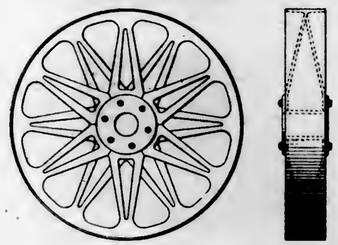
The ornamental design for a hero emblem pin or button as shown.

55,800. MEMORIAL TABLET. JACOB R. KLEPSER, Brady, Mont. Filed Mar. 17, 1919. Serial No. 283,268. Term of patent 7 years.



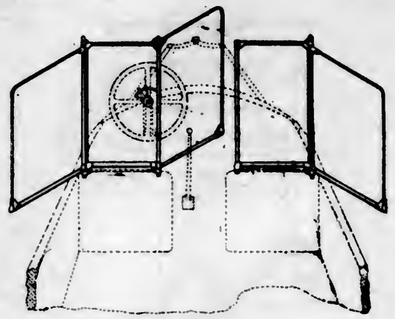
The ornamental design for a memorial tablet, as shown.

55,801. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed May 15, 1920. Serial No. 381,759. Term of patent 14 years.



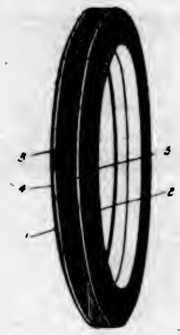
The ornamental design for a metal wheel as shown.

55,802. WINDSHIELD. ARTHUR C. LILLIE, Los Angeles, Calif. Filed Oct. 27, 1919. Serial No. 333,846. Term of patent 14 years.



The ornamental design for a windshield, as shown.

55,803. TIRE-COVER. PAUL M. LOCKWOOD, Kansas City, Mo. Filed Apr. 17, 1919. Serial No. 290,860. Term of patent 14 years.



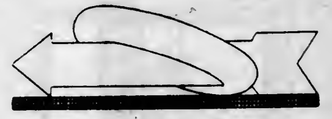
The ornamental design for a tire cover, as shown and described.

55,804. TIRE-COVER. PAUL M. LOCKWOOD, Kansas City, Mo. Filed Apr. 17, 1919. Serial No. 290,861. Term of patent 7 years.



The ornamental design for a tire cover, as shown and described.

55,805. BULLETIN-BOARD. HAROLD J. MAHIN, New York, N. Y., assignor to Syracuse Rubber Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Jan. 14, 1920. Serial No. 351,489. Term of patent 7 years.



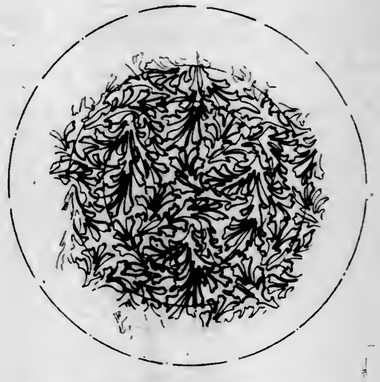
The ornamental design for a bulletin board, as shown.

55,806. DOLL. EDUARDO MALAVARCA, Newark, N. J., assignor to American Ocarina & Toy Co. Inc., Newark, N. J., a Corporation. Filed Oct. 24, 1919. Serial No. 333,132. Term of patent 3½ years.



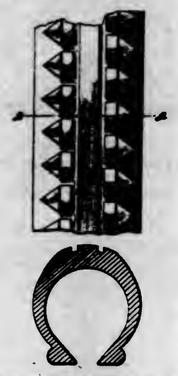
The ornamental design for a doll as shown.

55,807. SURFACE DECORATION FOR CHINA, GLASS, OR LIKE ARTICLES. ADOLF MARTIN, Trenton, N. J. Filed May 3, 1920. Serial No. 378,702. Term of patent 7 years.



The ornamental design for a surface decoration for china, glass, or like articles as shown.

55,808. TREAD OF VEHICLE-TIRES. JOSEPH A. McLANE, Morgantown, W. Va., assignor to The Armorcord Rubber Company, Morgantown, W. Va., a Corporation of West Virginia. Filed Jan. 14, 1920. Serial No. 351,488. Term of patent 14 years.



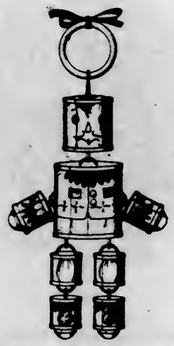
The ornamental design for a tread of vehicle tires, as shown.

55,809. COMBINED VENDING AND DISPLAY STAND. MYER METZGER, Chicago, Ill. Filed Feb. 5, 1920. Serial No. 356,402. Term of patent 7 years.



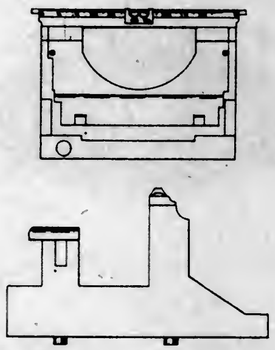
The ornamental design for a combined vending and display stand, as shown.

55,810. FIGURE TOY. LEO MORSE, New York, N. Y. Filed Jan. 19, 1920. Serial No. 352,630. Term of patent 7 years.



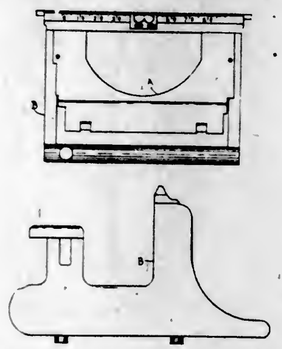
The ornamental design for a figure toy, as shown.

55,811. TYPEWRITER-FRAME. SISSAK K. OUZOUNBOGHOSSIAN, Washington, D. C. Filed Dec. 4, 1919. Serial No. 342,561. Term of patent 3½ years.



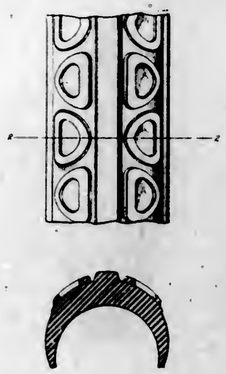
The ornamental design for a typewriter-frame as shown.

55,812. TYPEWRITER-FRAME. SISSAK. K. OUZOUNBOGHOSSIAN, Washington, D. C. Filed Dec. 5, 1919. Serial No. 342,845. Term of patent 3½ years.



The ornamental design for a typewriter-frame as shown.

55,813. TIRE-CASING. WILLIAM C. OWEN, Cleveland, Ohio. Filed Mar. 11, 1920. Serial No. 365,078. Term of patent 7 years.



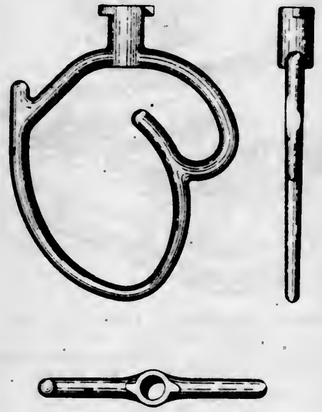
The ornamental design for a tire-casing, as shown.

55,814. SHOE. MENOTTI F. PASQUARELLI, San Francisco, Calif. Filed Feb. 18, 1920. Serial No. 359,701. Term of patent 7 years.



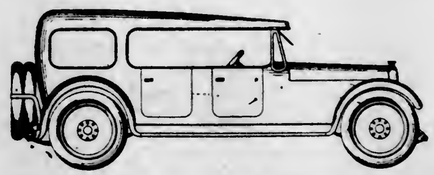
The ornamental design for a shoe, as shown.

55,815. BEATER FOR MIXING-MACHINES. BRYAN D. PINKNEY, Cincinnati, Ohio, assignor to The Triumph Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 8, 1919. Serial No. 343,431. Term of patent 14 years.



The ornamental design for a beater for mixing machines, substantially as shown.

55,816. AUTOMOBILE-BODY. FRANÇOIS RICHARD, Cleveland, Ohio. Filed Apr. 1, 1920. Serial No. 370,574. Term of patent 3½ years.



The ornamental design for an automobile body as shown.

55,817. PUNCH-BOARD. LOUIS REISFELD, Chicago, Ill., assignor to J. W. HOODWIN COMPANY, Chicago, Ill., a Corporation. Filed Apr. 10, 1920. Serial No. 373,009. Term of patent 14 years.



The ornamental design for a punch-board, as shown.

55,818. PORTABLE LAMP. JAMES T. ROBB, Bay Shore, N. Y. Filed Apr. 9, 1920. Serial No. 372,682. Term of patent 3½ years.



The ornamental design for a portable lamp as shown.

55,819. SNAP-HOOK. HARRY J. ROEBUCK, Troy, N. Y. Filed Apr. 17, 1920. Serial No. 374,754. Term of patent 14 years.



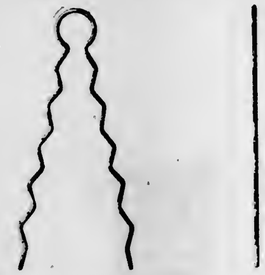
The ornamental design for a snap hook, as shown.

55,820. SWITCH-CASING. RICHARD HAWKE ROGERS and PRIMUS OTTO DORRE, London, England, assignors to S. Smith & Sons (Motor Accessories) Limited, London, England. Filed Feb. 19, 1918. Serial No. 218,178. Term of patent 14 years.



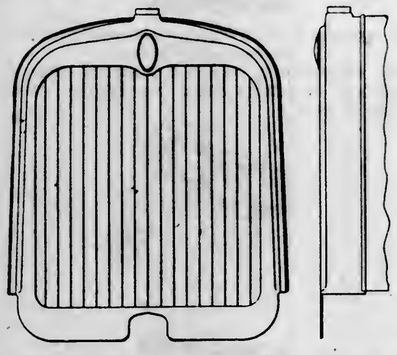
The ornamental design for a switch casing, as shown and described.

55,821. HAIRPIN. ALFRED D. E. SESSIONS, Red Wing, Minn. Filed Mar. 26, 1920. Serial No. 369,111. Term of patent 7 years.



The ornamental design for a hairpin as shown.

55,822. RADIATOR-SHELL FOR MOTOR-VEHICLES. WARREN W. SIMPSON, Indianapolis, Ind., assignor to La Fayette Motors Company, a Corporation of Delaware. Filed Jan. 10, 1920. Serial No. 350,707. Term of patent 14 years.



The ornamental design for a radiator shell for motor vehicles, as shown.

55,823. SCALE-TOWER. WALTER S. SMITH, Columbus, Ohio. Filed Apr. 7, 1920. Serial No. 372,087. Term of patent 14 years.



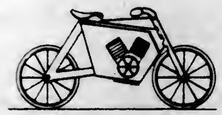
The ornamental design for a scale tower, as shown.

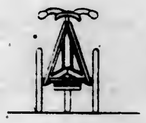
55,824. SCALE. WALTER S. SMITH, Columbus, Ohio. Filed Apr. 7, 1920. Serial No. 372,088. Term of patent 14 years.



The ornamental design for a scale, as shown.

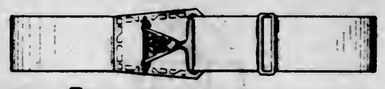
55,825. KIDDIE-CYCLE. ARTHUR P. SPRINGER, Erie, Pa. Filed Mar. 19, 1919. Serial No. 283,678. Term of patent 14 years.





The ornamental design for a kiddie cycle, substantially as shown.

55,826. GARTER. JOHN ANDREW STIH, La Salle, Ill. Filed Feb. 24, 1920. Serial No. 360,993. Term of patent 7 years.



The ornamental design for a garter, as shown.

55,827. PLATE OR SIMILAR ARTICLE. EDGAR E. TATLER, Trenton, N. J., assignor to George F. Bassett and Company, New York, N. Y., a Firm composed of Edward F. Anderson and Frederick H. Doremus. Filed Apr. 2, 1920. Serial No. 370,892. Term of patent 7 years.



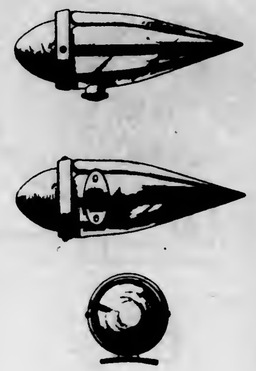
The ornamental design for a plate or similar article, as shown.

55,828. DRINKING-FOUNTAIN BOWL. HALSEY W. TAYLOR, Warren, Ohio. Filed Feb. 15, 1919. Serial No. 277,366. Term of patent 14 years.



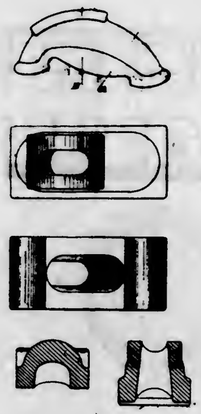
The ornamental design for a drinking fountain bowl, as shown.

55,829. LAMP. CHARLES L. TIPPETT, Washington, D. C., assignor of one-half to Joseph H. McCauley, Washington, D. C. Filed Feb. 6, 1920. Serial No. 356,742. Term of patent 3½ years.



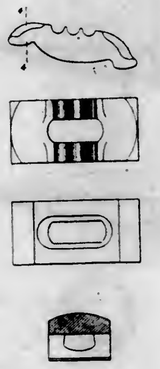
The ornamental design for a lamp, as shown.

55,830. CLAMPING-DOG. CHARLES RALPH TOWNSEND, Birmingham, England, assignor to the Autoset Clamp Company, Limited, Birmingham, England. Filed Mar. 5, 1919. Serial No. 280,865. Term of patent 14 years.



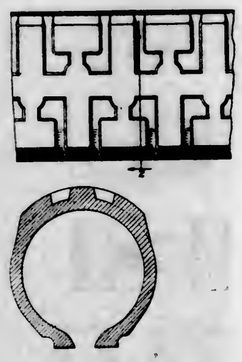
The ornamental design for a clamping dog as shown.

55,831. CLAMPING-DOG. CHARLES RALPH TOWNSEND, Birmingham, England, assignor to the Autoset Clamp Company, Limited, Birmingham, England. Filed Mar. 5, 1919. Serial No. 280,867. Term of patent 14 years.



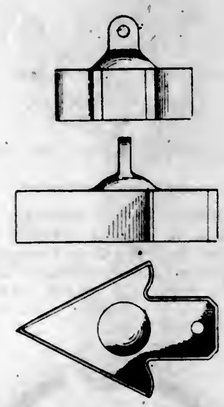
The ornamental design for a clamping dog as shown.

55,832. ELASTIC VEHICLE-TIRE. ELNO H. TRUMP, Barberton, Ohio, assignor to the Biltwell Tire & Rubber Company, Barberton, Ohio, a Corporation of Ohio. Filed Feb. 4, 1920. Serial No. 356,141. Term of patent 14 years.



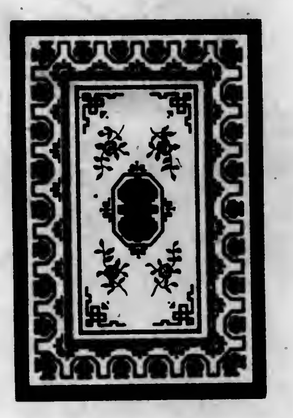
The ornamental design for an elastic vehicle tire as shown.

55,833. SIGNAL-LIGHT FOR AUTOMOBILES. CHARLES A. VOGIES, Los Angeles, Calif., assignor, by direct and mesne assignments, to Albert Brush, Los Angeles, Calif. Filed Oct. 27, 1919. Serial No. 334,625. Term of patent 14 years.



The design for a signal light for automobiles substantially as shown.

55,834. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,663. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,835. STATUETTE. IDA A. WITHERS, Fort Worth, Tex. Filed Aug. 8, 1919. Serial No. 316,272. Term of patent 3½ years.



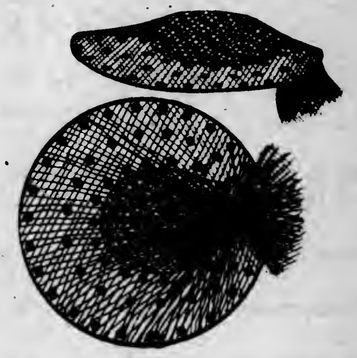
The ornamental design for a statuette, as shown

55,836. FLAG. JOHN C. YOUNG, Kansas City, Mo. Filed Mar. 5, 1920. Serial No. 363,589. Term of patent 14 years.



The ornamental design for a flag, as shown.

55,837. HAT. ABRAHAM J. ZIV, Chicago, Ill. Filed Aug. 8, 1919. Serial No. 316,274. Term of patent 3½ years.



The ornamental design for a hat substantially as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 13, 1920.

[PUBLISHED JULY 15, 1920.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 96,675. (CLASS 12. CONSTRUCTION MATERIALS.) JACOB MAZER, Pittsburgh, Pa. Filed July 19, 1916.

ACOUSTILE

Particular description of goods.—Acoustic Appliances for Altering the Acoustic Properties of Auditoriums—Namely, Sound-Absorbing Sheet Material Made of Felt: Sheets, Pads, or other Bodies of Felt: Wall-Coverings and Ceiling-Coverings Made of Hair Felt and Built into Wooden Frames Covered with Textile Fabric.

Claims use since Mar. 2, 1916.

Ser. No. 105,358. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HOLT MANUFACTURING COMPANY, Stockton, Calif. Filed July 30, 1917.

CATERPILLAR

Particular description of goods.—Freighting Outfits Consisting of a Tractor and Trailer-Vehicles Drawn Thereby.

Claims use since March, 1910.

Ser. No. 106,733. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEORGE STRATFORD OAKUM CO., Jersey City, N. J. Filed Oct. 11, 1917.

DREADNOUGHT

Particular description of goods.—Oakum.

Claims use since on or about June 1, 1917.

Ser. No. 109,072. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE CELLULOID COMPANY, New York, N. Y. Filed Feb. 18, 1918.

VERNALEUR

The word "Vernaleur."

Particular description of goods.—Dressing-Combs, Pocket-Combs, Hair-Combs, Back-Combs, Side-Combs, Infant-Combs, Fine Combs, Casque-Combs, Barrettes, Chignon-Pins, Hatpins, Beads for Ornamental Purposes, Tatting-Shuttles, Collar-Stays, Pincushions, Pin-Cabinets, Bandeaus, Sticks for Fans for Personal Use, Bodkins, Glove-Stretchers; Stocking-Darners, Glove-Darners, and Knitting-Needles for Hand Use; Finger-Shields for Use in Sewing or Making Embroidery, Shoe-Horns, Shoe-Hooks, Napkin-Rings, Thimbles, Collar-Buttons, Hairpins; Handles for Toilet Articles—Namely, Button-Hooks, Glove-Hooks; Ready-Made Caps for Upholstery-Buttons, and Molded Coverings for Both Eyelet and Lacing-Hooks.

Claims use since Jan. 5, 1918.

Ser. No. 109,096. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE CELLULOID COMPANY, New York, N. Y. Filed Feb. 18, 1918.

AMBERLEUR

The word "Amberleur."

Particular description of goods.—Dressing-Combs, Pocket-Combs, Hair-Combs, Back-Combs, Side-Combs, Infant-Combs, Fine Combs, Barrettes, Casque-Combs, Chignon-Pins, Hatpins, Beads for Ornamental Purposes, Tatting-Shuttles, Collar-Stays, Pincushions, Pin-Cabinets, Bandeaus, Sticks for Fans for Personal Use, Bodkins, Glove-Stretchers; Stocking-Darners, Glove-Darners, and Knitting-Needles for Hand Use; Finger-Shields for Use in Sewing or Making Embroidery, Shoe-Horns, Shoe-Hooks, Napkin-Rings, Thimbles, Collar-Buttons, Hairpins; Handles for Toilet Articles—Namely, Button-Hooks, Glove-Hooks; Ready-Made Caps for Upholstery-Buttons, and Molded Coverings for Both Eyelet and Lacing-Hooks.

Claims use since Jan. 5, 1918.

Ser. No. 110,680. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE CELLULOID COMPANY, New York, N. Y. Filed May 6, 1918.

SHELLEUR

The word "Shelleur."

Particular description of goods.—Dressing-Combs, Pocket-Combs, Hair-Combs, Back-Combs, Side-Combs, Barrettes, Casque-Combs, Chignon-Pins, Hatpins, Beads for Ornamental Purposes, and Tatting-Shuttles, Collar-Stays, Pincushions, Pin-Cabinets, Bandeaus, Sticks for Fans for Personal Use, Bodkins, Glove-Stretchers; Stocking-Darners, Glove-Darners, and Knitting-Needles for Hand Use;

Finger-Shields for Use in Sewing or Making Embroidery, Shoe-Horns, Shoe-Hooks, Napkin-Rings, Thimbles, Collar-Buttons, Hairpins, Handles for Toilet Articles—Namely, Button-Hooks, Glove-Hooks; Ready-Made Caps for Upholstery-Buttons, and Molded Coverings for Both Eyelet and Lacing-Hooks, All of Said Articles Being Made of Pyroxylin.

Claims use since Jan. 5, 1918.

Ser. No. 110,681. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE CELLULOID COMPANY, New York, N. Y. Filed May 6, 1918.

EBONEUR

The word "Eboneur."

Particular description of goods.—Dressing-Combs, Pocket-Combs, Hair-Combs, Back-Combs, Side-Combs, Infants' Combs, Fine Combs, Barrettes, Casque-Combs, Chignon-Pins, Hatpins, Beads for Ornamental Purposes, and Tatting-Shuttles, Collar-Stays, Pincushions, Pin-Cabinets, Bandeaus, Sticks for Fans for Personal Use, Bodkins, Glove-Stretchers; Stocking-Darners, Glove-Darners and Knitting-Needles for Hand Use; Finger-Shields for Use in Sewing or Making Embroidery, Shoe-Horns, Shoe-Hooks, Napkin-Rings, Thimbles, Collar-Buttons, Hairpins, Handles for Toilet Articles—Namely, Button-Hooks, Glove-Hooks; Ready-Made Caps for Upholstery-Buttons, and Molded Coverings for Both Eyelet and Lacing-Hooks, All of Said Articles Being Made of Pyroxylin.

Claims use since Jan. 5, 1918.

Ser. No. 113,279. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER DIEHNELT, Milwaukee, Wis. Filed Sept. 20, 1918.

WD

Particular description of goods.—Pure Food Products, in Particular Honey, Syrup, Relishes, Fruit Preserves, Vinegar, Peanut-Butter, and Salad-Oil.

Claims use since Jan. 1, 1917.

Ser. No. 113,809. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) EDWARD BRICE KILLEN, London, England. Filed Oct. 19, 1918.

GABLE

Consists of the word "Gable."

Particular description of goods.—Rubber Tires for Motor-Cars and other Vehicles.

Claims use since July 4, 1918.

Ser. No. 114,840. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TECHNICAL FOOD PRODUCTS COMPANY, INC., Los Angeles, Calif. Filed Dec. 27, 1918.

EGGNITT

Particular description of goods.—A Leavening Material or Compound Composed of Baking-Powder and Eggs.

Claims use since Nov. 1, 1918.

Ser. No. 114,882. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERSTATE EMPLOYMENT SYSTEM, Denver, Colo. Filed Dec. 30, 1918.

MANFINDER

Particular description of goods.—A Monthly Periodical.

Claims use since about Dec. 9, 1913.

Ser. No. 115,738. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) QUEEN ANNE CANDY CO., INC., Seattle, Wash. Filed Feb. 10, 1919.



In the trade-mark as shown the lining for color represents red, the color in which the words "Duck Soup" are printed. Applicant disclaims the exclusive right to the use of the words "Bar," "10¢," and "© Queen Anne Candy Co., Seattle" apart from the other features of the mark.

Particular description of goods.—Candies.

Claims use since October, 1918.

Ser. No. 116,130. (CLASS 7. CORDAGE.) THE FIRTH COMPANY LIMITED, Warrington, England. Filed Feb. 25, 1919.

FIRCONE

Particular description of goods.—Wire Rope.

Claims use since May 16, 1917.

Ser. No. 116,151. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THEODORE R. PONTO, Spokane, Wash. Filed Feb. 26, 1919.



No claim being made to "Economy Products Company, Spokane, Wash., Economy Products."

Particular description of goods.—Laundry-Tablets and Powdered Cleanser.

Claims use on laundry-tablets since Aug. 28, 1917, and on the powdered cleanser since Feb. 14, 1919.

Ser. No. 116,211. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REDEL CANDY CORPORATION, Milwaukee, Wis. Filed Feb. 28, 1919.



The picture being fanciful, no claim being made to the surname "Redel's" apart from the mark as shown.

Particular description of goods.—Candy and Chocolate.

Claims use since December, 1915.

Ser. No. 116,391. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JOSEPH ROBINSON, Washington, D. C. Filed Mar. 7, 1919.



Particular description of goods.—Steam and Air Pipe Couplers for Railway-Cars.

Claims use since January, 1915.

Ser. No. 116,733. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MUTUAL SEED CO., Chicago, Ill. Filed Mar. 20, 1919.

DROVERS

Particular description of goods.—Dairy and Stock Feed.

Claims use since Dec. 1, 1918.

Ser. No. 116,801. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONSTANTINE TREARCHIS, New Bedford, Mass. Filed Mar. 21, 1919.



Including a picture of the applicant.

Particular description of goods.—Pickles, Prepared Mustard, and Salad-Dressing.

Claims use since Nov. 1, 1917.

Ser. No. 116,974. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE RANSOM & RANDOLPH COMPANY, Toledo, Ohio. Filed Mar. 27, 1919.



Particular description of goods.—Dental Vacuum Casting Appliances and Attachments, Dental Crucibles and Positioning-Rings Therefor, Dental Gasolene Appliances and Blowpipes, Dental Needles, Dental Syringes, Dental Boiling Cups or Dishes, Dental Sterilizing-Jars, Dental Swaging Devices and Dental Burs, Watt's Metal, (an Alloy Used for Making Dental Plates;) Dental Separating Fluids and Varnishes, Including Cast Gloss, Separlac, Shellac Varnishes, Sandarac Varnish, and Liquid Silex; Dental Investment Compounds, (Used in Dental Laboratories for Making Molds and Models in Which or on Which Metal is Cast or Soldered,) Dental Cements, and Dental Waxes.

Claims use since prior to 1912.

Ser. No. 117,070. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STANDEX MANUFACTURING CORPORATION, Chicago, Ill. Filed Mar. 31, 1919.

STANDEX

Wherein the lining represents shading and does not express color.

Particular description of goods.—Lubricating Systems.

Claims use since Dec. 19, 1918.

Ser. No. 117,077. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WATERPROOF OIL PRODUCTS CO., Seattle, Wash. Filed Mar. 31, 1919.

BAINOIL

Particular description of goods.—Leather-Shoe Dressing.

Claims use since Mar. 1, 1919.

Ser. No. 117,487. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAFAYETTE FULTS, Jr., E. LLOYD MCKENZIE, and F. W. KORSMEYER, Colorado Springs, Colo. Filed Apr. 15, 1919.

Maltoago

Particular description of goods.—Food-Drink.

Claims use since Mar. 1, 1918.

Ser. No. 118,022. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILLIAM SILVERBERG, Chicago, Ill. Filed Apr. 30, 1919.

TEL→TAX

Applicant disclaims the word "Tax" apart from the mark as shown by the drawing.

Particular description of goods.—Tax-Registers.

Claims use since Apr. 18, 1919.

Ser. No. 118,058. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE NATIONAL SUPPLY COMPANY, Toledo, Ohio. Filed May 1, 1919.

NSCO

Particular description of goods.—Well-Drilling Rigs and Parts Thereof, Well-Derricks, Bull-Wheels, Calf-Wheels, Band-Wheels, Friction-Drums, Brake-Wheels, Well-Drilling Machines and Parts Thereof, Walking-Beams, Crown-Blocks for Well-Derricks, Well-Drilling Rig-Irons, Machine Brakes and Clutches, Sprocket-Wheels, Bearings for Shafts, Machine-Shafting, Temper-Screws, Temper-Screw Clamps, Rope-Sockets for Well-Drilling Tools, Drilling-Jars, Drilling-Stems, Drilling Bits and Shoes, Metal Reamers, Underreamers, Swivel-Boxes, Well-Bailers and Sand-Pumps, Drilling-Tool Swabs, Derrick-Cranes, Spudding-Shoes for Well-Drilling Machines, Steam-Hammers, Rotary Well-Drilling Machines and Parts Thereof, Slush-Pumps and Parts Thereof, Water-Swivels for Drilling-Machines, Mud-Mixers for Wells, Drive-Heads and Drive-Points for Well-Casings, Well-Casing Spears, Elevators for Well Casing and Tubing, Casing-Cutters for Wells, Sucker-Rods, Pipe Rings and Spiders and Wedges, Slips for Rotary Well-Drilling Machines and Liners for Pumps Therefor, Wire-Rope-Splicing Tools, Oil-Savers for Oil-Wells; Air, Oil, Water, and Gas Pumps and Parts Thereof; Machines Constructed to Transmit Power to Operate a Plurality of Pumps and Parts Thereof, Pumping Jacks and Parts Thereof, Fence-Jacks for Tightening Wires and Rods; Hoisting-Machines and Parts Thereof for Raising and Lowering Well Tubing, Casing, and Sucker-Rods; Boiler-Tube-Cleaning Tools and Steam-Engines, Gas and Gasolene Engines, and Parts Thereof; Gas-Compressors and Parts Thereof, Fishing-Tools for Wells, Jacks, Snatch-Blocks, Tackle-Blocks, Hoisting-Hooks, Chain-Hoists, Sheaves, Pulleys, Casing-Heads for Wells, Stuffing-Boxes, Well-Packers, Reels, Load-Binders, Tongs, Wrenches, Vises, Sledges, Hammers, Forge-Tools, Chisels, Calking-Irons, Tube-Beaders, Files, Rasps, Pinch-Bars, Crowbars, Picks, Shovels, Hoes, Axes, Adzes, Hatchets, Pliers, Soldering-Irons, Bit-Braces, Boring-Bits, Augers, Drawing-Knives, Planes, Screw-Drivers, Saws, Saw-Sets, Tool-Handles, Cant-Hooks, Belt-Punches, Metal-Punches, Tube Cutters and Expanders, Metal-Drilling Machines and Parts Thereof, Ratchet-Drills, Drill-Bits, Metal-Presses, Pipe-Threading Machines and Parts Thereof, Tapping-Machines, Threading Taps and Dies, Pipe-Benders, Pipe-Cutting Machines and Parts Thereof, Reamers, Rotary Fans and Blowers, Oil-Cups, and Grease-Cups.

Claims use since the year 1900.

Ser. No. 118,123. (CLASS 4. ABRASIVE, DÉTERGENT, AND POLISHING MATERIALS.) SCHUSTER BROS. INC., El Paso, Tex. Filed May 3, 1919.

JABON BORREGO

No claim is made to the use of the words "Jabon Borrego" aside from the mark shown.

Particular description of goods.—Soap.

Claims use since January, 1919.

Ser. No. 118,461. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BRANFORD ELECTRIC COMPANY, New York, N. Y. Filed May 14, 1919.

Cupronic

Particular description of goods.—Cupronickel Alloys in the Form Either of Wire, Ribbon, Rods, Sheets, Billets, or Castings.

Claims use since February, 1917.

Ser. No. 118,462. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BRANFORD ELECTRIC COMPANY, New York, N. Y. Filed May 14, 1919.

Feronic

Particular description of goods.—Ferronickel Alloys in the Form Either of Wire, Ribbon, Rods, Sheets, Billets, or Castings.

Claims use since February, 1917.

Ser. No. 118,800. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEHON, STEVENSON AND COMPANY, Huntington, W. Va. Filed May 22, 1919.

Breakfast King

Particular description of goods.—Coffee.

Claims use since Apr. 16, 1915.

Ser. No. 118,957. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CONTINUOUS REACTION COMP'Y., LTD., Battersea, London, England. Filed May 27, 1919.

CONREACTO

Particular description of goods.—Ferrotungsten Alloy.

Claims use since Nov. 24, 1916.

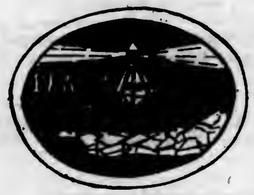
Ser. No. 118,970. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRICE SPECIALTY COMPANY, Indianapolis, Ind. Filed May 27, 1919.

MOTHER'S

Particular description of goods.—Food Products, Specifically Prepared Pie-Filling Products—That is, a Combination or Mixture of Ingredients Suitable for Making Pies.

Claims use since about July 1, 1918.

Ser. No. 119,626. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BEACON FEED COMPANY, New York, N. Y. Filed June 16, 1919.



Particular description of goods.—Dairy Rations, Horse Feed, and Scratch-Grains.

Claims use since Apr. 7, 1919.

Ser. No. 121,077. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & CO., Prague, Bohemia. Filed July 29, 1919.

Jndepedence

Particular description of goods.—Hand Sewing-Needles, Knitting-Needles, Crochet-Needles, Hairpins, Hatpins Not Made of Precious Metal, Buttons Not Made of Precious Metal, Buckles for Personal Wear Not Made of Precious Metal, Thimbles, Coat-Hangers Adapted to be Attached to Garments, Clasps for Personal Wear Not Made of Precious Metal, Button-Tapes, and Collar-Buttons and Cuff-Buttons Not Made of Precious Metal.

Claims use since Jan. 1, 1915.

Ser. No. 121,081. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & CO., Prague, Bohemia. Filed July 29, 1919.

TRIUMPH

Particular description of goods.—Placket-Fasteners, Glove-Fasteners, Hand Sewing-Needles, Knitting-Needles, Crochet-Needles, Hairpins, Hatpins Not Made of Precious Metal, Buttons Not Made of Precious Metal, Buckles for Personal Wear Not Made of Precious Metal, Thimbles, Coat-Hangers Adapted to be Attached to Garments, Clasps for Personal Wear Not Made of Precious Metal, Button-Tapes, and Collar-Buttons and Cuff-Buttons Not Made of Precious Metal.

Claims use since April, 1908.

Ser. No. 122,743. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE WILLIAMS FOUNDRY & MACHINE CO., Akron, Ohio. Filed Sept. 15, 1919.

A-W

Particular description of goods.—Vulcanizing Outfits of the Stationary Type for Rubber Tires, Comprising Vulcanizing-Molds and Mold-Presses, Steam-Generators for Vulcanizers, Mold-Platforms Having Assembled Thereon Tire-Vulcanizers and Tube-Vulcanizers, and Individual Tire and Tube Vulcanizers, Bead-Molds, Reducing-Shells, Blocks and Cores, Retreading-Rims, Repair Side Flanges, Bench-Brackets and Tire-Lasts, Vulcanizing-Kettles, Rebuilding-Stands, Force-Feed Gasolene Systems for Vulcanizers, Tube-Deflators, Retreading-Coils, Repair Rolling-Machines, Rag-Rollers, Tire-Rasps, and, Wrapping-Machines for Inner Tubes.

Claims use since August, 1917.

Ser. No. 123,075. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NOOTKA PACKING COMPANY LIMITED, Everett, Wash. Filed Sept. 24, 1919.

SNOWSTORM

Particular description of goods.—Fish—Namely, Pilchards, Canned.

Claims use since Sept. 12, 1919.

Ser. No. 123,134. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWEST TRADING COMPANY LTD., Seattle, Wash. Filed Sept. 25, 1919.

3 DIAMOND BRAND

No claim is made to the word "Brand" apart from the trade-mark.

Particular description of goods.—Canned Salmon.

Claims use since Aug. 20, 1919.

Ser. No. 123,574. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) REICHMAN & FAUST, New York, N. Y. Filed Oct. 9, 1919.

Blue Bird

Particular description of goods.—Hair-Nets.

Claims use since Mar. 1, 1919.

Ser. No. 123,675. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JAMES WALKER & Co. LTD., London, England. Filed Oct. 10, 1919.



The words "Walker's Golden" being hereby disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Sheet-Packing for Steam, Air, Hydraulic, or other Joints Composed of Asbestos Fiber and Rubber.

Claims use since November, 1907.

Ser. No. 123,676. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JAMES WALKER & Co. LTD., London, England. Filed Oct. 10, 1919.

LIPACKITE

Particular description of goods.—Steam and Hydraulic Packing in Rods and Sheets Composed of Asbestos Fiber and Rubber.

Claims use since August, 1914.

Ser. No. 123,677. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JAMES WALKER & Co. LD., London, England. Filed Oct. 10, 1919.

DANDY LION

Particular description of goods.—Packings and Jointings for Steam, Air, Hydraulic, or other Joints, Composed of Asbestos Fiber and Rubber.

Claims use since June, 1916.

Ser. No. 124,695. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SLONIM BROTHERS, Duluth, Minn. Filed Nov. 8, 1919.



Particular description of goods.—Armbands, Garters, and Suspenders.

Claims use since Nov. 4, 1919.

Ser. No. 124,887. (CLASS 39. CLOTHING.) ELITE HOSIERY COMPANY, INC., Philadelphia, Pa. Filed Nov. 14, 1919.

ELITE

Particular description of goods.—Hosiery.

Claims use since about Oct. 3, 1919.

Ser. No. 124,894. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRAND UNION TEA Co., Brooklyn, N. Y. Filed Nov. 14, 1919.

GRAND UNION

Particular description of goods.—Laundry and Toilet Soaps, Soap Powder, Soap Flakes, Scouring-Powder, and Metal-Polish.

Claims use since about 1888.

Ser. No. 125,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MANUFACTURERS PURCHASING CORPORATION, New York, N. Y. Filed Nov. 17, 1919.

"NUMILK"

No claim being made to the exclusive use of the words "New" and "Milk."

Particular description of goods.—Powdered Buttermilk.

Claims use since June, 1918.

Ser. No. 125,141. (CLASS 39. CLOTHING.) WATERPROOF GARMENT CO., Portland, Oreg. Filed Nov. 20, 1919.



No claim being made to the words "Will Wear" apart from the mark shown in the drawing, the vertical lining of the horizontal bars in the drawing not being intended to indicate color.

Particular description of goods.—Hats, Coats, Trousers, Raincoats, and Aprons.

Claims use since January, 1919.

Ser. No. 125,333. (CLASS 39. CLOTHING.) Z. & S. MIDDY CO., New York, N. Y. Filed Nov. 26, 1919.

Bonnie Brig

Particular description of goods.—Middy-Blouses.

Claims use since Nov. 14, 1919.

Ser. No. 125,514. (CLASS 39. CLOTHING.) THE LUCILE SOMARCO BRASSIERE CO., New York, N. Y. Filed Dec. 2, 1919.



No claim is made to the exclusive use of the word "Brassière" apart from the trade-mark as shown.

Particular description of goods.—Brassières.

Claims use since Nov. 1, 1919.

Ser. No. 125,582. (CLASS 39. CLOTHING.) MAX SPIRO & Co., New York, N. Y. Filed Dec. 4, 1919.

"SPIROCRAFT"

Particular description of goods.—Men's Coats, Trousers, Vests, Overcoats.

Claims use since Sept. 2, 1919.

Ser. No. 125,640. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE WELLS MANUFACTURING COMPANY, Youngstown, Ohio. Filed Dec. 5, 1919.

BLUE DEVIL

Particular description of goods.—Cleaning and Cleansing Compounds in Dry or Powdered Form, Designed to be Used in Washing or Laundry-Work and General Household Cleaning.

Claims use since Oct. 1, 1919.

Ser. No. 125,911. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE SUPERIOR SHEET STEEL COMPANY, Canton, Ohio. Filed Dec. 12, 1919.



No claim being made to the word "Canton" apart from the mark shown.

Particular description of goods.—Rolled Steel in Various Forms and Finishes, Consisting of Sheet-Steel in Black, Galvanized, Blue-Annealed, Painted, and other Finishes.

Claims use since Nov. 21, 1919.

Ser. No. 126,095. (CLASS 12. CONSTRUCTION MATERIALS.) BENCOE LUMBER COMPANY, INC., New York, N. Y. Filed Dec. 16, 1919.

B H

Consisting of the letters "B H."

Particular description of goods.—Dressed Lumber and Staves.

Claims use since about July 1, 1919.

Ser. No. 126,615. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE CONTINENTAL SUPPLY COMPANY, St. Louis, Mo. Filed Dec. 30, 1919.

HEL FI

Particular description of goods.—Sheet-Packing Composed of Rubber and Fibrous Material.

Claims use since Sept. 1, 1919.

Ser. No. 126,689. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LICHTENSTEIN & COMPANY, LIMITED, Uxbridge, England. Filed Dec. 31, 1919.

CARMAX

Particular description of goods.—Caramel, Burnt Sugar, Brewing-Sugar, and Colored Sugar.

Claims use since Mar. 21, 1919.

Ser. No. 126,797. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. E. GILINSKY, Omaha, Nebr. Filed Jan. 5, 1910.



The word "Brand" appearing on the drawing is hereby disclaimed apart from the other features of the mark.

Particular description of goods.—Fresh Apples.

Claims use since Sept. 10, 1919.

Ser. No. 126,798. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. E. GILINSKY, Omaha, Nebr. Filed Jan. 5, 1910.



The word "Brand" appearing on the drawing is hereby disclaimed apart from the other features of the mark. It is hereby declared that the picture on the drawing is merely a fanciful portrait.

Particular description of goods.—Fresh Apples.

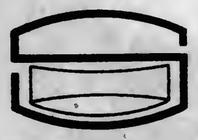
Claims use since Sept. 18, 1919.

Ser. No. 126,825. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SPENCER LENS COMPANY, Buffalo, N. Y. Filed Jan. 5, 1920.

SPENCER

Particular description of goods.—Optical and Scientific Appliances Comprising Microscopes, Their Parts and Accessories; Microtomes, Their Parts and Accessories; Telescopes, Their Parts and Accessories; Delineascopes, Their Parts and Accessories; Prismatic Optical Appliances, Their Parts and Accessories; Camera Lucidas, Their Parts and Accessories; Micrometers, Their Parts and Accessories; Microscope, Telescope, Photographic, and Projection Lenses, Their Parts and Accessories; Lens-Holders, Magnifying Instruments, Condensers; Photographic Projection Devices, Their Parts and Accessories; Polariscopes, Tissue-Freezers; Blood, Urine, and Milk Testing Apparatus; Centrifuges, Microscope-Lamps, Photomicrographic Cameras, Microscopic Drawing Apparatus, Microscope Object-Slides, Microscope Cover-Glasses, Microscope Slide Receptacles and Holders, and Laboratory-Incubators.
Claims use since on or about Jan. 1, 1916.

Ser. No. 126,972. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SPENCER LENS COMPANY, Buffalo, N. Y. Filed Jan. 9, 1920.



Particular description of goods.—Optical and Scientific Appliances Comprising Microscopes, Their Parts and Accessories; Microtomes, Their Parts and Accessories; Telescopes, Their Parts and Accessories; Delineascopes, Their Parts and Accessories; Prismatic Optical Appliances, Their Parts and Accessories; Camera Lucidas, Their Parts and accessories; Micrometers, Their Parts and Accessories; Microscope, Telescope, Photographic, and Projection Lenses, Their Parts and Accessories; Lens-Holders, Magnifying Instruments, Condensers; Photographic Projection Devices, Their Parts and Accessories; Polariscopes, Tissue-Freezers; Blood, Urine, and Milk Testing Apparatus; Centrifuges, Microscope-Lamps, Photomicrographic Cameras, Microscopic Drawing Apparatus, Microscope Object-Slides, Microscope Cover-Glasses, Microscope Slide Receptacles and Holders, and Laboratory-Incubators.
Claims use since on or about Jan. 1, 1916.

Ser. No. 127,040. (CLASS 39. CLOTHING.) B. A. COLLINS & CO., INC., Springfield, Mass. Filed Jan. 12, 1920.



Makes no claim to the use of the words "Kiddies Klothes" apart from its use in connection with drawing as shown.
Particular description of goods.—Infants' and Children's Dresses and Rompers.
Claims use since June 1, 1919.

Ser. No. 127,260. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN ORMEROD & SONS LTD., Castleton, England. Filed Jan. 17, 1920.

LYKNO

Particular description of goods.—Roller-Skins for Use in Textile Machinery.
Claims use since May 17, 1912.

Ser. No. 127,486. (CLASS 23, CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PETROLEUM ENGINE & MANUFACTURING CO. INCORPORATED, New York, N. Y. Filed Jan. 22, 1920.

PENMAC

Particular description of goods.—Stationary, Marine, Truck, and Tractor Engines, Pumps, Water-Supply Systems, Hoists, and Loaders.
Claims use since Mar. 1, 1919.

Ser. No. 127,506. (CLASS 33. GLASSWARE.) GILL BROTHERS COMPANY, Steubenville, Ohio. Filed Jan. 23, 1920.



Particular description of goods.—Glass Baking and Cooking Utensils; Glass Tubing; Glass Bulbs for Electric Lights; Miners'-Lamp Glasses; Glass Oven-Door Panels; Glass Vault-Lights.
Claims use since about the 1st of January, 1887.

Ser. No. 127,679½. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WINTHROP ORCHARDS, INC., Philadelphia, Pa. Filed Jan. 28, 1920.

Win-Orz

Particular description of goods.—Boxed Apples in Their Natural State.
Claims use since Nov. 1, 1919.

Ser. No. 127,724. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Jan. 29, 1920. Under ten-year proviso.

Kleinert

Particular description of goods.—Sanitary Rubber Sheets, Rubber Dam, Sanitary Aprons, Sanitary Belts, and Sanitary Napkins.
Claims use since Jan. 1, 1891.

Ser. No. 127,726. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Jan. 29, 1920.



Particular description of goods.—Sanitary Rubber Sheets, Rubber Dam, Sanitary Aprons, Sanitary Belts, and Sanitary Napkins.
Claims use since February, 1886.

Ser. No. 127,737. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) NILSON-MILLER COMPANY, Hoboken, N. J. Filed Jan. 29, 1920.

FLEXO

Particular description of goods.—Piston-Rings.
Claims use since Mar. 1, 1919.

Ser. No. 127,966. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GUTTA PERCHA & RUBBER MANUFACTURING COMPANY, New York, N. Y. Filed Feb. 4, 1920.

GP

Particular description of goods.—Fabric Hose, Rubber Hose, and Sheet-Packing of Rubber and Fabric.
Claims use since about 1895.

Ser. No. 128,050. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SANFORD MILLS, Sanford, Me. Filed Feb. 6, 1920.

Velmo

Particular description of goods.—Pile Fabrics Made Wholly or in Part of Mohair.
Claims use since the spring of 1915.

Ser. No. 128,310. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KINGAN & COMPANY, LIMITED, Belfast, Ireland, and Indianapolis, Ind. Filed Feb. 12, 1920.



Particular description of goods.—Pork and Beans.
Claims use since January, 1920.

Ser. No. 128,399. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EMMETT L. MURPHY, Chicago, Ill. Filed Feb. 14, 1920.

BLUE RIBBON

Particular description of goods.—Belt-Dressings.
Claims use since June 6, 1907.

Ser. No. 128,496. (CLASS 35. BELTING, HOSE, MACHINERY PACKING AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 17, 1920.

COMMANDER

Particular description of goods.—Belting and Diaphragms for Paper-Mill Vats Made of Fabric Combined with Rubber and Hose Made of Rubber Reinforced with Fabric or Metal.
Claims use on belting since about Nov. 30, 1913; on diaphragms since about June, 1916, and on hose since about Dec. 13, 1913.

Ser. No. 128,518. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NICK PICCOLI, Paterson, N. J. Filed Feb. 17, 1920.



The lining therein merely representing shading, no claim being made to the exclusive use of the scroll nor to the words "Brown Standard Paste, for Polishing Ladies', Children's & Men's Brown Shoes, Made by, 411 Main St., Paterson, N. J., U. S. A."

Particular description of goods.—Shoe-Polish, Either Paste, Liquid, or Powder, and Hat-Cleaning Material.

Claims use since Jan. 22, 1920.

Ser. No. 128,540. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HARRY BRODER, New York, N. Y. Filed Feb. 18, 1920.



No claim is made to the registration of the separate words "Standard Ribbon Rosebuds" as a registered trade-mark apart from the mark shown in the drawing, but without waiving any common-law or other rights incident thereto other than the disclaimer specifically set forth above.

Particular description of goods.—Ribbon Novelties—Namely, Rosebuds or Rosettes.

Claims use since Jan. 15, 1920.

Ser. No. 128,634. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE YARDLEY CHEMICAL CORPORATION, New York, N. Y. Filed Feb. 19, 1920.

CHLORONOL

Particular description of goods.—Germicide, Disinfectant, Deodorant, and Antiseptic.

Claims use since Dec. 30, 1919.

Ser. No. 128,635. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE YARDLEY CHEMICAL CORPORATION, New York, N. Y. Filed Feb. 19, 1920.

NOVONOL

Particular description of goods.—Medicinal Remedy for Sore Throat, Cuts, Burns, and Abrasions.

Claims use since Dec. 30, 1919.

Ser. No. 128,636. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE YARDLEY CHEMICAL CORPORATION, New York, N. Y. Filed Feb. 19, 1920.

PYRONOL

Particular description of goods.—A Remedy for the Treatment of Pyorrhea, Infected Teeth, and Lesions of the Tissue of the Mouth and All Pathological Conditions of the Gums and Mucous Membranes and as a Disinfectant, Deodorant, and Antiseptic Mouth-Wash.

Claims use since Dec. 30, 1919.

Ser. No. 128,639. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ABBOTT LABORATORIES, Chicago, Ill. Filed Feb. 20, 1920.

ANESTHAINE

Particular description of goods.—Anesthetics.

Claims use since about June, 1909.

Ser. No. 128,640. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ABBOTT LABORATORIES, Chicago, Ill. Filed Feb. 20, 1920.

SALITHIA

Particular description of goods.—Effervescent Salts.

Claims use since about July, 1903.

Ser. No. 128,641. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AMBLER TOY MANUFACTURING COMPANY, INCORPORATED, Ambler, Pa. Filed Feb. 20, 1920.



No claim being made to the word "Toys" except in the association of the mark shown.

Particular description of goods.—Card Games, Game-Boards, Toy Vehicles, and Toy Aeroplanes.

Claims use since Feb. 1, 1920.

Ser. No. 128,816. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN TRACTOR & FOUNDRY COMPANY, Charles City, Iowa. Filed Feb. 24, 1920.



Particular description of goods.—Tractors, Gas and Kerosene Internal-Combustion Engines.

Claims use since Feb. 2, 1920.

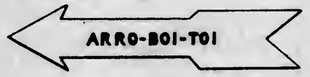
Ser. No. 128,949. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MARY H. AMICK, Chicago, Ill. Filed Feb. 27, 1920.

ROSE-MARY BUDS

Particular description of goods.—Trimmings and Garnitures Consisting of Combinations of Ribbons, Laces, and the Like Made Up to Represent Floral Configurations, for Ladies' Wearing-Apparel, Particularly Negligée, Lingerie, and Millinery, and Infants' and Children's Wearing-Apparel, Including Hats, Bonnets, Dresses, Coats, and Undergarments.

Claims use since Oct. 1, 1919.

Ser. No. 128,950. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ARROW TOY MFG. CO., Philadelphia, Pa. Filed Feb. 27, 1920.



Particular description of goods.—Velocipedes for the Use of Children.

Claims use since Jan. 20, 1920.

Ser. No. 129,012. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) J. L. HOPKINS & CO., New York, N. Y. Filed Feb. 28, 1920.

VENITURP

Particular description of goods.—Synthetic Venice Turpentine.

Claims use since Feb. 1, 1920.

Ser. No. 129,151. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PIERRE NAMRON COMPANY, INC., New York, N. Y. Filed Mar. 2, 1920.

Broken Blossoms

Particular description of goods.—Face-Powders, Face-Creams, Perfumes, Toilet Waters, Rouges, Hair-Tonics, Dentifrices, Tooth-Powders, Nail-Polishes, Deodorants, Brilliantines, and Sachet-Powders.

Claims use since July 20, 1919.

Ser. No. 129,211. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL CONSOLIDATED CHEMICAL CORP., New York, N. Y. Filed Mar. 4, 1920.

NUXATED ASPIRIN

No claim being made to the word "Aspirin" apart from the mark as shown.

Particular description of goods.—Aspirin.

Claims use since Feb. 18, 1920.

Ser. No. 129,240. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) MASTERBILT HOMES, INC., Memphis, Tenn. Filed Mar. 4, 1920.

MASTERBILT

"Masterbilt," as shown in the accompanying drawing.

Particular description of goods.—Sectional or Knock-down Buildings.

Claims use since early in September, 1919.

Ser. No. 129,354. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TRIPOD PAINT CO., Atlanta, Ga. Filed Mar. 6, 1920.

Albanite

Particular description of goods.—Cold-Water White.

Claims use since Aug. 30, 1906.

Ser. No. 129,357. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TRIPOD PAINT CO., Atlanta, Ga. Filed Mar. 6, 1920.

Piedmont

Particular description of goods.—White Lead and Ready-Mixed Paints.

Claims use since 1889.

Ser. No. 129,358. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TRIPOD PAINT CO., Atlanta, Ga. Filed Mar. 6, 1920.

RAYFLEX

Particular description of goods.—Mill-White.

Claims use since November, 1918.

Ser. No. 129,496. (CLASS 39. CLOTHING.) BENJAMIN S. GINSBERG, New York, N. Y. Filed Mar. 10, 1920.

Slend-A-Line

No claim is made to the words "Slender-Line."
Particular description of goods.—Women's Dresses.
Claims use since about Mar. 1, 1920.

Ser. No. 129,568. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PROJECTION OPTICS CO., INC., Rochester, N. Y. Filed Mar. 11, 1920.

PRO-JEX

Particular description of goods.—Projection-Lenses Used in Motion-Pictures and Stereopticon Apparatus.
Claims use since Dec. 1, 1919.

Ser. No. 129,643. (CLASS 2. RECEPTACLES.) NATIONAL SANITARY STREET SYSTEM, INC., Philadelphia, Pa. Filed Mar. 13, 1920.



Particular description of goods.—Trash-Receptacles Adapted to be Used on Streets.
Claims use since Jan. 1, 1920.

Ser. No. 129,714. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRAVES CANNING CO. INC., Sheridan, Oreg. Filed Mar. 15, 1920.



No claim is made to the representation of fruit apart from the mark shown on the drawing.
Particular description of goods.—Canned Fruits.
Claims use since Sept. 30, 1919.

Ser. No. 129,843. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HANSEN PACKING COMPANY, Butte, Mont. Filed Mar. 17, 1920.



The vertical lining in the central oval panel of the drawing and between the marginal lines is intended to indicate that these parts are red, whereas the horizontal lining throughout the lower portion of the diamond-shaped figure is intended to represent blue.
Particular description of goods.—Ham and Bacon.
Claims use since Aug. 21, 1919.

Ser. No. 129,941. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN W. MASURY & SON, New York, N. Y. Filed Mar. 19, 1920.

TIMLAC

Particular description of goods.—A Spirit-Varnish Suitable for Use as a First-Coater or Sealer for Wood or other Porous Surfaces Which are to be Varnished.
Claim use since Feb. 18, 1920.

Ser. No. 130,075. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEST COAST PICKLING & CANNING CO., Los Angeles, Calif. Filed Mar. 22, 1920.

EXCEPTIONAL

Particular description of goods.—Canned Fruits—Namely, Canned Peaches and Canned Apricots; Canned Vegetables—Namely, Canned Tomatoes with Purée from Trimmings—and Canned Sauer-Kraut.
Claims use since June 20, 1919.

Ser. No. 130,081. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ARMSTRONG CORK COMPANY, Pittsburgh and Lancaster, Pa. Filed Mar. 23, 1920.

CORKIDE

Particular description of goods.—Artificial Leather Particularly for Use in the Manufacture of Traveling-Bags, Trunks, Upholstery-Covering, Tops for Automobiles, Wagons, and Various other Purposes.
Claims use since Mar. 17, 1920.

Ser. No. 130,092. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE DUNLOP RUBBER COMPANY LIMITED, London, England. Filed Mar. 23, 1920.

MAGNUM

Particular description of goods.—Tires Made of India-Rubber or in Which India-Rubber Predominates.
Claims use since about Oct. 1, 1914.

Ser. No. 130,111. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVID B. WEINSTEIN, Chicago, Ill. Filed Mar. 23, 1920.

Kickoff

Particular description of goods.—Candy Tablets.
Claims use since Feb. 2, 1920.

Ser. No. 130,130. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DURO COMPANY, East Orange, N. J. Filed Mar. 24, 1920.

DURO

Particular description of goods.—Spark-Plug and Contact-Point Cleaner.
Claims use since Dec. 1, 1919.

Ser. No. 130,206. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHELSEA ENGINEERING SALES CORPORATION, New York, N. Y. Filed Mar. 26, 1920.



Particular description of goods.—Bells other Than Electric, Bolts, Brads, Metal Buckets, Chains, Cocks, Couplings for Pipe and Hose, Dustpans, Faucets, Pipe-Flanges, House-Funnels, Gromets, Handles for Doors and Boxes, Hasps, Hinges, Iron-Pipe Hooks, Metal Letters and Metal Figures, Metal Door-Mats, Nails, Nuts, Brass Nozzles, Metal Pipe, Rivets, Screws, Chain Shackles, Spikes, Staples, Belt-Studs, Tacks, Metal Valves for General Use, Metal Washers, and Wire-Cloth.
Claims use since about October, 1918.

Ser. No. 130,209. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHELSEA ENGINEERING SALES CORPORATION, New York, N. Y. Filed Mar. 26, 1920.



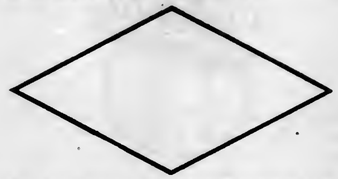
Particular description of goods.—Countersinks, Crowbars, Dies, Files, Gimlets, Hacksaw-Frames, Hacksaw-Blades, Hatchets, Hoists, Kitchen, Pen, and Butcher Knives; Ladles Used for Dipping Melting Solder, Mallets, Mattocks, Mauls, Picks, Planes, Pliers, Belt-Punches, Pulleys, Rasps, Reamers, Ratchets, Saws, Saw-Sets, Scissors, Scrapers, Screw-Drivers, Shears, Shovels, Snips, Sledges, Grease-Cups, Glass-Cutters, Pipe-Cutters, Tube-Expanders, Pyrene Fire-Extinguishing Syringes, Machine-Hammers, Claw-Hammers, Tool-Handles, Firing-Hoes, Plain Soldering-Coppers, Stocks and Dies, Taps, Tongs, Trowels, Wedges, and Wrenches.
Claims use since about October, 1918.

Ser. No. 130,220. (CLASS 12. CONSTRUCTION MATERIALS.) HURON PORTLAND CEMENT COMPANY, Detroit, Mich. Filed Mar. 26, 1920.



The word "Huron" appearing in red and the words "Huron Portland Cement Company" appearing upon a blue annular band, the narrow annular bands spaced inside and outside of the wide annular band being also blue and the strips extending above and below the word "Huron" being likewise blue.
Particular description of goods.—Portland Cement.
Claims use since about January, 1907.

Ser. No. 130,247. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass. Filed Mar. 26, 1920.



Particular description of goods.—Nails and Tacks.
Claims use since about Nov. 1, 1914.

Ser. No. 130,286. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE OHIO RUBBER CO., Cincinnati, Ohio. Filed Mar. 27, 1920.

RAMBLER

Particular description of goods.—Inner Tubes.
Claims use since October, 1919.

Ser. No. 130,311. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN TAP AND DIE CO., Greenfield, Mass. Filed Mar. 29, 1920. Under ten-year proviso.

NICHOLS BROS.' BRAND

Particular description of goods.—Butchers' Knives, Grocers' Knives, Fish-Knives, Chefs' Knives, Bakers' Knives, Painters' Knives, Cleavers, and Steels.
Claims use since about Dec. 1, 1889.

Ser. No. 130,319. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL K. CONDRELL, Kenmore, N. Y. Filed Mar. 29, 1920.

FRUITARS

Particular description of goods.—Fruit-Juice Candy Tablets.
Claims use since Mar. 1, 1920.

Ser. No. 130,355. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SAMUEL BERNSTEIN, New York, N. Y. Filed Mar. 30, 1920.

NOXAL

Particular description of goods.—Washing Compound in Solid and Powder Form, Used for the Same General Purposes as Soap, but Not Used as a Polish for Metals.
Claims use since January, 1920.

Ser. No. 130,361. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BLUMAUER-FRANK DRUG COMPANY, Portland, Oreg. Filed Mar. 30, 1920.

Purola

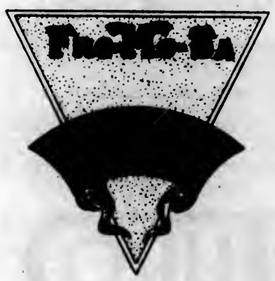
Disclaims the words "Trade-Mark Reg." which are shown in the official drawing filed herewith.
Particular description of goods.—Shaving-Cream, (a Soft Free-Lathering Non-Alkaline Perfumed Soap,) Shampoo-Soap, and Antiseptic Soap.
Claims use since November, 1911.

Ser. No. 130,367. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HOLT MANUFACTURING COMPANY, Stockton, Calif. Filed Mar. 30, 1920. Under ten-year proviso.

HOLT

Particular description of goods.—Wagons, Trailers, Radiators for Use on Motor-Vehicles.
Claims use since 1883.

Ser. No. 130,457. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JACOB WEXLER, St. Louis, Mo. Filed Mar. 31, 1920.



Particular description of goods.—Furniture and Automobile Polish or Gloss for Any Woodwork.
Claims use since on or about Jan. 1, 1919.

Ser. No. 130,481. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LISTERATED GUM CORPORATION, New York, N. Y. Filed Apr. 1, 1920.

Lister-Mint

No claim being made to the word "Mint" alone.
Particular description of goods.—Chewing-Gum and Candy.
Claims use since Mar. 1, 1915.

Ser. No. 130,494. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) RACINE RUBBER COMPANY, Racine, Wis. Filed Apr. 1, 1920.

COUNTRY ROAD

Particular description of goods.—Rubber or Rubber and Fabric Tires and Tubes for Vehicles.
Claims use since June 1, 1913.

Ser. No. 130,550. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) OSHKOSH MOTOR TRUCK MFG. CO., Oshkosh, Wis. Filed Apr. 2, 1920.

OSHKOSH 4-WHEEL-DRIVE

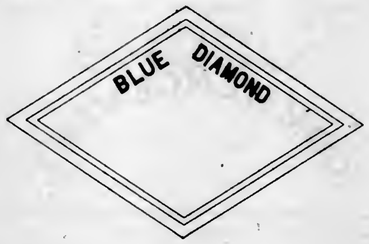
No claim is made to the term "4-Wheel-Drive" apart from the arrangement as shown in the drawing.
Particular description of goods.—Motor-Vehicles, Automobiles, and Motor-Trucks.
Claims use since on or about Jan. 1, 1919.

Ser. No. 130,600. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HARRIET W. KNIGHT, New York, N. Y. Filed Apr. 3, 1920.

LUCKY CALL ME

Particular description of goods.—Concealing Device for Telephones.
Claims use since Aug. 1, 1919.

Ser. No. 130,633. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WOLTER BROS., Peoria, Ill. Filed Apr. 3, 1920.



Particular description of goods.—Potatoes in Their Natural State.
Claims use since Feb. 1, 1920.

Ser. No. 130,638. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ARROW-GRIP MANUFACTURING CO., INC., Glens Falls, N. Y. Filed Apr. 5, 1920.

ARROW-GRIP

Particular description of goods.—Lifting-Jacks.
Claims use since Jan. 20, 1919.

Ser. No. 130,701. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) G. C. THOMSEN & A. A. ADAMS, Waco, Tex. Filed Apr. 5, 1920.

DYO

Particular description of goods.—A Polish for Incidentally Dyeing Leather.
Claims use since Mar. 12, 1920.

Ser. No. 130,727. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MEEK OVEN MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 6, 1920.



No claim being made to "Original Meek Reel Oven" apart from the mark shown.
Particular description of goods.—Ovens for Baking Bread.
Claims use since 1906.

Ser. No. 130,768. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE NATIONAL PRESSED STEEL COMPANY, Massillon, Ohio. Filed Apr. 7, 1920.



No claim is made for the word "Steels" apart from the mark shown on the drawing.
Particular description of goods.—Steel in the Form of Hot-Rolled Strips and Light Plates.
Claims use since about July 30, 1919.

Ser. No. 130,778. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TIOGA MANUFACTURING COMPANY, Philadelphia, Pa. Filed Apr. 7, 1920.



Particular description of goods.—Farm-Tractors.
Claims use since Feb. 16, 1920.

Ser. No. 130,779. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HOWARD VINCENT, Philadelphia, Pa. Filed Apr. 7, 1920.

"PDQ"

Particular description of goods.—Piano and Furniture Polish.
Claims use since Jan. 24, 1920.

Ser. No. 130,924. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. A. PATRICK & Co., Duluth, Minn. Filed Apr. 9, 1920.



The shade-lines in the drawing indicate shading and do not indicate color.
Particular description of goods.—Cretonnes and Silkolines, Both in the Piece.
Claims use since Jan. 1, 1920.

Ser. No. 130,927. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) F. A. PATRICK & Co., Duluth, Minn. Filed Apr. 9, 1920.

Patrick

Consists of the surname "Patrick" in the form illustrated in the accompanying drawing, which shows a facsimile of the handwriting of Fred A. Patrick, who is the president of the corporation.
Particular description of goods.—Tailors' Garment-Pressing Machines.
Claims use since Oct. 1, 1918.

Ser. No. 130,969. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBERT H. LINTON, New York, N. Y. Filed Apr. 10, 1920.

DURODYE

Particular description of goods.—Cotton and Woolen Piece Goods.
Claims use since May 1, 1919.

Ser. No. 131,038. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE P. D. GEORGE COMPANY, St. Louis, Mo. Filed Apr. 12, 1920.

PEDIGREE

Particular description of goods.—Varnish.
Claims use since about Jan. 24, 1920.

Ser. No. 131,093. (CLASS 12. CONSTRUCTION MATERIALS.) STOWELL MANUFACTURING CO., Jersey City, N. J. Filed Apr. 13, 1920.

EUREKA

Consisting of the word "Eureka."
Particular description of goods.—Non-Metallic Fire-Proof Sheet Roofing Materials and Roofing-Shingles.
Claims use since September, 1906.

Ser. No. 131,094. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) CALVIN VOS, New York, N. Y. Filed Apr. 13, 1920.

VULMITE

Particular description of goods.—Metal Alloys and Steel and Iron Castings and Forgings.
Claims use since September, 1919.

Ser. No. 131,134. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRIPPE, BARKER & Co., New York, N. Y. Filed Apr. 14, 1920.

COMMENCEMENT

Particular description of goods.—Organdie Piece Goods.
Claims use since about Mar. 1, 1920.

Ser. No. 131,140. (CLASS 33. GLASSWARE.) BERNEY-BOND GLASS COMPANY, Clarion, Pa. Filed Apr. 15, 1920.

B-B

Particular description of goods.—Glass Bottles.
Claims use since Jan. 1, 1920.

Ser. No. 131,169. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HERCULES FOUNDRIES INC., Huntington Park, Calif. Filed Apr. 15, 1920.

HERCO

Particular description of goods.—Cast-Iron Pipe-Fittings.
Claims use since Jan. 2, 1920.

Ser. No. 131,170. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HERCULES FOUNDRIES INC., Huntington Park, Calif. Filed Apr. 15, 1920.



Particular description of goods.—Cast-Iron Pipe-Fittings.
Claims use since July 1, 1914.

Ser. No. 131,171. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HERCULES FOUNDRIES INC., Huntington Park, Calif. Filed Apr. 15, 1920.

SHUCO

Particular description of goods.—Cast-Iron Pipe-Fittings.
Claims use since January, 1916.

Ser. No. 131,175. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUTH B. JOHNSON, Beach Bluff, Mass. Filed Apr. 15, 1920.

Dutch Cottage CANDIES

Consisting of the word-symbol "Dutch Cottage" shown in the accompanying drawing, all right to the exclusive use of the word "Candies" being disclaimed.
Particular description of goods.—Candy and Confectionery—Namely, Chocolate-Coated Candy, Caramel, Fudge, Panocha, and Cream Peppermints.
Claims use since about June 1, 1919.

Ser. No. 131,232. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) LEWIS SYLVESTER PACKWOOD, Los Angeles, Calif. Filed Apr. 16, 1920.



The words "Keep Your Business to Yourself and Grow" are disclaimed.
Particular description of goods.—Machinery-Patterns.
Claims use since Dec. 1, 1919.

Ser. No. 131,238. (CLASS 12. CONSTRUCTION MATERIALS.) THE UNION METAL MANUFACTURING COMPANY, Canton, Ohio. Filed Apr. 16, 1920.

UNION

Particular description of goods.—Metal Columns for Building Purposes.
Claims use since July 5, 1907.

Ser. No. 131,259. (CLASS 43. THREAD AND YARN.) DE LUXE THREAD CORP., New York, N. Y. Filed Apr. 17, 1920.

SOWELL

Consisting of the word "Sowell."
Particular description of goods.—Sewing-Cotton.
Claims use since Mar. 19, 1920.

Ser. No. 131,337. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Apr. 19, 1920.

"SHIRLASTIC"

Particular description of goods.—Dress-Shields and Garters.
Claims use since Mar. 12, 1920.

Ser. No. 131,353. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAX C. PELTASON, Chicago, Ill. Filed Apr. 19, 1920.



Exclusive use of the word "Brand" is disclaimed apart from the mark shown in the drawing, the portrait shown being fanciful.

Particular description of goods.—Powdered Milk.

Claims use since Nov. 5, 1919.

Ser. No. 131,424. (CLASS 33. GLASSWARE.) HIRSCH-MALGOOD CO. INC., New York, N. Y. Filed Apr. 21, 1920.



The mark is never shown in red or in white on a red background.

Particular description of goods.—Combined Glass Spoons and Sippers.

Claims use since about June, 1916.

Ser. No. 131,447. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NATIONAL PICTURE THEATRES INC., New York, N. Y. Filed Apr. 21, 1920.



No claim is made to the exclusive use of the word "Pictures" apart from the mark shown in the drawing.

Particular description of goods.—Motion-Picture Films.

Claims use since Feb. 17, 1920.

Ser. No. 131,458. (CLASS 12. CONSTRUCTION MATERIALS.) ANDERSEN LUMBER COMPANY, Hudson, Wis., and South Stillwater, Minn. Filed Apr. 22, 1920.



The exclusive use of the surname "Andersen" apart from the mark shown is expressly disclaimed. The field of the mark is blue, the ring and bar are red, while the letters are white.

Particular description of goods.—Wooden Window and Door Frames.

Claims use since July 1, 1917.

Ser. No. 131,480. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VANCE JOSEPH HOYT, Los Angeles, Calif. Filed Apr. 22, 1920.



Particular description of goods.—Baby Food, Said Baby Food Being Composed of Certain California Cereals and other Ingredients.

Claims use since June 1, 1918.

Ser. No. 131,532. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MILWAUKEE STEEL FOUNDRY COMPANY, Milwaukee, Wis. Filed Apr. 23, 1920.

MILWASTEEL

Particular description of goods.—Metal Castings, and Specifically Castings Made of Steel and Iron, and Alloys of Steel and Iron.

Claims use since Apr. 9, 1920.

Ser. No. 131,533. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MILWAUKEE STEEL FOUNDRY COMPANY, Milwaukee, Wis. Filed Apr. 23, 1920.

MILWALOY

Particular description of goods.—Metal Castings, and Specifically Castings Made of Steel and Iron, and Alloys of Steel and Iron.

Claims use since Apr. 9, 1920.

Ser. No. 131,562. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUGLER & GOEBEL COMPANY, Chicago, Ill. Filed Apr. 24, 1920.



No claim is made to the exclusive right to the use of the word "Nut" apart from the mark shown.

Particular description of goods.—An Edible Composition for Use as an Ingredient of Candies.

Claims use since Mar. 10, 1919.

Ser. No. 131,594. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL ROSEN, Orange, N. J. Filed Apr. 24, 1920.

LE ROI

Particular description of goods.—Candy.

Claims use since November, 1919.

Ser. No. 131,706. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HARRY A. KNAPP, Brooklyn, N. Y. Filed Apr. 27, 1920.



The lining thereon merely representing shading and no claim being made to the wording on the drawing except to the words "Globe Specialties Co." and the word "Rosanativo."

Particular description of goods.—Soap.

Claims use since Apr. 16, 1920.

Ser. No. 131,766. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AMERICAN METALS CORPORATION, Indianapolis, Ind. Filed Apr. 29, 1920.

AMCO

Particular description of goods.—Automobile-Radiator Shutters.

Claims use since December, 1919.

Ser. No. 131,789. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREEPORT CONDENSED MILK CO., Chicago, Ill. Filed Apr. 29, 1920.

GOLDEN GLOW

Particular description of goods.—Evaporated Milk.

Claims use since Mar. 5, 1920.

Ser. No. 131,841. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) VAUGHN M. MCVEY, Lincoln, Nebr. Filed Apr. 29, 1920.

LUSTERINE

Particular description of goods.—Liquid Preparations for Cleaning and Polishing Enameled Surfaces.

Claims use since Aug. 1, 1919.

Ser. No. 131,865. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HERSCHELL-SPILLMAN MOTOR COMPANY, North Tonawanda, N. Y. Filed Apr. 30, 1920.



"The Pick of the Field"

No claim being made to the word "Motors" apart from the mark as shown.

Particular description of goods.—Gasolene-Motors.

Claims use since about Feb. 1, 1920.

Ser. No. 131,923. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SHUGERS MFG. CO., Los Angeles, Calif. Filed May 1, 1920.



Particular description of goods.—Automobile Tops and Curtains and Top and Curtain Windows.

Claims use since Apr. 1, 1920.

Ser. No. 131,927. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TYLER CHEMICAL COMPANY, Pawtucket, R. I. Filed May 1, 1920.



The word "Trade Mark" appearing on the drawing does not form a part of the mark and is expressly disclaimed.

Particular description of goods.—A Preparation for Cleansing Purposes for Textile Fabrics of All Kinds and Also Kid Shoes, Kid Gloves, Leather, and Feathers.

Claims use since Oct. 1, 1919.

Ser. No. 132,004. (CLASS 12. CONSTRUCTION MATERIALS.) THE BEAVER COMPANY, Buffalo, N. Y. Filed May 4, 1920.

BIVER BORD

No claim being made to the word "Bord" apart from the mark shown in the drawing.

Particular description of goods.—Wall-Board and Building-Paper.

Claims use since Apr. 20, 1920.

Ser. No. 132,059. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PATRICK-YOUNG COMPANY, Richmond, Va. Filed May 5, 1920.

HERMITAGE

Particular description of goods.—Lard, Ham, and Bacon.

Claims use since Feb. 1, 1920.

Ser. No. 132,092. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE GENERAL WOODWORK CO., INC., Cincinnati, Ohio. Filed May 6, 1920.



Particular description of goods.—Closed Cabs for Motor-Vehicles.

Claims use since Jan. 1, 1920.

Ser. No. 132,138. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) DEAN & WILLIAMS CO., Chicago, Ill. Filed May 7, 1920.

BLACK ◆ DIAMOND

Particular description of goods.—Combination Garment-Hanger.

Claims use since Jan. 1, 1920.

Ser. No. 132,144. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAN AMERICAN COFFEE CO., Detroit, Mich. Filed May 7, 1920.

ROBICO

Consisting of the word "Robico."

Particular description of goods.—Coffee.

Claims use since January, 1920.

Ser. No. 132,150. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SUMMERILL TUBING COMPANY, Bridgeport, Pa. Filed May 7, 1920.



Which is lined for the purposes of shading only, and no claim being made to the section of tubing apart from the mark as shown.

Particular description of goods.—Base-Metal Tubing.

Claims use since Sept. 3, 1919.

Ser. No. 132,159. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. AUERBACH & SONS, New York, N. Y. Filed May 8, 1920.

CAPRICE

Particular description of goods.—Chocolates.

Claims use since 1914.

Ser. No. 132,168. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) V. V. CAMPBELL, Oklahoma, Okla. Filed May 8, 1920.



Particular description of goods.—Flavoring Extracts for Foods and Dessert Preparations—Namely, Pie-Filling.

Claims use since January, 1918.

Ser. No. 132,183. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LUX MANUFACTURING CO., New York, N. Y., and Newark, N. J. Filed May 8, 1920.



Particular description of goods.—Electric Lamps.

Claims use since Apr. 5, 1912.

Ser. No. 132,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORWOOD CANNING AND MANUFACTURING CO., Norwood, La. Filed May 8, 1920.

NORLA

Particular description of goods.—Canned Fruit and Canned Vegetables.

Claims use since 1913.

Ser. No. 132,218. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) A. HAROLD ZAYOTTI, Philadelphia, Pa. Filed May 8, 1920.



Particular description of goods.—Worsted Waste and Noils.

Claims use since January, 1920.

Ser. No. 132,259. (CLASS 46. FOODS and INGREDIENTS OF FOODS.) MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y. Filed May 10, 1920.

Rings

Consists of the word "Rings."

Particular description of goods.—Hard Panned Candy.

Claims use since Jan. 9, 1920.

Ser. No. 132,280. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed May 10, 1920.

RASBERILADE

Particular description of goods.—Jam, Jelly, Fruit Preserves, and Conserves.

Claims use since Apr. 22, 1920.

Ser. No. 132,286. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HARRY ANDERSON ASTLETT, New York, N. Y. Filed May 11, 1920.

HASCO

Particular description of goods.—Metal Clasps or Fasteners.

Claims use since 1918.

Ser. No. 132,333. CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed May 11, 1920.

STRAWBERILADE

Particular description of goods.—Jam, Jelly, Fruit Preserves, and Conserves.

Claims use since Apr. 22, 1920.

Ser. No. 132,349. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FEDERAL CONDENSED MILK COMPANY, Seattle, Wash. Filed May 12, 1920.

GOLD COIN

Particular description of goods.—Evaporated Milk.

Claims use since Apr. 19, 1920.

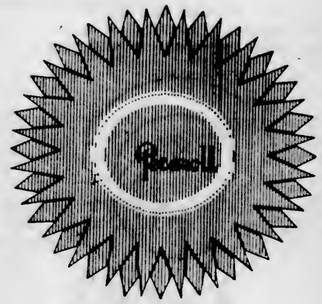
Ser. No. 132,357. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HALLIGAN CANDY COMPANY, Davenport, Iowa. Filed May 12, 1920.

UP-TO-THE-MINUTE

Particular description of goods.—Chocolate-Bar Candy.

Claims use since January, 1915.

Ser. No. 132,361. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALMER CANDY CO., Sioux City, Iowa. Filed May 12, 1920.



The mark is lined for red.

Particular description of goods.—Candy—Namely, Pecan Caramel-Rolls.

Claims use since Mar. 30, 1920.

Ser. No. 132,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRIVATE ESTATE COFFEE COMPANY, New York, N. Y. Filed May 12, 1920.

PRIVESCO

Consisting of the coined word "Privesco."

Particular description of goods.—Cocoa.

Claims use since January, 1912.

Ser. No. 132,363. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRIVATE ESTATE COFFEE COMPANY, New York, N. Y. Filed May 12, 1920.

PRIVATE ESTATE

Consisting of the words "Private Estate."

Particular description of goods.—Coffee, Tea, Olive-Oil, Spice, and Cocoa.

Claims use since March, 1899.

Ser. No. 132,420. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALUMINUM BRAZING SOLDER COMPANY, Philadelphia, Pa. Filed May 14, 1920.

PETERS

Particular description of goods.—Metallic Fillers.

Claims use since on or about Apr. 14, 1920.

Ser. No. 132,452. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed May 14, 1920.



Particular description of goods.—Candy.

Claims use since June, 1906.

Ser. No. 132,465. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAMPBELL PRODUCTS CORPORATION, Oklahoma, Okla. Filed May 15, 1920.



Particular description of goods.—Flavoring Extracts, Egg Substitute, and Pie-Fillers.

Claims use since about October, 1919.

Ser. No. 132,477. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINT PRODUCTS CO., INC., New York, N. Y. Filed May 15, 1920.

PATS

Consisting of the word "Pats."

Particular description of goods.—Candy—viz.: Fruit Tablets.

Claims use since Jan. 10, 1920.

Ser. No. 132,491. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONSTANTINE SCOURBY, New York, N. Y. Filed May 15, 1920.

Park

Particular description of goods.—Chocolates, Bonbons, and Candies.

Claims use since about April, 1915.

Ser. No. 132,504. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISCEGLIA BROTHERS, San Jose, Calif. Filed May 17, 1920.

ROMA

Particular description of goods.—Canned Fruits and Canned Vegetables.

Claims use since October, 1919.

Ser. No. 132,528. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GOLDEN PHEASANT, San Francisco, Calif. Filed May 17, 1920.



Particular description of goods.—Candy.

Claims use since Mar. 15, 1920.

Ser. No. 132,550. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTLAND PRODUCTS COMPANY, South Portland, Me. Filed May 17, 1920.

FISHER QUEEN

Particular description of goods.—Sardines.

Claims use since May 10, 1917.

Ser. No. 132,551. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTLAND PRODUCTS COMPANY, South Portland, Me. Filed May 17, 1920.

VILLAGE QUEEN

Particular description of goods.—Sardines.

Claims use since June 26, 1918.

Ser. No. 132,575. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TIBBITTS-HEWITT GROCERY CO., St. Louis, Mo. Filed May 17, 1920.

TOPMOST

Particular description of goods.—Canned Fruits, Canned Vegetables, and Canned Fish.

Claims use since Apr. 10, 1920.

Ser. No. 132,596. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DOROTHY DODD SHOE COMPANY, Boston, Mass. Filed May 18, 1920.

Dorothy Dodd

Particular description of goods.—Shoe-Laces and Button-Hooks Not Made of Precious Metal.

Claims use since January, 1902, on shoe-laces; since April, 1911, on shoe-horns and button-hooks.

Ser. No. 132,604. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HARLEY SOAP COMPANY, Philadelphia, Pa. Filed May 18, 1920.

HARCO

Particular description of goods.—Automobile-Soap.

Claims use since about Oct. 1, 1919.

Ser. No. 132,618. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed May 18, 1920.

BLACKBERILADE

Particular description of goods.—Jam, Jelly, Fruit Preserves, and Conserves.

Claims use since Apr. 29, 1920.

Ser. No. 132,629. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES ALEXANDER CLARK, New York, N. Y. Filed May 19, 1920.

FIFTY-FIFTY

Particular description of goods.—Soap.

Claims use since Dec. 19, 1918.

Ser. No. 132,712. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TYSON & CO., Paris, Tenn. Filed May 20, 1920.

La Dainty

Particular description of goods.—Soap.

Claims use since Feb. 1, 1920.

Ser. No. 132,753. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed May 21, 1920.

EVEREADY

Particular description of goods.—Electric Meters.

Claims use since May 15, 1909.

Ser. No. 132,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MYERS, DARLING & HINTON CO., Los Angeles, Calif. Filed May 22, 1920.

PALMITAS

Particular description of goods.—Fresh Fruits—Namely, Pears.

Claims use since July, 1919.

Ser. No. 132,813. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RED WING COMPANY, INC., Fredonia, N. Y. Filed May 22, 1920.



Particular description of goods.—Apple-Butter.

Claims use since Jan. 7, 1920.

Ser. No. 132,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRIFFITH-DURNEY CO., San Francisco, Calif. Filed May 22, 1920.

CYPRESS

Particular description of goods.—Canned Fruits, Canned Vegetables, and Canned Milk.

Claims use since Nov. 9, 1919.

Ser. No. 132,826. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEABOARD COMMERCIAL CO., Seattle, Wash. Filed May 22, 1920.

SEACOMCO

Particular description of goods.—Canned Salmon.

Claims use since May 8, 1919.

Ser. No. 132,863. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HEATON-PENINSULAR BUTTON FASTENER CO., Boston, Mass. Filed May 24, 1920.

"HEATON'S"

Consisting of the word "Heaton's."

Particular description of goods.—Three-Pronged-Button Fasteners.

Claims use since July, 1877.

Ser. No. 132,864. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOOPER SONS' MANUFACTURING COMPANY, Philadelphia, Pa. Filed May 24, 1920.

BLUE STRIPE

The trade-mark consists of the words "Blue Stripe," accompanied by the representation of a blue stripe.

Particular description of goods. — Dish-Cloths, Scrub-Cloths, Sponge-Cloths, Cotton Duck, Cider-Press Cloth, Oil-Press Cloth, Cotton Webbing, and Knitted Netting.

Claims use since Dec. 5, 1914.

Ser. No. 132,904. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WICKS & CO., INC., Houston, Tex. Filed May 24, 1920.



Particular description of goods.—Candies.

Claims use since Feb. 1, 1920.

Ser. No. 132,910. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. E. BURSLEY & COMPANY, Fort Wayne, Ind. Filed May 25, 1920.

OROMO

Particular description of goods.—Coffee.

Claims use since June 1, 1916.

Ser. No. 132,929. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HASKINS BROS. & COMPANY, Sioux City, Iowa, and Omaha, Nebr. Filed May 25, 1920.



The drawing being lined for blue.

Particular description of goods.—Toilet Soap.

Claims use since October, 1919.

Ser. No. 133,064. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHENIX CHEESE COMPANY, New York, N. Y. Filed May 28, 1920.



Particular description of goods.—Cheese.

Claims use since May 12, 1920.

Ser. No. 133,209. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM T. GILLETT, Tillamook, Oreg. Filed June 3, 1920.

SHUREGO

Particular description of goods.—A Soap.

Claims use since Jan. 1, 1920.

Ser. No. 133,217. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JAMES A. HARPS, Greenfield, Ohio. Filed June 3, 1920.

SPRINGO

Particular description of goods.—Suspenders.

Claims use since Apr. 14, 1920.

Ser. No. 133,422. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOSEPH HENRY KARP, New York, N. Y. Filed June 8, 1920.

Noble-Heart

Particular description of goods.—Cake, Bar, Paste, Liquid, and Powder Soaps.

Claims use since May 1, 1919.

Ser. No. 133,500. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SAYLOR & CO., Reading, Pa. Filed June 9, 1920.



No claim is made to the words "Shoe Laces" and no claim is made to the word "Saylor" apart from the mark shown in the drawing.

Particular description of goods.—Shoe-Laces.

Claims use since June 3, 1920.

TRADE-MARK REGISTRATIONS GRANTED

JULY 13, 1920.

133,097. SPARK-PLUGS. AIRCRAFT & MOTOR PRODUCTS CO., New York, N. Y.
Filed March 21, 1919. Serial No. 116,759. PUBLISHED FEBRUARY 10, 1920.

133,098. TIMEPIECES. FRANK W. ALTER, Chicago, Ill.
Filed November 13, 1919. Serial No. 124,838. PUBLISHED APRIL 6, 1920.

133,099. WOMEN'S, MISSES', AND CHILDREN'S TRIMMED HATS. DAVID BAIRD AND SON, Louisville, Ky.
Filed December 26, 1919. Serial No. 126,442. PUBLISHED APRIL 13, 1920.

133,100. CLOCK AND WATCH DIALS. THEODORE BARGMAN, Detroit, Mich.
Filed March 29, 1919. Serial No. 117,003. PUBLISHED APRIL 6, 1920.

133,101. TYPEWRITERS. THE BLICKENSDERFER MANUFACTURING COMPANY (now by judicial change of name The Blick Typewriter Company), Stamford, Conn.
Filed November 7, 1919. Serial No. 124,638. PUBLISHED APRIL 13, 1920.

133,102. CERTAIN NAMED METALS AND METAL CASTINGS AND FORGINGS. BLUE RIDGE METALS CORPORATION, Roanoke, Va., and Pittsburgh, Pa.
Filed November 12, 1919. Serial No. 124,783. PUBLISHED APRIL 13, 1920.

133,103. DISTILLED ALCOHOLIC LIQUORS. BOORD & SON (INCORPORATED), London, England.
Filed August 3, 1918. Serial No. 112,486. PUBLISHED DECEMBER 9, 1919.

133,104. CERTAIN NAMED TABLE AND FANCY GLASSWARE. GEORGE BORGFELDT & CO., New York, N. Y.
Filed July 18, 1919. Serial No. 120,659. PUBLISHED APRIL 13, 1920.

133,105. CERTAIN NAMED TOYS. OLIVER M. BURTON, Chicago, Ill.
Filed December 15, 1919. Serial No. 126,002. PUBLISHED APRIL 13, 1920.

133,106. COMPRESSOR-VALVES. BURY COMPRESSOR COMPANY, Erie, Pa.
Filed December 22, 1919. Serial No. 126,302. PUBLISHED APRIL 13, 1920.

133,107. CERTAIN NAMED ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. CHERRY TREE MACHINE COMPANY, Cherry Tree borough, Pa.
Filed January 13, 1920. Serial No. 127,081. PUBLISHED APRIL 6, 1920.

133,108. CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF. CHICAGO PNEUMATIC TOOL COMPANY, Chicago, Ill.
Filed August 18, 1919. Serial No. 121,752. PUBLISHED APRIL 6, 1920.

133,109. CERTAIN NAMED CLOTHING. CISCO, INC., New York, N. Y.
Filed January 15, 1920. Serial No. 127,170. PUBLISHED APRIL 13, 1920.

133,110. COMPUTING CHEESE-CUTTERS. COMPUTING CHEESE CUTTER CO., Anderson, Ind.
Filed December 20, 1919. Serial No. 126,271. PUBLISHED APRIL 6, 1920.

133,111. CANDY. CLARENCE A. CRANE, Cleveland, Ohio.
Filed December 16, 1919. Serial No. 126,103. PUBLISHED APRIL 6, 1920.

133,112. COMMUNICATION-BOARDS OR TALKING-BOARDS, SOMETIMES TERMED OUIJA-BOARDS. ALBERT S. CROCKETT, New York, N. Y.
Filed September 27, 1919. Serial No. 123,203. PUBLISHED FEBRUARY 10, 1920.

133,113. TWINES, STRING, AND CORDAGE, ALL GOODS BEING MADE FROM COTTON, JUTE, HEMP, AND FLAX. CHARLES C. DAVIS, Chicago, Ill.
Filed June 21, 1918. Serial No. 111,721. PUBLISHED APRIL 13, 1920.

133,114. BASEBALLS. J. DE BEER & SON, Albany, N. Y.
Filed November 13, 1919. Serial No. 124,851. PUBLISHED MARCH 2, 1920.

133,115. CERTAIN NAMED SURGICAL APPLIANCES. DENTAL PRODUCTS COMPANY, Chicago, Ill.
Filed December 19, 1919. Serial No. 126,245. PUBLISHED APRIL 13, 1920.

133,116. CORE-OILS AND ADHESIVE CORE COMPOUNDS. DETROIT SOLUBLE OIL CO., Detroit, Mich.
Filed October 27, 1919. Serial No. 124,206. PUBLISHED APRIL 13, 1920.

133,117. CERTAIN NAMED ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. J. E. DOCKENDORFF & CO., INC., New York, N. Y.
Filed August 12, 1919. Serial No. 121,568. PUBLISHED APRIL 6, 1920.

133,118. CERTAIN NAMED ELECTRICAL SUPPLIES. J. E. DOCKENDORFF & CO., INC., New York, N. Y.
Filed August 12, 1919. Serial No. 121,570. PUBLISHED APRIL 6, 1920.

133,119. CERTAIN NAMED ELECTRICAL SUPPLIES. J. E. DOCKENDORFF & CO., INC., New York, N. Y.
Filed August 12, 1919. Serial No. 121,572. PUBLISHED APRIL 6, 1920.

133,120. NICKEL-MANGANESE-ALLOY WIRE FOR ELECTRICAL PURPOSES. J. E. DOCKENDORFF & CO., INC., New York, N. Y.
Filed August 12, 1919. Serial No. 121,573. PUBLISHED MARCH 30, 1920.

133,121. COMPOSITION PACKING. PHILIP S. DODD, New York, N. Y.
Filed February 16, 1918. Serial No. 109,024. PUBLISHED MAY 20, 1919.

133,122. DRY MILK. THE DRY MILK COMPANY, New York, N. Y.
Filed September 26, 1919. Serial No. 123,158. PUBLISHED APRIL 6, 1920.

133,123. INNER TUBES FOR VEHICLE-TIRES. DURAL RUBBER CORPORATION, Flemington, N. J.
Filed February 16, 1918. Serial No. 109,025. PUBLISHED DECEMBER 3, 1918.

133,124. NON-FERROUS METAL INGOTS. EASTERN BRASS AND INGOT CORPORATION, Chicago, Ill.
Filed February 24, 1920. Serial No. 128,766. PUBLISHED APRIL 6, 1920.

133,125. PHOTOGRAPHIC FILM. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed December 22, 1919. Serial No. 126,310. PUBLISHED APRIL 6, 1920.

133,126. MEN'S, WOMEN'S, AND CHILDREN'S KNITTED UNDERWEAR, BOTH ONE AND TWO PIECE. EVERETT KNITTING WORKS, Lebanon, N. H.
Filed January 29, 1920. Serial No. 127,717. PUBLISHED APRIL 13, 1920.

133,127. HOSIERY. THE FAIR, Chicago, Ill.
Filed December 29, 1919. Serial No. 126,568. PUBLISHED APRIL 13, 1920.

133,128. CERTAIN NAMED COTTON PIECE GOODS. FEARING, WHITON & CO., INC., Boston, Mass.
Filed December 1, 1919. Serial No. 125,455. PUBLISHED MARCH 23, 1920.

133,129. IRON AND STEEL. FEDERAL TOOL & ALLOY STEEL CORPORATION, New York, N. Y.
Filed February 26, 1920. Serial No. 128,923. PUBLISHED APRIL 13, 1920.

133,130. MOLDERS' NAILS USED IN METAL FOUNDRIES. THE FOWLER NAIL CO., Seymour, Conn., assignor to The Fowler & Union Horse Nail Company, New Haven, Conn., a Corporation of Connecticut.
Filed February 2, 1920. Serial No. 127,856. PUBLISHED APRIL 13, 1920.

133,131. CERTAIN NAMED SANITARY GOODS FOR HOSPITAL AND HOME USE. MAUDE SINCLAIR GEORGE, St. Louis, Mo.
Filed October 23, 1919. Serial No. 124,108. PUBLISHED MARCH 16, 1920.

133,132. CERTAIN NAMED GAMES AND TOYS. THE A. C. GILBERT COMPANY, New Haven, Conn.
Filed June 26, 1919. Serial No. 119,974. PUBLISHED JANUARY 20, 1920.

133,133. CERTAIN NAMED MACHINERY AND TOOLS AND PARTS THEREOF. LEONARD L. GILCREASE, Reno, Nev.
Filed October 4, 1919. Serial No. 123,434. PUBLISHED APRIL 6, 1920.

133,134. GAS-HEATERS AND PARTS THEREOF—NAMELY, MANTLES AND CASTINGS. J. H. GRAYSON MFG. CO., Athens, Ohio, assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio, a Corporation of Ohio.
Filed December 4, 1919. Serial No. 125,570. PUBLISHED MARCH 23, 1920.

133,135. FOOD-CHOPPERS, COMBINATION MEAT AND FOOD CUTTERS, FRUIT AND LARD PRESSES, AND TOBACCO-CUTTERS. THE GRISWOLD MANUFACTURING COMPANY, Erie, Pa.
Filed November 10, 1919. Serial No. 124,717. PUBLISHED APRIL 6, 1920.

133,136. LAWN AND GARDEN SPRINKLING AND HORTICULTURAL IRRIGATION SYSTEMS, VALVES AND OTHER PARTS OF SUCH SYSTEMS. HADDEN AUTOMATIC SPRINKLER COMPANY, Los Angeles, Calif.
Filed November 1, 1919. Serial No. 124,440. PUBLISHED APRIL 6, 1920.

133,137. MOVING-PICTURE FILMS. SAMUEL H. HADLEY, New York, N. Y.
Filed December 30, 1919. Serial No. 126,633. PUBLISHED APRIL 6, 1920.

133,138. MOVING-PICTURE FILMS. CARL ELMER HALLGREN, Rock Island, Ill., and Davenport, Iowa.
Filed December 12, 1919. Serial No. 125,886. PUBLISHED APRIL 6, 1920.

133,139. CERTAIN NAMED HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS. HAMMER-BRAY CO., Oakland, Calif.
Filed November 17, 1919. Serial No. 124,988. PUBLISHED MARCH 23, 1920.

133,140. ELECTRICALLY-OPERATED GRINDERS FOR MILLSTONES. R. G. HASKINS COMPANY, Chicago, Ill.
Filed January 12, 1920. Serial No. 127,054. PUBLISHED APRIL 6, 1920.

133,141. COMPLETE TOILET AND MANICURE SETS AND PARTS THEREOF. HERCULEAN PRODUCTS COMPANY, Newark, N. J.
Filed September 3, 1919. Serial No. 122,249. PUBLISHED MARCH 30, 1920.

133,142. COMPLETE TOILET AND MANICURE SETS AND PARTS THEREOF. HERCULEAN PRODUCTS COMPANY, Newark, N. J.
Filed September 3, 1919. Serial No. 122,250. PUBLISHED MARCH 30, 1920.

133,143. ELECTRICALLY-DRIVEN BEATING AND MIXING MACHINES. THE HOBART MANUFACTURING COMPANY, Troy, Ohio.
Filed December 27, 1919. Serial No. 126,517. PUBLISHED APRIL 6, 1920.

133,144. CERTAIN NAMED BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES. IMPERIAL BELTING COMPANY, Chicago, Ill.
Filed June 17, 1919. Serial No. 119,707. PUBLISHED APRIL 20, 1920.

133,145. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES. IMPERIAL BELTING COMPANY, Chicago, Ill.
Filed August 22, 1919. Serial No. 121,896. PUBLISHED APRIL 27, 1920.

133,146. ROCK-DRILLS. INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y.
Filed November 29, 1919. Serial No. 125,423. PUBLISHED APRIL 6, 1920.

133,147. CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y.
Filed November 29, 1919. Serial No. 125,424. PUBLISHED APRIL 6, 1920.

133,148. CERTAIN NAMED PLUMBING AND STEAM-FITTING SUPPLIES. INTERNATIONAL COUPLERS COMPANY, Pittsburgh, Pa.
Filed May 5, 1919. Serial No. 118,149. PUBLISHED APRIL 13, 1920.

133,149. CERTAIN NAMED KNITTED, NETTED, AND TEXTILE FABRICS. JENNINGS LACE WORKS CORP., New York, N. Y.
Filed November 18, 1919. Serial No. 125,053. PUBLISHED APRIL 13, 1920.

133,150. CERTAIN NAMED OILS AND GREASES. JOHNSON OIL REFINING COMPANY, Chicago Heights, Ill.
Filed October 24, 1919. Serial No. 124,143. PUBLISHED APRIL 6, 1920.

133,151. SPUR-GEAR REDUCERS, WORM-GEAR SPEED-REDUCERS, POWER-TRANSMISSION MACHINERY USED IN CONNECTION WITH MACHINERY. W. A. JONES FOUNDRY & MACHINE CO., Chicago, Ill.
Filed October 10, 1919. Serial No. 123,648. PUBLISHED APRIL 6, 1920.

133,152. PAINTS, PIGMENTS, COLORS GROUND IN JAPAN, COLORS GROUND IN OIL, OIL-STAINS, LIQUID AND PASTE WOOD-FILLERS. KENT & PURDY PAINT COMPANY, St. Louis, Mo.
Filed July 11, 1919. Serial No. 120,461. PUBLISHED APRIL 20, 1920.

133,153. RUBBER TIRES AND TUBES. C. KENYON COMPANY, Brooklyn, N. Y.
Filed January 29, 1920. Serial No. 127,722. PUBLISHED APRIL 27, 1920.

133,154. WATCHES. KNICKERBOCKER WATCH CO., New York, N. Y.
Filed December 6, 1919. Serial No. 125,660. PUBLISHED APRIL 6, 1920.

133,155. TOILET CREAM FOR USE UPON THE SKIN. BEN E. LAPEYRE, Great Falls, Mont.
Filed December 2, 1918. Serial No. 114,451. PUBLISHED APRIL 6, 1920.

133,156. TUBE-PATCHES. THE LEACH PATCH COMPANY, Indianapolis, Ind.
Filed August 6, 1919. Serial No. 121,308. PUBLISHED FEBRUARY 3, 1920.

133,157. COLLODION SELF-TONING PRINTING-OUT PAPER. J. L. LEWIS, New York, N. Y.
Filed October 20, 1919. Serial No. 123,993. PUBLISHED APRIL 13, 1920.

133,158. CERTAIN NAMED DENTAL, MEDICAL, AND SURGICAL APPLIANCES. C. DEWITT LUKENS SURGICAL MANUFACTURING CO., St. Louis, Mo.
Filed November 26, 1919. Serial No. 125,320. PUBLISHED APRIL 6, 1920.

133,159. GREASE-CUPS. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,061. PUBLISHED APRIL 13, 1920.

133,160. GREASE-CUPS. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,064. PUBLISHED APRIL 13, 1920.

133,161. MECHANICAL LUBRICATORS. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,070. PUBLISHED APRIL 13, 1920.

133,162. TIRES AND TUBES OF RUBBER, RUBBER AND FABRIC, AND RUBBER COMPOSITION FOR AUTOMOBILES AND TRUCKS. THE MASON TIRE & RUBBER CO., Kent, Ohio.
Filed December 10, 1918. Serial No. 114,584. PUBLISHED NOVEMBER 4, 1919.

133,163. TUNGSTEN. METAL & THERMIT CORPORATION, Chrome, N. J.
Filed January 27, 1920. Serial No. 127,657. PUBLISHED APRIL 13, 1920.

133,164. BOTTLE-WASHING MACHINES. GEO. J. MEYER MANUFACTURING CO., Milwaukee, Wis.
Filed November 26, 1919. Serial No. 125,334. PUBLISHED APRIL 6, 1920.

133,165. MINIATURE THEATERS. EDWARD MOORE, New York, N. Y.
Filed February 15, 1919. Serial No. 115,882. PUBLISHED APRIL 13, 1920.

133,166. KNIT GLOVES. MORGAN KNITTING MILLS, INC., Newark, N. J., and New York, N. Y.
Filed January 20, 1920. Serial No. 127,385. PUBLISHED APRIL 13, 1920.

133,167. WOODEN SPOONS. JOHN H. MULHOLLAND, Philadelphia, Pa.
Filed November 20, 1919. Serial No. 125,114. PUBLISHED APRIL 13, 1920.

133,168. CERTAIN NAMED HARDWARE SUPPLIES. NATIONAL BRASS COMPANY, Grand Rapids, Mich.
Filed October 27, 1919. Serial No. 124,227. PUBLISHED APRIL 13, 1920.

133,169. CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. NATIONAL EQUIPMENT COMPANY, Springfield, Mass.
Filed January 6, 1919. Serial No. 115,018. PUBLISHED APRIL 6, 1920.

133,170. PRINTED SHEETS CONTAINING ILLUSTRATIONS AND DESCRIPTIVE MATTER, ISSUED FROM TIME TO TIME. THE NATIONAL GEOGRAPHIC SOCIETY, Washington, D. C.
Filed September 11, 1919. Serial No. 122,576. PUBLISHED FEBRUARY 10, 1920.

133,171. SCREW-MACHINES AND CHUCKING-MACHINES. THE NEW BRITAIN MACHINE COMPANY, New Britain, Conn.
Filed December 17, 1919. Serial No. 126,193. PUBLISHED APRIL 13, 1920.

133,172. AUTOMATIC SPRINKLERS. ROBERT WILKINSON NEWTON, Providence, R. I.
Filed October 27, 1919. Serial No. 124,226. PUBLISHED APRIL 6, 1920.

133,173. DOLLS. NEW TOY CO., INC., New York, N. Y.
Filed July 5, 1919. Serial No. 120,285. PUBLISHED MARCH 9, 1920.

133,174. CERTAIN NAMED PREPARED SEA FOODS. CHARLES NOBLE JR. COMPANY, Buffalo, N. Y.
Filed August 18, 1917. Serial No. 105,719. PUBLISHED APRIL 6, 1920.

133,175. ALLOYS OF COPPER, TIN, AND ZINC AND PHOSPHOR-BRONZE IN INGOTS, CASTINGS, AND FINISHED FORMS. THE PHOSPHOR BRONZE SMELTING COMPANY, Philadelphia, Pa.
Filed January 26, 1918. Serial No. 108,657. PUBLISHED APRIL 13, 1920.

133,176. CERTAIN NAMED CLOTHING. LOUIS POTTER, New York, N. Y.
Filed November 12, 1919. Serial No. 124,804. PUBLISHED APRIL 6, 1920.

133,177. PIG-TIN. RICHARDS & CO., INCORPORATED, Boston, Mass.
Filed December 17, 1919. Serial No. 126,196. PUBLISHED APRIL 6, 1920.

133,178. CERTAIN NAMED SUPPLIES FOR AVIATORS. A. V. ROE & CO. LTD., Manchester, England.
Filed November 30, 1918. Serial No. 114,434. PUBLISHED MARCH 2, 1920.

133,179. MEN'S FELT HATS. FRANK SCHOBLE & CO., Philadelphia, Pa.
Filed July 3, 1919. Serial No. 120,263. PUBLISHED APRIL 6, 1920.

133,180. HEALING-OINTMENT FOR CERTAIN NAMED AILMENTS. SEMINOLE CHEMICAL CO., Binghamton, N. Y.
Filed March 5, 1919. Serial No. 116,309. PUBLISHED APRIL 13, 1920.

133,181. DOLLS. ELSIE SHAVER, New York, N. Y.
Filed December 2, 1919. Serial No. 125,516. PUBLISHED MARCH 9, 1920.

133,182. SAWS, MACHINE-KNIVES, TOBACCO-KNIVES, CANE-KNIVES, AND CORN-KNIVES. SHEFFIELD WORKS, INC., New York, N. Y., assignor to The Aero Works, Incorporated, New York, N. Y., a Corporation of New York.
Filed December 10, 1918. Serial No. 114,590. PUBLISHED APRIL 6, 1920.

133,183. HEMP CORDAGE. SOCIETÁ ANONIMA FILATURE E TESSITURE RIUNITE già Carugati Bazzano, (now, by change of name, Societa Anonima Manifatture Italiane Riunite del Line e della Canape,) Milan, Italy.
Filed October 5, 1918. Serial No. 113,599. PUBLISHED FEBRUARY 3, 1920.

133,184. CERTAIN NAMED CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. SOCIETÁ INDUSTRIE CHIMICHE ITTIOLO, Naples, Italy.
Filed February 6, 1919. Serial No. 115,666. PUBLISHED APRIL 6, 1920.

133,185. GOLF-CLUBS. A. G. SPALDING & BROS., New York, N. Y.
Filed December 13, 1919. Serial No. 125,979. PUBLISHED MARCH 2, 1920.

133,186. SPECIALLY-DESIGNED MACHINERY AND TOOLS, DIES, JIGS, AND PARTS THEREOF. THE SPECIAL TOOL ENGINEERING MANUFACTURING COMPANY, INC., Dayton, Ohio, assignor to The Stemco Engineering Company, Dayton, Ohio, a Corporation of Ohio.
Filed January 3, 1919. Serial No. 114,981. PUBLISHED APRIL 13, 1920.

133,187. CERTAIN NAMED OILS AND GREASES. SUN COMPANY, Philadelphia, Pa.
Filed July 9, 1915. Serial No. 87,859. PUBLISHED APRIL 13, 1920.

133,188. CERTAIN NAMED OILS AND GREASES. SUN COMPANY, Philadelphia, Pa.
Filed January 12, 1917. Serial No. 100,562. PUBLISHED APRIL 13, 1920.

133,189. CHEMICALS AND CHEMICAL OILS FOR USE IN THE MANUFACTURE OF FERTILIZER. EUGENE SUTRO & COMPANY, New York, N. Y.
Filed January 14, 1919. Serial No. 115,188. PUBLISHED APRIL 13, 1920.

133,190. CERTAIN NAMED FANCY GOODS, FURNISHINGS, AND NOTIONS. HERBERT TERRY & SONS LTD., Redditch, England.
Filed November 17, 1917. Serial No. 107,448. PUBLISHED MARCH 23, 1920.

133,191. CERTAIN NAMED CONDUITS, CONDUCTORS, AND ELECTRICAL MERCHANDISE. THE THOMAS & BETTS CO., New York, N. Y.
Filed December 13, 1917. Serial No. 107,952. PUBLISHED APRIL 13, 1920.

133,192. BABBITT METAL. UNITED AMERICAN METALS CORPORATION, New York and Brooklyn, N. Y.
Filed December 23, 1919. Serial No. 126,400. PUBLISHED APRIL 6, 1920.

133,193. UNITARY AIR-COMPRESSOR EQUIPMENTS AND PARTS THEREOF. THE UNITED STATES AIR COMPRESSOR COMPANY, Cleveland, Ohio.
Filed December 20, 1919. Serial No. 126,294. PUBLISHED APRIL 13, 1920.

133,194. CERTAIN NAMED MOTION-PICTURE APPARATUS AND ACCESSORIES. UNITED THEATRE EQUIPMENT CORPORATION, Wilmington, Del., and New York, N. Y.
Filed September 10, 1919. Serial No. 122,561. PUBLISHED APRIL 6, 1920.

133,195. CERTAIN NAMED HARDWARE, AND PLUMBING AND STEAM-FITTING SUPPLIES. WALWORTH MANUFACTURING COMPANY, Boston, Mass.
Filed November 20, 1919. Serial No. 125,140. PUBLISHED APRIL 13, 1920.

133,196. PIPE-WRENCHES. WALWORTH MANUFACTURING COMPANY, Boston, Mass.
Filed November 29, 1919. Serial No. 125,446. PUBLISHED APRIL 13, 1920.

133,197. CANDY-BARS. MORTIMER WILLIAMS, Petersburg, Va.
Filed February 28, 1919. Serial No. 116,226. PUBLISHED APRIL 6, 1920.

133,198. CERTAIN NAMED WOODWORKING MACHINES AND PARTS THEREOF. S. A. WOODS MACHINE CO., Boston, Mass.
Filed January 8, 1919. Serial No. 115,111. PUBLISHED APRIL 13, 1920.

133,199. ARTIFICIAL LIMBS. OSCAR E. WORMAN, Minneapolis, Minn.
Filed November 9, 1918. Serial No. 114,122. PUBLISHED MARCH 16, 1920.

133,200. CORN AND MALTOSE SYRUPS FOR USE AS A SUGAR SUBSTITUTE FOR FLAVORING FOODSTUFFS. YOUNG & WILE, LTD., New York, N. Y.
Filed November 14, 1919. Serial No. 124,924. PUBLISHED APRIL 6, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

MAREMONT *v.* OLSON.

Decided November 7, 1918.

PATENTS—PRIORITY—DELAY AFTER ALLEGED REDUCTION TO PRACTICE.

Delay to file an application or practice an invention for more than two years after a doubtful reduction to practice, while not a deliberate abandonment under *Mason v. Hepburn*, (1898, C. D., 10,) indicates such laches as to avoid any advantage flowing from an earlier conception.

[Affirmed by the Court of Appeals of the District of Columbia, 276 O. G., 406.]

APPEAL from Examiners-in-Chief.

MOTOR-VEHICLE.

Messrs. Brown & Phelps for Maremont.

Messrs. Barthel & Barthel for Olson.

CLAY, *Assistant Commissioner:*

The junior party, Maremont, appeals from the affirmance of an award of priority to Olson in an invention defined as follows:

1. A spring structure for attachment to a vehicle having axle flanges, comprising a spring supporting yoke having a face portion arranged for attachment to an axle flange, a spring parallel to the yoke face portion, and means securing the spring to the yoke.

2. A spring structure for attachment to a vehicle having axle flanges, comprising a spring supporting yoke having a face portion for attachment to an axle flange and an upstanding portion carrying an extension outstanding at right angles thereto, a spring parallel to the yoke face portion, and means securing the spring to the outstanding portion of the spring supporting yoke.

The Examiners-in-Chief have well and correctly discussed the proofs, and I find no error in any of their rulings.

I doubt whether Maremont fully conceived the invention in 1913; but, whether he did or no, I am satisfied that if he did he was not diligent thereafter before his rival Olson entered the field and proceeded diligently to give the public the benefit of his invention. Maremont could have known of Olson's activities in 1915, and ought to have known of them if he was interested. He presents no good excuse for omitting to at least file an application for patent sooner.

While, as Maremont's brief contends, this case is not exactly parallel to *Mason* v. *Hepburn* (1898, C. D., p. 10) in the matter of signs of deliberate abandonment, yet Maremont's two attempts at reduction to practice, one of which was a mere experiment and the other of which probably proved nothing, because there was no load used on Wolfson's car, were not pursued or followed by any practice for more than two years and indicate such laches as to avoid any advantage Maremont had, even if his was the earlier conception. He "waited for an opportune time to place it on the market" at his peril, and he lost.

The decision of the Examiners-in-Chief is affirmed.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

BROWN *v.* MCINTOSH.

Decided May 3, 1920.

PATENTS—PRIORITY OF INVENTION.

In an interference between Brown and McIntosh priority awarded to McIntosh as being the first to conceive and constructively reduce to practice.

Mr. E. N. Pagelsen for the appellant.

Mr. B. M. Kent, Mr. C. T. Milans, Mr. J. D. Milans, and *Mr. S. C. Barnes* for the appellee.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office tribunals in an interference proceeding in which priority was awarded the senior party McIntosh. The interference originally involved three parties, Brown, Kritz and McIntosh. Kritz, however, did not appeal from the decision of the Assistant Commissioner.

The invention is a lock-seam channel-tubing especially adaptable to the making of automobile-windshield frames. The second of the two claims of the issue is sufficiently illustrative:

2. A channel tubing comprising a fashioned sheet metal blank having an integral inner channel and uninterrupted outer surrounding portions, the opposite edge portions of said blank meeting in the bottom portion of the channel and being bent to form a lock seam with the thickness of the seam in the space between said channel portion and the outer surrounding portion, and the depth of said channel being materially less than the depth of the outer surrounding portion so as to form a comparatively rigid brace between the said walls thereof.

In the final paragraph of the Assistant Commissioner's decision, he says:

McIntosh was the first to conceive the invention and his application was filed before Brown reduced the invention to practice, either actually or constructively. Being, therefore, the first to conceive the invention and the first to reduce it to practice, he is, under a long line of decisions of this Office and of the Court of Appeals of the District of Columbia, entitled to the award of priority.

We agree with the Patent Office tribunals and therefore affirm the decision of the Assistant Commissioner.

Affirmed.

Court of Appeals of the District of Columbia.

MAREMONT *v.* OLSON.

Decided May 3, 1920.

MEMORANDUM OPINION.

PATENTS—PRIORITY.

Decision of the Assistant Commissioner of Patents awarding priority of invention to Olson affirmed.

Mr. F. M. Phelps for the appellant.

Mr. O. F. Bartel for the appellee.

This is an appeal from a decision of the Patent Office (276 O. G., 405) awarding priority in an interference to Nels L. Olson. The matter involved is an auxiliary spring attachable at the opposite ends of the axle-housing of a Ford automobile, for the purpose of converting a light car into a truck. The invention is set forth in two counts as follows:

1. A spring structure for attachment to a vehicle having axle flanges, comprising a spring supporting yoke having a face portion arranged for attachment to an axle flange, a spring parallel to the yoke face portion, and means securing the spring to the yoke.
2. A spring structure for attachment to a vehicle having axle flanges, comprising a spring supporting yoke having a face portion for attachment to an axle flange and an upstanding portion carrying an extension outstanding at right angles thereto, a spring parallel to the yoke face portion, and means securing the spring to the outstanding portion of the spring supporting yoke.

Maremont filed June 8, 1916; Holland and Wilson filed April 24, 1916, and Olson April 14, same year. Holland and Wilson having taken no testimony cannot prevail, since they filed after Olson. Maremont being junior to Olson, the burden is on him to establish his claim. The three tribunals of the Patent Office unite in holding against him and in awarding priority to Olson. Where this is so, we will not disturb their decision, unless it is clearly wrong, and we find no basis for saying that it is in this case. (*Kennicott* v. *Caps*, 262 Fed., 641; *Jobski* v. *Johnson*, 47 App. D. C., 230; *Bourn* v. *Hill*, 27 App. D. C., 291; *Flora* v. *Powrie*, 23 App. D. C., 195; *Gammeter* v. *Thropp*, 42 App. D. C., 564.) On the contrary, we believe that it is in harmony with right, and hence the decision of the Assistant Commissioner of Patents is affirmed.

Affirmed.

U. S. District Court—Northern District of Ohio, Eastern Division.

VAN KANNEL REVOLVING DOOR CO. *v.* WINTON HOTEL CO.

Decided March 8, 1920.

263 Fed. Rep., 988.

1. PATENTS—REVOLVING DOOR—ANTICIPATED BY EARLIER PATENT TO SAME INVENTOR.

Claims 1, 2, 3, 13, 22, 23, and 24 of the Van Kannel Reissue Patent No. 14,255, for an automatically-collapsible revolving door, *Held* invalid, as anticipated by Patent No. 656,062, issued to the same inventor and now expired.

2. SAME—PIONEER PATENTEE CANNOT PROLONG MONOPOLY BY PATENTING ONE FEATURE OF THE DEVICE.

Where an inventor of an automatically-collapsible revolving door was granted a pioneer patent and insisted upon and obtained a construction so broad that any form of double-acting hinge or of a releasing device was an infringement, he could not prolong his patent monopoly by subsequently obtaining a patent for some one form of double-acting hinge or self-releasing or collapsible device.

3. SAME—CONSTRUCTION INFRINGING PATENT MAY BE MADE AND SOLD AFTER EXPIRATION OF PATENT.

A construction which was anticipated by a patent and condemned as an infringement of it may be freely made and sold after such patent has expired.

4. JUDGMENT—PATENTS—PARTY CONDUCTING DEFENSE IS BOUND BY AND ENTITLED TO BENEFIT OF JUDGMENT, BUT NOT REQUIRED TO BECOME PARTY.

A corporation, employing counsel appearing for defendant in a patent infringement suit and conducting the defense at its own cost and expense is a privy to any judgment rendered and bound thereby, but was not required to become a party to the record.

IN EQUITY. Suit by the Van Kannel Revolving Door Company against the Winton Hotel Company. Bill dismissed.

Mr. Titian W. Johnson and *Messrs. Hull, Smith, Brock, & West* for the plaintiff.

Messrs. Trabue, Doolan, Helm & Helm and *Messrs. Christopher & Robblee* for the defendant.

WESTENHAVER, *Dist. J.*:

Plaintiff's bill is based upon Reissue Patent No. 14,255, reissued February 6, 1917, being a reissue of original United States Letters Patent No. 836,843, issued to T. Van Kannel November 27, 1906. The invention claimed therein relates to an automatically-collapsible revolving door, such as is commonly used at the street-entrance to public buildings. The defendant has purchased, installed, and is using a collapsible revolving door manufactured and sold by the Atchison Revolving Door Company, which has assumed and undertaken the burden and expense of defending this suit. The defenses are (*a*) that the claims in issue of this reissue patent are void for lack of novelty and lack of invention; (*b*) that it is void because no inadvertence, accident, or mistake is shown whereby the original patent is inoperative or invalid; and, even if so, the reissue was not applied for with due diligence; and (*c*) that, if valid at all, these claims must, in view of the prior art, as declared by numerous decisions, be so limited that defendant's door does not infringe.

(1) The claims in issue of this reissue patent are Nos. 1, 2, 3, 13, 22, 23, and 24. Of these the first four are rewritten and rephrased claims of the original patent, and the remaining three are new or added claims. Claims 1, 2, 3, and 22 cover in various forms, as the predominating element, a flexible tie connecting together and holding in position the radial wings of the door, automatically releasable, whereby, upon the release of any one, all the wings will fold or collapse. Claims 3 and 23 cover in various forms as a predominating element a hanger disk or plate, with grooves therein located in the spindle or center post, serving as hinges for the radial wings, whereby a series of wings may be collapsed to a folded position. Claim 24 embodies both elements of hanger-plates with grooves and flexible ties. Upon the issue of invalidity for lack of novelty and lack of invention defendant contends that all these claims are in substance and legal effect the same as claims 1, 2, 3, 13, and 14 of original Patent No. 836,843, all of which have, in one case or another, been held to be invalid. The differences, if any, between the reissue and the original

claims can be most conveniently stated after a brief review of this prior litigation and of the results reached therein.

The inventor, Van Kannel, was in 1888 granted a patent, being No. 387,571, for a revolving door, having a series of radiating wings, rotating in a casing. It did not have any automatic or collapsible features, although the desirability of providing for the egress of an excited or panic-stricken crowd was foreseen and disclosed therein. On August 14, 1900, he was granted Patent No. 656,062 for an automatically-collapsible revolving door, designed to provide for rapid exit by automatic collapse in the event of panic or other necessity therefor. Later, on November 27, 1906, he was granted an additional patent for an automatically-collapsible revolving door, being No. 836,843, of which the one now involved is a reissue. The 1900 and the 1906 patents have been extensively litigated, and defendant contends that all questions touching the validity of the claims now in dispute of the reissued patent have been fully considered and adjudged adversely to plaintiff's present contentions. These decisions are as follows: *Van Kannel* v. *Revolving Door & Fixture Co.*, (2 C. C. A., 219 Fed., 741; 135 C. C. A., 439;) *Louisville Trust Co.* v. *Van Kannel* (6 C. C. A., 231 Fed., 166; 145 C. C. A., 354;) *Van Kannel Revolving Door Co.* v. *Nathan Straus*, (2 C. C. A., 235 Fed., 135; 148 C. C. A., 629;) *Van Kannel Revolving Door Co.* v. *Lyon & Healy*, (7 C. C. A., 247 Fed., 329; 159 C. C. A., 423;) *Van Kannel Revolving Door Co.* v. *Uhrich*, (decision and opinion by Pollock, district judge, 247 Fed., 344.)

The nature and elements of plaintiff's invention and of the state of the art respecting revolving doors are so fully stated and described in these several decisions that it is unnecessary to go over the same ground. The conclusions reached in these cases are in accord; indeed, there is an unusual uniformity, not only in the result, but in the reasoning by which the results have been reached. Briefly, my understanding of these decisions is that the Van Kannel 1900 patent, No. 656,062, was held to be the pioneer patent for an automatically-collapsible or panic-proof revolving door, and that the inventor was entitled to a wide range of mechanical equivalents, and his patent claims to a reasonably broad construction. More specifically, as regards devices for hinging the radial wings to the spindle or center posts, and devices for connecting or tying the radial wings in an automatically-detachable manner, it was held that any device which would produce substantially the same result was an infringement. Accordingly the 1900 patent was in all these cases uniformly sustained, and its claims protected against infringement, as against any construction having any form of hinge or tying device which permitted these results to be realized. On the other hand, and in view of this broad construction, the more specific and detailed combinations embodied in the litigated claims of the 1906 patent, No. 836,843, were held to be invalid for lack of invention, as double patenting to the same inventor. Nor do I understand that this invalidity resulted from the particular phraseology used in the later patent in describing the connecting device.

Thus, in *Van Kannel Revolving Door Co.* v. *Revolving Door & Fixture Co.* (219 Fed., 741; 135 C. C. A., 439) Mayer, district judge, had sustained the validity of claims 1, 2, 3, and 8 of the earlier patent, and of claims 13 and 14 of the later patent, and had held that claims 1 and 2 of the later patent were invalid. This holding as to claims 1 and 2 of the later patent is based upon the disclosures of the earlier patent, but as to claims 13 and 14 he held that they stated a combination of elements from which—

> we have apparently, a new structure in commerce, a new result for operative panic-proof doors, and all described with words of limitation sufficiently definite and limited to save the combination from all the prior art.

The circuit court of appeals, second circuit, sustained this decision, except so far as it found claims 13 and 14 to be valid, and reversed as to these, holding that they also were anticipated by the disclosures of the earlier patent. Judge Mayer had stressed particularly this feature of the flexible tie, and the great merit thereof in permitting all the doors to collapse upon the release of any one fastening, and the easy restoration of all the wings to their normal position; but Circuit Judge Lacombe, who delivered the opinion, said as to these claims that they were merely an attempt to extend the monopoly of the earlier patent by changing the names of the various elements or the location of the folding device, or by merely combining old elements which would be evident to an ordinary mechanic. The construction held to infringe was not defendant's present construction, but the tying devices for holding together the wings, it was held, did not avoid infringement, even though they were made of such fragile construction as to be breakable rather than automatically releasable.

In *Louisville Trust Co.* v. *Van Kannel Revolving Door Co.* (231 Fed., 166; 145 C. C. A., 354) the decision of the lower court, which held claims 1, 2, and 13 of the 1906 patent valid and infringed, was reversed by the sixth circuit court of appeals. As to claim 13, this reversal was on the ground that the device for connecting the radial wings together was a bar, instead of a cord or strap or other flexible device, and it was not, therefore, the flexible tie which was supposed to give novelty and patentability to this claim. I do not understand Judge Knappen's opinion as expressing any dissent from the decision of the second circuit court of appeals, nor any intimation that the claim would be upheld, if it were so narrowed as to be limited to a flexible tying device, but merely that, inasmuch as infringement was not shown, no expression of opinion in that respect was called for. The reasoning of the opinion seems to me to lead to the conclusion that claim 13 was anticipated by the 1900 patent, as claims 1 and 2 were held to be anticipated.

In *Van Kannel Revolving Door Co.* v. *Straus* (235 Fed., 135; 148 C. C. A., 629) the claims of the 1906 patent were not put in issue, but only those of

the 1900 patent. These claims were not only sustained, but were given a construction so broad that the phrases "automatically unlocked" and "self-releasing locking devices," used therein, should cover any device which has been deliberately planned, whether by mechanical adjustment or by the proper proportioning of the parts, to effect the release of the wings at the proper moment without the interposition of any human agency, and that the phrases used therein of "a series of wings mounted so as to swing independently" and "swing forwardly to project side by side" should cover any mounting device which substantially accomplishes that purpose, even though all of the wings are not so mounted. It was accordingly held that a construction embodying a series of wings, three only of which were mounted to swing independently of their joint rotating movement, and in which the so-called "self-releasing locking device" consisted of chains constructed so weakly as to break under the normal pressure of a panic-stricken crowd, was an infringement.

However, in *Van Kannel Revolving Door Co.* v. *Lyon & Healy* (247 Fed., 329; 159 C. C. A., 423) and in *Van Kannel Revolving Door Co.* v. *Uhrich* (D. C., 247 Fed., 344) the construction held to infringe the 1900 patent was precisely the same as that involved in this case. It had the same form of hinge, called by defendant a "trammel hinge," and the same flexible automatically-releasing tie for holding the adjacent faces of the wings together. In the first case the district court had held claims 1, 2, and 8 of Patent 656,062 and claim 3 of Patent 836,843 invalid. The appeal as to claim 3 of the latter patent seems either to have been dismissed, or the assignment of error with respect thereto not insisted upon, so that no discussion of it is found in the opinion of the seventh circuit court of appeals, but claims 1, 2, and 8 of the earlier patent were sustained and given the same broad construction as had been previously given thereto by the earlier decisions already reviewed. Defendant's plate, called a "trammel hinge," was held to be a mechanical equivalent of the hinge or wings whereby in the 1900 patent the radial wings were folded together, and the tie or device for connecting the adjacent wings and permitting all to fold upon the release of any one was held to be a mechanical equivalent of the self-releasing locking device called for by the 1900 patent. Judge Pollock's holding in the other case is precisely the same as to the 1900 patent, and as to claim 3 his holding is that it also was invalid in view of the disclosures of the earlier patent.

Thus it appears that the earlier or 1900 patent has been uniformly upheld, and that no claim ever put in issue of the later or 1906 patent has been upheld, but, on the contrary, has been uniformly held to be invalid. The plaintiff has thus obtained from numerous courts a construction of the 1900 patent that is infringed by any form of double-acting hinges applied to all or any part of the wings, and by any form of self-releasing devices, wherever located and of whatever construction. In other words, the 1900 patent has been held to be a pioneer patent entitled to a broad construction, and to a wide range of mechanical equivalents, and is infringed by any form of automatically-collapsible panic-proof doors containing any form of double-acting hinge, or any form of device designed to release the wings automatically, whether by breaking or otherwise. The consequence of these holdings has been that the later or 1906 patent has been held to be invalid for the same reasons that other constructions have been held to be infringements. Certainly it is now too late for any district court to do more than accept fully and apply consistently these several decisions.

The claims now in issue of the reissue patent must be held invalid, unless there is a new patentable element embodied therein, not anticipated in the litigated claims of the 1900 or the 1906 patents. The differences between the claims of the reissue patent and of these earlier patents can be clearly shown only by examining them side by side. It would expand this opinion unduly to quote these claims in parallel columns and point out in detail the points of resemblances and differences. This, however, I have done with care, and as a result am convinced that the changes are in phraseology only, and not in substance. The claims have been merely rewritten and rephrased as respects claims 1, 2, 13, and 23 therein, with a more specific description of the connecting device, so as to limit it to a flexible tie, and to this extent only may these claims be said to be narrowed. As to claims 3, 23, and 24 a hanger plate is substituted for a hanger-disk of the earlier claims, and this defendant contends, not without reason, is broadening intentionally these claims, so as to cover its trammel-hinge, already held to be an infringement of the 1900 patent; but, as already said, an examination side by side forces the conclusion that these claims have been merely rewritten and rephrased, with the view and in the hope of escaping the adverse decisions of numerous Federal courts. No new or patentable combination is disclosed thereby, which would not be an infringement of the earlier or 1900 patent.

(2, 3) Certainly, under the construction already given the 1900 patent, a revolving door, constructed in accordance therewith, would be condemned as an infringement. An inventor who has been granted a pioneer patent, and who has insisted upon and obtained a construction therefor so broad that any form of double-acting hinge or of a releasing device is an infringement, can not prolong his patent monopoly by subsequently obtaining a patent for some one form of double-acting hinge or self-releasing or collapsible device. Plaintiff's contention merely comes to this: Defendant's present construction has been held to be an infringement of the 1900 patent, because its hinging and its releasing devices are equivalents of the hinging and releasing devices of that patent. It would be an absurd distortion of the patent law now to hold that a construction which was anticipated by a patent, and condemned

as an infringement of it, may not be freely made and sold after that patent had expired. This, it seems to me, is what plaintiff is seeking to accomplish.

This conclusion renders unnecessary an examination of the second defense relied on, namely, that no inadvertence, accident, or mistake is shown in the original patent as a basis for the reissue, and that, even if it were, due diligence was not exercised in applying for the reissue. The validity of the 1906 patent was at an issue many years before the reissue was applied for, it was held invalid by the second circuit court of appeals December 15, 1914, and its validity was insisted upon thereafter in this circuit, resulting in an adverse decision March 17, 1916. The application for a reissue, it is urged, was induced by these failures, and not as a result of any inadvertence, accident, or mistake. It would be difficult, it seems to me, either on the facts or in principle, to distinguish this case from *Milloy Electric Co.* v. *Thompson-Houston Electric Co.* (6 C. C. A., 148 Fed., 843; 78 C. C. A., 533;) but I deem it unnecessary to consider or express an opinion thereon. Likewise it becomes unnecessary to consider or express an opinion as to whether or not, even if any claims of the reissue patent should be held valid, they must be given a construction so narrow as not to include present form of hinging and releasing devices.

(4) Plaintiff, after this cause was heard and submitted for decision, filed a motion to make the Atchison Revolving Door Company a defendant. This motion is based upon admissions made at the hearing that this company had employed the counsel appearing for defendant, and was conducting the defense at its own cost and expense. Undoubtedly, upon these admissions, the Atchison Revolving Door Company is privy to any judgment as may be rendered herein, and is bound thereby. (See *Elliott Co.* v. *Roto Co.*, 2 C. C. A., 242 Fed., 941; 155 C. C. A., 529; *David Bradley Mfg. Co.* v. *Eagle Manufacturing Co.*, 7 C. C. A., 57 Fed., 980; 6 C. C. A., 661.) But I do not understand that one thus assuming the burden of a defense is required to become a party to the record, especially as, under the law, no such action is necessary to make the decree binding upon him.

This motion will be denied. Plaintiff's bill will be dismissed, at its costs.

ADJUDICATED PATENTS.

(U. S. C. C. A. Minn.) The Beckwith patent, No. 931,374, for improvements in base-burner heating-stoves, *Held* not to disclose invention and not infringed. *Estate of P. D. Beckwith, Inc.*, v. *Minnesota Stove Co.*, 264 Fed. Rep., 337.

(U. S. D. C. Ohio.) The Eccard and Smith patent, No. 1,117,944, claims 1, 2, and 11, for steering apparatus for truck-trailers, when limited to the particular construction shown, as they must be to avoid invalidity, *Held* not infringed. *Troy Wagon Works Co.* v. *Ohio Trailer Co.*, 264 Fed. Rep., 347.

Adverse Decisions in Interference.

PATENT No. 1,227,816.

On May 12, 1920, a decision was rendered that Frank S. Miller was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, and 6 of his Patent No. 1,227,816, subject "Air-lift-pump booster," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,296,497.

On June 11, 1920, a decision was rendered that Louis Ellman was not the first inventor of the subject-matter covered by claims 1, 2, and 3 of his Patent No. 1,296,497, subject "Conveying apparatus for disintegrated material," and no appeal having been taken within the time allowed such decision has become final.

Disclaimers.

1,275,468.—*Albert Pruessman*, East Orange, N. J. CONDENSER AND METHOD OF MAKING THE SAME. Patent dated August 13, 1918. Disclaimer filed June 15, 1920, by the patentee—the assignee, *Western Electric Company, Incorporated*, consenting.

Enters this disclaimer—

"To claims 1, 2, and 3 of said Letters Patent, which are in the following words, to wit:

"1. The method of treating a condenser comprising an impregnated unit, which consists in heating said impregnated unit to a temperature greater than the melting point of the impregnating compound, and maintaining the unit at such temperature for a period of time sufficient to allow the unit to assume its natural shape.

"2. The method of treating a condenser comprising a unit impregnated with a paraffin compound, which consists in heating the impregnated unit to a temperature of not less than 120° F., and maintaining said unit at this temperature for a period of not less than three hours.

"3. The method of treating a condenser comprising a unit impregnated with a paraffin compound, which consists in placing the impregnated unit in an upright position in an oven heated to a temperature of 140° F., and maintaining it at this temperature for a period of substantially four hours."

1,151,554. *Talbot G. Martin*, Chicago, Ill. NON-INTERFERING EXTENSION OR PARTY-LINE TELEPHONE SYSTEM. Patent dated August 24, 1915. Disclaimer filed June 28, 1920, by the patentee, the assignee, *Automatic Electric Company*, consenting.

Enters this disclaimer—

To claim 77 in said specification which is in the following words, to-wit:

"77. In a telephone system, a subscriber's line, a trunk line, means for extending a talking connection from said subscriber's line over said trunk line, a ground connection for preventing a connection being made with said subscriber's line, and a relay for controlling said ground connection."

14,665, (Reissue.) *Talbot G. Martin*, Chicago, Ill. AUTOMATIC TELEPHONE SWITCHING APPARATUS. Patent dated June 10, 1919. Disclaimer filed June 30, 1920, by the patentee, the assignee, *Automatic Electric Company*, consenting.

Enters this disclaimer—

To claims 38, 40, 45, 46, 47, 51, 52, 53, 64, 65, and 66, in said specification which are in the following words:

38. In a telephone system, a switch, means including a release magnet and a release magnet circuit for releasing the same, a slow-acting relay controlling the release magnet circuit during the operation of the switch, and a quick-acting relay controlling the release magnet circuit independently of said slow-acting relay after the switch has operated.

40. In a telephone system, a pair of lines, a pair of automatic progressively movable switches operable successively for trunking from one line to another for setting up a connection between said lines, release means for breaking the connection at each switch, quick relays and slow relays in the system for controlling said release means, and means controlled solely through the medium

of said quick-acting relays for operating said release means to break the connection.

45. In a telephone system, a switch, means for releasing the same including a relay slow to release controlling a release magnet during the operation of the switch, and a quick-acting relay controlling the release independently of said slow relay after the switch has operated, and means for controlling the two sides of a calling line in series to operate said switch.

46. In a telephone system, a trunk, a switch for extending connection thereto, releasing means for said switch including a slow-acting relay controlling the release before connection is extended to the trunk, and a quick acting relay controlled over the trunk for controlling the release after the switch has established the connection, and means for controlling the two sides of a calling line in series to operate said switch.

47. In a telephone system, a trunk, a switch for extending connection therefrom, releasing means for said switch including a release magnet and a relay slow to release its armature, said relay controlling the release magnet while the switch is operating, a quick-acting relay controlling the release magnet independently of said slow relay after connection has been established from the trunk, and means for controlling the two sides of a calling line in series to operate said switch.

51. In a telephone system, a switch, means for releasing the same including a release magnet and a relay slow to release its armature, said relay controlling the release magnet during the operation of the switch, a quick-acting relay controlling the release magnet after the switch has operated independently of said slow relay, and a central source of talking and operating current for said system.

52. In a telephone system, a trunk, a switch for extending connection thereto, releasing means for said switch including a relay slow to release its armature, said relay controlling the release before connection is extended to the trunk, a quick-acting relay controlled over said trunk for controlling the release after the switch has established the connection, and a central source of talking and operating current for said system.

53. In a telephone system, a trunk, a switch for extending connection therefrom, releasing means for said switch including a release magnet and a relay slow to release its armature, said relay controlling the release magnet while the switch is operating, a quick-acting relay controlling the release magnet after connection has been established from the trunk independently of said slow relay, and a central source of talking and operating current for said system.

64. In a telephone system, a trunk, a switch for extending connection thereto, releasing means for said switch including a relay slow to release its armature, said relay controlling the release while the switch is operating, and a quick acting relay controlled over said trunk for controlling the release of said switch after connection has been established with said trunk.

65. In a telephone system, means including switches having selecting motions in two intersecting planes for establishing a calling connection, means for releasing the connection including release magnets, circuits for energizing said magnets, slow acting relays controlling the release circuits during the establishment of the call, and quick acting relays for controlling the release circuits during conversation independently of said slow acting relays.

66. In a telephone system, means for establishing a call, means for releasing the call including a release magnet and relays slow to release their armatures, said relays controlling the release magnet during the establishment of the call, quick acting relays for controlling the release magnet during conversation independently of said slow acting relays, and a central source of talking and operating current for said system.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 25, 1920.

The Stampede Company, Limited, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eugene A. Tuchschmidt, of 113 and 115 Locust street, St. Louis, Mo., for registration of a trade-mark and trade-mark registered November 18, 1910, No. 127,689, to The Stampede Company, Limited, of St. Paul, Minn., and a notice of such declaration sent by registered mail to The Stampede Company, Limited, at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Stampede Company, Limited, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 25, 1920.

Louis Robinson, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Brownstein-Louis Company, of 716–722 South Los Angeles street, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered November 27, 1906, No. 57,799, to Louis Robinson, of New York, N. Y., and a notice of such declaration sent by registered mail to said Louis Robinson at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Louis Robinson, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1920.

Harris Wolf, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Wolfinger Knitting Mills, Walnut and Rose streets, Reading, Pa., for registration of a trade-mark and trade-mark registered March 10, 1891, No. 19,153, to Harris Wolf, Chicago, Ill., and a notice of such declaration sent by registered mail to said Harris Wolf at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Harris Wolf, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Patents Nos. 1,346,805 to 1,347,484.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 276—No. 3. TUESDAY, JULY 20, 1920. Price—$5 per year.

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Issue of July 20, 1920.

Patents	660—No.	1,346,805 to No.	1,347,484, inclusive.
Designs	89—No.	55,838 to No.	55,926, inclusive.
Trade-Marks	147—No.	133,201 to No.	133,347, inclusive.
Labels	2—No.	21,904 to No.	21,905, inclusive.
Prints	1—No.	5,266.	
Reissues	8—No.	14,917 to No.	14,924, inclusive.
Total	927		

Adverse Decisions in Interference.

PATENT No. 1,301,078.

On April 30, 1920, a decision was rendered that Franklin Rightmire was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, and 5 of his Patent No. 1,301,078, subject, "Traction attachment for vehicle driving-wheels," and no appeal having been taken within the time allowed such decision has become final.

Rule 72, as Amended April 17, 1919.

RULE 72. After the completion of the application the Office will not return the specification for any purpose whatever. If applicants have not preserved copies of the papers which they wish to amend, the Office will furnish them on the usual terms.

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Sketches filed to show proposed changes in construction must be in permanent ink. (See Rule 30.) Substitute drawings will not be admitted in any case unless required by the Office.

The Official Gazette.

THE OFFICIAL GAZETTE is published every Tuesday simultaneously with the weekly issue of patents. From January 1, 1872, (the commencement of its publication,) to June 30, 1883, it was published and bound in semi-annual volumes; from July 1, 1883, to December 31, 1902, in quarterly volumes; from January 1, 1903, to December 31, 1908, in bimonthly volumes; since January 1, 1909, in monthly volumes. Terms: Annual subscriptions, $5; monthly, 50 cents. For postage upon foreign subscriptions, except those from Canada and Mexico, $5 or more, as required. Moneys received from foreign subscribers in excess of the subscription price of $5 will be deposited to the credit of the subscriber and applied to postage upon the subscription as incurred. Single copies, 10 cents; if mailed to foreign countries, excepting Canada and Mexico, 10 cents additional for postage. *Payment in advance required. No club rates. No discount to newsdealers. No sample copies.* All subscriptions must commence with the beginning of a volume. None taken for less than an entire volume. All orders should be addressed to "The Superintendent of Documents, Government Printing Office, Washington, D. C."

NOTICE.

PAYMENT OF PATENT FEES—ACT OF MARCH 6, 1920.

Department of the Interior,
United States Patent Office,
Washington, D. C., June 25, 1920.

This Office has been advised by the Assistant Secretary of the Treasury that a circular letter is being forwarded to the Treasurer and Assistant Treasurers of the United States, Federal Reserve Banks, and National Bank depositaries calling attention to the act of Congress approved March 6, 1920, which requires that patent fees be paid directly to the Commissioner of Patents. (See 272 O. G., 379.)

J. T. NEWTON,
Commissioner.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business July 10, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Mar. 1	505
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Nov. 4	Feb. 11	978
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 24	Jan. 6	630
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Oct. 29	Apr. 26	1,895
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Mar. 31	Apr. 2	374
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 19	Jan. 26	543
312	7. Games and Toys; Optics; Photography; Velocipedes	Mar. 12	Apr. 20	873
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	May 3	June 5	366
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Jan. 27	Jan. 27	589
285	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Jan. 29	May 5	925
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Mar. 1	Mar. 24	786
222	12. Machine Elements	Nov. 10	Apr. 16	1,078
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 6	Apr. 29	1,201
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	Mar. 26	679
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 3	Apr. 1	1,142
111	16. Radiant Energy; Telegraphy; Telephony	Nov. 11	Dec. 11	868
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Apr. 16	May 8	208
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 15	Jan. 22	1,031
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Nov. 21	Jan. 24	588
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 2	Apr. 20	690
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 19	May 22	464
219	22. Aeronautics; Firearms; Ordnance	Apr. 7	May 21	285
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 30	Apr. 26	683
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 6	Apr. 23	635
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 24	June 1	227
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Nov. 5	Dec. 15	720
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Mar. 13	Apr. 5	634
238	28. Internal-Combustion Engines	Feb. 9	Apr. 15	626
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Dec. 1	May 14	694
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 10	June 1	1,142
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 5	Jan. 26	1,139
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Nov. 1	Apr. 5	1,234
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 1	Apr. 15	501
304	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	June 4	June 16	150
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	May 28	May 26	532
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Feb. 3	Apr. 1	1,132
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 2	Feb. 14	1,256
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Walls.	Feb. 11	Apr. 24	709
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 15	Nov. 14	1,000
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 29	Feb. 25	841
125	41. Resilient Tires and Wheels	Dec. 3	Apr. 14	829
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling	Jan. 14	Feb. 27	1,123
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Dec. 16	Mar. 10	892
263	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Mar. 1	Apr. 13	293
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Jan. 15	May 4	670
282	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Jan. 15	May 3	475
	47.	Nov. 10	Jan. 16	766
	Oldest new case, Oct. 27; oldest amended, Nov. 14. Total number of applications awaiting action			35,095
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Feb. 13	Apr. 2	2,402
	Designs	Feb. 24	Mar. 24	843
	Labels and Prints	Feb. 2	Feb. 2	1,168

PATENTS

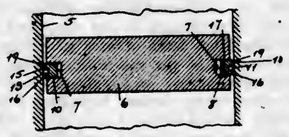
GRANTED JULY 20, 1920.

1,346,805. EXPLOSIVE-ENGINE. WILLIAM BARBER, New York, N. Y. Filed June 3, 1915, Serial No. 31,862. Renewed June 5, 1920. Serial No. 386,919. 10 Claims. (Cl. 123—18.)



1. An internal combustion engine comprising a cylinder, an oscillating piston operating in said cylinder about the center thereof, means associated with said cylinder and said piston to divide said cylinder into at least 4 compartments whereby each of said compartments becomes successively a suction, compression, explosion and expansion compartment and a single valve to admit fuel into all of said compartments when each compartment in turn becomes a suction compartment.

1,346,806. PISTON-PACKING. MILLARD P. BLOOM, Mount Washington, Md. Filed June 3, 1919. Serial No. 301,522. 1 Claim. (Cl. 74—109.)

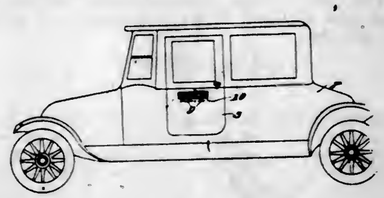


A packing-ring comprising a split spring ring having an upper portion of one diameter bounded by a downwardly and outwardly-sloping annular ledge wholly on the exterior of the ring and around the upper circumference thereof, and below said downwardly and outwardly-sloping ledge the said ring having a diameter greater than the diameter of said upper portion, said ring around said greater diameter being provided with an annular oil-trap groove which groove has a down-scraping edge at its upper side and between the down-scraping edge of the groove and the said outwardly-sloping exterior ledge above it said ring having a circumferential bearing face whereby the upper edge of said face at the base of the exterior ledge will form an oil-packing point on the compression stroke of the piston and the lower edge of said face at the upper side of the oil-trap groove will form a packing point on the suction stroke of the piston.

1,346,807. PROCESS OF MANUFACTURING REPRODUCTIONS OF PAINTINGS, MAPS, WALL-PAPERS WITH RELIEVO-PATTERNS AND THE LIKE. HUBERT BOGAERTS, Berlin-Halensee, Germany. Filed Jan. 24, 1917. Serial No. 144,190. 5 Claims. (Cl. 41—25.)

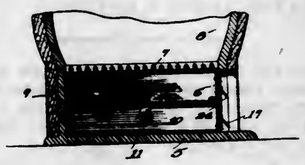
5. The process of making reproductions of paintings or other articles having uneven surfaces, which consists in making a patrix with a surface reproducing such uneven surface; then preparing a matrix by molding a suitable material against such surface of the patrix; applying to a suitable fabric a coat of kaolin (chalk), white gelatin, and glycerin, printing on said coat, and giving the resulting printed article the desired uneven surface by pressure in contact with said matrix.

1,346,808. SYSTEM FOR NUMBERING MOTOR-CARS. JASPER LUCIUS CATLETT, Vincennes, Ind. Filed July 22, 1919. Serial No. 312,507. 10 Claims. (Cl. 40—10.)



10. In combination with an article of manufacture, of identifying data permanently made a part of such article and plates carrying the same identifying data connected with the article in such manner that they may be easily and quickly removed therefrom or attached thereto to permit them to be carried in the pocket of the owner when the article is out of his immediate possession.

1,346,809. ASH RECEIVER AND SIFTER. PATRICK HENRY CHILDRESS, Waynesboro, Va., assignor of one-half to Thomas W. Quesenbery, Waynesboro, Va. Filed Feb. 21, 1920. Serial No. 360,274. 2 Claims. (Cl. 83—60.)



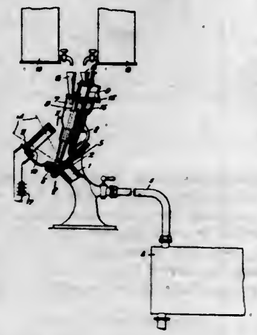
1. In a device of the character described, an ash pan having an imperforate bottom and imperforate side and end walls, adapted to be disposed in the ash pit of a furnace, a transverse bar extending entirely between the side walls of said ash pan intermediate the end walls thereof and having its upper surface disposed slightly above the top of the ash pan and a sifting pan comprising imperforate side and end walls and a reticulated bottom having its marginal edges secured to the sifting pan and superposed on said ash pan to partake of rocking motion about said transverse bar as a fulcrum, the intermediate unsupported portion of the reticulated bottom being arranged to rest upon the transverse bar which underlies and supports it throughout its entire width to thereby prevent sagging of said reticulated bottom, all as and for the purposes set forth.

1,346,810. NAME-PIECE FOR UMBRELLAS. WALTER W. DECKER, Minneapolis, Minn. Filed Sept. 19, 1919. Serial No. 324,939. 3 Claims. (Cl. 40—16.)



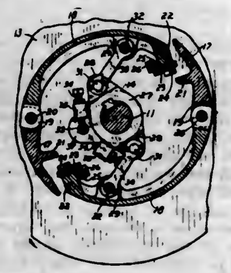
2. A name piece for umbrellas comprising a channel-shaped member having inturned flanges, and longitudinal grooves inward thereof, and a slide having reduced edge flanges slidable into the grooves of said channel-shaped member, and having a raised portion above its edge flanges, said internal flanges and the raised portion of said slide having interlocking lugs and notches.

1,346,811. PROCESS AND APPARATUS FOR ATOMIZING LIQUID SUBSTANCES INTO VERY SMALL PARTICLES. FRITZ DIEBOLD, Zürich, Switzerland. Filed June 8, 1918. Serial No. 238,836. 10 Claims. (Cl. 299—86.)



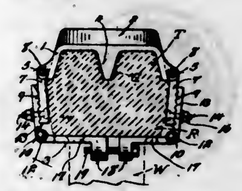
1. The method of atomizing liquid substances into very small particles, which comprises producing a spray having in a cross-sectional plane at right angles to its longitudinal axis the shape of an oblong and positively feeding the substances to be atomized from opposite sides to the two wider surfaces of the spray.

1,346,812. COLLAPSIBLE SPOOL. ERNEST W. DUSTON, Waterbury, Conn., assignor to The Blake & Johnson Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 30, 1920. Serial No. 355,137. 10 Claims. (Cl. 242—72.)



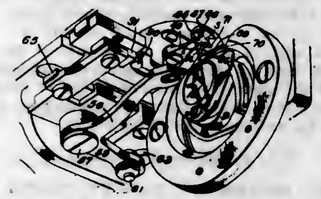
4. A spool of the character described comprising a flange and an end plate each having a hub, a shaft on which said hubs are loosely mounted, a hub adapted to be fixed to the shaft and having arms, carrying plates integral with the flange, other carrying plates hinged to said fixed plates, and links pivoted to the arms and to said hinged plates, said arms and links comprising toggles and the hinged carrying plates and the contiguous fixed carrying plates comprising gripping jaws, the toggles causing gripping action of the jaws when the hub is rotated and releasing action when the hub ceases to rotate.

1,346,813. TRACTION DEVICE FOR AUTOMOBILES AND THE LIKE. WALTER HENRY FRECH, Milwaukee, Wis. Filed Apr. 17, 1919. Serial No. 290,790. 1 Claim. (Cl. 152—2.)



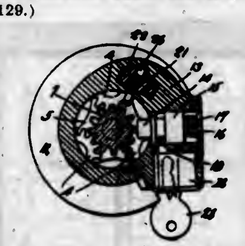
A detachable traction device for vehicle wheels comprising in combination, an extensible and retractile traction member adjustable for different widths of tires, a retaining element adjustable for various felly widths, and an extensible and retractile connecting element pivotally connected to each corresponding end of the traction member and retaining element, said traction member including a pair of tread plates movable upon each other transversely of the tire to position their outer ends beyond the planes of the sides of the latter, the contacting faces of said plates having coöperative alternate ridges and grooves, and a bolt for securing the tread plates in adjusted positions, each of said connecting elements including a pair of engaging links having coöperative alternate ridges and grooves on their engaging faces, the outer end of one link of one pair being pivoted to the outer end of one of said tread plates, the outer end of the corresponding link of the other pair being pivoted to the outer end of the other tread plate, the other links of each pair being pivoted to the respective ends of the retaining element, and a bolt for securing the links of each pair together in adjusted relation, the retaining element including a pair of felly plates movable toward each other to draw the connecting elements into engagement with the sides of a tire after the same have been adjusted for radial length and the traction member adjusted for transverse length, whereby to securely clamp the traction device on a vehicle wheel.

1,346,814. THREAD-SEVERING MECHANISM FOR SEWING-MACHINES. ALBERT F. FIFIELD, Newark, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 23, 1916. Serial No. 121,705. 24 Claims. (Cl. 112—252.)



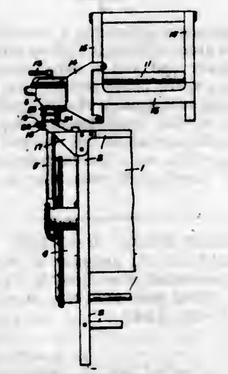
1. In a sewing machine, in combination, stitch-forming mechanism including a reciprocating needle a bobbin and a take-up, a needle-loop detaining implement, means whereby said implement is caused to pull thread from the bobbin, and means for severing the needle- and bobbin-threads.

1,346,815. LOCK. NORMAN P. FRASER, Detroit, Mich. Filed Feb. 20, 1919. Serial No. 278,157. 2 Claims. (Cl. 70—129.)



1. The combination with the steering head of an automobile provided with pinions for operating the steering mechanism, of a removable cap member adapted to be attached to said head, a shaft slidable within said member and carrying a pinion adapted to be slid into and out of engagement with said operating pinions, a collar carried by said shaft, a spring-actuated plunger within the cap member and adapted to be projected into the path of said collar for locking said shaft against sliding movement, a lug pivoted within the cap member and having a cam surface projecting into the path of said collar, and a spring pressed pin slidable within the cap member and adapted to be projected into the path of said operating pinions when said collar has passed out of engagement with the cam surface of said lug.

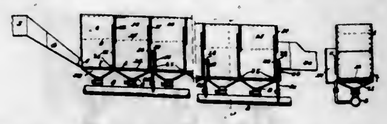
1,346,816. SAFETY-LOCK FOR SWING-WRINGERS. GEORGE F. FAEED, Ben Avon, and JOHN R. SPENCER, Pittsburgh, Pa., assignors to Pittsburgh Gage & Supply Company, Pittsburgh, Pa. Filed Apr. 12, 1919. Serial No. 289,621. 4 Claims. (Cl. 68—32.)



1. In combination with a frame, a vertical driven shaft mounted thereon, a wringer frame mounted on said vertical shaft to swing in a horizontal plane therearound, cooperating gears connecting the vertical shaft and wringer rolls, and locking means arranged to automatically lock the wringer frame to the main frame against swinging movement in the direction of the torque imparted to the wringer frame by the driving gear but allowing a swinging movement in the opposite direction.

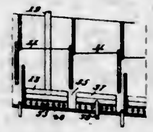
1,346,817. FLOTATION ORE-SEPARATOR AND PROCESS. RUDOLF GAHL, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y., a Corporation of Delaware. Filed June 26, 1915. Serial No. 36,480. 25 Claims. (Cl. 83—85.)

1. A flotation ore separator comprising a flotation tank divided into frothing compartments by partitions not reaching completely down to the bottom of the tank, a concentrates delivery, and a whole flow tailings discharge



extending upwardly from the bottom of the tank beyond a frothing compartment.

1,346,818. FLOTATION ORE-SEPARATOR. RUDOLF GAHL, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 31, 1916. Serial No. 75,343. 6 Claims. (Cl. 83—85.)

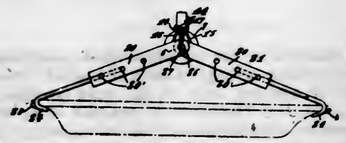


1. A flotation ore separator comprising a receptacle having an impervious bottom, means for supplying ore to be treated to said receptacle, and means for removing concentrates therefrom, said receptacle having located near the bottoms thereof a series of independently removable foraminous air chambers having longitudinally extending upper surfaces, said air chambers being arranged for travel of substantially the whole of the pulp over the series.

1,346,819. FLOTATION PROCESS. RUDOLF GAHL, Denver, Colo., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 10, 1918. Serial No. 266,024. 1 Claim. (Cl. 83—85.)

A process of concentrating ores by flotation which consists in introducing additional sand substantially free from slimes into the normal pulp and subjecting the mixture to froth flotation.

1,346,820. PAN-LIFTER. ROBERT JACKSON GARISON, Hastings, Okla. Filed Nov. 3, 1919. Serial No. 335,398. 5 Claims. (Cl. 294—30.)

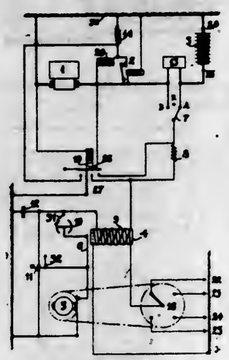


1. In a pan lifter, an elongated body portion, opposed clamping sections pivotally supported on the body, each of the clamping sections having a series of openings formed therein, plate engaging portions having their ends disposed in predetermined openings of the apertured members, and means for operating the clamping sections to cause the same to move toward and away from each other.

1,346,821. DYNAMO FOR LIGHTING AND MOTOR IGNITION. EMILE FERNAND GIRARDEAU, Paris, France. Filed Oct. 15, 1915. Serial No. 56,103. 1 Claim. Cl. 123—148.)

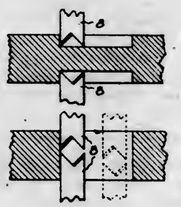
In ignition apparatus for explosion motors, the combination of an induction coil, means to supply said coil with

current when the motor is running and including an ohmic resistance arranged in series with the primary of said coil, to diminish the time constant of the coil, and



means to automatically short-circuit such ohmic resistance when the motor is stopped, to provide at the moment of starting, an increase of current in the coil.

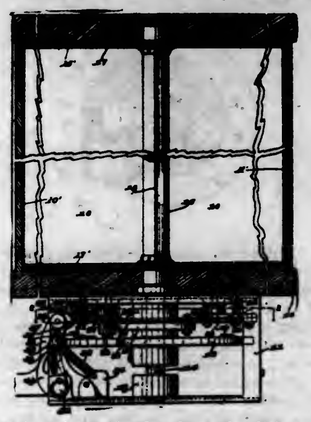
1,346,822. METAL-WORKING MACHINE. BENGT M. W. HANSON, Hartford, Conn. Filed Nov. 1, 1918. Serial No. 260,730. 33 Claims. (Cl. 90—14.)



1. A machine of the class described comprising a reciprocatory work-carriage, a pair of coaxial tool-carrying spindles at opposite sides of the work-carriage and rotative about axes transverse to the line of movement of the carriage, main slides carrying said spindles and movable transversely to said line of movement, and auxiliary slides to which the main slides are respectively connected for movement therewith, and means for adjusting the auxiliary slides transverse to said line of movement.

1,346,823. ROTATABLE WICKET. JOSEPH HECHT, Brooklyn, N. Y. Filed Sept. 11, 1915, Serial No. 50,181. Renewed May 31, 1919. Serial No. 301,123. 9 Claims. (Cl. 133—13.)

1. The combination with a window, of a rotatable wicket to close and transport articles through the window including a shaft to rotatably support said wicket; a disk fixed to the shaft; a pivoted dog to coöperate with a recess in the disk to lock the wicket against movement; an operating arm mounted loosely on the shaft provided with means for engaging said disk to impart rotation thereto when the arm is moved in one direction; and lever oper-



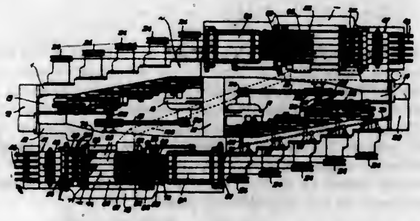
ated means to release the dog from the disk and actuate the disk rotating arm for the purpose specified.

1,346,824. ORE-SEPARATOR. JOHN HICKS, Calgary, Alberta, Canada. Filed May 29, 1918. Serial No. 237,300. 1 Claim. (Cl. 83—67.)



In an ore separating apparatus, a mercury cup adapted to receive sands from a conduit and having a detachable pocket at its lower end and a valve above said pocket and also having a flared upper portion, said upper portion including an outer wall doubled inwardly and downwardly and forming an annular expansion chamber in the uppermost and outermost portion of the cup and also including an apertured partition wall spaced from the outer wall and the inner downwardly-extending portion of said outer wall.

1,346,825. WIRE-TINNING MACHINE. WILLIAM F. HOSFORD, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1918. Serial No. 224,508. 9 Claims. (Cl. 91—12.6.)



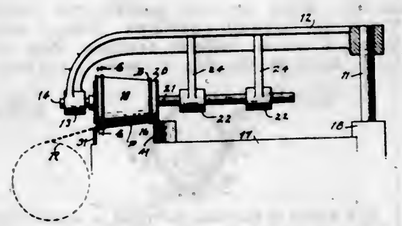
1. In a machine for tinning a plurality of separate wire strands simultaneously, a main supporting frame, a set of supply spools mounted on one side of said frame at one end thereof, a second set of supply spools mounted upon the opposite side and end of said frame from the first-mentioned supply spools, a set of take-up reels for each set of said supply spools mounted upon opposite sides of said frame, and a pair of tinning apparatuses mounted upon opposite sides of said frame.

1,346,826. GAME. ULYSSES S. HUGGINS, Chicago, Ill. Filed Nov. 14, 1919. Serial No. 338,092. 2 Claims. (Cl. 46—21.)



2. In a game, the combination of a map containing geographical indicia and also indicia representing stations for the supply of motor fluid, a plurality of representations of motor-driven vehicles, one for each player, and a plurality of direction cards adapted to be intermixed and drawn in sequence by chance by each player, and movement controlling directions on said cards, certain of said directions requiring mental effort and geographical knowledge, and others of said directions requiring travel to designated stations for the supply of motor fluid, substantially as described.

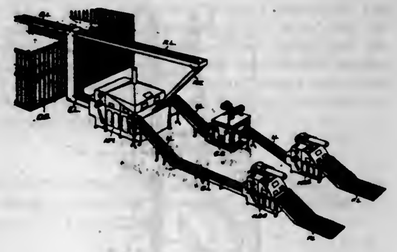
1,346,827. DEVICE FOR MAKING PAPER RECEPTACLES. DAVID J. JENNINGS, Cleveland, Ohio. Filed June 11, 1917. Serial No. 173,920. 8 Claims. (Cl. 93—39.)



1. In a device for forming paper receptacles, the combination of a conoidal mandrel adapted to revolve about a center and rotate on its own axis and having cutting instrumentalities, the shearing edges thereof facing away from the center of revolution of said mandrel, with arcuate cutting instrumentalities at each side of the path of travel of said mandrel, the shearing edges of which face the said center of revolution of said mandrel and coacting with the cutting instrumentalities on the mandrel.

1,346,828. APPARATUS FOR MIXING COTTON. SUEKICHI KIDO, Nishisuma, Hyogo-Ken, Japan, assignor to Kanegafuchi Boseki Kabuskiki Kwaisha, Minamikatsushika-Gun, Tokyo-Fu, Japan. Filed Aug. 2, 1918. Serial No. 247,971. 1 Claim. (Cl. 19—9.)

In an apparatus for mixing cotton, in combination, a relatively large hopper mixer, conveyers leading to and from the mixer, coacting elevating conveyers associated with the conveyer which leads from the mixer, a delivering conveyer leading from the elevating conveyers, a return conveyer associated with the elevating conveyers and extending over the mixer in a direction opposite to the direction assumed by the delivering conveyer, a return trough between the return conveyer and the inlet of the mixer, and a reversible roller above the upper ends of th



elevating conveyers for insuring of the passage of cotton on to the delivering conveyer or on to the return conveyer, substantially as described.

1,346,829. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Nov. 17, 1919. Serial No. 338,422. 3 Claims. (Cl. 21—69.)



3. In a sheet metal wheel, the combination with a rim, spokes and center all integral with one another and formed from a sheet metal blank, of an annular angle member at the rim underlying by one angle the outer edge of said rim and closing by its other angle a groove to complete the hollow rim and an annular hub member having two flanges at its opposite ends respectively against which the diverging ends of two sets of spokes cut from said blank respectively engage.

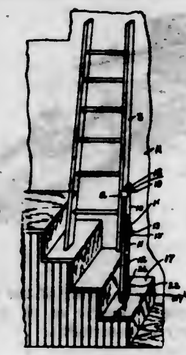
1,346,830. COMPOSITION FOR HARDENING AND PRESERVING IMPREGNABLE SOFT WOODS. ALPHONSE LAMBERT, Rome, Italy. Filed Jan. 4, 1919. Serial No. 269,672. 3 Claims. (Cl. 99—12.)

1. A composition for hardening impregnable soft woods for preserving, water-proofing and fire-proofing them and for preventing their destruction by the action of the termes or teredos, said compositions comprising an alkaline solution of copper and zinc salts, borax, and a soluble chromate in diluted ammonia water, said solution containing an insoluble cement in suspension.

1,346,831. LADDER ATTACHMENT. FERDINAND A. LEHMANN, Omaha, Nebr. Filed Nov. 16, 1918. Serial No. 262,900. 2 Claims. (Cl. 228—63.)

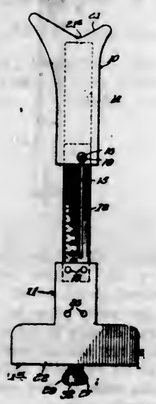
1. In combination with a ladder, an extensible ladder foot, means whereby said foot may be adjusted longitudinally on said ladder, a bracket carried by the upper end of said foot and having a right angularly bent wing

adapted to engage the ladder to prevent the rotation of the foot thereabout, said bracket being rotatable through



180 degrees to permit the wing to engage the opposite edge of the ladder, and means to hold the bracket in either position of adjustment.

1,346,832. TAILOR'S IMPLEMENT. ABE LIPNER, Indiana Harbor, Ind. Filed Feb. 17, 1919. Serial No. 277,557. 6 Claims. (Cl. 33—2.)



1. A device of the character described, comprising two end members, an intermediate member in the form of a rule connected at one end with one of said end members and having endwise sliding engagement with the other of said end members, means for clamping said rule to said last named end member, and a second rule adjustably connected with the first mentioned end member and adapted to be extended endwise beyond that end thereof opposite to the end to which said intermediate rule is connected.

1,346,833. MACHINE FOR TREATING YARN IN HANK FORM. JOSEPH SPENCER LOAD and SAM SPENCER LORD, Manchester, England. Original application filed Apr. 11, 1919, Serial No. 289,459. Divided and this application filed Dec. 15, 1919. Serial No. 345,000. 4 Claims. (Cl. 8—19.)

1. A machine for dyeing, washing, scouring, sizing, bleaching and mercerizing yarn in hank form, comprising a driving shaft, a set of radial arms intermittently rotatable on said shaft, a pair of horizontally projecting rotary yarn carrying members on each of said arms, a trough secured to each of said radial arms and an auxiliary roller mounted therein running in frictional con-



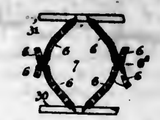
tact with said inner rotating member, for the purpose specified.

1,346,834. RESILIENT ROD. CHARLES E. MCMANUS, New York, N. Y. Filed Aug. 17, 1918. Serial No. 250,305. 6 Claims. (Cl. 154—43.)



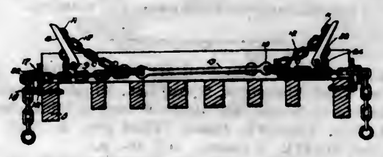
5. A resilient rod embodying therein a core formed of cork granules, suitably bonded together, and an envelop therefor composed of soft, vulcanized rubber, said rubber being normally under stretch, whereby it will exert compression stresses upon said core and will conform to any irrgularities in the surface thereof.

1,346,835. MODE OF AND MEANS FOR GRADING FRUIT AND OTHER ARTICLES. NORMAN SINCLAIR MCNAB, Melbourne, Victoria, Australia. Filed Oct. 7, 1919. Serial No. 329,053. 7 Claims. (Cl. 130—82.)



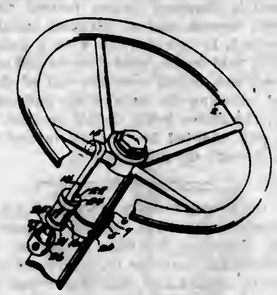
1. In a device of the class described, a carrier comprising a pair of lengthwise extending flexible members, and a plurality of seat-forming elements carried by each of said members, the elements carried by one of the flexible members being connected to those of the other flexible member along the longitudinal center line of the carrier.

1,346,836. STAKE FOR CARS. MATT MARKKULA, Fort Bragg, Calif. Filed Apr. 7, 1920. Serial No. 371,967. 5 Claims. (Cl. 105—388.)



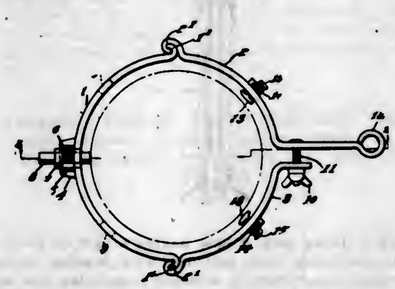
1. In apparatus of the type described, a pair of vertically swinging stakes arranged upon opposite sides of the car and pivotally connected thereto, a pair of oppositely extending connecting elements, flexible members connecting the inner and outer sides of each of said swinging stakes with the adjacent end of the corresponding connecting element, and means for adjustably positioning said connecting elements.

1,346,837. LOCKING DEVICE FOR STEERING-WHEELS. HIRAM C. MILLER, Parkesburg, Pa. Filed Jan. 31, 1920. Serial No. 355,483. 5 Claims. (Cl. 70—129.)



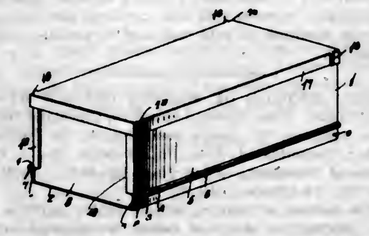
1. The combination with a steering column having a steering wheel on its upper end, of opposed clamps engaging the steering column and having certain of their ends bolted together, one of the bolted ends having an eye, a locking element having a hook at its upper end engaging one of the spokes of the steering wheel and passing downwardly through the eye, a housing inclosing the eye and the bolted ends of the clamps, and through which the locking element passes, and a padlock carried by the lower end of the locking element, thereby preventing upward movement of the locking element.

1,346,838. PISTON-GROOVING TOOL. CHRISTIAN MULLER, Fall River, Mass. Filed Apr. 9, 1919. Serial No. 288,764. 1 Claim. (Cl. 82—4.)



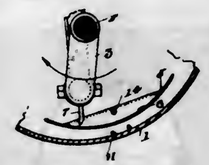
A regrooving tool for pistons, comprising a piston encircling guide member, a tool radially and rotatably adjustable therein and opposed groove engaging guide members also rotatably adjustable therein.

1,346,839. FOLDING BOX. WILLIAM NESS, Carryville, Wis. Filed Aug. 9, 1918. Serial No. 249,069. 1 Claim. (Cl. 220—7.)



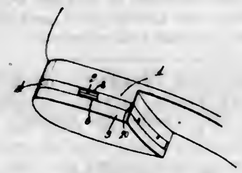
A folding box comprising a bottom wall, side and end walls hinged to the bottom wall, flanges on the ends of the side walls and overlying portions of the outer faces of the end walls, apertured lugs formed on the end walls adjacent their upper edges, rods extending through the lugs and having their ends bent to form hooks to engage the upper edges of the side walls, a cover resting on the side and end walls, flanges formed on the cover and engaging the outer faces of the side and end walls, and offset portions formed on some of said last named flanges and receiving the hooks for preventing lateral movement of the rods and adapted to aid in holding the cover on the side and end walls.

1,346,840. OIL-FEEDER. ALBERT E. NICHOLLS, Wilson Creek, Wash. Filed June 26, 1919. Serial No. 306,972. 1 Claim. (Cl. 184—13.)



In a motor vehicle, the combination with the crank case, the crank shaft having cranks; of an oil pan located within the crank case and spaced above the bottom thereof, said pan being formed at intervals with depressed portions extending transversely thereof beneath said cranks, the bottoms of said depressed portions being arcuate and concentric with the crank shaft, oil feed pipes having their discharge ends extending over the end portions of the pan and discharging into the endmost channels, the adjacent walls of the successive channels being provided with holes, and tubes extending through said holes and establishing communication between the successive channels, the channels permitting the passage of the oil supply tubes of the crank bearings.

1,346,841. SHOE-HEEL. ROBERT W. PADDEN, Kansas City, Mo. Filed May 7, 1919. Serial No. 295,258. 4 Claims. (Cl. 36—42.)



1. A shoe heel comprising independent heel portions having their corresponding faces in contact, each of the said portions being provided with a groove, the said grooves forming a recess extending around the heel at the adjacent edges of the said heel portions, a retaining band lodged in the said depression and provided with flanges embedded in the heel portions, and locking means to maintain the ends of said band in operative position on the said heel portions.

1,346,842. [WITHDRAWN.]

1,346,843. MOVABLE IRRIGATING APPARATUS. ARTHUR RAMÉN, Helsingborg, Sweden. Filed Dec. 22, 1919. Serial No. 346,676. 2 Claims. (Cl. 299—47.)

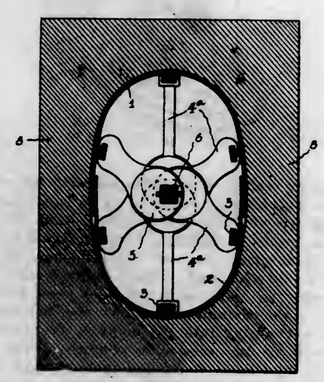
1. An irrigating apparatus, comprising a distributing pipe formed of a plurality of rigid sections, a truck between each pair of sections supporting the adjacent ends

of said sections, and flexible means carried by the trucks for connecting the ends of adjacent sections to each other and to the trucks so that each of said sections is movable



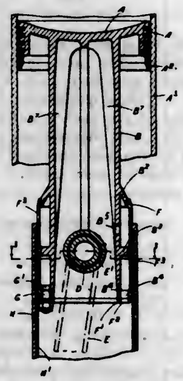
in the direction of its length transversely of the trucks and also in a circumferential direction with relation to the trucks.

1,346,844. CORE FOR MOLDING HOLLOW CONCRETE COLUMNS. HARVEY W. REMINGTON, New York, N. Y. Filed Feb. 17, 1919. Serial No. 277,516. 1 Claim. (Cl. 25—128.)



A core for molding hollow, concrete columns, comprising longitudinal, curved segments of sheet material arranged in interfitting slidable relation, longitudinal rails extending inwardly from said segments, a central shaft, rigid internal members slidably engaging said rails respectively at their outer ends, and revoluble hubs for the inner ends of said members, said hubs respectively having eccentric engagement with said shaft, whereby movement of said shaft in one direction of rotation will draw said segments inwardly, and movement of said shaft in the other direction will expand said segments.

1,346,845. PISTON FOR INTERNAL-COMBUSTION ENGINES. HARRY RALPH RICARDO, London, England. Filed Oct. 16, 1917. Serial No. 196,902. 12 Claims. (Cl. 74—108.)



1. A piston for internal combustion engines comprising a flanged disk with a solid face constituting a piston head constructed and designed to perform its piston functions without thrust on the wall of the cylinder in which it reciprocates, said head having an integral, hollow, open ended projection of less diameter than the piston head with oppositely disposed bosses formed therein toward the open end thereof, and an external annular thickening at its open end, in combination with a gudgeon pin carried freely in said bosses, and a sleeve having an internal flange at one end, fitting over the end of the hollow projection and inclosing the ends of the gudgeon pin to keep it in place, the sleeve being rigidly secured to the hollow projection and adapted to take all lateral stresses communicated through the gudgeon pin.

1,346,846. COMPOSITION PAINT FOR LEATHER. JOSEPH RICHARD, Montreal, Quebec, Canada. Filed Aug. 30, 1919. Serial No. 320,934. 2 Claims. (Cl. 134—7.)

2. A composition paint of the character described comprising, crude linseed oil, raw umber and dry sugar of lead mixed with benzin and prepared paint substantially as described.

1,346,847. FLEXIBLE-BASE JACK. CHARLES W. RIPSCH and JAMES C. DAWLEY, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed June 9, 1919. Serial No. 302,860. 3 Claims. (Cl. 254—115.)



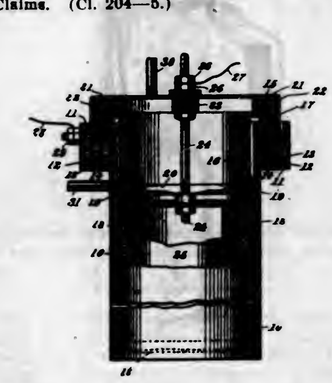
1. In a lifting jack, a base having a pair of short upwardly extending lugs provided with bearing surfaces along their upper edges, a standard comprising side members having a guideway between them, each of said side members terminating at its lower end in a lug, the lugs of said standard being arranged between the lugs of said base, pivot pins to connect the lugs of said standard to the lugs of said base, each of said side members having on its outer side a shoulder forming a bearing surface to coöperate with the bearing surface of the corresponding lug on said base to support the load on said standard, said bearing surfaces being curved about the axis of said pivot pins to permit said standard to have pivotal movement relatively to said base, a lifting member mounted in said guideway between said side members and an operating device mounted on said standard to actuate said lifting member.

1,346,848. METHOD OF MAKING HOLLOW RUBBER ARTICLES. FRED THOMAS ROBERTS, Cleveland Heights, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Mar. 12, 1917. Serial No. 154,072. 24 Claims. (Cl. 18—56.)

1. The method of making hollow rubber articles, comprising placing two sheets of rubber across mold cavities, drawing the sheets into the cavities by vacuum, bringing the mold members together and trimming off the sheets at the edges of the mold cavities, then removing the article

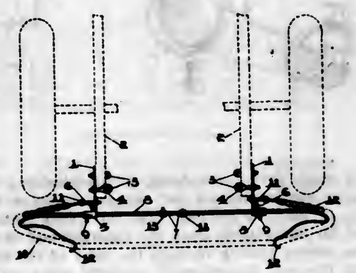
formed by such cavities, placing the same in a vulcanizing mold complementary to its exterior, introducing pressure fluid within the article while in such mold, and subjecting the same in this condition to a vulcanizing heat.

1,346,849. ELECTROLYTIC CELL. ROBERT M. SHAW, St. Louis, Mo. Filed July 29, 1918. Serial No. 247,096. 9 Claims. (Cl. 204—5.)



2. An apparatus of the character described comprising a receptacle constituting an electrode, a member removably supported upon said receptacle, a diaphragm carried by said member, a second member removably supported upon said receptacle, an electrode carried by said second member and insulated from said receptacle and extending within said diaphragm, and means for separately conducting the gases from said receptacle, substantially as specified.

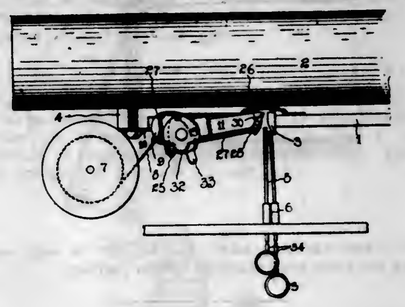
1,346,850. FENDER FOR MOTOR-CARS. BERTON H. SILLS, Toronto, Ontario, Canada. Filed Mar. 4, 1920. Serial No. 363,231. 10 Claims. (Cl. 293—55.)



4. A vehicle fender comprising a pair of attaching arms; an impact receiving portion; and hinge connections between the forward ends of the arms and the impact receiving portions, the pivots of said hinges being substantially vertical.

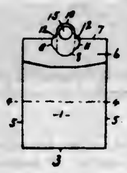
1,346,851. TYPEWRITING-MACHINE. JAMES E. SIMPSON, Brooklyn, N. Y., assignor to Typewriter Accessories Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 7, 1919. Serial No. 315,895. 7 Claims. (Cl. 197—171.)

1. In a typewriting machine having a ribbon movable across the printing point and a guide for the types, the combination of a revoluble inking pad, means for supporting said pad in proximity to said ribbon, and means pivoted



near said guide, to be actuated by the type bars in moving the types to the printing point, to intermittently move said ribbon into contact with said pad.

1,346,852. PAPER BAG. FRED R. SKINNER, Syracuse, N. Y., assignor of one-half to Ernest Ripley, Los Angeles, Calif. Filed Aug. 2, 1919. Serial No. 314,863. 1 Claim. (Cl. 229—62.)

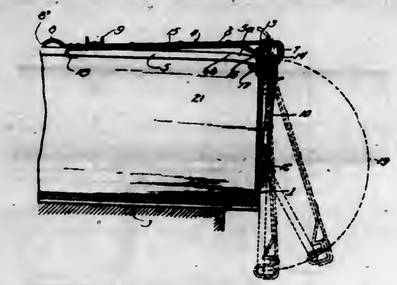


A paper bag of the character described comprising a back portion and a front portion united along one end and also along their opposite longitudinal edges, the upper end of the front portion being provided with a finger loop having laterally projecting wings on opposite edges thereof, the back portion being provided with a flap foldable over and upon the front face of the front portion, said flap having an opening for permitting the finger loop to pass therethrough when the flap is folded, said opening being of less width than the transverse width of the finger loop across the wings thereof to permit the latter to interlock with the front face of the flap at opposite sides of the opening when the flap is folded, portions of the wings being formed from portions of the front of the bag below the upper edge of said front and other portions extended above the upper edge of the front and also above the lower edge of the opening in the flap when the latter is unfolded.

1,346,853. RECEPTACLE-CLOSURE. WILLIAM W. SLOANE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 4, 1919. Serial No. 342,389. 24 Claims. (Cl. 105—51.)

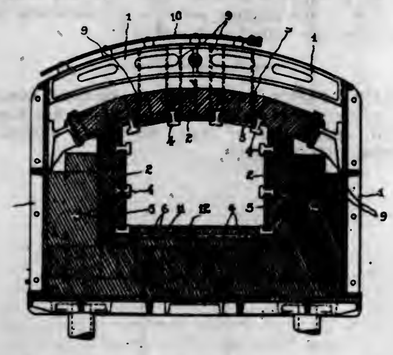
24. In combination with a receptacle, a cover therefor, and means connecting said cover to said receptacle, said means permitting continuous sliding and supporting en-

gagement between said cover and an upper edge of said receptacle during the removal and replacement of the



cover, and affording additional support to said cover, when the cover is in partially opened position.

1,346,854. ELECTRIC FURNACE. EDWIN LEONARD SMALLEY, East Orange, N. J. Filed Oct. 21, 1919. Serial No. 332,261. 6 Claims. (Cl. 204—64.)



1. The combination, with an electrical furnace having a series of heating units, of horizontally shiftable supporting elements within said furnace for said heating units whereby the latter are rendered both adjustable and renewable.

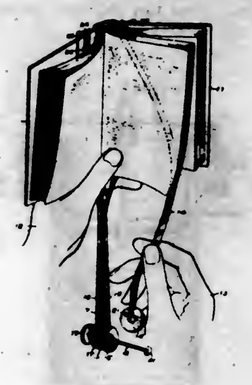
1,346,855. RAZOR-GUARD. WILLIAM A. SNYDER, Masonanie, Wis. Filed Oct. 31, 1919. Serial No. 334,811. 6 Claims. (Cl. 30—12.)



2. A razor blade guard comprising a plate, the lower edge of which is offset, depending tongues formed on the offset portion, a U-shaped spring having one arm secured to the plate and the other arm adapted to engage the blade, and guard means attached to said plate.

1,346,856. BOOKMARKER. ABBIE C. SPRAGUE, Boston, Mass. Filed Feb. 14, 1920. Serial No. 358,588. 8 Claims. (Cl. 116—119.)

1. A book marker comprising a plurality of ribbons adapted to be inserted between the pages of a book, said ribbons provided with means secured thereto, and a pin constructed to have said means removably arranged thereon in such a manner that they may be disengaged from said pin in the order in which the pages marked by said



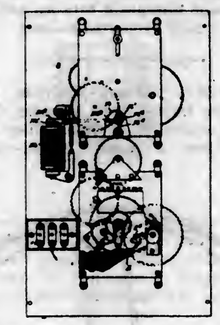
ribbons are to be referred to, said means upon the ribbons arranged to permit a portion of one ribbon between the same and the book to be crossed over another ribbon in arranging the means in the desired order upon said pin.

1,346,857. REPAIR-HUB AND WHEEL-PULLER. CHARLES NOAH SRADER, Canton, Okla. Filed Sept. 16, 1919. Serial No. 324,074. 1 Claim. (Cl. 301—111.)

A hub repair device comprising a cylindrical cap having an angular portion formed for engagement by a wrench whereby it may be turned, the cap being internally threaded for engagement upon the threaded end of a hub, clamping screws passing through the sides of the cap and engaging the hub, diametrically opposite arms extending from said cap and terminating in laterally offset portions, and detachable clips carried by said offset portions and engageable about spokes of a wheel.

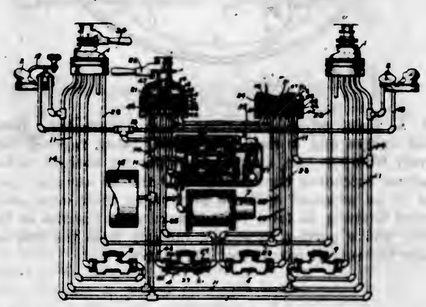
1,346,858. TIME-CONTROLLED MECHANISM. NATHAN H. SUREN, Needham, Mass., assignor to The Gamewell Fire-Alarm Telegraph Company, New York, N. Y., a Corporation of New York. Original application filed July 22, 1910. Serial No. 573,291. Divided and this application filed May 8, 1916. Serial No. 96,003. 1 Claim. (Cl. 200—40.)

In a time-controlled mechanism, an element adapted to be controlled, an actuator for controlling said element adapted to be set in different positions by hand away from a normal controlling position, spring-actuated means to return said actuator to its controlling position, and



time-controlled releasing-means for said spring-actuated means and independent of but associated with actuated means.

1,346,859. CAR-DOOR AND BRAKE CONTROL DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 4, 1919. Serial No. 301,778. 12 Claims. (Cl. 303—51.)



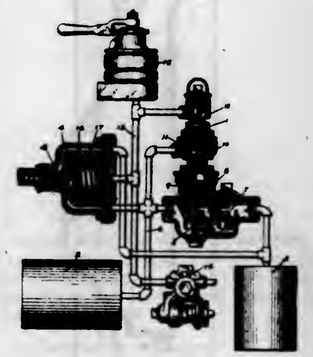
2. In a car door and brake controlling apparatus, the combination with a brake valve operated by the motorman for controlling the end car doors and the brakes, of an additional brake valve operated by the conductor for controlling the center car doors and the brakes.

1,346,860. ELECTRICAL PLUG-CONNECTOR. WILLIAM C. TREGONING, Cleveland, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 24, 1917. Serial No. 157,218. 14 Claims. (Cl. 173—359.)



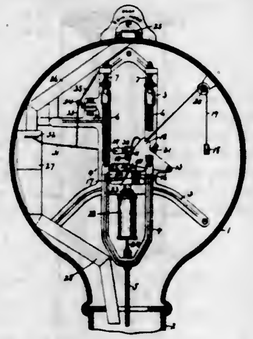
1. An electrical plug connector comprising a metal screw shell having at one end a finger grip through which circuit wires may be passed into said shell and having at its opposite end a centrally perforated conducting cap provided with an opening through which one of the circuit wires may be passed for connection to said cap externally of said shell, an insulating member carried by said cap centrally thereof, said member projecting from said cap into said shell and having a passage through which another of the circuit wires may be passed to the exterior of said shell and a contact carried by said insulating member to which the latter circuit wire may be connected externally of said shell.

1,346,861. FLUID-PRESSURE GOVERNOR. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Dec. 18, 1918. Serial No. 267,263. 7 Claims. (Cl. 303—85.)



1. The combination with a main reservoir of a fluid pressure brake system, of an additional reservoir and a governor device operated according to the opposing pressures of the main reservoir and a conduit having a fluid pressure a predetermined degree less than full main reservoir pressure and operating when the main reservoir pressure slightly exceeds the opposing pressure to supply fluid from the main reservoir to the additional reservoir.

1,346,862. WEIGHING-SCALE. AARON VANDECAR, Syracuse, N. Y., assignor to Colonial Machine Company, Inc., Syracuse, N. Y., a Corporation of Delaware. Filed Aug. 2, 1919. Serial No. 314,899. 2 Claims. (Cl. 265—68.)



1. In a weighing scale of the character described the combination with a frame, a weight operated plunger and retracting means therefor, of an abutment on the plunger, a rotary spindle for receiving and supporting an index finger, a pinion on the spindle, a segmental rack pivoted

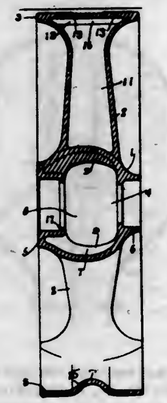
to the frame and engaging the pinion and a spring for holding the rack against said abutment independently of the plunger to cause said rack to follow the plunger in its movement against the action of the retracting means and a counter weight acting upon the segment against the action of but with less force than that of the spring.

1,346,863. WHEEL. GEORGE WALTHER, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed May 19, 1919. Serial No. 297,994. 14 Claims. (Cl. 21—69.)



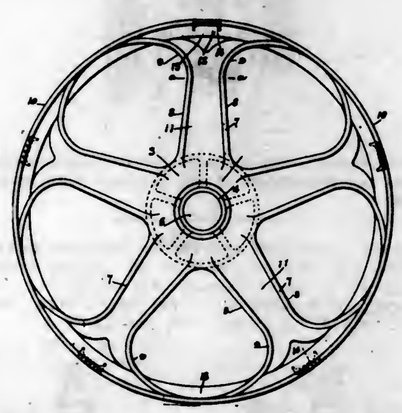
1. A metal wheel consisting of a felly, spokes and a concave-convex hub having an inwardly projecting flange forming an axle bearing, a self-cleaning bearing entrance outwardly adjacent said bearing, an annular flange within the concavity of the hub forming a bearing support, and an annular flange concentric with the axle bearing extending inwardly adjacent the concavity of said hub and forming one element of the brake mechanism of said wheel.

1,346,864. WHEEL. GEORGE WALTHER, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed May 19, 1919. Serial No. 297,995. 11 Claims. (Cl. 21—69.)



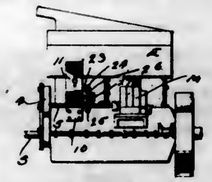
1. In a metal wheel, a hub having inner and outer portions and an enlarged intermediate portion, a longitudinal aperture extending through the hub and an annular aperture extending outwardly therefrom into said enlarged portion and laterally into the inner portion of the hub, strengthening walls interposed between said hub portions, and spokes and a felly supported thereon.

1,346,865. WHEEL. GEORGE WALTHER, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed May 19, 1919. Serial No. 297,996. 9 Claims. (Cl. 21—69.)



1. A metal wheel consisting of a hollow hub, channeled spokes and a rim, said spokes being tapered outwardly from the hub, and having a portion thereof curved aperture extending through the hub and an annular apertion of an adjacent spoke, a portion at their outer ends curved laterally to form the juncture with the rim of the wheel, and a portion extending radially from the hub between the curved portions of the spokes.

1,346,866. AUTOMOBILE-PUMP. WILLIAM F. WARREN, Shelburn, Ind. Filed Jan. 28, 1919. Serial No. 273,557. 2 Claims. (Cl. 103—61.)



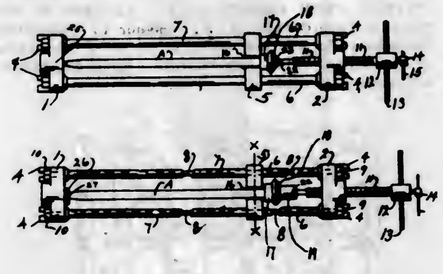
1. In a motor, the combination with the crank case and the crank shaft, of a magneto bracket secured to said crank case and situated adjacent one end thereof, a magneto mounted on said bracket, a magneto shaft extending from said magneto toward the other end of the motor, means for connecting said magneto shaft to said crank shaft, a gear wheel keyed to the magneto shaft intermediate its ends, an inverted L-shaped bracket carried by the crank case so as to overhang the magneto shaft adjacent said gear wheel, a pump situated on the inverted L-shaped bracket, and means for operating said pump through said gear wheel.

1,346,867. STOP OR SET SCREW. NILS RUDOLF MARTIN WEIBULL, Bofors, Sweden. Filed Oct. 16, 1919. Serial No. 331,252. 7 Claims. (Cl. 85—1.)



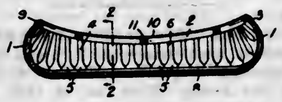
4. Stop- or set-screw consisting of a screw and a loose point coöperating with it, the said point having a spherical upper surface, placed against the lower end of the screw, while the lower part of the point is provided with an edge, the said point being connected to the screw by means of a bent wire.

1,346,868. ARBOR-PRESS. KIRKE R. WILSON, Buffalo, N. Y. Filed Jan. 9, 1920. Serial No. 350,425. 3 Claims. (Cl. 29—85.)



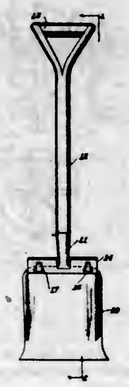
1. An arbor press adapted to assemble and disassemble a gear with a shaft, comprising a frame, including terminal members and spacing members, each of said terminal members having a central core and holes near the outer ends of said terminal members, a clamping screw in threaded engagement with one of said bores, parallel members holding said terminals in fixed spaced relation, a yoke crossing said parallel members and fixed in position with relation to said terminal members, said screw having a ball bearing end for frictionless contact with said shaft when removing the same from said gear.

1,346,869. CANOE. ADOLPHE YELLE, Cheneville, Quebec, Canada. Filed Jan. 15, 1920. Serial No. 351,633. 3 Claims. (Cl. 9—6.)



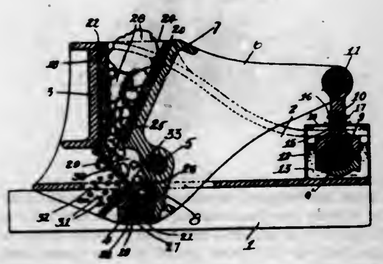
1. A canoe, skiff or the like, comprising a plurality of gunwales secured at their ends to the usual stem posts; a plurality of ribs secured to the said gunwales, said ribs having a wide intermediate portion with parallel sides adapted to contact with the adjacent rib, and the entire length of said wide portion, whereby the bottom of said canoe would be entirely closed and the sides provided with a plurality of slots or openings formed between said ribs; and a cover over said ribs, substantially as described.

1,346,870. SHOVEL ATTACHMENT. JOHN ZAOKIPNY, Baird, Ontario, Canada. Filed Nov. 7, 1919. Serial No. 336,466. 3 Claims. (Cl. 294—60.)



1. A shovel attachment of the character described comprising a recessed body, L-shaped in cross-section adapted to grip over the upper edge of a shovel blade, links pivoted to the front side of said attachment, and means for securing said links against said shovel.

1,346,871. CRUSHER. HERMAN P. ANDREESEN, Chicago, Ill. Filed Apr. 30, 1920. Serial No. 377,827. 7 Claims. (Cl. 83—54.)

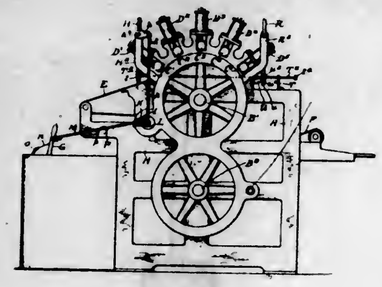


4. A crusher embodying therein a double action jaw member mounted for swinging movement, spaced crushing portions thereon, spaced stationary crushing portions with which they coact, the crushing portions on the swinging jaw member and the stationary crushing portions forming spaced pairs of crushing portions, and a sizing device arranged intermediate said spaced pairs of crushing portions.

1,346,872. SAFETY MECHANISM FOR IRONING-MACHINES. WILLIAM BARTHOLOMEW, Chicago, Ill., assignor to Troy Laundry Manufacturing Company, a Corporation of New York. Filed Dec. 10, 1914. Serial No. 876,534. 6 Claims. (Cl. 74—46.)

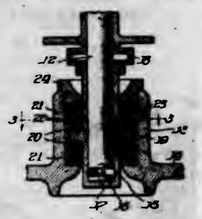
1. The combination with a machine having moving parts exposed at a plurality of places, of a device for controlling the operation of the machine, a safety guard for protecting each of the exposed places of the machine, means operatively connecting said safety guards with said device to

actuate the same to stop the operation of the machine when any of said guards is moved and means extending



from said guard to a remote part of the machine for manually moving the guard to actuate said device to stop the operation of the machine.

1,346,873. HEAT-PREVENTION MEANS FOR EXTRACTORS. WILLIAM BARTHOLOMEW, Chicago, Ill., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill., a Corporation of New York. Filed Nov. 3, 1917. Serial No. 200,028. 10 Claims. (Cl. 64—48.)



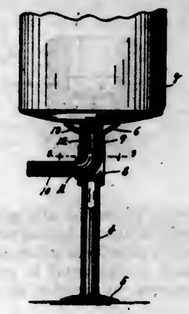
2. In a centrifugal extractor, the combination of a resilient spindle bearing bushing having a laterally extending flange, a bearing member engaging said flange to take up gyratory motion, and metal means associated with said bearing member and an adjacent element to permit relative movement therebetween to reduce the amount of friction.

1,346,874. RESISTANCE MATERIAL. HARRY T. BELLAMY, Oak Park, and BURTON T. SWEELY, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 16, 1918. Serial No. 262,852. 8 Claims. (Cl. 106—12.)

1. A compound having a high electrical resistance at high temperatures and comprising talc, silica sand, ball clay, and a glass binder.

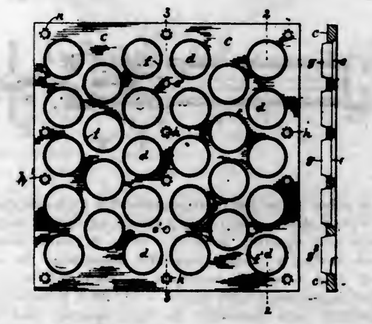
1,346,875. BOILER-STAND. OLAF S. BURMAN, Minneapolis, Minn. Filed Feb. 18, 1920. Serial No. 359,592. 2 Claims. (Cl. 126—363.)

1. The combination with a boiler, of a stand for supporting the boiler and provided with a transverse opening and a vertical passageway leading from said opening through the top of the stand, a pipe coupling extending into said opening, and a nipple connection secured to the



boiler extending through said vertical passageway and having screw-threaded engagement with the pipe coupling.

1,346,876. MEANS FOR HOLDING IMPRESSION-PLATES UPON HEATER-BEDS. CHARLES F. BURROUGHS, East Orange, N. J., assignor to Composition Machinery Corporation, Newark, N. J., a Corporation of New Jersey. Filed July 15, 1919. Serial No. 310,994. 5 Claims. (18—16.)



5. The combination, with a heater-bed having a plane surface, of a series of dies adapted to rest upon said surface and a holder having perforations adapted to receive the base of each die and provided with means for securing it upon the heater-bed, and a "force" having a plane surface, a series of counterpart dies adapted to sit upon said surface, a holder having perforations adapted to receive such counterpart dies, and means for securing the said holder upon the "force" with the counterpart dies in register with the dies upon the heater-bed.

1,346,877. FILLER-CAP FOR RECEPTACLES. CHARLES F. BURROUGHS, East Orange, N. J., assignor to Composition Machinery Corporation, Newark, N. J., a Corporation of New Jersey. Filed Jan. 15, 1920. Serial No. 351,697. 5 Claims. (Cl. 18—59.)

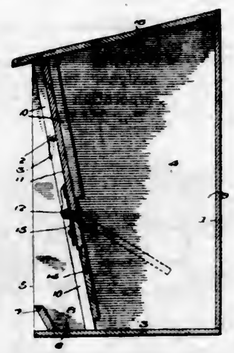


3. A screw-cap for receptacles, the said cap being molded of plastic material with a screw-thread therein,

and a plate of packing material molded into and locked within the material of the cap at the top of its socket and the margin of a plate extending under the bottom of such screw-thread and retained in place thereby.

4. The method of molding a screw-cap for receptacles with a packing-plate locked in the top of the socket, which consists in placing the plastic material in a suitable mold, applying the packing-plate to the surface of such plastic material and pressing such packing-plate upon the plastic material with a "force" of less diameter than the packing-plate, thus causing the periphery of the packing-plate to extend into the wall of the socket to hold the plate permanently in place.

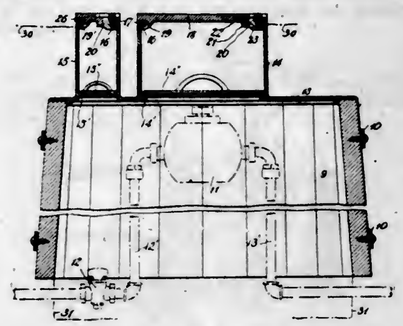
1,346,878. STOCK-FEEDING DEVICE. HAROLD C. M. CASE and WILBUR J. CARMICHAEL, Urbana, Ill. Filed Sept. 7, 1917. Serial No. 190,187. 1 Claim. (Cl. 119—53.)



A stock-feeding structure comprising bottom, side and back portions joined to form a feed-receiving receptacle; backing strips arranged on the sides; stop members also arranged on the sides and spaced apart in parallelism from the backing strips to form guides; a front section slidably disposed in the guides; means for maintaining the slidable section at different heights in respect to the bottom portion; a door secured to the front section and having its lower edge in spaced relation to the bottom of the trough and engageable with the stop members to limit its forward swinging movement; an extension on the bottom portion and projecting beyond the plane of the stop members, an upstanding member on the extension and arranged in spaced relation from the stop members and constituting, with the sides and bottom portions and the door, a trough in front of the door; the door normally lying at an angle to the vertical to maintain itself in engagement with the stop members and swingable away from the upstanding member to increase the size of the opening between its lower edge and the bottom; and a cover member movably secured to one of the portions and extending beyond the vertical plane of the bottom extension to protect the trough.

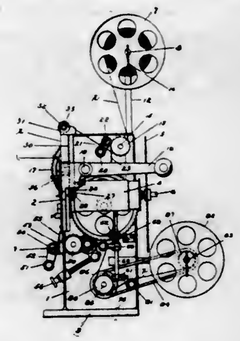
1,346,879. METER SERVICE-BOX AND HOUSING FOR CURB-COCKS. DWIGHT P. CHILD, Quincy, Ill. Filed Mar. 5, 1918. Serial No. 220,564. 5 Claims. (Cl. 137—13.)

3. The combination with a horizontal service pipe, of a vault into which the horizontal end portions of said pipe extend, a meter between said end portions and within the vault, a service cock on one of said horizontal end portions, a cover for the vault, separate upwardly extending necks on the cover in alinement with the meter, and cock respectively, separate lids on the upper ends of said necks



located substantially at the ground line and locks for said lids, substantially as described.

1,346,880. MOTION-PICTURE MACHINE. JOHN DARBY, Summit, N. J., assignor to Francis B. Griffin, New York, N. Y. Filed Mar. 16, 1916. Serial No. 84,510. 6 Claims. (Cl. 88—17.)



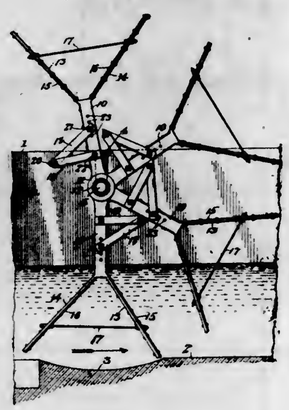
1. A motion picture machine including in combination picture projecting means, means for guiding the film past the projecting means, film feeding means including devices for intermittently feeding the film, and means for forming a reserve film loop at one side of the projecting means and comprising a longitudinally slidable rod and a film engaging roller mounted thereon, said roller in one position of said rod forming part of the film feeding means.

1,346,881. FISH SCREEN OR GUARD. GALEN J. DIXON, Bishop, Calif. Filed Mar. 22, 1920. Serial No. 367,587. 4 Claims. (Cl. 210—174.)

3. A fish guard comprising a shaft; a series of independently movable frames rotatably mounted on said shaft; each frame including a pair of arms longitudinally spaced on said shaft and having divergent end members, the angularity of the advance end member of each arm with respect to the main portion of the arm being less than that of the rear member, transverse blades connecting each pair of arms; and abutments on each frame adapted to engage a preceding frame and lift the latter to a point where it falls by gravity.

4. A fish guard comprising a shaft; a series of independently movable frames rotatably mounted on said shaft, each frame including a pair of arms longitudinally spaced on said shaft and having divergent end members, a trans-

verse blade connecting each pair of arms on the advance side thereof and extending substantially throughout the length of said arms, a transverse blade of less height con-



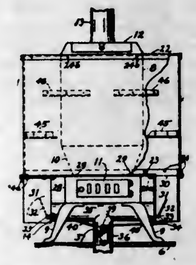
necting the rear members of each pair of arms; and abutments on each frame adapted to engage a preceding frame and lift the latter to a point where it falls by gravity.

1,346,882. ELECTROPNEUMATIC CONTROL. GEORGE P. FINNIGAN, Richmond, Va. Filed Aug. 4, 1913, Serial No. 782,923. Renewed Mar. 15, 1919. Serial No. 282,947. 76 Claims. (Cl. 246—63.)

5. In a mechanism, such as described, a body member having a portion adapted to be placed in communication with a train pipe under pressure, the body member being provided with an outlet communicating with a region of lower pressure, a valve for closing communication between the said portion and outlet, opposite parts of the valve being in communication with train pipe pressure whereby it is maintained in such position; electro-magnetic means comprising a member of magnetic material for bringing about a reduction of pressure adjacent one part of the valve with consequent movement thereof, the said portion and outlet then communicating with consequent reduction of train pipe pressure, and means for closing the said outlet after the valve has moved whereby reduction beyond a determined amount is prevented.

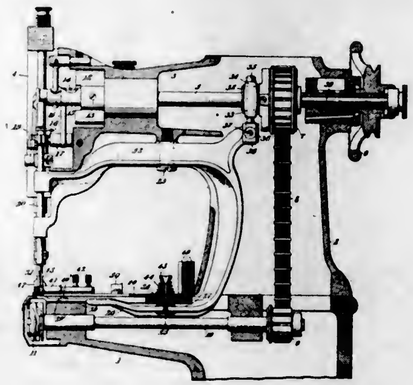
1,346,883. STOVE ATTACHMENT. SALVADOR H. FREDERICK, St. Paul, Minn. Filed Jan. 3, 1920. Serial No. 349,327. 9 Claims. (Cl. 126—80.)

1. The combination with a heating stove, of a jacket spaced about the stove and having a perforated top, and a bottom fitting about the stove close by the base thereof, said bottom having two apertures each with a tube depending below it outside the base of the stove and provided each with a valve, a T-shaped pipe having its arms connected one with each of said tubes and its leg extended down through the floor and arranged to receive fresh air, a valve in said leg above the floor, and operative connection between said valve and the valves in the



tubes, whereby the latter valves will close or open automatically in reverse order to the closing and opening of the valve in the leg.

1,346,884. SEWING-MACHINE. CHARLES F. GRAY, Sierra Madre, Calif., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Mar. 24, 1919. Serial No. 284,789. 6 Claims. (Cl. 112—137.)



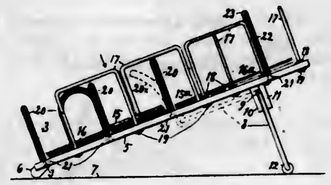
2. In a sewing machine, the combination with an endwise reciprocating and bodily laterally movable needle, means for imparting said movements to the needle, a feed-dog, and means for imparting feeding movements to said feed-dog in timed relation with respect to the lateral movements of the needle, of a binder, and means for actuating said binder to maintain a substantially constant relative position with respect to the lateral positions of said needle.

1,346,885. PROCESS OF PREPARING PRINTING-PLATES. ALBERT J. HAIN, Lakewood, Ohio. Filed June 11, 1917. Serial No. 174,049. 4 Claims. (Cl. 95—5.7.)



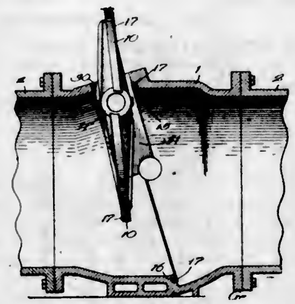
1. The method of preparing plates for printing reproduction of an image consisting in forming upon a plate uniform isolated protecting areas of minimum size, and increasing the size of said areas in every region of the plate in accordance with the value of the light or shadow in that region of the image to be reproduced.

1,346,886. POSTING-TRAY. LARS B. HALVERSON, Sioux Falls, S. D. Filed Feb. 19, 1919. Serial No. 278,091. 1 Claim. (Cl. 211—37.)



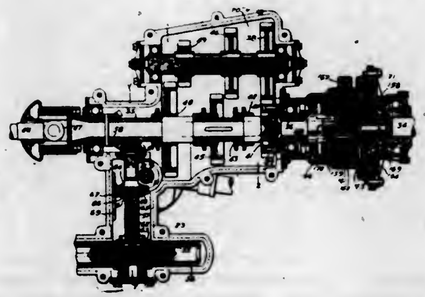
A posting tray having paper guards formed of coil-springs and shaped as arches; said arches having their legs secured to the base of the tray by screws passed through the base and screwed into the spring coils forming the lower ends of the legs of the arches.

1,346,887. VALVE. GEORGE W. HEALD, Chicago, Ill. Filed Feb. 21, 1919. Serial No. 278,553. 6 Claims. (Cl. 251—11.)



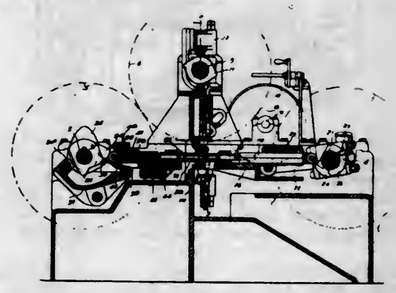
1. In combination, a substantially cylindrical valve casing, a disk-valve extending completely across said casing to close the passage through it, means for pivoting the valve to the casing at the point of its maximum diameter, the casing having a housing arranged in a plane transverse to the axis of the casing, the internal length of the housing being slightly greater than the diameter of the valve, whereby the valve may be withdrawn bodily from the casing without being shifted from the plane it occupies when closed, and a cover for closing the housing.

1,346,888. TRANSMISSION MECHANISM. HERBERT T. HEAD, Pittsburgh, Pa. Filed Aug. 28, 1915. Serial No. 47,782. 15 Claims. (Cl. 74—97.)



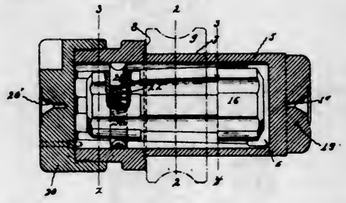
1. In combination with a transmission mechanism, a driven shaft, a load responsive device responsive to variations in the speed of the driven shaft of said mechanism for controlling the operation of said mechanism, and manually actuated means for controlling the operation of the mechanism and for rendering the load responsive mechanism ineffective.

1,346,889. NUT-MACHINE. ERNEST HOLLINGS, Cleveland, Ohio. Filed Aug. 20, 1917. Serial No. 187,306. 3 Claims. (Cl. 10—78.)



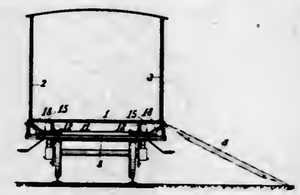
1. A nut machine, comprising a die block, reciprocating tools, a cam shaft for actuating said tools, and a lever operatively connecting said shaft and tools, said lever being arranged to serve as a reservoir for lubricant.

1,346,890. EXPANDING ARBOR. EMIL HOTTINGER, Philadelphia, Pa., assignor to Hess-Bright Manufacturing Company, Philadelphia, Pa., a Corporation of Delaware. Filed June 30, 1919. Serial No. 307,594. 17 Claims. (Cl. 82—44.)



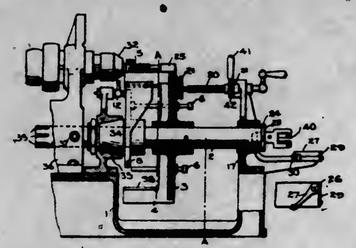
1. The combination with an elastically expansible arbor provided upon its exterior with a work seat, there being a chamber within said arbor, of an expander located wholly in said chamber and capable upon its movement to expand the same and adapted to be moved by the impact of a blow upon the end of the arbor.

1,346,891. RAILWAY-CAR. LIBERAT HUWYLER, Goldau, Switzerland. Filed Nov. 7, 1918. Serial No. 261,546. 7 Claims. (Cl. 214—85.)



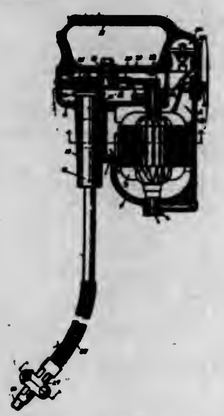
1. In a railway car, a skid having rollers on opposite sides near each end; skid supporting members under the car, including horizontal guides in which said rollers operate and also including inclined guides for said rollers, and gravity acting switches in the angles between said horizontal and inclined guides.

1,346,892. TURRET-LATHE. SZYMON JACHIMOWICZ, Geneva, Switzerland. Filed June 25, 1918. Serial No. 241,866. 11 Claims. (Cl. 29—47.)



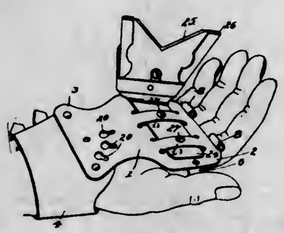
1. In a turret lathe, the combination of a live spindle with a chuck thereon, a turret spindle with a disk provided with means for holding tools fixed thereon, a rotatably mounted member for guiding axial motion of said disk, means for axial shifting of said disk and means for oscillating guiding member and therewith the disk.

1,346,893. GRINDER. CORWILL JACKSON, Kalamazoo, Mich. Filed Apr. 29, 1918. Serial No. 231,301. 15 Claims. (Cl. 74—14.)



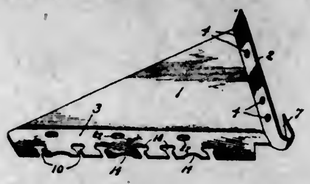
15. In a grinder, the combination of a frame adapted to be manually supported and manipulated relative to the work, a spindle on said frame, power means on said frame for oscillating said spindle, a chuck, and a coiled spring between said spindle and chuck adapted to flex, and adapted to yield under excessive resistance to the driving stress on the spindle and to constitute a cushioning member between the frame and the work.

1,346,894. HUSKING, SNAPPING, AND SHOCKING DEVICE. FREDERICK JACOBS, Cincinnati, Ohio. Filed Sept. 19, 1919. Serial No. 324,739. 3 Claims. (Cl. 294—25.)



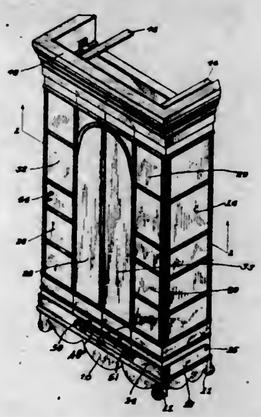
1. A device of the character specified, comprising a plate, means for securing said plate to the hand, a second plate hingedly secured to said plate, and prongs secured to each of said plates, said prongs being so disposed as to coöperate for gripping purposes.

1,346,895. SWITCH-BOX SUPPORT. STEPHEN GORDON JOHNSON, Detroit, Mich., assignor of one-half to Leon L. UTTER, Detroit, Mich. Filed Oct. 8, 1919. Serial No. 329,399. 3 Claims. (Cl. 248—18.)



1. A switch box support comprising a body generally trianguiar in form and having perforated flanges along two edges, said flanges being in planes at right angles to each other, one of the flanges being adapted to be secured to a structural member and the other flange to a switch box, the latter flange being at an oblique angle to the body of the support.

1,346,896. COMBINATION-BED. FRANK JUSZCZAK, Hagewisch, Ill. Filed Oct. 15, 1919. Serial No. 330,688. 1 Claim. (Cl. 5—37.)



In a folding bed, the combination with a base adapted to rest upon the floor, a hollow rectangular frame intimately engaged at the rear of said base and adapted to be positioned thereover, means for holding said frame when in a vertical position, means for releasing said frame, a pair of supports rigidly engaged at the extreme end of said frame, an ornamental cover removably engaged at the end of said frame, a wire mattress supported by said frame, stretcher rods extending lengthwise of said frame at the sides, side elements engaged with said frame, bolts whereby said side elements may be secured to the end elements of said frame, a plurality of plates engageable with the front of said frame, bolts carried by said plates at the top and bottom thereof whereby they may be secured in position, means for locking the outermost of said plates when in an engaged position, and means for releasing said outermost plate whereby the locking means for the other of said plates becomes accessible.

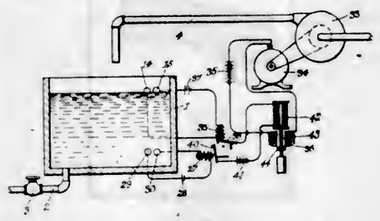
1,346,897. COLLAPSIBLE TUBE. CLIFFORD G. KING, Providence, R. I. Filed Feb. 20, 1920. Serial No. 360,203. 5 Claims. (Cl. 221—60.)

3. A collapsible tube, comprising a nozzle, a removable longitudinally-slidable cap in said nozzle, said cap having a side delivery-opening and a flanged head, the inner end of said cap being slotted and provided with projections



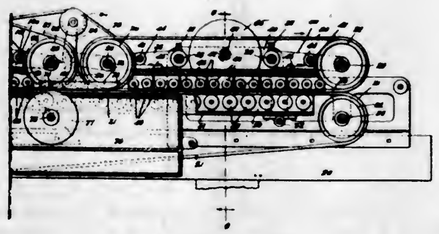
arranged to engage the inner surface of said nozzle, and a cap threaded to said nozzle and arranged to lock the slidable cap in closed position.

1,346,898. FLUID-FLOW-CONTROL MECHANISM. JOHN MCLEAN KINGSBURY, New York, N. Y. Filed Feb. 7, 1916. Serial No. 76,626. Renewed June 2, 1920. Serial No. 386,047. 5 Claims. (Cl. 137—68.)



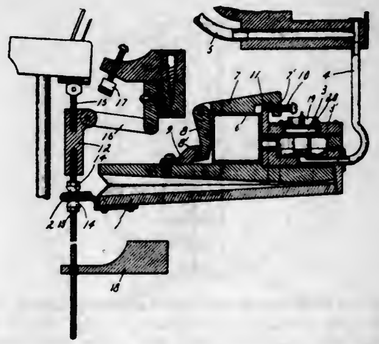
3. In combination, a vessel, means for feeding a conducting liquid to said vessel, electrical means for starting the flow of liquid, electrical means for stopping the flow of liquid, an electric circuit arrangement for each of said electrical means, the circuit arrangement for the starting means terminating in two stationary separated terminals disposed at the desired minimum level in said vessel, and the circuit arrangement for the stopping means terminating in two stationary separated terminals at the desired maximum level in said vessel, the respective circuits being closed by the contact of the liquid with said terminals, the liquid acting as part of the circuits.

1,346,899. MACHINE FOR MAKING BOXES. LEON E. LA BOMBARD, Chelsea, Mass., assignor to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Feb. 20, 1918. Serial No. 218,319. 33 Claims. (Cl. 93—49.)



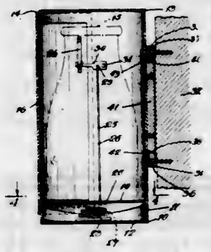
2. A machine of the character described comprising a pair of parallel bars, rolls supported by said bars, a blank-supporting belt mounted on said rolls, the upper edges of the bars extending above the plane of the tops of the rolls to provide edge guides for insuring travel of the belt in a straight path, and means coöperating with said belt for making boxes, said belt having a thickness to prevent it from being laterally buckled by the guides.

1,346,900. PNEUMATIC AND CONNECTION FOR PNEUMATIC PIANO-PLAYERS. WALTER LANE, Holland, Mich. Filed May 19, 1917. Serial No. 169,668. 6 Claims. (Cl. 84—56.)



1. In a structure of the class described, the combination with a suction chest having a port in its front side, of a pneumatic comprising a relatively fixed member disposed below said chest and having thereon a forwardly facing keeper disposed at the rear of said chest, a valve casing secured to said pneumatic and disposed on the front side of said chest and provided with a port registering with the said port thereof and with an upwardly projecting lug, a clip bar disposed to rest on said chest and provided with a lug depending in front of said lug on said valve casing, a keeper engaging member pivoted on said clip bar to engage said keeper and the rear side of said chest, and a screw disposed through said lug on said clip bar to engage said valve casing lug, whereby said pneumatic is detachably secured to said suction chest.

1,346,901. BOTTLE-HOLDER. ROCCO LOZZITTO and LOUIS MOSS, New York, N. Y. Filed July 11, 1918. Serial No. 244,393. 2 Claims. (Cl. 232—42.)

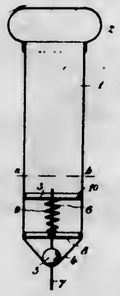


1. A holder of the class described including a casing having a swinging door, a false bottom mounted for vertical tilting movement adjacent the bottom of said casing, means constructed and arranged to be brought into operation by the downward tilting of the false bottom when an article is placed thereon for locking said door when the latter is closed, and automatic means to prevent the downward tilting of the false bottom when the door is open and to permit such tilting when the door is closed.

1,346,902. SEALING APPARATUS. ANDERS LINDAHL, Hässleholm, Sweden. Filed Oct. 9, 1919. Serial No. 329,546. 1 Claim. (Cl. 120—116.)

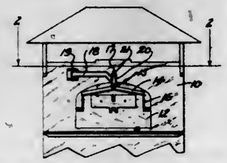
A sealing wax applying device comprising a pipe section having a restricted outlet, a plate arranged transversely

the pipe section to provide a support for a stick of sealing wax, a valve for closing said outlet, said valve having a stem projecting through and beyond the outlet in one direction and through said plate in the opposite direction,



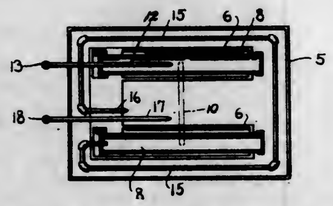
a spring for maintaining the valve normally seated, and a second plate arranged transversely the pipe section between the first mentioned plate and outlet, said second plate serving to limit the opening movement of the valve.

1,346,903. CRANE-HINGE FOR MUFFLE-FURNACE DOORS. GEORGE W. LINDSAY, Denver, Colo., assignor to Denver Fire Clay Company, Denver, Colo., a Corporation of Delaware. Filed Sept. 23, 1918. Serial No. 255,328. 5 Claims. (Cl. 16—106.)



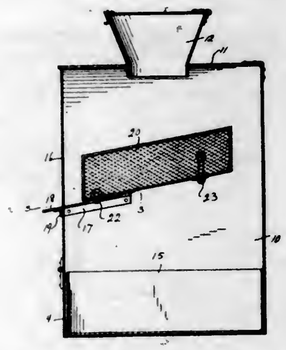
1. A mounting for muffle furnace doors comprising in combination with a furnace and its door, a crane hingedly mounted at one end on the furnace and having a swivel connection at its other end with the door the crane portion of said swivel connection being positioned above the door, whereby the door may be swung out beneath the crane.

1,346,904. BURNER. WILLIAM G. LUTTINGER, Jerome, Ariz. Filed Apr. 23, 1919. Serial No. 292,038. 1 Claim. (Cl. 158—92.)



A burner of the class described comprising, in combination, spaced tanks, each of said tanks being closed, a connection between the tops of the tanks whereby one of said tanks discharges into the other, a nozzle leading from a source of water supply and discharging within one of the tanks through an end thereof and extending axially of the tank a material distance therein, the walls of the nozzle within said tank being perforated, a conduit leading from the second tank and terminating in a nozzle positioned between the tanks and extending inwardly thereof and in close proximity thereto, said conduit leading from the end of the second tank corresponding to the end of the first tank through which the nozzle extends, said conduit extending around the tanks, the portions of the conduit, the nozzle and the tanks being substantially coplanar, and an oil nozzle positioned between the tanks and in close proximity to the first named nozzle, the discharge end of the first named nozzle being inwardly of the discharge end of the second named nozzle.

1,346,905. COAL-SCREEN AND ASH-SIFTER. TIMOTHY MCGOLDRICK, Lincoln, N. H. Filed Nov. 5, 1919. Serial No. 335,921. 1 Claim. (Cl. 83—60.)



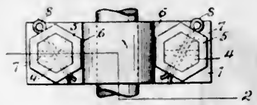
A screening device of the character described comprising a casing having an opening in its front wall, an apron secured to the casing, and extending through said opening, said apron inclined toward the top of the casing and having extensions on its rear end portions to provide spaced parallel inclined tracks, a screen receptacle disposed between said tracks in spaced relation thereto, said receptacle being open at its top and one end, an axle mounted on the bottom of the receptacle adjacent said open end, rollers on the end of said axle adapted to engage the tracks to movably support the open end portion of said receptacle adjacent the apron, and operating means carried by the other end portion of said receptacle.

1,346,906. DRAFT-HOOK. IRA H. MONTELIUS, Portland, Oreg. Filed Jan. 5, 1920. Serial No. 349,493. 2 Claims. (Cl. 24—232.)



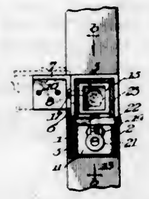
1. In a device of the character described, the combination of, a hook of common type having a flat surfaced head, and a member having a flat surfaced head pivoted in sliding engagement with the flat head of the hook, also having forked parts extending downwardly between the hook shank and bill a desired distance, said forked parts being provided with angled wings extending outwardly alongside the opposing surfaces of the hook shank, in position to engage the opposing surfaces of the shank as the member swings to and fro on its pivot, for the purposes indicated.

1,346,907. BOLT-LOCK. SWENEY MUNSON, Fowler, Colo. Filed Jan. 17, 1919. Serial No. 271,589. 1 Claim. (Cl. 151—32.)



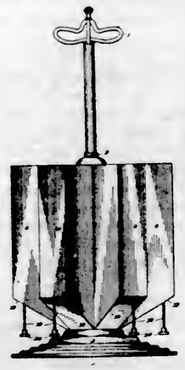
In a bolt lock, the combination with an angle plate, of a bolt extending through one flange of said plate and having a head other than circular bearing against said flange, a collar embracing and fitted to the sides only of said bolt head and at one side having a bearing against the other flange of said plate, the other side of the collar being clear of said plate, and a pin insertible through and removable from the collar and the head of said bolt while the collar is in the locked position, substantially as set forth.

1,346,908. BED-RAIL FASTENER. MORRIS B. OKUN, Chicago, Ill., assignor to The Seng Company, Chicago, Ill. Filed Mar. 3, 1916. Serial No. 81,861. 13 Claims. (Cl. 5—55.)

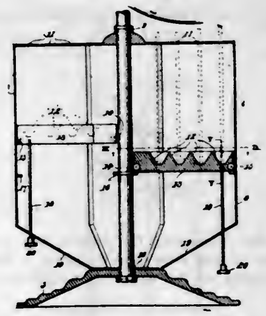


1. A bed rail fastener of the character described comprising a housing made of a single blank of metal having a top wall, two side walls and an end wall, said end wall being adapted to abut a corner post, said end wall having an extension thereof forwardly along one side wall, said extension having a longitudinally extending bracket adapted to receive an end rail.

1,346,909. DINING-CUTLERY HOLDER. ANDREW ONUFRYK, Rochester, N. Y. Filed Mar. 12, 1920. Serial No. 365,217. 5 Claims. (Cl. 65—65.)

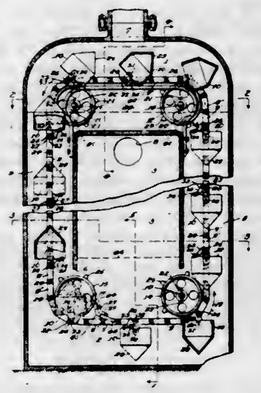


3. In a cutlery serving stand of the class described, a revolubly mounted casing composed of radial compartments having transversely elongated slots in their top walls, vertically movable slides disposed within said compartments and having pockets in their upper faces alined with said slots, means for vertically moving said slides, an upright standard arranged centrally of said casing,



and anti-friction means upon the ends of said slides engaging said standard and the outer walls of said compartments.

1,346,910. FLUIDAL APPARATUS. MILLARD P. OSBOURN, Philadelphia, Pa. Filed July 3, 1919. Serial No. 308,600. 8 Claims. (Cl. 230—16.)

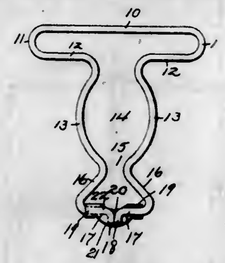


6. In an apparatus for operating upon fluidal materials of different densities, the combination of a container for containing such materials in different strata, movable means for conveying the fluidal material of the lesser density through the fluidal material of greater density whereby said conveyed material is exposed to pressure, stationary means operable on said movable means for delivering and exposing said compressed material to active material of different density.

1,346,911. BUTTON-LOOP. CARL E. PETERSON, Montclair, N. J., assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Filed May 3, 1920. Serial No. 378,577. 2 Claims. (Cl. 24—245.)

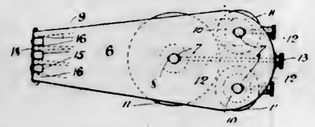
1. A button loop comprising a pair of spring arms forming a contracted portion near one end of the loop, the arms being divergent beyond said portion and being then bent inward so that they abut, the inwardly bent portions having their ends bent outward relative to said contracted portion, and a clip with sleeves on its ends in

which the inwardly bent portions of the wire loosely fit and freely slide, the clip having on each side a flat



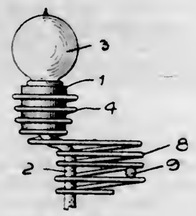
arcuate portion connecting the sleeves, said portions covering the ends of the wire and forming a depressed part for the reception of the shank of a button.

1,346,912. RUBBER STAMP. FREDERICK PITMAN, East Kew, Victoria, Australia. Filed Feb. 7, 1919. Serial No. 275,562. 1 Claim. (Cl. 101—111.)



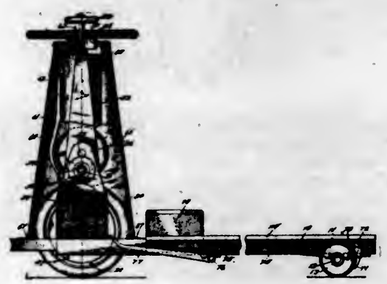
In a stamp of the character described, the combination of a sheet metal casing having at one end a movable closing member provided with openings, a plurality of transverse spindles supported in the side walls of said casing, one of said spindles being located in the medial longitudinal plane of the casing and the other two spindles being disposed above said first named spindle in a common transverse plane of the casing, disks supported on said spindles, smaller disks associated with said first named disks, the larger disks projecting from the top and bottom wall of the casing, type bands trained over said smaller disks, bridge members traversing the end of the casing adjacent the removable closing member, and a plurality of threaded stems engaging the spindles and projecting through the casing, said threaded stems being adapted to adjust the distance of said spindles from said closing member independently of each other to permit of tensioning or releasing of the type bands.

1,346,913. LAMP-SUPPORT. FRANCIS M. ROSENFELD, New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J., a Corporation of New Jersey. Filed Feb. 21, 1919. Serial No. 278,497. 2 Claims. (Cl. 248—42.)



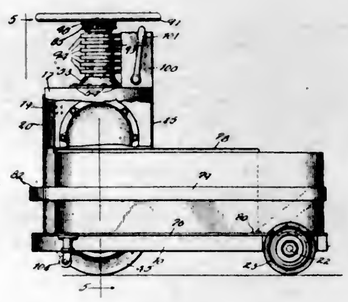
2. A lamp support comprising two coils arranged end to end in a continuous strip of wire, the diameter of one coil being greater than that of the other coil, said coils having parallel axes and being disposed eccentrically with respect to each other.

1,346,914. MOTOR-VEHICLE. HERBERT J. SAUVAGE, Chicago, Ill. Filed Aug. 4, 1915. Serial No. 43,511. 34 Claims. (Cl. 180—26.)



1. A motor vehicle embodying a load receiving platform, a traction wheel connected with the platform and rotatable on horizontal and upright axes, a steering column with which the wheel is connected, said column movable with the wheel about said upright axis, a motor supported by the column and operatively connected with the wheel for rotating it on such horizontal axis, and a support upon which the operator may stand at any point around the column.

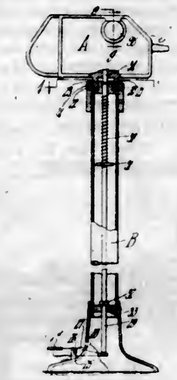
1,346,915. TRACTOR. HERBERT J. SAUVAGE, Chicago, Ill. Filed June 16, 1917. Serial No. 175,071. 22 Claims. (Cl. 180—26.)



1. A motor vehicle embodying a supporting structure, an upright frame, a traction wheel journaled to the frame, a motor for driving the traction wheel, said motor being supported by the frame, a bearing disposed between the frame and the said structure adjacent the upper end of the frame for receiving the end thrust of the frame and for supporting the said supporting structure, and a lateral thrust bearing disposed between the said supporting structure and frame and spaced from the first recited bearing, said motor being disposed above the said traction wheel and intermediate the said bearings.

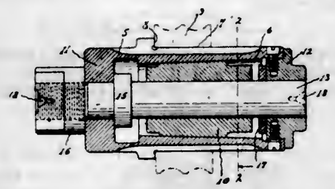
1,346,916. STRIP-PUNCHING APPARATUS. BENJAMIN M. SHANKLIN, Springfield, Mass. Filed Nov. 5, 1918. Serial No. 261,196. 10 Claims. (Cl. 164—86.)

1. In a strip punching apparatus, two depressible punches, a frame depressible toward said punches, a punch actuating member carried by said frame and slidable therein from a position wherein it is effective to engage one of said punches to a position wherein it is effective to engage the other of said punches on depression of said frame, a stationary frame, and means carried by the latter



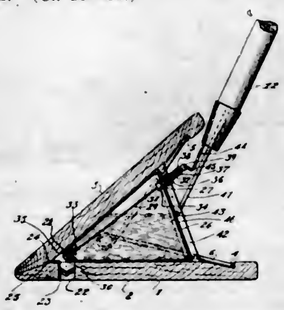
to shift said member from one position to the other, said means including connections to permit relative movement between said frames.

1,346,917. EXPANDING ARBOR. CORTIS F. SHERMAN, Hartford, Conn., assignor to Hess-Bright Manufacturing Company, Philadelphia, Pa., a Corporation of Delaware. Filed July 11, 1919, Serial No. 310,088. Renewed June 7, 1920. Serial No. 387,158. 6 Claims. (Cl. 82—44.)



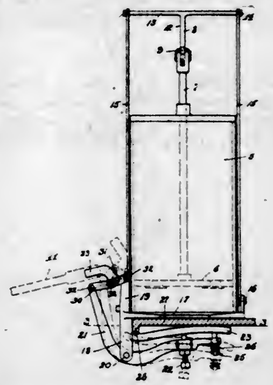
1. An expanding arbor, comprising a shell having elastic side walls, provided on the exterior with a work seat, the walls of the shell forming a closed chamber, a guiding bar carried by the end walls of the shell, and a weighted expander plug mounted on said bar for reciprocation within the chamber and adapted to act upon the elastic side walls for expanding the same and the work seat.

1,346,918. FLOOR-POLISHER. EUGENE L. SNYDER, Canton, Ohio. Filed Apr. 16, 1920. Serial No. 374,364. 6 Claims. (Cl. 15—51.)



1. A device of the character described including a polishing head having two converging side members, a handle pivotally connected to said head, a strip of fabric located around said side members and over the free ends thereof and a spring mounted between said side members and engaging the end portions of said fabric strip.

1,346,919. TIRE-PUMP. CHARLES M. STARR, South Bend, Ind. Filed May 10, 1919. Serial No. 296,172. 6 Claims. (Cl. 248—30.)



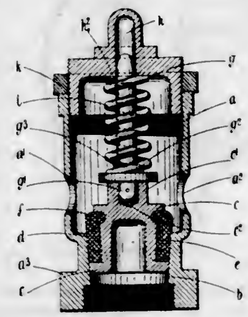
4. A clamping means including a support, a clamping lever mounted on the support and in part extending beneath the same, an elongated curved bearing head carried by the lever, and means for vertically adjusting the bearing head with relation to the lever and to permit a tilting movement thereof.

1,346,920. HAIR-CURLER. HERTHA STEINACHER, New York, N. Y. Filed Feb. 16, 1920. Serial No. 359,084. 1 Claim. (Cl. 132—18.)



A hair curler, consisting of an elongated coil of resilient wire of normally straight form and having an end provided with a reëntrant longitudinal recess, and an opposite longitudinal projection of rigid material adapted for engagement with said recess to hold said coil in annular form, and a cover for said coil of wire.

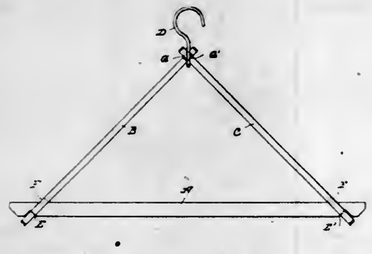
1,346,921. AUTOMATIC VALVE. EDWARD TERRY, London, England. Filed Jan. 22, 1919. Serial No. 272,591. 1 Claim. (Cl. 137—53.)



An automatic valve in which the valve is of truncated conical form provided with a rabbeted or recessed portion

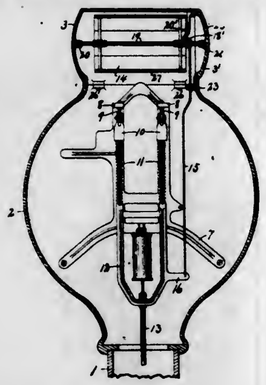
for the reception of a ring or band of rubber or other resilient material and with an annular groove or recess at the upper end of the said rabbeted portion into which groove the said ring or band engages and in which the valve stem is formed separately from the valve and engaged therewith at the lower end by means of a step bearing of large surface and at the upper end enters a recess forme din a screw cap or cover a spring being arranged directly upon the stem between a collar on the stem the valve and the cover for enabling the desired degree of tension to be applied to the valve substantially as herein described.

1,346,922. COLLAPSIBLE HANGER. LAYTON WATTON TOWNSEND, Hamilton, Ontario, Canada, assignor to Henry Aitchison Chilman, Hamilton, Ontario, Canada. Filed Jan. 22, 1920. Serial No. 353,238. 1 Claim. (Cl. 211—13.)



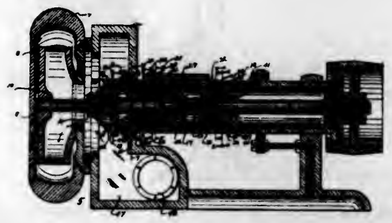
A collapsible hanger, comprising a bottom or base section which is provided with two notches at or near its lower ends, two side or supporting sections provided with elongated slots in one end thereof for receiving and holding the base section, notches formed in the upper ends of said side or supporting sections which adapts them to interlock with each other, together with a hook which embraces the upper ends of said sections for holding them rigidly together and forming means for supporting the hanger proper, all substantially as shown and for the purposes described.

1,346,923. ADVERTISING DEVICE FOR WEIGHING-SCALES. WILLIAM J. VANDERCAR, Cohoes, N. Y., assignor to Colonial Machine Company, Inc., Syracuse, N. Y., a Corporation of Delaware. Filed Feb. 28, 1920. Serial No. 362,081. 2 Claims. (Cl. 40—28.)



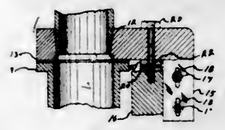
1. In a weighing scale of the character described, the combination of a dial case, a supplemental case mounted upon the top of the dial case and provided with an opening in one side, and also having a movable end wall to permit access to the interior thereof, a vertical reciprocatory frame within the dial case, a drum rotatably mounted within the supplemental case and movable across said opening, a ratchet wheel on one end of the drum, a pawl engaged with the ratchet wheel and a rod connecting the movable frame with said pawl to cause the rotation of the drum step by step one tooth space at a time at each successive movement of the frame in one direction.

1,346,924. CENTRIFUGAL PUMP. ARTHUR R. WILFLEY, Denver, Colo. Filed June 13, 1919. Serial No. 303,891. 10 Claims. (Cl. 103—43.)



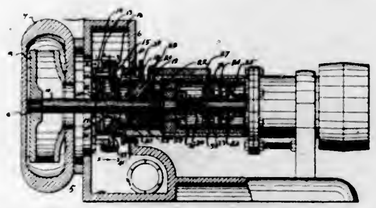
1. A centrifugal pump whose casing is provided with an opening through which the runner shaft passes, said opening being in communication with the runner chamber, and two coöperating members spaced from the runner in the direction of the shaft, and mounted adjacent said opening, one member being connected to rotate with the shaft and having a bladed cavity in communication with said opening, the other member being non-rotatable and having a face in close proximity to the bladed cavity of the rotary member.

1,346,925. STANDPIPE CONNECTION FOR CENTRIFUGAL PUMPS. ARTHUR R. WILFLEY, Denver, Colo. Filed June 16, 1919. Serial No. 304,502. 11 Claims. (Cl. 285—1.)



11. The combination with a pump casing and stand pipe, of an interposed disjointing collar, adjustably mounted on the framework of the pump.

1,346,926. CENTRIFUGAL PUMP. ARTHUR R. WILFLEY, Denver, Colo. Filed June 30, 1919. Serial No. 307,799. 7 Claims. (Cl. 103—43.)



1. A centrifugal pump, whose casing is provided with a suction opening and an opening through which the shaft passes, said pump having a member inclosing an auxiliary chamber around the shaft, which last named chamber is in communication with the runner chamber and also with said shaft opening, a second member located in the auxiliary chamber, one of the said members being connected to

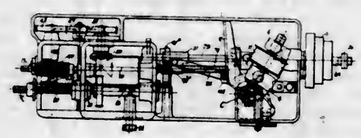
rotate with the shaft, and the two members being constructed to coöperate to form a water seal between the two members at the outer portion of the auxiliary chamber to prevent the passage of air from the last named chamber toward the runner chamber.

1,346,927. TRAILER. SIDNEY B. WINN, Lapeer, Mich., assignor to Lapeer Tractor Truck Company, Lapeer, Mich, a Corporation of Michigan. Filed Aug. 23, 1918. Serial No. 251,046. 6 Claims. (Cl. 280—33.1.)



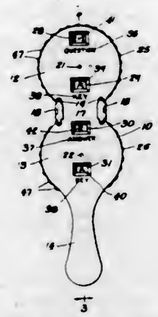
1. In combination, a trailer of the single truck type, a movable rest member carried by the forward end of the trailer and adapted to move to and from a position to form a support for such end when the trailer is detached, and brake mechanism for the truck, said mechanism having connection with said rest member operative to apply the brakes when said member is placed in rest position, said mechanism also including means for applying such brakes at will while the rest member is out of such position.

1,346,928. MACHINE FOR FORMING GROOVES OR FLUTES IN TWIST-DRILLS AND THE LIKE. ISAAC HENRY WRIGHT, Manchester, England, assignor to Smith & Coventry Limited, Manchester, England. Filed Aug. 4, 1917. Serial No. 184,465. 3 Claims. (Cl. 90—15.)



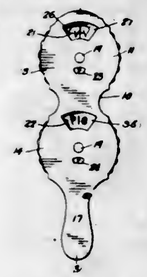
1. A machine for making twist drills comprising a work carrying mechanism including a work spindle, a turret rotatably mounted upon said spindle on an axis which is oblique to the axis of said spindle, a plurality of work holding members mounted on said turret, a cutter, said turret being adapted to rotate during the cutting operation of the drills, means for automatically moving said turret about the work spindle to successively present the surfaces for grooves in each drill to the cutter, and means for automatically moving the turret about its oblique axis for presenting successive pieces of work to the cutter.

1,346,929. EDUCATIONAL DEVICE. ISIDOR ZION, Ridgefield, N. J. Filed May 26, 1919. Serial No. 299,913. 2 Claims. (Cl. 35—12.)



1. An educational device of the class described comprising a suitable holder, and a pair of disks or dials movably mounted in said holder on independent supports, one of said disks or dials being provided with question data and the other with answer data.

1,346,930. EDUCATIONAL DEVICE. ISIDOR ZION, Ridgefield, N. J. Filed Dec. 29, 1919. Serial No. 347,889. 8 Claims. (Cl. 35—9.)



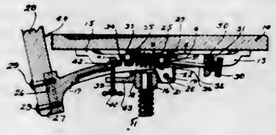
1. An educational device of the class described comprising a holder composed of two approximately similar parts, attaching devices secured to each of said parts for detachably connecting the separate parts of the device, disks or dials rotatably mounted on the attaching devices of one of said parts, said disks or dials being located between the separate parts of the holder and protruding beyond said parts to permit of the manipulating thereof.

1,346,931. CORN-HUSKING CYLINDER. OTIS ADAMS, near Rio, Illinois, assignor of one-half to Fred Cooper, near Rio, Illinois. Filed June 17, 1918. Serial No. 240,358. 1 Claim. (Cl. 130—5.)



A corn husking apparatus comprising a driving shaft, a rotary cylinder geared to said driving shaft, said cylinder comprising a plurality of circular disks, a plurality of circular rods symmetrically arranged and spaced approximately the diameter of the rods, secured to the peripheries of said disks, the portions of the disk intermediate the rods being concave, and a similar cylinder yieldingly mounted in meshing engagement with said first mentioned cylinder and driven thereby, the rods of each cylinder having a rolling action on the rods of the other cylinder.

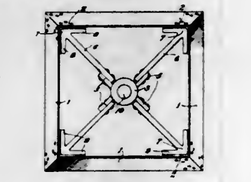
1,346,932. CHAIR. HARRY A. ATWOOD, Milwaukee, Wis. Filed Mar. 23, 1920. Serial No. 367,993. 5 Claims. (Cl. 155—157.)

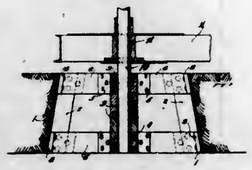


1. A chair iron comprising a seat portion supporting frame, a chair back supporting member having its inner end pivotally connected to said supporting frame and its outer end connected with a chair back portion, a projection on the inner end of said chair back supporting member above its pivotal connection with the supporting frame, a spring tension rod connected with said support-

ing frame and having its rear end rearwardly of the pivot of said chair back supporting member, and a cushion spring having one end pressing against said projection and its other end pressing against the rear end of the tension rod.

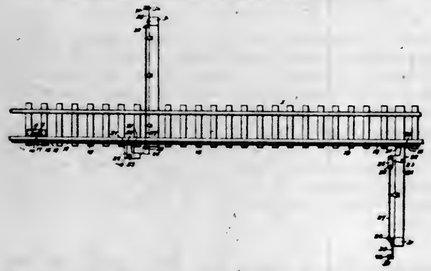
1,346,933. ANCHOR FOR STUMP-PULLING MACHINES AND THE LIKE. HARRY E. BARBER, Green Cove Springs, Fla., assignor, by mesne assignments, to The American Clearing Company, Hamilton, Ohio, a Corporation of Delaware. Filed Aug. 22, 1919. Serial No. 319,134. 9 Claims. (Cl. 189—90.)





6. An anchor of the character described comprising a body portion rectangular in cross section and having upwardly converging walls, radial arms having angular heads at their outer ends seated in the corners of said body portion and rigidly secured thereto, a bearing arranged centrally of said body portion and rigidly secured to the inner ends of the several arms, and a shaft mounted in said bearing.

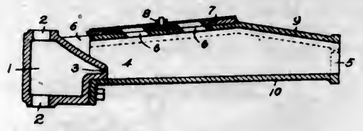
1,346,934. AUTOMATIC SIGNAL-ACTUATING MECHANISM FOR RAILWAYS. SAMUEL FARRIS BASHARA, Houston, Tex. Filed Mar. 15, 1918. Serial No. 222,728. 5 Claims. (Cl. 246—313.)



4. An automatic signal actuating mechanism comprising a housing located adjacent the rail, a plunger positioned and adapted to be depressed within the housing and having a head with which the car wheels are adapted to contact, a laterally projecting pin on the plunger, a guide plate in which said pin is adapted to reciprocate vertically, a bell crank lever pivoted on said plate and having a horizontally arranged slot to receive said pin, said lever having operative connection with a signal arm.

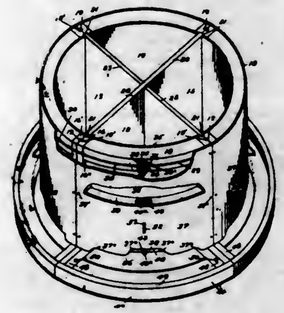
1,346,935. METHOD AND APPARATUS FOR PRODUCING A COMBUSTIBLE MIXTURE. SAMUEL G. BAIGEL, Pittsburgh, Pa., assignor to John M. Haverty, trustee, Pittsburgh, Pa. Filed Sept. 24, 1919. Serial No. 326,050. 9 Claims. (Cl. 158—118.)

9. In a gas burner the combination of a mixing chamber a gas chamber having a nose projecting into one end of the mixing chamber and having an outlet adapted to direct a stream of gas lighter than air and having a width greater than its depth or thickness into the mixing chamber at a point adjacent to the bottom of said chamber, said mixing chamber being provided with ports



arranged to direct air for combustion into the chamber above the plane of flow of the gas through the mixing chamber whereby the gas and air for combustion are free to mingle by reason of their difference in specific gravity, and means for regulating the flow of air into the mixing chamber.

1,346,936. ANIMAL-FEEDER. CHARLES F. BROWN, South Ridge, Kans. Filed Feb. 21, 1919. Serial No. 278,459. 2 Claims. (Cl. 119—54.)



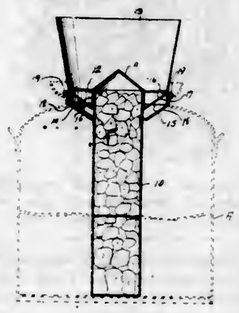
1. In a feeding receptacle, the combination with a compartment for the feed, having a discharge opening and a vertically movable valve plate having its ends parallel with the sides of said opening, a vertical stationary guide rod located equi distant from the ends of said valve plate and acting to hold the valve against rocking movement, a snubbing block connected with said valve plate and slidingly mounted, and a compression spring on said rod bearing upon the upper end of the snubbing block.

1,346,937. MILK COOLER AND STRAINER. LEWIS F. BUTMAN, Randolph, and CHANCY E. BIXBY, Barre, Vt. Filed Aug. 22, 1919. Serial No. 319,200. 3 Claims. (Cl. 31—14.)

1. A device of the character described comprising an ice receptacle adapted to be disposed within a milk can and having a removable cap at its upper end, an annular receiver surrounding the cap and projecting above it, a wire gauze strainer attached to the lower edge of the receiver and extending to the cap, the receiver having an annular flange extending downward below the strainer, and an annular member formed to fit snugly upon the exterior of the last named flange and having a portion extending downward and inward toward the ice receptacle but spaced slightly therefrom when in operative position.

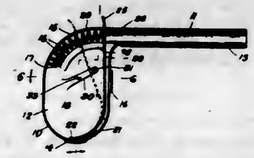
2. A device of the character described comprising an ice receptacle adapted to be disposed within a milk can

and having a removable cap at its upper end, an annular receiver surrounding the cap and projecting above it, a wire gauze strainer attached to the lower edge of the receiver and extending to the cap, the receiver having an annular flange extending downward below the strainer, and an annular member formed to fit snugly upon the exterior of the last named flange and having a portion extending downward and inward from the ice receptacle but spaced slightly therefrom when in operative position, the upper edge of the annular member being outwardly turned and beaded.



3. A device of the character described comprising an ice receptacle adapted to be disposed within a milk can and having a movable cap at its upper end, an annular receiver mounted upon and surrounding the cap and projecting above it, a strainer attached to the lower edge of the receiver and extending to the cap, and a deflector formed to detachably engage the lower portion of the receiver and having a portion disposed below the strainer and extending downward and inward from the receiver into a position adjacent to but spaced slightly from the ice receptacle to thereby deflect the milk discharged from the reciver into contact with the wall of the ice receptacle.

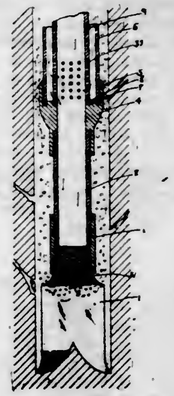
1,346,938. TOY PISTOL. ARVID F. CARLIN, New York, N. Y. Filed Aug. 19, 1919. Serial No. 318,482. 4 Claims. (Cl. 124—12.)



1. A toy pistol of the class described made from a single sheet of metal fashioned to form a barrel portion and a handle portion, means for securing and holding said barrel and handle portions in position, a trigger member movably mounted in said handle portion, and a movable catch device formed integrally with said handle portion and adapted to operate in connection with said trigger member.

1,346,939. METHOD OF SAMPLING. ROBERT E. CARMICHAEL, Damon, Tex. Filed Dec. 1, 1919. Serial No. 341,667. 2 Claims. (Cl. 255—1.)

1. A method of raising the cuttings from an earth boring drill to the surface comprising forcing a stream of flushing liquid downwardly through the drill stem and through channels in the bit to the bottom of the hole, forcing downwardly outside of the drill stem a current of compressed air, forcing the same into the drill stem toward the lower end thereof and causing the air to pass



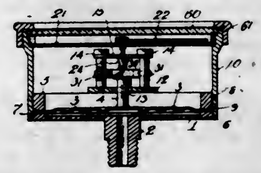
downwardly through the bit to unite with the flushing liquid and lift the cuttings and flushing material to the surface outside said drill and drill stem.

1,346,940. APPARATUS FOR BINDING FRACTURED BONES. ASA W. COLLINS, San Francisco, Calif. Filed Oct. 28, 1919. Serial No. 333,968. 2 Claims. (Cl. 128—92.)



1. In means for tightening a band around a fractured bone, said band having a loop and strap extending from one end thereof, a traveling member, means for securing the strap to said traveling member, a screw on which said traveling member travels, means for supporting said screw, and a finger pivoted on said supporting means and having a slot through which said strap extends.

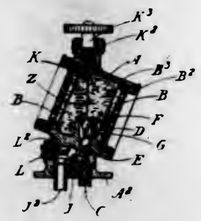
1,346,941. PRESSURE-GAGE. ERNEST B. CROCKER, Stratford, Conn., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 13, 1919. Serial No. 270,807. 4 Claims. (Cl. 73—110.)



1. In a pressure gage, a base member having an annular shoulder, a case to which the base member is fitted

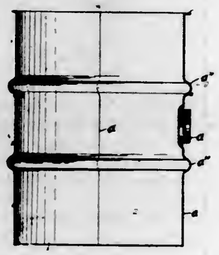
for said shoulder to rest against the edge of the case, a ring fitting in said case, a diaphragm held at its edge between said base member and ring, a pin carried by said diaphragm, a frame member supported by said ring, said pin working freely through an opening in said frame member, supports carried by said frame member, a yoke fulcrumed upon said supports, an arm carried by said yoke and having a portion arranged in the path of movement of said pin, a pointer, an arbor therefor, said arbor having a spiral portion, said arm arranged to engage and work against the surface of said spiral portion.

1,346,942. SIGHT-FEED LUBRICATOR. WILLIAM WILSON DOUGLAS and STEPHEN LESLIE BAILEY, Bristol, England. Filed May 12, 1919. Serial No. 296,365. 4 Claims. (Cl. 184—96.)



1. In a sight feed lubricator, the combination of an inclined chamber provided with a glass end, an inlet for oil in the lowest part of said chamber, a nozzle projecting into said chamber from said inlet, a non-return valve in said inlet, a regulating valve in said nozzle, a spring tending to keep both said valves closed, a spindle having an adjustable engagement with the chamber wall opposite said nozzle and arranged to control said regulating valve, and an outlet in the highest part of the chamber.

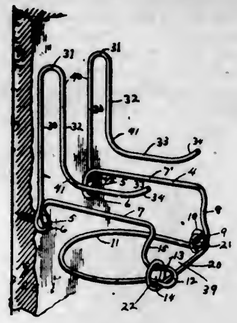
1,346,943. METHOD OF PROTECTIVELY COATING SHEET-METAL CONTAINERS. CHARLES T. DRAPER, Cleveland, Ohio, assignor to The Draper Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 10, 1916. Serial No. 102,890. 10 Claims. (Cl. 113—112.)



1. The method of protectively coating sheet-metal containers having finished metallic portions, which consists in sealing the finished portions thereof, cleaning said container and dipping it to obtain exterior and interior immersion in molten metal until an adhering exterior and interior covering becomes attached thereto, and thereafter removing the sealing member while the adhering metal is still hot, substantially as set forth.

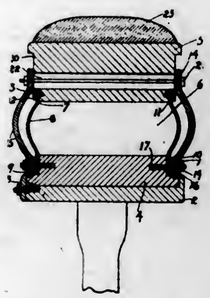
1,346,944. OBJECT-HOLDER. GEORGE W. DRIGGS and FRANK R. HENKE, Elyria, Ohio. Filed Apr. 26, 1919. Serial No. 292,890. 3 Claims. (Cl. 248—20.)

1. In a device of the class described, the combination of eyes for screws, supporting members connected to said screw eyes and extending therefrom, a spring-mouthed loop for holding bottles or the like and means for connecting said supporting members and said loop together, a bar eye formed at each end of said loop, a bar hinged in one of said eyes for connecting the ends of the loop



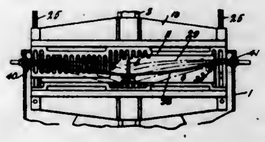
together, said eyes for screws, said supporting members, said inter-connecting members and said bar eyes and said loop all made of a single piece of wire.

1,346,945. PNEUMATIC TIRE. CHARLES DROUET, Houston, Tex. Filed Apr. 4, 1919. Serial No. 287,439. 3 Claims. (Cl. 152—35.)



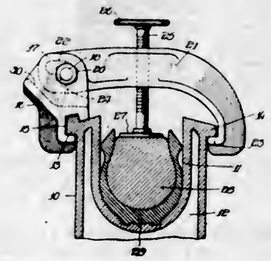
1. A pneumatic tire comprising an inner rigid rim adapted to be detachably secured to the rim of a vehicle wheel, a solid outer rim of rigid material spaced from said inner rim, annular resilient diaphragms connecting said rims in air tight relation, a rigid plate secured to each side of said inner rim outside said diaphragm and slidable on said outer rim and rods passing through said outer rim and said plates to retain said plates slidably on said outer rim.

1,346,946. PROCESS OF SHAPING AND TEMPERING METAL. THOMAS J. FAY, Brooklyn, N. Y., assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Aug. 11, 1915, Serial No. 44,875. Divided and this application filed Aug. 16, 1917. Serial No. 186,462. 9 Claims. (Cl. 266—6.)



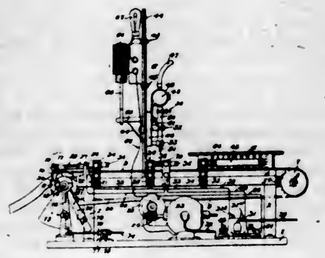
9. The process of treating a metal plate which comprises heating the same to a temperature above the upper critical point, clamping the plate between suitably shaped forms, and passing the clamped plate through oppositely directed streams of water and into baths of oil and water.

1,346,947. CLAMP. WALTER R. FONTAINE, Chicago, Ill., assignor to Western Vulcanizer Manufacturing Company, Chicago, Ill., a Copartnership consisting of Herbert K. Wheelock, Frank A. Weller, and Walter R. Fontaine. Filed Aug. 27, 1919. Serial No. 320,117. 8 Claims. (Cl. 18—43.)



1. A clamp comprising a retaining arm adapted to engage a relatively fixed flange, a clamping arm pivotally attached to said retaining arm and bodily movable with respect thereto, said clamping arm also being adapted to engage a relatively fixed flange, and means for retaining said arms in the positions in which they engage said fixed flanges.

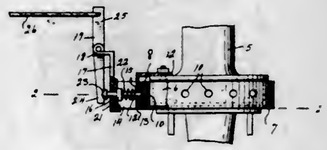
1,346,948. BATTERY-FILLING MACHINE. LOUIS A. FREEDMAN, New York, N. Y. Filed June 19, 1917. Serial No. 175,666. 17 Claims. (Cl. 226—99.)



1. In a machine of the class described, a battery shell holding receptacle, a pair of shafts, a pair of endless chains connecting said shafts to form a carrier for the battery shell receptacle between them, mechanism for intermittently rotating one of said shafts and means for driving said shaft rotating mechanism, means on the battery shell receptacle and means on the shaft driving mechanism for coincidently completing an electrical circuit to cause the filling mechanism to discharge solution into the battery shells.

1,346,949. HOLDER FOR MOTOR-VEHICLES. HARLON O. GIBSON and ELMER F. AMES, Wayland, N. Y.; said Gibson assignor to said Ames. Filed Nov. 8, 1919. Serial No. 336,666. 5 Claims. (Cl. 188—31.)

5. The combination with a vehicle rear axle housing and brake drum, a supplemental holding drum carried by and surrounding the periphery of the brake drum, a series of openings in the periphery of the supplemental drum, of a segmental bracket plate secured to the axle housing, one end of said plate extending in angular relation to the plate and parallel to the periphery of the holding drum, a supporting member having diverging arms, the ends of said arms being connected to the ends of the angular portion of the plate, a fulcrum secured to the intermediate



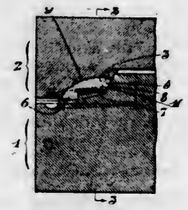
portion of the supporting member, said fulcrum extending beyond the bracket, a spring pressed dog slidably supported by said angular portion and supporting member, a lever carried by said fulcrum and adapted to engage the dog, and means connected to the other end of said lever for forcing said dog through an opening of the holding drum into engagement with the brake drum.

1,346,950. ASH-CONVEYER. ALEXANDER GIRTANNER, New York, N. Y. Filed Apr. 16, 1919. Serial No. 290,546. 2 Claims. (Cl. 137—75.)



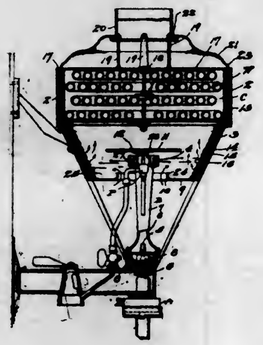
1. In an ash conveyer, the combination with a tubular member formed in sections, of a sectional lining covering the lower inner surface of said tubular member, one of the sections of said tubular member being provided with an opening for the insertion and removal of the lining, a plate closing said opening, and an ash inlet in said plate.

1,346,951. MOLD FOR FORMING ARTIFICIAL TEETH. THOMAS F. GLENN, Ardmore, Pa., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 1, 1917. Serial No. 183,840. 2 Claims. (Cl. 32—6.)



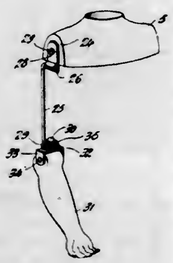
1. A tooth-forming mold having a mold cavity providing relatively angular surfaces forming the lingual face of the tooth and having a tongue or projection extending into said cavity, and having overhanging members inclined forwardly in parallel relation with one of said surfaces.

1,346,952. WATER-HEATER. NELSON G. GORMAU, New Orleans, La. Filed July 3, 1917. Serial No. 178,464. 14 Claims. (Cl. 263—9.)



1. In a water heater, a casing, a water container in the upper portion of the casing, said casing having a lower part fashioned with downwardly converging walls, and a burner within the lower part of said casing.

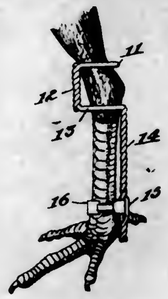
1,346,953. DOLL. EDWARD R. GOULD, New York, N. Y. Filed Apr. 12, 1916. Serial No. 90,732. 4 Claims. (Cl. 46—40.)



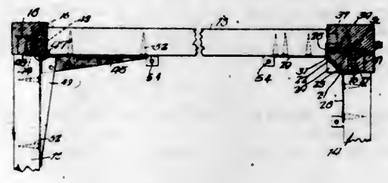
1. A device for connecting parts of dolls comprising a member having side portions carried by one of the doll parts and adapted to embrace the other doll part, and a strand passing through the second named part and said side portions, said strand having headed end portions engaging said side portions, and the intermediate portion of the strand being crimped to draw said side portions into frictional engagement with their respective contacting parts, substantially as described.

1,346,954. ANTISETTING DEVICE. ANDREW M. GRIFFEY, Meeker, Okla. Filed Apr. 17, 1920. Serial No. 374,638. 2 Claims. (Cl. 119—97.)

1. A device of the character described comprising a member formed from a single piece of wire having a loop adapted to encircle the leg immediately above the joint, a second loop spaced from said first mentioned loop and adapted to encircle the leg immediately below the joint, a connecting portion separating said loops and holding them in rigid and fixed relation, an arm bent at an angle to the second-mentioned loop and adapted to extend downwardly along the leg, and a fastening member on said arm to encircle the leg and hold the device in operative position.



1,346,955. FURNITURE. AUGUST J. GUSTAFSON, Maywood, Ill. Filed June 24, 1918. Serial No. 241,499. 10 Claims. (Cl. 45—48.)



1. An article of furniture comprising legs, rails connecting same and a corner fastener engaging the two rails connected to a leg and entering into a mortise and tenon engagement and having a part insertible laterally into the mortise.

1,346,956. TOY AEROPLANE. PERRY T. W. HALE, Portland, Conn., assignor to Martin C. Hillery, Hartford, Conn. Filed June 12, 1919. Serial No. 303,745. 1 Claim. (Cl. 244—23.)



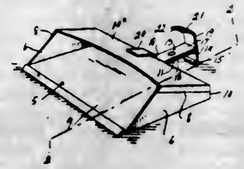
A toy aeroplane comprised of four similar rectangular frames, each frame being covered near its ends with fabric, detachable means securing three of said frames together edge to edge so as to form a hollow triangular body, and detachable means securing the fourth of said frames flatwise transversely across one end of one of the frames forming said body.

1,346,957. EXPANDER. ALBERT E. HANSEN, Elkhart, Ind. Filed Jan. 19, 1918. Serial No. 212,572. 1 Claim. (Cl. 153—80.)



The combination with an expander body having an elongated slot extending lengthwise of the barrel portion thereof, a screw extending through the bore of the body threaded at one end and having a tapering cone at the other and provided with a pin extending radially therefrom into and movable through the elongated slot in the body, a nut into which the screw is threaded swiveled in an open recess in the body, segments surrounding the cone and held in yielding contact therewith and provided with arrow-heads, the body having radial sockets to receive and guide said arrow-heads as the segments are radially expanded by the endwise movement of the screw and the cone therein, the body having externally threaded portion, and an adjusting nut adapted to be screwed upon said threads for adjustment for the various lengths of couplings.

1,346,958. DUSTPAN. CLARENCE ATWOOD HAZEN, Talent, Oreg. Filed Apr. 7, 1920. Serial No. 371,961. 1 Claim. (Cl. 65—20.)



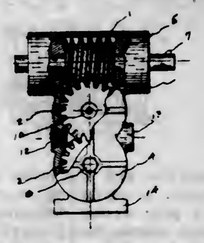
A dust pan having a bottom, two sides, a back and a top, a resilient arm secured at one end portion to the bottom of the pan and terminating adjacent the front portion of said pan, the other end portion extending beyond the back of the pan in the plane of the first mentioned end portion and having its extremity extending downwardly in right angular relation to the arm to provide a foot, and a resilient U-shape member secured to the upper surface of the second mentioned extended end portion of the arm, one arm of said U-shape member being disposed in engagement with a portion of the back of the pan and extending toward the other arm, the end of the first mentioned arm being extended in right angular relation to said arm into engagement with the top of the pan and coöperating with the supporting arm through the medium of the back of the pan to provide a brace, the second mentioned arm of the U-shape member coinciding with the foot of the supporting arm, said second mentioned arm being curved toward the first mentioned arm and extending beyond the top of the pan, said second mentioned arm providing a handle and a supporting claw, and coöperating with the first mentioned arm to provide a foot-hold.

1,346,959. REFRACTORY COMPOSITION AND PROCESS OF MAKING SAME. ARTHUR T. HINCKLEY, Niagara Falls, N. Y., assignor to National Carbon Company, Inc., a Corporation of New York. Filed Oct. 9, 1919. Serial No. 329,605. 3 Claims. (Cl. 106—11.)

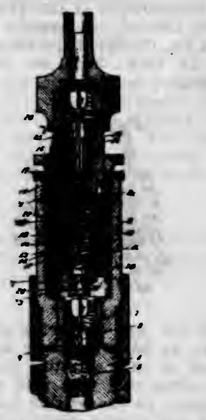
1. A refractory composition comprising fully shrunk, graded carbon particles in mutual contact, and a ceramic bonding material proportioned substantially to fill the interstitial spaces.

1,346,960. GEAR-PUMP. BENJAMIN W. HURD, San Francisco, Calif. Filed Sept. 24, 1919. Serial No. 325,874. 3 Claims. (Cl. 103—44.)

1. An internally reduced drive gear pump having a liquid tight case with an inlet and an outlet, said case inclosing a pair of meshing helical gears and a worm designed to rotate in said case; the worm shaft axis to be at right angle to the axis of the gears and to mesh with and drive one of said helical gears for the purpose of reducing the speed and increasing the power.

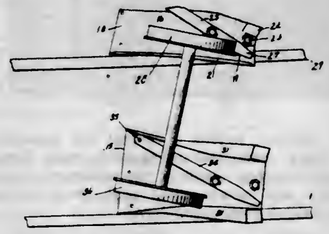


1,346,961. INDICATOR FOR PNEUMATIC TIRES. JOHN L. JACKSON, River Forest, Ill. Filed Feb. 13, 1920. Serial No. 358,519. 10 Claims. (Cl. 116—34.)



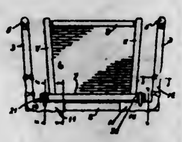
1. An indicator for pneumatic tires comprising a cylinder adapted to be connected with the air tube of the tire, a piston in said cylinder normally retracted and adapted to be projected by tire pressure, and an annular seat in said cylinder adapted to coöperate with said piston when the same is projected, to prevent the escape of air.

1,346,962. CAR-REPLACER. JOHN JACOBSON, Rockford, Ill. Filed Oct. 7, 1919. Serial No. 329,035. 4 Claims. (Cl. 104—269.)



1. A car replacer comprising a block having an inclined top, means for holding said block in juxtaposition to a rail, and a removable block for supporting the high end of the inclined block, whereby to be substituted by a supporting block of different size to properly accommodate the inclined block to the size and shape of the rail.

1,346,962. INFANT'S CARRIAGE. GUSTAF O. JOHNSON, Elkhart, Ind. Filed May 15, 1918. Serial No. 234,662. 4 Claims. (Cl. 296—30.)



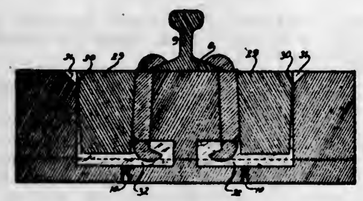
1. In combination with the frame and swinging seat back of a vehicle, a reinforcing member having a base portion and a post section extending angularly therefrom, said base portion being adapted to be fastened to a transverse member of said frame and said post section being adapted to be fastened to an upright member connected with said frame, and a hinge member projecting from one portion of said reinforcing member and adapted to serve as a bearing member for said swinging seat back.

1,346,964. AUTOMOBILE SPARE-TIRE LOCK. COLVIN L. JOHNSON, Chicago, Ill., assignor to Johnson Automobile Lock Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 27, 1919. Serial No. 285,418. 4 Claims. (Cl. 224—29.)



1. A spare tire lock embracing slidably interfitting clamping jaws, an adjusting screw engaging said jaws, means pivoted on said adjusting screw for operating the same to adjust said jaws with respect to one another, and means on one of said jaws adapted to engage and lock said pivoted means to hold the adjusting screw locked gainst movement.

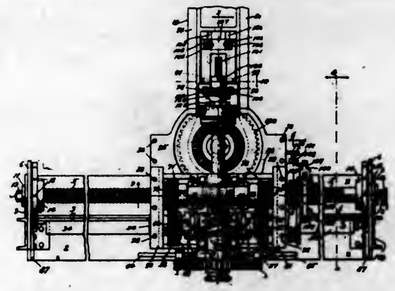
1,346,965. RAILWAY-RAIL FASTENER. EDWARD A. KEHN. Denver, Colo. Filed Feb. 8, 1919. Serial No. 275,735. 7 Claims. (Cl. 238—353.)



4. A tie member, having a central rail base-engaging part and being chambered on opposite sides thereof to receive rail-fastening devices, the chambered portions adjacent the rail base-engaging part being reduced in width to form bottom shoulders.

1,346,966. COAL-MINING MACHINE. SEWARD N. MIGHELL, Chicago, Ill. Filed July 10, 1916. Serial No. 108,351. 7 Claims. (Cl. 262—30.)

1. In a mining machine, the combination of a portable track, a main frame supported upon and movable longitudinally of the track, a cutter bar mounted on the main frame, a cutting chain supported by the cutter bar, a non-rotative main feed screw mounted in fixed relation to the track, threaded nut mechanism rotatively mounted on the main frame and in threaded engagement with said main feed screw, a main drive shaft rotatively mounted in the main frame and adapted to be operatively connected with a source of power and with said cutting chain, for driving the latter, means for operatively connecting said main drive shaft with said threaded nut mechanism, for moving the main frame with respect to the main feed screw and track reversible gear mechanism upon the main frame and connected with the main drive shaft and adapted to operatively connect said shaft with the source of power for reversing the direction of rotation of the main drive shaft, and means for changing the direction of rotation of said threaded nut mechanism with respect to the direction of rotation of the main drive shaft.



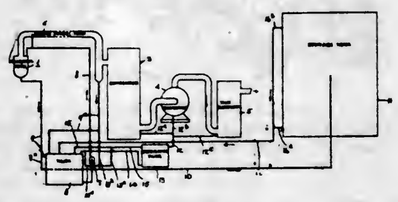
2. In a mining machine, the combination of a portable track, a main frame supported upon and movable longitudinally of the track, a cutter bar pivotally mounted on the main frame, a cutting chain supported by the cutter bar, means for operating the cutter bar upon its axis, a non-rotative main feed screw mounted in fixed relation to the track, threaded nut mechanism mounted on the main frame and in threaded engagement with said main feed screw, a main drive shaft rotatively mounted in the main frame and operatively connected with a source of power and with said cutting chain mechanism for driving the same, means for operatively connecting said main drive shaft with said threaded nut mechanism, for moving the main frame with respect to the main feed screw and track, cutter bar operating means comprising pawl and ratchet mechanism operatively connected with said last-mentioned connecting means and with the cutter bar, for operating the same, and means for changing the direction of rotation of said threaded nut mechanism with respect to the direction of rotation of the main drive shaft.

3. In a mining machine, the combination of a portable track, a main frame supported in movable relation to the track, a cutter bar mounted on the main frame, a cutting chain supported by the cutter bar, a non-rotative main feed screw mounted in fixed relation to the track, threaded nut mechanism rotatively mounted on the main frame and in threaded engagement with said main feed screw, a main drive shaft rotatively mounted in the main frame and operatively connected with a source of power and with said cutting chain, for driving the same, means for operatively connecting said main drive shaft with said threaded nut mechanism, cutter bar operating means comprising pawl and ratchet mechanism operatively connected with said last-mentioned connecting means and with the cutter bar, for operating the same, means for reversing the direction of rotation of the main drive shaft, and means for changing the direction of rotation of said threaded nut mechanism upon the main feed screw.

4. In a mining machine, the combination of a portable track, a main frame supported in movable relation to the track, a cutter bar mounted on the main frame, a cutting chain supported by the cutter bar, a non-rotative main feed screw mounted in fixed relation to the track, threaded nut mechanism rotatively mounted on the main frame and in threaded engagement with said main feed screw, a main drive shaft rotatively mounted in the main frame and operatively connected with a source of power and with said cutting chain, for driving the same, means for operatively connecting said main drive shaft with said threaded nut mechanism, cutter bar operating means comprising pawl and ratchet mechanism operatively connected with said last-mentioned connecting means and with the cutter bar, for operating the same, means for disconnecting the main drive shaft from the cutting chain, and means for changing the direction of rotation of said threaded nut mechanism upon the main feed screw.

5. In a mining machine, the combination of a track member, a main frame mounted in movable relation to the track member, a cutter bar supported by the main frame, cutting chain mechanism upon the cutter bar, a main driving shaft rotatively mounted in the main frame and operatively connected with a source of power, a threaded main feed screw fixed to the track member, threaded nut mechanism mounted on the main frame and in threaded engagement with said main feed screw, means for operatively connecting the threaded nut mechanism with the main driving shaft, for enabling the main frame and the track member to be moved relatively to each other, cutter bar operating means comprising pawl and ratchet mechanism operatively connected with said last-mentioned connecting means and with the cutter bar, for operating the same, means for operatively connecting the cutting chain mechanism with the main driving shaft, and means for reversing the direction of rotation of the nut mechanism, to change the direction of movement of the main frame and track relatively to each other.

1,346,967. METHOD OF AND APPARATUS FOR RECOVERING AMMONIUM CHLORID. MAX E. MUELLER, Youngstown, Ohio. Filed July 21, 1919. Serial No. 312,314. 7 Claims. (Cl. 23—21.)

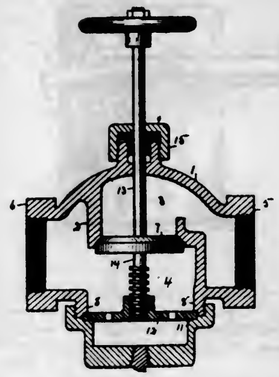


1. In a method of recovering ammonium chlorid and other fixed ammonia salts resulting from the carbonization of coal, the steps which consist in repeatedly passing a limited body of aqueous and tarry liquors in contact with the gaseous products of such carbonization, prior to the cooling thereof and extraction of tar therefrom, the temperature being kept above that at which much water vapor condenses from such gas, and replacing such liquors gradually with similar fresh liquors from the cooling and tar-extraction stages.

3. In apparatus for recovering values from coal gases, the combination with the gas main leading to a condenser and tar-extractor, of means adapted to circulate a mixture of aqueous and tarry liquors through said main, a storage and separating tank, and connections for diverting a portion of such liquors from said circulating means to said tank.

1,346,968. VALVE. DANIEL R. MURPHY, Uniontown, Pa. Filed Aug. 16, 1919. Serial No. 317,932. 6 Claims. (Cl. 251—43.)

5. A valve having in combination a case or shell having a diaphragm or partition having an opening therethrough, the case or shell having ports connected respectively with the chambers on opposite sides of the diaphragm, a valve controlling the flow of fluid through the diaphragm, and having a main stem and a threaded auxiliary stem, the case or shell having an opening in line with the opening



through the diaphragm, said opening being slightly larger than the valve, a disk having a threaded opening therethrough for the reception of the auxiliary stem and arranged in a seat formed in the wall of the opening in the shell and a cap for said opening and adapted to clamp the disk on its seat and hermetically close said opening.

1,346,969. ADVERTISING-FRAME. FRANK NEWHOUSE, Denver, Colo. Filed Feb. 10, 1919. Serial No. 276,061. 2 Claims. (Cl. 40—146.)

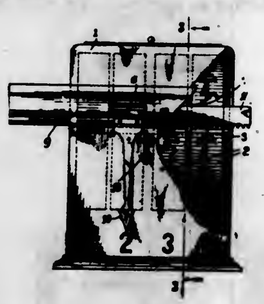


1. An advertising card-holding device, comprising a base, a frame member extending upwardly therefrom and having a front opening for exposing the matter on the card, the frame being cut away in the rear and carrying a glass plate, there being a space in the cut-away part of the frame to receive the card in the rear of the plate, a stationary card-retaining strip positioned across the bottom of the frame to provide a pocket between the strip and the glass plate for one end of the card, and a movable retaining member at the top of the frame to hold the other end of the card.

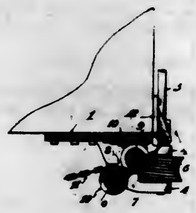
1,346,970. TICKET-ISSUING DEVICE. JOHN F. OHMER and JOHN F. OHMER, Jr., Dayton, Ohio, assignors to Ohmer Fare Register Company, Dayton, Ohio, a Corporation of New York. Filed Mar. 22, 1919. Serial No. 284,426. 19 Claims. (Cl. 211—33.)

12. In a device of the character described, a casing, means for supporting within said casing a plurality of series of tickets, the tickets of each series being different from the tickets of the other series, a device to control the withdrawal of tickets from the several series and comprising a housing, having an opening along its inner edge

to receive tickets of the several series and to permit said housing to move relatively to said tickets, said housing projecting beyond the front wall of said casing and having a discharge opening therein which may be moved successively into alinement with the several series of tickets, and having its upper and lower walls cut away adjacent to said opening to permit the ticket to project therefrom in a position to be grasped by the operator.

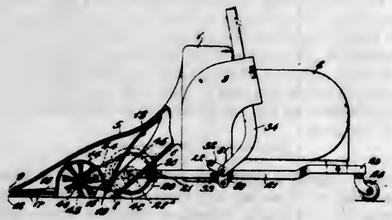


1,346,971. CAR-BRAKE. BRYAN J. O'NEILL, Peoria, Ill. Filed Oct. 28, 1918. Serial No. 259,912. 3 Claims. (Cl. 74—120.)



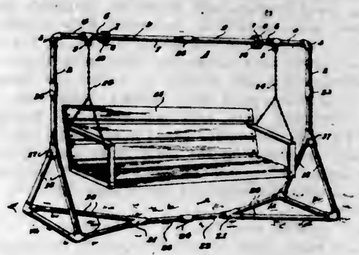
1. A brake mechanism for railway cars including in its construction, in combination, an arm mounted between its ends adapted to rock and having an extension each side of its axis of movement, a brake-chain adapted for attachment at one end to the brake beam of the car, its other end lying between the said extensions of the arm and attached to a fixed portion of the car.

1,346,972. SUCTION-SWEEPER. WILLIAM V. ORR, Cleveland, Ohio. Filed Jan. 17, 1917. Serial No. 142,837. 8 Claims. (Cl. 15—60.)



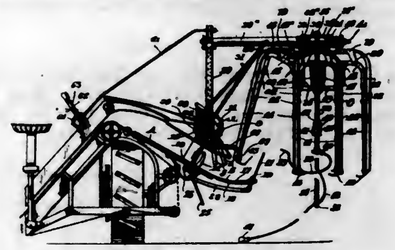
2. In a suction cleaner, a frame having floor-engaging carrying wheels, a casing supported by said frame and having a collecting nozzle formed with a downwardly facing inlet mouth, and an operating handle, said handle being connected to said casing and frame by movable means which upon forward movement of said handle relatively to said casing and frame will raise said casing.

1,346,973. SWING. PATRICK W. PADDEN, Maumee, Ohio. Filed Apr. 9, 1920. Serial No. 372,439. 3 Claims. (Cl. 155—58.)



1. A swing supporting frame comprising a structure composed of connected pipe sections and formed to include a relatively wide base portion and an upper horizontal supporting section, a spring structure mounted within said horizontal section, cables connected with said spring structure extending outwardly and downwardly from said section, and a swing structure connected with the lower ends of said cables.

1,346,974. SHEAF-SHOCKER. WILLIAM HUMPHREY PERRIN, New Liskeard, Ontario, Canada, assignor to Perrin Shocker Manufacturing Company, Limited, New Liskeard, Ontario, Canada. Filed Feb. 14, 1917. Serial No. 148,603. 14 Claims. (Cl. 56—412.)



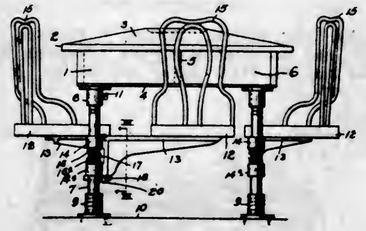
1. In a sheaf shocker and in combination a sheaf supporting mechanism, said sheaf supporting mechanism comprising a plurality of hook members arranged about a center shaft and rotatable about said shaft and abutment means against which the butts of the sheaves impact when carried by the hook members, said abutment means having a free space above it to permit the heads of the sheaves to overhang it in up-ending said sheaves, substantially as described.

1,346,975. NUT-LOCK. ALECK PETRIW and ALECK PETLAK, Goodeve, Saskatchewan, Canada. Filed Mar. 20, 1920. Serial No. 367,336. 1 Claim. (Cl. 151—6.)



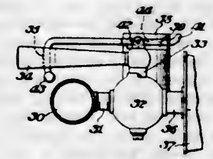
The combination with a bolt having a threaded shank provided with longitudinal peripheral grooves, of a nut having a socket extending inwardly from one of its side faces and provided with a slot centrally of the socket providing communication between the socket and the bore of the nut, a transverse partition secured centrally within said socket and having a central slot, a cross key slidable in the slots of the nut and the partition and having a cross head upon its outer end outwardly of the patrition and arranged at all times within said socket, and a spring encircling said cross key and normally pressing the same inwardly for seating reception within one of the longitudinal grooves of the bolt shank when the latter is coincident with the slot of the nut, a portion of the cross head of said cross key being maintained slightly spaced from said partition so as to permit the insertion of the end of a nail or like instrument thereunder for prying the cross key outwardly so as to release the inner end of the latter from the longitudinal groove of the bolt shank, the wall of said socket being provided with a depression for reception of one end of the cross head of the cross key when the latter is pried outwardly so as to assist in maintaining the same in released position.

1,346,976. SCHOOL-DESK. GEORGE L. RANKIN, Munhall, Pa. Filed Aug. 18, 1919. Serial No. 318,071. 3 Claims. (Cl. 45—31.)



1. The combination of a school desk having a plurality of sides and a top affording a working face from each of said sides, a leg including a vertically adjustable section at each corner of the desk, and chairs pivoted on the vertically adjustable leg sections, whereby the adjustment of the leg sections effects a simultaneous adjustment of the elevation of both desk and chairs.

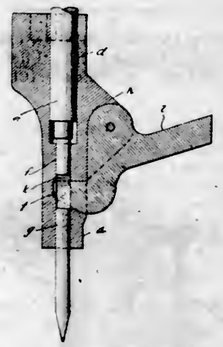
1,346,977. FLUID-COCK. JOHN REPETTO, Philadelphia, Pa. Filed Aug. 28, 1918. Serial No. 251,782. 3 Claims. (Cl. 251—165.)



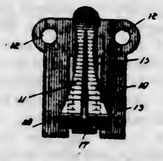
1. A device of the character described comprising, a casing, a valve therein and having a stem, a stationary plate arranged near the casing and provided with a slot, said slot having its outer wall provided with notches, and a lever pivotally connected with the stem and having a portion thereof adapted for movement away from the casing to engage a selected notch in said outer wall.

1,346,978. TOOL-HOLDER. JOSHUA J. RILEY and ELMER E. BLACKSTONE, Pontiac, Mich. Filed Oct. 27, 1919. Serial No. 333,835. 3 Claims. (Cl. 121—32.)

1. A tool holder for the purpose specified, having in combination, a barrel adapted to guide a tool, a tool reciprocatable in said barrel and provided with a recess at its sides, a tool retainer in the form of a bell crank pivoted to the barrel and having a portion at one end adapted to engage loosely in the recess of the tool but allow the tool to reciprocate, the other end of the bell crank forming a handle, pressure against which serves both to hold the tool to the work and the fork in engagement with the tool recess.

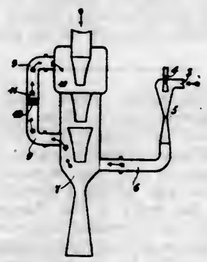


1,346,979. BUCKLE. EUGENE W. RUTHERFORD, New Haven, Conn., assignor to The Shoe Hardware Company, a Corporation of Connecticut. Filed Jan. 10, 1919, Serial No. 270,461. Renewed June 5, 1920. Serial No. 386,925. 4 Claims. (Cl. 24—69.)



3. A buckle comprising a plate with spaced flat side members, an intermediate resilient member having a free end which is bent into substantially semi-circular form, and a manipulatable tongue provided transversely with a closed slot adjacent one end which is adapted to receive the bent free end of the resilient member, said tongue having a straight edge adjacent and parallel with the slot which is adapted to coöperate with the flat side members of the plate to retain the tongue in either a closed or an open position.

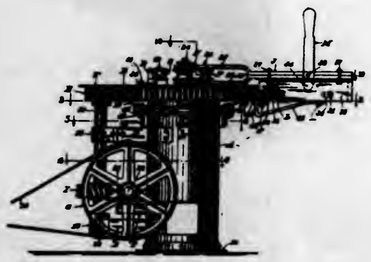
1,346,980. APPARATUS FOR EXHAUSTING AIR AND NON-CONDENSABLE GASES. ARTHUR EDWIN LEIGH SCANES, Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited, a Company organized under the laws of Great Britain. Filed Oct. 10, 1916. Serial No. 124,854. 6 Claims. (Cl. 230—13.)



1. In an air and non-condensable gas exhaust apparatus, a multi-stage water ejector, a steam ejector con-

nected for discharge to a stage of said water ejector other than the initial stage, and a passage for delivering fluid from said stage around the initial stage to the inlet thereof.

1,346,981. PIPE AND ROD BENDING MACHINE. BERNHARDT SCHENK, Chicago, Ill. Filed Dec. 29, 1919. Serial No. 348,005. 5 Claims. (Cl. 153—45.)



1. In a machine of the nature specified, the combination of a support, a spur gear wheel mounted on said support, said spur gear wheel consisting of an annular band, said band having on its external periphery gear teeth, said band having on its inner periphery an annular flange, a multiplicity of brackets extending from said support, studs extending upwardly from said brackets, and rollers mounted on said studs, said rollers having peripheral grooves engaging the inner annular flange of said spur gear wheel, mechanism for imparting rotative movement to said spur gear wheel, pipe-bending mechanism mounted above said spur gear wheel, said bending mechanism including an arm, manually operating means on said arm for connecting said arm to said spur gear wheel and automatically operating mechanism for disconnecting said arm from said rotating spur gear wheel.

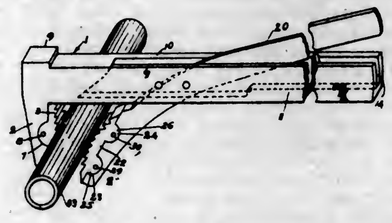
1,346,982. ATTACHMENT FOR FOUNTAIN-PENS. CARL SCHWARTZ, Sheboygan Falls, Wis. Filed Mar. 15, 1920. Serial No. 365,832. 7 Claims. (Cl. 120—84.)



1. In combination with a writing device, having a pair of longitudinally extending grooves, of a slidable retaining clip, and groove engaging fingers extending from the clip and slidably disposed in the grooves.

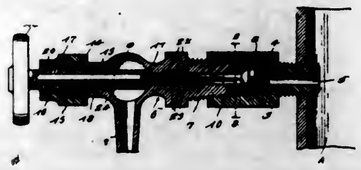
1,346,983. ADJUSTABLE PIPE-WRENCH. JOSEPH SHAFFER, McKittrick, Calif. Filed Dec. 30, 1918. Serial No. 268,972. 1 Claim. (Cl. 81—79.)

An adjustable pipe wrench comprising, an L-shaped main member with its long arm or handle part of channel form, the said arm having a plurality of transverse perforations in the walls of the channel, the perforations in one wall being threaded and co-axial with those of the other wall; a second rigid handle part having a straight portion to lie flat in the channel of the main member and being bodily curved outward and toward the short arm of the main member and coöperating therewith to form pincer jaws; the said second member having a pivot hole; and a pivot screw severally adjustable into any of the alined perforations in the main handle forming part and passed through the perforation in the curved handle member whereby the straight portions of



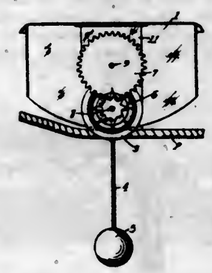
the handle members can be collapsed together in the unobstructed position of the jaws, said pivot providing for relative longitudinal adjustment of the handle members and separation of the jaws.

1,346,984. GAGE-COCK. EDWARD J. SHEARER, Colton, Calif., and MARSHALL M. OWENS, Lordsburg, N. Mex. Filed July 18, 1919. Serial No. 311,710. 1 Claim. (Cl. 277—27.)



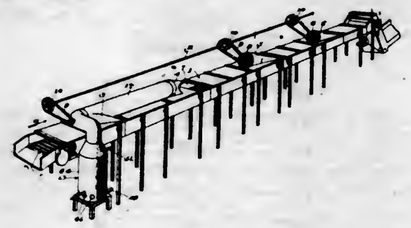
A gage cock comprising a boiler connection having an internally threaded chamber therein, a one-piece valve body including an externally threaded inner end and an externally threaded outer end, said inner end being fitted in said chamber and combining therewith to form a valve-housing, said valve body also including a main valve seat, a supplemetal valve seat and a passage, this passage connecting the main valve seat with the supplemental valve seat, said valve body also including a water outlet and a valve bearing in communication with said main valve seat, a main valve in said valve bearing, this main valve being tubular and cylindrical from its inner end to a portion adjacent to its outer end, this outer end portion having a handle thereon, and an externally screw threaded portion between said handle and the cylindrical portion of the main valve, the hollow of this tubular valve terminating in an abutment, a nut in threaded engagement with the outer end of said one piece valve body, said main valve having screw threaded engagement with said nut and thereby being longitudinally movable to and from said main valve seat, and a one-piece supplemental valve including a head and a stem, said stem being straight and having all its parts of substantially equal lateral extent, this stem extending through said passage and through the hollow of said main valve and normally abutting against said abutment so that the latter normally holds said supplemental valve out of the supplemental valve-seat, but permits the supplemental valve to close when said main valve is opened a predetermined extent, said valve stem being longitudinally slidable in the tubular portion of said main valve to permit the latter to move longitudinally from its closing position after the said supplemental valve has closed and ceased to move.

1,346,985. MECHANICAL VEHICLE. HEIJIRO SONODA, Yakima, Wash. Filed Sept. 24, 1919. Serial No. 325,861. 1 Claim. (Cl. 46—48.)



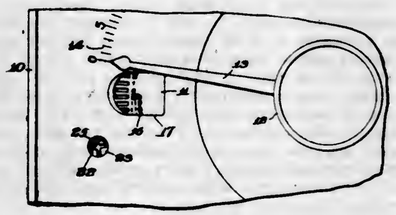
A toy vehicle comprising a body member and a single roller for engagement with an exterior surface, said body wholly mounted above said exterior surface, and weights attached to said body straddling said surface below said surface for balancing said car.

1,346,986. APPARATUS FOR DRYING FRUIT. GEORGE T. STAMM, Upland, Calif., assignor to Fred Stebler, Riverside, Calif. Filed Nov. 29, 1915, Serial No. 63,934. Renewed Sept. 29, 1919. Serial No. 327,258. 11 Claims. (Cl. 34—12.)



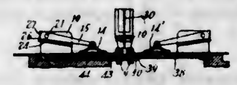
7. An apparatus for treating citrus fruit comprising a conduit, a fire box, a fuel-burner in the fire box, means to discharge the hot products of combustion from the fire box into the conduit, and means to convey fruit through the conduit beneath the discharge of the hot products of combustion to thereby dry and color the peel of the fruit.

1,346,987. SCORE-KEEPING APPARATUS. EDWARD STEIGERWALD, Philadelphia, Pa. Filed Feb. 2, 1920. Serial No. 355,717. 3 Claims. (Cl. 235—90.)



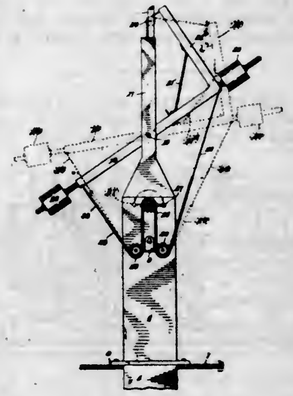
1. Apparatus of the character described including a supporting structure providing a slideway; a resilient slide in frictional engagement with said slideway; and indicating means having a portion for engaging and moving said slide lengthwise of said recess and capable of compressing and thereby passing said slide, said slide having plus and minus symbols thereon; substantially as described.

1,346,988. WORK HOLDER AND GUIDE FOR SEWING-MACHINES. ABRAHAM STEIN, Boston, Mass. Filed Feb. 23, 1918. Serial No. 218,684. 8 Claims. (Cl. 112—136.)



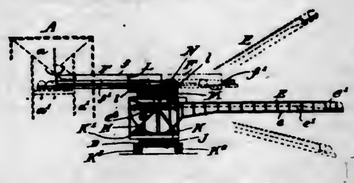
1. A sewing machine having, in combination, a work support having a groove formed transversely thereof, work feeding means adjacent to said groove, a slide mounted in said groove, adapted to be moved longitudinally thereof by said work feeding means, and a clamp member mounted upon said slide adapted to engage the edge of the work being stitched and hold said work on said slide.

1,346,989. PUMP. FRANK STOKLOSA, Chicago, Ill. Filed Jan. 21, 1920. Serial No. 353,000. 1 Claim. (Cl. 103—62.)



A lift pump of the type described comprising a pump cylinder, a piston reciprocable within said cylinder and means for raising and lowering said piston, said means including a lever beam pivoted above the pump cylinder, an angle extension carried by one end of the lever beam, a piston rod carried by the piston, a flexible connection between the lever extension and piston rod, a plurality of sprocket wheels rotatably supported upon the pump cylinder, a sprocket chain passing over said sprocket wheels and connected to said lever and means for operating the wheels to oscillate the lever beam to raise and lower the piston in the cylinder.

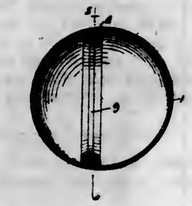
1,346,990. CONVEYING APPARATUS. FRANCIS LEE STUART, New York, N. Y. Filed Aug. 15, 1919. Serial No. 317,680. 4 Claims. (Cl. 198—3.)



3. The combination with a series of bins, of a truck mounted to move from bin to bin, a boom conveyor mounted on the truck to turn about both vertical and

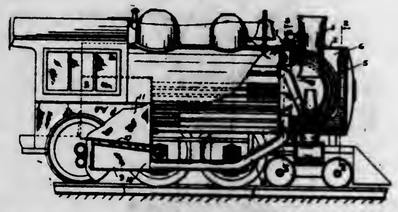
horizontal axes and discharging at its outer end, an endwise adjustable conveyer, a frame in which it is mounted and which is supported by the truck above the boom conveyer, said endwise adjustable conveyer being constructed to deliver to the boom conveyer in a fixed vertical plane relatively to the supporting truck substantially as described.

1,346,991. RUBBER BALL. GEORGE MICKLE TATUM, Media, Pa. Filed Jan. 22, 1920. Serial No. 353,173. 2 Claims. (Cl. 46—4.)



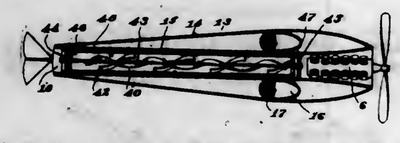
1. An elastic ball of the class described having a metallic strip situated interiorly thereof and means for holding said strip to one side of the center of said ball.

1,346,992. AIR-PREHEATER FOR FURNACES. MAX M. TENESCH, Kelso, Calif. Filed Aug. 28, 1919. Serial No. 320,464. 1 Claim. (Cl. 110—57.)



In combination with a steam locomotive, a cold air collecting box in the upper part of the smoke box, a hot air collecting box in the lower part of the smoke box, a plurality of spaced tubes connecting said cold air collecting box and said hot air collecting box, said tubes curving forwardly and to the sides of the stack and the exhaust nozzle out of the path of the smoke from the fire box, and the steam from the exhaust, to the stack.

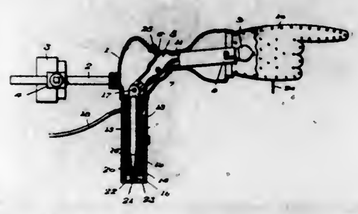
1,346,993. TUBULAR FUSELAGE. JOHN TALIAFERRO THOMPSON, Newport, Ky., assignor of one-half to Thomas F. Ryan, New York, N. Y. Filed June 30, 1919. Serial No. 307,740. 11 Claims. (Cl. 244—25.)



1. In an air-craft, a fuselage comprising an outer shell, and an inner shell, said shells being so arranged as to provide a longitudinal air-duct through said fuselage, and a cockpit disposed in the space between said shells.

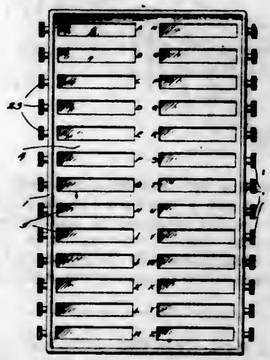
1,346,994. SIGNAL. FRANK HENRY THONE, Bingham Canyon, Utah. Filed Mar. 3, 1919. Serial No. 280,291. 1 Claim. (Cl. 177—329.)

A signal device embodying a casing having a sleeve depending therefrom, a lever pivoted within the casing and having a signal arm, said signal arm being adapted to swing downwardly adjacent to said sleeve and having a keeper to project under the lower end of the sleeve when the signal arm is adjacent to said sleeve, a solenoid coil on the sleeve, a tubular casing surrounding said coil and sleeve, a latch pivoted to and extending across the lower end of said sleeve within the tubular



casing and having a portion to move downwardly and drop into engagement with said keeper, and a pair of cores slidable within the opposite ends of said sleeve, the upper core being connected to said lever, and the lower core engaging said latch so that when the cores move toward one another in the sleeve they will raise and withdraw the latch from said keeper and swing the lever to raise the signal arm away from said sleeve.

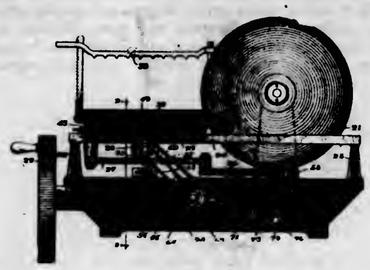
1,346,995. DIRECTORY. WARD JOHN TOLAND, Dannemora, N. Y. Filed Dec. 5, 1918. Serial No. 265,375. 2 Claims. (Cl. 40—86.)



1. In a device of the class described, the combination of a casing having guide strips therein, independent indicating units insertible in said casing and comprising plates connected by rods, shafts carred by said plates and having rollers thereon, sleeve rollers carried by a plurality of said rods, a belt connected to said rollers and passing around said sleeve, rollers, said plates being engaged by said strips for holding said units against accidental shifting although permitting the same to be removed from the casing when necessary, and means insertible into said casing for engagement with said shafts and turning the same whereby said rollers may be rotated for moving said belt.

1,346,996. SLICING-MACHINE. CORNELIS F. M. VAN BERKEL, Laporte, Ind., assignor to U. S. Slicing Machine Company, Laporte, Ind., a Corporation of Indiana. Filed July 12, 1917. Serial No. 180,051. 26 Claims. (Cl. 17—24.)

4. In a slicing machine, a table, a support for material to be sliced movably mounted on said table, means for feeding said support relative to said table, and means for automatically disconnecting said support from said feeding means when said support reaches a given posi-



tion and for again connecting said support automatically with said feeding means when said feeding means is operated in a reverse direction.

1,346,997. FEED-SCREW. CORNELIS F. M. VAN BERKEL, Laporte Ind., assignor to U. S. Slicing Machine Company, Laporte, Ind., a Corporation of Indiana. Filed Nov. 19, 1917. Serial No. 202,684. 13 Claims. (Cl. 74—40.)



1. In a combination, a screw, and a toothed member for engaging the threads of said screw, said toothed member having an inclined face arranged to coöperate with the threads of said screw to force said member out of mesh with said threads and having other teeth for driving engagement with said screw.

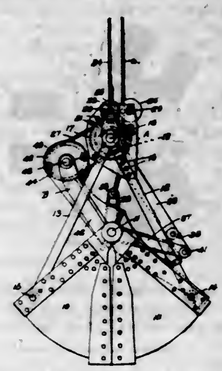
1,346,998. DENTAL APPLIANCE. THOMAS HERBERT VEALE, Camp Devens, Mass. Filed May 15, 1920. Serial No. 381,689. 5 Claims. (Cl. 32—6.)



1. In an impression device, inner and outer impression trays, the former being insertible and removably supported within the latter, said trays having sides and anterior flanges, means at the posterior portion of both trays for supporting the inner tray, means adjacent the anterior flanges to further support the inner tray, the sides of both trays and supporting means being in contact, and a water jacket between the bottoms of both trays, said jacket being made water-tight by introduction of impression material in the inner tray.

1,346,999. EXCAVATING-BUCKET. WILLIAM M. VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed Oct. 19, 1918. Serial No. 258,843. 14 Claims. (Cl. 37—30.)

5. In a bucket, the combination of a pair of pivoted scoops provided with supporting corner members, bucket closing means including a closing line and a pair of sheave members, an auxiliary lever provided with a stop bar member, and a bucket head for the scoops comprising a block provided with a head pin common to and posi-



tioned to receive all of said members, part of said members rigidly secured to said pin and another part thereof adapted to turn on said pin.

1,347,000. APPARATUS AND ART FOR HANDLING COAL AND THE LIKE. EDWIN C. WASHBURN, Englewood, N. J., assignor of one-third to Robert S. Blair, South Orange, N. J. Filed July 18, 1918. Serial No. 245,577. 12 Claims. (Cl. 34—47.)



1. In thawing apparatus for coal and the like, in combination, a track portion, means inclosing the space about said track portion and adapted to retain heated air therein by its buoyancy, means adapted to heat said space, and a track portion inclined downwardly under said inclosing means and thence inclined upwardly to join said first track portion.

1,347,001. MACHINE FOR MAKING HAT-LININGS. GEORGE W. WEISS, New York, N. Y. Filed Dec. 31, 1917. Serial No. 209,724. 20 Claims. (Cl. 112—14.)

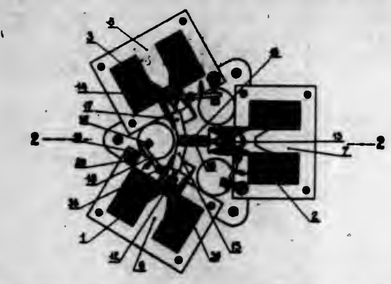


10. In a machine for making hat linings, the combination with a device for producing oval rotation, means for supporting the lining on said oval producing device, slides for changing the size and shape of the oval, controlling means acting simultaneously on the slides, and means for locking said controlling means, substantially as shown and described.

1,347,002. ELECTRIC IMPULSION-MOTOR. MARIE EMILE ALFRED BAULE, Lyon, France. Filed May 1, 1919. Serial No. 294,060. 4 Claims. (Cl. 172—126.)

1. In an electric motor, comprising a crank shaft, a plurality of electromagnets arranged circumferentially about the crank shaft, the combination with each of the electromagnets of a core placed in each electromagnet, a resilient rod connecting each core to the crankshaft and normally holding said core in retracting position, a re-

sistance in series with the coil of each electromagnet for reducing the current through said electromagnet, a switch



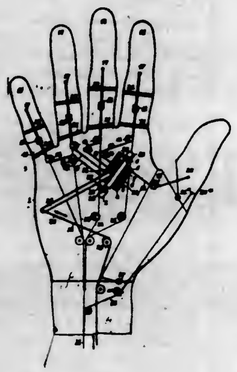
arranged so as to normally short circuit each resistance and a device to automatically open each switch when the corresponding core moves out of its retracted position.

1,347,003. BLADE FOR FLUID-PRESSURE TURBINES. KARL BAUMANN, Urmston, and HENRY LEWIS GUY and JOHN FREDERICK FRANKLAND WINNING, Manchester, England, assignors to The British Westinghouse Electric and Manufacturing Company, Limited, a Corporation of Great Britain. Filed Mar. 19, 1919. Serial No. 283,641. 3 Claims. (Cl. 253—78.)



1. A turbine blade having its major portion formed of a single thickness of sheet metal and its inlet edge formed of two thicknesses of metal.

1,347,004. ARTIFICIAL HAND. FRIEDRICH CONRAD BECK, Seuzach, near Winterthur, Switzerland. Filed Apr. 16, 1918. Serial No. 228,833. 4 Claims. (Cl. 3—12.)



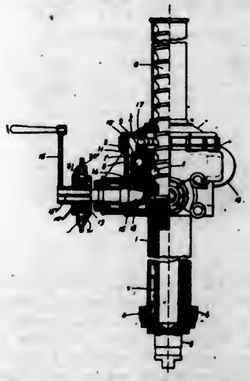
1. In an artificial hand, the combination with joined fingers thereof, of a series of pawls and ratchets located centrally of the artificial hand, connections attached to said fingers and to said pawls and ratchets, and a tensile connection attached to said pawls and ratchets, whereby the patient by energising said tensile connection, is able, by operating said pawls and ratchets to cause said fingers to hold the grasped article with an optional gripping pressure that is independent of the size or shape of the article to be held.

1,347,005. DEVICE FOR THE PREVENTION OF POCKET-PICKING. FRANCESCO BINI, Milan, Italy. Filed July 11, 1919. Serial No. 310,119. 2 Claims. (Cl. 116—84.)



1. In a protection device of the class described, an alarm carrying device comprising a tubular member adapted to carry a charge of detonating material; a detonator extending into said tubular member; a plug in one end of said tubular member for supporting said detonator; a second tubular member secured to said plug and into which the detonator extends; a latch in said second tubular member adapted to engage the end of the detonator and hold the same cocked; and a trigger in said second tubular member and extending to the outside thereof adapted to release said latch to permit the detonator to strike the detonating charge under the influence of a tensioned spring, when the trigger is operated.

1,347,006. MECHANICAL SCREW-JACK. ANDRÉ BOAS, Paris, France, assignor to Societe Anonyme Des Engrenages Citroen, Paris, France, a Corporation of France. Filed Sept. 23, 1918. Serial No. 255,342. 2 Claims. (Cl. 254—103.)



1. A screw jack, comprising a screw, a coöperating rotary nut, an actuating mechanism, a casing therefor, said nut being anti-frictionally supported within said casing and having a passageway extending from the threads of the screw through to the peripheral face thereof, and a cylindrical member inclosing said nut, and forming the outer wall of the passage way and a manually actuated brake operating on said member.

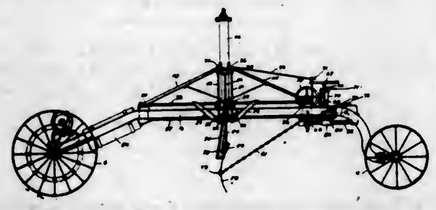
1,347,007. OIL-BURNER. CARL E. BROWN, Columbus, Ohio. Filed Oct. 29, 1919. Serial No. 334,108. 1 Claim. (Cl. 158—64.)

A device of the class described comprising a casing, hoods on the casing and having vertically elongated openings; a U-shaped generator including a lower arm extended through the openings, and an upper arm disposed above the hoods, the lower arm being provided with combustion orifices located in the hoods; an arched support on the casing, the support being symmetrical with respect to a vertical plane and having seats located on opposite sides of said plane, the support being provided with an intermediate seat located between the side seats, the



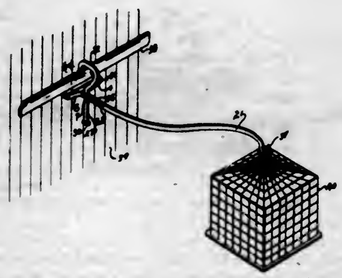
upper arm of the generator being received in the intermediate seat, and being movable to occupy either of the side seats, thereby effecting an axial rotation of the lower arm of the generator and causing the combustion orifices to discharge laterally in opposite directions, the vertical elongation of the openings in the hoods permitting the lower arm of the generator to rise, when the upper arm of the generator is moved out of the intermediate seat.

1,347,008. GRADING-MACHINE. EDGAR P. BROWN, Madera, Calif. Filed July 28, 1919. Serial No. 313,932. 4 Claims. (Cl. 37—49.)



1. In a grading machine, the combination of a wheeled vehicle, a rotatable member mounted on said vehicle, rollers interposed between said vehicle and said rotatable member, a goose neck rigidly attached to said rotatable member, pneumatic cylinders vertically mounted at the outer ends of said goose neck, a scraper located beneath said vehicle, pistons mounted in said pneumatic cylinders, said pistons being connected to the opposite ends of said scraper and capable of independently raising and lowering the opposite ends of said scraper.

1,347,009. WALL-MOLDING HANGER FOR BIRD-CAGES, &c. ALLEN BURROWS, Los Angeles, Calif. Filed Aug. 26, 1919. Serial No. 319,989. 3 Claims. (Cl. 248—48.)

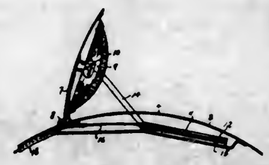


2. A wall molding hanger for bird cages and the like comprising a gripping bar adapted to engage a wall molding, an arm extending upwardly and outwardly from the gripping bar, an adjusting bar extending downwardly from the forward end of the arm, a brace, cushions upon the ends of the brace and adapted to engage a wall, means for adjusting and connecting the bar to the brace, and a supporting bar extending outwardly from the adjusting means.

1,347,010. PROCESS OF PRODUCING LITHOGRAPHIC INSERTS. JOHN H. BUSCHER, Washington, D. C. Filed Dec. 4, 1918. Serial No. 265,313. 5 Claims. (Cl. 41—41.5.)

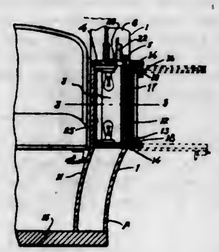
1. A process for producing lithographic inserts comprising marking out a predetermined outline upon a sensitive surface, coating all of said surface except the area defined by said outline, with a resist, and applying a design to the uncoated surface only by means of an inked impression member provided with the desired design.

1,347,011. SIGNAL. CARL T. COCHRAN, Houston, Tex. Filed July 14, 1919. Serial No. 310,703. 2 Claims. (Cl. 40—67.)



1. A signal device for motor vehicles, including wheel fenders provided with recesses, plates hinged to said fenders, translucid concavo-convex lenses secured to said plates, electric lights carried by the plates and inclosed by said lenses, said lenses being inclosed by said plates in said recesses, when the plates are lowered into contact with the fenders and means for lifting and lowering said plates.

1,347,012. ADVERTISING-CAR CONSTRUCTION. PEARL C. COLONY, Los Angeles, Calif. Filed July 15, 1919. Serial No. 310,997. 8 Claims. (Cl. 40—182.)



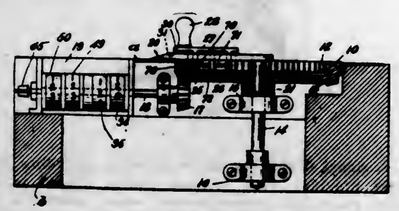
1. A car formed with the usual side wall including spaced uprights, windows being provided between the upper portions of the uprights and outer and inner sheathing being applied to the lower portions of the uprights, the wall being formed with a longitudinally extending series of outwardly facing hollow chambers arranged under the windows and between the uprights, transparencies at the outer sides of the chambers, and means within the chambers for illuminating the transparencies.

1,347,013. TOASTER. LLOYD G. COPEMAN, Flint, Mich. Filed Oct. 31, 1919. Serial No. 334,739. 7 Claims. (Cl. 219—19.)



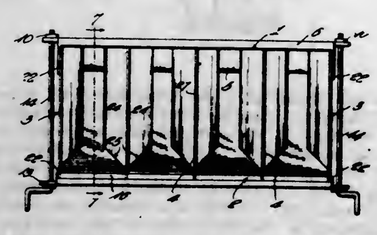
6. In a toaster, the combination of a base, a pair of end uprights provided with slotted bearing recesses, a pair of grids movably supported at the top of the end supports and pivoted together at the bottom, the said outer grid being also pivotally supported in the slotted bearing recesses of the end supports, and latches which may be moved over a portion of the outer grid to hold the grids releasably in the said slotted bearing recesses of the end supports.

1,347,014. TIME-COMPUTING APPARATUS. CYRUS CORLISS, Boston, Mass. Filed May 10, 1915. Serial No. 26,936. 1 Claim. (Cl. 235—61.)



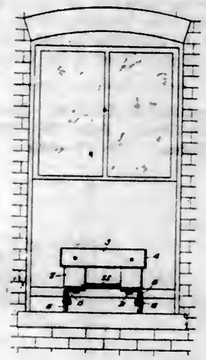
In an apparatus of the character described, in combination, a casing provided with a top having in it a plurality of openings one of which is circular, a circular member provided with teeth and rotatable in said circular opening, a scale on the top of said casing provided with graduations corresponding in number to the teeth of said rotatable member, a totalizer located in said casing below the other of said openings and visible therethrough and comprising a plurality of rotatable members, means for connecting said toothed circular member with said totalizer, a rotatable pointer pivoted within the opening with which said scale coöperates and movable freely over said scale in either direction for more than a complete revolution and independently of said toothed circular member, and means for coupling any desired tooth of said pointer with said toothed member.

1,347,015. CORNER-BLOCK MOLD. FRANK CREASON, Richmond, Mo., assignor of one-half to William A. Mullin, Richmond, Mo. Filed Feb. 5, 1920. Serial No. 356,473. 3 Claims. (Cl. 25—121.)



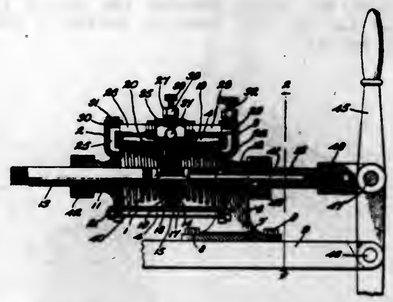
3. A cement block mold comprising a side plate stamped inwardly along its longitudinal center to form an internal rib, vertical bars spanning the inwardly stamped portion of said side plate and secured to the outer surface of the latter, a longitudinal bar secured to said vertical bars and extending beyond the ends of said side plates, a second side plate, a second longitudinal bar secured to the outer surface of said second side plate and extending beyond the ends thereof, spacing plates secured to the inner surface of said second side plate, inwardly extending stop flanges on the ends of the two side plates, end and partition members extending between said side plates and provided at one end with notches receiving the rib of said first named side plate, said end members abutting said stop flanges and certain of said spacing plates, and said partition members being received between the other spacing plates, and tie rods extending between the projecting ends of said first and second named longitudinal bars.

1,347,016. WINDOW-SEAT. DAVID F. CROWE, Latrobe, Pa. Filed Mar. 8, 1920. Serial No. 364,087. 2 Claims. (Cl. 304—27.)



1. A window seat comprising a seat having forwardly extending arms adapted to extend transversely of the sill, a bar for engaging the inner face of the sill adjustably connected with the arms, and adjustable legs connected with the arms between the bar and the seat, each arm having at the end remote from the seat a depending portion, and a bar of a length to extend beyond the window frame at each end and adjustably connected with the depending portions.

1,347,017. FLUID-CHECKING DEVICE. NELSON E. DAVIES, Redwood City, Calif. Filed Sept. 19, 1919. Serial No. 325,042. 4 Claims. (Cl. 188—97.)



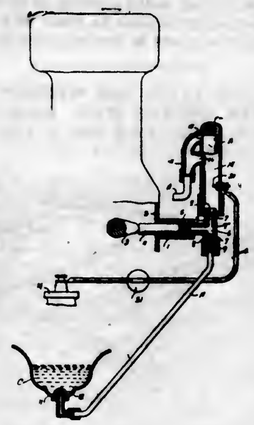
2. In a device of the class described the combination of a cylinder; a head closing each end of said cylinder, each of said heads being provided with a restricted passage; a check valve comprising a casing having a recess, a ball and means adapted to positively hold said ball in said recess, and to prevent it from entering therein at will; connections between said casing and each of said passages; a piston mounted in said cylinder; a piston rod carrying said piston; and springs coacting with said piston to normally maintain the same in a central position in said cylinder, substantially as described.

1,347,018. TREAD ATTACHMENT FOR TRACTOR-WHEELS. JOSEPH C. F. DICK, Stockton, Calif. Filed Aug. 28, 1919. Serial No. 320,327. 4 Claims. (Cl. 21—215.)



4. A flexible tread attachment for tractor wheels comprising in combination with vertical flanges on the outer periphery and edges of the wheel, the flanges being provided with spaced interstices, suspending members in such interstices, chains between the flanges and arranged in transverse and diagonal order around the periphery of the wheel, and cone shaped members having their points projecting outwardly positioned between adjacent diagonal and transverse chains and adapted to be secured thereto.

1,347,019. LUBRICATING MECHANISM. LAKE B. EDWARDS, Anniston, Ala. Filed Aug. 13, 1919. Serial No. 317,260. 6 Claims. (Cl. 184—6.)

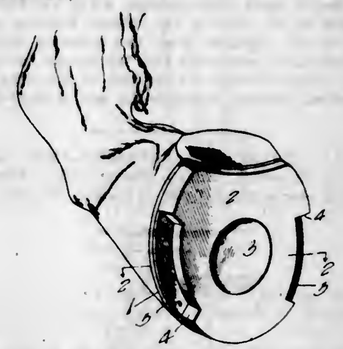


5. A lubricating mechanism comprising a chamber provided with an outlet, means for forcing lubricant through the chamber and outlet, relatively movable contact members carried by the chambers, said contact members being maintained separated by the pressure of the lubricant passing through the chamber, one of said contact members moving by gravity into engagement with the second contact member upon reduction of pressure of the lubricant passing through the chamber and expansible means coacting with said first named contact member for imparting movement to said contact member in a direction toward the second contact member upon reduction of the pressure of the lubricant passing through the chamber, said expansible member being placed under compression by said first named contact member when separated from the second named contact member by the pressure of the lubricant passing through the chamber.

1,347,020. PAPER TOWEL. ARVID EK, PORTLAND, Me. Filed May 31, 1919. Serial No. 300,817. 1 Claim. (Cl. 92—68.)

A paper towel formed of wood fiber digested with sulfate of soda leaving a small quantity of saponified resin in the interstices of the paper.

1,347,021. HORSESHOE. THADDEUS S. FIELD, Atlanta, Ga. Filed Nov. 10, 1919. Serial No. 336,943. 1 Claim. (Cl. 168—28.)



A cushion horseshoe or other shoe adapted, when being applied to a hoof, to adjust itself to conform to the shape of the hoof; said shoe comprising a backing sheet of tough flexible non-resilient material adapted to fit next to the bottom of the hoof and being shaped to conform to the contour thereof; a cushion block of flexible resilient material fastened flat against the lower side of said sheet and having its contour shaped to conform to the contour of said sheet, except at its side edges where it is provided with arcuate cutaway portions, the central portion of the lower surface of said block having a recess therein; and flat arcuate attaching plates of stiff material disposed in said cutaway portions and fitting flat against the lower side of said sheet, said plates being adapted to receive and to carry securing elements by which the shoe may be attached to the hoof, the thickness of said plates being considerably less than the thickness of said block so that said plates will not contact with the ground or paving.

1,347,022. GAGE DEVICE. JOHN J. FITZGERALD, Los Angeles, Calif. Filed Apr. 5, 1919. Serial No. 287,877. 4 Claims. (Cl. 73—111.)

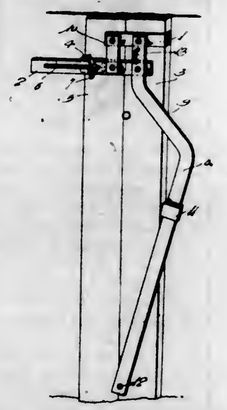


1. A fluid pressure gage including a tubular terminal fitting, a hollow body member carried by the terminal fitting and having an opening therein, a slidable indicator rod normally housed within the hollow body member and adapted to be projected outwardly through the opening of the body member, said indicator rod being formed with a scale which coöperates with the body member to indicate pressure and being frictionally engaged by the edges of the opening to hold it against accidental movement, a plunger slidable within the terminal fitting and extending

into the hollow body member for engagement with the indicator rod to project the same through the opening of the hollow body, an exterior flange upon the plunger, and a spring surrounding the indicator rod and interposed between the said flange of the plunger and the walls of the hollow body to resist the movements of the plunger.

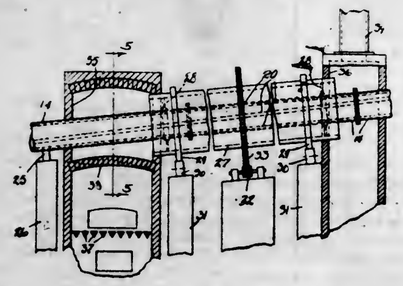
4. A combination tire pressure and cylinder compression gage, including a tubular terminal head provided exteriorly with a plurality of threaded portions which are of different diameters and provided for engagement with different sizes of spark plug openings, a tire valve-engaging seat fitted in the bore of the tubular head, a plunger slidable in the terminal head, and pressure indicating means operatively associated with the plunger for indicating the interior pressure of the tire or the compression of the engine cylinder, to which the gage is applied.

1,347,023. ADJUSTABLE BATTEN-CLAMP. EDWARD GEE and ROBERT L. BURNS, Denver, Colo. Filed Nov. 13, 1919. Serial No. 337,899. 6 Claims. (Cl. 144—289.)



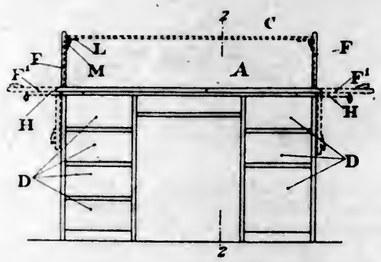
1. A clamp of the type specified comprising clamping jaws for holding two opposed battens together, an actuating lever for the jaws, means carried by the lever to permit a brace to be detachably connected thereto, and means carried by and longitudinally shiftable on the lever for retaining it in effective position when said last named means is permitted to engage one edge of one of the battens.

1,347,024. APPARATUS FOR TREATING SILICATES. WALTER GLAESER, Fullerton, Pa., assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 19, 1917. Serial No. 192,182. 2 Claims. (Cl. 263—34.)



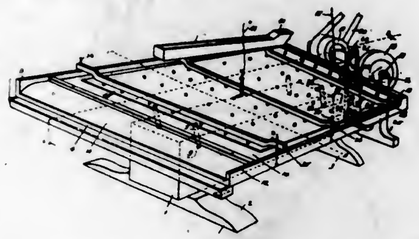
1. In apparatus of the character described, the combination of a stationary furnace chamber, a stationary stack chamber spaced therefrom, a rotary tubular shell connecting and affording communication between said chambers, a kiln mounted in said shell and extending through said chambers and projecting beyond the front wall of said furnace chamber, and receiving means associated with the projecting end of said kiln beyond the wall of the furnace chamber.

1,347,025. DESK. JEAN MARIE GLOPPE, Lyon, France. Filed Jan. 23, 1920. Serial No. 353,410. 1 Claim. (Cl. 45—92.)



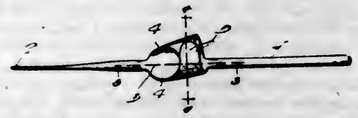
A flat top desk having faces on opposite sides, a well arranged substantially midway between said faces, a flexible cover, arranged, when in open position, in said well, and end wall members hingedly connected to the ends of the desk and foldable thereagainst, said members, when extended above the top of the desk forming guides for said flexible cover and coacting therewith to form a complete cover thereover, said members having grooves on their inner sides for the reception of the ends of the cover and also having guard molding on their inner sides, said cover having projections to coact with said molding to lock the said members in upright position.

1,347,026. APPARATUS FOR EXTRACTING METAL FROM ORES AND THE LIKE. HAROLD H. GODFREY, Los Angeles, Calif. Filed Aug. 4, 1919. Serial No. 315,272. 10 Claims. (Cl. 204—15.)



1. An apparatus for extracting metal from ore including an ore concentrating shaking table inclined longitudinally and tranversely, said table being covered with a cathode, and an anode spaced above said cathode.

1,347,027. CROCHET-NEEDLE. ISAAC GREEN, Manchester, N. H. Filed Apr. 25, 1918. Serial No. 230,761. 1 Claim. (Cl. 66—17.)



A crochet needle thinned between its ends for a distance substantially equal to the length of the first joint

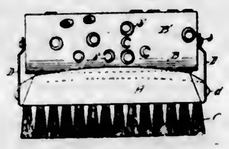
of a person's forefinger, a pair of thin resilient wings extending oppositely from and integral with said thinned part of the needle, said wings and said thinned part being jointly curved to form a finger receiving thimble whose axis is oblique to the needle, said wings being of a width at their inner ends substantially equal to the length of said thinned part of the needle and decreasing in width toward their outer ends, said outer ends slidably overlapping, being free of connection with each other, and being rounded to prevent catching of thread thereon.

1,347,028. PROCESS OF GRAINING. PAUL A. GSTALDER, Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 18, 1919. Serial No. 304,984. 6 Claims. (Cl. 41—26.)



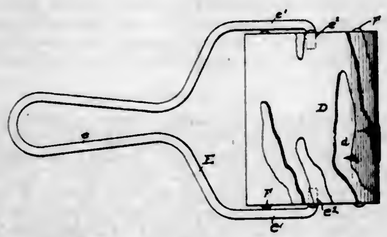
1. The process of graining comprising applying graining compound to a surface, removing certain regions of the compound, and then applying additional compound to certain regions of the untreated compound.

1,347,029. GRAINING-TOOL. PAUL A. GSTALDER, Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 18, 1919. Serial No. 304,985. 1 Claim. (Cl. 41—5.5.)



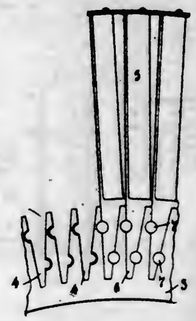
A graining tool comprising a roller having projections, in the form of non-concentric, suctorial, elastic rings, irregularly grouped over its surface.

1,347,030. GRAINING-TOOL. PAUL A. GSTALDER, Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 20, 1919. Serial No. 305,571. 6 Claims. (Cl. 41—5.5.)



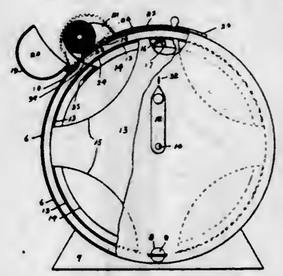
1. In a graining tool, the combination of a roller having projections on its surface, and means for enabling the roller to rotate freely or to be held against rotation as desired.

1,347,031. ATTACHMENT OF MOVING BLADES OF ELASTIC-FLUID TURBINES. HENRY LEWIS GUY, Manchester, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited, a Company of Great Britain. Filed Jan. 31, 1917. Serial No. 145,630. 4 Claims. (Cl. 253—77.)



1. In combination with a turbine rotor provided with an axially extending tapered slot having its greatest circumferential width at its outer end, a blade having a tongue tapered to correspond with said slot, and two securing pins for the blade passing half through said tongue and half through the walls of said slot and located in different pitch circles.

1,347,032. FILM-DEVELOPING DEVICE. WINSLOW A. HAMMOND and JAMES HAMMOND, Randolph, Nebr.; Metta Hammond administratrix of said Winslow A. Hammond, deceased. Filed Feb. 27, 1918. Serial No. 219,385. 9 Claims. (Cl. 95—90.5.)

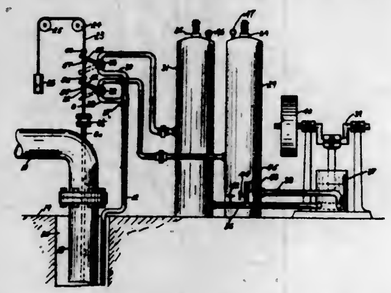


1. A film-developing device comprising a developing-fluid container, reel mechanism rotatable therewithin, the container having a film passage, a case hinged to the container to open and close the passage, and adapted to rotatably inclose a film roll, and film-engaging means on the reel mechanism, whereby the film may be wound from the case onto the reel mechanism.

1,347,033. PNEUMATIC PUMP. HENRY J. HAWVICHORST, Tulare, Calif. Filed July 2, 1919. Serial No. 308,245. 1 Claim. (Cl. 103—8.)

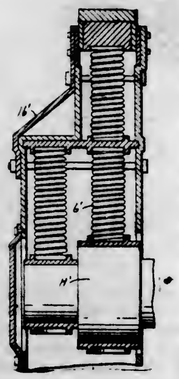
A pneumatic pump comprising a pump cylinder adapted to be mounted in a liquid in a well and having an intake valve, an air pipe connected to the top of the cylinder, a liquid pipe leading from near the bottom of the cylinder, a check valve in the liquid pipe, a pump tube leading upwardly from the check valve, a rod slidingly mounted through the top of the cylinder, a float upon the rod in the cylinder, stops upon the rod above and below the

float, the rod extending to a point above the top of the well, a cable connected to the upper end of the rod and extending over guide pulleys, a weight upon the other end of the cable, stops upon the cable, branch pipes connected to the upper end of the air pipe, stop valves in the branch pipes and having plugs with ports at right angles to each other, arms extending from the plugs and engaging the stops upon the cable, an exhaust tank connected to one branch pipe, a pressure tank connected



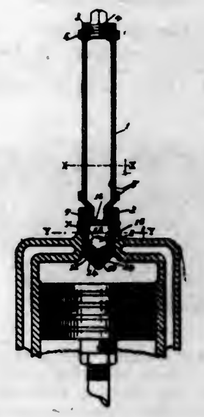
to the other branch pipe, a pipe leading from the exhaust tank to the pump, a pipe leading from the pump to the pressure tank; so that when the float goes down the exhaust branch will be closed and the pressure branch opened to allow the pressure to force the liquid out of the cylinder up the pump tube, and so that when the float goes up the exhaust branch will be opened and the pressure branch closed, and so that the exhaust air passing through the exhaust branch will go to the exhaust tank and to the pump under pressure.

1,347,034. RESILIENT WHEEL. JOHN W. HEADLEY, Long Beach, Calif. Filed Dec. 3, 1919. Serial No. 342,159. 3 Claims. (Cl. 152—28.)



1. A resilient wheel structure comprising, in combination, a hub provided with an extension at its outer end, an annular member surrounding said hub and spaced therefrom, said annular member also surrounding the extension of the hub, a cushioning agency interposed between the annular member and the hub, a cushioning agency interposed between the annular member and the extension of the hub, side plates carried by the annular member and extending inwardly thereof, said plates also extending outwardly of the annular member, a felly positioned between the outwardly extending portions of the side plates, cushioning means interposed between the annular member and the felly, brace plates secured to the side plates and to the outer marginal portions of the outwardly extending parts of the side plates, said brace plates extending beyond the peripheries of said side plates, and annular plates secured to the opposed faces of the extended portions of the side plates and with which the felly has sliding contact.

1,347,035. AUTOMATIC INJECTOR. JAMES M. HENDRON, Springfield, Ill. Filed May 26, 1919. Serial No. 299,727. 1 Claim. (Cl. 123—198.)



In an appliance of the class described, the combination of a tubular screw plug having a polygonal head, an internally screw threaded opening through the head, a cylindrical body externally screw threaded, a tapered terminal part, a valve seat in said terminal part, a chamber in said terminal part below the valve seat, and a series of dispersive openings through the wall of said terminal part; a ball supported on said valve seat; and a container screwing into the head of the plug and having a flared terminal on which the ball engages upon outward movement of the ball.

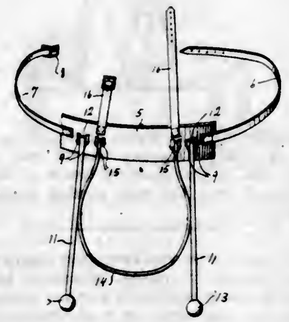
1,347,036. KNIFE. JOHN H. HENSON, Firebaugh, Calif. Filed Aug. 21, 1919. Serial No. 318,932. 1 Claim. (Cl. 279—15.)



A knife comprising a handle member provided at its end with a perforated blade attaching head, said head being provided with transversely disposed passages defining outwardly projecting lugs, at its corners, a reversible blade having its inner end reduced to form a shank and shoulders, the shank being of substantially the same area in cross section as the said passages, and being adapted to fit in said passages, said shank portion being provided with a perforation adapted to register with the perforation in the head, a clamping plate adapted to bear on the upwardly projecting lugs and shank, being provided with a perforation adapted to register with

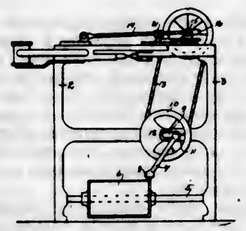
the first named perforations, and a bolt to extend through said perforations, being of a length to permit the blade to be adjusted to several positions without removing the same.

1,347,037. BODY-BRACE. JEREMIAH R. HOLLIDAY, Winnsboro, S. C. Filed Apr. 28, 1920. Serial No. 377,339. 2 Claims. (Cl. 155—37.)



1. A body brace comprising a plate, securing means carried by the end portions of said plate for securing the plate upon the person, legs pivoted at one of their ends to the portion of said plate disposed beneath the arm pits of the person, the upper portion of said legs being disposed in a plane parallel to the plane of the plate, the lower portion of said legs gradually extending outwardly for engagement with the ground, a neck strap secured to the plate between the legs, and a U-shaped brace pivoted at its ends to the plate and adapted to engage the legs.

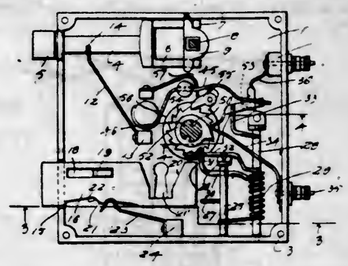
1,347,038. SOLE-STITCHING MACHINE. ABRAHAM MAX HOLTZMAN, Brooklyn, N. Y. Filed Dec. 22, 1917, Serial No. 208,343. Renewed Mar. 13, 1920. Serial No. 365,659. 3 Claims. (Cl. 112—28.)



1. A sole stitching machine having a needle bar, a lever for operating said bar, a rod connected to said lever a driving means for reciprocating said rod and an adjustable projection movable upon said rod for operating the bobbin.

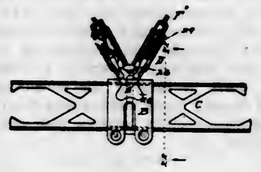
1,347,039. CIRCUIT-CLOSER FOR LOCKS. JAMES J. HOOD, Ponder, Ga., assignor of twenty-five per cent. to Sarah A. Saxon, Ponder, Ga. Filed July 3, 1918. Serial No. 243,241. 3 Claims. (Cl. 200—55.)

1. A device of the character set forth comprising a casing, a locking bolt slidable in said casing, tension means for said locking bolt, spaced contacts carried by said casing, a shaft journaled in said casing, a second shaft journaled in said casing, tension means for said second shaft, an arm carried by said second shaft and in engagement with one of the contacts, means establishing a connection between the shafts, and an arm carried by said first shaft and adapted to be engaged upon the retraction



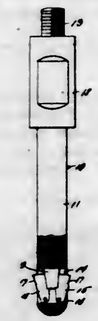
of the locking bolt to cause the latter arm to move the contacts through the above named means in engagement with each other.

1,347,040. AEROPLANE CONSTRUCTION. HARRIS G. HOOPER, Los Angeles, Calif. Filed Sept. 19, 1918. Serial No. 254,712. 8 Claims. (Cl. 244—31.)



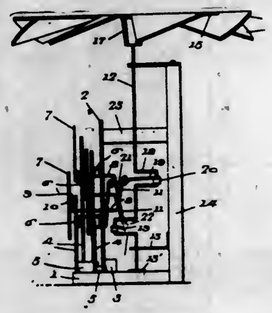
1. In aeroplane construction, a clip adapted to fit around a frame member, means for securing the clip in a selected position on the frame member, a stud projecting from the clip, a compression member abutting against the stud, and a clamping collar overlapping the abutting ends of both the stud and the compression member for holding the said members together.

1,347,041. FISHING-TOOL FOR PUMPS. RALPH W. HOOVER, Armstrongs Mills, Ohio. Filed Apr. 19, 1918. Serial No. 229,602. 2 Claims. (Cl. 294—93.)



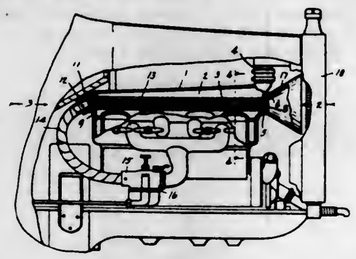
1. A tool of the class described comprising a rod having extending transversely through its lower end, a pair of gripping elements pivotally mounted at their lower ends in the lower end of said opening with their outer edges at their upper ends threaded to interlockingly engage the threads of a valve, and a resilient element mounted between said elements.

1,347,042. PAPER-TOY AMUSEMENT DEVICE. ANTHONY HUBNER, Bloomingdale, N. J., assignor of one-half to Louis J. Lichtenberger, New York, N. Y. Filed July 8, 1919. Serial No. 309,267. 2 Claims. (Cl. 46—40.)



1. An amusement device embodying a base, a background on the base, supporting means on the base at different positions longitudinally of the background and at different distances therefrom, a group of independent cut-out figures in front of the background supported by said means in a predetermined relation, stays connecting said figures to the background to hold them upright, rock shafts journaled through said background and figures, movable parts for said figures carried by said shafts, a vertical crank shaft in rear of the background, a propeller mounted on said crank shaft above the background, and an operative connection between said shafts in rear of the background.

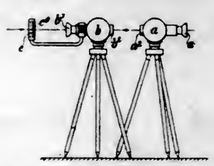
1,347,043. COOLING SYSTEM FOR GAS-ENGINES. HOMER H. JUSTICE and EDMUND J. O'BRIEN, Pasadena, Calif. Filed Mar. 24, 1919. Serial No. 284,785. 3 Claims. (Cl. 123—170.)



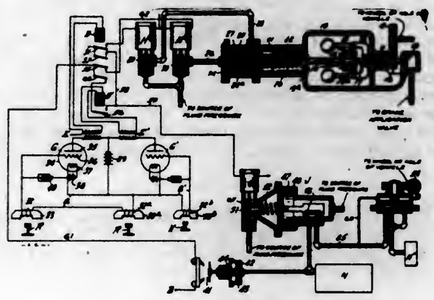
1. A cooling system for gas engines comprising air flues mounted to extend through the water chamber, and a connection between the discharge ends of the air flues and a carburcter, so that the action of the engine will draw air through the flues to cool the water and warm the air.

1,347,044. ADJUSTMENT OF UNIOCULAR TELEMETERS. ALBERT KÖNIG, Jena, Germany, assignor to Firm of Carl Zeiss, Jena, Germany. Filed Apr. 8, 1915, Serial No. 20,063. Renewed Dec. 29, 1919. Serial No. 348,200½. 2 Claims. (Cl. 88—2.7.)

1. Method of adjusting a telemeter comprising an ocular, two objective reflecting systems the distance apart of which systems forms the base-line of the telemeter, two objective lenses each placed behind one of the said objective reflecting systems and a separating prism system adapted to transmit the two ray-pencil-systems entering the said objective reflecting systems to the said ocular, which method consists in imaging in the focal plane of a similar second telemeter having a base-line of about equal length any object by means of the ocular of the said second telemeter, placing the telemeter to be adjusted opposite the second telemeter in such a manner, that the rays emerging from the second telemeter enter the objective reflecting systems of the telemeter to be adjusted, and observing by means of the ocular of the telemeter to be adjusted the two images, each of which is formed by one of the objective lenses of the telemeter to be adjusted from the rays passing through this objective lens.



1,347,045. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. LLOYD V. LEWIS, Edgewood borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Apr. 16, 1917, Serial No. 162,262. Renewed Dec. 27, 1919. Serial No. 347,838. 11 Claims. (Cl. 246—39.)



2. A railway traffic controlling system comprising apparatus on a vehicle for imposing a high speed limit, a medium speed limit, or a low speed limit, trackway means for rendering said apparatus effective to impose the high speed limit, and a slow-acting device on the vehicle for rendering said apparatus effective to impose the medium speed limit during a limited interval after said trackway means ceases to be effective, said apparatus operating to impose the low speed limit after said slow-acting device ceases to be effective.

5. A railway traffic controlling system comprising a slow-acting device on a vehicle, vehicle governing apparatus controlled by said device for imposing a fixed speed limit during the interval required for said device to operate, and trackway means for holding said device in its initial condition and removing said vehicle governing apparatus from control by said device to permit progress of the vehicle at a speed higher than said fixed value.

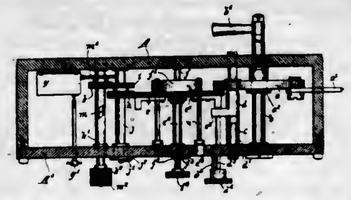
9. Railway traffic controlling apparatus comprising a high speed magnet and a medium speed magnet carried by a vehicle, means controlled from the trackway for energizing said high speed magnet, a slow-acting device on the vehicle arranged to change from an initial condition to an ultimate condition within a fixed interval, means controlled by said slow-acting device while changing for energizing said medium speed magnet, means for holding said slow-acting device in its initial condition while the high speed magnet is energized, means located at intervals in the trackway for restoring said slow-acting device when the high speed magnet is deënergized, and vehicle governing means controlled by said magnets for imposing a high speed limit when the high speed magnet is energized, a medium speed limit when the medium speed magnet only is energized, and a low speed limit when both magnets are deënergized.

1,347,046. MINER'S CAP. MARTIN T. MCDONOUGH. Wheeling, W. Va. Filed Jan. 16, 1920. Serial No. 351,752. 3 Claims. (Cl. 2—117.)



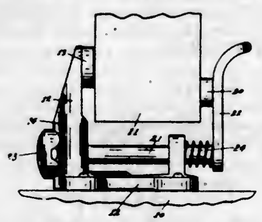
3. A miner's cap comprising a body portion, a foraminous crown portion covering the opening in the top of the body portion and a circular dished shield plate having its concaved side overlying said foraminous crown portion, said shield plate being provided with upstanding V-shaped radial offsets extending to its periphery and forming air channels communicating with the space between the shield plate and said foraminous head portion.

1,347,047. TIME-LOCK. AMEDEO A. MANCINI, Brooklyn, N. Y. Filed Oct. 7, 1919. Serial No. 329,127. 19 Claims. (Cl. 70—26.)



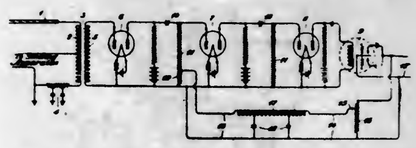
1. A time lock embodying therein a bolt mechanism, an actuating mechanism therefor including therein a rotatable plate operatively connected with said bolt mechanism, a locking mechanism adapted, when said bolt mechanism is operative, to engage and prevent rotative movement of said plate, a releasing mechanism normally disengaged from, but adapted to engage, said locking member at predetermined intervals and disengage it from said plate, and clock works controlling said releasing mechanism.

1,347,048. DOOR STOP AND HOLDER. ALBERT H. MARDAUS, Minneapolis, Minn. Filed Jan. 6, 1920. Serial No. 349,690. 6 Claims. (Cl. 292—103.)



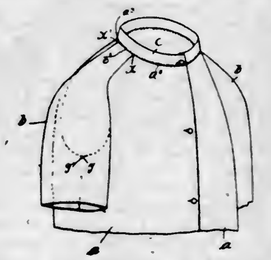
1. A door stop and holder consisting of a fixed bracket having a rib thereon, a door engaging member pivotally mounted to said bracket adjacent said rib, said member having radial notches and means for yieldingly pressing same against said rib whereby the door engaging member may be yieldingly held in either idle or operative position.

1,347,049. CORRECTING CIRCUITS FOR HIGH-DISTORTION LINES. WILLIAM H. MARTIN, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 18, 1918. Serial No. 240,624. 3 Claims. (Cl. 178—63.)



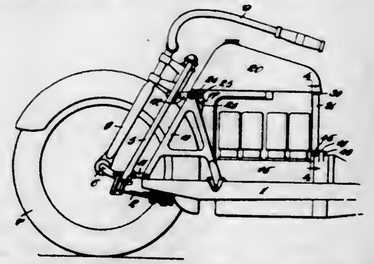
1. The combination with a transmitting line of high distortion and attenuation, of a thermionic amplifier for increasing the strength of the received current impulses, a relay for responding to the amplified impulses, and means for applying to the input circuit of the thermionic amplifier a gradually increasing potential proportional to the number of successive impulses of like sign arriving in the output circuit of said relay.

1,347,050. GARMENT AND METHOD OF CUTTING THE SAME. MARY C. MURPHY, Haverhill, Mass. Filed Jan. 25, 1919. Serial No. 273,137. 5 Claims. (Cl. 2—92.)



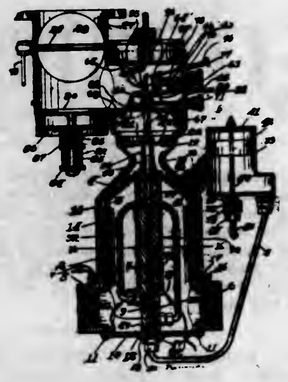
1. A garment comprising a body section having its top edge formed to provide collar portions at the front and at the back and intermediate arm-scye notches, the edges of which lead from the adjacent ends of said collar portions, and one-piece sleeves extended to form side collar portions, in continuation with said front and back collar portions, and seamed to the edges of said notches, the longitudinal edges of said sleeves being joined by seams extending from the bottom of said notches.

1,347,051. TANK SUSPENSION FOR MOTOR-VEHICLES. BOUDEWIJN B. NEUTEBOOM, Detroit, Mich., assignor to The Militor Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 29, 1918. Serial No. 251,981. 10 Claims. (Cl. 280—5.)



1. The combination of a vehicle structure, a tank hingedly connected to the structure at one point, and a connection between the tank and structure at another point that is capable of universal movement.

1,347,052. CARBURETER. FREDERICK A. OST, Minneapolis, Minn. Filed July 6, 1914, Serial No. 849,125. Renewed Dec. 8, 1919. Serial No. 348,425. 5 Claims. (Cl. 261—12.)



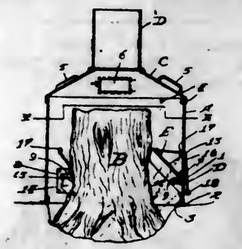
1. A carbureter, comprising, in combination, inclosing walls forming inner reverberatory and outer gasifying chambers, said inner chamber being formed with an inlet and an outlet for the ingress and egress of exhaust gases and said outer chamber having an inlet and an outlet for the admission of air and the egress of fuel mixture, said inner chamber being formed with a long fuel gasifying tube depending downwardly therein having its lower end adapted to be connected with a source of fuel supply and its upper end connected with said outer chamber, a valve seated in said tube and adapted to close the passage in its lower end and having a long stem extending upwardly through said passage and provided with a channel in its side whereby residue in the passage of said tube from the passage of fuel mixture therethrough is collected, said valve being removably mounted in said tube, whereby said channel can be cleaned and means for opening and closing said valve.

1,347,053. MOTION-PICTURE FILM. OLE ANDREW OWEN, New York, N. Y. Filed Aug. 29, 1919. Serial No. 320,634. 6 Claims. (Cl. 88—19.5.)



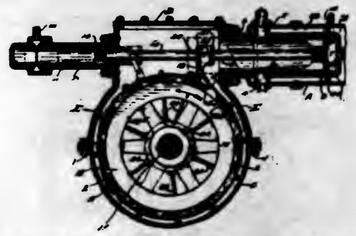
1. A motion picture film having successive spaced portions provided with successive pictures and corresponding spaced portions of equal size between said pictures occupied by descriptive matter to cause such descriptive matter when the film is projected upon a screen to have an apparent effect of being superposed upon said picture.

1,347,054. STUMP-BURNER. BENJAMIN F. PAXTON, St. Paul, Minn. Filed July 12, 1917. Serial No. 180,218. 5 Claims. (Cl. 110—21.)



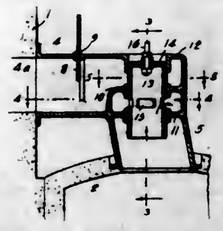
1. A stump burner, comprising, a casing adapted to inclose a stump, having a draft inlet, a movably adjusted draft director coöperating with a stationary draft director secured to the casing over said inlet, said movable director comprising a laterally and inwardly extending blade, whereby draft is changed in a further downward direction and spread on the stump, and means for raising and securing said movable director in elevated position.

1,347,055. GAS-ENGINE. PETER R. PETERSON, Salt Lake City, Utah. Filed Mar. 7, 1919. Serial No. 281,289. 2 Claims. (Cl. 123—65.)



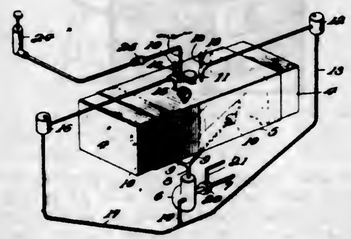
1. In a gas engine the combination of an explosion cylinder having an exhaust and an inlet port; an air cylinder in alinement with said explosion cylinder; a piston operable in each of said cylinders; a connecting rod between said pistons; a driven shaft transversely mounted adjacent said connecting rod; a rotor secured on and rotatable with said shaft; a friction band concentrically spaced from said rotor; friction shoes fastened on the inner face of said friction band; springs to normally hold said shoe spaced from said rotor; and a connecting lever pivoted to the ends of said friction band and operated by said connecting rod.

1,347,056. VALVE FOR COKE-OVENS AND THE LIKE. WILLIAM E. ROBERTS, New York, N. Y., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 17, 1919. Serial No. 283,106. 3 Claims. (Cl. 251—76.)



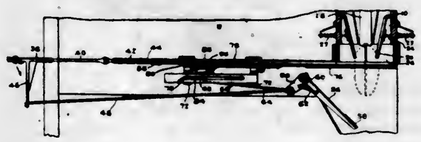
1. An air valve for coke ovens or the like comprising a casing forming two chambers, an air branch communicating with one of said chambers and a burnt gas branch communicating with the other and a cylindrical valve body having an open end in permanent communication with a flue and having a side opening adapted to be shifted to either of two positions in which it opens communication of the flue with said air branch and said burnt gas branch respectively.

1,347,057. METHOD OF EXTINGUISHING FIRES IN AND ABOUT HYDROCARBON-TANKS AND APPARATUS FOR CARRYING OUT THE SAME. WALDO A. ROSS, Sioux Falls, S. D. Filed Sept. 26, 1918. Serial No. 255,801. 6 Claims. (Cl. 169—4.)



1. The method of extinguishing fire in or about hydrocarbon tanks consisting in surrounding the tank on exposed surfaces thereof with a non-combustion supporting agent under pressure in excess of the pressure due to its head and greater than the pressure on the hydro-carbon in the tank.

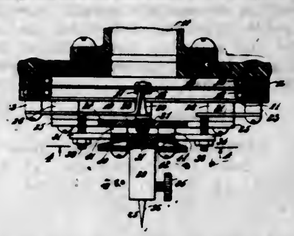
1,347,058. MACHINE FOR CUTTING SEED-POTATOES. JESSE LYLE SCHROEDER, Erie, N. D. Filed Mar. 5, 1920. Serial No. 363,436. 5 Claims. (Cl. 146—7.)



1. In a machine for cutting seed potatoes, the combination of a cutting-box, stationary knives in said cutting-box, means for forcing potatoes upon said knives to cut them longitudinally, means for holding the pieces of the potato which has just been cut, a pivoted member having its free end underneath and normally urged toward said cutting-box, means for depressing said pivoted member when said forcing means forces a potato upon said knives, a horizontally-movable knife blade, and means for causing said knife blade to move and cut transversely a long potato when said pivoted member is restrained thereby from returning to its full upward position.

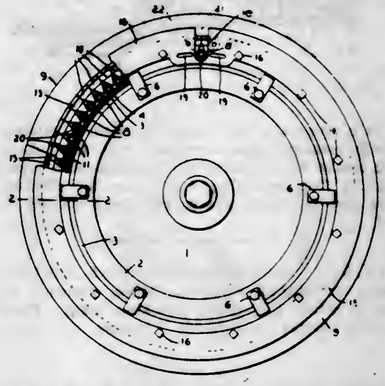
1,347,059. PHONOGRAPH SOUND-BOX. CHARLES H. SHAW, Babylon, N. Y. Filed Oct. 29, 1919. Serial No. 334,105. 8 Claims. (Cl. 274—28.)

1. A sound-box for phonographs, comprising a diaphragm chamber, a diaphragm, a needle-holder, means carried by the diaphragm chamber and supporting the needle-holder co-axially with the diaphragm, and connecting means between the diaphragm and the needle-holder enabling the latter to vibrate laterally or vertically



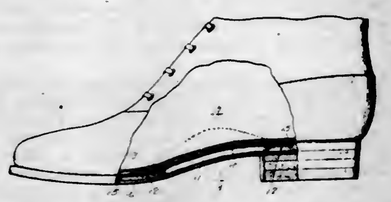
and thereby play a laterally cut or a hill-and-dale record without shifting or adjustment of the sound-box or any of its parts.

1,347,060. RESILIENT TIRE. JOSEPH SPADAFORA, Cambridge, Mass. Filed Apr. 23, 1919. Serial No. 292,105. 4 Claims. (Cl. 152—1.)



2. In a wheel having a resilient tire, the combination with a wheel body, of a rim applied thereto, an annular resilient tread member encircling said rim, but spaced therefrom, and a plurality of independent filling elements interposed between the tread member and rim, said filling members permitting any portion of the tread member to be moved inwardly on a radial line and such inward movement operating through the filling members to force adjacent portions of the tread member outwardly.

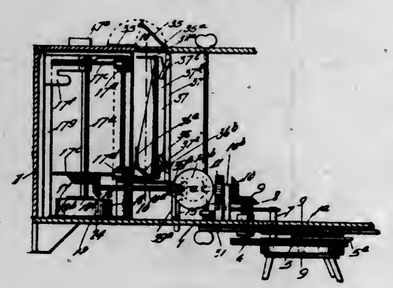
1,347,061. COMBINED SHANK AND ARCH SUPPORT FOR FOOTWEAR. JOHN STEINBRECHER, Chicago, Ill. Filed Aug. 12, 1918. Serial No. 249,531. 2 Claims. (Cl. 36—76.)



1. A shoe comprising inner and outer soles, an upper, and a heel and having a rigid supporting element interposed between the inner and outer soles in the shank portion of the shoe; said element comprising a metal plate arched between the heel and the ball of the shoe and having a

series of corrugations extending longitudinally of the plate and terminating within the end marginal portions, the walls of the corrugations being in close juxtaposition whereby a flat supporting surface for the insole is provided, said end marginal portions being flat, and the bottom edge of the corrugations resting upon the inner face of the outer sole.

1,347,062. PANORAMIC CAMERA. JEAN E. STROMBERG, San Diego, Calif. Filed Dec. 11, 1918. Serial No. 266,293. 18 Claims. (Cl. 95—15.)



1. In a camera of the class described, a camera case revolubly mounted upon a vertical axis, gear, shaft, and spring means for revolving said camera case, means for holding it from revolving, and means for shifting said camera case forwardly and backwardly relatively to said tripod.

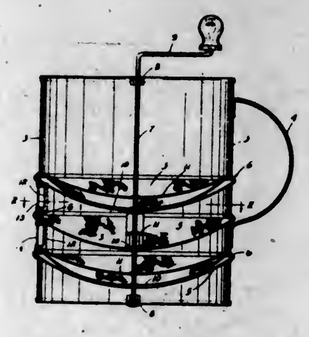
1,347,063. AUTOMOBILE SIGNAL MECHANISM. DELLO THIBEAULT, Campello, Mass., assignor of one-half to Alfred J. Veilleux, Brockton, Mass. Filed Oct. 1, 1919. Serial No. 327,768. 7 Claims. (Cl. 116—45.)



1. A signaling mechanism for automobiles comprising a relatively fixed holder-member carrying signal elements on one face thereof and a vertical guide on the opposite face thereof, a rotatably mounted shield arranged before the face of said member provided with the signals, said shield having a cut-away portion to selectively expose said signals when rotated, a member slidably mounted in said guideway on the other face of the holder member, said slide member being adapted to be reciprocated to project beyond and retracted within the confines of said holder.

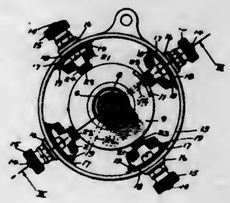
2. An automobile signaling mechanism comprising a rear shaft hanger having a longitudinal horizontal bearing and a transverse horizontal bearing, a longitudinal rock shaft journaled in said longitudinal bearing and provided with a signaling member thereon, a transverse rock shaft journaled in said transverse bearing and provided with a crank arm, gears connecting said two last-mentioned rock shafts, an operating lever movable on a fixed fulcrum between the front and rear hangers, and rods connecting said lever with the crank arms of the two transverse rock shafts, combined with means for releasably confining said lever in different predetermined positions.

1,347,064. FLOUR-SIFTER. JOSEPHINE TONSTAD and HELEN FINSNESS, St. Paul, Minn. Filed Oct. 31, 1919. Serial No. 334,673. 1 Claim. (Cl. 83—60.)



A flour sifter comprising a shell, a plurality of vertically spaced sieve bottoms in the shell, an upright stem journaled in the shell and having on its upper end an operating crank, scrapers secured to the stem and working over the upper faces of the sieve bottoms, a discharge opening in the shell between each pair of sieve bottoms, and individually operated gates for the discharge openings.

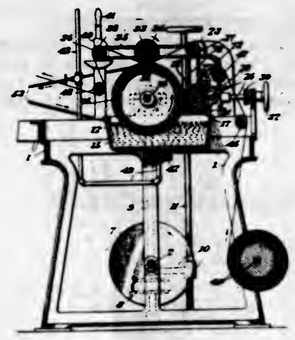
1,347,065. COMMUTATOR. LAUREN T. TUTTLE, San Francisco, Calif. Filed June 9, 1919. Serial No. 302,960. 5 Claims. (Cl. 200—26.)



4. In a contact device, the combination of a movable contact member, binding posts suitably insulated and in line with said movable contact, plates carried by the ends of said binding posts, coiled spring members each provided with a loop substantially in the center of the coils thereof and extending tangentially from said coil and each having its free ends secured to one of said plates, contact members carried by said loops, said contacts being circular in form and each provided with an annular groove adapted to engage a loop on one of said coiled spring members.

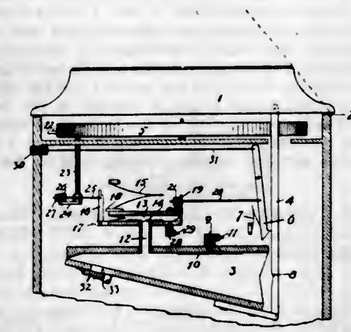
1,347,066. SILK-FINISHING MACHINE. GIUSEPPI P. VUONO, Brooklyn, N. Y. Filed Jun 30, 1919. Serial No. 307,679. 5 Claims. (Cl. 91—51.)

1. In a silk finishing machine, the combination of a paste container, a paste-applying roller formed of soft inherently resilient non-absorbent material having minute cells or cavities in its surface to take up and hold the paste, a pressure roller engaging the applying roller, a regulating roller engaging the applying roller at a point between the paste container and the pressure roller,



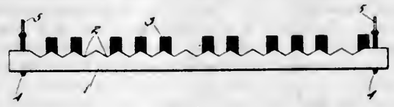
means for rotating said rollers, and means for adjusting the regulating roller to cause the same to deform the resilient cellular surface of the applying roller.

1,347,067. PHONOGRAPH-CABINET. FRANK C. WHITE, Meriden, Conn. Filed Apr. 30, 1918. Serial No. 231,576. 10 Claims. (Cl. 274—1.)



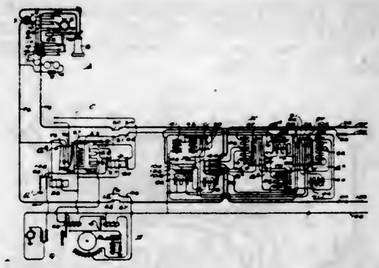
1. A cabinet for a phonograph including a cover movable from a closed to an open position and vice versa, and means for retarding the closing movement of the cover to cause the same to close slowly and quietly, means for permitting said phonograph to start, said means being associated with said retarding means to put the latter into operation when said means for permitting starting is operated.

1,347,068. KEYBOARD FOR PRACTICING AND TEACHING THE PLAYING OF THE PIANO. HENRY STAPLES WILDER, Newton, Mass. Filed Oct. 20, 1919. Serial No. 331,919. 4 Claims. (Cl. 84—92.)



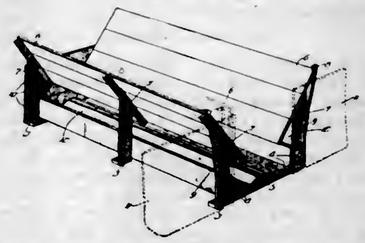
1. A keyboard for practicing and teaching piano having formed therein a plurality of corrugations parallel with and spaced apart from each other in similar relation to each other as the white keys of a regular piano keyboard.

1,347,069. AUTOMATIC TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 10, 1916. Serial No. 90,047. 7 Claims. (Cl. 179—18.)



6. In a telephone system, an automatic progressively movable switch provided with operating means and releasing means, and a common controlling circuit therefor, said means separately responsive to impulses of different frequency transmitted over said controlling circuit.

1,347,070. SHEEP-FEEDING RACK. OSCAR M. YORK, Millington, Mich. Filed Oct. 21, 1918. Serial No. 258,963. 2 Claims. (Cl. 119—59.)



1. A feeding rack of the character described comprising a U-shaped frame work having a floor and side boards to form feed troughs along each side, wings centrally pivotally supported on the top of the frame so as to close the sides of the rack and feed troughs when in vertical position, said wings being movable inwardly at their bottoms from the inside or one end of the rack to provide feeding openings, and means engaging the upper edges of the wings for holding them in such latter position.

1,347,071. PROCESS OF OXIDIZING ISO-BORNEOL TO CAMPHOR. ROLAND L. ANDREAU, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 12, 1917. Serial No. 201,676. 20 Claims. (Cl. 23—24.)

1. The process which comprises oxidizing iso-borneol into camphor by the application of mixed nitric and sulfuric acids.

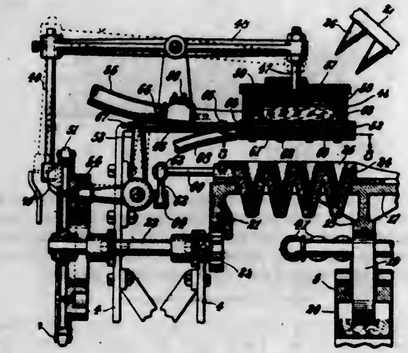
1,347,072. EYEGLASSES. EUGENE C. BERNHEIM, Southbridge, Mass. Filed Oct. 9, 1917. Serial No. 195,603. 6 Claims. (Cl. 88—50.)



1. In an eyeglass, the combination of the lenses, bridge and pivoted finger levers, washers having an adjustable

locking connection on the pivots of said levers, and springs mounted upon said washers and coiled concentrically of the axis of the pivots and having their free ends engaging the finger levers.

1,347,073. PASTRY-FEEDING MECHANISM FOR PASTRY-CONE MACHINES. CHARLES F. BETZ, St. Louis, Mo. Filed July 10, 1919. Serial No. 309,852. 13 Claims. (Cl. 107—29.)

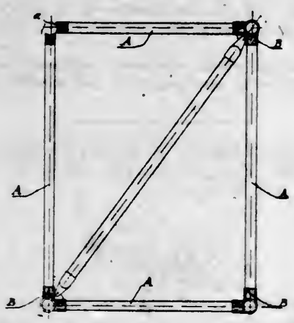


1. In a pastry baking machine, batter feeding means, and a cooling jacket therefor.

1,347,074. SUBSTITUTE FOR LINSEED-OIL AND PROCESS OF MAKING SAME. ROBERTO C. BONN, Managua, Nicaragua, assignor of one-half to Manuel A. Esteva, New York, N. Y. Filed Mar. 23, 1918. Serial No. 224,313. 16 Claims. (Cl. 134—56.)

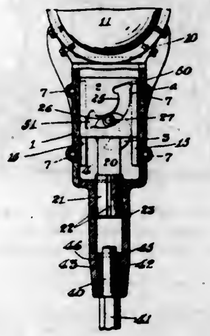
10. The process of producing a substitute for linseed oil, which includes mixing sixty parts kerosene oil with forty parts lubricating oil and mixing with that mixture ten parts of rosin; heating this mixture to boiling, continuing the boiling for approximately fifty minutes, agitating the mixture, adding thereto two and one-eighth parts of hydrate of manganese, causing the mixture to boil for about fifteen minutes, stirring the ingredients during the addition of the manganese, withdrawing the supernatant liquid from this mixture, adding thereto about one part of red-cod oil, and allowing the resultant mixture to rest for approximately twelve hours.

1,347,075. CONNECTION OF TUBES OF DISSIMILAR METALS. LOUIS BAUGUET, Velizy, France, assignor to Societe Anonyme Des Ateliers D'Aviation Louis Breguet, Velizy, Seine-et-Oise, France. Filed Nov. 2, 1918. Serial No. 260,904. 4 Claims. (Cl. 189—36.)



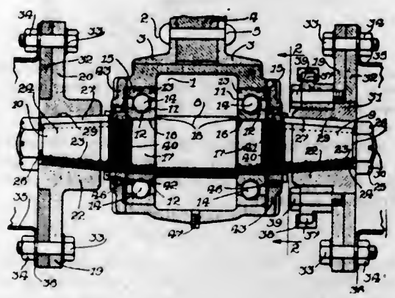
1. In a tubular structure comprising tubes and connecting pieces of dissimilar metals, the combination of a tube and connecting piece, the latter having a socket receiving the end of the former, and sulfur filling the space between their contiguous surfaces and serving as a dielectric to prevent electrolytic action.

1,347,076. POWER-TRANSMITTING MEANS. WILLIAM BUHL, Flushing, N. Y., assignor to Bulkrug Machine Corporation, a Corporation of New York. Filed Nov. 26, 1918. Serial No. 264,134. 10 Claims. (Cl. 255—37.)



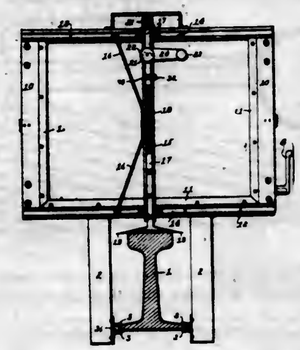
7. In a device of the character described, the combination of a motor driven crank, a tool, a cam actuated by the said crank to operate the said tool, said cam having a quadrantal cam slot proportioned to translate the rotary motion of the said crank into a reciprocating quick-return movement of the said cam member and the said cam contour having a part which is parallel to the path of motion of said tool whereby at the moment of impact of said tool the said crank is in released relation with respect to the said cam member, substantially as described.

1,347,077. CENTER-SUPPORT BEARING. OSCAR F. CARLSON, Chicago, Ill. Filed Nov. 6, 1918. Serial No. 261,329. 6 Claims. (Cl. 64—36.)



1. In a device of the kind described, a rotatable shaft, a shaft housing, a pair of anti-friction bearings rotatably mounting the shaft in the housing, each said bearing having an inner bearing ring carried on the shaft, the shaft having spaced shoulders for spacing the rings apart, a clamping ring threaded on the shaft adjacent to each bearing ring and adapted to clamp the rings against said shoulders, a longitudinal keyway in said shaft extending beyond each clamping ring, each clamping ring having a recess in its outer end registering with the adjacent keyway, a key in each keyway and entering the recess in its respective clamping ring, and means retaining said keys in their respective keyways.

1,347,078. RAIL-PROFILE INSTRUMENT. FRANK V. CARMAN, Oakland, Calif. Filed Sept. 16, 1919. Serial No. 324,122. 5 Claims. (Cl. 33—23.)



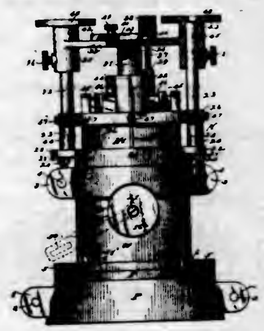
1. A rail profile-drawing instrument comprising a paper-holder; clamping members for securing said paper-holder to the rail in a plane perpendicular thereto; a horizontal guide at the top and bottom of said paper-holder; a slide member in each horizontal guide; a vertical guide connecting said slide members; a slide operating within said vertical guide; a stylus carried by the upper portion of said slide; and a finger secured to the lower portion of said slide and adapted to follow the surface of said rails.

1,347,079. FASTENING DEVICE FOR PHONOGRAPH-SPRINGS. GEORGE T. CHEAINGTON, Waukegan, Ill. Filed Oct. 5, 1918. Serial No. 257,016. 3 Claims. (Cl. 185—45.)



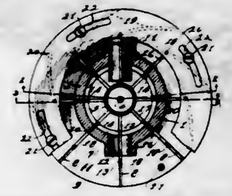
1. A fastening for phonograph springs comprising a headed pin fixedly mounted in a shaft, which engages the sides of an opening adjacent the end of the spring, said opening comprising a slot terminating in a circular opening at one end, the edge of said slot passing through the center of the circular opening.

1,347,080. ADJUSTABLE CORE-BOX. EDWARD W. CLARK, Los Angeles, Calif., assignor of one-half to Stanley S. Turner, Pasadena, Calif. Filed Oct. 31, 1918. Serial No. 261,426. 45 Claims. (Cl. 22—13.)



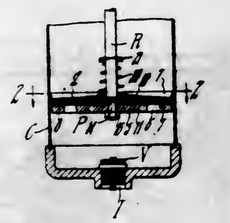
1. In a core box, a fixed body portion having members supported thereon for forming longitudinal recesses in the periphery of the core, and means supported on said body for extending the end portions thereof relative to said members.

1,347,081. CORE-BOX. EDWARD W. CLARK, Los Angeles, Calif., assignor of one-half to Stanley S. Turner, Pasadena, Calif. Filed June 30, 1919. Serial No. 309,230. 14 Claims. (Cl. 22—10.)



1. A core box having a body molding portion, and a plurality of peripheral recess forming elements movable radially through said body and into and from contact with the core for the purpose described.

1,347,082. PISTON. JOHN B. DAVIS, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Oct. 3, 1919. Serial No. 328,270. 6 Claims. (Cl. 103—63.)

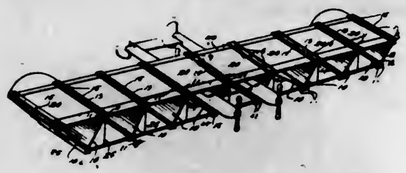


5. A piston, comprising, a circular body, a cupped piston packing applied face to face on the body with its circumferential portion extending away from the body, a circular member imposed face to face on said packing to prevent flexture of the face portion of the latter, communicating openings through said body, packing and member, a circular flexible valve member mounted face to face against the first-named member to close the openings therein, a piston rod by means of which said body, packing and both members are clamped together in face to face relation, a disk of dish-shaped cross section slidable on said rod and bearing against the valve member near its periphery, and yieldable means to force the disk against the valve member, the latter being greater in diameter than the interior of the circumferential portion of the piston packing to fit within the latter in slightly cupped form.

1,347,083. PROCESS OF PRODUCING MERCURO-AMINO COMBINATIONS. ARON ECKMANN, Berne, Switzerland, assignor to Schweiz. Serum- und -Impfinstitut, Berne, Switzerland, a Corporation of Switzerland. Filed June 29, 1917. Serial No. 177,720. 1 Claim. (Cl. 23—24.)

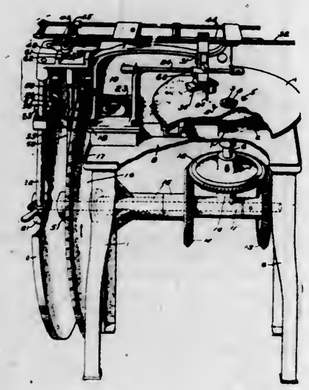
Process of producing mercurous-amino combinations and the complex salts thereof which consists in subjecting 1-phenyl-2.3 dimethyl-4-sulfamino-5-pyrazolon to the action of at least one molecular proportion of a mercurous salt.

1,347,084. AIRPLANE. THOMAS L. EGGLESTON, Washington, D. C., assignor to Eggleston Air-Cell Aeroplane Company, a Corporation of Delaware. Filed July 9, 1918, Serial No. 244,045. Renewed Oct. 9, 1919. Serial No. 329,632. 4 Claims. (Cl. 244—31.)



1. The hereindescribed structure for airplanes and for other purposes, comprising units or sections adapted to be arranged in oblique supporting relation one to the other and having end portions to overlap the end portions of the contiguous unit or section, transversely arranged bars disposed within the spaces between the said units or sections and their overlapping portions, and means for securing the said bars to lock the parts together.

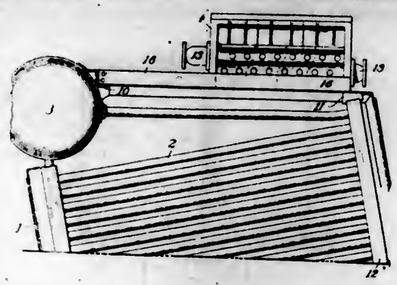
1,347,085. CAM-PATH-GENERATING MACHINE. EDWARD E. FOSTER, Beverly, Mass. Filed Oct. 24, 1913. Serial No. 797,078. 13 Claims. (Cl. 33—27.)



1. A cam path generating machine, having, in combination, a leader support, a tool, and means for generating a cam path upon the leader comprising mechanism for rotating the leader, mechanism for reciprocating the tool, while the leader is being rotated and mechanism for constraining the tool to reciprocate radially of the leader, substantially as described.

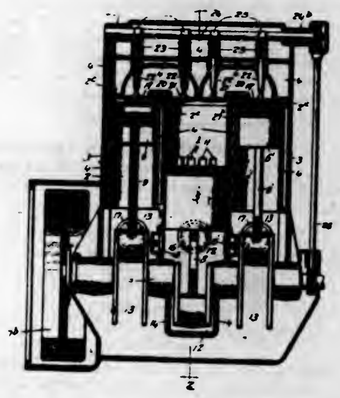
1,347,086. SUPERHEATER. ERNEST H. FOSTER, Dongan Hills, N. Y., assignor to Power Specialty Company, New York, N. Y., a Corporation of New York. Filed Jan. 16, 1919. Serial No. 271,366. 2 Claims. (Cl. 122—478.)

1. In a cross drum water tube boiler, the combination with main horizontal beams supported at one end upon the steam and water drum, and at the other end upon the upper headers of the boiler tubes, of upper beams and vertical supports therefor resting on the said main



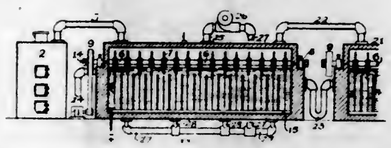
horizontal beams, a superheater suspended from the said upper beams and a casing inclosing the superheater as set forth.

1,347,087. COMPOUND QUICK-COMBUSTION ENGINE. WALDO G. GERNANDT, Chicago, Ill. Filed Dec. 16, 1918. Serial No. 266,911. 9 Claims. (Cl. 60—15.)



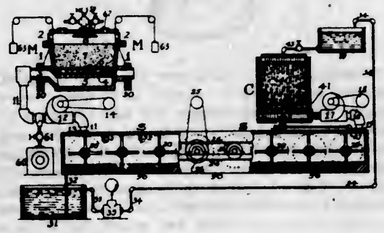
1. In a quick combustion engine, a two cycle cylinder and a piston therefor, and a plurality of four cycle cylinders and pistons therefor in combination with means to direct, on the combined inspiration and compression travel of the said two cycle piston, the contents of said two cycle cylinder into said four cycle cylinders on the respective inspiration travel of said four cycle pistons, said means also arranged to direct the flow of products of combustion in said four cycle cylinders, on the exhaust travel of the pistons thereof, into said two cycle cylinder on the power travel of said two cycle piston, and an exhaust to said two cycle cylinder to direct products therein to waste.

1,347,088. ELECTROLYTIC APPARATUS. WILLIAM E. GREENAWALT, Denver, Colo. Filed Feb. 1, 1917. Serial No. 145,884. 31 Claims. (Cl. 204—5.)



9. In electrolytic apparatus, a chamber having a gas inlet and a gas outlet and adapted to contain a liquid and to confine a gas over the liquid, means for flowing a gas from the gas inlet to the gas outlet, means for taking the gas from above the liquid and forcing it through the liquid, and means for passing an electric current through the liquid.

1,347,089. APPARATUS FOR TREATING LIQUIDS WITH GASES. WILLIAM E. GREENAWALT, Denver, Colo. Filed Mar. 25, 1915, Serial No. 16,962. Renewed Feb. 27, 1920. Serial No. 361,723. 26 Claims. (Cl. 204—1.)



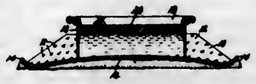
3. In apparatus for treating liquids with gases, a stationary chamber having a gas inlet and a gas outlet and a liquid inlet and a liquid outlet and adapted to contain a liquid and to confine a gas over the liquid, means operating within said chamber for submerging some of the gas in the liquid, and electrical means for causing a chemical reaction between the liquid and the gas.

1,347,090. PEN AND PENCIL CLIP. GEORGE F. HAHN, New York, N. Y. Filed Mar. 26, 1920. Serial No. 368,823. 5 Claims. (Cl. 24—11.)



2. A pen or pencil clip embodying a holder adapted to be mounted on a pen or pencil, a star wheel supported by said holder and adapted to engage with the exterior of the pocket, when the pen or pencil is positioned within the pocket and manually operable means for normally locking the star wheel against rotation, whereby the pen or pencil is normally maintained in the pocket by the positive grip of the star wheel on the fabric of the garment.

1,347,091. VEGETABLE-PEELER. JOHN H. HAMLIN, New York, N. Y. Filed May 21, 1919. Serial No. 298,585. 4 Claims. (Cl. 146—15.)



1. The herein described potato peeling device comprising a body of rigid abrasive material having a plastic and gritty sharp and abrasive surface, an edge of the body serving as a cutting device for removing the eyes of the potatoes.

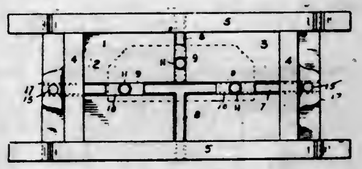
1,347,092. EMERGENCY LAUNCHING SYSTEM FOR TORPEDOES. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed June 1, 1916, Serial No. 101,107. Renewed Oct. 9, 1919. Serial No. 329,648. 14 Claims. (Cl. 114—18.)

1. A marine vessel having a support adapted to receive a torpedo, and in combination with said support, torpedo launching means, and means including a normally open electric circuit, including spaced conducting



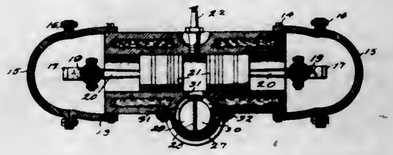
plates capable of closing said circuit when they are pierced by a discharged projectile to render said torpedo launching means active for the launching of the torpedo.

1,347,093. MOLDING APPARATUS. HARRY S. HANSTINE, Ambridge, Pa., assignor of one-half to Frank Hallam, Fair Oaks, Pa. Filed Mar. 6, 1920. Serial No. 363,811. 1 Claim. (Cl. 22—157.)



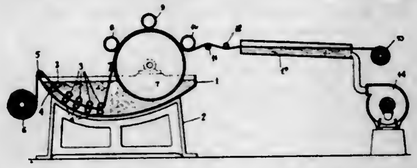
In a molding apparatus a match board provided with intersecting grooves, and a plurality of alining and retaining elements removably mounted in said grooves and each comprising a body portion and a pin.

1,347,094. INTERNAL-COMBUSTION ENGINE. SILAS E. HARLAND, Ocean View, Va. Filed June 10, 1919. Serial No. 303,015. 3 Claims. (Cl. 123—54.)



1. The combination with an internal combustion engine, of the opposed piston type having the usual intake and exhaust ports, of a power shaft driven by said engine having an enlarged portion provided with a central cavity, a wall dividing said cavity into compartments, ports formed in one of said compartments coöperating with the intake ports of the engine and ports in the other of said compartments communicating with the exhaust ports thereof.

1,347,095. WATERPROOF FABRIC AND PROCESS FOR PRODUCING THE SAME. ARTHUR B. HARRISON, New York, N. Y. Filed May 17, 1915. Serial No. 28,536. 11 Claims. (Cl. 91—70.)

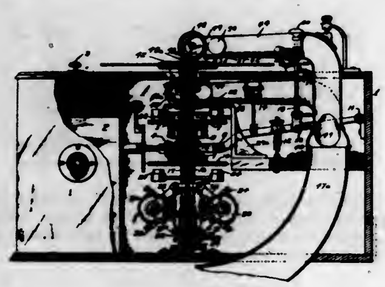


1. As a new article of manufacture, a woven cotton fabric coated and impregnated at a temperature below

that injurious to the cotton fabric with a hot fluid bitumen ductile at all ordinary temperatures and substantially free from bitumen solvents and fluxes, said coated and impregnated fabric being flexible at all ordinary temperatures.

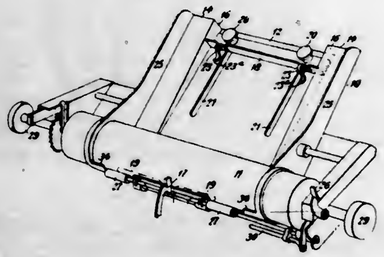
9. The process of coating and impregnating fabrics which comprises passing the fabric through a molten mass of asphaltic bitumen melting at about 175 to 200° F. maintained at a temperature below about 250° F. and successively subjecting the fabric to compresison between heated rolls and to contact with the bitumen, subjecting the fabric after immersion to further compression between a drum heated to about 250° F., and a series of coacting rolls, and cooling the fabric.

1,347,096. AUTOMATIC PHONOGRAPH. CHARLES M. HECK, Raleigh, N. C. Filed May 20, 1915. Serial No. 29,422. 41 Claims. (Cl. 274—10.)



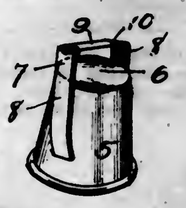
1. The combination with a sound reproducing mechanism having a stylus and a record, of means controlled by the speed of said record for maintaining contact between said record and stylus.

1,347,097. TYPEWRITING-MACHINE. CHARLES M. HILSER, Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 13, 1917. Serial No. 206,903. 31 Claims. (Cl. 197—140.)



1. The combination with a revoluble platen, of sheet-collating means at the introductory side thereof comprising side gaging means for guiding a narrow outer work-sheet, an end-gage comprising a stop against which the trailing end of said sheet may be backed to gage the same, sheet-holding means to receive said sheet-end when thus backed into engagement with said end-gage and to yieldingly retain the same in place when gaged, and separate means for guiding a wider record-sheet to a position between the platen and the work-sheet, said last-mentioned means comprising a chute open at the side facing the platen to admit access by the fingers of the typist to the trailing end of said record-sheet after it has been caused to closely approach the platen.

1,347,098. STEM-CLIPPING DEVICE FOR FRUIT AND VEGETABLE PICKERS. WILLIAM A. J. HOISINGTON, Dallas, Oreg. Filed Jan. 5, 1920. Serial No. 349,560. 3 Claims. (Cl. 30—24.)



1. A device of the character described comprising a thimble-like body portion adapted to fit upon the end of the finger, a U shaped member the legs of which are secured to the opposite sides of the body portion and the transverse connecting portion of which extends across the end of the body portion and lies in spaced relation thereto to such an extent as to permit the passage of the stem of a fruit therebetween, said transverse connecting portion comprising a flat bar, which lies at an angle to the end of the body portion, that edge of said bar which lies farthest from the body portion being sharpened to form a cutting edge.

1,347,099. HOBBY-CYCLE. WILLIS E. HOWES, Rock Island, Ill., assignor of one-fourth to B. & D. Manufacturing Company, Rock Island, Ill., and one-fourth to Harry E. Winters, Davenport, Iowa. Filed July 19, 1919. Serial No. 312,013. 4 Claims. (Cl. 208—165.)

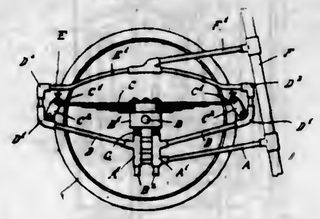


1. In a hobby-cycle toy, the combination with a frame skeleton in form provided with forward and rear supporting wheels, of a drive axle mounted in bearings of the rear of the frame, and on which the rear supporting wheels are fixed, an oscillatory seat pivotally mounted between the upper portions of the sides of the frame and having a front head piece which is provided with downwardly depending arms, an operative connection connected to the lower ends of the arms and having a ratchet drive connection with the drive axle, for transmitting power from the oscillatory seat to the drive axle, said ratchet drive connection comprising a flanged disk, the flange of which having ratchet teeth, the disk being loosely mounted upon the axle, an arm fixed to the axle, and provided with a spring tensioned pivoted dog to slip by the teeth when the disk is moved in one direction and to bite between the teeth when the disk is rotated in the opposite direction.

1,347,100. REAR-SPRINGING DEVICE FOR MOTORCYCLES OR TRICARS. EVAN HENRY JENKINS, Abertillery, England. Filed Aug. 11, 1919. Serial No. 316,857. 2 Claims. (Cl. 208—101.)

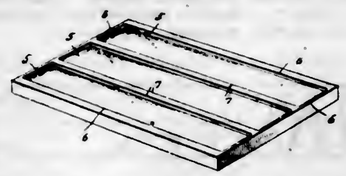
1. In the herein described rear-springing device for motorcycles and tricars, the combination, with the main frame and chain stays of the cycle, of vertically disposed

guide pieces secured to the chain stays, guide rods and guide members guided and carried by the said guide pieces and adapted to support the ends of the road wheel spindle of the cycle, arms united to the guide pieces and extending forwardly and rearwardly beyond the periphery



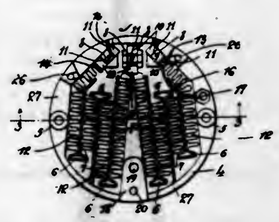
of the road wheel, an arched frame member connecting the ends of the said arms, shackles attached near the outer end of each of the arms, and leaf springs which bear upon the aforesaid guide members and are connected at their extremities to the said shackles, all substantially as and for the purpose set forth.

1,347,101. ENGRAVING-PLATE HOLDER. JAMES W. JENNER, Louisville, Ky. Filed May 29, 1920. Serial No. 385,097. 3 Claims. (Cl. 101—382.)



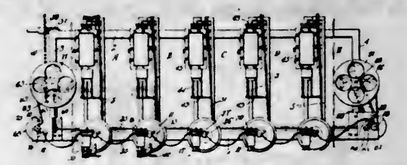
1. An engraving-plate holder, comprising a hard block of material having a recess in one side to provide vertical retaining walls, said recess being of a depth slightly greater than the thickness of the plate to be printed from, and of a width equal to the width of said plate, whereby when the plate is positioned in the holder it is held rigidly between the vertical walls and flush with the upper surfaces thereof.

1,347,102. RESISTANCE DEVICE. LEONARD KEBLER, Bronxville, N. Y., assignor to Ward Leonard Electric Co., a Corporation of New York. Filed Oct. 23, 1915. Serial No. 57,402. 7 Claims. (Cl. 219—64.)



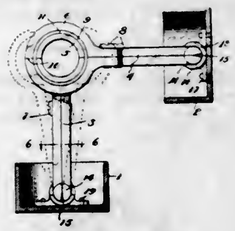
1. In a resistance device, an insulating base plate, a resistive conductor on and contacting with said plate, contact terminals on said plate, said plate having projecting portions for positioning said conductor and said terminals, and an insulating coating embedding said conductor and overlying portions of said contact terminals.

1,347,103. PANORAMIC-MOTION-PICTURE APPARATUS. THOMAS A. KILLMAN, Nashville, Tenn., assignor to International Moving Picture and Film Company, Nashville, Tenn., a Corporation of Tennessee. Filed May 6, 1916. Serial No. 95,904. 5 Claims. (Cl. 88—16.6.)



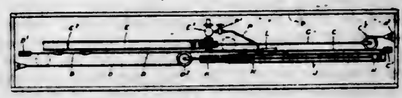
1. In panoramic motion picture apparatus, a plurality of lens sets, means whereby the sets may be relatively angularly adjusted, and means for feeding a single strip of film past all of the lens sets collectively.

1,347,104. CONNECTING-ROD. JULIUS KINDERVATER, Closter, N. J. Filed May 3, 1919. Serial No. 294,415. 6 Claims. (Cl. 74—17.)



1. The combination with a piston, of a connecting rod provided at one end with a cylindric portion extending transversely of the rod and forming an integral journal, and means for connecting such cylindric portion to the piston, such means comprising a pair of independent one piece yokes secured to the piston, each yoke completely encircling said cylindrical portion.

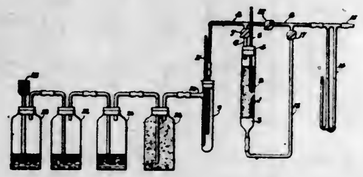
1,347,105. AIRPLANE-LAUNCHING APPARATUS. LOUIS JOHN LE MESURIER, Newcastle-upon-Tyne, England, assignor of one-half to Sir W. G. Armstrong Whitworth & Company Limited, Newcastle-upon-Tyne, England. Filed May 5, 1920. Serial No. 379,120. 10 Claims. (Cl. 244—2.)



8. In apparatus for launching an air plane from a restricted area, the combination of a track, a carriage adapted to travel thereon, a cylinder having exhaust ports, a piston therein adapted to impart acceleration to the carriage, a flexible connection between said piston and the carriage, a second cylinder having exhaust ports, a retarding piston therein, a flexible connection between said retarding piston and the carriage and valve mechanism between the two cylinders whereby the exhaust ports of the

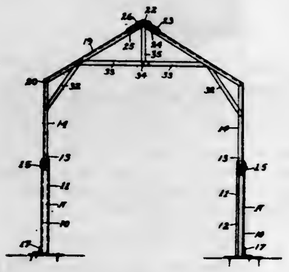
retarding cylinder are automatically opened during acceleration and similarly closed during retardation and return when the exhaust ports of the accelerating cylinder open.

1,347,106. METHOD AND APPARATUS FOR DETERMINATION OF MOISTURE IN SOLID MATERIALS. LAWRENCE E. MCALLISTER, Bellaire, Ohio. Filed May 8, 1919. Serial No. 295,648. 3 Claims. (Cl. 73—24.)



1. Apparatus for determination of the moisture content of solid material, comprising, in series, means for drying air and determining the temperature of said dry air, means for containing a sample of the material under observation in such fashion as to permit passage of air through the sample, means for determining the change in temperature of the sample, means for determining the rate of flow of air through the apparatus, and means for producing such flow.

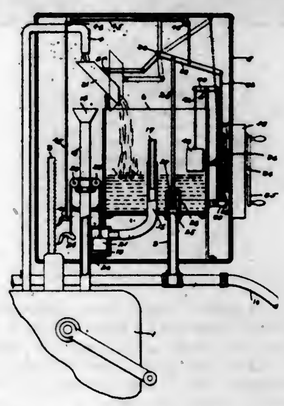
1,347,107. COLLAPSIBLE TENT-FRAME. JOSEPH L. MCCANN, JOHN P. MCCANN, and JAMES MCCANN, Bridgeport, Conn. Filed Apr. 9, 1920. Serial No. 372,562. 4 Claims. (Cl. 135—4.)



3. A collapsible supporting frame for tents comprising a series of foldable sections adapted to be connected together including posts formed of a bottom channel section having ways in its opposite portions, a smaller channel piece adjustably connected to the lower section and adapted to slide into the bottom section, a rafter the lower end of which is hinged to the upper post section and the upper end to the end of the abutting rafter, adjustable braces hinged to the said posts and extending to the ground, and adjustable ridge pieces for rigidly connecting the top ends of the rafters.

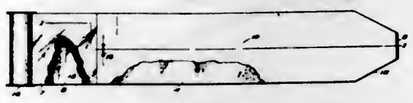
1,347,108. LIQUID-DISPENSING MACHINE. CHARLES O. MCCASLAND, St. Louis, Mo. Filed Oct. 10, 1919. Serial No. 329,674. 8 Claims. (Cl. 221—100.)

1. In a liquid dispensing device, the combination of a plurality of measuring tanks of different capacity, a discharge common to said tanks, a pump common to all of said tanks, conduits from said pump to said tanks, normally out of the path of flow of liquid from the pump, and means to select and move one of said conduits into



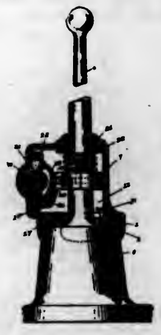
the path of the flow of the liquid from the pump and over a predetermined tank.

1,347,109. FILM-CARTRIDGE. ARTHUR W. MCCURDY, Victoria, British Columbia, Canada. Filed Apr. 26, 1917, Serial No. 164,693. Renewed Nov. 18, 1919. Serial No. 338,807. 9 Claims. (Cl. 95—9.)



1. A film cartridge comprising in combination a strip of film; a protecting strip longer than said film strip; an extension strip of substantial length connected to said protecting strip; a fastener connecting one end of said film strip to said extension strip; and a spool on which said film and strips are wound together.

1,347,110. GEAR-SHIFT LOCK. ARTHUR E. MCDONALD, San Francisco, Calif. Filed Sept. 27, 1919. Serial No. 327,350. 4 Claims. (Cl. 70—128.)



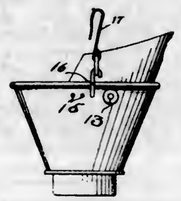
1. In a lock, the combination of a gear shift lever, a fixed part supporting said lever, a collar surrounding said lever and attached thereto at a point near said fixed support, a spring surrounding said lever and abutting said collar, a movable casing surrounding a portion of said lever adjacent said support, said casing also surrounding said collar and said spring, a bushing carried by said casing and contacting with said spring, a ring attached to said casing and adapted to engage said support when said casing is forced downward against the tension of said spring, and means for holding said ring against said support and against the tension of said spring.

1,347,111. ROD-JOINT. JOHN F. MARSHALL, Ashland, Wis. Filed July 9, 1919. Serial No. 309,661. 3 Claims. (Cl. 287—111.)



1. In a device as set forth, the combination with a body member having on one edge a longitudinally extending groove semi-circular in cross-section, for the reception of a rod, said body having opposite yieldable parts provided with lateral yieldable flanges, of tapered clamps semi-circular in cross-section to fit the rod and provided with overlying grooved flanges, to coöperatively receive the flanges of the body member, the end portion of the body member having opposing yieldable parts, which are drawn toward each other and in contact with the rod, as the clamps are moved into engagement with the body member, the ends of the opposing yieldable parts having an arched strip integrally connecting said parts.

1,347,112. KITCHEN UTENSIL. LEO J. MERFELD, Cascade, Iowa. Filed Jan. 10, 1918. Serial No. 211,211. 1 Claim. (Cl. 221—23.)



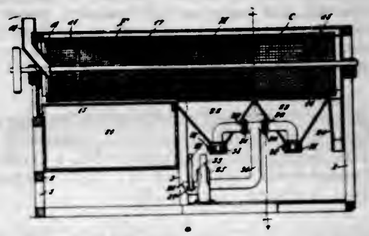
The herein described kitchen utensil for use as set forth, the same comprising a body flaring from its lower to its upped end, a flaring flange rising above the upper end and extending substantially half way around the same, links connected with the body at points substantially coincident with the ends of said flange, and spring clasps whose bends stand in alinement and in a plane through said links, each clasp having one leg connected with one of the links.

1,347,113. TURNTABLE FOR PHONOGRAPHS. JOSEPH G. MERRIAM, Meriden, Conn., assignor to J. G. Merriam Company, Meriden, Conn., a Firm composed of J. G. Merriam, A. W. Foster, and E. A. Merriam. Filed June 22, 1917. Serial No. 176,256. 2 Claims. (Cl. 274—39.)



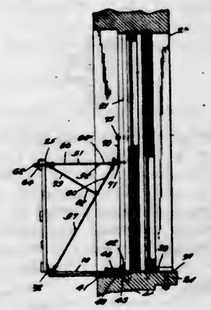
1. A turn-table for phonographs embodying a relatively thin, circular, cast plate provided with a centrally disposed hub and having a relatively deep, narrow, faced flange depending from the outer circumference thereof, and a peening flange of less depth but greater width than the face of the circumferential flange also depending from the under side of the plate in a position directly adjacent the circumferential flange.

1,347,114. GRITS-SEPARATING MACHINE. JAMES DUDLEY MOORE, North Wilkesboro, N. C. Filed Apr. 27, 1917. Serial No. 165,003. 1 Claim. (Cl. 130—16.)



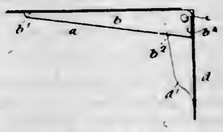
In a grits separating machine the combination with a hopper having a tubular outlet in the bottom thereof, there being a longitudinal slot in the wall of said outlet, of a baffle ring slidably mounted in the tubular outlet, means extending therefrom and within the slot for holding the ring against sliding movement, a suction fan, and a valved pipe extending to the inlet of the fan, said pipe having its inlet end above, and concentric with the axis of the baffle ring, said ring being adjustable bodily toward and from the pipe.

1,347,115. FOLDABLE WINDOW-SEAT. JOSEPH MORELLI, Brooklyn, N. Y. Filed July 29, 1918. Serial No. 247,222. 2 Claims. (Cl. 304—24.)



1. In combination with a window seat including a seat member having a pair of spaced pins protruding from the forward edge thereof, a pair of supporting bars for said seat member, each embodying a rearwardly projecting straight body part adapted to be secured to a window-sill and having a hook at its forward end, a vertical arm rigid with and depending from said body part and having an aperture therethrough, and a forwardly extending longitudinal arm projecting from the bottom edge of said vertical arm and upon which said seat member rests, said pins each projecting into the aperture of one of said vertical arms, and hooks carried by the seat member adjacent said pins and adapted to engage the hooks of the supporting bars to retain said seat member against displacement from the window-sill.

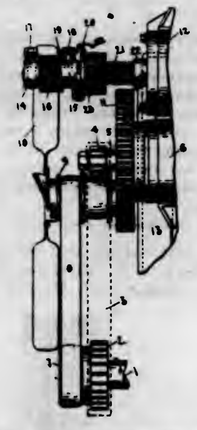
1,347,116. BRACKET FOR SHELVING AND THE LIKE. JOHN HENRY MORGAN, Kent, England. Filed Dec. 26, 1919. Serial No. 347,548. 4 Claims. (Cl. 248—18.)



1. A bracket comprising a flanged supporting arm and a flanged attaching arm pivotally connected thereto near

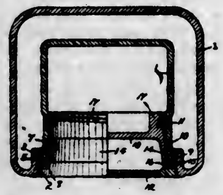
the inner ends of the arms, the supporting arm being provided with extending flange portions for engaging adjacent flange faces of the attaching arm to sustain the strain upon the supporting arm, and means engaging said flange portion and engaging said adjacent flange faces for retaining the flange portions and flange faces in engagement, and for securing the arms to a plane surface in operative relation to each other.

1,347,117. POWER-TRANSMISSION MECHANISM. WILLIAM B. MOSES, Brookline, Mass., assignor to Gray & Davis, Incorporated, Cambridge, Mass., a Corporation of Massachusetts. Filed Feb. 23, 1917. Serial No. 150,294. 4 Claims. (Cl. 74—7.)



1. Apparatus of the character described, comprising a driven member, a driving member normally disengaged from the driven member, a motor, rotary means actuated by the motor to cause the engagement of the driving and driven members, and a stop carried by said rotary means adapted to prevent accidental engagement of said members when the motor is not running, and adapted to be moved to inoperative position by centrifugal force when the motor is running.

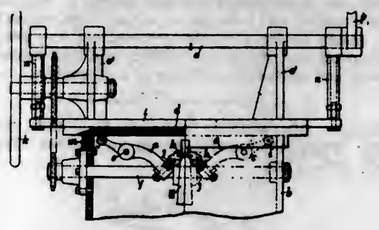
1,347,118. SAFE. MOSES MOSLER, New York, N. Y., and CARL BARTELS, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Filed Sept. 22, 1919. Serial No. 325,579. 7 Claims. (Cl. 109—1.)



1. A shell provided with a door opening and a rearward prolongation at the margin of said opening, an inner compartment having a wall adapted to pass through said opening, means for securing the front portion of said wall within said rearward prolongation, and a door having a periphery fitting partly within said opening in the shell and partly within the front portion of said wall.

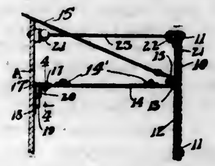
1,347,119. FOUNDRY MOLDING-MACHINE. WILLIAM MARTIN O'KEEFE, Birmingham, England. Filed Aug. 11, 1919. Serial No. 316,848. 4 Claims. (Cl. 22—45.)

1. In foundry molding machines, the combination with a body, a movable plate supported on the body and arranged to carry a molding box and pattern, levers pivoted on the body with ends adjacent and the outer ends located beneath the plate, and a rotary wedge like cam adapted during a part of its rotation to act on the adjacent ends



of the levers for raising the outer ends with the plate, the levers and plate being permitted to return by free falling of the plate when released by the cam, substantially as described.

1,347,120. SHIP-PROTECTOR. JOHN PABICH, Mount Carmel, Pa. Filed Jan. 9, 1919. Serial No. 270,308. 3 Claims. (Cl. 114—240.)



1. In a ship protector, the combination with a shield section and its supporting frame, and a pair of loops adapted to be attached to the hull; of a pair of arms hinged at their outer ends to said frame, a hinge having one leaf connected with the inner end of each arm, a tongue attached to the other leaf and adapted to be dropped into said loop, a right angular stop having one leaf secured beneath the arm and the other engaging said loop when the arm stands horizontal, rods pivotally connecting the frame and hull, and means for raising the frame.

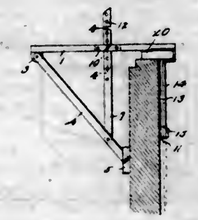
1,347,121. CANVAS-ADJUSTER. OSCAR J. RICE, Libby, Mont. Filed Dec. 19, 1919. Serial No. 345,057. 1 Claim. (Cl. 64—52.)



In a device of the class described, spaced supporting members, spaced upper and lower guides carried by each of said members, a member assembled with each of said supporting members and comprising a head and spaced arms extending therefrom, the said arms slidably engaging the upper and lower guides upon the said supporting member, a roller journaled between the heads of the second-mentioned members, one arm of each of said second-mentioned members being of rack formation, a shaft journaled in the supporting members, and pinions carried by the said shaft meshing with the said racks.

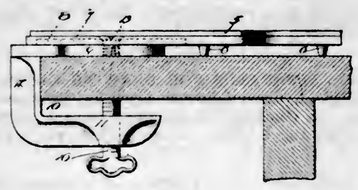
1,347,122. WINDOW-SEAT. PHILLIP L. RILEY, Blairsville, Pa. Filed Feb. 19, 1920. Serial No. 360,012. 2 Claims. (Cl. 304—27.)

1. A window seat of the class described comprising a platform, a pair of window-sill engaging legs fixedly attached to one transverse edge of said platform, swinging legs pivotally attached to the other transverse edge of



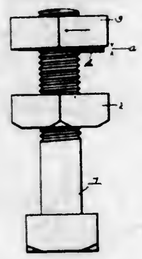
said platform, said swinging legs provided with feet pivotally carried on free terminals, and means for holding said swinging legs in any desired position.

1,347,123. FLATIRON-HOLDER. AARON L. MANN, Grand Rapids, Mich. Filed Feb. 12, 1919. Serial No. 276,650. 1 Claim. (Cl. 68—27.)



In a flat iron holder, the combination of a flat iron rest provided on its under side with a plurality of short legs for contact with the surface of a table or the like, the rest being provided on its under face near one end with an annularly disposed row of teeth countersunk within said surface, a bracket member having a flat surface for contacting the under surface of the rest and an upstanding tooth adapted to interlock with a selected depression between two teeth in the countersunk row on the rest, a screw freely entered through the rest and having its head countersunk within and exposed through the upper surface thereof for facilitating adjustment, the lower end of the screw being threaded into the upper jaw member in concentric relation to the row of annularly disposed countersunk teeth on the rest, and adapted when tightened to hold the rest in clamped relation to the jaw, substantially as described.

1,347,124. LOCK-NUT. JOHN R. SCHRADER, New York, N. Y., assignor to Dieter Nut Company, New York, N. Y., a Corporation of New York. Filed Apr. 17, 1919. Serial No. 290,768. 2 Claims. (Cl. 151—20.)



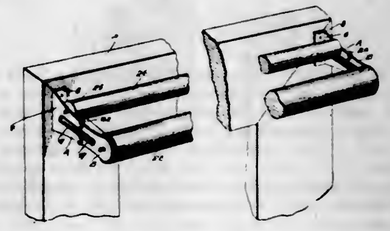
1. A lock nut of the character described, having its entire face shaped as a helical surface, of the same pitch as the thread.

1,347,125. PROJECTILE FOR BOMB-THROWERS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Feb. 28, 1919. Serial No. 279,877. 6 Claims. (Cl. 102—29.)



4. A bomb-thrower having a barrel to receive the propelling charge and a muzzle on the barrel having a tubular extension, in combination with a projectile comprising a fusiform casing to contain the bursting charge, a tube inserted in the casing to form therein an axial chamber separated from the bursting charge and adapted to receive the thrower-barrel preliminary to a discharge, and a hollow block to be inserted in the axial chamber in advance of the barrel, said block being open at its front into the axial chamber and having in its rear a vent for the insertion of the tubular extension of the muzzle so that the discharge gases from the barrel will pass into the axial chamber in front of the block, said block at the discharge sliding to the rear of the axial chamber at the recession of the barrel therefrom to partially confine in such chamber the gases from the discharge explosion, the confined gases gradually escaping through the vent in the rear of the block to aid in the propulsion of the projectile after the latter leaves the bomb-thrower.

1,347,126. COMBINED CURTAIN-POLE AND WINDOW-SHADE BRACKET. ELLA R. SELL, Spokane, Wash. Filed Nov. 10, 1919. Serial No. 336,823. 3 Claims. (Cl. 156—24.)

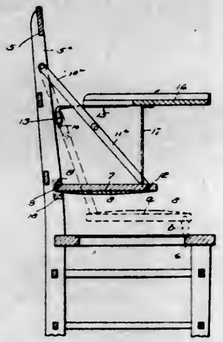


3. In a curtain pole support, the combination with a pair of brackets, each bracket including a body portion and an extension connected thereto for outwardly swinging movements, and a yieldable means connecting the body portion and the extension of each bracket for normally holding said extension against outward movement.

1,347,127. CONVERTIBLE CHAIR. SIDNEY SINGLETERRY, Dallas, Oreg. Filed Jan. 28, 1920. Serial No. 354,686. 1 Claim. (Cl. 155—132.)

A device of the character described comprising in combination with an ordinary dining chair a section having one of its faces upholstered, said sections being detachably hinged at its lower corners to the side posts of the back of the chair and being adapted to swing from a position where it lies substantially vertically between the side posts of the chair to a position where it lies substantially horizontal, links pivotally connected to each other and to the side posts of the chair and to the said section at a point upon the edges of said section remote from the hinge connections thereof, said links serving when the said section is thrown downwardly upon its hinge connections to support said section horizontally at one level

above the seat proper of the chair and serving when said section is disconnected from said hinge connections



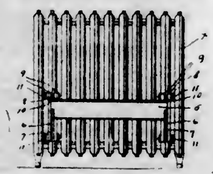
and swung over upon the pivotal connections of the links therewith to support said section at a lower level but above the seat proper of the chair.

1,347,128. DEMOUNTABLE-RIM-FASTENING MEANS. DAVID LAWRENCE SPERO, Brownsville, Tex. Filed Oct. 22, 1919. Serial No. 332,442. 8 Claims. (Cl. 301—20.)



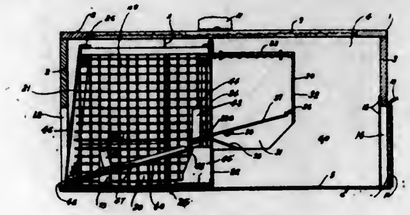
1. A device of the class described including a bolt adapted to engage and extend transversely of the felly of the wheel with portions projecting from opposite sides of the felly, a rim-engaging member on one end portion of the bolt, a lever, connections leading from opposite end portions of the bolt, the lever being pivotally connected with said connections and adapted to be swung in one direction to clamp the rim-engaging part in rim-holding position.

1,347,129. FOOTREST FOR RADIATORS. CLYDE R. SQUIRES, Baylor, Mont. Filed Oct. 23, 1918. Serial No. 259,356. 2 Claims. (Cl. 155—168.)



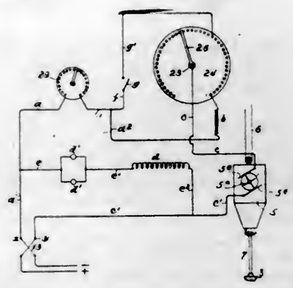
1. In a foot rest for radiators, the combination with a pair of clips adapted to embrace one coil of the radiator and a like pair adapted to embrace another coil, the arms of each clip being connected by a cross bolt, and upright angle bars mounted on the bolts of each pair and spaced to form a guide; of a U-shaped frame whose limbs have heads slidable vertically in said guides, and braces pivoted at their upper end to the frame and at their lower ends on the lower bolts.

1,347,130. TRAP. JOSEPH W. STEVENSON, Baltimore, Md. Filed Apr. 19, 1920. Serial No. 374,946. 3 Claims. (Cl. 43—67.)



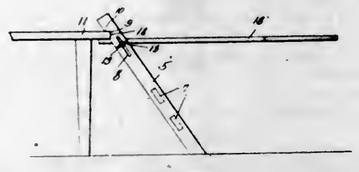
1. In a device of the class described, a box-like cage having transverse walls defining bait compartments, the cage having a doorway whereby an animal may enter the cage, have free access to the compartments and leave the cage; and a trapping mechanism comprising a doorway coöperating with the doorway of the cage, and means for preventing an animal from leaving the casing and the cage through the doorways, the casing being removably mounted between the walls and having foraminous sides rendering the bait compartments visible but preventing access thereto.

1,347,131. APPARATUS FOR DRAWING GLASS CYLINDERS. LAURENCE EDWIN STEWART, Bradford, Pa., assignor to Consolidated Machine Company, Bradford, Pa. Filed Aug. 8, 1919. Serial No. 316,148. 4 Claims. (Cl. 49—17.1.)



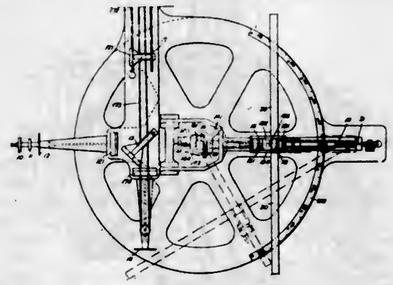
1. The combination with hoisting means, a fan and an electric motor for the fan, of an electric circuit including said motor, a rheostat operable automatically by the hoisting means, a manually operable rheostat, said rheostats being included in series in the motor circuit, and a switch for excluding a portion of the resistance elements of one of said rheostats from the motor circuit.

1,347,132. IRONING-BOARD. DEWEY TROUTMAN, Hawarden, Iowa. Filed Mar. 31, 1920. Serial No. 370,223. 1 Claim. (Cl. 68—10.)



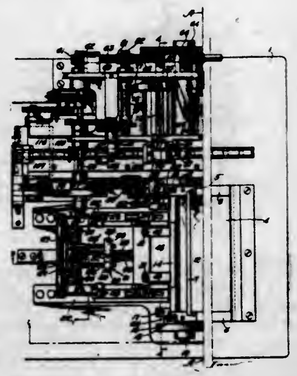
In an ironing board, a supporting member comprising side rails having notches in their edges to form shoulders for engaging the top and edge of a table top, the said side rails having slots extending longitudinally and terminating below the said notches, a rod adjustable in the said slots, the said rod having threaded ends projecting through the slots, clamping members threaded on the said rod and bearing against the rails, members on the said rod for holding the rails in spaced relation to each other, and an ironing board having a portion overlying the said rod and adapted to project under a table top whereby the said board is wedged between the said table top and the said rod.

1,347,133. APPARATUS FOR TESTING LENSES. FRANK TWYMAN, London, England, assignor to Adam Hilger, Limited, London, England. Original application filed Feb. 4, 1919, Serial No. 274,843. Divided and this application filed Apr. 23, 1919. Serial No. 292,042. 5 Claims. (Cl. 88—56.)



1. An apparatus for testing a lens comprising a plane parallel glass plate partially silvered and adapted to reflect part of a beam of light and to transmit a part, two mirrors adapted to reflect the light back to the plate and mounted so that their distances from the plate can be varied, a carriage adapted to adjustably receive the lens to be tested and maintain the same in the path of light to and from one of said mirrors, means for moving the lens on the carriage both along and at right angles to its optical axis and means for turning the carriage about an axis at right angles to the optical axis of the lens.

1,347,134. SHEET FEEDING AND CUTTING MECHANISM. JAMES N. TZIBIDES, New York, N. Y., and RILEY HERBERT PARKER, Winthrop, Mass.; said Parker assignor to said Tzibides. Original application filed Feb. 19, 1915, Serial No. 9,232. Divided and this application filed Mar. 2, 1918. Serial No. 219,974. 17 Claims. (Cl. 164—48.)



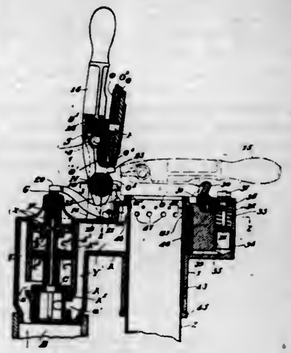
1. In a machine of the character described, the combination of a sheet magazine, spacers for holding the sheets in spaced relationship at the delivery end of the magazine, grippers for seizing the spaced end of a sheet, and means for actuating the grippers to draw a sheet from the magazine.

1,347,135. MUSIC-LEAF CLIP. PETER VAN VALKENBURG, Otterville, Ontario, Canada. Filed Apr. 1, 1919. Serial No. 286,810. 2 Claims. (Cl. 24—252.)



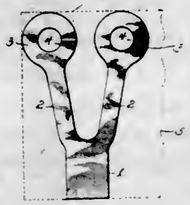
1. A music leaf turner including a pair of spring pressed jaws adapted for engaging a sheet of music, the rear end portions of said jaws being provided with tabs extended outwardly at acute angles to provide manipulating portions, said manipulating portions being extended over the edges of the adjacent sheets of music whereby the same may be readily engaged by the fingers.

1,347,136. TERMINAL FOR PNEUMATIC-DESPATCH-TUBE SYSTEMS. ALEXANDER WATSON, Atlantic, Mass., assignor of one-half to William G. Mitchell, Malden, Mass. Filed Nov. 7, 1919. Serial No. 336,255. 11 Claims. (Cl. 243—14.)



1. Pneumatic despatch tube for apparatus having therein a despatch tube, a cover for the terminal of the tube, means to hold the cover closed, a valve for admitting air to the tube to propel a carrier, means for opening the valve active upon closure of the cover, and pneumatic means operating as a consequence of releasing the cover for closing the valve.

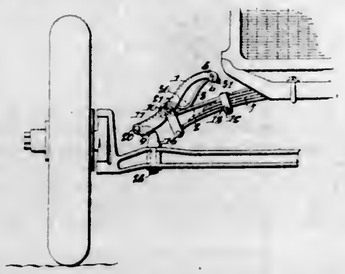
1,347,137. MANUFACTURE OF JAWS FOR BRAKE-ROD CONNECTIONS. ROBERT R. WEAVER, Columbus, Ohio. Filed Aug. 9, 1918. Serial No. 249,171. 1 Claim. (Cl. 29—164.)



The method of making a jaw of the character described, consisting in cutting from a plate of metal, a blank hav-

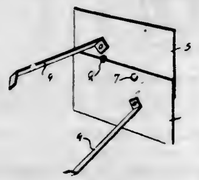
ing two arms radiating from a shank member and having perforated heads at their free ends; twisting said radiating arms one-fourth of a turn, and afterward bending the twisted arms toward each other until their heads become parallel.

1,347,138. SHOCK-ABSORBER. CHARLES A. WIBERG, Duluth, Minn. Filed Nov. 11, 1919. Serial No. 337,144. 5 Claims. (Cl. 267—19.)



1. In a shock absorbing means for road vehicles, a fixed support on the vehicle, the main spring, an oscillating lever pivotally connected at its lower end to a fixed support on the vehicle and having means at the pivotal end for limiting its oscillation in one direction, a link connection that joins the outer end of the vehicle main spring and the lever, and an auxiliary looped spring, the loop of which engages the pivotal connection that joins the link and the lever, one end of the said looped spring having a fixed connection with the main spring and the other end of the said auxiliary spring having a slidable connection with the outermost end of the pivoted lever, the said outermost end of the lever and the free end of the spring that engages it having cooperating means to limit the rebound oscillation of the lever.

1,347,139. FLUE-CLOSURE. WILLIAM C. ADAMS, Lincoln, Nebr. Filed Dec. 22, 1919. Serial No. 346,457. 1 Claim. (Cl. 126—319.)



A closure for closing either end of a flue opening comprising a pair of rectangular plates, each plate having one of its marginal edges pivoted to the adjacent marginal edge of the other plate, a lug carried by one of said plates in spaced relation to the pivotal connection of said plate, and resilient elongated retaining arms connected to the plates in spaced relation to each other, the greater portion of said arms adapted to be engaged with the walls of the flue opening, said lug engaging the edge of the adjacent plate, whereby pivotal movement of the plates toward the center of the flue opening is prevented when the plates are disposed over the end of the flue opening.

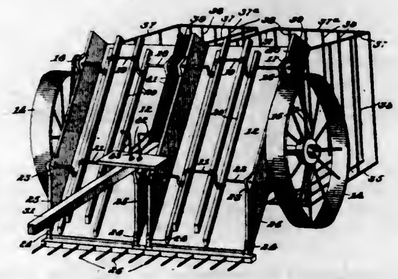
1,347,140. OPHTHALMIC MOUNTING. ARTHUR A. ARNOLD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Jan. 2, 1918. Serial No. 210,031. 2 Claims. (Cl. 88—47.)

1. An ophthalmic mounting including a metallic frame member, a non-metallic portion, and means for connecting the said parts, including an attaching plate having an upstanding perforated tongue and projections on the



non-metallic member interlocking with the perforations on the tongue for connecting the parts.

1,347,141. HAY-COCKER. G HENRY BENNET, Springdale, Mont., assignor of one-half to William Hruza, Livingston, Mont. Filed Mar. 22, 1919. Serial No. 284,270. 1 Claim. (Cl. 56—361.)



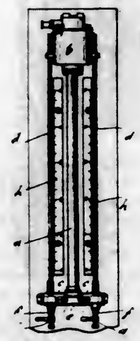
In a hay cocker, the combination with a wheeled frame comprising an inclined platform, of a hay gathering rake pivotally mounted at the lower end of said platform, means for adjusting said rake to different working positions, walking rakes for carrying the hay upward and over said platform, and dumping receptacles receiving the hay at the rear of the machine, said platform being provided with strips to form two troughs between which troughs the draft tongue or pole of the machine is mounted.

1,347,142. COMBINED COFFEE-PERCOLATOR AND TEA-STEEPER. HENRY C. BIETTE, Buffalo, N. Y., assignor of one-half to John Thomson and one-half to Paul C. Wasasier, Buffalo, N. Y. Filed Apr. 11, 1917. Serial No. 161,195. 6 Claims. (Cl. 53—3.)



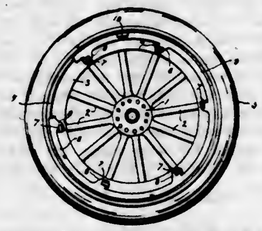
1. A utensil of the kind described, comprising a pot provided with a pouring spout and exterior projecting portions, a holder into which said pot is placed provided with portions engaging the exterior projecting portions of said pot to hold the latter within said holder, a coffee container having its lower portion fitting into the upper portion of said pot, and a supporting member having a straining element and being adapted to support said coffee container.

1,347,143. APPARATUS FOR MEASURING THE FLOW OF LIQUIDS. CLEMENT BROWN, Birmingham, England. Filed Dec. 18, 1917. Serial No. 207,701. 3 Claims. (Cl. 73—167.)



1. Apparatus for measuring the flow of liquids, including a constant level chamber, a supply conduit descending therefrom, a trifurcation forming the terminal of said conduit and communicating with said conduit through a calibrated orifice, a vertically extending tube rising from one branch of said trifurcation, an outlet pipe secured to the second branch, and a test outlet secured to the third branch of said trifurcation, said test outlet having a calibrated orifice and permitting discernment of a particular rate of flow under varying temperature conditions.

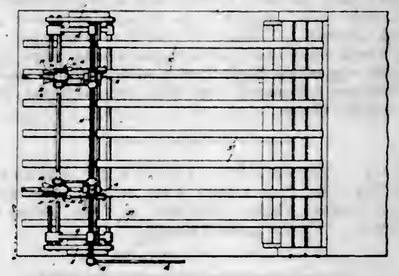
1,347,144. DEMOUNTABLE RIM FOR AUTOMOBILE-WHEELS. WILLIAM J. BRUCE, Sterling, Ill. Filed June 23, 1919. Serial No. 306,248. 1 Claim. (Cl. 152—21.)



In a device of the class described, in combination with a wheel and an auxiliary rim mounted removably thereon, a series of bolts fixed in the felly of said wheel, and provided with engaging members on their outer ends; a ring adapted to hold said auxiliary rim in place on said wheel; a plurality of lugs projecting inwardly from said ring and adapted for connection with said bolts and engaging members; and a lock-pin removably held in one of said lugs, and capable of holding such lug and the accompanying bolt from accidental release.

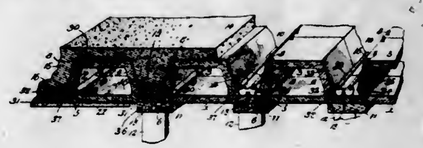
1,347,145. SLOW-DOWN SHEET-STRAIGHTENER. CARL E. CHRISTOPHEL, Pearl River, N. Y., assignor to Dexter Folder Company, Pearl River, N. Y., a Corporation of New York. Filed Nov. 10, 1919. Serial No. 336,833. 6 Claims. (Cl. 271—46.)

1. In a machine of the character described, the combination of a track bar, a carriage reciprocable on said track bar, sheet engaging means movable on said carriage into and out of sheet engaging position, and camming elements mounted respectively on said carriage and track bar, one of said camming elements being movable



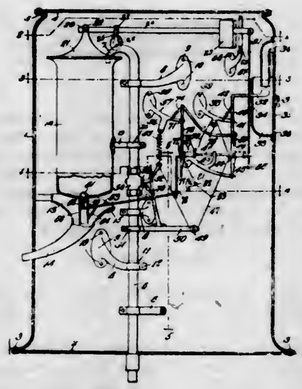
transversely to the plane of operation of the other of said camming elements to render said camming elements periodically active.

1,347,146. FLOOR AND CEILING CONSTRUCTION. JAMES G. DAVIS, Buffalo, N. Y. Filed Nov. 7, 1918. Serial No. 261,529. 6 Claims. (Cl. 72—66.)



3. A floor and ceiling construction comprising a plurality of porous body sections arranged adjacent to each other and forming between them a plurality of channels, a plurality of supports arranged in said channels and each having horizontal feet embedded in these portions of said body sections forming the bottom of said channels, legs rising from said feet and a crimped cross bar connecting the upper ends of said legs, reinforcinig bars arranged in said channels and resting on said cross bars, and a mass of concrete extending over said sections and into the channels between the same and embedding said reinforcing bars and upper parts of said supports.

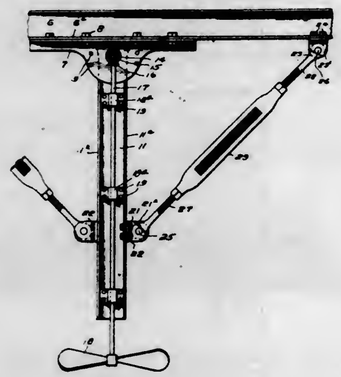
1,347,147. AUTOMATIC GASOLENE-DISPENSING MACHINE. FRED C. DENNIS, Blair, Okla. Filed Sept. 27, 1917. Serial No. 193,541. 4 Claims. (Cl. 249—2.)



1. In a device of the class described, the combination of a casing having a fuel supply pipe, including a valve,

yieldable means for turning the valve in one direction, a weight pivotally mounted within said casing, a flexible cable connected to said weight and said valve, a trip lever having a head normally holding said weight in a set position, said lever adapted to be engaged by a coin and thereby shifted to release the weight, whereupon the weight will release said cable to allow said valve to be operated, and means for returning said weight to its normal position, whereupon said cable will move the valve to a closed position.

1,347,148. PROPELLING AND DRAFT-REDUCING MECHANISM FOR SHIPS AND BOATS. CON DRISCOLL, Coalinga, Calif. Filed Mar. 24, 1920. Serial No. 368,447. 4 Claims. (Cl. 115—34.)



1. The combination with the hull of a vessel of a horizontal driven shaft, a swinging propeller carrying element mounted to swing about said shaft, a propeller shaft carried thereon, intermeshing beveled gears upon the propeller shaft and the horizontal shaft respectively and members adjustable as to length and rigid when set, pivotally connected to said swinging element and to an element carried by the hull.

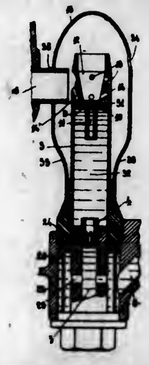
1,347,149. POWDER-RECEPTACLE. GABRIEL FELSENTHAL, Chicago, Ill. Filed Dec. 20, 1919. Serial No. 346,345. 1 Claim. (Cl. 132—34.)



An article of the class described comprising a box and a container for powder held in the bottom thereof and comprising two oppositely dished members, the upper dished member having an inturned peripheral flange, a filling opening in said member, a cover member superimposed upon said upper member, and a rivet connecting the central portion of said three members.

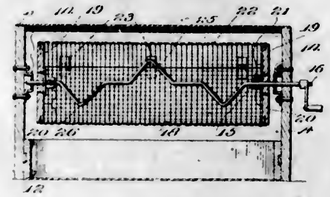
1,347,150. CARBURETER. ENRICO FEROLDI, Turin, Italy. Filed Mar. 19, 1918. Serial No. 223,267. 3 Claims. (Cl. 299—141.)

1. A nozzle for explosion engine carbureters, comprising a tubular member having a transverse partition in the upper part thereof to divide the tubular member into an upper section and a lower section, said partition having an orifice to form a passage between said sections, said upper section having spraying perforations extending to the outer surface thereof at substantially the same



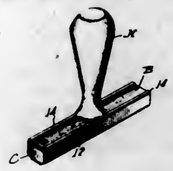
level as a port formed in the wall of the tubular member and extending from said lower section to the outer surface of the tubular member.

1,347,151. DUSTLESS ASH-SIFTER. CHARLOTTE G. FETTE, Shelton, Conn. Filed Oct. 23, 1918. Serial No. 259,369. 1 Claim. (Cl. 83—60.)



A sifter of the type described, comprising a screen cylinder, a shaft fixedly mounted through the centers of its ends and formed between the latter into V-shaped bends all standing in a single plane and whereof one projects in one direction at the midlength of the cylinder and others near the ends thereof project in the opposite direction, the angles of said bends standing approximately midway between the axis and the wall of the cylinder, and means for supporting the extremities of said shaft and for turning it to rotate the cylinder.

1,347,152. STAMP-MOUNT. HARRY S. FOLGER, Chicago, Ill. Filed Nov. 29, 1918. Serial No. 264,509. 1 Claim. (Cl. 101—368.)



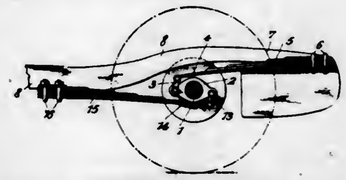
A stamp mount consisting of sheet metal bent to form a stamp-holding channel, the metal forming the sides of such channel being bent back upon itself and extending in the form of hooks located above the outer corners of said channel to form a label-holding channel, and handle-holding projections extending from said hooks and so arranged that upon a handle being placed upon said projections the said hooks will be drawn inward to clamp a label held in the label-holding channel.

1,347,153. ROTARY BRUSH. CLINTON E. FROST, East Cleveland, Ohio, assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 28, 1918. Serial No. 259,947. 5 Claims. (Cl. 15—37.)



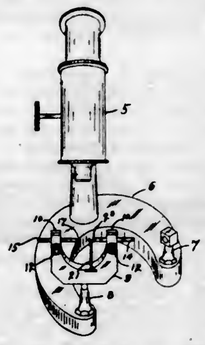
3. The combination with a spindle, of complementary cup-shaped clamp members adapted to be terminally secured to said spindle, and a brush section comprising a base ring, brush material looped upon said ring, and a perforated member of U-shape in cross-section laterally engaging said material, the loops of material passing through the perforations in said member and the latter being dished so as to maintain said material at an angle to the plane defined by said ring, said brush section being held between said clamp members with its open face directed away from said spindle.

1,347,154. SPRING SUSPENSION FOR VEHICLES. EMIL C. GEISSBERGER, Zurich, Switzerland. Filed Nov. 20, 1917. Serial No. 202,939. 4 Claims. (Cl. 267—41).



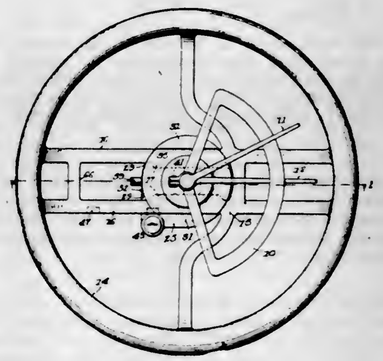
1. A spring suspension for vehicles comprising a spring composed of leaves arranged forwardly of the axle and fixed at one end to the car frame, a second similar spring arranged rearwardly of the axle and connected to the car frame, the end of the longest leaves of the springs lying on opposite sides of a horizontal plane through the axle, and a shackle for connecting the end of the longest leaf of each of said springs to the axle, whereby said springs are enabled to have movement independent of each other.

1,347,155. BALANCE-PIVOT STRAIGHTENER. HERMAN HAEFLIGER, North Platte, Nebr. Filed June 6, 1919. Serial No. 302,359. 4 Claims. (Cl. 88—40.)



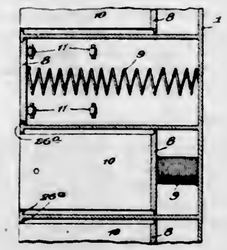
1. In combination, a microscope having a base, and an object holder positioned to present an object in the field of the microscope, said holder comprising two opposing supporting members apertured to receive the pivots of a balance staff, one of said members being cut out to expose the protruding pivot.

1,347,156. STEERING-WHEEL. FRANK R. HANCOCK and RONALD F. HOFFMAN, Kenosha, Wis. Filed May 11, 1917. Serial No. 168,011. Renewed May 1, 1920. Serial No. 378,263. 9 Claims. (Cl. 74—33.)



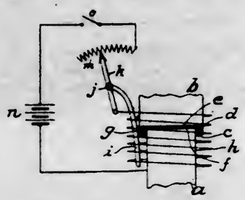
1. In a steering wheel lock, the combination, with the steering post, of a steering wheel including a spider, a hub member freely revolubly mounted on said post and on which said spider is slidably mounted, a driving connection between the spider and the post when said spider is in one position with respect to the post, and inclosed key controlled means for directly locking the spider to the hub when said spider is in or out of driving engagement with the post.

1,347,157. APPARATUS ON AIRCRAFT FOR RECEIVING AND DELIVERING MAIL AND MERCHANDISE. EARL C. HANSON, Washington, D. C. Filed May 19, 1920. Serial No. 382,646. 4 Claims. (Cl. 244—1.)



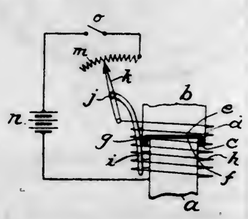
1. In an aircraft member having a streamlined surface, a package forming part of the streamlined surface, means to release the package, and means to automatically complete the streamlined surface upon the release of the package.

1,347,158. PROCESS OF OXIDIZING AMMONIA TO NITRIC ACID. ABRAHAM HENWOOD, Cynwyd, Pa. Filed July 8, 1918. Serial No. 243,758. 7 Claims. (Cl. 23—1.)



1. The improvement in the art of catalytically combining gases which comprises passing the mixture containing the gases to be combined through a diaphragm of catalytic material of such negligible thickness that substantially the entire mass of the catalyzer is active.

1,347,159. PROCESS OF OXIDIZING AMMONIA TO NITRIC ACID. ABRAHAM HENWOOD, Cynwyd, Pa. Original application filed July 8, 1918, Serial No. 243,758. Divided and this application filed Jan. 9, 1919. Serial No. 270,409. 4 Claims. (Cl. 23—1.)



1. The method of keeping down the temperature in the oxidation of ammonia gas into nitric acid which consists in providing for a non-automatic temperature reduction and correcting for excess of reduction by an automatic addition of heat as the lower range of permissible temperature is approached.

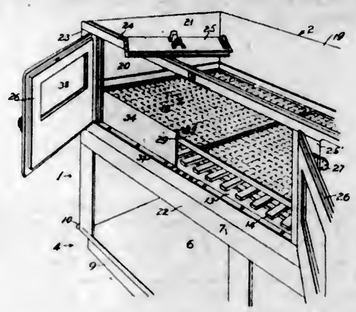
1,347,160. PROCESS OF CATALYTICALLY COMBINING GASES. ABRAHAM HENWOOD, Cynwyd, Pa. Original application filed July 8, 1918. Serial No. 243,758. Divided and this application filed Jan. 9, 1919. Serial No. 270,410. 2 Claims. (Cl. 23—28.)

1. The improvement in the art of catalytically combining gases which consists in passing a mixture containing the gases to be combined over a catalyzer supported upon a carrier, and supporting the carrier flexibly to provide for its expansion and contraction under the influence of temperature variations.

1,347,161. REFRIGERATOR-COUNTER DISPLAY-CASE. ANTON N. HORNUNG, Los Angeles, Calif. Filed Nov. 11, 1919. Serial No. 337,254. 6 Claims. (Cl. 211—25.)

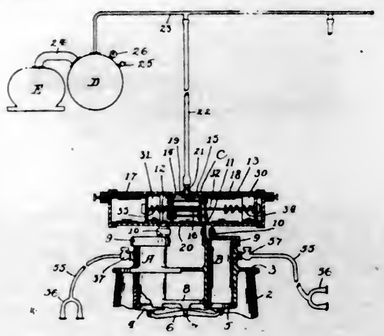
1. A refrigerator display counter comprising a counter section; a receptacle seated in the top of said section; a grid separating the receptacle into upper and lower compartments, the lower compartment being located below the level of the top of the counter section, and the upper compartment being adapted to display the contents of the upper compartment; one side of said case being provided with an opening communicating with both compartments thereof; closure means to close said opening, and supplementary means for closing the lower compartment while said closure means are open to give access to the upper compartment.

5. A display case provided with an entrance at one side, a rail extending from end to end of the entrance;



an apron formed of a sheet and adapted to catch upon the rail and to close the portion of the entrance that is below said rail, and a door to close said entrance.

1,347,162. MILKING-MACHINE. ALBERT C. HOUGLAND, St. Paul, Minn. Filed Apr. 18, 1918. Serial No. 229,374. 3 Claims. (Cl. 31—99.)

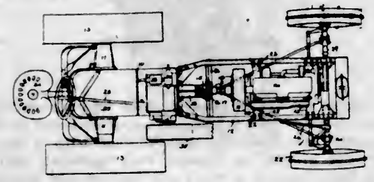


1. A milking machine, comprising, in combination, milk receivers having milk receiving tubes communicating therewith and also having milk discharge passages, check valves movably mounted and adapted to alternately close said passages when air is exhausted from said receivers, an air exhaust pipe, means for exhausting air from said pipe and a pulsator interposed between said pipe and said milk receivers adapted to alternately allow air to be exhausted from and admit air into said receivers automatically.

2. A milking machine comprising in combination, a pair of milk receivers having means for mounting them on a milk receptacle and having milk receiving tubes connected therewith and milk discharge passages, a pair of valves movably mounted and adapted to alternately close said passages when air is alternately exhausted from said receivers, a double air pulsator connected with said receivers, a single air exhaust duct connected with said pulsator and a constant source of air exhaust connected with said duct and remotely distanced from said pulsator, said pulsator being adapted to communicate suction alternately with said receivers.

3. A milking machine, comprising, in combination, milk receivers having milk receiving tubes and milk discharge passages, check valves movably mounted and adapted to alternately close said passages when air is exhausted from said receivers, an air exhaust pipe, means for exhausting air from said pipe, a pulsator interposed between said pipe and said milk receivers adapted to alternately allow air to be exhausted from and to admit air into said receivers automatically and means for regulating the length of the pulsations of said pulsator.

1,347,163. TRACTOR. JAMES M. HOWE, Cleveland Heights, Ohio, assignor to The S. W. H. Engineering Company, Cleveland, Ohio, a Copartnership. Filed Nov. 20, 1918. Serial No. 263,322. 15 Claims. (Cl. 180—54.)



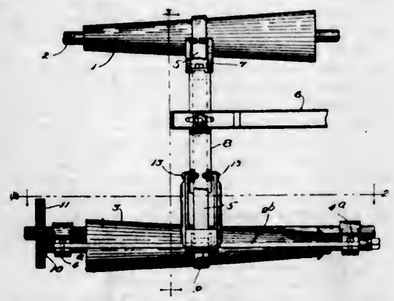
1. In a tractor, a running frame consisting of a rear member housing the gearing and a forward extension member carrying the engine and secured independently of the engine frame directly to the front end of the rear member, whereby the engine may be removed from the running frame without dismembering said frame.

1,347,164. PENWIPER. VIRGIL G. JASPER, Elyria, Ohio. Filed May 9, 1917. Serial No. 167,399. 5 Claims. (Cl. 120—108.)



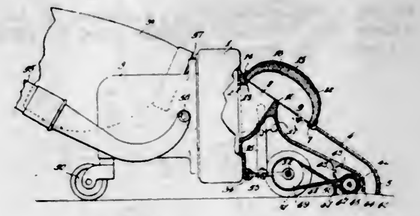
5. In a pen wiper, a body portion, a tongue, said body portion and said tongue being composed of resilient, compressible material, said tongue having an outer U-shaped wall, corresponding inner walls for the body portion, said outer and inner walls being normally so close together as to be forced apart when a pen is inserted, and so related as to engage the pen with increased friction when the pen is withdrawn, said body portion being provided with a dirt-receiving recess above and below the tongue.

1,347,165. FLY-FRAME. JOSEPH H. JONES, Winthrop, Mass., assignor of one-half to Thomas E. Heatley, Winthrop, Mass. Filed Aug. 28, 1919. Serial No. 320,513. 6 Claims. (Cl. 64—4.)



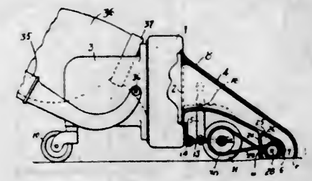
5. A cone and belt system including a cone mounted with capacity for movement to slacken the cone-belt, a shifter-bar, a belt-guide controlling the belt at its point of ongoing tangency to the cone, and a link-member through which traversing movement is imparted to said belt-guide from said shifter-bar.

1,347,166. SUCTION-CLEANER. JAMES B. KIRBY, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Filed July 9, 1915. Serial No. 38,862. 2 Claims. (Cl. 15—60.)



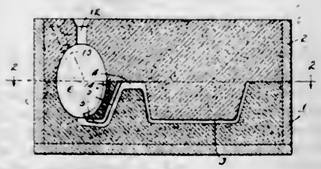
1. In a suction cleaner, a casing having an inlet mouth and a fan chamber, a seating portion located between the inlet mouth and fan chamber, there being a pair of openings through said seating portion and communicating respectively with said inlet mouth and fan chamber, said seating portion being adapted to receive either a cover adapted to place said openings in communication or a plate having a hose connection communicating with the fan chamber opening, and means for securing either said cover or said plate to said seating portion.

1,347,167. SUCTION-CLEANER. JAMES B. KIRBY, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Original application filed July 9, 1915, Serial No. 38,862. Divided and this application filed July 12, 1917. Serial No. 180,057. 7 Claims. (Cl. 15—60.)



1. In a suction cleaner, a collecting nozzle having a narrow, elongated, downwardly-facing suction mouth, transversely arranged, a rotatable agitating device journaled to said nozzle parallel to said suction mouth and in operative relation therewith, a bracket pivoted to said casing upon an axis parallel to said agitating device, a rotatable shaft journaled to said bracket upon an axis parallel with such pivot, movement-transmitting mechanism operatively connecting said shaft and agitating device, and means for adjusting said bracket angularly about its pivot, said agitating device, bracket pivot, and shaft being substantially in the same plane.

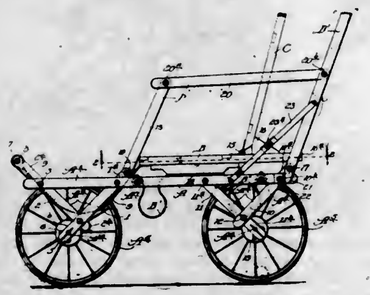
1,347,168. PROCESS OF MAKING MOLDS. AUGUST KUZNIK, Cleveland, Ohio, assignor of three-fourths to Andrew Lillie, Cleveland, Ohio. Filed July 11, 1919. Serial No. 310,148. 4 Claims. (Cl. 22—134.)



1. A mold having a molding cavity, a separating chamber provided with a concave bottom, a trapped outlet

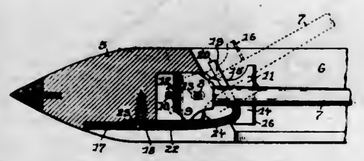
leading from the central portion of such bottom to the molding cavity, and a pouring gate for delivering molten metal to said chamber tangentially thereof.

1,347,169. PERAMBULATOR. ALEXANDER B. LEITH, Chicago, Ill. Filed Dec. 28, 1918. Serial No. 268,650. 5 Claims. (Cl. 280—39.)



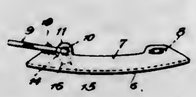
1. In a perambulator, a running gear-frame comprising wooden side-bars, Y-form wooden axle-supports, each having upwardly divergent arms rigidly connected with the corresponding side-member of the frame, one of said bars having a downward extension affording an axle-support, axles carried by said axle-supports, and cross-members connecting the side-members of the running gear-frame.

1,347,170. LOOM-SHUTTLE. SAUL R. LIBERTY, Pawtucket, R. I. Filed Oct. 15, 1919. Serial No. 330,890. 3 Claims. (Cl. 139—89.)



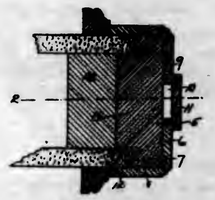
3. A spindle spring for a loom shuttle having a bent up U-shaped end, the arms of the U-shaped end terminating in cam surfaces which engage with and release the spring arms of the bobbin clamping member from the bobbin, as described.

1,347,171. BUCKLE. CREIGHTON S. MACDONALD, Attleboro, Mass. Filed Feb. 14, 1920. Serial No. 358,577. 2 Claims. (Cl. 24—170.)



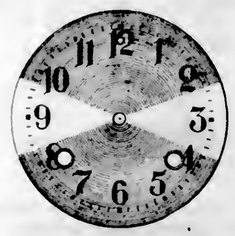
1. A buckle comprising a relatively-fixed part, a member pivotally mounted therein formed of a substantially flat sheet-metal body, and a rib member of sheet metal including a web lying against and secured to said pivotally-mounted member and a transverse clamping-rib formed by bending a marginal portion of the material into a loop raised above the plane of the web.

1,347,172. DOOR-FRAME AND SIMILAR STRUCTURE. THOMAS MALCOLM, Hartford, Conn. Filed Feb. 9, 1920. Serial No. 357,406. 5 Claims. (Cl. 20—11.)



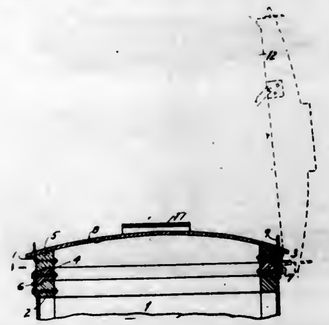
1. A frame for a wall opening, said frame comprising a member formed from a single piece of material having an integral ground on one edge thereof with a recess back of the ground to receive wall material, and a finishing jamb applied to the front face of said member.

1,347,173. METAL CLOCK-DIAL. GUNTHER E. H. MATHES, Waterbury, Conn., assignor to Waterbury Clock Co., Waterbury, Conn., a Corporation. Filed Apr. 9, 1920. Serial No. 372,395. 1 Claim. (Cl. 41—19.)



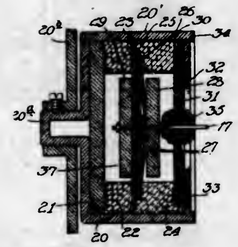
As a new article of manufacture, a metal clock-dial characterized by having its surface initially abraded in a series of concentric circles and its figures photographically printed upon such abraded surface prior to lacquering the same, whereby the figures are located in the plane of its finished surface.

1,347,174. FREIGHT-CAR. HAROLD T. MURPHY, Springfield, Mass. Filed Apr. 10, 1920. Serial No. 372,935. 5 Claims. (Cl. 105—377.)



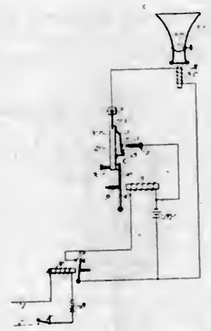
1. In a car, a body, a roof, an intervening member, and oppositely-disposed articulating means on different levels for said member and body and said member and roof.

1,347,175. TELEPHONE INSTRUMENT. FRANK J. REICHMANN and JOHN PRESS, Chicago, Ill.; said Press assignor to said Reichmann. Filed June 21, 1918. Serial No. 241,135. 2 Claims. (Cl. 179—181.)



1. In a carbon button for telephony, a compound diaphragm dividing the mass of granular carbon into separate portions and comprising a dished, flexible disk-like member secured between resilient sheets.

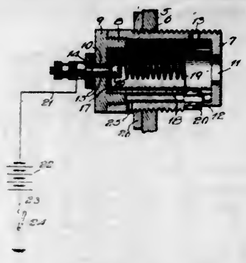
1,347,176. TELEGRAPH SIGNALING SYSTEM. HARRY O. RUGH, Chicago, Ill. Filed May 8, 1919. Serial No. 295,802. 9 Claims. (Cl. 178—47.)



1. In a telegraph system, a telegraph circuit, a plurality of stations therefor, a telegraph relay for a receiving one of the said stations, a tone producing device, an armature for the said relay, a reed-tongue, electrical contacts operated by the said reed-tongue, while the said reed-tongue is vibrating, said reed-tongue being mechanically held by the said armature in stressed condition when the relay is deënergized and being adapted to initiate a prolonged train of vibrations of the said reed-tongue when the said relay is energized, said armature immediately terminating the reed-tongue vibrations when the said relay is deënergized, and a controlling circuit for the said tone producing device comprising the said contacts and a source of current.

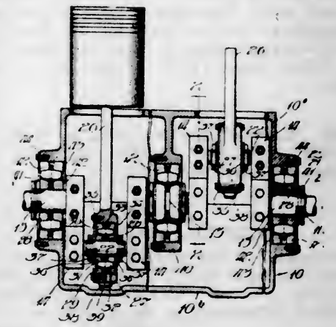
1,347,177. ELECTRIC APPARATUS FOR HEATING AND VAPORIZING HYDROCARBON FUELS. EDWARD SASLOW, Muskegon, Mich. Filed Feb. 16, 1920. Serial No. 358,994. 3 Claims. (Cl. 219—38.)

1. In a device of the class described, the combination with a conduit adapted for the passage of explosive mixture, of a container extended thereinto and having an opening in its inner portion and another opening externally of the conduit, a resistance coil supported within



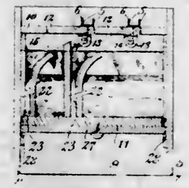
the container and having one of its ends insulated therefrom, an electric circuit connected to said end of said coil and a switch in said circuit.

1,347,178. CRANK-SHAFT. MARTIN J. SCHENK, Chicago, Ill. Filed Feb. 27, 1919. Serial No. 279,529. 5 Claims. (Cl. 74—38.)



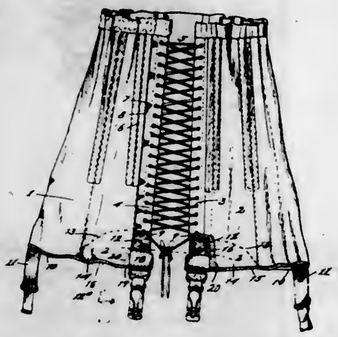
2. A crank shaft comprising a plurality of main shaft sections, crank arms having transverse channels therein adjacent the inner ends thereof adapted to receive adjacent ends of said shaft sections, other transverse channels provided adjacent the outer ends of said crank arms, and a crank pin detachably secured in said last named channels.

1,347,179. COIN-COUNTING APPARATUS. OSCAR E. SCHNITZSPAHN, Buffalo, N. Y. Filed Aug. 18, 1917. Serial No. 186,924. 3 Claims. (Cl. 133—8.)



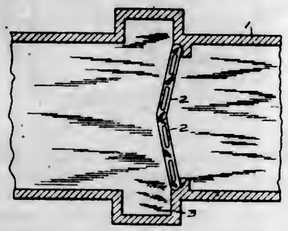
1. A coin counter comprising a vertically swinging rack adapted to support the coins deposited thereon so that their flat sides are arranged horizontally, and a guide-way into which the coins are discharged directly from said rack upon tilting the latter and which is of such width that the coins are held with their flat sides in a vertical position and which has an inclined bottom upon which the coins roll at their edges lengthwise of said guide-way.

1,347,180. CORSET. CHARLES H. SCHOPBACH, Aurora, Ill., assignor to International Corset Company, Aurora, Ill., a Corporation of Illinois. Filed Nov. 7, 1918. Serial No. 261,579. 3 Claims. (Cl. 2—73.)



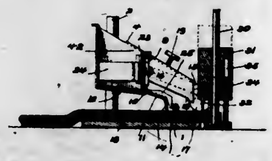
1. In a front lace corset in which a portion of the fabric extends below the fastening and lacing stays, a hose supporter secured at its upper end to the lower end of a front stay and extending parallel with the free margin of said fabric, and means secured to said free margin coöperating with said supporter and loosely embracing the latter and preventing lateral wrinkling or folding of the fabric, substantially as and for the purpose specified.

1,347,181. GLASS-FURNACE. JOHN R. SCOHY, Okmulgee, Okla. Filed Nov. 28, 1919. Serial No. 341,274. 2 Claims. (Cl. 49—56.)



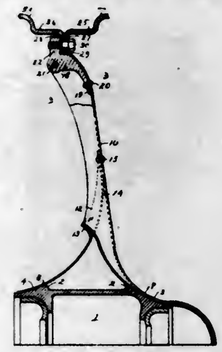
1. A glass furnace having floaters and pockets formed in vicinity of and in advance to the outer ends of the floaters for collecting the scum held back by the floaters.

1,347,182. WRAPPER-PASTING DEVICE. JOSEPH J. SLEEPER, Moores, Pa., and WILLIAM MILLS, Pleasantville, N. J.; said Mills assignor to said Sleeper. Filed Apr. 11, 1917. Serial No. 161,133. 11 Claims. (Cl. 93—68.)



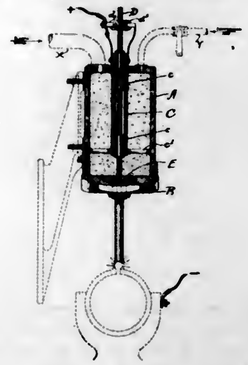
1. A device of the character described, comprising a paste holder having a paste outlet, an inclined platform communicating with the outlet and over which the paste is fed from the paste holder and side guide therefor, and a roller located adjacent to but spaced from the said inclined platform.

1,347,183. METAL WHEEL. REUBEN STANLEY SMITH, Milwaukee, Wis. Filed Oct. 9, 1916. Serial No. 124,498. 22 Claims. (Cl. 152—50.)



1. A wheel including a web spoke member, comprising a piece of sheet metal shaped to form a conical hub embracing annulus having radial arms, each partially folded along its longitudinal center line to form a spoke substantially U-shaped in cross section, the outer portions of said annulus being corrugated to form outwardly extending and progressively deepening channels, with the portions between said channels constituting continuations of the spokes in the direction of the hub.

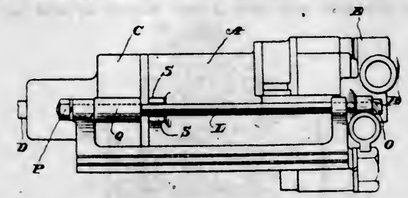
1,347,184. ELECTRIC-ARC-WELDING MACHINE. REUBEN STANLEY SMITH, Milwaukee, Wis. Filed May 17, 1920. Serial No. 381,877. 12 Claims. (Cl. 219—8.)



1. In an arc welding machine employing a fusible metallic electrode, connections for supplying a fusing current to the electrode, and means for applying a plastic coating or covering to the electrode as the latter is fed to the work to be welded and consumed in the welding operation.

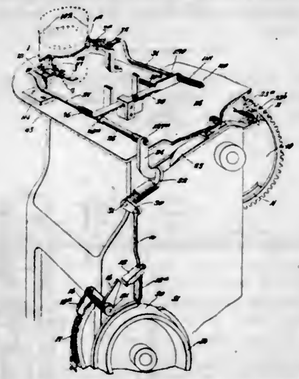
1,347,185. MOUNTING FOR ROCK-DRILLS. WILLIAM A. SMITH, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 22, 1920. Serial No. 367,939. 1 Claim. (Cl. 255—51.)

In a rock drill, a cylinder casing having front and back heads, holding lugs at each side of the front and back heads, guide lugs at each side of the cylinder casing in line with the said holding lugs, a cradle for the rock drill provided with a body portion having guides and also having supporting arms adapted to lie opposite the said holding lugs on the front and back heads, and continuous side bolts adapted to extend through the said supporting arms and holding and guide lugs at each side of the rock drill



and means for tightening the bolts to clamp the cylinder casing and front and back heads to each other and to the said cradle.

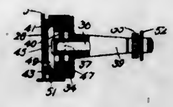
1,347,186. CIRCULAR-KNITTING MACHINE. WILLIAM E. SMITH, Milltown, N. J., assignor to The Interwoven Mills, Inc., New Brunswick, N. J., a Corporation of New Jersey. Filed May 17, 1919. Serial No. 297,763. 9 Claims. (Cl. 66—21.)



1. In a circular knitting machine, the combination with a circular series of needles, stitch forming cam mechanism for actuating all of said needles, to form a circular course of stitches, and a thread guide for feeding a knitting thread circularly to all of said needles during circular work, certain consecutive needles for knitting a segmental portion of the tubular fabric being provided with longer nibs than those of the other needles of the series, of an auxiliary raising cam for engaging the long nib needles only, for raising them out of operative relation with the stitch forming cam mechanism during circular work, an auxiliary lowering cam for engaging said long nibs and lowering them into operative relation with the stitch forming cam mechanism, said auxiliary raising cam being movable in directions toward and from the circular series of needles, into and out of operative relation with the long nib needles, and means for moving said auxiliary raising cam into and out of operative position with respect to the long nib needles, whereby partial courses of stitches may be knit between adjacent circular courses of the tubular fabric with the same knitting thread.

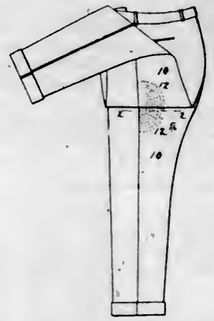
1,347,187. TYPEWRITING-MACHINE. JACOB SOKOLOV, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 9, 1917. Serial No. 147,533. 9 Claims. (Cl. 74—45.)

1. In a typewriting machine, the combination with a traveling carriage, of a centrifugal governor for said carriage, said governor comprising a shaft, means for connecting said shaft to said carriage, and through which said shaft may be rotated in accordance with the movement of said carriage, centrifugal arms carried by said shaft, friction contact elements carried by said arms, and opposed re-action surfaces carried by said governor to receive the thrust of said contact elements when urged



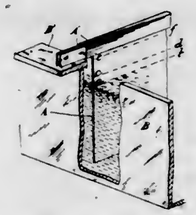
outwardly by said arms, one of said re-action surfaces being beveled or conical so that outward movement of said arms will have a tendency to wedge the contact elements between the opposed reaction surfaces.

1,347,188. BIFURCATED GARMENT. SAMUEL F. STEIN, Williamsport, Pa. Filed Jan. 17, 1920. Serial No. 352,062. 4 Claims. (Cl. 2—126.)



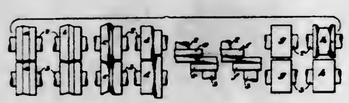
2. A bifurcated garment having at the crotch, and where the external surface is subjected to frictional wear and over the area subjected to such wear, small portions of such surface isolated by concentric lines of stitching in close proximity to one another.

1,347,189. RECOVERY OF ZINC BY ELECTROLYSIS. ROYALE HILLMAN STEVENS, Risdon Road, Hobart, Tasmania, Australia, assignor to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Filed Nov. 11, 1919. Serial No. 337,320. 4 Claims. (Cl. 204—18.)



3. In the electrolytic process for the recovery of zinc providing a protective coating for the cathode above the normal solution level by first carrying out a preliminary electrolysis with the cathode immersed to substantially a line immediately below the supporting bars, the cathodes having wooden strips affixed at or about the normal solution level which prevent the deposition of zinc under them, and then removing the said strips and proceeding with the electrolysis in the ordinary way in cells with the solution at normal level whereby the subsequently deposited zinc strips along the line of weakness at or about the solution level; substantially as described.

1,347,190. SHEET-METAL CONSTRUCTION. HARRY A. THOMAS, Pittsburgh, Pa., assignor to Margerie Thomas, Pittsburgh, Pa. Filed Nov. 3, 1919. Serial No. 335,290. 2 Claims. (Cl. 153—28.)

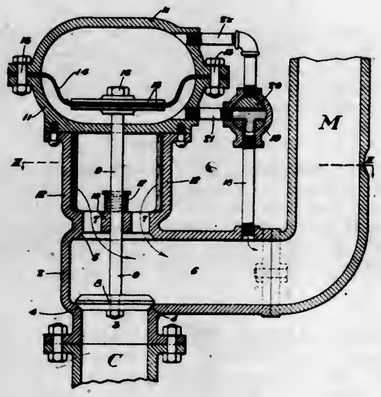


1. In the formation of a sheet metal joint member, the gradual deflection of a flat blank by a series of simultaneously operating continuous rolling treatments of a movable blank to provide first a V-shaped groove, then a right angled shoulder, then an acutely reversed Z formation with rounded corners, and then flattening the offset double rib thus formed to parallelism with the main blank with intervening clearance.

1,347,191. MINERAL PAINT-PIGMENT. NATHANIEL A. THOMPSON, Kansas City, Kans., assignor to Rock Hill Paint and Cloth Company, a Corporation of Delaware. Filed June 24, 1919. Serial No. 306,395. 3 Claims. (Cl. 134—58.)

1. A new pigment comprising ferric oxid, calcium oxid 6%, magnesium oxid 36.5%, silicon oxid 10.5%, sulfur .5%, and aluminum oxid .5%.

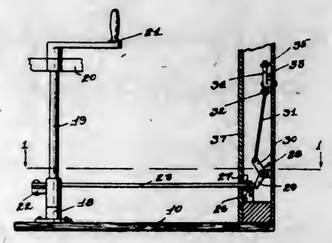
1,347,192. FUEL-CONTROL MECHANISM FOR INTERNAL-COMBUSTION ENGINES. HARRY L. TYGARD, Pittsburgh, and GEORGE M. HAMILTON, Oakmont, Pa. Filed May 8, 1920. Serial No. 379,829. 5 Claims. (Cl. 123—98.)



1. In an internal combustion engine, means for cutting off the fuel supply and for simultaneously opening the combustion chamber to the atmosphere consisting of a casing having an apertured wall at opposite sides of a middle circulation chamber, a stem extending therethrough, provided with a valve adapted to close one wall or the other, and means subject to the suction of the engine for actuating said valve.

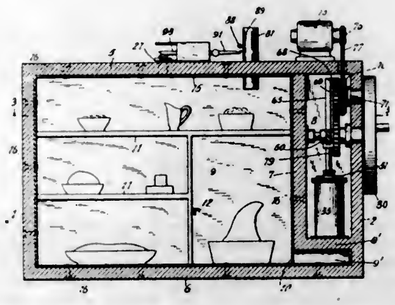
1,347,193. DOOR OPENING AND CLOSING DEVICE. JOHN WADE, St. Paul, and SIDNEY J. MARKIN and HARTWELL A. DU PREY, Minneapolis, Minn.; said Markin assignor to said Wade and said Du Prey. Filed Oct. 13, 1919. Serial No. 330,328. 3 Claims. (Cl. 268—9.)

1. In a device of the class described, the combination with a hinged door having a latch thereon, of a crank, a thrust-lever pivotally attached at one end thereto and having a pivotal and limited slidable connection at its other end with said door, a cam surface on said latter



end of said thrust-lever and mechanism connected with said latch and actuated by said cam surface for withdrawing the latch and withholding the same during the swing of the door.

1,347,194. VACUUM-CABINET. ELWOOD WASHINGTON, Hammond, Ind. Filed Apr. 29, 1919. Serial No. 293,506. 6 Claims. (Cl. 99—2.)



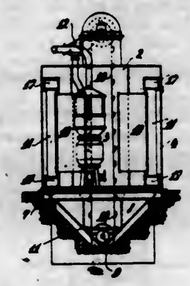
1. A device of the class described comprising a cabinet providing an air tight receptacle and partitioned off at one end to form a mechanism chamber, said mechanism chamber being spaced from the bottom of the cabinet to provide a space communicating with the said air tight receptacle, and suction pumps in said mechanism chamber and communicating through the bottom of the latter with the said space.

6. A device of the class described comprising an air-tight receptacle, having an opening in its wall, a suction pump in communication with said receptacle, a removable stopper closing said opening, an electric motor for driving said pump, a device automatically movable according to the degree of vacuum in the receptacle, a bridging piece carried by the said stopper, means providing a closed power circuit through the motor and bridging piece, and a member adapted to be engaged by the said device to open the said circuit, said member comprising a lever pivoted between its ends.

1,347,195. WORKSHOP VENTILATION. CHARLES WELLER, Zurich, Switzerland. Filed Jan. 5, 1918. Serial No. 210,519. 3 Claims. (Cl. 98—27.)

3. In a device of the character described, the combination with upper and lower oppositely disposed casings both communicating with atmosphere, an open ended

cylinder held in said casings and rotatable about its own axis therein, said cylinder having a slot in its wall ex-



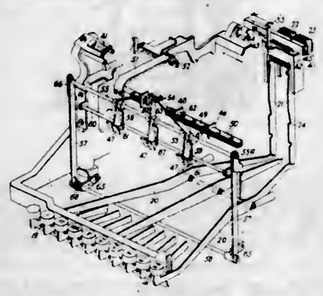
tending substantially throughout its length, and wings at opposite sides of said slot for giving direction to air issuing therethrough.

1,347,196. WIRE-CLAMP-FASTENING MEANS. CARL H. WERNER, Waterloo, Iowa. Filed May 22, 1919. Serial No. 299,066. 1 Claim. (Cl. 254—162.)



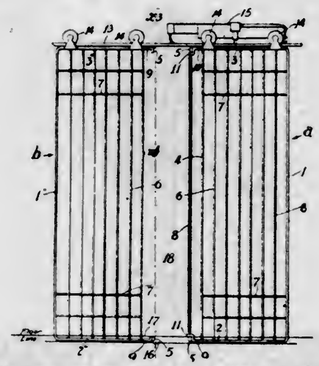
In a device of the character described, a flexible element formed into a U-shaped loop, whose members traverse alined orifices in spaced inter-stayed mold-boards, and a strain-device positioned along one of the mold-boards having a longitudinally-channeled base-plate to fit a vertical cleat on one of said mold-boards and having spaced bearings, a rotatable shaft in said bearings, the shaft having engaging-means to receive and hold the extremities of said members when the latter are wound about the shaft, placing the members simultaneously under equal longitudinal strain, and means for releasably holding the shaft in an adjusted position.

1,347,197. TYPEWRITING-MACHINE. LESTER A. WERNERY, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 5, 1917. Serial No. 140,818. 25 Claims. (Cl. 197—177.)



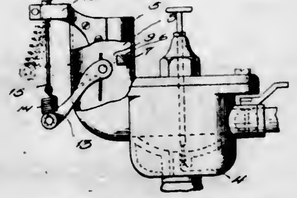
1. In a typewriting machine, the combination with a traveling carriage, of a tabulating key adapted to release the carriage and arrest the carriage, a second tabulating key adapted to make said first tabulating key ineffective to arrest the carriage, and carriage-controlled means for again making said first key effective to control the carriage.

1,347,198. SAFETY-GATE. GEORGE F. WINTER, Los Angeles, Calif. Filed Oct. 28, 1919. Serial No. 334,062. 12 Claims. (Cl. 189—46.)



1. The combination with a passway of edgewise moving closure means for said way and means for stopping said closure means at such point as to accommodate a limb of a person in case such limb is in the way at the shutting of the closure means.

1,347,199. CHOKE-VALVE. DAVID L. WINTERS, Edgewater, Md. Filed Oct. 15, 1919. Serial No. 330,798. 3 Claims. (Cl. 251—149.)



1. In combination, a carbureter provided with the usual throttle valve, fuel inlet, and air inlet, a valve in said air inlet, resilient means forming part of means within reach of the driver to close said valve, said resilient means being so connected with said valve as to permit the automatic opening thereof by the suction of the engine and to a degree proporioned to the load thereon.

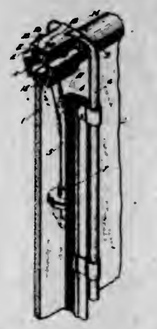
1,347,200. TREATMENT OF ZINC SOLUTIONS PREPARATORY TO THE RECOVERY OF ZINC BY ELECTRODEPOSITION. DAVID AVERY and ROWLAND T. D. WILLIAMS, Risdon, Hobart, Tasmania, Australia, assignors to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Filed July 25, 1918. Serial No. 246,642. 6 Claims. (Cl. 75—18.)

1. In the treatment of zinc solutions containing cobalt preparatory to recovery of zinc by electrodeposition the method of removing cobalt which comprises precipitating the cobalt by means of zinc dust in the presence of arsenic.

1,347,201. BRACKET FOR WINDSHIELD-CLEANERS. ALBERT B. BEITMAN, Cleveland, Ohio, assignor to The Outlook Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 29, 1917. Serial No. 193,907. 5 Claims. (Cl. 15—59.)

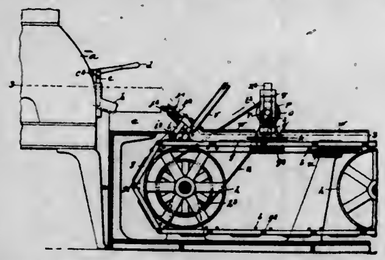
1. The combination of opposed plates for application to opposite sides of a windshield frame, each plate having angularly disposed portions and a portion thereabove that is substantially parallel to the corresponding portion of the other plate, a screw passing freely through one

and threaded into the other of such parallel portions, one of said plates having an extension disposed substantially horizontally above the frame and formed to constitute



an open sided bearing wherein the shaft of a cleaning device is adapted to be journaled, the other plate having a portion serving to complete the bearing on said open side.

1,347,202. GLASS-MOLDING MACHINE. HARRY O. BISBING, Detroit, Mich. Filed Sept. 26, 1919. Serial No. 326,513. 6 Claims. (Cl. 49—3.)



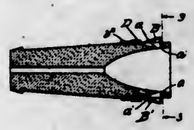
6. The combination of a molten glass reservoir, a discharge passageway for such reservoir, a chain-like series of glass receptacles adapted to be brought underneath such discharge passageway, an inclosure for the run way of such chainlike series of glass receptacles, and means for directing a hot blast through the roof of such inclosure against the discharging stream of molten glass.

1,347,203. COMBINATION ROD-SOCKET AND OVERSHOT FISHING-TOOL. WILLARD L. BOROUGH, Fullerton, Calif. Filed Oct. 30, 1918. Serial No. 260,396. 10 Claims. (Cl. 294—96.)



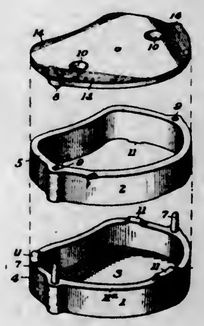
1. A fishing tool comprising a head having means formed thereon by which it may be secured to the lower end of a string of pump rods; a slip body threaded on the lower end of said head; slips placed in a conical opening formed in the bottom of said slip body; a compression spring acting between said slips and the bottom of said head; an overshot body threaded to the bottom of said slip body; a shoe threaded to the bottom of said overshot body; a series of overshot members pivotally mounted in said shoe and projecting upwardly into said overshot body; a wedge collar sliding freely in said overshot body above said overshot members; a compression spring acting between the upper end of said wedge collars and a projection formed inside said overshot body; and a wooden retaining pin passing through holes formed in said overshot body in such a position that said wooden pin will hold said wedge collar entirely out of contact with said overshot members.

1,347,204. CIGAR-HOLDER. WILLIAM H. BRIDGES, Cincinnati, Ohio, assignor of one-fourth to Morris W. Jennings and one-fourth to Stanley D. Hart, Cincinnati, Ohio. Filed Oct. 23, 1918. Serial No. 259,304. 2 Claims. (Cl. 131—10.)



1. A cigar holder having an internal recess near the outer edge of the socket, a finger normally seated in the recess, a spring arm upon the exterior of the holder projecting inward and engaging the finger, and a means for pressing the spring arm inward to carry the finger out of its recess.

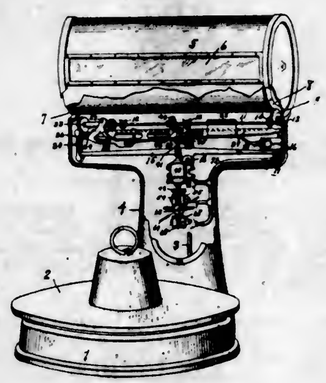
1,347,205. DENTAL FLASK. FREDERIC H. BROWN, Lebanon, N. H. Filed Sept. 26, 1919. Serial No. 326,463. 5 Claims. (Cl. 18—33.)



1. A dental flask comprising freely separable upper and lower portions having three projecting points of contact, whereby they may always be evenly seated against each other when clamped, substantially as described.

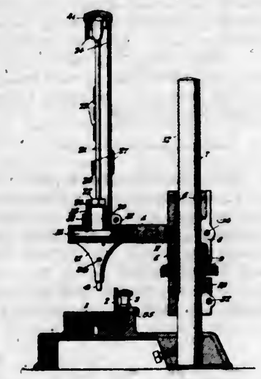
1,347,206. SCALE. FREMONT H. BUCKINGHAM, Detroit, Mich., assignor to The Standard Computing Scale Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 31, 1917. Serial No. 158,819. 10 Claims. (Cl. 265—56.)

1. In a load resisting mechanism for scales, the combination of a beam and a fulcrum therefor, a poise slidable on the beam, a screw mounted on the beam for positioning the poise on the beam, an operating device for the screw, and connections including a flexible coupling



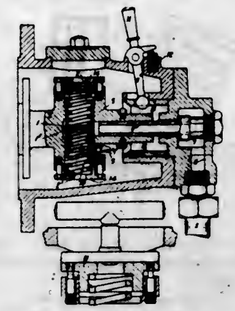
between said device and the screw permitting the screw and beam to swing substantially without friction.

1,347,207. GAGE. CHARLES E. COATS, New York, N. Y., assignor to Coats Machine Tool Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 6, 1919. Serial No. 328,726. 8 Claims. (Cl. 33—147.)



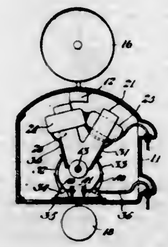
1. A device of the class set forth comprising a base, an upright post rigidly held to the base, a collar slidable on said post, meaps for holding the collar in its adjusted position, a laterally extending arm having an aperture through which the post extends, an adjusting nut slidable on the post and having right and left hand screw thread connections with the arm and collar, an indicating-fluid container sopported by said arm having a flexible lower wall, a transparent indicating tube communicating at its lower end with said container, and a plunger reciprocably supported on said arm below said container and adapted to flex the lower wall of the container when moved upwardly relatively to the arm.

1,347,208. GOVERNING AND EMERGENCY MECHANISM. DAVID COCKBURN and DONALD MACNICOLL, Cardonald, near Glasgow, Scotland. Filed Jan. 19, 1920. Serial No. 352,535. 4 Claims. (Cl. 137—140.)



1. In a governing device, the combination with a rotor, two tubular valves rotatable with said rotor, each of said valves presenting a seat to the other, both valves adapted to be lifted under the action of centrifugal force, and a fluid pressure conduit controlled by said valves.

1,347,209. DOUBLE-COIL OSCILLATING MOTOR. LOREN O. CRENSHAW, Los Angeles, Calif., assignor to Magnetic Signal Company, a Corporation of California. Filed May 7, 1919. Serial No. 295,795. 1 Claim. (Cl. 172—126.)

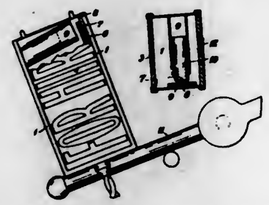


A double coil oscillating motor comprising a shaft; a pendulum dependent from said shaft; a magnet casting secured to said shaft and having two radial pairs of limbs both limbs of each radial pair being located in a radial plane to which said shaft is perpendicular, these planes being parallel to each other, the limbs in each radial plane being located in angular relationship to each other but so disposed as to form, with one of the limbs in the other radial plane, an axial pair both of the limbs of each axial pair being in a single axial plane which also contains the axis of said shaft, said axial planes forming a dihedral angle; an armature so located that it can come into magnetic relationship with each of said axial pairs as said shaft is rotated but being somewhat nearer one of said axial pairs than the other when said pendulum is in its lowest position; two coils each surrounding one of said limbs but being located in different radial and axial planes; means for energizing both of said coils; and means for deënergizing each coil as the limb on which it is placed comes into its position of maximum magnetic pull on said armature.

1,347,210. SIGNAL-FLAG FOR TAXICABS. ARTHUR CAICK, Bristol, England, assignor to Hugh Denham Sweetland and Albert James Owen, Bristol, England. Filed June 2, 1920. Serial No. 285,995. 2 Claims. (Cl. 40—138.)

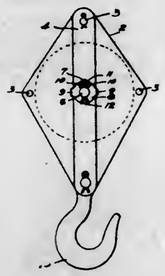
1. In a device of the kind described, the combination with a hollow signal flag; of an electric lamp mounted

within said flag, an open electric circuit whereto said lamp is connected, said circuit including normally spaced contacts, gravity means, within said flag engageable in one



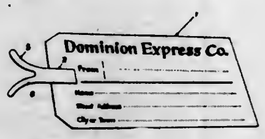
position of the flag with one of said contacts to close the same on the remaining contact, and means to pivotally support said flag.

1,347,211. ATTACHMENT FOR ROPE-BLOCKS. OLIVER CROSBY, St. Paul, Minn., assignor to American Hoist & Derrick Co., St. Paul, Minn., a Partnership. Filed Apr. 23, 1918. Serial No. 230,216. 3 Claims. (Cl. 254—192.)



1. The combination, with a rope block and a sheave axle mounted therein and having a socket and a cotter pin fitting said socket, of a washer interposed between said pin and block and having ribs formed thereon to engage said block and lock said washer against revolution, said washer having lugs spaced apart to receive one end of said cotter pin and also having a wedge-shaped lug formed thereon fitting between the diverging ends of said pin.

1,347,212. SHIPPING-TAG. DUNCAN ALFRED CUKE and FREDERICK JAMES TWILLEY, Montreal, Quebec, Canada. Filed Nov. 7, 1919. Serial No. 336,387. 1 Claim. (Cl. 40—26.)



A shipping tag comprising a card and a Y-shaped piece of pliable sheet metal clenched to one end of the card and having the crotch of the Y extending therebeyond forming projecting arms in a parallel plane to the card adapted to be curled in opposite directions around the cord of the package.

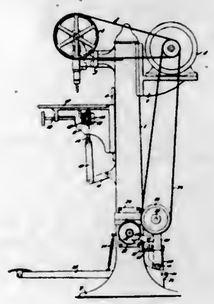
1,347,213. CLAMP FOR VULCANIZING-MACHINES. OSCAR T. DE LONG, Atlanta, Ga. Filed Feb. 16, 1920. Serial No. 358,976. 2 Claims. (Cl. 18—43.)

1. In a clamp for vulcanizing machines, a clamping member having means of attachment to a vulcanizing machine, the said clamp having an upwardly tapered seat and a bushing of like configuration fitting in the seat with



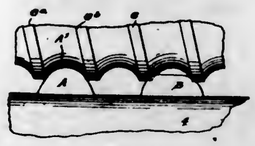
means for preventing rotation of the bushing with relation to the clamp.

1,347,214. DRILLING-MACHINE. ALEXANDER DOM, Cincinnati, Ohio, assignor to The Samuel C. Tatum Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 13, 1917. Serial No. 191,105. 4 Claims. (Cl. 74—46.)



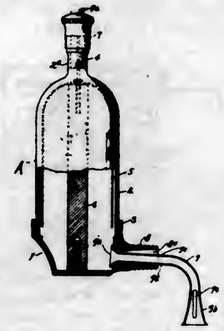
1. A transmission mechanism comprising a driving member, a driven member, a sliding clutch for connecting said driving and driven members, a clutch operating lever, a treadle lever pivotally supporting said clutch operating lever, and a latch member carried by said treadle lever for unitarily connecting said lever, whereby the clutch may be operated by said treadle lever.

1,347,215. SEPARATING-MACHINE. PHILIP EBY, Rochester, N. Y., assignor to Art In Buttons, Inc., Rochester, N. Y., a Corporation of New York. Substitute for application Serial No. 312,369, filed July 21, 1919; renewal of application Serial No. 21,540, filed Feb. 4, 1918; renewal of application Serial No. 114,705, filed Aug. 14, 1916. This application filed June 9, 1920. Serial No. 387,544. 11 Claims. (Cl. 83—92.)



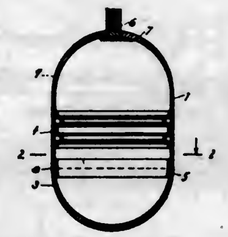
1. A separating machine comprising a pair of rotary members arranged in spaced relation to each other in substantially the same horizontal plane, and provided with alternately arranged cylindrical and spirally grooved portions, the spiral grooves increasing in size in the successive grooved portions from one end of the machine to the other, and disposed opposite cylindrical portions on the other member.

1,347,216. AIR-VALVE FOR RADIATORS. FRANK E. ETZEL, Montclair, N. J. Filed Apr. 15, 1919. Serial No. 290,172. 6 Claims. (Cl. 137—122.)



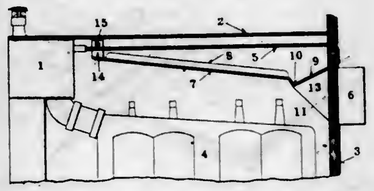
1. An air valve for radiators comprising a base or cup, and a mainly impervious drainage tube communicating therewith, said drainage tube having an opening in its wall to admit air and steam and having a widened entrance portion within the base or cup.

1,347,217. FLOAT. WILLIAM A. ENGELHARD, FRANK ENGELHARD, and FREDERICK H. ENGELHARD, Springfield, Mass. Filed Oct. 29, 1919. Serial No. 334,241. 11 Claims. (Cl. 137—104.)



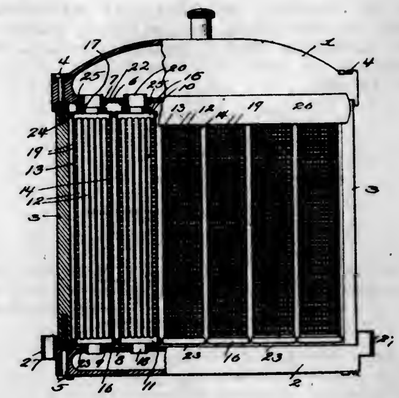
11. A float comprising a shell having hemispherical and cylindrical portions, such hemispherical portion being thicker than such cylindrical portion, a reinforcing ring within said cylindrical portion, a hemispherical shell joined to said cylindrical portion, a reinforcing and joint-closing ring within said shells, and a coating of metal on the exterior of said shells and over the joint therebetween, such coating being thickest at the bottom of the float.

1,347,218. RAIN-GUARD FOR MOTOR-VEHICLES. MARTIN J. FASSEL, St. Louis, Mo. Filed Aug. 28, 1919. Serial No. 320,332. 3 Claims. (Cl. 180—90.)



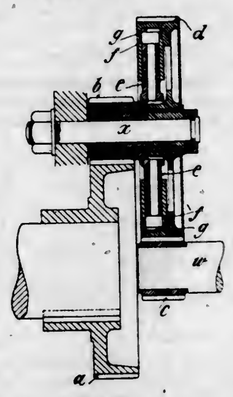
1. The combination with a radiator, engine, hood, and dash, of a motor vehicle, of a rain guard passing through the dash and adapted to intercept the water on the inside of the dash above the coil box and convey the same through the dash, said guard extending over the engine to a point adjacent to the radiator, said guard sloping at both ends to a discharge point intermediate of its ends.

1,347,219. SECTIONAL RADIATOR. WALTER I. GIBSON, New Orleans, La., assignor of one-third to Edward R. Greenlaw and one-third to Frederick M. Mills, New Orleans, La. Filed June 13, 1917. Serial No. 174,534. 2 Claims. (Cl. 257—129.)



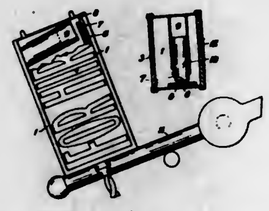
2. In a radiator, the combination of upper and lower reservoirs, the lower wall of the upper reservoir and the upper wall of the lower reservoir having corresponding openings therein, a plurality of cooling sections adapted to occupy the space between the reservoirs, each section having exteriorly tapered nipples projecting from the center of its upper and lower ends, the nipples on the lower end of the section frictionally and removably fitting in the respective opening in the lower reservoir, and a cylindrical nipple for each section adjustably threaded in the corresponding opening in the upper reservoir and telescopically fitted over and receiving the exteriorly tapered nipple on the upper end of the section adjacent thereto, said cylindrical nipple being operative to produce and maintain compression between the upper and lower ends of the section and the respective reservoirs.

1,347,220. GEARING FOR CONNECTING COAXIAL SHAFTS. FREDERICK MICHAEL GREEN and SAM DALZIEL HERON, Parkside, Coventry, England, assignors to Siddeley-Deasy Motor Car Company Limited, Parkside, Coventry, England. Filed July 22, 1918. Serial No. 246,209. 5 Claims. (Cl. 74—7.)



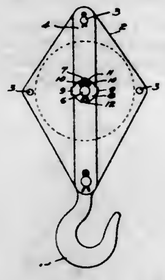
1. A gearing for coupling co-axially arranged shafts comprising a spur wheel on each of said shafts, a plurality of stationary intermediate axles arranged in parallel relation to the co-axially arranged shafts, two spur wheels on each of said intermediate axles, said wheels gearing re-

within said flag, an open electric circuit whereto said lamp is connected, said circuit including normally spaced contacts, gravity means, within said flag engageable in one



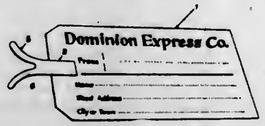
position of the flag with one of said contacts to close the same on the remaining contact, and means to pivotally support said flag.

1,347,211. ATTACHMENT FOR ROPE-BLOCKS. OLIVER CROSBY, St. Paul, Minn., assignor to American Hoist & Derrick Co., St. Paul, Minn., a Partnership. Filed Apr. 23, 1918. Serial No. 230,216. 3 Claims. (Cl. 254—192.)



1. The combination, with a rope block and a sheave axle mounted therein and having a socket and a cotter pin fitting said socket, of a washer interposed between said pin and block and having ribs formed thereon to engage said block and lock said washer against revolution, said washer having lugs spaced apart to receive one end of said cotter pin and also having a wedge-shaped lug formed thereon fitting between the diverging ends of said pin.

1,347,212. SHIPPING-TAG. DUNCAN ALFRED CUKE and FREDERICK JAMES TWILLEY, Montreal, Quebec, Canada. Filed Nov. 7, 1919. Serial No. 336,387. 1 Claim. (Cl. 40—26.)



A shipping tag comprising a card and a Y-shaped piece of pliable sheet metal clenched to one end of the card and having the crotch of the Y extending therebeyond forming projecting arms in a parallel plane to the card adapted to be curled in opposite directions around the cord of the package.

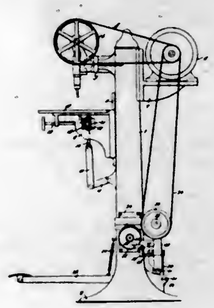
1,347,213. CLAMP FOR VULCANIZING-MACHINES. OSCAR T. DE LONG, Atlanta, Ga. Filed Feb. 16, 1920. Serial No. 358,976. 2 Claims. (Cl. 18—43.)

1. In a clamp for vulcanizing machines, a clamping member having means of attachment to a vulcanizing machine, the said clamp having an upwardly tapered seat and a bushing of like configuration fitting in the seat with



means for preventing rotation of the bushing with relation to the clamp.

1,347,214. DRILLING-MACHINE. ALEXANDER DOM, Cincinnati, Ohio, assignor to The Samuel C. Tatum Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 13, 1917. Serial No. 191,105. 4 Claims. (Cl. 74—46.)



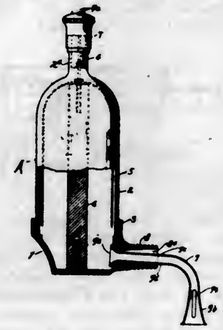
1. A transmission mechanism comprising a driving member, a driven member, a sliding clutch for connecting said driving and driven members, a clutch operating lever, a treadle lever pivotally supporting said clutch operating lever, and a latch member carried by said treadle lever for unitarily connecting said lever, whereby the clutch may be operated by said treadle lever.

1,347,215. SEPARATING-MACHINE. PHILIP EBY, Rochester, N. Y., assignor to Art In Buttons, Inc., Rochester, N. Y., a Corporation of New York. Substitute for application Serial No. 312,369, filed July 21, 1919; renewal of application Serial No. 21,540, filed Feb. 4, 1918; renewal of application Serial No. 114,705, filed Aug. 14, 1916. This application filed June 9, 1920. Serial No. 387,544. 11 Claims. (Cl. 83—92.)



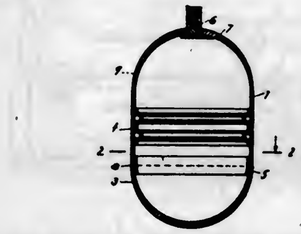
1. A separating machine comprising a pair of rotary members arranged in spaced relation to each other in substantially the same horizontal plane, and provided with alternately arranged cylindrical and spirally grooved portions, the spiral grooves increasing in size in the successive grooved portions from one end of the machine to the other, and disposed opposite cylindrical portions on the other member.

1,347,216. AIR-VALVE FOR RADIATORS. FRANK E. ETZEL, Montclair, N. J. Filed Apr. 15, 1919. Serial No. 290,172. 6 Claims. (Cl. 137—122.)



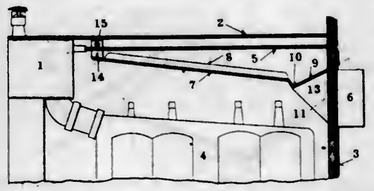
1. An air valve for radiators comprising a base or cup, and a mainly impervious drainage tube communicating therewith, said drainage tube having an opening in its wall to admit air and steam and having a widened entrance portion within the base or cup.

1,347,217. FLOAT. WILLIAM A. ENGELHARD, FRANK ENGELHARD, and FREDERICK H. ENGELHARD, Springfield, Mass. Filed Oct. 29, 1919. Serial No. 334,241. 11 Claims. (Cl. 137—104.)



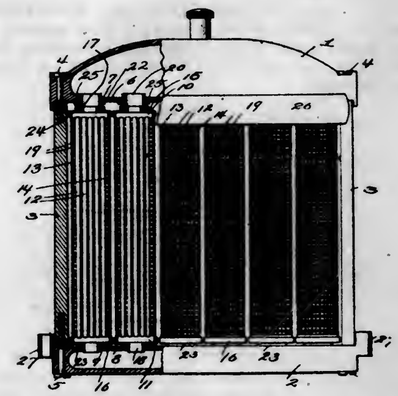
11. A float comprising a shell having hemispherical and cylindrical portions, such hemispherical portion being thicker than such cylindrical portion, a reinforcing ring within said cylindrical portion, a hemispherical shell joined to said cylindrical portion, a reinforcing and joint-closing ring within said shells, and a coating of metal on the exterior of said shells and over the joint therebetween, such coating being thickest at the bottom of the float.

1,347,218. RAIN-GUARD FOR MOTOR-VEHICLES. MARTIN J. FASSEL, St. Louis, Mo. Filed Aug. 28, 1919. Serial No. 320,332. 3 Claims. (Cl. 180—90.)



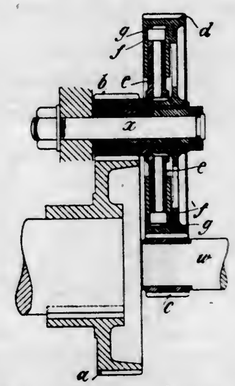
1. The combination with a radiator, engine, hood, and dash, of a motor vehicle, of a rain guard passing through the dash and adapted to intercept the water on the inside of the dash above the coil box and convey the same through the dash, said guard extending over the engine to a point adjacent to the radiator, said guard sloping at both ends to a discharge point intermediate of its ends.

1,347,219. SECTIONAL RADIATOR. WALTER I. GIBSON, New Orleans, La., assignor of one-third to Edward R. Greenlaw and one-third to Frederick M. Mills, New Orleans, La. Filed June 13, 1917. Serial No. 174,534. 2 Claims. (Cl. 257—129.)



2. In a radiator, the combination of upper and lower reservoirs, the lower wall of the upper reservoir and the upper wall of the lower reservoir having corresponding openings therein, a plurality of cooling sections adapted to occupy the space between the reservoirs, each section having exteriorly tapered nipples projecting from the center of its upper and lower ends, the nipples on the lower end of the section frictionally and removably fitting in the respective opening in the lower reservoir, and a cylindrical nipple for each section adjustably threaded in the corresponding opening in the upper reservoir and telescopically fitted over and receiving the exteriorly tapered nipple on the upper end of the section adjacent thereto, said cylindrical nipple being operative to produce and maintain compression between the upper and lower ends of the section and the respective reservoirs.

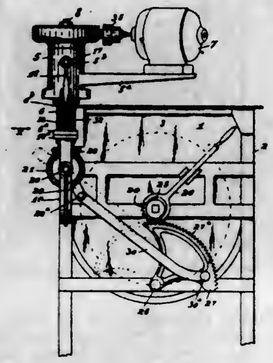
1,347,220. GEARING FOR CONNECTING COAXIAL SHAFTS. FREDERICK MICHAEL GREEN and SAM DALZIEL HEBON, Parkside, Coventry, England, assignors to Siddeley-Deasy Motor Car Company Limited, Parkside, Coventry, England. Filed July 22, 1918. Serial No. 246,209. 5 Claims. (Cl. 74—7.)



1. A gearing for coupling co-axially arranged shafts comprising a spur wheel on each of said shafts, a plurality of stationary intermediate axles arranged in parallel relation to the co-axially arranged shafts, two spur wheels on each of said intermediate axles, said wheels gearing re-

spectively with the spur wheels on the co-axially arranged shafts, and automatic clutches which operate by centrifugal action to effect a couple between the two spur wheels on each of the intermediate axles.

1,347,221. GEARING FOR LAUNDRY MACHINERY. JOHN H. HENDRICKSON, Cleveland, Ohio, assignor to The Hendrickson Machine Company, Cleveland, Ohio. Filed Aug. 25, 1919. Serial No. 319,615. 4 Claims. (Cl. 74—50.)



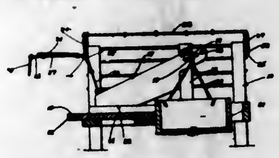
3. In laundry machinery, the combination with a tub and a rotatable cylinder mounted on trunnions in said tub; of a spur pinion mounted on one of the cylinder trunnions; a clutch for connecting said pinion with the trunnion; a segmental gear rack fulcrumed on the tub below the cylinder axis, and in mesh with said pinion; a rotatable housing mounted above the tub; a bracket provided therefor; a motor carried on said housing; a vertical shaft journaled in said housing and in the bracket; gear mechanism connecting said shaft and the motor; a bevel gear on said shaft, a companion gear coacting with said bevel gear; a horizontal shaft journaled in the bracket carrying the companion gear; an eccentric connecting rod connected with an arm provided on the companion gear, and with the segmental gear rack, for driving the cylinder; an operating device attached to the rotatable housing, said operating device containing a pair of rotary elements; gear mechanism connecting one of the rotary elements with the vertical shaft, for driving said element; and clutch mechanism co-acting with the last named gear mechanism, for reversing the operation of the rotary elements.

1,347,222. INDEX AND MEMORANDUM PAD HOLDER. LOUIS A. HUFSCHMIDT, San Francisco, Calif. Filed June 12, 1919. Serial No. 303,653. 3 Claims. (Cl. 40—10.)



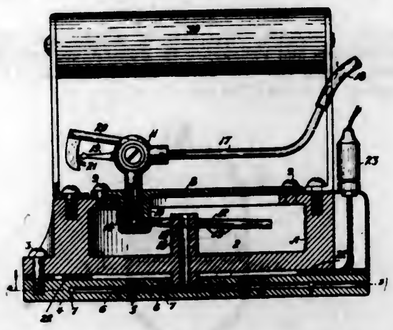
1. In a device of the character described a holder comprising a central rectangular partition wall, flanges formed along three sides of each of the faces of said wall, spring members disposed beneath certain of the flanges for holding index cards in position, a fixed back plate for said holder and means upon the back plate for detachably engaging the holder to permit it to be reversibly held upon the plate.

1,347,223. HEN'S NEST. ALBERT S. JOHNSON, Irwin, Mo., assignor of four-fifths to John Peterson, J. M. Conner, W. S. Grant, Floyd L. Fluke, H. A. Gorsuch, J. T. Alsup, W. M. Herd, and F. R. Burritt, county of Delta, Colorado. Filed July 15, 1919. Serial No. 310,969. 1 Claim. (Cl. 119—49.)



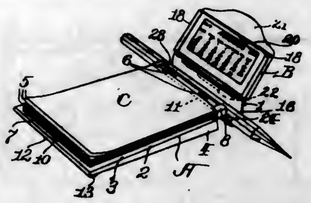
A nest including a frame, a swinging door in one end thereof, a rod forming the pivotal support for the door, a top wall having corner legs with eyes, certain of said eyes being engaged with said rod for pivotal support of the top wall, and a removable rod carried by the other end of the frame and engageable through the remaining eyes for holding the top closed.

1,347,224. ELECTRIC STEAM-IRON. SHINTARO KAKO, Los Angeles, Calif. Filed Nov. 5, 1918. Serial No. 261,184. 4 Claims. (Cl. 68—26.)



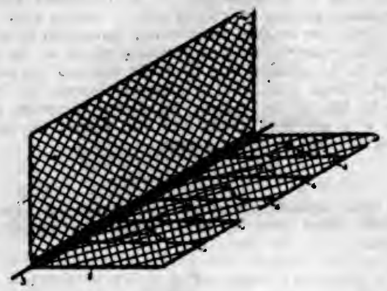
1. A flat-iron smoothing and sprinkling device including superposed smoothing and water-containing and distributing members with an interposed trap, a source of supply, and a valve connected with the distributing members, a water supply indicator, including an arm connected with the valve, and a graduated arc carried thereby and a stationary pointer coacting with the arc.

1,347,225. DESK-PAD AND CALENDAR-HOLDER. FRANK J. KRISTOFEK, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed May 17, 1917. Serial No. 169,853. 5 Claims. (Cl. 281—4.)



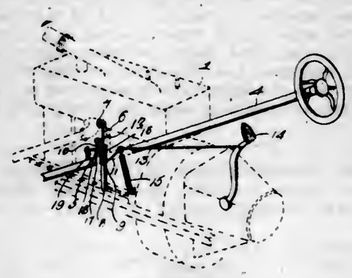
2. A desk pad and calendar holder, comprising a scratch pad holding means formed from a single piece of material, transverse cylindrical supports at the upper and lower end of said holder, a pencil holding groove formed in said upper support and a calendar-holding means pivoted to said upper support.

1,347,226. METHOD OF MANUFACTURING SHEETS OF EDIBLE GELATIN. ROBERT ATKINSON MCQUITTY, London, England. Filed June 20, 1919. Serial No. 305,652. 4 Claims. (Cl. 18—15.)



2. A method of manufacturing sheets of edible gelatin in which a coating of liquid gelatin is spread over a flexible foundation, dried thereon and the sheet thus produced stripped therefrom and cut into smaller sheets and these sheets placed in wire netting frames and then momentarily dipped in a bath of water and finally redried in said frames under the influence of a blower.

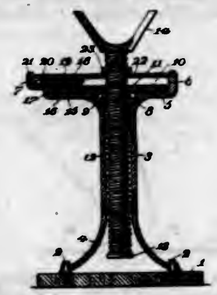
1,347,227. ACCELERATOR FOR AUTOMOBILES. CHARLES L. MITCHELL, Randolph, Nebr. Filed June 26, 1917. Serial No. 177,029. 2 Claims. (Cl. 74—81.)



1. An accelerator for automobiles comprising a standard adapted for securement adjacent the throttle rod connecting arm of an engine structure, a length of wire coiled on the standard to form a sleeve and having one end extended laterally to form an arm adapted for connection with a carbureter throttle valve, and its other end also extended laterally to form an arm, a foot pedal connection for said second arm of the wire, a second length of wire coiled on the standard to form a collar, one end of said coil being extended to form an arm adapted for connection with the throttle rod connecting arm and the other end of the coil being extended and laterally turned to engage the first specified arm of the first named collar coil.

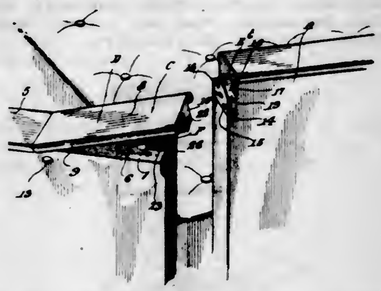
1,347,228. AUTOMOBILE-JACK. JOHN W. PAXSON, Philadelphia, Pa. Filed Nov. 17, 1919. Serial No. 338,484. 3 Claims. (Cl. 254—103.)

1. A lifting jack, comprising the combination of a hollow member, provided with a flange upon its upper end portion, a gear wheel revolubly mounted with respect to said flange and provided with a central threaded aperture, a threaded rod extending through said aperture, a pinion mounted upon said flange and meshing with said gear, an operating member secured to revolve with said pinion, a plate supported in spaced relation



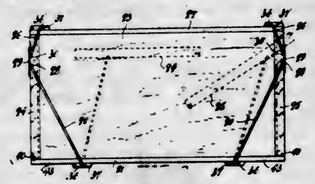
above said flange, and means for supporting said pinion and said last-named member journaled in said flange and in said plate.

1,347,229. AUTOMOBILE-DOOR LATCH. HARMON SCHLEY RICHARDSON, Massillon, Ohio. Filed Nov. 5, 1919. Serial No. 335,853. 8 Claims. (Cl. 292—230.)



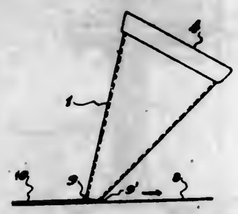
1. A latch for automobile doors including a keeper, a casing, a latching lever carried by the casing, a longitudinal rib formed on the lever and arranged to engage the casing to prevent the lateral movement of the latching lever in relation to the casing, the forward end of the rib being adapted to engage the keeper.

1,347,230. COLLAPSIBLE BOX, CASE, OR CRATE. RICHARD HENRY ROBERTS, Henderson, Auckland, New Zealand, assignor to Percy Nichol Kingswell, One Tree Hill, Auckland, New Zealand, trustee for Angle Brace Collapsible Box Syndicate. Filed Sept. 24, 1918. Serial No. 255,503. 5 Claims. (Cl. 217—15.)



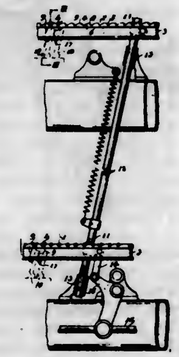
1. A collapsible box having a bottom, detachable sides and ends, a removable cover, lower pivoted braces extending from the bottom diagonally across the sides and horizontally across the ends, upper diagonal braces pivoted to the cover and passing diagonally across the sides and horizontally across the ends when the box is erected, means on the box ends for retaining said upper braces when the box is erected and means on the bottom for engaging the upper braces and holding the parts in the collapsed position.

1,347,231. CONTAINER AND DISPENSING DEVICE. CURTIS J. ROTHERMEL, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of West Virginia. Filed Mar. 12, 1918. Serial No. 221,997. 8 Claims. (Cl. 229—1.)



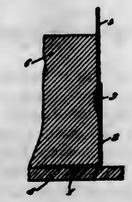
1. A combined container and dispensing device, consisting of a tapering vessel made of flexible material; a flat metal closure for said vessel extending beyond said flexible material in an axial direction; the small end of said vessel being cut off in a plane at an angle to its axis so that it will operate as a dispensing device whereby the distribution of its contents can be thereby controlled.

1,347,232. SHUTTLE-OPERATING MECHANISM FOR EMBROIDERING-MACHINES. HIPPOLYT SAURER, Arbon, Switzerland. Filed Nov. 7, 1919. Serial No. 336,433. 5 Claims. (Cl. 112—95.)



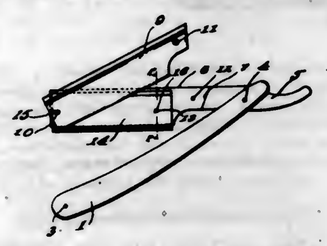
1. In a shuttle operating mechanism for an embroidering machine, the combination of a longitudinally movable shuttle actuating pin, a shuttle operating bar, and means to press the pin against the bar, the pin and the bar having a relatively oblique bearing surface, the one against the other, whereby, as the pin and bar become worn at their bearing surface, the pin is pressed closely against the bar and relative lateral movement of the pin is prevented.

1,347,233. TAG-HOLDER. FRANK GROVER SHUMAN, Chicago, Ill. Filed Oct. 18, 1918. Serial No. 258,681. 1 Claim. (Cl. 40—12.)



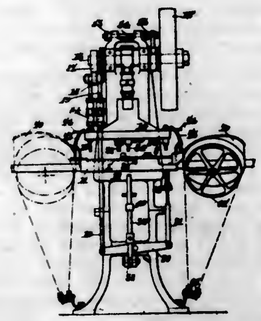
A tag holder in the form of an L-shaped member comprising a base and a front plate disposed at right angles to the base, the front plate having upstanding card supporting tongues, the tongues being located relatively near to the lateral edges of the front plate thereby to space the tongues a maximum distance apart and to render them effective as a card supporting means, the tongues being located close to the upper edge of the front plate whereby a maximum portion of a card will be visible above the front plate, the tongues being struck rearwardly from the front plate whereby when an article is placed on the base, a card in the tongues may be bound between the article and the front plate and be supported above the front plate by the article, thereby permitting the front plate to be of a minimum height and still permit the use of a card of relatively great height.

1,347,234. RAZOR. WILLIAM A. STEBBINS, Seattle, Wash. Filed Nov. 4, 1918. Serial No. 261,033. 2 Claims. (Cl. 30—25.)



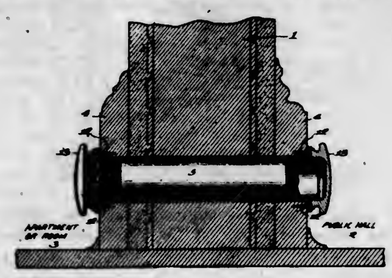
1. A razor including a carrier bar provided with a tang and having a portion of its inner face removed and equipped with a blade, a bar to clamp said blade pivoted at one end to the carrier bar, said pivot performing the additional function of seating the end of the blade and positioned medial of the blade to admit of a reversal of the blade edges, said means including a pin likewise medially positioned and having its opposite end formed to co-act with the latter to limit movement of the said carrier bar, and means to secure the clamping bar to the latter.

1,347,235. MACHINE FOR MAKING METAL BUTTONS. HENRI TOURNEUR, Paris, France. Filed May 14, 1914. Serial No. 838,453. 7 Claims. (Cl. 79—3.)



1. In a button making machine, the combination of a pair of coöperating, relatively-movable work carriers provided with feeding notches; tools operable on the work on said carriers; a pawl carrier; pawls carried thereby and engageable in said notches to feed said work carriers relatively to the tools; a drive shaft; a link eccentrically connected therewith at one end; a bell-crank lever having one arm operatively connected with the pawl carrier; a pin-and-slot connection between the other arm of the bell-crank lever and the other end of said link; and a weight operatively associated with said bell-crank lever.

1,347,236. WALL SERVICE-BUSHING FOR VACUUM CLEANING AND OTHER SYSTEMS. HERMAN M. UNDERWOOD, New York, N. Y. Filed May 27, 1916. Serial No. 100,393. 3 Claims. (Cl. 137—111.)

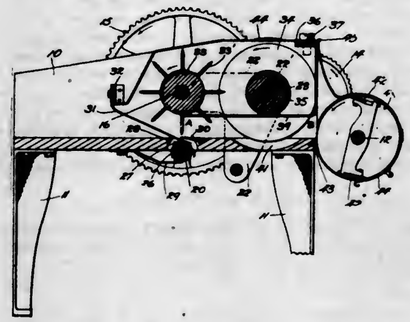


1. In a system of piping for vacuum cleaning and other purposes, a wall bushing fixture comprising a tube or conduit embodied in a wall with ends opening at opposite sides of the wall to constitute a portion of a service line, means for separable attachment of other portions of the service line with the opposite ends of the tubular bushing, and detachable coverings for both ends of the tubular bushing said coverings constituting a normal part of the fixture and serving to prevent communication through the bushing when disconnected from other portions of the service line.

2. In a system of piping for vacuum cleaning and other purposes, a wall bushing comprising a tube or conduit embodied in a wall with ends opening at opposite sides of the wall to constitute a portion of a service line, a system pipe having an outlet in its length, means for detachably connecting a service line at one end with said outlet of the system pipe and at the other end detachably with the wall bushing, and means for detachably connecting the opposite end of the tubular bushing with a portion of a service line leading to a cleaning tool.

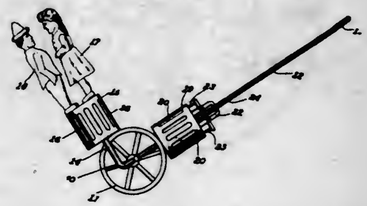
3. In a system of piping for vacuum cleaning and other purposes, a wall bushing comprising a tube or conduit embodied in a wall with ends opening at opposite sides of the wall to constitute a portion of a service line, lock nuts attached to the wall bushing at opposite sides of the wall, and closure caps detachably applied to opposite ends of the bushing.

1,347,237. COMBINED CUTTER AND SCRAPER. EDWARD C. WADDINGTON, Woodstown, N. J. Filed Feb. 18, 1919. Serial No. 277,865. 5 Claims. (Cl. 17—18.)



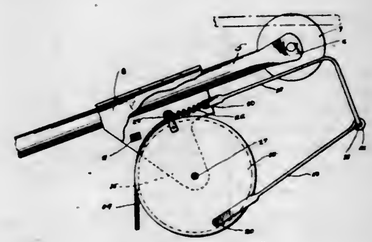
1. A machine of the character stated comprising a fixed trough-like frame, a horizontally disposed scraper-knife mounted upon the floor of said frame for scraping or cutting the fleshy part of meat from hide, means for slicing said fleshy parts into elongated strips, means for feeding said fleshy parts as removed along the floor of said frame toward said slicing means, a cylinder provided with pointed projections rotatable in a plane below and paralleling said feeding means for guiding said hide beneath the floor of said frame in a direction away from said slicing means and means for cutting said strips into small rectangular particles.

1,347,238. TOY. JOSEF WIETECHA, Detroit, Mich., assignor to Nellie Nigbor, Detroit, Mich. Filed Nov. 13, 1919. Serial No. 337,636. 4 Claims. (Cl. 46—45.)



1. In a toy, the combination with a wheel of a handle for pushing and pulling said wheel along a floor and a plurality of drums adapted to be rotated by the rotation of said wheel, one of said drums carrying figural objects and the other a sound producing element, and means for engaging and disengaging one of said drums from said wheel.

1,347,239. TROLLEY-FINDER. WILLIAM F. YANCEY, Portsmouth, Va. Filed July 15, 1919. Serial No. 310,892. 2 Claims. (Cl. 191—84.)

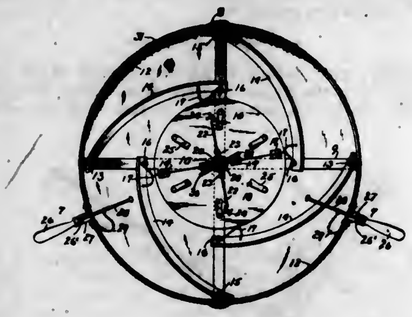


2. An attachment for trolley poles comprising a sleeve for engagement over the pole and having depending side portions, a clamping bolt engaged through the side portions and under the influence of which they are movable toward each other into clamping relation to the pole, a crank disk rotatably mounted between the side portions, a yoke comprising side arms pivoted at one end upon the bolt and having a connecting bight at their other ends centrally displaced in one direction of pivotal movement of the yoke, a trolley rope attached to the disk and adapted to be wound and unwound peripherally thereof, a spring connected with the disk and the bolt in position to hold the disk normally with the rope wound thereon and a pitman connecting the bight of the yoke with the disk.

1,347,240. LIFE-BUOY. ANTON ZUBRYD, Jersey City, N. J., assignor of one-half to Porfyrij Kiselycia, Jersey City, N. J. Filed Oct. 6, 1919. Serial No. 328,724. Renewed June 1, 1920. Serial No. 385,765. 5 Claims. (Cl. 9—4.)

1. A life buoy comprising a framework formed of a plurality of hoops, curved brace arms extending between

the hoops to maintain the same in set up position, a vertical post within the hoops, a platform hinged at oppo-



site sides of said post and a waterproof covering for said hoops.

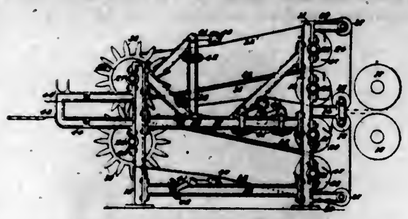
1,347,241. INDEX-TAB. GEORGE J. AIGNER, Chicago, Ill. Original application filed May 14, 1917, Serial No. 168,447. Divided and this application filed July 5, 1917. Serial No. 178,830. 2 Claims. (Cl. 40—2.)



1. A series of index tabs arranged in the form of a strip according to a predetermined arrangement, each of the tabs having a horizontal body portion composed of a folded portion, and attachment legs for each of the tabs projecting angularly from the rear end of the horizontal body portion, one upwardly and one downwardly when the tab is attached to a vertically-disposed sheet, the consecutive tabs of the strip being connected together only by narrow severable attachments at the extreme front edge of the strip holding the tabs in their predetermined arrangement in the strip but permitting of them being readily detached from each other for use.

1,347,242. INTERFOLDING-MACHINE. GEORGE H. BARTLETT, San Francisco, Calif. Filed May 5, 1919. Serial No. 294,751. 9 Claims. (Cl. 270—39.)

2. In an interfolding machine, a pair of rotary folding rolls, two pairs of perforating rolls, conveyer elements for each folding roll engaged about the latter and about one perforating roll of each pair of the latter and



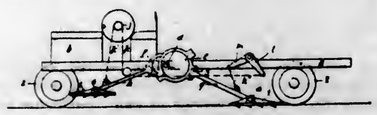
other conveyer elements engaged about the same perforating roll of each pair of the latter and coöperating with the first named conveyer elements.

1,347,243. VALVE-GRINDING TOOL. EDSON L. BEARDSLEY, Columbus, Ohio, assignor to The Loomis Beardsley Mfg. Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 25, 1918, Serial No. 224,456. Renewed June 10, 1920. Serial No. 387,989. 1 Claim. (Cl. 74—14.)



A valve grinder comprising a rotatable stem, a gear fixed to said stem adjacent to the upper end of the latter, a casing carried by said stem and capable of being maintained in a stationary position during the rotation of the stem, a guide member carried by said casing and including curved finger elements, a reciprocatory actuating device disposed within said guide member, said device being formed from stamped sheet metal and having vertically disposed ribs, the latter being situated so as to be received and guided by said fingers, and said actuating device being provided with a series of apertures disposed to mesh with said gear, whereby upon the operation of said device said gear and stem will be oscillated.

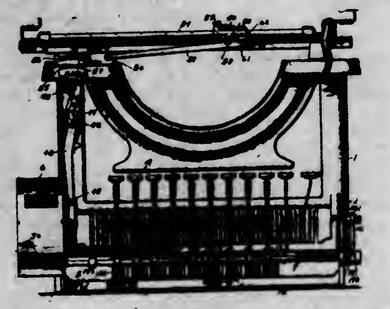
1,347,244. HEAVY MOTOR-TRACTOR. RAOUL BERNAT, Bordeaux, France. Filed Apr. 3, 1918. Serial No. 226,542. 3 Claims. (Cl. 180—8.)



1. In a high power tractor, the combination of a chassis having front and rear wheels; a motor mounted

on the chassis; two sets of pushing crutches embodying limbs pivotally mounted at their upper ends for lateral swinging movement and shoes pivotally connected to the lower ends of said limbs for vertical swinging movement, one set of crutches for propelling the tractor forwardly and the other set for propelling it rearwardly; mechanism for alternatively lowering or raising either set of crutches toward or from the ground to throw it into or out of action and to control the duration of engagement of the shoes with the ground and, consequently, the direction and speed of the tractor; operating connections between the motor and the crutch sets; driving connections between the motor and the rear wheels; and crutch mechanism operable to throw either driving connection into action to enable the tractor to be turned in either direction.

1,347,245. CALCULATING-MACHINE. HEBSTER A. BOWERS, Reading, Pa. Filed June 22, 1912, Serial No. 705,257. Renewed Dec. 3, 1919. Serial No. 342,303. 51 Claims. (Cl. 235—59.)



1. In a calculating machine a series of index wheels, a transmitting gear for each index wheel, a pinion between the index wheel and transmitting gear in mesh with the index wheel but normally out of mesh with the transmitting gear, a sliding gear arranged to be brought in mesh with each of the transmitting gears in turn, means for rotating the sliding gear, a slide for shifting the gear and means operated by the slide for moving the pinion into mesh with the transmitting gear to be operated by the sliding gear.

4. In a calculating machine, a series of index wheels, a shaft on which the index wheels are mounted to rotate, a transmitting gear for each index wheel, a bell crank lever for each index wheel mounted to swing on the shaft on which the index wheels are mounted and having a rearwardly extending arm and a downwardly extending arm, a pinion carried by each arm in mesh with the index wheel and adapted to mesh with the transmitting gear, means for swinging the bell crank lever into position to bring the pinion carried by the downwardly extending arm into mesh with the transmitting gear, means for locking the bell crank lever in such position, and means for unlocking the bell crank lever and swinging it into position to bring the pinion on the rearwardly extending arm into mesh with the transmitting gear.

7. In a calculating machine for use with a typewriting machine having a paper carriage and numeral keys, a series of index wheels, a shaft on which the index wheels are mounted to rotate, a transmitting gear for each index wheel, a bell crank lever for each index wheel mounted to swing on the shaft on which the index wheels are mounted and having a rearwardly extending arm and a downwardly extending arm, a pinion carried by each arm in mesh with the index wheel and adapted to mesh with the transmitting gear, means for swinging the bell crank lever into position to bring the pinion carried by the downwardly extending arm into mesh with the transmitting gear, means for locking the bell crank lever in such position, a slide movable parallel with the line of the shaft on which the index wheels are mounted, means operated by the paper carriage for moving the slide, and means operated by the slide for unlocking the bell crank lever and swinging it into position to bring the pinion on the upwardly extending arm into mesh with the transmitting gear.

11. In a calculating machine for use with a typewriting machine having a paper carriage and numeral keys, in combination with the paper carriage and numeral keys, a series of index wheels, a shaft on which the index wheels are mounted to rotate, a transmitting gear for each index wheel, a bell crank lever for each index wheel mounted to swing on the shaft on which the index wheels are mounted, a pinion carried by each arm of the bell crank lever in mesh with the index wheel and each adapted to mesh also with the transmitting gear and means operated by the paper carriage for swinging the bell crank lever to bring one or the other of the pinions into mesh with the transmitting gear and means operated by the numeral keys for rotating the transmitting gear.

17. The combination with a shaft and means for rotating it, of a ratchet wheel fast on the shaft, a sleeve mounted to rotate on the shaft carrying a spring pressed pawl adapted to travel over the teeth of the ratchet wheel in one direction, and means for rotating the sleeve simultaneously with the rotation of the shaft.

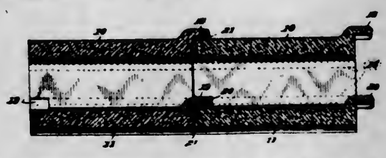
1,347,246. MOTOR-CAR SIGNAL. NEWMAN T. BROWN, Seattle, Wash. Filed Feb. 20, 1918. Serial No. 218,277. 14 Claims. (Cl. 116—46.)



1. A turning and stopping signal, comprising a casing having a movable closure; a signal in said casing mounted on said closure; means for opening said closure; and means for automatically projecting said signal when said closure is opened longitudinally of and beyond the outer end of the closure.

2. A turning and stopping signal, comprising a casing having an outwardly-swinging closure; a signal mounted slidably on said closure and normally housed in said casing; means for swinging said closure outwardly; and means for automatically sliding said signal longitudinally of and beyond said closure when the latter so so swung.

1,347,247. SEGMENT-BLOCK. MARSHALL CAINE, Barberton, Ohio. Filed Dec. 3, 1918. Serial No. 265,161. 4 Claims. (Cl. 72—38.)

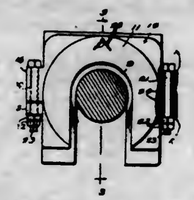


4. A segment block including concentric spaced arcuate inner and outer walls connected by radial walls to form an open longitudinal air passage in the block, an offset outwardly projecting arcuate flange formed upon the inner wall at one end of the block and arranged for reception within the end of the air passage of an adjacently positioned similar block, and an offset outwardly projecting arcuate hub flange formed upon the outer wall at said one end of the block.

1,347,248. REMOVABLE BEARING-PLATE. BUEL H. CANADY, Winslow, Ariz. Filed Jan. 15, 1920. Serial No. 351,681. 4 Claims. (Cl. 64—25.)

2. The combination with a journal box, of lugs secured to one end thereof and having upper inclined faces, said

lugs having openings formed therethrough, a removable bearing plate to engage the end of the journal box and to be separated therefrom by a vertical movement, lugs



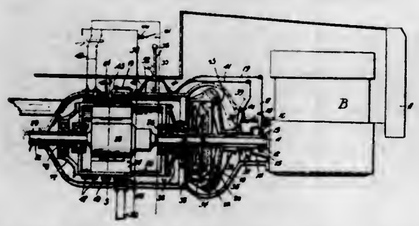
carried by the removable bearing plate and provided with inclined faces to engage the first named inclined faces, the second named lugs having openings, and bolts passing through the openings of the first and second named lugs.

1,347,249. HAND-SEEDER. AMANDO M. CASTILLO, Aringay, Philippine Islands. Filed July 29, 1918. Serial No. 247,266. 5 Claims. (Cl. 111—92.)



1. In a hand seeder, the combination with a body having at its upper portion a seed hopper and spout and at its lower portion a tubular guide recessed at its lower end and notched in the wall of the recess; of a seed tube slidably mounted in said guide, its upper and lower ends being closed and its wall having delivery openings just above its lower end and an inlet port adapted to communicate with said spout when the tube is raised, a spring pressing said tube normally downward, a shoulder around its lower end beneath its delivery openings, a sleeve slidable around said lower end above the shoulder and within said recess, a spring bearing said sleeve normally downward, a latch on the sleeve adapted to engage said notch when the sleeve is raised by the rise of the tube, and means on the tube for tripping said latch by the descent of the tube.

1,347,250. ELECTROMECHANICAL PROPELLING AND TRANSMITTING MECHANISM. ABSOLAM F. CLARK, Los Angeles, Calif. Filed Mar. 27, 1917. Serial No. 157,699. 8 Claims. (Cl. 290—23.)



1. In a power unit, the combination with a gas engine, and a driven shaft, of a dynamo-electric machine having rotatable sections one of which is connected to the driven shaft, clutching means between the gas engine and the driven shaft, a second clutching means between the gas engine and the other section of the dynamo-electric machine, and means for controlling the rotation of said other section of the dynamo-electric machine and adapted to maintain the same stationary when said second clutching means is inoperative.

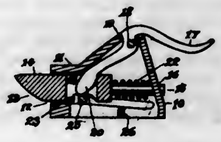
2. In a power unit, and in combination, a dynamo-electric machine having independently rotatable sections, a driven shaft connected to one of said sections, a gas engine, a clutch between the gas engine and the driven shaft, a second clutch between the gas engine and the other dynamo-electric machine section, means for controlling the rotation of said other section, and a connection between said last-named means and said first clutch to hold the said other section of the dynamo-electric machine stationary when said first clutch is engaged.

3. In a power unit, the combination with an internal combustion engine and a drive shaft, of an armature carried by said drive shaft, a field member rotatably mounted about the armature, a clutch member on the drive shaft, a second clutch member on the field member, a brake for application to the field member, and complemental clutch members on the shaft of the engine adapted to be interlocked one at a time with the clutch members upon the drive shaft and the field member.

4. In a power unit, the combination with an internal combustion engine and a drive shaft, of an armature carried by the drive shaft, a field member rotatably mounted about the armature, a pair of clutch members independently shiftable upon the crank shaft of the engine, clutch members on the drive shaft and the field member, a brake for application to the field member to control the turning of the same, and a connection between the clutch members of the crank shaft and the drive shaft and said brake member for simultaneously interlocking the drive shaft and the armature to the crank shaft and arresting the rotation of the field member.

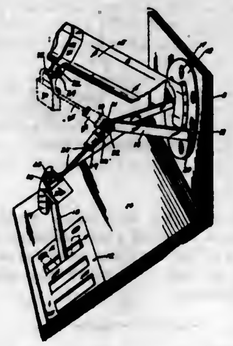
5. In a power unit, the combination with an internal combustion engine and a drive shaft, of an armature mounted on the drive shaft, a field member rotatably mounted about the armature, clutch members on the drive shaft and on the field member, a pair of independently shiftable clutch members mounted on the crank shaft of the engine, means for operating said clutch members for interlocking engagement one at a time with the clutch members of the drive shaft and the field member, and a brake connected to the field member for controlling the operation thereof and having connection with the clutch member of the crank shaft adapted for interlocking engagement with the drive shaft.

1,347,251. LOCK, BOLT, OR CATCH FOR DOORS, WINDOWS, SHUTTERS, OR THE LIKE. THOMAS P. CONLON, New York, N. Y. Filed Oct. 25, 1915. Serial No. 57,783. 4 Claims. (Cl. 292—335.)



1. In a locking device, a casing, a spring bolt in said casing provided with a nose adapted to project from said casing, means for retracting the bolt within said casing, means adapted to deadlock said bolt in the fully projected position thereof, said means for retracting said bolt adapted to disengage said deadlocking means, means adapted to prevent full projected movement of said bolt after retraction and adapted to hold said bolt out of engaging position with said deadlocking means, said last named means adapted to be disengaged by shock of impact to permit full thrust movement of said bolt and engagement therewith of said deadlocking means.

1,347,252. CLUTCH-PEDAL LOCK. JOHN S. CUNNINGHAM, Des Moines, Iowa. Filed Sept. 23, 1919. Serial No. 325,774. 3 Claims. (Cl. 70—128.)



3. In a device of the class described, adapted to be mounted on an automobile having an inclined footboard, a pedal adapted to reciprocate within a slot within the footboard, said pedal having an opening therein, a dashboard, a steering column secured to and inclined upwardly and rearwardly from the dashboard adpacent to the pedal, said steering column having an outwardly extending flange with openings therein, whereby it may be secured to the dashboard, a bracket comprising diverging arms having feet at their forward ends, means for securing said feet to the steering column flange, a locking bar pivotally mounted at the rear end of said bracket, means for adjusting the length of said locking bar, a holding device mounted on the steering column, means for moving said holding device to a plurality of adjustet positions and a locking device adapted to coact with the locking bar, and selectively with both the pedal and holding device, whereby the length of the locking bar may be adjusted to accurately position the pedal when locked in a pre-determined place, and the holding device may be moved to position around the steering column to correspond with the length of the locking bar.

1,347,253. TREAD. PHILIP W. DALRYMPLE, Baltimore, Md. Filed Apr. 12, 1919. Serial No. 289,707. 11 Claims. (Cl. 305—10.)



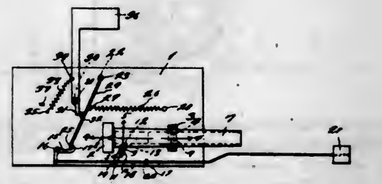
1. A belt tread consisting of a continuous track or guide, a series of followers on the track, a tension member connecting the followers, legs pivotally connected to the respective followers, a foot on each leg, and a flexible tension member engaging each leg at a point spaced from its pivot, applying an equal downward thrust to each foot of those engaging the surface being traversed, permitting the feet to conform to irregularities of said surface substantially without variation of thrust, and means for moving the tension member and the track followers around the track.

1,347,254. BELTING FABRIC. CHARLES H. DANKMEYER, Baltimore, Md. Filed May 14, 1920. Serial No. 381,237. 2 Claims. (Cl. 139—9.)



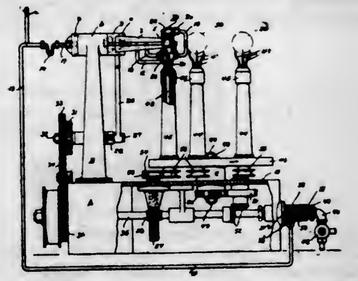
1. A belting fabric having a cotton warp and a hemp filling.

1,347,255. ANIMAL GUN-TRAP. FLOY E. DAVENPORT, Callaway, Nebr. Filed Oct. 12, 1917. Serial No. 196,142. 1 Claim. (Cl. 43—84.)



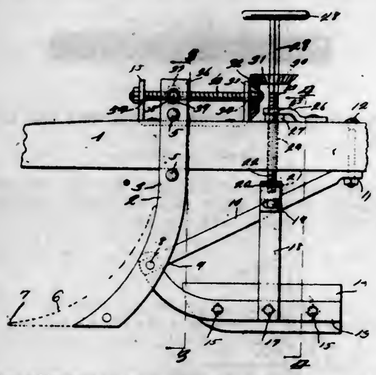
In an animal trap, a base provided with an upstanding breech block, a firing pin in said breech block, a pair of spaced trunnions mounted on the base, a gun barrel tiltably pivoted between said trunnions, and having its axis in horizontal alinement with the firing pin, a recess in one side of the gun barrel in the rear of the trunnions, a spring arm rising upwardly from the base, said spring arm being provided with a right angled lug adapted to be received by the recess in the gun barrel when the gun barrel is in horizontal position, said spring arm and lug being so positioned that when it is being moved to its firing position after loading operation the lug carried by the spring arm will be engaged by the convexed surface of the gun barrel and cam over said surface until it springs into the recess.

1,347,256. COATING APPARATUS. LAURENCE R. DAVIS, Providence, R. I., assignor to Revere Rubber Company, a Corporation of Rhode Island. Filed Oct. 4, 1918. Serial No. 256,883. 13 Claims. (Cl. 91—45.)



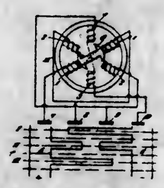
1. In apparatus of the character described, the combination with a spraying device, of a series of carriers for the articles to be coated, means for successively moving the carriers into register with said spraying device, and controlling means for the spraying device adapted to automatically shut off the spray prior to the movement of a carrier into register therewith, the said controlling means comprising a drive shaft for the carrier-operating means, a sleeve valve carried by the drive shaft at one end thereof, a casing for the valve, means for admitting fluid pressure to the valve, and a conduit affording communication between the valve and said spraying device.

1,347,257. ADJUSTABLE STANDARD AND HEEL-KNIFE. ROBERT S. DAVIS, Powhatan, La. Filed Sept. 19, 1919. Serial No. 324,894. 2 Claims. (Cl. 97—26.)



1. An adjustable standard and heel knife comprising a heel knife carrying mamber carried by a plow beam, said knife carrying member being disposed below the plow beam, the lower end of the standard and the forward end of the knife carrying member being pivoted to each other, the standard comprising two members held in spaced relation to each other and having their upper ends arching the plow beam, a bracket carried on the upper face of the plow beam and having rotatably mounted in bearings thereof a threaded shaft, said threaded shaft passing through a pivoted trunnion block having bearings in the upper end of the standard, a gear carried by said threaded shaft, said gear meshing with a gear carried by a vertically disposed threaded shaft, the lower end of said vertically disposed threaded shaft being threaded in a member pivotally secured to the knife carrying member, the gear carried by the vertically disposed threaded shaft being rotatable with said shaft but slidable thereon, and means whereby said vertically disposed threaded shaft may be rotated to raise and lower the plow point and simultaneously adjust the heel knife carrying member.

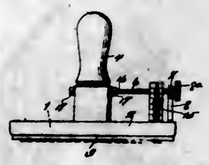
1,347,258. ELECTRICAL SIGNALING SYSTEM. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed May 29, 1918. Serial No. 237,361. 3 Claims. (Cl. 172—239.)



1. The method of operating an electric motor comprising a number of field poles with windings therefor and a cooperating armature which consists in selectively energizing said windings to move said armature from one position to another and in energizing a number of said windings to retain magnetically said armature against movement between the period of energizing two successive selections of said windings.

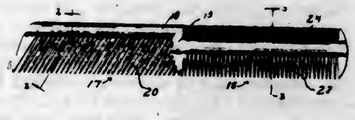
1,347,259. AMOUNT-CERTIFICATION RUBBER CHECK-STAMP FOR BANKS. JOSEPH DRASCHA, Flint, Mich. Filed Jan. 28, 1920. Serial No. 354,665. 5 Claims. (Cl. 101—111.)

1. In an amount certification rubber check stamp, the combination with a body provided with a rubber impression face for stamping bank checks, a handle for the body, said body having an opening, an endless belt provided on its outer face with various amounts, means for supporting the belt, whereby but a single amount may appear through



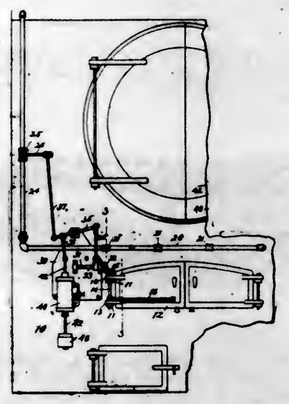
the opening at one time, said means comprising a roller in said opening, a rotating shaft mounted in bearings of the handle, and of the body and provided with a sprocket to be engaged by said belt which also passes over the roller in the opening.

1,347,260. COMB. SAMUEL DESMARAIS, Cleveland, Ohio. Filed Nov. 22, 1919. Serial No. 339,862. 12 Claims. (Cl. 132—3.)



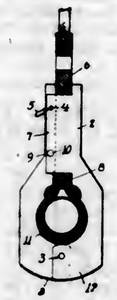
1. In a barber's comb, a frame comprising two rib portions in one plane offset from each other by a perpendicular rib portion, teeth extending from one side of one of said offset portions and from both sides of the other.

1,347,261. SMOKE-PREVENTING FURNACE-DOOR CHECK. JOSEPH P. DOYLE, Lakewood, Ohio. Filed Jan. 17, 1917. Serial No. 142,788. 1 Claim. (Cl. 110—55.)



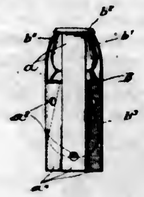
The combination with a furnace having a door, a vertical door pintle to which the door is fixed, a bevel gear fixed to said door pintle, a steam pipe arranged to discharge steam into the furnace, and a valve for said steam pipe, of a plate detachably secured to the front end of the furnace adjacent the door thereof, and the following coöperating parts supported upon said plate, viz. a horizontal shaft, a bevel gear fixed to said shaft in mesh with the bevel gear on the door pintle, an arm fixed to said shaft, a dash pot fixed to said plate, a dash pot piston, a two-arm rocking lever pivoted to said plate, a link connecting the arm on said shaft with an arm of said rocking lever, a link connecting the other arm of said rocking lever with the dash pot piston, and a third link connecting the same arm of the rocking lever with the valve in the steam pipe.

1,347,262. AUTOMOBILE-LOCK. FREDERICK C. H. EICHORN, Boston, Mass., assignor of two-thirds to James W. Burke and Albert H. Eichorn, Boston, Mass. Filed July 2, 1919. Serial No. 308,628. 2 Claims. (Cl. 70—90.)



1. A locking device for automobiles comprising a pair of substantially like members pivoted together and shaped to partially inclose the tire and rim of a wheel when they are swung together, each member having an extension rigid therewith adapted to reach to and past the adjacent portion of the periphery of the wheel-hub, and means for locking said members and extensions in engagement with the rim and hub, said extensions clamping the hub between them and thereby preventing the locking device from being turned on the rim and tire.

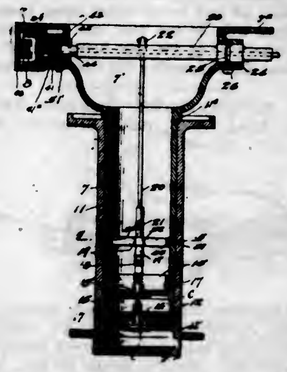
1,347,263. SHAVING-BRUSH CASE. AMOS ELLIS, Philadelphia, Pa. Filed Nov. 20, 1918. Serial No. 263,280. 4 Claims. (Cl. 206—15.1.)



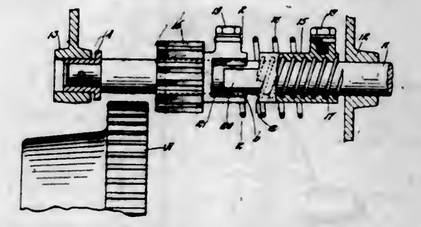
3. A shaving brush case comprising a perforated body of continuous contour and inwardly inclined resilient fingers formed integrally with said body and forming an end of said case, in combination with a brush having a handle provided with a groove adapted to be engaged by said fingers.

1,347,264. BARBER'S CHAIR. JOHN R. EMMERT, Chicago, Ill. Filed Oct. 29, 1918. Serial No. 260,165. 4 Claims. (Cl. 155—25.)

8. The combination with the fixed cylinder, and core having opposed openings, of a cross head and diametrical braces therein, brake blocks in said openings at the ends of said braces, and an operating stem in the cross head having cam faces to engage said braces and cause frictional contact between the blocks and the wall of the cylinder.

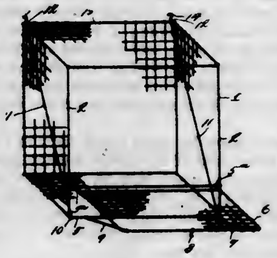


1,347,265. GEAR-ENGAGING MECHANISM FOR SELF-STARTERS. STEPHEN I. FEKETE and STUART G. BAITS, Detroit, Mich., assignors to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed Jan. 22, 1919. Serial No. 272,409. 5 Claims. (Cl. 74—7.)



1. In combination with a gear, a driving shaft having a screw threaded portion, a nut mounted on said shaft and bearing one member of a clutch, a pinion mounted on the said shaft movable thereon and having the other member of said clutch, and a yielding connection between said nut and said pinion.

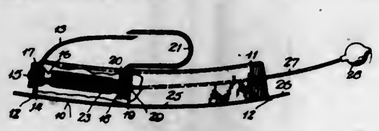
1,347,266. HEN'S NEST. EUGENE L. FINK, Deloit, Iowa. Filed Apr. 14, 1920. Serial No. 373,841. 2 Claims. (Cl. 119—45.)



1. A hen's nest comprising a rectangular shaped body, one wall of said body being provided with an entrance, a closure for said entrance, said closure being pivoted to the bottom of the entrance, means for supporting the closure in a horizontal position so as to form an entrance plat-

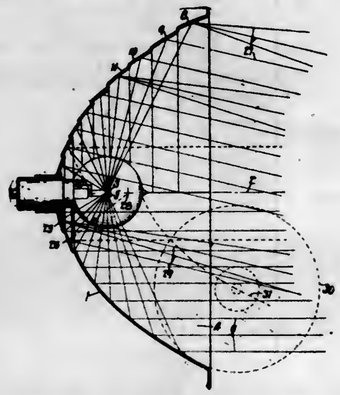
form, diagonally disposed brace wires extending diagonally across the sides of the nest, the lower ends of said wires being connected to the lower wire of the front wall, the upper ends of said brace wires being twisted around the rear upper wire of the nest, the brace wires beyond said upper rear wire of the nest being formed into hooks forming means for supporting the nest as a whole.

1,347,267. HAT-FASTENER. BOHUMIL FRONEK, Chicago, Ill. Filed Feb. 6, 1920. Serial No. 356,681. 7 Claims. (Cl. 132—25.)



1. A hat fastener embodying a body portion, a hair engaging prong connected therewith and extending therefrom, a coöperating hair engaging prong movably mounted upon the said body portion, means tending normally to move the prongs toward each other into coöperative relation, an extended casing completely housing the said means in any position of the prongs with respect to each other, and means whereby the prongs may be separated against the stress of the first recited means.

1,347,268. PARABOLIC SECTIONAL REFLECTOR. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmunds and Jones Corporation, Detroit, Mich., a Corporation of New York. Filed Sept. 17, 1917. Serial No. 191,684. 8 Claims. (Cl. 240—41.)



1. A reflector having upper and lower halves, the reflecting surface of the main portion of the lower half of the reflector conforming to a true paraboloid, the upper half of the reflector including a plurality of sectors of paraboloidal surfaces, each sector of the upper half having its own focal length, the foci of the sectors being substantially at a common point which is located rearwardly from the focus of the main portion of the lower half of the reflector.

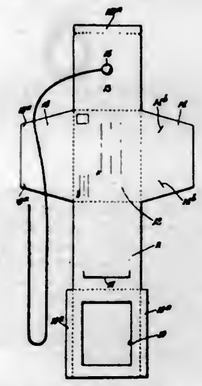
2. A reflector comprising an upper portion and a lower portion, the inner face of the lower portion being a paraboloidal surface, the inner face of the upper portion including a plurality of narrow transversely extending strips of different paraboloidal surfaces, the foci of the last mentioned surfaces being rearward of the focus of the first mentioned surface.

3. A reflector having two portions located at different levels, said reflector having a longitudinal axis, the inner face of one of the portions being a paraboloidal surface, the inner face of the other portion including a plurality of narrow transversely extending strips of different paraboloidal surfaces, said strips being slightly offset from one another and having foci spaced from the focus of the first mentioned surface longitudinally of the reflector.

4. A cup shaped reflector formed of thin sheet metal, the upper portion of the reflector including a plurality of transversely extending strips of paraboloidal surfaces offset slightly from each other and having different focal lengths, the foci of said surfaces substantially coinciding with each other.

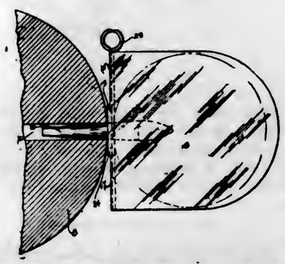
5. In combination, a sheet metal reflector having an upper portion, a lower portion, and a longitudinal axis, the lower portion constituting substantially the lower half of said reflector and having its inner face conforming to the surface of a paraboloid the focus of which lies substantially on the longitudinal axis, the upper portion constituting substantially the upper half of the reflector and having its inner face formed of a plurality of substantially parallel narrow transversely extending strips conforming to the surfaces of different paraboloids, the portion of each of the surfaces which has the greatest diameter being forward and the foci of said last named paraboloidal surfaces being rearward of the first mentioned focus.

1,347,269. MAILING-FRAME. FLORANCE COLGATE GREBLE, New York, N. Y. Filed May 2, 1919. Serial No. 294,313. 5 Claims. (Cl. 40—149.)



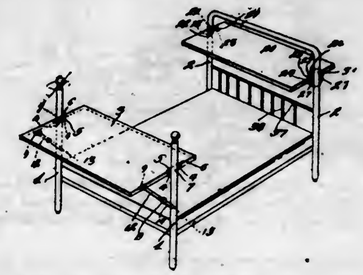
1. A mailing frame consisting of a frame and a cover hinged together, flaps secured to the sides of one of said parts to inclose the other of said parts when said parts are folded together, a flap secured to the end of one of said first-mentioned parts which is opposite to said hinge, said last-mentioned flap being adapted to serve as a base, and means for securing the free edge of said frame to the corresponding edge of said base.

1,347,270. SAP SPOUT AND COVER. MICHAEL HANAUER, Tolland, Mass. Filed Jan. 29, 1920. Serial No. 354,801. 2 Claims. (Cl. 47—11.)



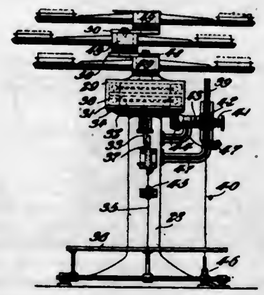
1. The combination of a spout, with a flange formed integral therewith and with a forwardly projecting web formed with an opening of a hook having an eye, one end of which passes through said opening.

1,347,271. TABLE ATTACHMENT FOR BEDSTEADS. WILLIAM L. HARTMAN, Palmyra, Ind. Filed Feb. 21, 1916, Serial No. 79,748. Renewed Dec. 18, 1919. Serial No. 345,913. 1 Claim. (Cl. 5—41.)



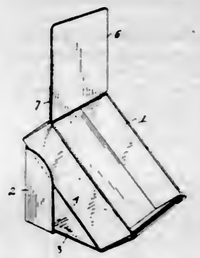
A table attachment, comprising in combination with a rectangular tubular arch frame for the end of a bedstead, a table board constituting a panel for said frame, the opposite end edges of said board or panel having elongated recesses, plates secured in said recesses and provided with axially alined trunnion pins, the opposite tubular sides of said frame having axially alined bearings in which said trunnion pins are rotatably mounted, whereby the board or panel may be disposed perpendicularly, horizontally, or at various intermediate angles, one of said plates being circular and having a plurality of apertures annularly arranged, one of the tubular sides of the frame having apertures diametrically opposed having the same axis to aline axially with any one of the apertures of said circular plate as it is rotated, one of the apertures of the tubular side being formed in the outer portion of the wall of the side and larger than the other diametrically opposite aperture, a plug detachably threaded in the larger aperture, a detent pin movably mounted in said plug and passing through the diametrically opposite aperture of the inner portion of the wall of the side, whereby the inner extremity of the pin may engage any one of the apertures of the plate when its aperture registers with the pin, a second pin extending transversely of the detent pin, and a coil spring between the second pin and the inner end of the plug, which is removable, whereby the detent pin and its attendant parts may be detached from the side of said frame.

1,347,272. FILING-RECEPTACLE. LEONARD J. HOGG, Philadelphia, Pa. Filed Jan. 11, 1916. Serial No. 71,429. 1 Claim. (Cl. 45—3.)



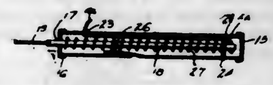
In a device of the character stated, the combination of a plurality of holders for filing devices, crank arms forming respectively journals for said holders, and common means for connecting and supporting said crank arms for rotary movement, whereby a plurality of said holders may be simultaneously swung to a new position and each being independently rotatable of the others.

1,347,273. DISPLAY-CARTON. JOHN V. HOAR, East Cleveland, Ohio, assignor to Albert T. Fischer, Cleveland, Ohio. Filed Jan. 16, 1920. Serial No. 351,906. 11 Claims. (Cl. 206—44.)



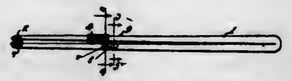
1. A display carton having a body portion, an easel member adapted to support the body portion in inclined position, and members permanently securing the top and bottom portions of the easel respectively with the body portion whereby the easel is held against tipping, said members being foldable to a position on top of the said body portion of the carton.

1,347,274. SIGNAL DEVICE FOR AUTOMOBILES. SQUIRE S. HOWELL, Des Moines, Iowa. Filed Oct. 24, 1919. Serial No. 333,070. 1 Claim. (Cl. 116—50.)



In a signal device for automobiles or the like comprising a tubular shaped casing adapted to be fixed to an automobile windshield or the like, a removable cap having a central opening therein fixed to one end of said casing, a rod slidably mounted in said cap and partially received in said casing, a second cap removably fixed to the free end of said casing, said rod being provided with an indicating member on its end extended beyond the casing, a collar fixed to said rod on its inner end within said casing, said collar being substantially the same diameter as the interior of the casing, whereby the rod will be centered by the opening within said first cap and said collar, said casing having a curved slot formed in its side intermediate of its ends and extending substantially a quarter of the circumference of said casing, a pin formed on said collar and adapted to project through said slot, whereby the longitudinal movement of the rod will cause it to rotate substantially a quarter revolution whereby the indicating member will be moved from a horizontal position to substantially vertical position, a cord fixed to said collar and extended through the casing near its forward end, a spring around said rod and extended between the collar and said first cap, whereby the rod will be yieldingly held in its rear limit of movement, the parts being so arranged that when the cord is drawn the indicating member will be moved outwardly to display position against the action of the spring and when the cord is released, the rod will be returned to its rear limit of movement.

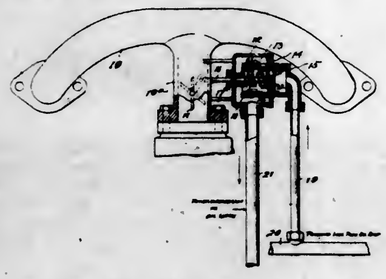
1,347,275. DENTAL INSTRUMENT. EUGENE W. IDEN, Cleveland, Ohio. Filed Sept. 2, 1919. Serial No. 321,050. 1 Claim. (Cl. 32—10.)



A dental instrument comprising a pair of jaws with handle portions connected together at the rear end, and a

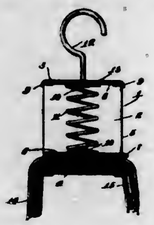
sliding clip mounted upon said handle portions and movable along the same to open or close the jaws said clip having projections engaging in slots in the handle to hold the same in place.

1,347,276. INTERNAL-COMBUSTION ENGINE. ROYAL K. JOHNSON, Cleveland, Ohio, assignor to The Minerva Engine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 17, 1918. Serial No. 229,041. 6 Claims. (Cl. 264—14.)



1. In combination with an internal combustion engine having a throttle valve and a circulating system for engine lubricant, high and low pressure by-pass pipes adapted to be connected thereto, and a valve responsive to increase of oil pressure due to increase of engine speed for gradually increasing the by-passing of oil as the engine speed increases, thereby preventing excessive rise of pressure in the lubricating system, said valve being connected to the throttle valve.

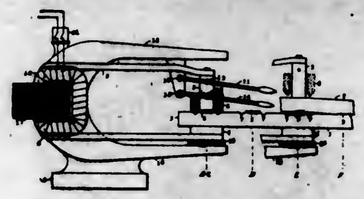
1,347,277. SHOE-LACE HANGER. ROMAN M. KEMPF, Columbus, Ohio. Filed Nov. 26, 1919. Serial No. 340,872. 2 Claims. (Cl. 211—17.)



2. A bracket for holding shoe laces comprising a rectangular casing, a horizontally situated clamping plate slidably mounted within said casing between the end walls thereof, a bearing plate removably mounted in the top of said casing, coil springs situated between said bearing plate and said clamping plate and normally serving to force the latter toward the bottom of said casing, and a hook member rigidly carried by said bearing plate and adapted to occupy a slot formed in the top of said casing, said hook member permitting of the withdrawal of said plates from said casing.

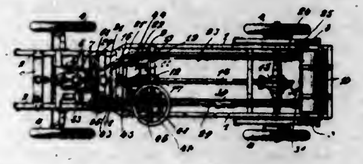
1,347,278. METHOD OF ELECTRICALLY WELDING METAL PLATES. CHARLES H. KICKLIGHTER, Macon, Ga. Filed May 5, 1920. Serial No. 379,170. 15 Claims. (Cl. 219—10.)

1. The method of fastening two pieces of metal together, face to face, which consists of welding flat metallic bodies to the surface of one of the pieces of metal by the application of pressure and heating electric current and forming depressions thereabout in close proximity thereto by applying a tool with annular edge to said surface, of bringing into contact with the metallic bodies the surface of the second said piece of metal, and by the application of pressure and heating electric current of welding the



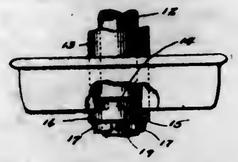
second piece of metal to the metallic bodies and forcing the metallic bodies into the depressions adjacent thereto so that the said pieces of metal come into immediate contact.

1,347,279. MOTOR-VEHICLE. DAVID KRAUS, New York, N. Y. Filed July 16, 1917. Serial No. 180,765. 4 Claims. (Cl. 60—11.)



1. In an apparatus of the class described, the combination with the propelling means of a vehicle, of a fluid pressure operated motor connected therewith, a reservoir adapted to contain the fluid under pressure connected with said motor, manually controlled means for controlling the amount of fluid under pressure to be delivered to said motor as well as for controlling the direction of flow thereof, whereby said motor may be driven in different directions, a liquid fuel driven motor, pumping means driven by the latter and interposed between the same and said fluid pressure reservoir, and means operated by the pressure of the fluid in said reservoir for controlling the connection between said second named motor and said pumping means and for regulating the quantity of fuel supply to said second named motor.

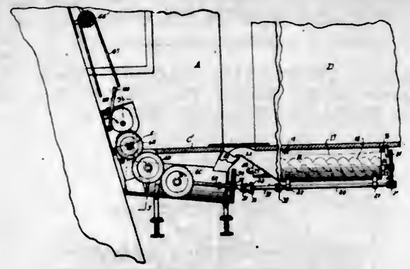
1,347,280. CAR-AXLE MOUNTING. JOHN T. KRIEGER, St. Louis, Mo., assignor to Lincoln Steel and Forge Company, St. Louis, Mo., a Corporation of Missouri. Filed July 28, 1919. Serial No. 313,847. 6 Claims. (Cl. 295—49.)



1. The combination with an axle and wheel mounted thereupon, the outer end of the hub of which wheel is provided with shoulders, of a lock washer secured to the axle adjacent to the wheel, and said lock washer being provided with shoulders adapted to engage the shoulders on the hub of the wheel.

1,347,281. LOCOMOTIVE-STOKER. HAMILTON LINDSAY, Willoughby, Ohio. Filed Apr. 9, 1917. Serial No. 160,631. 6 Claims. (Cl. 110—115.)

1. In a locomotive stoker, the combination of means on the locomotive for feeding coal to the fire box, including a conveyer, a separate conveyer on the tender freely overhanging the conveyer on the locomotive and adapted to feed coal into a position to drop by gravity



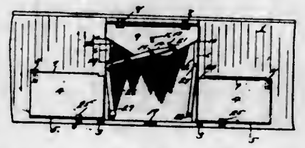
into the locomotive conveyer and a movable grate on the tender for causing a regulated flow of coal to the tender conveyer.

1,347,282. WIRE-TWISTING TOOL. JOHN MCDONALD, West Haven, Conn. Filed May 19, 1919. Serial No. 298,164. 2 Claims. (Cl. 140—119.)



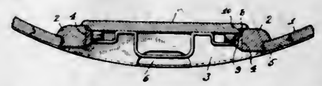
2. A wire twisting tool comprising a handle member having a head thereon, said head having a depression therein provided with a centrally disposed round aperture, a detachable plate secured to said head and provided with a depression and round aperture in registration with the depression and aperture of the tool head, registering slots extending from the aperture to the end of the tool, a rotatable disk mounted in the depressions of the head and plate, said disk being provided with bosses, said bosses having bearings in the round openings of the head and plate, radial slots for the reception of wires, said slots being carried by said disk, chambers in the tool head and plate thereby forming a chamber, a spring actuated dog pivoted in said chamber, notches carried by the periphery of the rotatable disk and adapted to be coöperated with by the pivoted dog so that an intermittent rotation may be imparted to the disk when an oscillatory movement is imparted to the tool handle, said notches being so positioned in relation to the radial slots and wire receiving slot in the tool head that during a twisting operation they will be out of registration.

1,347,283. CAR-DOORS. JOSEPH L. MACKEY, Fowler, Ill. Filed Mar. 19, 1920. Serial No. 367,041. 2 Claims. (Cl. 20—27.)



1. A car door comprising a pair of door sections rectangular shaped, the outer lower corners of said rectangular shaped door sections being pivoted to the side of the car adjacent the lower outer corners of the door opening, means for supporting said door sections when they are in open position, a horizontally hinged door section hinged to the upper edge of the door opening, an aperture in said horizontally hinged door section, said aperture being adapted to receive lugs carried by the first mentioned door sections, when said sections are in closed positions, a lever pivoted to the horizontally hinged door section and having arms for entering apertures in the lugs carried by the door sections and in a lug adjacent the door opening, said pivoted door sections being provided with flanges for engaging the outer edges of the door frame and for overlapping each other at their engaging edges and flanges carried by the horizontally hinged door sections for engaging the sides of the door sections.

1,347,284. SILO. JAMES R. MIMS, Luray, Va. Filed May 6, 1919. Serial No. 295,094. 4 Claims. (Cl. 20—1.4.)



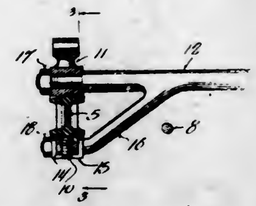
1. In a silo, vertical door posts recessed on their inner faces, and door sections similarly recessed to fit said door posts to provide a plurality of substantially parallel contact surfaces therebetween, the length of said door sections between said parallel contact surfaces being less than the distance between said posts at said points, whereby limited endwise movement is permitted to said door sections between said door posts.

1,347,285. LOCKING MEANS FOR ORTHODONTIA APPLIANCES. FREDERIC T. MURLLESS, Jr., Hartford, Conn. Filed Mar. 26, 1920. Serial No. 369,022. 4 Claims. (Cl. 32—19.)



1. Locking means for connecting an orthodontia anchor and arch which comprises a pocket with a hole through its side, formed on the wall of the anchor, a notched stud extending at an angle from the arch into said pocket, and a yielding finger projecting from the arch and having its ends extending through the hole in the pocket into the notch in the stud.

1,347,286. FRONT-AXLE RADIUS-ROD STRUCTURE. THOMAS H. JACOB, Wausau, Wis. Filed July 26, 1919. Serial No. 313,575. 1 Claim. (Cl. 267—66.)

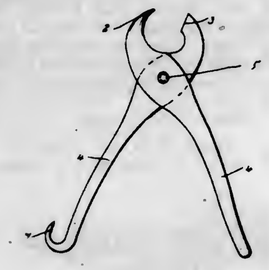


In a vehicle of the class described, the combination with an axle, bolts passed through the axle, sleeves carried by the upper ends of said bolts, and radius rods having their ends secured in said sleeves, nuts threaded on the lower ends of said bolts, sleeves carried by said nuts, and rod sections having their outer ends secured in said last named sleeves and having their inner portions inclined toward and secured to the portions of the radius rods adjacent and inwardly of the axle.

1,347,287. COTTER-PIN EXTRACTOR. ADOLPH NYHUS, La Crosse, Wis. Filed Dec. 24, 1919. Serial No. 347,073. 1 Claim. (Cl. 81—3.)

An extractor for cotter pins, comprising two crossed and pivoted shanks, one shank having a jaw provided

with a flat triangular face arranged radially of the pivot of the shanks with its base parallel to the said pivot,



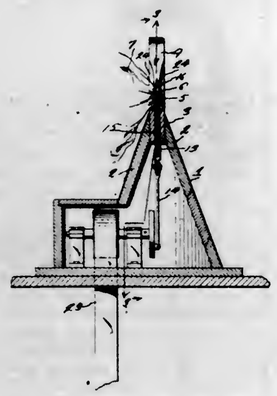
and the other shank having a curved and conical jaw the point of which is arranged opposite to the apex portion of the said triangular face.

1,347,288. FRUIT AND VEGETABLE PEELING ATTACHMENT. ADOLPH OLEVIN, Detroit, Mich. Filed June 27, 1919. Serial No. 307,081. 6 Claims. (Cl. 30—20.)



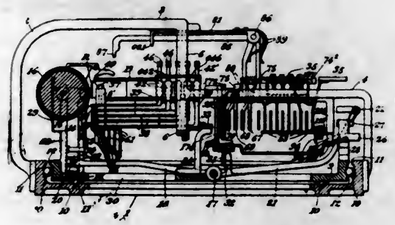
1. A device of the character described having a plurality of peeling blades, with means for securing the device upon a knife blade either transversely or longitudinally thereof, whereby any desired peeling blade can be brought into position for use.

1,347,289. BUTTON-CLIPPER. ARTHUR PARENT, Millers Falls, Mass. Filed Dec. 16, 1919. Serial No. 345,370. 3 Claims. (Cl. 218—27.)



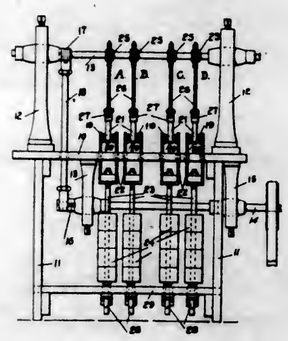
1. A button clipper comprising a base, said base being provided with an upstanding jaw at one of its edges, a horizontal guide adjacent said upstanding jaw, a spring actuated slidable jaw mounted on said horizontal guide and adapted to clamp a thread between the jaws, said jaws having recesses in their adjacent faces, one of said recesses merging into a knife guide, a vertically disposed reciprocating knife disposed in said guide and recesses and means for reciprocating said knife.

1,347,290. TYPEWRITING-MACHINE. EDWIN POPE, Quebec, Quebec, Canada. Filed Mar. 9, 1918. Serial No. 221,352. 15 Claims. (Cl. 197—11.)



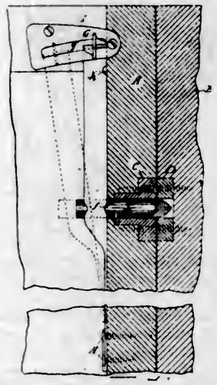
1. The combination, in a typewriter embodying a platen adjustable laterally into a plurality of recording positions, and a key board, of a plurality of type keys, mechanism actuated by each type key and provided with a type member having a plurality of type characters thereupon, and a plurality of control elements and type positioning mechanism operated thereby associated with each type member and severally adapted to rotate the type member in opposite directions into operable positions relative to the platen, each control element being located adjacent to a plurality of type keys and being optionally operable coincidentally with each type key and by the same digit to vary the character printed by the operation of each type key.

1,347,291. TESTING-MACHINE. RAYMOND B. PRICE, New York, N. Y., assignor to Rubber Regenerating Company, a Corporation of Indiana. Filed Mar. 24, 1916. Serial No. 86,326. 9 Claims. (Cl. 265—1.)



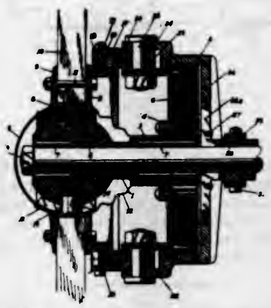
1. A flexing machine comprising an idler for forming a loop in the material to be flexed, a tension device operatively connected with the idler for tensioning the material, means for grasping the material on opposite sides of the loop thereof, and automatic continuously operating means for moving the first named means to cause the loop to move longitudinally of the tensioned material.

1,347,292. SNAP-LOCK FOR DOORS, GATES, AND THE LIKE. THOMAS GERSHOM PROPERT and WILLIAM REDWOOD BROWN, Chippendale, New South Wales, Australia, assignors of one-third to Albert Thomas Woolford, Chippendale, New South Wales, Australia. Filed Oct. 17, 1918. Serial No. 258,647. 2 Claims. (Cl. 292—173.)



1. In snap locks for motor car doors, gates and the like, a guide plate, a bolt slidable within the guide plate, and a plate spring for actuating the bolt, one end of the bolt being cut away at one side to receive and loosely retain the plate spring thereon.

1,347,293. DRIVEN STEERING-WHEEL FOR VEHICLES. SAMUEL S. ROSE, San Jose, Calif., assignor of one-half to Wilfred H. Weller, San Jose, Calif. Filed Oct. 23, 1919. Serial No. 332,661. 4 Claims. (Cl. 74—103.)



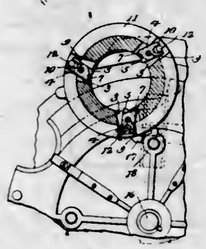
1. A driven steering wheel for vehicles comprising a rigid axle, a driven ball turnably mounted thereon, and a hub carrying a wheel structure turnable with the ball and adapted for movement about the ball as an axis only in a plane longitudinally of the vehicle.

1,347,294. NUT-LOCKING DEVICE. WILLIAM H. SAWTELL, Worcester, Mass., assignor of one-half to Napoleon R. Thibert, Worcester, Mass. Filed Dec. 26, 1919. Serial No. 347,415. 5 Claims. (Cl. 151—30.)



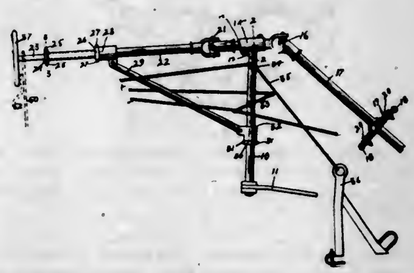
1. A nut locking device, comprising a resilient spring coil with its convolutions adapted to fit the screw threads of a bolt, with the end of the outer convolution bent at substantially a right angle to engage one of said screw threads, and with the end of the inner convolution hooked over the outer convolution back of its bent section.

1,347,295. STACK-HOLDER FOR CAN ENDS. MATHEW MEYER SEDWICK, Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 22, 1918. Serial No. 259,209. 4 Claims. (Cl. 113—114.)



1. The combination of a stack holder for can ends and means for supporting and releasing the can ends including a series of pivoted supporting and releasing dogs, each having a lower supporting ledge and an upper tapered releasing and supporting finger spaced above said ledge a distance substantially equal to the thickness of a can end, said finger and ledge being staggered and disposed relative to each other and the stack holder so that when the said dogs are oscillated in one direction the ledges support the stack and when the dogs are oscillated in the other direction the fingers support the stack above the lowermost can end and the stack above the lowermost can end is continuously supported by said dogs.

1,347,296. EXTENSION STEERING DEVICE. EDWARD J. SELLA, Jewell, Iowa. Filed Jan. 13, 1920. Serial No. 351,181. 7 Claims. (Cl. 180—77.)

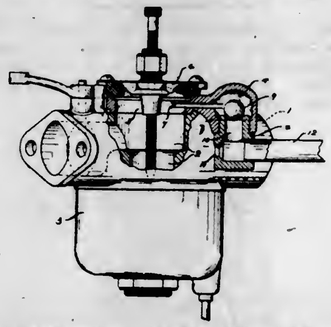


1. In a device of the class described; an upright support designed to be mounted on a tractor; a short shaft supported in substantially horizontal position for rotation on said upright support; means for operatively connecting one end of said short shaft with the steering shaft of a tractor; a shaft connected by a universal joint with said short shaft; a brace slidably mounted on said second shaft, to permit the second shaft to rotate; means for supporting said brace on said upright for permitting swinging movement of the brace with relation to the upright; and a steering wheel operatively connected with said second shaft.

1,347,297. CARBURETER ATTACHMENT. GEORGE F. SHIELDS, Los Angeles, Calif., assignor of one-fourth to Harold E. Shiner, one-fourth to James P. Berne, and one-fourth to Loyd E. Wright, Los Angeles, Calif. Filed June 24, 1919. Serial No. 306,470. 2 Claims. (Cl. 123—119.)

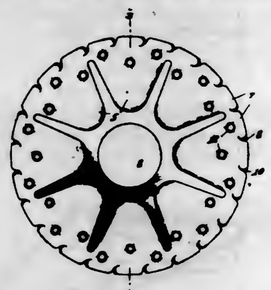
1. An attachment for carbureters comprising in combination with the main mixing chamber thereof, an an-

nulus arranged to fit upon the top of said mixing chamber, a cap for securing said annulus upon said chamber, said annulus formed with a chamber extended outside of and free of the mixing chamber and formed with a



horizontal passageway connecting said mixing chamber with the chamber of said annulus, a fitting connecting with said last named chamber having an inlet, and a valve in said chamber.

1,347,298. RASPING-DISK. CLYDE L. SMITH and EMMETT S. WEBSTER, South Bend, Ind., assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind., a Corporation of Indiana. Filed Aug. 1, 1919. Serial No. 314,677. 3 Claims. (Cl. 29—78.)



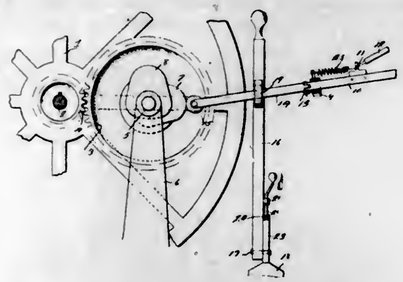
1. A circular rasping disk comprising a series of laterally projecting jagged-edged studs, and a series of edge teeth angularly disposed with relation to the plane of the disk.

1,347,299. RASPING-WHEEL. CLYDE L. SMITH and EMMETT S. WEBSTER, South Bend, Ind., assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind., a Corporation of Indiana. Filed Aug. 1, 1919. Serial No. 314,678. 3 Claims. (Cl. 29—78.)



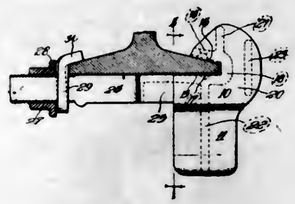
1. A rasping wheel comprising a series of blunt-ended pins extending from the face thereof, the meeting point of the blunt end and sides of a pin forming a cutting edge coextensive with the marginal dimensions of such pin end.

1,347,300. VALVE-CONTROL MECHANISM. EARL G. SMITH, Crandon, Wis. Filed Sept. 19, 1919. Serial No. 324,746. 3 Claims. (Cl. 123—41.)



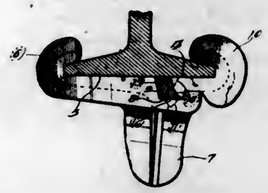
1. A reversing mechanism for internal combustion engines comprising an exhaust control rod and an ignition control rod, a pair of cams operated by the crank shaft, one of said cams being adapted to operate the valve and ignition control rods for turning the engine to the right, the other cam being adapted to operate the exhaust valve control rod and the ignition control rod so as to operate the engine to the left and means whereby the operating valve rod may be shifted from one cam to the other.

1,347,301. RAIL-ANCHOR. ARTHUR L. STANFORD, Chicago, Ill. Filed Mar. 1, 1920. Serial No. 362,474. 14 Claims. (Cl. 238—329.)



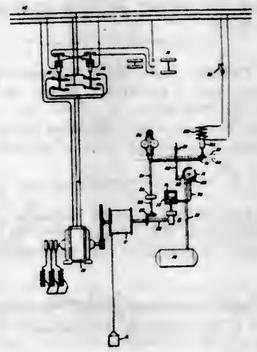
1. In a rail anchor, a rail gripping member provided with jaws adapted to embrace the flange of a rail, a cross connecting member, a split ring clip having fingers adapted to overlie the opposite edge of the rail base, and means bearing against the outer face of the split ring clip, substantially as described.

1,347,302. RAIL-ANCHOR. ARTHUR L. STANFORD, Chicago, Ill. Filed Apr. 30, 1920. Serial No. 377,805. 7 Claims. (Cl. 238—325.)



1. In a rail anchor, the combination of a plurality of members in interlocked relation, and a granular substance having a high co-efficient of friction interposed between the inter-engaging surfaces to prevent displacement, substantially as described.

1,347,303. ELECTRIC HOIST. FRED L. STONE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 26, 1919. Serial No. 320,006. 8 Claims. (Cl. 188—82.)



1. The combination with an electric hoist or the like and a brake for the same, of means for automatically applying the brake on failure of power, and means for delaying the application of the brake until the speed of the hoist has decreased to a predetermined value.

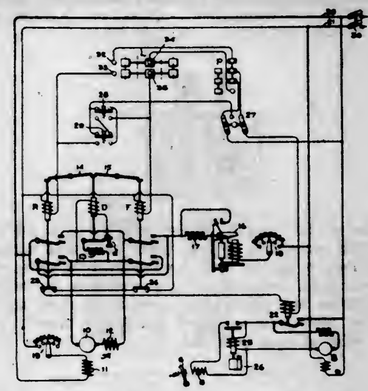
1,347,304. PIPE-CLEANER. CHARLES M. TALLMAN, Delavan, Wis. Filed June 17, 1919. Serial No. 304,857. 3 Claims. (Cl. 131—13.)



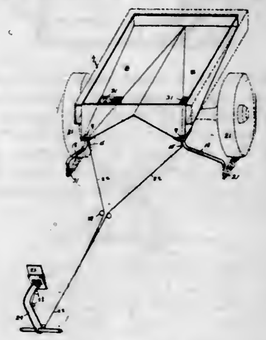
1. A pipe cleaner and cylindrical case therefor comprising a pipe cleaning probe, said probe having a handle member at one end thereof, said handle member being adapted to be disposed in one end of the cylindrical casing, said cylindrical casing being divided longitudinally into compartments, one of said compartments being adapted to receive the pipe probe and the other compartment cleaning material.

1,347,305. MOTOR CONTROL. WILLIAM G. TAYLOR, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 29, 1917. Serial No. 171,774. 4 Claims. (Cl. 172—239.)

1. The combination with a machine having an intermittently operated mechanism, of an electric motor for operating the same, a second intermittently operated mechanism coöperating with the first mechanism, an electric motor for driving the same, a mechanical stop for accurately stopping the second mechanism after a predetermined travel, a switch operated by each motor for controlling the other motor, and connections whereby the motors are operated in succession.

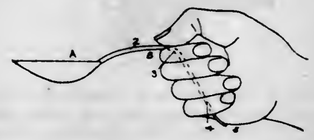


1,347,306. AUTOMOBILE-SANDER. ADOLPH TEUSCHER and OTTO TEUSCHER, Hillsdale, Oreg. Filed Mar. 10, 1920. Serial No. 364,658. 2 Claims. (Cl. 291—28.)



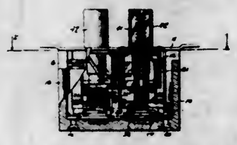
1. In a device for preventing the skidding of automobile wheels, the combination of a sand containing receptacle, delivery tubes adapted to carry the sand from said receptacle to the wheel track, butterfly valves within said delivery tubes, spring return cables adapted to operate said butterfly valves, and a toe operated pedal mounted on the brake pedal adapted to actuate said cables.

1,347,307. CHILD'S TABLE UTENSIL. EDWARD G. THOMAS, Toledo, Ohio. Filed Dec. 10, 1918. Serial No. 266,118. 4 Claims. (Cl. 30—22.)



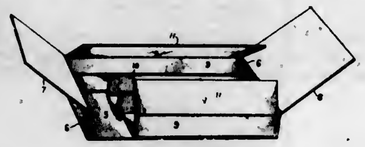
1. A child's table utensil including a handle, said handle having a neck and a forefinger-engaging portion and palm-registering portion, arranged at an angle thereto and adapted to contact with the ulnar side of the palm.

1,347,308. ELECTRIC SWITCH. GEORGE B. THOMAS, Bridgeport, Conn., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 15, 1916. Serial No. 72,324. 5 Claims. (Cl. 200—64.)



1. An electric switch device, comprising a cup-shaped insulating receptacle, a yoke piece extending across the top thereof, a pair of switches mounted in series within the receptacle, independent push buttons for actuating the switches, and guide pins extending at right angles to the yoke piece and arranged lengthwise thereof on opposite sides of each push button.

1,347,309. PAPER RECEPTACLE. JOHN W. UPP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 12, 1919. Serial No. 282,188. 4 Claims. (Cl. 229—23.)



1. In a receptacle, a main blank scored to form bottom, end, and top sections, and a plurality of blanks scored longitudinally to form a plurality of channel shaped side and partition members, the former being placed along the side edges of the bottom section with the channels facing inward, and the latter being placed on the bottom section between the side members with the channel facing upward.

1,347,310. ANIMAL-EXTERMINATOR. JAMES WRIGHT VAN METER, Buenos Aires, Argentina. Filed July 23, 1915. Serial No. 41,591. Renewed Nov. 28, 1917. Serial No. 204,454. 1 Claim. (Cl. 43—81.)

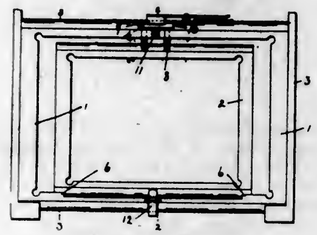


A device of the class described comprising a frame having a back and sides, a transverse rod connected to the sides, a spring controlled striker pivoted on the rod between the sides, a trigger arranged against the outer face of the back and having its upper end extending forwardly through the back and pivotally connected thereto, said upper end of the trigger normally engaging the striker to hold it in set position, a W-shaped bait holder pivoted on the sides, and projecting through the back for engagement with the trigger to hold it in contact with the striker, said bait holder being adapted to be actuated by an animal to release the trigger and free the striker, and a liquid containing breakable tube mounted in the frame in the path of the striker and adapted to be broken thereby when the striker is freed from the trigger to release the liquid.

1,347,311. PAINT. GROVER C. WATSON, Mineral Wells, Tex. Filed Oct. 13, 1919. Serial No. 330,378. 3 Claims. (Cl. 134—51.)

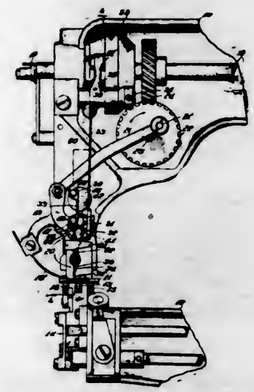
1. A paint for industrial purposes composed of crude oil or petroleum, gloss oil, and a mineral for making paints.

1,347,312. PRINTING-PRESS CHASE. CLARENCE H. WEANT, Baltimore, Md. Filed Oct. 14, 1919. Serial No. 330,628. 3 Claims. (Cl. 101—391.)



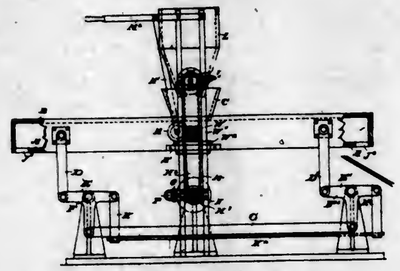
1. The combination of a printing press chase having ears on the inner edge thereof provided with recesses, a smaller chase adapted to fit within the said first named chase and resting in said recesses, two pins projecting through the first named chase and having beveled lower edges adapted to impinge against the beveled edge of the smaller chase and lock it in the first named chase, and a spring to release said pins when the first named chase is removed.

1,347,313. SEWING-MACHINE LOOPER. JAMES WHITELAW, St. Louis, Mo., and GEORGE T. MAY, Jr., Chicago, Ill. Filed Apr. 17, 1919. Serial No. 290,763. 11 Claims. (Cl. 112—176.)



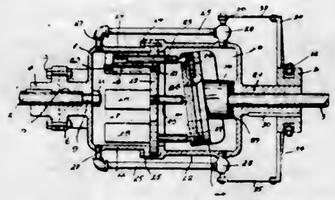
1. The combination with a laterally reciprocating needle and means for presenting work thereto, of a looper comprising a movable unit having a looper-point, and means for moving said unit through a six-way path without changing the angle of said unit with respect to the plane of the work.

1,347,314. SEPARATING OR GRADING APPARATUS. THOMAS FEWSTER WILKINSON, Manchester, England, assignor of one-half to Herbert Tatlock Wilkinson, Manchester, England. Filed June 2, 1914. Serial No. 842,535. 4 Claims. (Cl. 130—17.)



1. A grading, separating or like appliance comprising a horizontal table, a bracket secured to the underside at about the middle of said table, a crank adapted to impart continuous, uninterrupted and complete circular motion in a vertical plane to said table and situated below the said bracket, the pin of the said crank being journaled in said bracket, and links so arranged that circular motion in a vertical plane is given to the table while it always retains a horizontal position, substantially as and for the purpose described.

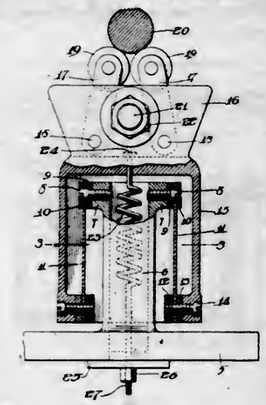
1,347,315. POWER-TRANSMISSION MECHANISM. ROMEO L. WILLIAMSON, Mount Vernon, Ohio. Filed Apr. 1, 1918. Serial No. 225,870. 8 Claims. (Cl. 192—18.)



1. In a transmission mechanism of the character described, the combination with a driving and a driven shaft, of means for forming a driving connection between said shafts comprising a casing member rigidly carried by the driving shaft, said casing member being divided into high and low pressure compartments, a plurality of cylinders in said casing operatively located between said high and low pressure compartments and disposed in an array around said driving shaft to be parallel therewith, pistons movable in said cylinders, valve mechanism governing the flow of liquid through said cylinders from the low to the high pressure compartment, means for controlling the rate of flow of liquid from the high to the low pressure compartment and means associated with the driven shaft for coöperation with said pistons and arranged to successively move them into their respective cylinders upon a relative rotative movement between said shafts.

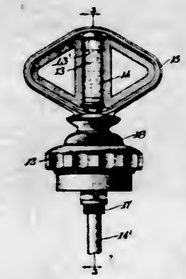
1,347,316. SHAFT-SUPPORT FOR TESTING PURPOSES. NICHOLAS W. AKIMOFF, Philadelphia, Pa., assignor to Vibration Specialty Company, a Corporation of Delaware. Filed July 18, 1917. Serial No. 181,228. 6 Claims. (Cl. 73—51.)

1. In a device of the character described for supporting a rotatable shaft against vertical movement while permitting the same to oscillate laterally without damping, the combination of a stationary support, plate springs depending downwardly from a portion of said stationary support, and a vibratory housing element secured



to the lower free ends of said plate springs and surrounding the same and carrying means for journaling the rotatable shaft.

1,347,317. TEMPERATURE-INDICATING DEVICE FOR COOLING SYSTEMS FOR INTERNAL-COMBUSTION ENGINES. LOUIS V. ARONSON, Newark, N. J. Filed Oct. 17, 1916. Serial No. 126,196. 3 Claims. (Cl. 116—114.)



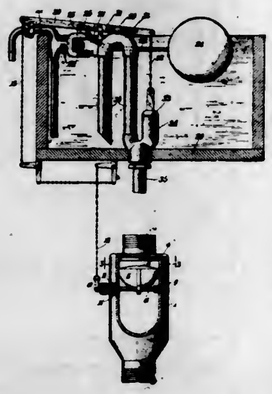
1. A heat responsive element for insertion through an automobile radiator cap, and consisting of a compound tubular member containing a heat responsive liquid capable of automatically changing its normal color to an abnormal one simultaneously when the normal conditions of the engine become abnormal, the said member having a transparent indicator portion for said liquid projecting above the radiator cap and a continuation thereof of flexible material.

2. A heat responsive element for insertion through an automobile radiator cap, and consisting of a compound tubular member containing a heat responsive liquid capable of automatically changing its normal color to an abnormal one simultaneously when the normal conditions of the engine become abnormal, the said member having a glass indicator portion for said liquid projecting above the radiator cap and a continuation thereof of flexible material.

3. A heat responsive element for insertion through an automobile radiator cap, and consisting of a compound tubular member containing a heat responsive liquid capable of automatically changing its normal color to an abnormal one simultaneously when the normal conditions of the engine become abnormal, the said member having a transparent rigid indicator portion for said liquid

projecting above the radiator cap and a continuation thereof adapted to be bent into position to bring its outer end into direct contact with the fluid issuing from the radiator return pipe, and means secured to the other end whereby the said heat responsive element may be attached to the radiator cap.

1,347,318. FLUSHING DEVICE. GEORGE P. BENDER, New York, N. Y. Filed June 21, 1916. Serial No. 104,856. 30 Claims. (Cl. 4—5.)



1. In a flushing device, a receptacle, and means to flush said receptacle automatically when a predetermined weight is contained in said receptacle comprising a tank, an inlet valve, a float, connections between said float and said inlet valve, a lever mounted on said connections, an outlet valve, and connections between said lever and said outlet valve.

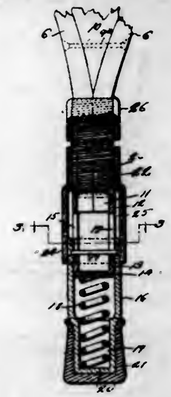
1,347,319. LENS. LUCIAN W. BUGBEE, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 13, 1916. Serial No. 136,686. 5 Claims. (Cl. 88—54.)



1. An ophthalmic lens, comprising a plurality of parts adapted to be joined one to the other, said parts having polished contacting surfaces, and an adhesive interposed between said parts and comprising a powdered transparent mineral matter and a gum which is transparent in a thin film.

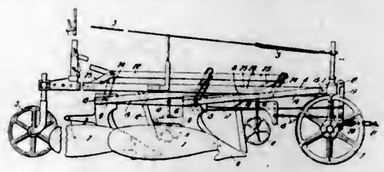
1,347,320. CRUTCH AND CUSHION-TIP THEREFOR. MOSE BRUYERE, Green Bay, Wis. Filed Feb. 17, 1920. Serial No. 359,286. 2 Claims. (Cl. 135—53.)

1. The combination with a crutch having a cylindrical sleeve disposed on its lower end, of a slidable sleeve slidably mounted on the crutch carrying sleeve, slidable connections between the crutch carrying sleeve and the slidable sleeve for preventing rotation of said slidable sleeve and limiting the same in its upward and downward movement, the lower end of the crutch carrying sleeve being closed, the lower end of the slidable sleeve being closed, a spring disposed between said closed ends for normally holding the slidable sleeve extended, and a sleeve



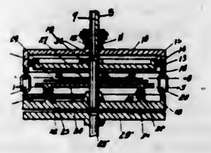
carried by the crutch carrying sleeve and provided with an enlarged portion telescopically engaging over the upper end of the slidable sleeve.

1,347,321. AGRICULTURAL PLOW. EDWARD CORNELL CALEY and CHARLES CREASEY WRAY, Burton Pidsea, near Kingston-upon-Hull, England. Filed Mar. 4, 1920. Serial No. 363,162. 2 Claims. (Cl. 97—36.)



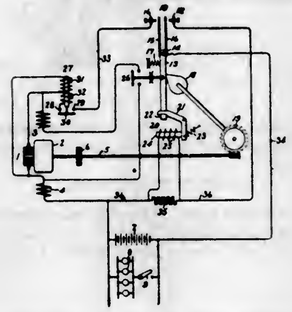
1. The combination, with a wheeled frame, of plows provided with substantially horizontal plow beams, gage wheels supported from the plow beams in front of the plows, downwardly and rearwardly inclined bars having their front ends pivoted to the front end portion of the frame by horizontal pivots and having their rear end portions pivotally connected with the rear end parts of the plow beams, a clevis pivoted on a horizontal axis at the front end portion of the said frame and provided with a draft connection, and links extending longitudinally under the front end pivots of the said bars and connecting the front end portions of the plow beams with the said clevis.

1,347,322. FLUID-CONTROLLED CLUTCH MECHANISM. FRANK M. CAMPBELL, Seattle, Wash. Filed Apr. 15, 1918. Serial No. 228,576. 3 Claims. (Cl. 192—18.)



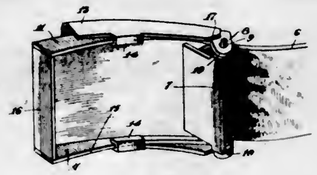
1. A clutch device for actuating air compressors comprising a driven disk mounted to turn with the compressor actuating shaft and movable axially thereof, a driving disk facing thereto, a piston fixed to the compressor actuating shaft, a cylinder for said piston movable on the same shaft, members connecting said driven disk with said cylinder, and independent means acting to yieldingly force said driven member against said driving member.

1,347,323. AUTOMATIC BATTERY-CHARGING SYSTEM. FRANK E. CASE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 14, 1918. Serial No. 266,795. 8 Claims. (Cl. 171—314.)



5. In combination a variable speed generator, driving means therefor, a storage battery, a testing circuit, switching means for connecting said source and battery and connecting said battery and testing circuit, means rotated by said driving means for actuating said switching means, and means responsive to the current in said testing circuit for controlling the actuation of said switching means to connect said source and battery.

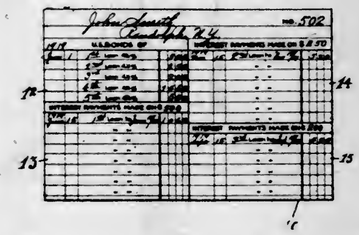
1,347,324. BELT-BUCKLE. LEHMAN H. CRANDALL, Los Angeles, Calif. Filed Oct. 6, 1919. Serial No. 328,671. 4 Claims. (Cl. 24—194.)



1. In a belt buckle, a curved fixed gripping member, a curved fixed gripping member, a curved slidable gripping member having a face plate normally spaced from the fixed member thereon, said face plate formed with a less curvature than that of the fixed gripping member, and means whereby advancing said slidable gripping member longitudinally on said fixed gripping member will operate to move the face plate toward the fixed member to grip a belt interposed between said members.

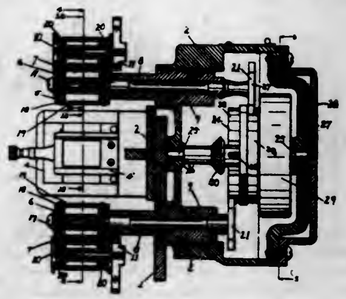
1,347,325. DEVICE FOR TABULATING BONDS AND OTHER SECURITIES. JEROME A. CROWLEY, Randolph, N. Y. Filed Nov. 28, 1919. Serial No. 340,981. 1 Claim. (Cl. 283—57.)

A bank tabulating device for bonds and the like including a depositor's pass book having designated spaces to receive a list constituting acknowledgments by the bank of receipts from the depositor of bonds of the different issues and of the interest borne by each issue, and having a series of divisions one for each of the different bonds so listed, each division having a designated space to receive the amount of the bond and having a series of designated spaces to receive a record of the interest collected by the bank and placed to the credit of the depositor as of the date collected by the bank, and a card for retention by the bank having designated spaces to receive a record list of the different bond issues held by the bank to the credit of the depositor and having a series of divisions one for



each of the different bond issues so listed, each of the last named divisions having designated spaces to receive the amount of the bond and further having a series of designated spaces to receive a record of the interest collected by the bank and held thereby to the credit of the depositor as of the date collected by the bank.

1,347,326. MOTION-PICTURE APPARATUS. RALPH P. DE VAULT, Battle Creek, Mich. Filed Aug. 8, 1918. Serial No. 248,851. 4 Claims. (Cl. 88—18.3.)

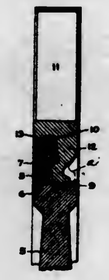


1. In a motion picture apparatus of the class comprising an intermittently driven film and an aperture gate, the combination of a pair of film sprockets disposed one at each side of the gate, feed rollers disposed at the outer sides of the film sprockets to hold the films thereto, guide rollers disposed to engage the film as it passes from the first sprocket and to the second whereby the film is held to the film sprockets and guided to the gate, the film being free from braking friction between said film sprockets, spindles for said film sprockets, star wheels on said spindles provided with slots having outwardly diverging surfaces at the entrance thereof and concave locking surfaces between the slots, and a driving wheel disposed between said star wheels and provided with a pair of oppositely disposed and oppositely projecting pins coacting with said star wheel slots and with recessed cylindrical locking cams on the sides thereof, arranged so that the pins travel over the diverging said surfaces of the slots while the locking cams are in locking engagement with the star wheels.

1,347,327. ELASTIC-FLUID TURBINE. EDGAR D. DICKINSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,576. 3 Claims. (Cl. 253—77.)

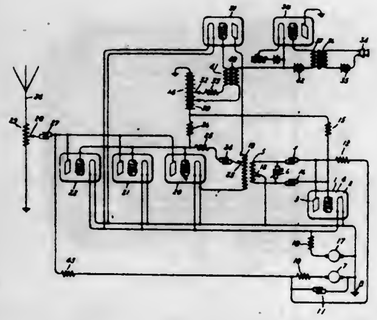
1. In an elastic fluid turbine, the combination of a rotor having a rim provided with a recess in its surface,

an annular flange projecting from such surface, said flange having a recess in the side adjacent to said first named recess, a bucket having a part which hooks over the edge



of said flange, and a leg which engages in said recesses, the end of said leg being driven into said recess in the rim after the bucket is in position.

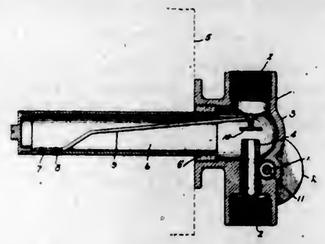
1,347,328. RADIOSIGNALING SYSTEM. ALFRED N. GOLDSMITH, New York, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 29, 1917. Serial No. 158,218. 12 Claims. (Cl. 250—6.)



4. The combination in a radio signaling system of a pliotron oscillator having a resonant circuit associated therewith and so arranged that radio frequency oscillations will be produced in an inductance included in said resonant circuit, a second inductance coupled to the first mentioned inductance and connected in the grid circuits of a plurality of pliotron amplifiers connected in parallel, a pliotron modulator having its cathode and anode connected to said second inductance, means for applying to the cathode and anode of said modulator a different voltage than that applied to the grid circuits of the amplifiers and means for varying the grid potential of said modulator in accordance with variations in a signaling current.

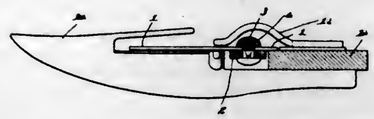
1,347,329. THERMOSTATIC REGULATOR. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Mar. 31, 1919. Serial No. 286,438. 3 Claims. (Cl. 236—33.)

1. A thermostatically controlled valve comprising a pipe coupling, a casing secured thereto and thermally insulated therefrom forming a closed chamber communicating with the coupling, a thermostatic element extending to the coupling and having one end secured to the casing, a self-aliining valve mounted on the other end of



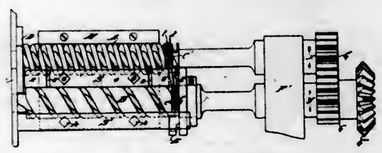
said thermostatic element within the coupling and a valve seat coöperating with the valve to control the passage of fluid.

1,347,330. CUTTER-BAR. LOUIS N. HATHAWAY, MOSES W. TWOMBLY, and ELMER H. HAMMOND, Laconia, N. H. Filed May 8, 1920. Serial No. 379,794. 5 Claims. (Cl. 56—300.)



3. In a cutter bar, the combination of a series of cutter blades, having mutually registering marginal recesses to form bolt-holes, a back strip on which the blade sections are carried, provided with bolt holes recessed longitudinally of the back strip, bolts having lateral extensions to engage the recessed bolt holes, passing through the back strip and said bolt holes, elongated nuts, and projections on the blade sections to engage said nuts.

1,347,331. ADJUSTABLE SADDLE FOR GILL-DRAWING FRAMES. WILLIE HOLDSWORTH, Providence, R. I. Filed June 9, 1919. Serial No. 302,954. 13 Claims. (Cl. 19—6.)



12. In a gill-drawing frame, the combination with the gill-screws and faller-bars operated therefrom, of a fixed support, opposite extensible saddle-sections mounted on said support, means for holding said saddle-sections in alinement, and means for clamping the sections against the support, said clamping means being releasable to allow for longitudinal adjustment of the saddle-sections.

1,347,332. METHOD OF AND APPARATUS FOR DRIVING TUNNELS FOR MILITARY OR OTHER PURPOSES IN EARTH OR SOFT ROCK. AUSTIN HOPKINSON, Guide Bridge, England. Filed Aug. 6, 1917. Serial No. 184,722. 14 Claims. (Cl. 61—86.)

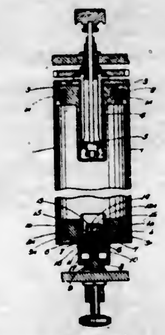
1. An excavator for tunneling, comprising, in combination, a cutter, means for operating the cutter in any

plane, a shaft carrying the cutter, supports for the shaft, and a guide frame in advance of said supports limiting



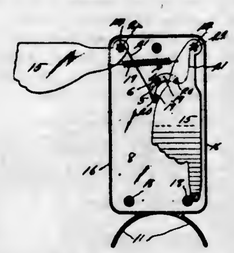
the positions of the cutter and similar in outline to the cross-section of the tunnel to be driven.

1,347,333. TYPEWRITING-MACHINE. CONSTANCE MABEL MEREDITH HOUSTON, Papanui, Christchurch, New Zealand. Filed Feb. 10, 1919. Serial No. 276,143. 4 Claims. (Cl. 197—147.)



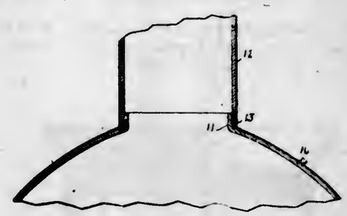
2. In typewriting machines, a cylindrical platen, disk members closing the ends of said cylinder, non-conducting material interposed between the ends of said cylinder and said disk members and means connected to one of said end disk members to create a partial vacuum within said cylinder.

1,347,334. DIRECTION-INDICATOR FOR BICYCLES. EDMISTON P. JOHNSON, Decatur, Ill. Filed Apr. 6, 1920. Serial No. 371,709. 1 Claim. (Cl. 116—36.)



The combination with a bicycle, of a direction indicator therefor, said direction indicator comprsing a casing adapted to be secured to the mud guard of the rear wheel, indicator arms having their upper ends pivoted in the upper end of the casing at each side thereof, a spring connected to the indicator arms at points below their pivotal points, limiting stops for limiting the inward movement of the arms, a rockable operating shaft disposed in the casing at a point between the indicator arms, said rockable shaft being provided with outwardly extending arms, drums carried by the indicator arms at their pivotal points, flexible connections between the operating rod arms and the drums whereby said drums may be rotated as either arm is moved downwardly and means for operating the rotatable operating shaft from adjacent the handle bars of the bicycle.

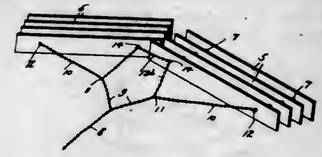
1,347,335. METAL REFLECTOR AND METHOD OF MAKING THE SAME. FRANK E. JONES, Sebring, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Apr. 19, 1918. Serial No. 229,541. 4 Claims. (Cl. 113—112.)



1. The method of making metal reflectors which consists in separately forming a bowl portion with a shoulder surrounding an aperture therein and a heel portion with an end to fit against said shoulder and then welding said end to said shoulder.

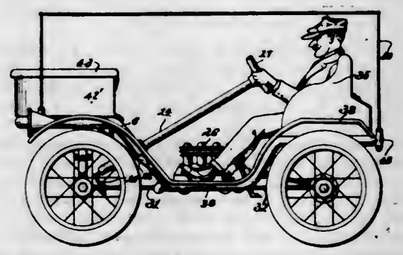
4. A metal reflector comprising a bowl portion and a comparatively long heel portion, said bowl portion having an aperture in its top surrounded by a shoulder and said heel portion being welded at its lower end to the outside of said shoulder and to the adjacent part of the bowl portion so as to form a smooth junction therewith.

1,347,336. ROAD-DRAG. JOHN C. KARR, Chicago, Ill. Filed Jan. 6, 1919. Serial No. 269,867. 1 Claim. (Cl. 37—5.)



A road scraper comprising a pair of drag units, a flexible connection between the units for holding the same in laterally spaced relation, a draft chain connected to each unit, one end of said chain being detachably connected to the unit near its outer end and the other end of the chain near the inner end of the unit, a hauling chain having diverging branches connected respectively to the draft chains intermediate the ends of the latter, and means on the rear of the units for connection of the draft chains to permit reversal of the units.

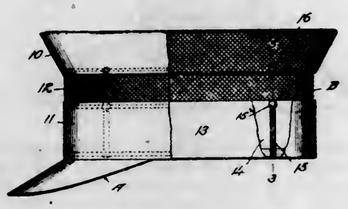
1,347,337. AUTO-CHASSIS. GEORGE L. KLINE, St. Louis, Mo. Filed Aug. 9, 1919. Serial No. 316,316. 5 Claims. (Cl. 180—1.)



1. An automobile chassis comprising tubular side members provided with downwardly and inwardly bent por-

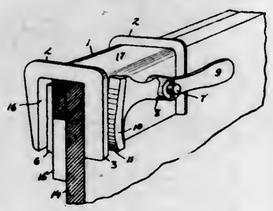
tions forming a support for a motor, transverse members connected to said side portions at the front and rear and forming with said side portions a horizontal support for the rear seat and a horizontal support for a container or front seat.

1,347,338. CONVERTIBLE HAT. THOMAS S. KNOTTS, Little Rock, Ark. Filed July 28, 1919. Serial No. 313,688. 2 Claims. (Cl. 2—114.)



2. In a hat, a crown portion having openings in the side thereof, a shutter movable longitudinally with respect to the crown to cover and uncover said openings, elastic elements secured to the crown and shutter for holding said shutter normally out of covering relation to the openings, and coöperating fastening devices on the shutter and crown for positively and detachably holding the shutter in covering relation to said openings against the influence of said elastic members.

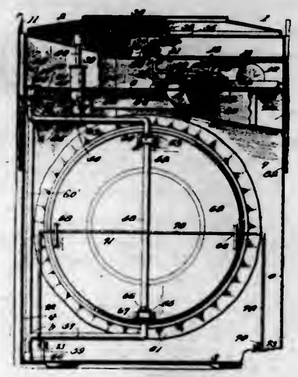
1,347,339. ANCHOR-ROPE FASTENER. SAMUEL L. KUNTZ, Fort Wayne, Ind. Filed Apr. 26, 1920. Serial No. 376,453. 1 Claim. (Cl. 114—199.)



In a device of the class described for a boat, a U-shaped base forming a shield for the upper edge of the boat and having a laterally projecting jaw; a securing means in connection with one side of the base for clamping the side of the boat against the opposite side of the shield; and an operating lever pivotally supported in connection with one side of the shield and extending parallel therewith, and having a cam shaped jaw for clamping a rope against the jaw on the shield.

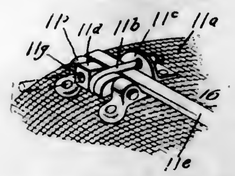
1,347,340. GAS-METER. GEORGE A. LANE, Chicago, Ill., assignor to American Meter Company, Incorporated, New York, N. Y., a Corporation of Delaware. Filed Jan. 9, 1919. Serial No. 270,301. 8 Claims. (Cl. 73—1.)

1. In a gas meter, in combination, a meter casing, having diaphragm compartments therein, a valve table, valves on said table, a double diaphragm in each compartment, a flagstaff in each compartment formed in two sections out of alinement with each other, and connections between the two sections whereby the oscillation of one section will communicate similar movement to the other, an operating shaft, connections between the operating shaft and one of the flagstaff sections, whereby a rotary motion is given the shaft upon the expansion and collapse of the diaphragms, and connections between the



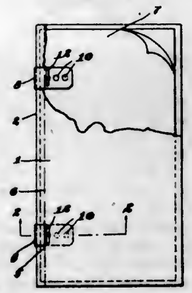
operating shaft and the valves, whereby the flow of gas into and out of the diaphragms and their compartments is controlled.

1,347,341. DETACHABLE FASTENER FOR CYLINDRICAL SCREENS. WILLIAM LOGAN LEACH, Brownwood, Tex. Filed Apr. 10, 1917. Serial No. 160,983. 1 Claim. (Cl. 292—98.)



In an apparatus of the character described, a clamping connection for relatively movable parts including a bracket carried by one of said parts, a pair of laterally spaced bearing members carried by the other of said parts, a shaft having its ends journaled in the said bearing members and having an eccentric portion and a tool receiving socket between the bearing members, and a bolt one end of which is loosely adjustably mounted through the bracket and the opposite end of which has a hook detachably engaging the eccentric portion of the said shaft as and for the purpose set forth.

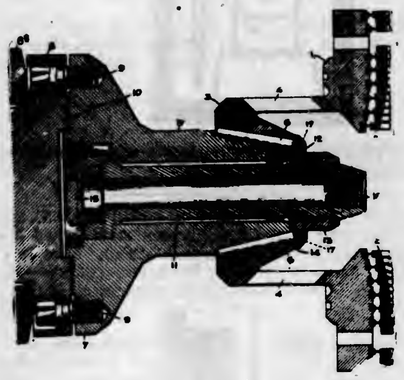
1,347,342. LOOSE-LEAF BINDER. LEO R. LEWIS, Somerville, Mass. Filed Oct. 30, 1919. Serial No. 334,410. 10 Claims. (Cl. 129—19.)



1. A loose-leaf binder having a pair of slots in the region of its binding edge, and a strap of flat, flexible

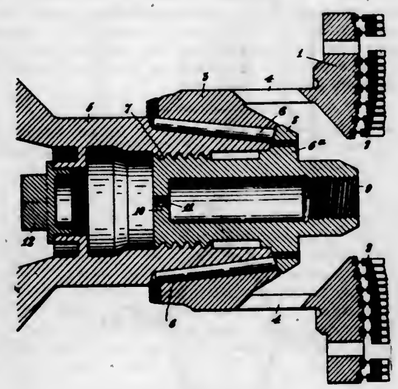
material extending over the outside of the binder between the slots with its free ends extending through said slots to the inside of the binder.

1,347,343. MEANS FOR SECURING TURBINE-ROTORS TO THEIR SHAFTS. BIRGER LJUNGSTRÖM, Stockholm, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, a Corporation of Sweden. Filed Mar. 25, 1919. Serial No. 285,032. 6 Claims. (Cl. 253—39.)



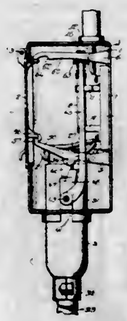
1. In a turbine, the combination of a rotor, a hollow shaft having a tapered end to which the rotor is keyed, a tension member which is carried by the shaft, and means mounted on the member for holding the rotor on the shaft and said member under tension.

1,347,344. MEANS FOR SECURING TURBINE-ROTORS TO THEIR SHAFTS. FREDRIK LJUNGSTRÖM, Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden, a Corporation. Filed Apr. 15, 1919. Serial No. 290,355. 2 Claims. (Cl. 253—39.)



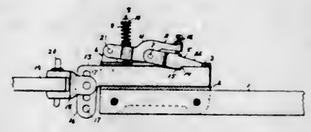
1. In a turbine, the combination of a rotor, a hollow shaft having a tapered end to which the rotor is keyed, and a hollow tension member having a fixed flange on its inner end which engages said rotor, the outer end of said member being connected to said rotor for putting such member under tension.

1,347,345. COMBINATION SAFETY SWITCH AND RECEPTACLE. JOHN LOFGREN, Chicago, Ill., assignor to Ralco Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 26, 1918. Serial No. 268,311. 9 Claims. (Cl. 200—50.)



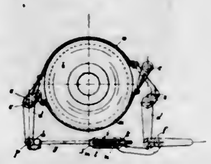
2. In a device of the class described, the combination of a switch box, a door for closing it, a receptacle carried by the box, a plug for the receptacle, and locking means for holding the door closed, said locking means being held by the plug in acting position when the plug is in position within the receptacle, whereby the door cannot be opened without first withdrawing the plug.

1,347,346. SAFETY TRACTOR-HITCH. DAVID F. LONDT, Columbia City, Ind. Filed June 6, 1919. Serial No. 302,337. 1 Claim. (Cl. 213—67.)



In a hitch for connecting a tractor and plow, a socket on the plow-beam; a draw-bar extending removably into the socket; a pair of toggles pivoted together, one having pivotal support on the socket and the other locking engagement with the draw-bar; a spring for holding the toggles in locking position; and adjustable means in connection with one of the toggles and having bearing relation with the other to limit the relative movement thereof.

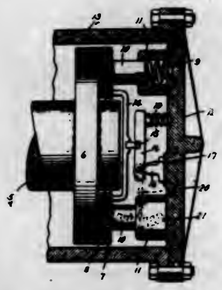
1,347,347. BRAKE. EDWARD D. MACKINTOSH, Brooklyn, N. Y., assignor to S. S. Hepworth Company, New York, N. Y., a Corporation of New York, and Edith M. Mackintosh, Brooklyn, N. Y. Filed July 24, 1918. Serial No. 246,600. 2 Claims. (Cl. 188—77.)



1. A brake drum, two bands secured, at one end of each, to two anchorages at diametrically opposite sides of the drum and bearing on the cylindrical face thereof, two levers pivoted and secured to the other ends of the bands,

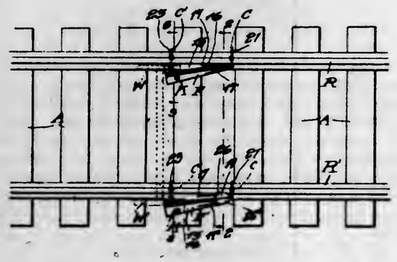
and an elastic toggle, including a coil spring under compression, connecting the two levers and forcing the bands against the drum by swinging the levers on their fulcrums.

1,347,348. THRUST-MEASURING INSTRUMENT. CAMPBELL MACMILLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 14, 1919. Serial No. 277,073. 2 Claims. (Cl. 265—68.)



1. The combination with a continuously rotating shaft which is subjected to axial thrust, of a thrust collar on the shaft, an annular thrust plate which engages said collar, a casing, a head fixed to an end of said casing, spring means located between said head and thrust plate and directly engaging the thrust plate to hold it against said thrust collar and take the thrust of the shaft, and means for indicating axial movements of the shaft and thrust plate.

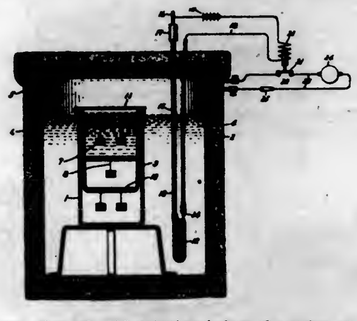
1,347,349. CAR-REPLACING DEVICE. WILLIAM MATNEY, Stacy, Va. Filed Nov. 3, 1919. Serial No. 335,251. 4 Claims. (Cl. 104—269.)



1. A car replacing device comprising a pair of frog members, each member comprising a tapered body having an inclined upper face, a rib formed centrally of said face and having inclined side walls, said body having the side walls thereof formed with recessed portions to provide shoulders which are adapted to engage the under side of the head of a rail, a depending flange formed on the under side of said body and extending longitudinally thereof, said flange having inclined sides and tapering in width, chains secured to the under side of said body portion, and hooks carried by said chains which are adapted to engage the base of a rail.

1,347,350. CRYSTAL PRODUCTION. ROY W. MOORE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 26, 1918. Serial No. 219,312. 8 Claims. (Cl. 23—13.)

1. The method of producing crystals which consist in producing supersaturation in a solution of the material to be crystallized, maintaining said solution supersaturated when crystallization has begun but holding the degree of



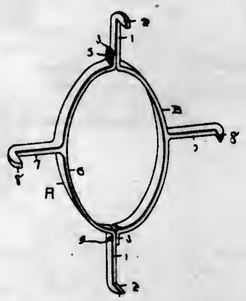
supersaturation of said solution below the point at which irregular crystallization occurs.

1,347,351. PACKING DEVICE FOR PISTONS, RAMS, RODS, AND THE LIKE. ANGUS MURRAY and ANGUS ROBERTSON MURRAY, Glasgow, Scotland. Filed July 29, 1919. Serial No. 314,175. 4 Claims. (Cl. 286—33.)



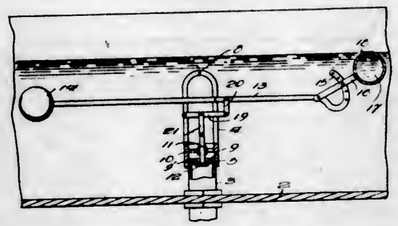
1. In a packing device for pistons, rams, rods and the like, a number of conoidal rings of a malleable or deformable metal or alloy, the ring being of radial width greater than its thickness, a joint forming lip on the ring and means for so supporting the ring that its lip is free to act under pressure as a strut or buttress against the surface where joint is to be made.

1,347,352. HOG-YOKE. TILLMAN D. RICKS, Lyons, Ga. Filed Oct. 16, 1919. Serial No. 331,142. 1 Claim. (Cl. 119—138.)



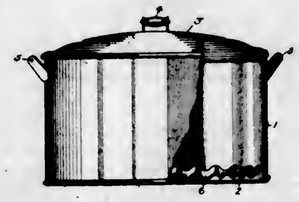
An animal yoke comprising a pair of sections identical to each other, and adapted to be reversed when connected together, each section formed with a bowed portion, a foot at one end of the bowed portion, an arm at the other end of the bowed portion, and in alinement with said foot, a second arm projecting laterally from the bowed portion medially thereof, hook ends on said arms, the foot and first-named arm being flat, whereby when the two sections are reversed relative to each other, the foot on each section will rest against the arm adjacent thereto of the other section, and removable fasteners passed transversely through the feet and arms adjacent thereto of both sections for detachably securing said sections together.

1,347,353 AUTOMATIC TROUGH-VTLVE. FRITZ STRIEGLER, Fort McKavett, Tex. Filed May 21, 1918. Serial No. 235,787. 2 Claims. (Cl. 137—104.)



1. The combination with a trough having an inlet pipe extending therein, of a valve normally seated by water pressure for regulating the inflow of water from the pipe, a horizontal operating lever connected with the valve, a submerged counter-balancing weight on one end of the lever, and a normally submereged float at the opposite end of the lever, the weight of the float when submerged being the same or slightly less than that of the counter-balance and greater than that of the counter-balance when resting on the surface of the water whereby to move the lever and unseat the valve when the surface of the water falls below said float.

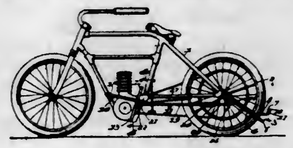
1,347,354. WASHBOILER. ANTONIO T. TIMOSCI, San Jose, Calif. Filed Dec. 5, 1919. Serial No. 342,695. 1 Claim. (Cl. 68—30.)



A wash boiler having rigidly held within the same a false bottom for supporting the clothes to be washed above the bottom of the boiler, said bottom being of imperforate material and shaped to fit within the boiler and having a relatively narrow and relatively long slot at the center of the boiler extending from near one end of the boiler to near the other, said bottom having alternating ribs and grooves extending from the outer edges thereof inwardly toward the slot and inclining downwardly from its peripheral edge toward the slot.

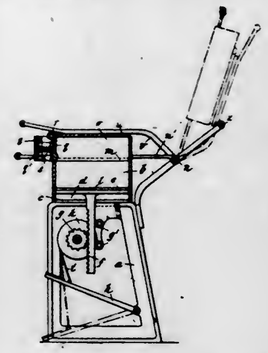
1,347,355. MOTORCYCLE-STAND. CLARENCE B. TINSLEY, Cleveland, Ohio. Filed May 12, 1919. Serial No. 296,416. 2 Claims. (Cl. 208—75.)

1. A device of the character described including a swingingly mounted support, a pivotally mounted foot pedal, a rigidly mounted rack bar composed of spaced sides, a plurality of teeth, a shoulder formed on the inner surface of one of the sides of the rack bar, the shoulder being positioned near the rear end of the rack bar, the foot pedal operating between the sides of the rack bar and being engageable with any of the teeth or the shoulder, a connecting rod operably arranged betwen the pedal and the support, and a coil compression spring connected to the



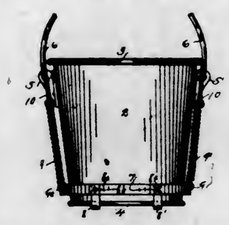
connecting rod near its point of connection of the pedal and to the frame for either facilitating the maintenance of the pedal in engagement with any one of the teeth so as to consequently retain the support in an operative position or for automatically returning the support to an inactive position so that the lever will be positioned in engagement with the shoulder.

1,347,356. MACHINE FOR MOLDING CONCRETE OR LIKE BLOCKS. GEORGE ALEXANDER TONKIN, London, England, assignor of one-half to Percy Evans, London, England. Filed Dec. 15, 1919. Serial No. 344,997. 8 Claims. (Cl. 25—41.)



8. In a machine for molding concrete blocks, the combination of a lower mold part, a tray, means for moving the said tray through the said lower mold part, and a combined rammer and upper mold part mounted so as to be movable relatively to the said lower mold part.

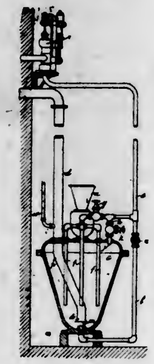
1,347,357. GUARD FOR METAL PAILS. JOHN C. WRIGHT, Syracuse, N. Y. Filed Aug. 28, 1919. Serial No. 320,373. 3 Claims. Cl. 220—69.)



1. The combination with a pail having perforated lugs at its opposite sides, of a hoop loosely slipped over the bottom end of the pail, U-shaped guards having their free ends secured to the hoop and spaced apart to receive and support the bottom of the pail, and tension springs resiliently connecting the hoop to the lugs of the pail.

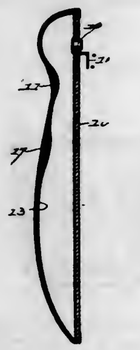
2. In a device of the class described, the combination with a pail, of a ring loosely encircling the bottom portion of the pail, U-shaped runners rigidly secured to said ring and supporting the weight of the pail, said runners disposed parallel to each other and spaced apart to prevent the rocking of the pail, and tension springs for detachably securing the device to the pail.

1,347,358. FLUID OR AIR DIRECT-PRESSURE LIFTING AND FORCING APPARATUS FOR SOLIDS AND SEMISOLIDS. SAMUEL HENRY ADAMS and COLIN HENRY ADAMS, Fulford, England. Filed Feb. 28, 1919. Serial No. 279,830. 3 Claims. (Cl. 302—53.)



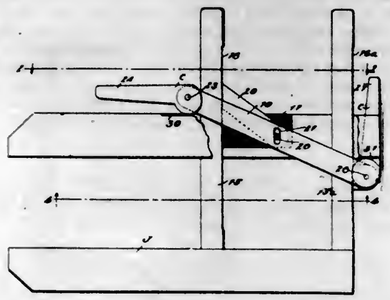
1. A displacement ejector consisting of a closed receiver with an inlet for the material to be ejected, air-pipe-connections to the upper part of the receiver, a plurality of air-pipes opening in a downward direction into the body of the receiver near the lower part thereof, a discharge pipe extending into said receiver and opening in a downward direction near the bottom of said receiver, an air pipe extending into the bottom of said receiver and opening upward in the direction of the inlet of the discharge pipe, a source of compressed air, an air-outlet and a power-actuated valve whereby said air-pipes are alternately connected to the source of compressed air and are disconnected therefrom.

1,347,359. PNEUMATIC NECKTIE. JOSEPH K. ALLISON, Iowa Falls, Iowa. Filed Jan. 15, 1920. Serial No. 351,676. 3 Claims. (2—83.)



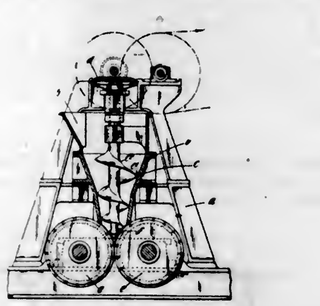
1. A necktie having a base or backing and a flexible facing carried thereby, and an inflatable sack or lining interposed between said base or backing and the facing.

1,347,360. PORTABLE CLAMP. ALOIS ANTHONY, Baltimore, Md. Filed Dec. 11, 1919. Serial No. 344,069. 3 Claims. (Cl. 144—297.)



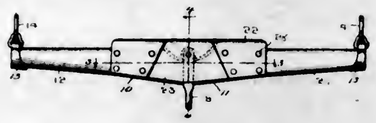
1. A wood working clamp comprising a stationary jaw, beams carried by said jaw, a movable jaw slidable on said beams, links pivoted on the movable jaw, and cam levers carried by said links and engageable with the opposite sides of the movable jaw for effecting when operated a movement on the forward end of the movable jaw toward the stationary jaw, and a rearward movement of the opposite end of the movable jaw away from the stationary jaw.

1,347,361. BRIQUET-MOLDING MACHINE. DANDRIDGE HUNT BIBB, Aldwych, London, England. Filed July 11, 1919. Serial No. 310,240. 6 Claims. (Cl. 25—77.)



1. A briquet molding machine comprising a framework, a pair of rollers, a hopper above the rollers, a tapered lower part to the hopper, a tapered screw in the said lower part and having a web which is sloped downwardly from about the center to the outer edge the said screw having its smaller end adjacent the periphery of the said rollers, means for rotating the rollers in opposite directions and means for rotating the said screw.

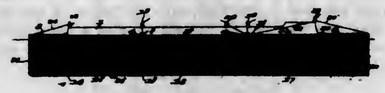
1,347,362. SWINGLETREE. WILLIAM F. BOSSE, Stamford, Tex. Filed Feb. 19, 1920. Serial No. 359,777. 4 Claims. (21—78.)



1. A draft appliance of the character described comprising a swinging member having trace-attaching devices

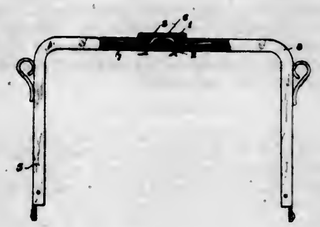
at its ends, a clevis loosely connected with the member, a saddle carried by the member and having a concave runway for the clevis to traverse, a covering saddle plate for the first-named saddle, and a roller in the clevis and contacting with the wall of the runway.

1,347,363. TORPEDO-NET FOR SHIPS. CHARLES F. DATHAN, Chicago, Ill. Filed Dec. 7, 1918. Serial No. 265,808. 2 Claims. (Cl. 114—240.)



1. The combination with the hull of the ship of vertically swinging booms on the bow and stern thereof, laterally swinging booms on the sides of the hull, a sectional shield composed of a plurality of reticulated sections, connecting cables trained through the adjacent edges of the sections and through the ends of the laterally swinging booms and connecting to the hull at their terminals, other connecting cables trained through the outer side edges of the end sections for connecting them together and also trained through the outer ends of the vertically swinging booms and having their upper terminals connected to the bow and stern of the hull, and supporting cables trained through the ends of the booms and the upper edges of the sections of the shield and connected to the hull.

1,347,364. FASTENER FOR BAGS, PURSES, AND THE LIKE. HENRY EDMONDS, Birmingham, England. Filed Aug. 11, 1919. Serial No. 316,742. 2 Claims. (Cl. 292—228.)

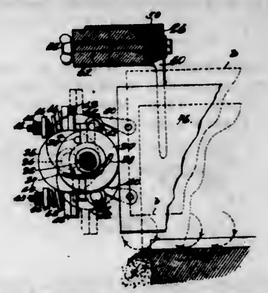


1. A device of the character described comprising, in combination, two frame members, one frame member having an aperture therein, a spring adapted to bear on the underside of said frame member and having a bent portion adapted to project through said aperture for vertical spring movement therein, a catch lever having a channeled lug adapted to engage the bent portion of said spring and being adapted to fulcrum at one edge upon said frame member and means carried by said catch member and the second frame member for securing said frame members in latched position.

1,347,365. HAMMER-SAW OR LINE-HAMMER. HENRY J. FLETCHER, Brainerd, Minn. Filed Oct. 24, 1918. Serial No. 259,552. 9 Claims. (Cl. 125—1.)

1. In a machine of the character described, a suitable overhead frame, a counterbalanced frame mounted upon the overhead frame and having vertical movement with respect to the said overhead frame, and means for channeling the stone, the said means comprising a cutting member mounted upon the counterbalanced frame, and devices

mounted upon the said counterbalanced frame for imparting simultaneous longitudinal and vertical move-



ment to the channeling member, whereby to cause the said member to impart rapid hammering blows against the stone.

1,347,366. SPARK-PLUG-CLEANING DEVICE. JOHN T. GALBREATH, Cynthiana, Ky. Filed Aug. 4, 1919. Serial No. 315,235. 4 Claims. (Cl. 141—7.)



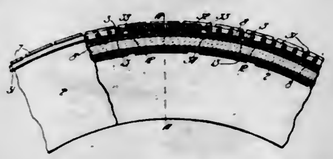
1. A spark plug cleaning device comprising a hollow body adapted at one end to detachably receive the threaded portion of a spark plug for the positioning of the electrodes of the latter interiorly of said body, and brushing means interiorly of the body for brushing action upon the electrodes of the spark plug to clean the same.

1,347,367. SPARKING PLUG FOR INTERNAL-COMBUSTION ENGINES AND METHOD OF MANUFACTURING THE SAME. CHARLES EMILE GERBAUD, Paris, France. Filed Feb. 24, 1919. Serial No. 278,694. 3 Claims. (Cl. 123—169.)



1. The herein described process for manufacturing spark plugs, for explosion motors consisting in casting a glass insulator on a metal rod which forms an electrode and then immediately while the insulator is in a plastic state, casting a metal shell upon the insulator.

1,347,368. NON-SKID PROTECTOR. THOMAS H. GYTON, Collingwood, Victoria, Australia. Filed Sept. 23, 1918. Serial No. 255,375. 3 Claims. (Cl. 152—16.)



2. A non-skid protector comprising a resilient spacing member adapted to fit in an annular groove formed in the tread of a tire, a series of plates having U-shaped projections adapted to fit in the groove, said plates being se-

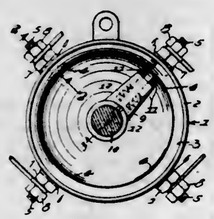
cured to and held in spaced relation by the resilient spacing member, and flexible means for holding the plates in the groove to prevent centrifugal movement of said plates.

1,347,369. DRAFT-HOOK. MARTIN D. HAMRICK, Chehalis, Wash., assignor of one-half to Andrew E. Young, Chehalis, Wash. Filed May 3, 1919. Serial No. 294,608. 5 Claims. (Cl. 24—241.)



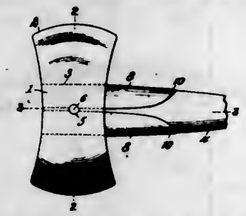
4. A draft hook comprising a shank or stem, a curved bill, a guard pivotally connected at one end to the shank or stem and movable to and from a position where it will close the opening between the shank and bill, a projection on the shank adjacent the pivotal point of the guard, a locking ring surrounding the shank and movable to and from engagement with the guard past said projection, the ring having an interior groove to receive said projection and being adapted to be turned about the shank when it is between the projection and guard, to constitute a lock for holding the guard in closed position.

1,347,370. TIMER FOR INTERNAL-COMBUSTION ENGINES. OSCAR H. HASSELBAUM, Fresno, Calif. Filed May 15, 1918. Serial No. 234,639. 1 Claim. (Cl. 200—26.)



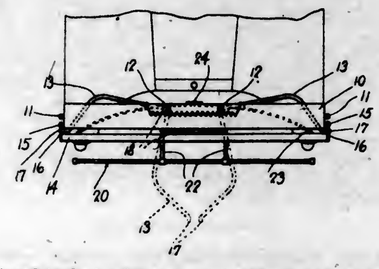
In a spark timing-device, the combination of a casing, an insulating ring carried in the casing, contact segments inset in the inner periphery of said ring, a rotating shaft having a portion within the casing and being concentrically disposed with reference to said ring, a brush holder within the casing and carried by and rotated by said shaft, and a pair of yieldably mounted brushes carried in the said holder and disposed side by side, the brushes bearing upon the insulating ring and the segments but being so positioned that one leads the other in the direction in which they move, as herein shown and specified.

1,347,371. AX-HANDLE SHIELD AND FASTENING. WILLIAM THOMAS HATTEN, Hay Creek, Oreg. Filed Apr. 29, 1919. Serial No. 293,489. 3 Claims. (Cl. 287—36.)



1. The combination with an ax head or similar tool having an eye and a handle therefor, a metallic shield plate U-shaped in cross section bent to conform to the shape of the handle and practically surrounding the same at the end where entering the eye, said plate fitting against the wall of the eye and extending across the plane of action of the tool and projecting along the handle beyond the inner side of the head a sufficient distance to serve as a protection for that portion of the handle contiguous to the head, said plate having an equal thickness throughout and a width within the eye greater than the corresponding dimension without the eye, said handle having a transverse bore, said ax head also having a transverse bore, said shield plate having a transverse seat, a wedge adapted to be driven into the end of the handle where entering the eye of the ax head and having a transverse aperture adapted to register with the bores in the handle and head and the seat in the shield, and a transverse pin of a size to fit the specified bores, aperture and seat to hold the parts together.

1,347,372. LIFE-SAVING DEVICE. IGNATIUS A. HEBERT, New Orleans, La., assignor to The Hebert Life Saving Device Co., Inc., New Orleans, La., a Corporation of Louisiana. Filed Sept. 26, 1919. Serial No. 326,468. 5 Claims. (Cl. 293—16.)



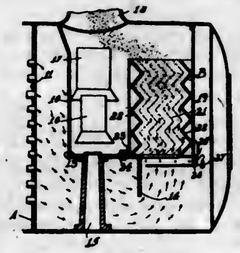
1. A safety device for automobiles having laterally movable cooperating grappling arms for grasping the body of a person with which the vehicle collides, and an impact member movable rearwardly upon engagement with an object in the path of the vehicle for controlling the movement of the grappling arms, said impact member consisting of a cross bar and suspending arms and being yieldingly held in and returned to its advanced position subsequent to impact with an object.

1,347,373. ATTACHMENT FOR SODA-FOUNTAIN FAUCETS. JAMES H. HOLLAND, St. Louis, Mo., assignor to Holland Manufacturing Co., St. Louis, Mo., a Corporation of Missouri. Filed Apr. 23, 1920. Serial No. 375,981. 10 Claims. (Cl. 259—44.)



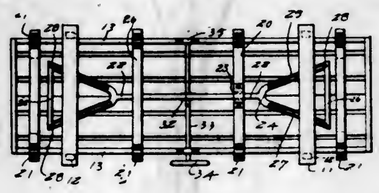
1. An attachment for soda fountain faucets, having a gassing discharge passage and filling discharge passages, in combination with a revoluble stirrer operated incidentally to the discharge of liquid from said filling discharge passages.

1,347,374. SPARK-ARRESTER. ALBERT EDMUND HUDSON, Calgary, Alberta, Canada. Filed Oct. 13, 1919. Serial No. 330,191. 1 Claim. (Cl. 183—99.)



A spark arrester and extinguisher of the class described, comprising a removable section of box-like formation open at the top and bottom, a plurality of corrugated baffle walls in the section, and a pair of corrugated and finely perforated plates embracing the baffles and located against the front and rear walls of the section.

1,347,375. DUMPING-BED FOR WAGONS. JOHN WILLIAM HUFFMAN, Marion, Mich. Filed Sept. 25, 1918. Serial No. 255,657. 6 Claims. (Cl. 298—27.)



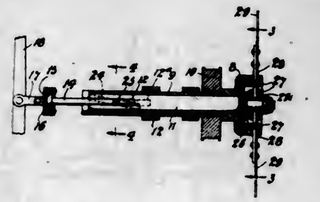
1. A dumping apparatus including a plurality of spaced sections, a plurality of releasing sections coacting with the spaced sections, forks having their arms slidably connected with the releasing sections, and means to reciprocate the forks for positioning said releasing sections.

1,347,376. RAIL-JOINT. JOHAN JANIK, Johnstown, Pa. Filed Mar. 5, 1920. Serial No. 363,371. 2 Claims. (Cl. 238—226.)



1. A rail joint comprising a pair of fish plates, means for connecting one plate with the rails, a member carried by said plate of the same cross sectional shape as the rails and adapted to fit between the ends of the rails, said second fish plate having longitudinally extending keyways therein, keys on said member for engaging said keyways and means for locking said second plate against movement.

1,347,377. REVERSING FAN. PETER JENSEN, Wayne, Alberta, Canada. Filed Aug. 8, 1919. Serial No. 316,213. 1 Claim. (Cl. 170—163.)



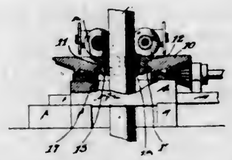
A variable pitch fan mechanism for use in combination with automobile radiators, comprising a tubular shaft, a casing made on the tubular shaft, a gear transmission contained in the casing, fan blades related with the gear transmission, said shaft provided with a longitudinal bore and a transverse bore, a shaft confined in the longitudinal bore, a pin fixed to the shaft and confined in the transverse bore, the shaft having a journal-head bearing connection made on the outer end thereof, and a lever attached to the journal-head bearing connection to effect a change of the pitch of the fan blades.

1,347,378. SPARK-GAP INDICATOR. TOMLINSON F. JOHNSON, Jr., Atlanta, Ga. Filed Jan. 12, 1920. Serial No. 350,764. 9 Claims. (Cl. 175—183.)



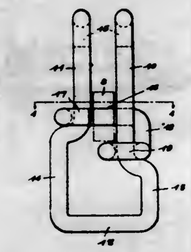
1. In a high tension alternating current transmission line, an insulator for supporting the line conductor having a series spark gap between the line conductor and ground.

1,347,379. ATTACHMENT FOR ROTARIES. HORACE G. JOHNSTON, Corsicana, Tex., assignor to Genevieve Johnston, Corsicana, Tex. Filed May 28, 1919. Serial No. 300,459. 3 Claims. (Cl. 255—23.)



1. The combination with a rotary table having a central opening of an inwardly extending ledge formed therein with an aperture formed therethrough, a bushing proportioned to be inserted through the opening and having a flange proportioned to rest upon the ledge and means formed upon the bushing proportioned and positioned to pass through said aperture and engage under the ledge and prevent the withdrawal of the bushing from the central opening except when said aperture and means register.

1,347,380. UNCOUPLING DEVICE FOR CAR-COUPLINGS. EDWIN JONES, Cleveland, Ohio. Filed Aug. 28, 1919. Serial No. 320,350. 5 Claims. (Cl. 213—59.)



1. A device for connecting a movable locking member and a movable releasing member together comprising a link carried by the locking member, a connector carried by the releasing member, and coacting means carried by said link and said connector for slidably coupling said link to said connector, said means being arranged for disengagement by a rotary movement of said connector with respect to said link, whereby to detach said connector from said link while said connector remains attached to said releasing member.

1,347,381. RIFLE-CLEANING ROD. JOHN BERTRAND JONES, Brookville, Pa. Filed Feb. 9, 1920. Serial No. 357,151. 6 Claims. (Cl. 42—92.)



1. An implement of the character described including two sections pivotally connected to each other whereby the sections may be turned into parallel relation or into alinement, a longitudinally slotted sleeve mounted upon one of said sections, said section having a transverse pin engageable with the slots of the sleeve, the slots of the sleeve being open at one end and the sleeve being provided with notches in its end between said slots with which said pin is adapted to engage, and means for releasably locking the sleeve in position with its notches in engagement with the pin to thereby hold the sleeve from longitudinal shifting movement and over the joint between the sections.

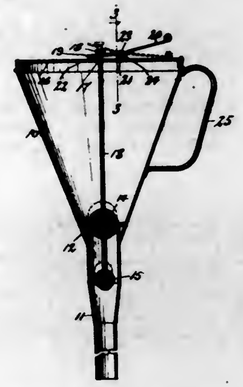
1,347,382. CANE. WILLIAM W. KARRO, Great Neck, N. Y. Filed Oct. 3, 1919. Serial No. 328,188. 2 Claims. (Cl. 46—37.)

1. A toy comprising a cane or wand, an electro-magnet embedded in the cane and having one end exposed, a battery mounted within the cane adjacent the handle thereof, wires connecting the magnet and battery and a switch



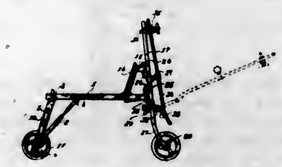
connected in circuit with said parts and disposed in convenient reach of the user for the purpose specified.

1,347,383. FUNNEL. WILLIAM F. KENDT, Buffalo, N. Y. Filed Oct. 7, 1919. Serial No. 329,034. 2 Claims. (Cl. 226—36.)



1. A funnel comprising a body or receptacle having an outlet at its lower small end and a valve seat around said outlet, a cross bar extending over the upper end of said body and connected at its opposite ends to said body on diametrically opposite sides thereof, an upright rod guided at its upper end on said cross bar and provided with a valve which controls said outlet, a loop secured to the upper side of said cross piece, and a lever having a downwardly-bent central part which is confined between said loop and cross piece and having one of its arms connected with said rod while its other arm serves as a handle.

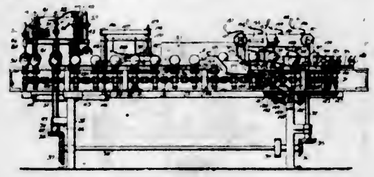
1,347,384. TOY. ROBERT M. KINNARD, Trenton, N. J. Filed Oct. 20, 1919. Serial No. 331,829. 3 Claims. (Cl. 208—165.)



1. A device of the character described, comprising a steering post, a bracket connected thereto and provided

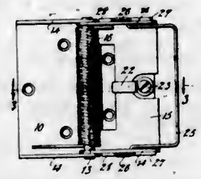
with a pair of angularly disposed channels, a seat member, an upright member connected to the seat member and means for attaching said seat member to either of the channel portions of the bracket to convert the device into a vehicle designed for a sitting or standing position, the seat member being located in a horizontal plane when one of said channels is engaged and the upright member being located in a horizontal plane and forming a foot support when the other channel is engaged.

1,347,385. MACHINE FOR PEELING TOMATOES. CHARLES KIRINO, Ogden, Utah. Filed Jan. 28, 1920. Serial No. 354,639. 21 Claims. (Cl. 146—14.)



1. A machine for peeling tomatoes or similar articles, including an endless carrier belt having its runs approximately in a horizontal plane, holders on said belt adapted to receive the individual articles and accessible at the feed point of the machine for the placing thereon of the articles to be peeled, and means disposed about the machine adjacent to the path of travel of the belt, to perform successive operations on the articles for effecting the removal of the skins.

1,347,386. DETACHABLE SPRING-HINGE. PHILIP KLEIN and HARLAND HUMPHREY, Mansfield, Ohio. Filed Sept. 23, 1919. Serial No. 325,732. 3 Claims. (Cl. 16—25.)



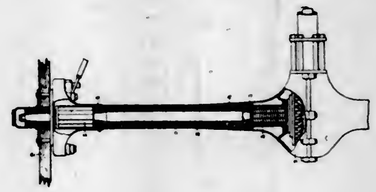
2. A detachable spring hinge consisting of two leaves pivoted together, one of said leaves being fixed to a swinging member, a plate fixed to the frame of said swinging member, an opening in the other of said leaves, an offset flange formed on said plate arranged to engage the edge of said opening, a depending flange formed on the edge of the last mentioned leaf and arranged to engage the edge of said plate, and a finger pivoted to said plate so as to engage the last mentioned leaf thereby locking said leaf to the plate.

1,347,387. PAINT COMPOSITION. KUSTAA KOIVISTO, Portland, Oreg. Filed Mar. 28, 1919. Serial No. 285,899. 2 Claims. (Cl. 134—52.)

2. A paint composition comprising a mixture of twelve pounds of copper sulfate and twelve pounds of alum, thirty-eight pounds of rye flour, one hundred and twenty-five to one hundred and fifty pounds of dry coloring matter, two gallons of pine tar and ten gallons of linseed oil.

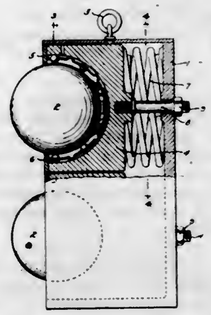
1,347,388. LUBRICATING-PACKING. HARRY A. LACERDA, Schenectady, N. Y., assignor of one-half to Ralph W. Benson, New York, N. Y. Filed Oct. 17, 1917. Serial No. 197,068. 1 Claim. (Cl. 286—7.)

In a vehicle having a driving axle, a housing through which extends the driving axle, and a bearing at each end of said driving axle, a tubular packing filling the annular space between the axle and the housing, said packing being made in short sections and pliable to permit of tightly packing it in said annular space so as to



completely fill said space from one bearing to the other, said packing having lubricating qualities to lubricate the axle and being of a fatty nature so as to resist the flow of a lubricating medium.

1,347,389. ANTIFRICTION-BUFFER. LEE LARSEN, Tampico, Mexico. Filed Nov. 4, 1919. Serial No. 335,587. 4 Claims. (Cl. 114—220.)

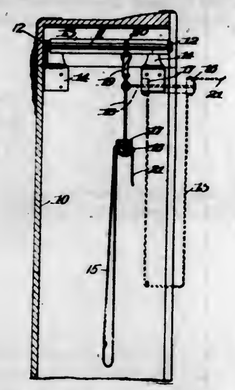


1. In an anti-friction buffer of the class described, an anti-friction element, and a shock absorbing mounting in which said element is supported with freedom of rotation and with a portion of the contact surface of said element presented beyond the face of said mounting, said mounting comprising a buffer head, a housing, said head being received entirely within said housing with freedom of movement in a direction toward and from the force of impact of an object therewith, and shock absorbing means within the housing between the latter and said buffer head.

1,347,390. SELF-CLOSING TRUNK-BAG. HENRY KENNETH LIKLY, Rochester, N. Y., assignor to Henry Likly Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 28, 1917. Serial No. 151,424. 7 Claims. (Cl. 190—13.)

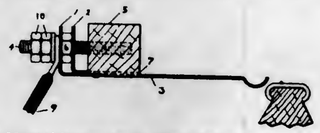
1. The combination with a support and a rod pivotally suspended therefrom, of a bag, said rod being attached adjacent its end remote from said support to one side of the mouth of the bag while the opposite side of the mouth of the bag is slidably secured to said rod above the first mentioned side when the rod is in a position normally depending from the support, the pivotal support

permitting movement of the rod above the horizontal plane through the pivotal support whereby the slidable



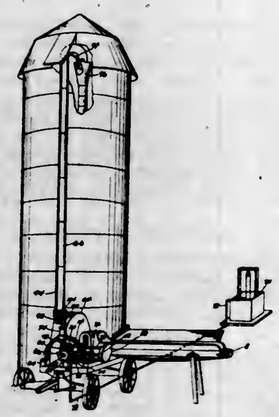
side of the mouth of the bag may automatically slide on the rod to open the bag.

1,347,391. ADJUSTABLE ELECTRIC CONTACT. FRANCIS HOWARD LORKING, Wayville, South Australia, Australia. Filed Dec. 5, 1919. Serial No. 342,634. 3 Claims. (Cl. 200—170.)



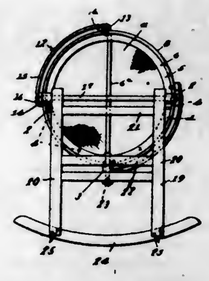
2. An adjustable contact, comprising a contact having at one end of its stem bifurcations, said bifurcations being perforated and extending at right angles to the stem, an insulating block, a threaded stem projecting from the insulating block parallel with the stem of the contact and extending through the perforations of the bifurcations of the stem, and a nut on the stud between the said bifurcations.

1,347,392. AUTOMATIC WATER-FEED FOR ENSILAGE APPARATUS. HARRY A. LYON, Kansas City, Mo., assignor of one-half to John L. Orr, Springfield, Ohio. Filed Sept. 15, 1919. Serial No. 324,022. 2 Claims. (Cl. 146—29.)



1. In an ensilage apparatus, the combination with ensilage cutting mechanism, of a conduit for conducting the material away from said cutting mechanism, a blower device for driving the material through said conduit away from said cutting mechanism, and pumping means responsive to the rate of operation of said cutting mechanism and operating to discharge a jet of water into the path of the material within said conduit at a point immediately adjacent to the blower device.

1,347,393. COMBINATION SCREEN-BED. ALFRED W. MCCREARY, Mount Pleasant, Pa. Filed Nov. 22, 1919. Serial No. 339,909. 3 Claims. (Cl. 5—56.)



1. In a bed, a semi-cylindrical body provided with semi-circular end members, upper semi-circular end members detachably secured to the end members of the body and coöperating therewith to form circular end frames, guide rings detachably secured to the body in concentric spaced relation to said end frames, and cover members slidable on said rings and adapted when raised to cover the upper portion of said body.

1,347,394. HEADLIGHT. ALTON R. MARTIN, Buffalo, N. Y. Filed June 20, 1919. Serial No. 305,454. 5 Claims. (Cl. 240—41.)

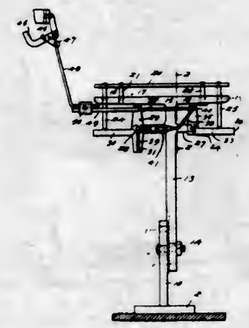


1. In a headlight, a casing having an inner projecting reflector, a source of light within the casing, and a refracting and reflecting member positioned below the light source and adapted to refract certain of the light rays downwardly onto the traction surface and reflect other light rays against the projecting reflector so as to be projected thereby outwardly of the casing.

1,347,395. STOP-MOTION FOR LOOMS. PHINEAS A. MILLIS, Lewiston, Me. Filed May 13, 1920. Serial No. 381,110. 6 Claims. (Cl. 139—52.)

3. In a device of the class described, a plurality of pivotally mounted devices movable to operative position in opposite directions, means for operating said devices

by the downward movement of the harness of a loom, a feeler bar actuating device, and means for imparting



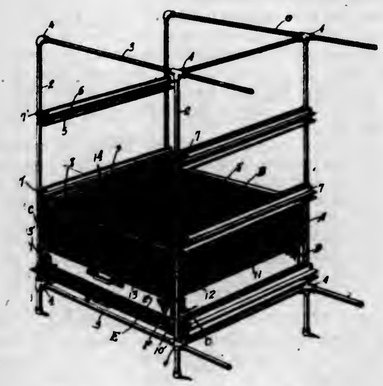
thrust thereto in one direction upon the movement of said pivoted devices in opposite directions.

1,347,396. SPLINT APPARATUS. ALVA B. MULVANY, Kansas City, Mo., assignor of one-half to Lemuel J. Husted, Kansas City, Mo. Filed Apr. 25, 1918, Serial No. 230,757. Renewed June 18, 1920. Serial No. 389,963. 7 Claims. (Cl. 128—85.)



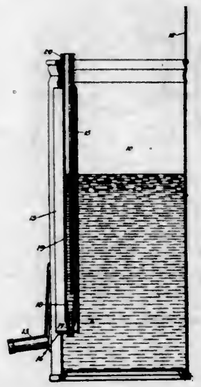
1. In splint apparatus, a hip supporting frame approximately flat, a hole in said frame to receive the projecting portion of the hips, and a leg supporting frame detachably secured to said hip supporting frame.

1,347,397. ANIMAL-CAGE. GEORGE R. J. NEWMAN, Cherrydale, Va. Filed Sept. 27, 1919. Serial No. 326,752. 6 Claims. (Cl. 119—17.)



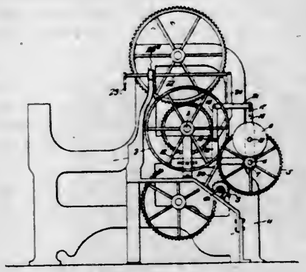
1. An animal caging device comprising a drip pan, a cage, a track for said pan and cage, said track comprising a pair of superposed angle irons in contact with each other, one forming the track for said pan and the other the track for said cage and common means for securing said tracks.

1,347,398. DOUCHE-CAN. FRANK J. O'ROURKE, New York, N. Y. Filed Feb. 6, 1919. Serial No. 275,425. 2 Claims. (Cl. 73—54.)



1. In a douche can, the combination with a vessel open at the top and having an inset wall at its front portion forming a niche over a bottom wall; of a nipple in the niche and opening through the bottom thereof into the vessel, said nipple extending upwardly and being provided with a rubber sleeve, and a diaphanous tube extending in and throughout the length of said niche and having its lower end fitting on the said rubber sleeve and its upper end extending through the upper end of the niche.

1,347,399. LOOM ATTACHMENT. JEAN B. OUELLETTE, New Bedford, Mass. Filed Mar. 14, 1919. Serial No. 282,526. 5 Claims. (Cl. 139—67.)

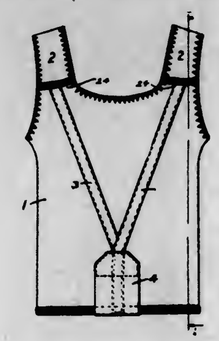


1. The combination with the crank shaft of a loom, a tappet fast thereon, a pulley also fast on said crank shaft, a motor shaft and a gear or pinion fast on the motor shaft; of a movable gear connected with the gear on the motor shaft and having a portion arranged to engage the pulley on the crank shaft, and movable means carrying the said gear and manually operable to move the same into engagement with the pulley; said movable means being subject to movement in the opposite direction by the tappet on the crank shaft to move the gear out of engagement with the pulley.

1,347,400. CHILD'S UNDERGARMENT. CHARLES E. OVENSHIRE, Minneapolis, Minn., assignor to Minneapolis Knitting Works, Minneapolis, Minn., a Corporation of Minnesota. Filed Oct. 24, 1919. Serial No. 333,048. 2 Claims. (Cl. 2—98.)

2. An undergarment comprising a body of tubular knitted fabric having spaced pairs of front and back shoulder

tabs, a pair of separate shoulder pieces each formed of plurality of thicknesses of knitted fabric, secured at their ends transversely across the respective shoulder tabs, and reinforcing tapes having their upper ends connected to

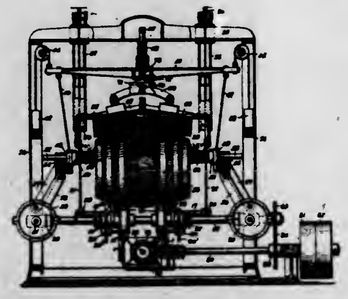


and terminating at the ends of said shoulder pieces, whereby the latter only extend over the shoulders, said tapes extending downward over the body of the garment and having their lower ends adapted for supporting a garment.

1,347,401. COMPOSITION FOR ARTIFICIALLY INDUCING MOLD ACTION IN SOILS. REDDIN W. PARRAMORE, Somerville, N. J. Filed Aug. 11, 1919. Serial No. 316,765. 7 Claims. (Cl. 71—9.)

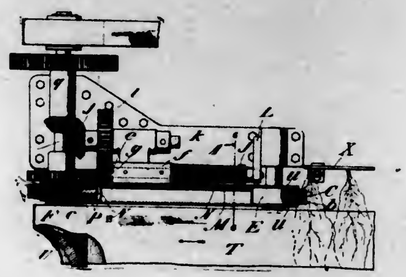
4. A mold forming and propagating composition for fertilizing purposes, comprising a vegetable meal made from dried and ground leaves and stems of green or immature plants, mixed with ground inorganic fertilizing material.

1,347,402. BARREL-WASHING MACHINE. HENRY REININGER, New Orleans, La. Filed June 20, 1918. Serial No. 240,965. 6 Claims. (Cl. 141—6.)



6. A barrel washing apparatus comprising a support for a barrel, means for rotating said support whereby the barrel will be rotated, means for supplying exteriorly a washing liquid to the barrel at each end and on the periphery, a brush engaging the periphery of said barrel, a brush engaging each end of the barrel, a beam arranged above said brushes, a link connecting the end brushes with said beam, a pair of cables connected with said beam, pulleys over which said cables pass, a pair of weights connected to said cables whereby the beam and parts connected therewith are yieldingly supported by said weights and associated parts, means connected with said end brushes for moving said end brushes toward and from the ends of said barrel, means for moving a barrel on to said support, and means for transferring the washed barrel from said support.

1,347,403. TOBACCO-STEMMING MACHINE. HANS F. RICHTER, Winston-Salem, N. C., assignor, by mesne assignments, to R. J. Reynolds Tobacco Company, Winston-Salem, N. C., a Corporation of New Jersey. Filed Apr. 27, 1916, Serial No. 93,952. Renewed May 12, 1919. Serial No. 296,535. 30 Claims. (Cl. 131—57.)



2. A tobacco stemming machine having a pair of endless traveling leaf holding belts, each belt having a yielding face consisting of wire teeth, and the co-acting runs of the belts holding and retaining the blades of the leaves during the stemming action, in combination with stem gripping rolls which pull the stems from the blades of the leaves as the latter are carried along by the conveying belts.

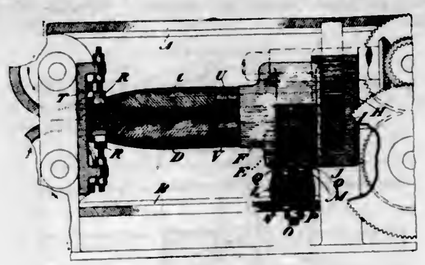
7. A tobacco stemming machine having, in combination, a leaf conveyer; stem gripping rolls, each journaled at one end only, the gap between the rolls being open at the feed end of the machine; and thrust rolls, one for each stem gripping roll, the free ends of said gripping rolls being between said thrust rolls.

20. A tobacco stemming machine having as its stemming instrumentalities a leaf conveyer consisting of a pair of endless traveling leaf holding and grasping conveyer belts and a pair of stem gripping rolls alongside and close to the active runs of said belts, said rolls gripping the butt ends of the stems and the active runs of the belts grasping the bases of the leaves close to the gripping rolls and conveying the leaves lengthwise of the rolls as the rolls pull the stems from the leaves, each belt having a yielding grasping face consisting of wire teeth and the adjacent active runs of the two belts traveling in a straight path with the ends of their teeth in close proximity, and the stem gripping rolls having rough surfaces and being tapered at the feed end of the machine with the space between the rolls gradually diminishing toward the discharge end of the machine and being alongside the meeting faces of the belts, in combination with mechanism for driving the belts and the rolls at different surfaces, the surface speed of the rolls being much greater than that of the belts.

26. A tobacco stemming machine having as its stemming instrumentalities a traveling leaf holding and grasping conveyer, and a pair of stem gripping rolls, said rolls gripping the butt ends of the stems and the conveyer yieldingly grasping the bases of the leaves close to the gripping rolls and conveying the leaves lengthwise of the rolls as the rolls pull the stems from the leaves.

1,347,404. TOBACCO-STEMMING MACHINE. HANS F. RICHTER, Winston-Salem, N. C., assignor, by mesne assignments, to R. J. Reynolds Tobacco Company, Winston-Salem, N. C., a Corporation of New Jersey. Filed July 1, 1916, Serial No. 107,119. Renewed May 12, 1919. Serial No. 296,536. 5 Claims. (Cl. 131—57.)

1. A tobacco stemming machine having, in combination, a pair of stem gripping rolls, one of said rolls having a knife and the other an opposing anvil for cutting across the stems, said knife and anvil being located at the terminus of the gripping surface of the rolls, and a traveling leaf conveyer which feeds the leaves and stems lengthwise of the rolls and brings the stems into position to be cut by the knife.



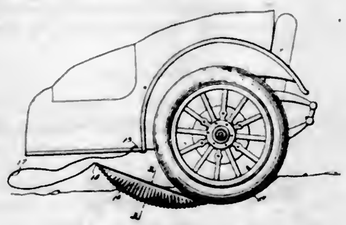
2. A tobacco stemming machine having, in combination, a pair of stem gripping rolls, one of said rolls having a knife for cutting across the stems, said knife being located at the terminus of the gripping surfaces of the rolls, and a traveling leaf conveyer which feeds the leaves and stems lengthwise of the rolls and brings the stems into position to be cut by the knife.

3. A tobacco stemming machine having, in combination, a traveling leaf conveyer, and a pair of stem gripping rolls having knurled or roughened surfaces to enhance their grip upon the stems, the knurling or roughening extending spirally throughout the gripping surfaces of the rolls for the purpose of aiding in feeding the stems lengthwise of the rolls as the leaves are advanced along the rolls by the conveyer.

4. A tobacco stemming machine having, in combination, a pair of stem gripping rolls journaled at their inner ends and having separated and spaced cylindrical ends constituting outer journals for said rolls, and fixed thrust bearings for said cylindrical ends, said bearings being open on their facing sides.

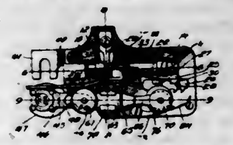
5. A tobacco stemming machine having rotating gripping rollers geared together, in combination with a movable bearing for one of said rolls, means for limiting the movement of said bearing so as to prevent disengagement of the gears, a frame in which said movable bearing is mounted, a bolt fastened to one wall of said frame, a plate movable on said bolt, pins extending through the wall of said frame and between said movable plate and said movable bearing, a second plate carried by said bolt in normally fixed position, and a stiff spring surrounding said bolt and interposed between said plates.

1,347,405. ROAD-SHOE FOR AUTOMOBILES. LOUIS S. ROBBINS and WILLIAM E. GILMORE, Klamath Falls, Oreg. Filed Jan. 3, 1920. Serial No. 349,313. 2 Claims. (Cl. 238—14.)



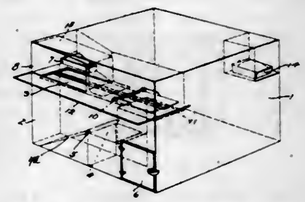
1. The herein described road shoe for traction vehicle wheels comprising an open topped trough-like member having the general form of a segment of a flat drum, the bottom surface of which longitudinally is arc shaped on a radius greater than that of the wheel.

1,347,406. SEWING-MACHINE ATTACHMENT. BENJAMIN E. ROBINSON, Tulsa, Okla. Filed Aug. 3, 1918. Serial No. 248,144. 3 Claims. (Cl. 112—115.)



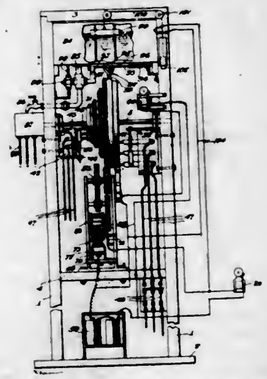
1. In a device of the class described, a base plate, a reciprocable member mounted thereon, a rack bar movable with the reciprocable member, a rotary device, a button holding device, said rotary device being engaged by the rack bar and giving to the button holding device an oscillating movement and means for actuating the reciprocable member from the needle bar of a machine, said means including a resilient device placed under compression and then automatically released.

1,347,407. EVER-SET CAGE-TRAP. HERMAN ROHLFF, Davenport, Iowa. Filed Oct. 29, 1919. Serial No. 334,119. 1 Claim. (Cl. 43—69.)



In an ever set cage trap, a confining cage and a supplemental cage, an entrance in the supplemental cage, a downwardly opening ever set trap door within said entrance closing the supplemental cage to exit when in normal closed position but operable downwardly to permit access to be had to said supplemental cage, an auxiliary closure for the opening left by said trap door when moved downwardly normally inactive operable by the movement of said trap door to close said opening to exit when said ever set trap door is operated, and a communicating opening between the confining cage and the supplemental cage normally closed by a trap door operable independently from said ever set trap door to leave an unobstructed passage between the cages.

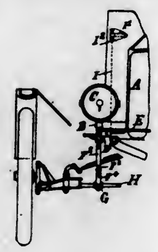
1,347,408. WATER-PUMP-CONTROLLING DEVICE. JOSHUA ROSSINI, Olyphant, Pa. Filed Jan. 7, 1919. Serial No. 270,069. 1 Claim. (Cl. 200—6.)



In a circuit controller for electrically driven pumps for pumping water from the sump in mines, a circuit

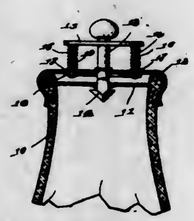
closer embodying a disk like element mounted for rotary movement, electric current conducting strips on one side of said element concentrically disposed with relation to one another, contact strips on the other side of said element concentrically arranged and electrically connected with the first named strips respectively, contact fingers normally in engagement with the first named strips, contact fingers coöperating with the respective last named strips and normally out of engagement therewith, means for holding the last named fingers out of engagement with the conducting strips during the movement of said element in one direction, means for actuating said fingers into engagement with the respective strips in the reverse movement of said element, and means controlling the movement of said element.

1,347,409. HEADLIGHT ATTACHMENT FOR VEHICLES. CECIL BLIGHT ROWE and JAMES LAVERCOMBE, Castlemaine, Victoria, Australia. Filed Dec. 3, 1917. Serial No. 205,168. 2 Claims. (Cl. 240—62.)



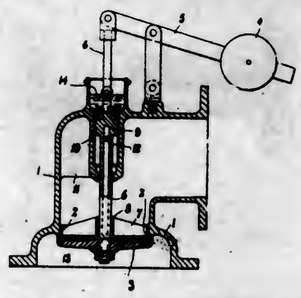
1. In dirigible headlights for vehicles that embody steering mechanism, rotatable headlight supporting socket members connected together to rotate or turn in unison, a member-rotating connection between the steering mechanism and one of said socket members embodying a relatively freely movable spindle received in said socket member, a bolt projecting through said socket member, means yieldingly urging said bolt into engagement with said spindle to releasably lock said freely movable spindle to rotation with said socket member, and a manually controlled device operative from the driver's seat for withdrawing said bolt from engagement with said spindle against the action of said yielding urging means, said manually controlled device adapted to be secured with said bolt in either operative or inoperative position.

1,347,410. CAP-REMOVER. CORNELIUS J. RYAN, Meriden, Conn. Filed Dec. 6, 1919. Serial No. 342,888. 6 Claims. (Cl. 215—10.)



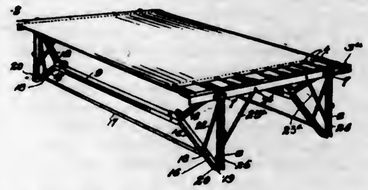
1. A device of the class described comprising a cap, designed to fit the mouth of the milk bottle, means supported by the cap for engaging and removing the disk from the bottle, and means carried by the cap for separating the disk from the aforementioned means as described.

1,347,411. VALVE DEVICE. ARTHUR EDWIN LEIGH SCANES, Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited, a Company of Great Britain. Filed Nov. 25, 1918. Serial No. 264,030. 3 Claims. (Cl. 251—147.)



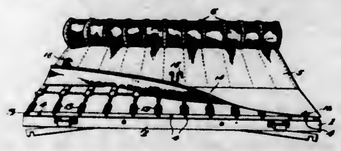
1. In the suction pipe of an air or gas exhausting device, the combination with a non-return valve adapted to be closed by an excess of pressure on the suction or pump side thereof, means adapted to positively close said valve, a cylinder, a piston coöperating therewith, the space in the cylinder on one side of the piston being in communication with the suction pipe on the suction or pump side of the valve, and the space in the cylinder on the other side of said piston being in communication with the atmosphere or a source of pressure above atmospheric, said piston being so connected with the valve as to assist in the opening thereof when the pressure on the suction side of said piston is reduced below that on the other side of said piston.

1,347,412. AUTO-PORCH BED. PETER C. SCHAEFER, HORACE D. HULSE, and GEORGE M. LIVINGSTONE, Denver, Colo., assignors to said Peter C. Schaefer. Filed Jan. 20, 1920. Serial No. 352,847. 6 Claims. (Cl. 5—5.)



1. In an apparatus of the class described, the combination of a pair of side structures, each said structure comprising a rail, of primary and auxiliary arms pivotally connected to the ends of said rail, standards pivotally connected to the auxiliary arms, intermediate braces connected to the standards and to the auxiliary arms, an auxiliary side rail connected to the auxiliary arms, and a top structure detachably supported upon the standards and the primary arms.

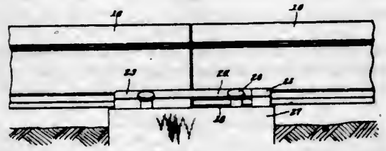
1,347,413. AUTO-PORCH BED. PETER C. SCHAEFER, Denver, Colo. Filed Feb. 26, 1920. Serial No. 361,594. 4 Claims. (Cl. 5—40.)



1. In an apparatus of the class described, the combination of a body having strips attached longitudinally

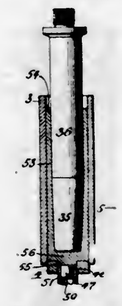
thereto, said body provided at one end with a pocket, a bar in said pocket, said body provided at its other end with said strips extending beyond the end and formed into loops, metal loops in said first-mentioned loops, chains attached to said metal loops, and springs detachably attached to the chains.

1,347,414. RAIL-JOINT. JOHN SEDLAK, Fairchance, Pa. Filed Mar. 14, 1919. Serial No. 282,535. 1 Claim. (Cl. 238—205.)



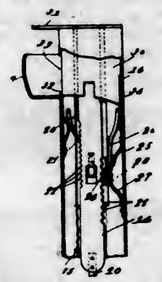
In combination with the meeting ends of two railway rails having their base flanges on one side of their webs provided with spaced slots, and a tie on which the rail ends rest; of a joint plate for each of the rails, including a base member which is arranged upon the under face of the respective rails and which is of a width approximately equaling one half the width of the base flange of the rail, said body plate having on its inner end a lateral extension that terminates in an overlying flange that rests on the base flange of the rail, said plate having its opposite edge also formed with an overlying flange to engage with the base flange of the rail, said flange having a depending lug to be received in the slot of the base flange of the rail and being further provided with an extension providing a tongue that has on its inner face a downwardly extending lug designed to be received in the slot of the coacting rail when the rail ends are assembled, and spikes entering the tie and having their heads contacting with the tongues, and the overlying flanges on which said tongues are formed.

1,347,415. METHOD AND APPARATUS FOR MAKING SHELL-FORGINGS. FRANK A. SHERMAN and JOSEPH M. HALL, Hamilton, Ontario, Canada. Filed Aug. 2, 1918. Serial No. 247,957. 6 Claims. (Cl. 207—6.)



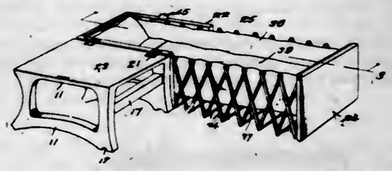
1. An apparatus for making shell forgings comprising a die pot having a tubular wall and a bottom arranged at one end of said wall, said wall being movable lengthwise relatively to said bottom, a mandrel adapted to enter the opposite end of said tubular wall, a base having a central body which carries said bottom and is engaged by the adjacent end of said wall and tubular guide arranged on said body and engaging slidingly with the outer side of said wall, a packing interposed between said guide and wall, and a deflecting flange arranged on the outer side of said wall and overhanging the end of said guide.

1,347,416. DISPENSING-MACHINE. WILLIAM W. STEWART, Leavenworth, Kans. Filed Oct. 14, 1919. Serial No. 330,648. 2 Claims. (Cl. 194—82.)



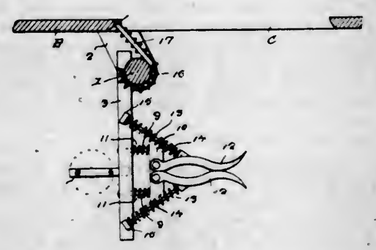
1. A device of the class described comprising a case, a container therein, means for delivering the contents of the container to the outside of the case, a plunger member for actuating said delivering means, said plunger having two sets of rack teeth thereon, the teeth of which are oppositely arranged, a pair of dogs engaging said teeth, a third dog for holding one of the dogs normally out of engagement with the teeth, means for guiding a coin onto said dogs to disengage one dog of the pair from the rack and the the third dog from the other dog to permit the plunger to be raised while preventing it from being lowered and means carried by the plunger for forcing the coin away from the dogs to permit the third dog to again engage the second dog to permit the plunger to be lowered.

1,347,417. COMBINATION FURNITURE. ERNEST EWALD STURK, Tuxedo Park, N. Y. Filed Apr. 18, 1919. Serial No. 291,001. 2 Claims. (Cl. 155—45.)



1. A chair comprising a hollow base, a seat hingedly secured to said base, and adapted to fold out of its operative position to form a table, a removable back for said seat, arms carried by the seat and adapted to act as legs when the same is in its operative position as a table, and an extensible bed mounted in said hollow base.

1,347,418. MAIL CATCHING AND DELIVERING APPARATUS. ADOLPH SUSSLIN, New Orleans, La. Filed Oct. 18, 1919. Serial No. 331,602. 2 Claims. (Cl. 258—11.)



1. A mail bag catching and delivering apparatus comprising a shaft, a pair of arms extending therefrom, a

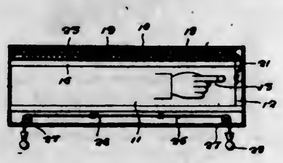
third arm extending therefrom swingingly mounted clips connected to the pair of arms and mail bag catching means supported by the other arm consisting of a pair of jaws, a bar supporting the jaws for pivotal movement toward and away from each other, springs forcing the jaws toward each other, and other springs resiliently opposing movement of the bar.

1,347,419. RECEPTACLE-COVER. AXEL SWENSON, Lyndhurst, N. J. Filed Oct. 8, 1919. Serial No. 329,276. 1 Claim. (Cl. 65—60.)



The combination with a bowl having an interiorly disposed bead defining its open side, a cover provided throughout a portion of its marginal edge with an integral depending flange, a depending flange secured to the under side of said cover and extending parallel to the first-mentioned flange, and spaced therefrom, and a resilient tongue formed by cutting a portion of said last-mentioned flange, said tongue being bent out of alinement with said flange to a position where it will engage beneath the bead of the open side of the bowl when the edge of the open side of the bowl is placed between said flanges.

1,347,420. DIRECTION-SIGNAL. JOSEPH SETARI and LOUIS KOVÁCS, Bellaire, Ohio. Filed Feb. 28, 1920. Serial No. 362,073. 2 Claims. (Cl. 116—50.)



1. A direction signal comprising an elongated casing having a slot at each end, said slots being staggered, a pair of slides arranged one behind the other within the casing, means for normally holding the slides positioned within the casing, upper and lower channel shaped guide members for each slide, the lowermost member of each pair having a longitudinal slot, a pin projecting from the lower edge of each slide and through said slot, flexible elements having their adjacent ends secured to said pins, the bottom of the casing having spaced openings through which the flexible elements are threaded, whereby said slides may be singly projected beyond the ends of the casing, each slide having a hand or indicator thereon.

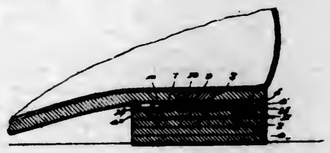
1,347,421. ELECTRICAL INDICATOR. FRED W. TEMPLE, Kalamazoo, Mich. Filed Sept. 25, 1917. Serial No. 193,093. 8 Claims. (Cl. 177—339.)

8. The combination with a casing having an apertured front end, of a translucent number plate mounted in said aperture, a block of insulation mounted upon said casing, a door bell circuit comprising an electric door bell and a source of current, an electric light mounted upon said insulation block and normally in series with said door bell, and means for short circuiting said lamp, comprising



a spring contact mounted on said block and means for actuating said spring contact comprising a push button extending through an aperture in said casing.

1,347,422. SHOE-HEEL. ALBERT VANBLOM, Rockford, Ill. Filed Feb. 12, 1919. Serial No. 276,517. 1 Claim. (Cl. 36—42.)



The combination with a shoe, of a stationary riser secured thereto and provided with a recess, and having holes in its lower part communicating with said recess, a rotatable plate pivoted in said recess, projections on the edges of said plate, a heel part, slotted lugs carried thereby and extending through the holes into the recess and a spring carried by the stationary riser and engaging a part of the plate for holding the projections thereon in engagement with the slots in said lugs.

1,347,423. FLASH-LIGHT. JOSEPH VINCE, Brooklyn, N. Y. Filed Sept. 18, 1919. Serial No. 324,431. 24 Claims. (Cl. 240—8.5.)



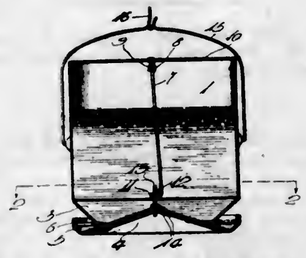
19. An attachment for the battery of a flashlight to be inserted in and removable from the flashlight casing with the insertion and the removal of the battery, said attachment including a conductor element having a length to extend along the battery at the exterior and having means to detachably secure it to the battery, said element being adapted to complete an electric circuit with the battery and lamp.

1,347,424. PROPELLING, TRACTIVE, AND SUPPORTING APPARATUS. TRAJAN VUIA, Garches, France. Filed Mar. 4, 1919. Serial No. 280,678. 2 Claims. (Cl. 170—165.)



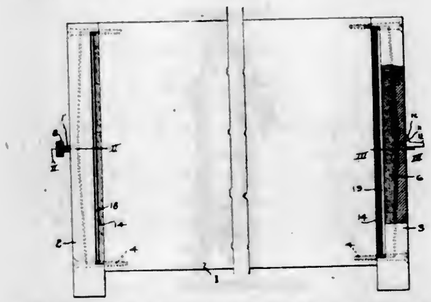
1. In propelling, tractive and supporting apparatus such as screw propellers or inclined planes and the like operating in air and water, the combination upon one shaft of two propellers or inclined planes having different pitches such that the incidence or pitch of the propeller or inclined plane on the exit or exhaust side is 75% greater than the incidence or pitch of the propeller on the suction or admission side.

1,347,425. DRINKING-FOUNTAIN AND FEEDER FOR POULTRY. SOLOMON B. WENGER, South English, Iowa. Filed May 17, 1920. Serial No. 381,981. 2 Claims. (Cl. 119—53.)



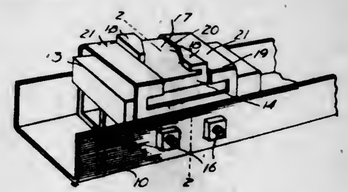
1. A receptacle of the character described comprising an open-ended hopper having its walls converging toward the open end of the receptacle, a rod connected with the head of the hopper for swinging movement and having its free end portion bent to provide a foot having a threaded opening formed therein, a tray having a conical central portion for extending into the open end of the hopper and having its peripheral portion bent to provide a trough extending about the walls of the hopper, a threaded stem in the center of the tray extending into the hopper and through the threaded opening in the foot of the hanger-rod, and means carried by the hopper for supporting the same.

1,347,426. DRAFTING-BOARD. STANLEY E. WILLIAMS, San Francisco, Calif. Filed Aug. 27, 1917. Serial No. 188,354. 5 Claims. (Cl. 45—131.)



1. A drawing board; end strips fixed to the ends of said board by dowels and having slots between said dowels; paper clamping jaws movable in said strips across said slots and engaging said dowels, whereby the strips are guided in their movement; and adjusting means in said strips engaging said jaws.

1,347,427. RAILROAD-TIE. WILLIAM T. WILSON, Bush, Ill. Filed Oct. 28, 1919. Serial No. 334,039. 3 Claims. (Cl. 238—269.)



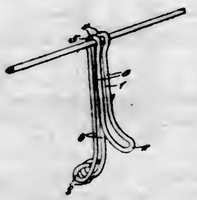
1. A metallic railroad tie comprising a channel-shaped base member, a metallic block fitted in said member adjacent each end, a wooden block disposed upon the metal block, a metallic plate resting upon the wooden block, means for holding all of said parts fixed relatively, and lugs carried by said plate for engagement with the base of the rail.

1,347,428. COOKING UTENSIL. ARNOLD F. WITTEKIND, Trenton, N. J. Filed Apr. 25, 1919. Serial No. 292,550. 1 Claim. (Cl. 53—8.)



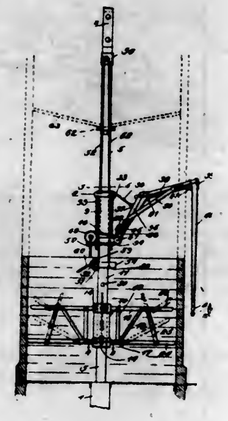
A cooking utensil of the character described including, inner and outer receptacles, longitudinally curved lugs attached to the inner side of the inner receptacle and extending upwardly and outwardly and engaging the top of the outer receptacle, and a closure having its peripheral portion engaging the top of said outer receptacle and provided with struck up portions engaging over said lugs, said struck up portions providing recesses in which the lugs are received.

1,347,429. CLOTHESPIN. WILLIAM H. WITT, Petersburg, Va., assignor of one-half to Richard Alexander Titmus, Petersburg, Va. Filed Mar. 22, 1920. Serial No. 367,794. 3 Claims. (Cl. 24—139.)



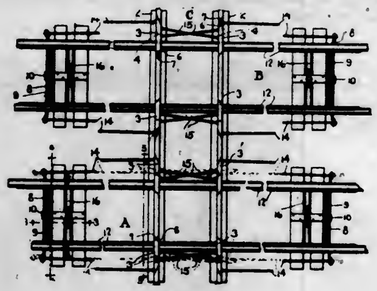
1. As an article of manufacture, an improved clothes pin constructed from a single length of wire bent upon itself substantially midway its ends to form a clamping loop, the sides of said loop slightly inclined toward each other and being slightly inclined outwardly and laterally at the opposite ends, said outwardly and laterally inclined parts terminating in additional loops constituting clamping jaws, said additional loops being positioned at right angles to the first loop and constituting jaws, the second loops terminating in additional jaws at right angles to the sides of the first clamping loop jaw and being inclined slightly away from each other and the greater part of their length, said additional jaws terminating in eyes, either pair of said jaws constituting means to engage the clothes on the line.

1,347,430. COMBINED SCAFFOLD AND DERRICK. CARL C. YOUNG, Rushville, Ill. Filed Mar. 26, 1919. Serial No. 285,330. 4 Claims. (Cl. 304—12.)



1. In an apparatus for the purpose set forth, the combination of a mast, a carrier mounted thereon for vertical movement and provided with upper and lower annular series of sockets, the upper sockets having overhanging lips, and scaffold supports provided at their inner ends with upper and lower tongues to engage in said sockets and upstanding hooks on the upper tongues to engage behind said overhanging lips.

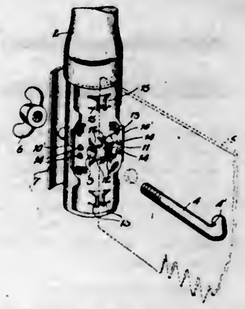
1,347,431. RAILROAD-CROSSING. CHARLES ALEXANDER ZOBEL, Roanoke, Ala. Filed Jan. 10, 1919, Serial No. 270,534. Renewed Dec. 13, 1919. Serial No. 344,759. 3 Claims. (Cl. 246—376.)



1. A railroad crossing having one track in a higher plane than the other track, said higher track having cut away portions leaving spaces for receiving the lower track, pivoted bridges for said spaces having inclined ends engaging the inclined ends of the rails of the higher track and each having a recess on its under face for receiving the tread of the rail of the lower track and means for operating said bridges by a train on the lower track.

1,347,432. SAW-HANDLE. PERCY C. ABBOTT, Dumbarton, Va., assignor to Hardware Specialty Co., Inc., Richmond, Va., a Corporation of Virginia. Filed Sept. 30, 1918. Serial No. 256,296. 4 Claims. (Cl. 145—109.)

1. A sheet metal butt plate for cross cut saw handles having seating means for the butt end of a saw comprising pairs of struck up tongues, said pairs being spaced apart to provide for the admission of the saw butt longi-



tudinally of the plate and said tongues being located and the ends of the tongues of each pair being spaced so as to admit the passage of a clamp bolt.

1,347,433. TOY FIREARM. CHARLES L. ALLEN, Pittsburgh, Pa. Filed Feb. 4, 1920. Serial No. 356,169. 3 Claims. (Cl. 124—12.)



1. In a toy firearm, the combination with a firearm barrel having a projectile receiving bore and provided with a projectile receiving chamber above the bore, so that the projectile can enter the bore, spring tensioned means mounted in the barrel for discharging the projectile and a leaf spring having an enlargement protruding into the projectile receiving chamber above the bore, to retain the projectile in position in the bore.

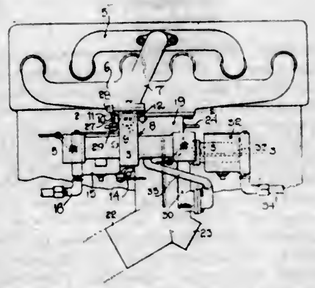
1,347,434. AIR-PUMP. SETH S. AVERY, Pleasant Lake, Ind. Filed Feb. 18, 1919. Serial No. 277,807. 1 Claim. (Cl. 230—27.)



A pump comprising a base, an internal screw-threaded flange projecting from the top face of said base, a pump cylinder having threaded engagement with said flange and having its opposite end open, a hollow pump piston movable in the cylinder, a valve mounted in the piston

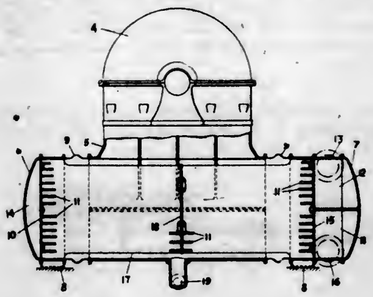
head, an intake opening in the other end of the piston, a collar carried by the open end of the pump cylinder and provided with an outlet passage, said collar having screw-threaded engagement with the first-mentioned collar, and a washer interposed between said collar and the end of the cylinder, said washer forming an air-tight joint between the cylinder and the hollow piston in its movement within the cylinder, substantially as described.

1,347,435. VAPORIZER. JAMIE H. BATCHELOR, Savannah, Ga., assignor to Carl Espy, Savannah, Ga. Filed Oct. 24, 1917. Serial No. 198,296. 6 Claims. (Cl. 123—122.)



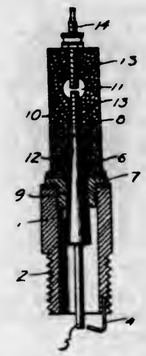
1. The combination with a fuel supply connection to the intake manifold of an internal combustion engine and throttle valve, of a casting secured to the exhaust manifold of the engine and having spaced exhaust receiving passages, the wall of one of said passages being provided with an exterior jacket, means for supplying a mixture of fuel and air to the upper end of said jacket, a connection between the lower end of the jacket and the supply connection on the intake manifold, valves to control the passage of the exhaust gases into said passages and to simultaneously open one of said passages when the other is closed, and means for operating said valves in unison with the throttle valve.

1,347,436. CONDENSER. KARL BAUMANN, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited, a Company of Great Britain. Original application filed Jan. 31, 1917, Serial No. 145,706. Divided and this application filed Oct. 2, 1918. Serial No. 256,577. 9 Claims. (Cl. 60—95.)



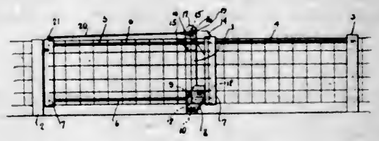
1. A steam condenser for turbines comprising a horizontal shell adapted to be supported at its central portion by the turbine and at its end portions independently of the turbine and provided with means whereby axial displacement of its central portion with respect to the end portions is permitted.

1,347,437. SPARK-PLUG. FLETCHER W. BEALL, Jr., McCalla, Ala. Filed Nov. 25, 1919. Serial No. 340,524. 1 Claim. (Cl. 123—169.)



A spark plug comprising a shell equipped with an electrode, a compression nut, a main electrode having an outwardly tapered portion wrapped with sheet mica and wedged in the compression nut and also having a threaded shank outwardly beyond said tapered portion, a post of fiber opposed at its inner end to the compression nut and having a taper bore receiving the tapered portion of the main electrode and also having a threaded bore receiving and engaging the threaded shank of the main electrode and further having a diametrical opening, and a terminal adjustable in the upper portion of the post and extending into the opening thereof and arranged within said opening in spaced relation to the outer end of the main electrode.

1,347,438. GATE. DAVID E. BENTZEL, York, Pa. Filed Mar. 26, 1920. Serial No. 368,976. 3 Claims. (Cl. 39—48.)



1. In combination with the gate post and the post of a fence, a rod connecting one of the gate posts with said fence post, a gate comprising cross bars and upright members, a casing secured to the rear part of the gate, a casing secured to the gate post, a pair of diagonally arranged rollers in each casing, one pair engaging the rod and the other pair engaging a bar of the gate and means for adjusting the rollers in relation to the bar and rod.

1,347,439. TIRE-CASING SEAL. GEORGE H. BUDD, Salt Lake City, Utah. Filed May 23, 1918, Serial No. 236,150. Renewed Dec. 13, 1919. Serial No. 344,760. 2 Claims. (Cl. 152—13.)

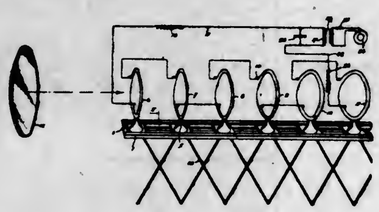
1. In combination with a channeled wheel rim, a tire casing on said rim, and means for inflating said casing; an air seal for said casing comprising a one piece elastic ring of soft rubber located between the beads of the casing and of sufficient elasticity to stretch over the rim flange when applying and removing, said ring having a relatively narrow rim engaging side, a pair of opposed edges diverging outwardly from said rim engaging side, and a peripheral side curved transversely on substantially

the same curvature as the cross sectional contour of the casing, said edges and said peripheral side converging



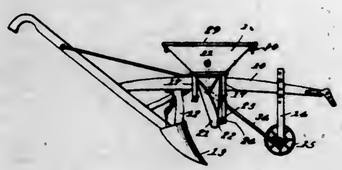
gradually outward and forming thin feather-edged flaps contacting snugly with the side walls of the casing and yieldable freely therewith.

1,347,440. APPARATUS FOR PROPAGATING AND INTENSIFYING ELECTRICAL OSCILLATIONS. JOHN J. CALLAGHAN, Livermore, Calif., assignor to Henry J. Callaghan, Livermore, Calif. Filed Nov. 11, 1918. Serial No. 261,995. 7 Claims. (Cl. 250—11.)



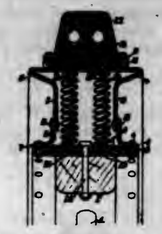
1. A wireless apparatus comprising a plurality of identical coils arranged with their axes in line, means for exciting said coils, and a reflecting surface arranged with its axis coincident with the axis of said coils.

1,347,441. PLANTER. MARION N. CARLISLE, Appleby, Tex. Filed Sept. 20, 1919. Serial No. 325,054. 2 Claims. (Cl. 111—71.)



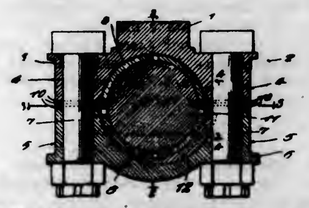
2. A planter having a beam carrying a stop or standard for a covering shovel, a seed box provided with an outlet, an adjustable slide for regulating the opening of the outlet, an agitator having a rock shaft mounted in the seed box, a ground or pilot wheel operatively connected with said rock shaft for imparting agitating movement thereto, a seed chute in communication at its upper end with said seed box outlet, and movable at its lower end toward and from the vertical plane of the beam, a bracket carried by the beam for supporting the outlet end of the seed chute, and means for adjustably connecting the outlet end of the seed chute to said bracket to regulate the distance between said outlet and the vertical plane of the plow beam.

1,347,442. RESILIENT WHEEL. THOMAS T. CHALONER, New York, N. Y. Filed Sept. 27, 1917, Serial No. 193,574. Renewed Feb. 4, 1920. Serial No. 356,121. 3 Claims. (Cl. 152—8.)



3. A resilient tire divided into sections comprising a plate divided into a plurality of independent sections, a band fitted against the outer face of said plate; said band being divided into the same number of sections as said plate, securing means extending through said plate and through said band for clamping the band in position, said band having a pair of spaced outstanding flanges, a casing divided into the same number of sections as said plate rigidly secured to said outstanding flanges, said casing extending outwardly and formed with a pair of resilient sections substantially V-shaped in cross section, said sections being joined by a rim, means on said rim for securing a tire thereto, a plurality of springs arranged in said casing for resiliently holding said casing in a predetermined position, and means for removably securing each of said sections to the felly of a wheel.

1,347,443. AUTOMATICALLY-ADJUSTABLE BEARING. THOMAS CHRISTIANI, Sarles, N. D. Filed Apr. 3, 1919. Serial No. 287,208. 4 Claims. (Cl. 64—55.)



3. A bearing including two halves having a shaft opening there between and bolt means connecting the halves, two bushing halves in said shaft opening, circumferential flanges extending outwardly from the sides of the bushing halves, wear take-up means including a curved wedge member disposed between one of the bushing halves and the adjacent bearing half and between said flanges and spring means for moving the wedge circumferentially to take up wear.

1,347,444. PNEUMATIC MOTOR. HANS R. CHRISTIANSEN, Brooklyn, N. Y. Filed Sept. 21, 1917. Serial No. 192,523. 5 Claims. (Cl. 121—164.)



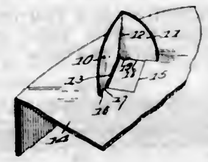
1. A compressed air motor comprising a cylinder, a reciprocatory piston working therein, an automatic air controlling slide valve, a piston rod extending from said piston through a head of the cylinder, means including tappets for varying the stroke of the piston and means whereby said tappets may be simultaneously adjusted to vary the stroke during the operation of the motor.

1,347,445. PERFORATING-MACHINE FOR BANK-DRAFTS AND OTHER DOCUMENTS. GAETANO ARTURO CROCCO, Rome, Italy. Filed Apr. 15, 1920. Serial No. 374,209. 2 Claims. (Cl. 101—19.)



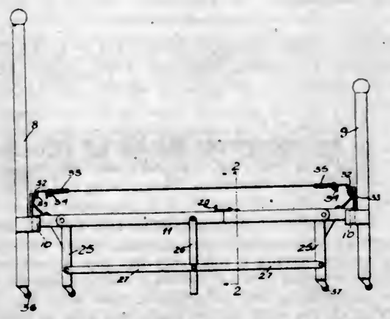
1. In a perforating machine, a drum for operating the perforating pins having peripheral projections and recesses, said drum being formed of a plurality of thin disks.

1,347,446. RECEPTACLE-CLOSURE. CLARENCE E. DOYLE, Washington, D. C., assignor to Hutchinson Egg-Case Filler Company, Hutchinson, Kans. Filed Feb. 4, 1920. Serial No. 356,273. 8 Claims. (Cl. 221—11.)



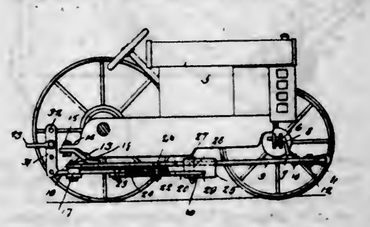
1. A convertible closure and spout for receptacles having angularly disposed cover and guide wings, of which the former is adapted to be hingedly seated at one edge on a receptacle wall adjacent to an opening therein, and wall penetrating extensions on the seated edge of the cover wing for contact with the inner surface of the penetrated wall respectively in the closed and open positions of the cover wing.

1,347,447. FOLDING ATTACHMENT FOR BEDS. FRANK EBERL, New York, N. Y. Filed Oct. 29, 1917. Serial No. 198,965. 2 Claims. (Cl. 5—9.)



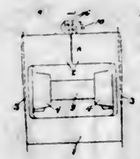
1. A foldable spring-bed unit for interposition between and engagement, of itself, with head and foot sections, comprising corner members having vertical tongues at their outer ends to seat in sockets of head and foot sections, a vertically-foldable leg-supported frame portion arranged between and hinged to the corner members at the ends of the unit, upright longitudinal brackets fixed with respect to and rising from the corner members, and a mattress-supporting spring interposed between and connected to the upper portions of said brackets; the said brackets being arranged in superimposed relation to the corner members and extending longitudinally above the tongues to bear on the socket members of head and foot sections.

1,347,448. DRAFT-RIGGING FOR TRACTORS. DANIEL W. EVANS, Scranton, Pa. Filed July 26, 1919. Serial No. 313,489. 10 Claims. (Cl. 213—67.)



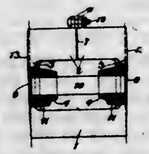
1. In a draft rigging for tractors, a draft beam, a bracket connecting the draft beam at one end to an axle, means for connecting the opposite end of the draft beam to a tractor frame, said draft beam having apertures therein, a block secured on the draft beam, a draw bar pivotally connected to the block, a coupling member on one end of the draft beam, and a coupling member on the end of the draw bar.

1,347,449. PROCESS OF MAKING PISTONS. JOHN FLAMMANG, St. Louis, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed Feb. 27, 1918. Serial No. 219,363. 7 Claims. (Cl. 29—148.)



1. The process of making a piston which consists in dividing the upper portion of the piston body into segmental sections; drawing the segmental sections toward each other; and forming the exterior periphery of the segmental sections in cylindrical form while the said sections are held drawn together.

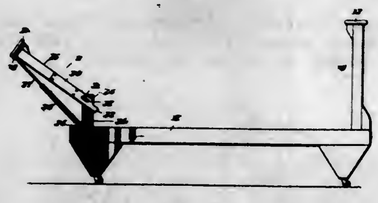
1,347,450. PROCESS OF MAKING PISTONS. JOHN FLAMMANG, St. Louis, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed May 23, 1918. Serial No. 236,189. 9 Claims. (Cl. 29—148.)



1. The process of making a piston which consists in forming a piston body with an upper ring and a lower ring which are integrally united; splitting the upper

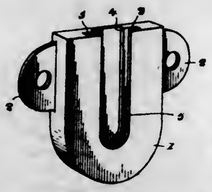
ring to form segmental sections; expanding the upper portion of the piston body; treating the piston body to set the material in its expanded shape; compressing the expanded portion of the piston body; and finishing the same while under compression.

1,347,451. COMBINED CRADLE AND BED. MICHAEL F. FLIS, Mohawk, Ontario, Canada. Filed Apr. 29, 1918. Serial No. 231,446. 1 Claim. (Cl. 5—56.)



In a bedstead, a head board, comprising a fixed section and a movable section which normally rests directly on the fixed section, slotted plates on the ends of the movable section disposed in contacting engagement with the ends of the fixed section, said plates having their outer ends reduced and formed with tongues, pins on the fixed section passing through the slots of the plates, other pins on the fixed section designed to be engaged by the tongues of the plates for holding the movable section in vertical alinement with the fixed section, telescopic members, one hingedly connected to the fixed section and the other hingedly connected to the movable section, and said telescopic members having a contacting engagement with each other for limiting the outward swinging of the movable section with respect to the fixed section when the tongues of the plates have been brought out of engagement with the last mentioned pins on the fixed section.

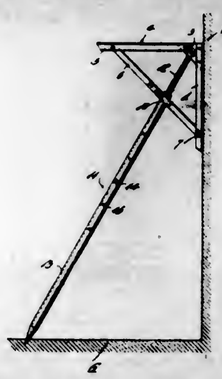
1,347,452. CHECK-POCKET. FRANK C. FRANZEN, Buxton, Iowa. Filed Dec. 7, 1917. Serial No. 206,111. 1 Claim. (Cl. 40—10.)



A check receiving pocket for miners' cars, comprising a body, a lug on each side thereof having an aperture therein, said body having a slot in its front part extending from the upper edge to a point an appreciable distance from the lower edge and a groove formed in the walls of the slot intermediate their ends, the lower walls of the slot and groove being rounded and said body having an opening in its lower end which connects with the bottom of the groove.

1,347,453. FOLDING SCAFFOLD-BRACKET. KARL GARNER, St. Marys, Pa. Filed Sept. 8, 1919. Serial No. 322,334. 2 Claims. (Cl. 304—11.)

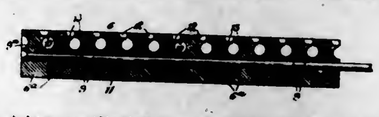
1. A device of the class described comprising a plate, an upright bar secured at its upper end to said plate, a horizontal supporting arm pivoted at one end to said plate, a diagonal brace pivoted at one end to the other end of said arm, means for detachably connecting the lower end of said brace to the lower end of said bar, a diagonal prop pivoted at its upper end to said plate and crossing said brace at the intermediate portion of the same, and a hook-shaped keeper secured to the intermediate portion of said brace and adapted to be hooked around said prop.



1,347,454. WRITING AND ENGROSSING INK. EMIL GOODWIATH, St. Louis, Mo. Filed Jan. 12, 1920. Serial No. 350,959. 2 Claims. (Cl. 134—37.)

1. A soluble ink composition consisting of soluble blue, a mild alkali and a dye assisting agent.

1,347,455. COMPRESSION-BOX FOR OIL-PRESSES. MICHAEL B. GREEN, Memphis, Tenn. Filed Oct. 17, 1919. Serial No. 331,342. 5 Claims. (Cl. 100—54.)



5. A bar constituting a longitudinal side bar in the construction of compression boxes for oil presses, having grooves in the side faces to form escape passages with the grooved part of the outer face of the bar closed at the ends and the groove on the inner face of the bar open at the ends and with the top of the bar overhanging the grooves, said overhanging portions having lateral slits extending from the top surface of the bar into the grooves with each groove entered by a plurality of said slits, and lateral recesses formed in the under surfaces of the overhangs with each recess extending on opposite sides of a corresponding slit in communication therewith throughout the length of the recess, whereby to provide enlarged drainage area between a slit and the groove into which it empties.

1,347,456. COMPRESSION-BOX FOR OIL-PRESSES. MICHAEL B. GREEN, Memphis, Tenn. Filed Dec. 3, 1919. Serial No. 342,113. 7 Claims. (Cl. 100—54.)



3. An element of a compression box for oil presses, comprising an elongated bar of substantially rectangular cross section having a relatively flat top, a longitudinal centrally-disposed web on its lower surface, spaced cross webs intersecting the longitudinal web with the lower edges of all the webs in one plane, the side walls of the longitudinal web between the cross webs being formed with series of spaced grooves rising along the sides of the central web and merging into the under surface of the top portion to the outer edges of said top portion and

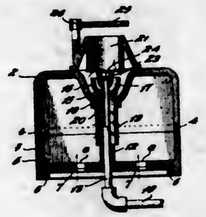
the lower portion of the central web having transverse openings therethrough constituting passages, and the grooves in the under surface of the upper portion of the bar having slits extending through the top surface of the bar and from the outer edge of the bar toward the central portion thereof, said slits being arranged in groups on opposite sides of the bar with the slits on one side of the bar alternating with those on the other side thereof, and all the groups of slits on the same side of the bar being closer to one cross web than to the neighboring cross web between which the group of slits is located.

1,347,457. FEEDING POLYPHASE-CURRENT CIRCUITS WITH MONOPHASE CURRENT. HERBERT GUTZWILLER, Schönenwerd, Switzerland, assignor of one-half to Theophil Buess, Liestal, Switzerland. Filed Aug. 5, 1918. Serial No. 248,445. 2 Claims. (Cl. 172—238.)



1. The combination with a monophase current feeding circuit, of a receiving circuit having n-phase conductors, where n is odd and a current divider interconnecting said circuits and arranged so as to separate the successive positive and negative half waves of the primary monophase current and to alternately distribute the same over the n-phase conductors of the receiving circuit, so that in each of the n-phase conductors thereof there flows a partial alternate current which in the same time has n times less half waves than the primary monophase current, substantially as described.

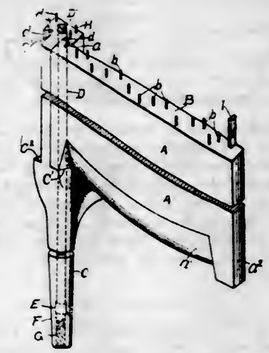
1,347,458. OIL-BURNER. CHARLES E. GREEN, St. Augustine, Fla. Filed June 24, 1919. Serial No. 306,504. 8 Claims. (Cl. 158—91.)



1. An oil burner comprising an air chamber having two sections, one forming the top and one forming the bottom, the lower section having a perforated bottom; an air regulator adjustably mounted on the bottom to control the admission of air into the chamber through the perforated bottom; an oil feed pipe extending up into the chamber; a basin with an open bottom surrounding the upper end of the feed pipe; a baffle mounted on the upper end of the feed pipe and spaced from the inner surface of the basin; and a combustion or fire box above the upper end of the feed pipe; and an adapter adjustable to the discharge end of the feed pipe to adapt the burner to the combustion of a given grade of oil.

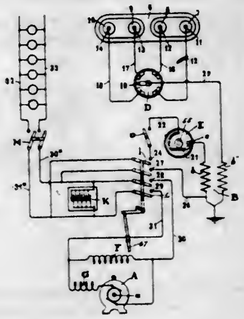
1,347,459. PROCESS OF INSTALLING WATER-FRONT WALLS. EDGAR K. HAND, Chicago, Ill., assignor of one-third to Charles Turner Brown, Chicago, Ill. Filed Sept. 2, 1919. Serial No. 321,164. 1 Claim. (Cl. 61—39.)

The process of grouting wells between bodies of concrete, said wells having water therein, and making said grouting integral with said bodies, which comprises the substantial sealing of the walls of said wells, the expulsion, by means of air under pressure, of substantially all of the water in said wells, the conveying to and discharging thereinto and near the lower ends of said wells,



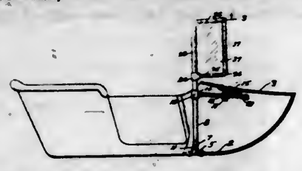
a mixture of air and dehydrated grouting, under pressure sufficient to direct said grouting to said lower ends, subsequently hydrating said grouting, and continuously directing a mixture of air and dehydrated grouting on said continuously advancing grouting in said wells.

1,347,460. MEANS FOR SUPPLYING LIGHTING AND IGNITION CURRENT FOR AUTOMOTIVE VEHICLES. JOHN ALLEN HEANY, Flint, Mich., assignor, by mesne assignments, to Industrial Research Corporation, a Corporation of Delaware. Filed July 27, 1910. Serial No. 574,030. 17 Claims. (Cl. 290—41.)



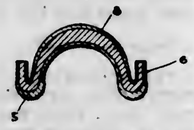
13. In an automotive vehicle, the combination with a variable speed internal combustion engine, of an electrical system comprising a storage battery, translating devices including an ignition system for said engine, including a primary circuit, a secondary circuit, a make and break mechanism for the primary circuit including contacts adapted to be opened and closed, means for effecting an opening of said contacts, means for maintaining said contacts closed for a greater part of the period of the cycle of operation of the make and break mechanism, and a dynamo-electric machine comprising a rotor the rotative speed of which varies with the speed of the engine, and field exciting means connected to inherently control the excitation to maintain an approximately constant voltage in said system independent of speed changes of the dynamo-electric machine when the same is connected in the system.

1,347,461. WINDSHIELD FOR SIDE CARS OF MOTORCYCLES. JAMES E. HELPLING, Los Angeles, Calif. Filed June 11, 1919. Serial No. 303,484. 2 Claims. (Cl. 296—90.)



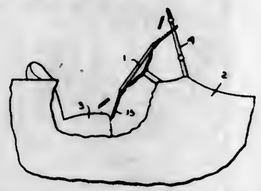
1. A windshield for a motor cycle side car having a bottom and a front hood, comprising posts pivotally connected to the bottom of the car, adjusting bars pivotally connected to the post and extending forwardly below the front hood of the car, means fixed within the hood for holding the bars in an adjusted position, and a windshield fixed to each post above the hood and extending forwardly, the two shields meeting at an angle forwardly of the posts.

1,347,462. OPHTHALMIC MOUNTING. PITT H. HERBERT, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Original application filed Aug. 1, 1917, Serial No. 183,950. Divided and this application filed May 2, 1919. Serial No. 294,214. 4 Claims. (Cl. 88—43.)



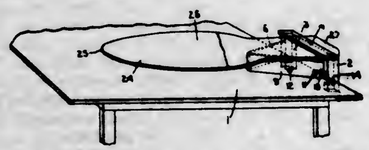
1. A spectacle bridge comprising a central curved portion and enlargements formed at the termini of said curved portion, as and for the purpose set forth.

1,347,463. AUTOMOBILE-LOCK. WINTHROP S. JAMESON, Belmont, Mass. Filed Aug. 16, 1919. Serial No. 317,868. 5 Claims. (Cl. 70—129.)



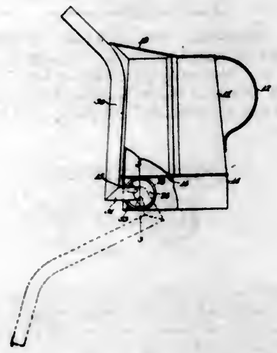
2. An automobile locking device comprising a rigid member having means for locking the same to the wheel of an automobile, said member having an extension of sufficient length to engage the wind shield upon rotation of the steering wheel.

1,347,464. HOLDER FOR SHELVES. THURB A. JOHNSON, Lynn, Mass. Filed Aug. 28, 1919. Serial No. 320,478. 9 Claims. (Cl. 68—10.)



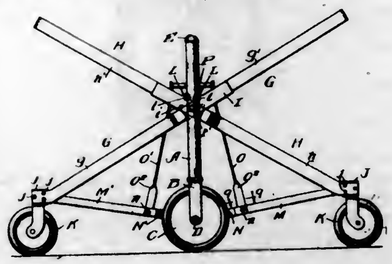
1. A holder for shelves and the like, comprising a stand, means pivotally secured thereto adapted to support a shelf from beneath and means on said stand positioned to engage the shelf from above and hold the same down upon the supporting means.

1,347,465. MEASURE. JESSE DEWEY LEWIS, Los Angeles, Calif., assignor, by direct and mesne assignments, to Scott E. Allen, Hal D. Rives, and Frank Carroll, Los Angeles, Calif. Filed Feb. 3, 1919, Serial No. 274,798. Renewed Jan. 9, 1920. Serial No. 350,478. 2 Claims. (Cl. 221—26.)



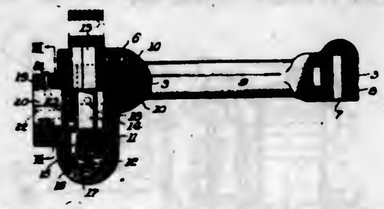
1. A measure comprising a can having an opening in the bottom, a valve casing in open communication with said opening, a plate formed on the valve casing, having a discharge opening therein, a felt washer against the said plate having a corresponding opening therein, said felt washer being crimped at its edge within the edge of the plate, a valve disk against said felt washer retained within the edge of the plate, said disk having an opening therein, a spout chamber formed on said disk, and a spout in open communication with said spout chamber.

1,347,466. COLLAPSIBLE CASKET-CARRIER. JOSEPH A. RAYMOND, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,122. 5 Claims. (Cl. 280—36.)



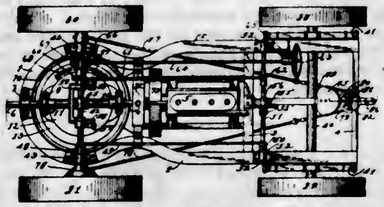
5. In a collapsible carrier, standards, a shaft and an additional shaft joining said standards, wheels rotatably mounted on said shafts, and a frame consisting of caster bases, casters in said bases, bars, one end of said bars attached to said caster bases and the other end of said bars pivotally supported on said adidtional shaft, cradles attached to said pivotally supported end of said bars, and additional bars pivotally attached to said first named bars by pivots extending through said cradles and said additional bars, in combination with a sub frame consisting of bars and a plurality of bars, a handle and vertical bars, said bars pivotally attached to said caster bases, to said plurality of bars and to said vertical bars, and said plurality of bars pivotally supported on said first named shaft, and said handle and vertical bars connected.

1,347,467. TIRE-LOCK. JOSEPH A. SCOTT and JOHNSTON STUART VOIOT, Detroit, Mich., assignors of one-third to Johnston Stuart, Detroit, Mich. Filed Nov. 3, 1919. Serial No. 335,285. 5 Claims. (Cl. 70—17.)



1. A lock of the type described comprising a shackle, a locking bar having one end thereof pivotally connected to one end of said shackle, a socket carried by the opposite end of said locking bar and adapted to receive the other end of said shackle, a lock body carried by said socket, a reciprocable bolt in said lock body adapted to engage the end of the shackle in said socket, and means carried by said lock body adapted to retain said bolt in a retracted position in engagement with the end of said shackle.

1,347,468. TRACTOR. MILLARD E. STOCKWELL, Monrovia, Calif. Filed Mar. 7, 1919. Serial No. 282,480. 3 Claims. (Cl. 180—42.)



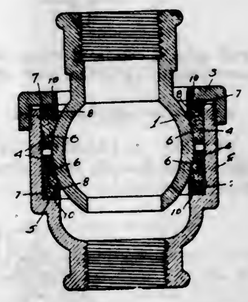
1. In a tractor, a frame, a housing rotatable thereon, a driving mechanism including a driving pinion, a pair of spaced gears journaled in said housing and having vertical axes and operated by said pinion, a pair of worm gears axially alined with said gears and operated thereby, a common gear carried on the axle of the vehicle and meshing with both of said worm gears, whereby the operation thereof may be balanced, a tractor frame, and a housing for rotatably supporting said axle and adapted to inclose said gears.

1,347,469. WELL-BORING TOOL. STEVEN TOTH, Los Angeles, Calif. Filed Mar. 11, 1919. Serial No. 281,928. 1 Claim. (Cl. 255—76.)



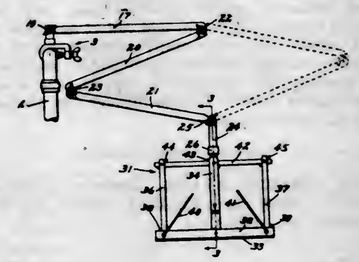
A well boring tool comprising a stock having a hollow bore, a piston mounted in said bore and adapted to slide therein, a plurality of cutting jaws pivoted adjacent the bottom of said stock and adapted to engage with said piston, means for admitting fluid under pressure to said hollow bore and behind said piston, and a spring tension valve in said stock communicating with said hollow bore for automatically relieving the fluid pressure in said bore when said jaws start to contract.

1,347,470. GASKET FOR FLEXIBLE JOINTS. FRANCIS N. BARD, Highland Park, Ill. Filed Aug. 6, 1915. Serial No. 43,996. 1 Claim. (Cl. 285—95.)



A ball and socket joint comprising a ball, a casing into which said ball is received, a cap for said casing, one or more molded non metallic gaskets within said casing, said gaskets being engaged by said ball, an annular rigid piece having an annular groove extending entirely thereabout and into which the non metallic gasket is molded, the outer and inner faces of said rigid piece being substantially flush with the outer and inner faces of the gasket.

1,347,471. BOOK-HOLDER FOR BEDS, &c. ALFORD A. CONNORS, Universal City, Calif. Filed July 25, 1919. Serial No. 313,356. 3 Claims. (Cl. 45—82.)

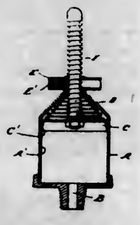


1. A bookholder for beds and the like comprising a clamp adapted to engage the round horizontal head rail of a bed, a swivel upon the clamp having a vertical axis and having a bifurcated upper end, an arm adapted to be clamped within the bifurcated end of the swivel and extending outwardly therefrom, a second arm connected to the first arm by a clamping joint, a third arm connected to the second arm by a clamping joint, and a book frame connected to the third arm by a clamping joint and adapted to hold a book in position to be read by a person lying upon his back upon a bed.

1,347,472. GREASE-CUP. CULLEN D. CORLISS, Detroit, Mich., assignor to Michigan Lubricator Company, Detroit, Mich., a Corporation of Michigan. Filed June 20, 1918. Serial No. 240,914. 2 Claims. (Cl. 184—48.)

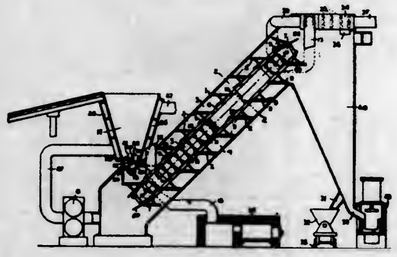
1. In a grease cup, the combination with the cup for the grease, of a resilient metal plunger relatively mov-

able longitudinally thereof, said plunger provided with an integral peripheral knife-edge flange slidably engaging



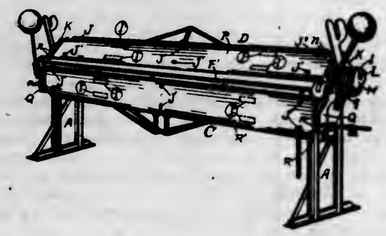
the inner wall of said cup, said flange having a normal outer diameter greater than the inner diameter of said cup.

1,347,473. DRYING APPARATUS. FRED T. DOW, Bangor, Me. Filed Apr. 29, 1919. Serial No. 293,386. 11 Claims. (Cl. 34—12.)



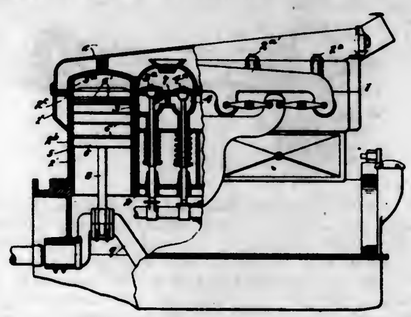
9. In a drying apparatus, the combination with an elongated inclined chamber divided longitudinally into two passages, of an endless conveyer having its runs operating in said passages and comprising a plurality of reticulated carriers constructed to stand in a horizontal position, means to operate said conveyer, said chamber having an opening leading to one end of one passage and beneath which the horizontally-arranged carriers pass successively, means to deliver continuously material to be dried through said opening by gravity, and means to cause a heating medium to pass through the passage containing the loaded carrier.

1,347,474. BENDING-BRAKE. HERMAN C. DEBIS, Chicago, Ill. Filed Sept. 22, 1919. Serial No. 325,439. 7 Claims. (Cl. 153—16.)



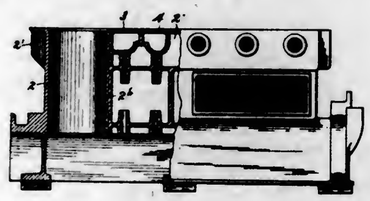
1. In a bending brake, an apron consisting of pivoted end members, in combination with a plate arranged to form a supporting member secured at its ends to said end members, an additional plate member, and means, between the ends thereof, to support said additional member in spaced relation to said supporting member.

1,347,475. INTERNAL-COMBUSTION MOTOR. EDMUND E. ALLYNE, Cleveland, Ohio, assignor to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 29, 1915. Serial No. 17,656. 7 Claims. (Cl. 123—193.)



1. A composite internal combustion motor cylinder comprising a casting of metallic alloy having high coefficients of heat conductivity and expansion and low specific gravity, in comparison with iron, and formed with an inner cylindrical wall surrounded by a water jacket and interiorly surfaced concentrically to the axis of said cylinder, and a tubular member constituting a piston-wear-resisting liner for said cylindrical wall, said member being of substantially uniform cross section in any transverse plane to be traversed by the motor piston and having its outer surface snugly fitting the inner cylindrical wall of said casting throughout the length of said liner to be traversed by the piston.

1,347,476. PROCESS OF MAKING CYLINDERS FOR INTERNAL-COMBUSTION ENGINES. EDMUND E. ALLYNE, Cleveland, Ohio, assignor to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 29, 1915. Serial No. 17,657. 7 Claims. (Cl. 123—193.)

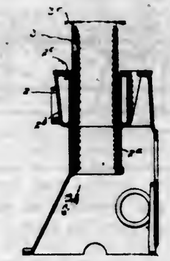


1. The herein described process which consists in casting from a metal having a higher co-efficient of heat conductivity and a softer consistency than iron, a tubular section surrounded by cooling means, forming a tubular liner of iron the walls of which at any cross section are of uniform thickness throughout and then inserting said liner into said tubular section of said casting and causing intimate contact between its exterior relatively hard surface and the relatively soft interior surface of said casting wherever heat is to be transferred through said liner and casting to said cooling means.

1,347,477. MOTOR-CYLINDER AND PROCESS OF MAKING SAME. EDMUND E. ALLYNE, Cleveland, Ohio, and JOHN WESLEY COLLINS, Detroit, Mich., assignors to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 12, 1916. Serial No. 103,136. 4 Claims. (Cl. 29—148.)

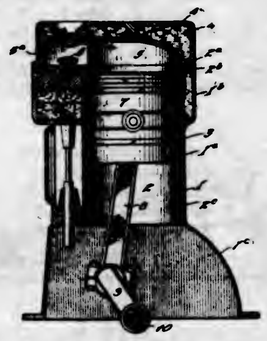
1. The art of making a composite internal combustion motor cylinder, which consists in pouring molten aluminum

alloy having a low specific gravity and a high coefficient of heat conductivity, in comparison with iron, against a core having cylindrical peripheral parts formed of material with a high coefficient of heat conductivity in comparison with sand, then accurately surfacing the inner



cylindrical chilled wall of the resulting casting, and then inserting a tubular liner, of a shape and size to fit within said cylinder section, in said casting with its outer walls in intimate engagement where desired with said chilled inner cylindrical wall of said casting.

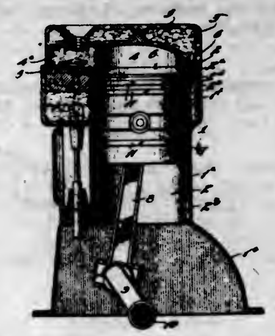
1,347,478. INTERNAL-COMBUSTION-MOTOR CYLINDER. JAMES E. DIAMOND, Cleveland, Ohio, assignor to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 17, 1916. Serial No. 126,182. 3 Claims. (Cl. 74—108.)



1. A composite internal combustion motor cylinder comprising a casting of metallic alloy having a high coefficient of heat conductivity and formed with an inner cylindrical wall surrounded by a water jacket, and a wear-resisting lining sleeve operatively secured within the said cylindrical wall with a continuous heat insulating space extending between the water jacketed part of the said cylindrical wall and the sleeve.

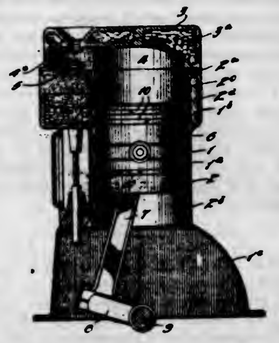
1,347,479. INTERNAL-COMBUSTION MOTOR. ZAY JEFFRIES, East Cleveland, Ohio, assignor to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 23, 1916, Serial No. 127,152. Renewed Nov. 8, 1919. Serial No. 336,733. 13 Claims. (Cl. 74—108.)

6. A composite cylinder for internal combustion motors comprising a casting with a cylindrical wall surrounded by cooling means and a cylindrical liner secured concentrically within the said cylindrical wall, the liner having its external diameter less than the diameter of the inner wall of the casting to afford a clearance between the liner



and casting adapted to be taken up by the expansion of the liner when heated by the internal combustion within the motor.

1,347,480. INTERNAL-COMBUSTION MOTOR. ZAY JEFFRIES, East Cleveland, Ohio, assignor to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 23, 1916, Serial No. 127,153. Renewed Nov. 8, 1919. Serial No. 336,734. 7 Claims. (Cl. 74—108.)



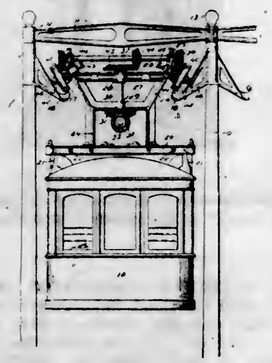
1. In an internal combustion motor, the combination with a composite cylinder comprising an aluminum alloy casting with a cylindrical wall surrounded by cooling means, and a cylindrical liner secured concentrically within the said cylindrical wall, the said liner being made of a metallic alloy having a high coefficient of thermal expansion approximating that of the alloy of the said casting and having its outside diameter less than the diameter of the inner wall of the casting to afford a clearance between the liner and casting adapted to be taken up by the expansion of the liner when heated by the internal combustion within the motor, of an aluminum alloy piston arranged to reciprocate in the liner.

1,347,481. PROCESS OF MAKING CASTINGS. ZAY JEFFRIES, East Cleveland, Ohio, assignor to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 24, 1917. Serial No. 192,931. 1 Claim. (Cl. 22—188.)

The process of making intricate castings, having shapes with abrupt changes in their cross sectional dimensions, from aluminum alloys or other metals having high coefficients of thermal expansion in comparison with iron, said process being characterized by the introduction of the

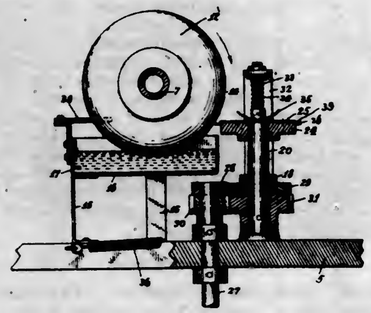
molten metal of the character specified into a permanent mold which is formed of metal having substantially the same coefficient of thermal expansion as the metal of the casting and a high coefficient of thermal conductivity in comparison with iron.

1,347,482. OVERHEAD TRANSIT APPARATUS. OMAR BARTLETT and HARRY FAYER, Lewiston, Idaho. Filed Sept. 24, 1919. Serial No. 325,892. 4 Claims. (Cl. 104—94.)



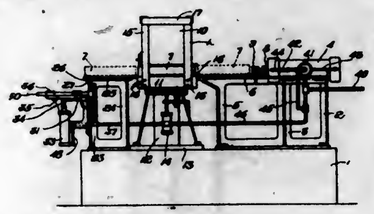
1. An apparatus of the character described, comprising spaced vertical uprights, track hangers secured to said uprights and having upturned rail supporting ends, track rails carried by said ends, a carrier, brackets on the carrier and having upwardly divergent portions, horizontal and angularly disposed bearings on said upwardly divergent portions, a counter shaft journaled in the horizontal bearings, stub axles carried in the angularly disposed bearings, peripherally grooved traction rollers on said axles and engaging said track rails, gear connections between said shaft and said rollers, and motor driven connections coöperating with said shaft.

1,347,483. NON-CIRCULAR-CAN-COVER-LINING MACHINE. JULIUS BRENZINGER, Fairfield, Conn., assignor to Sanitary Can Machinery Company, Ellsworth, Me., a Corporation of Maine. Filed Aug. 9, 1918. Serial No. 249,105. 12 Claims. (Cl. 113—80.)



1. In a machine of the character described, the combination of a rotating element having a smooth face adapted to receive a liquid coating, means for supporting a can head or cover in edgewise disposition relative to said face, and means for rotating said supporting means, said element and said supporting means being relatively shiftable toward and away from each other during rotation thereof.

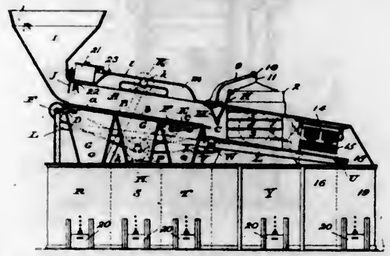
1,347,484. PROCESS OF AND APPARATUS FOR MOLDING CLAY PRODUCTS. DAVIS BROWN, Bucyrus, Ohio, assignor to Raymond C. Penfield, Chicago, Ill. Filed Mar. 13, 1918. Serial No. 222,167. 1 Claim. (Cl. 25—41.)



Apparatus of the kind described for forming clay articles, comprising a mold receiving table, a power actuated cylinder in alinement with said table, jolt ramming mechanism having a vertically removable table normally at rest and in alinement with the mold receiving table, a hopper carried by said vertically reciprocating table and spaced therefrom, and automatic means to actuate said power cylinder and jolt ramming mechanism, whereby an empty mold applied to the mold receiving table will be forced under the hopper and thereupon subjected to jolt ramming action with said hopper to fill the mold, the action of the cylinder forcing said mold into position, being automatically retracted to receive a second empty mold, and the successive action of the cylinder removing the filled mold and positioning the second empty mold under the hopper.

REISSUES.

14,917. APPARATUS FOR SORTING HETEROGENEOUS MATERIAL. DANIEL R. BRYAN, Chatham, N. J.; Francis J. Bryan administrator of said Daniel R. Bryan, deceased. Filed Mar. 31, 1917. Serial No. 158,972. Original No. 1,139,484, dated May 18, 1915, Serial No. 837,851, filed May 11, 1914. 19 Claims. (Cl. 83—54.)



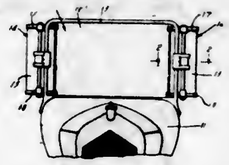
1. In an apparatus for sorting heterogeneous material, the combination of a chute, a casing opening into said chute and having a series of compartments, said compartments having a plurality of inlet openings arranged therein at relatively different heights, a fan located diametrically opposite the said openings, arranged for blowing a blast of air transversely of the material as it passes down the chute for separating paper and light particles from the mass and directing them into the said inlet openings, and means for adjusting said casing relatively to said chute.

14,918. SPRING SUSPENSION FOR VEHICLES. CHARLES DRABEK, Cleveland, Ohio, assignor to The Drabek Equalizer Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 22, 1916. Serial No. 86,015. Original No. 1,119,937, dated Dec. 8, 1914, Serial No. 805,535, filed Dec. 9, 1913. 12 Claims. (Cl. 267—19.)

1. In a vehicle, the combination with two fixed supporting members, of two frame members each pivotally attached at one end to one of said supporting members, two other frame members each pivotally attached at one end to the other of said supporting members, a transverse member connecting said two first-named frame members, a second transverse member connecting said two last-named frame members, connections between said transverse members, and resilient means connecting each of said transverse members to the frame members to which it is already attached, said resilient means being attached to the ends of said frame members.

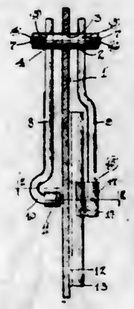


14,919. WINDSHIELD. CLARENCE D. KELLER, Los Angeles, Calif. Filed May 22, 1919. Serial No. 299,030. Original No. 1,284,357, dated Nov. 12, 1918, Serial No. 174,770, filed June 14, 1917. 23 Claims. (Cl. 296—84.)



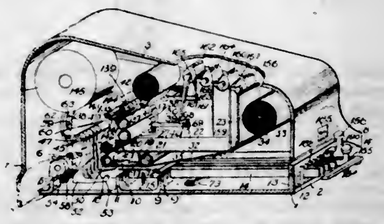
6. In an auxiliary windshield, the combination of a shield member, a supporting element for the shield member embodying a rod and spaced brackets thereon engaging and supporting the shield member at spaced points of support, and a single adjustable supporting means for the rod engaging and supporting the rod between the spaced brackets.

14,920. WINDSHIELD-CLEANER. LAWRENCE H. MORSE and JAMES J. TRACY, Cleveland, Ohio; said Morse assignor to said Tracy. Filed June 15, 1920. Serial No. 389,483. Original No. 1,339,216, dated May 4, 1920, Serial No. 66,154, filed Dec. 10, 1915. 4 Claims. (Cl. 15—59.)



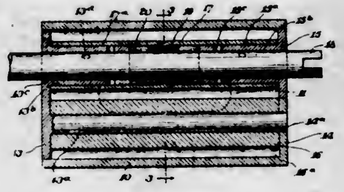
1. A wind-shield cleaner, comprising a bearing fixed transversely of the shield; a spindle loosely held in such bearing; two transversely disposed arms rigidly attached one to each end of said spindle, so as to lie on opposite sides of such shield; and an elongated cleaning element attached to one of said arms so as to be held in approximately parallel relation therewith, the other arm being disposed to movably contact with such shield at a point approximately opposite the middle of said cleaning element, whereby said cleaning element is pressed against such shield, and said spindle being both longitudinally movable in the bearing in said shield and oscillatory in the plane of the device about an axis passing through such point of contact of said other arm with such shield, whereby the pressure of said cleaning element on the shield is at all times automatically maintained uniform throughout the length of said element.

14,921. TELEGRAPH-TRANSMITTER. EDWIN H. PIERSEN, Topeka, Kans., assignor to The Piersen Telegraph Transmitter Company, Topeka, Kans., a Corporation of Kansas. Filed July 28, 1919. Serial No. 313,705. Original No. 1,289,900, dated Dec. 31, 1918, Serial No. 768,473, filed May 19, 1913. 41 Claims. (Cl. 178—17.5.)



5. A telegraph transmitter comprising paired rollers for guiding and forwarding a character tape, a circuit closer adapted for actuation by said tape, a motor, and differential gearing for driving said rollers from the motor.

14,922. PUMP FOR SPEEDOMETERS. THEODORE C. PROUTY, Hermosa Beach, Calif., assignor, by mesne assignments, to Van Sicklen Speedometer Company, Wilmington, Del., a Corporation of Delaware. Filed May 29, 1920. Serial No. 385,366. Original application filed Mar. 28, 1914, Serial No. 827,911. Renewed Aug. 6, 1917, Serial No. 184,787. Original No. 1,256,829, dated Feb. 19, 1918. 7 Claims. (Cl. 103—44.)

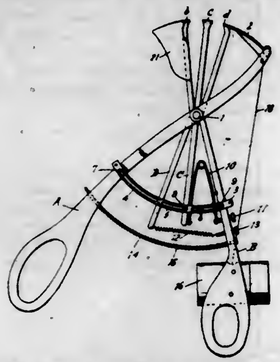


1. In a device of the class described, the combination of rotatable fluid actuating mechanism, bearing mechanism upon which said rotatable mechanism is rotatably mounted, and provided with a concentric axial bore, shaft mechanism extending through and journaled in said axial bore, a collar secured to said shaft and having embedded therein portions of said rotatable fluid actuating mechanism, whereby said rotatable fluid actuating mechanism and said shaft rotate in unison.

14,923. SURGICAL INSTRUMENT. HARRY SMIT, New York, N. Y. Filed Nov. 26, 1919. Serial No. 340,937. Original No. 1,293,565, dated Feb. 4, 1919, Serial No. 256,737, filed Oct. 3, 1918. 28 Claims. (Cl. 128—340.)

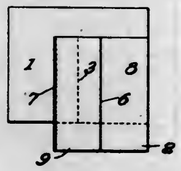
1. In a surgical instrument of the character specified, main members pivotally connected, an intermediate piv-

oted member, connecting means between the intermediate member and one of the main members to limit the relative



movement of the members in one direction, and a spring connection between the intermediate member and one of the main members.

14,924. CATAMENIAL BANDAGE. ALBERT T. VAN ALSTYN, Grand Rapids, Mich. Filed June 15, 1920. Serial No. 389,485. Original No. 1,175,090, dated Mar. 14, 1916, Serial No. 859,939, filed Sept. 3, 1914. Reissue No. 14,722, dated Sept. 9, 1919, Serial No. 135,483, filed Dec. 6, 1916. Reissue No. 14,830, dated Mar. 30, 1920, Serial No. 342,564, filed Dec. 4, 1919. 5 Claims. (Cl. 128—290.)



5. A duplex reversible bandage comprehending two connected parts each of single thickness and either of which may be folded a plurality of times to provide a relatively short but thick absorbent pad, said pad being folded within the remaining part, whereby the folded bandage comprises the pad inclosed in a container formed of the remaining part and providing relatively thin attaching ends.

DESIGNS.

55,838. TOY WAGON. EDNA HESTER BADGLEY, Springfield, Mo. Filed Apr. 2, 1920. Serial No. 370,889. Term of patent 7 years.



The ornamental design for a toy wagon, as shown.

55,839. TOY WAGON. EDNA HESTER BADGLEY, Springfield, Mo. Filed Apr. 2, 1920. Serial No. 370,890. Term of patent 7 years.



The ornamental design for a toy wagon, as shown.

55,840. DOLL. SOLOMON B. BERNSTEIN, Brooklyn, N. Y. Filed Mar. 18, 1920. Serial No. 366,994. Term of patent 3½ years.





The ornamental design for a doll, as shown.

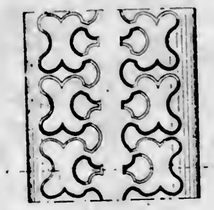
55,841. DOLL. VICTOR BERNSTEIN, Brooklyn, N. Y. Filed Dec. 20, 1919. Serial No. 346,391. Term of patent 3½ years.





The ornamental design for a doll, as shown.

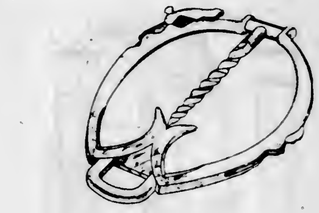
55,842. AUTOMOBILE-TIRE TREAD. ARTHUR L. BERNSTEIN, Akron, Ohio, assignor to Wilson Rubber Company, Des Moines, Iowa. Filed Apr. 14, 1920. Serial No. 373,972. Term of patent 14 years.





The ornamental design for an automobile tire tread.

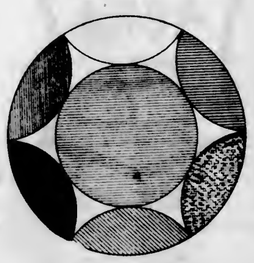
55,843. COMBINATION CAP AND BOTTLE OPENER, BOX-OPENER, AND CIGAR-CUTTER. ALFRED T. CHARLIER, Luxembourg, Wis. Filed July 24, 1919. Serial No. 313,111. Term of patent 7 years.





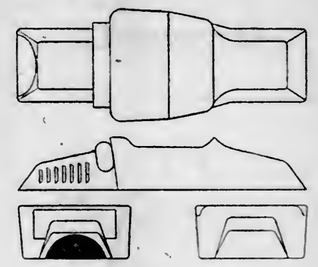
The ornamental design for a combination cap and bottle opener, box opener and cigar cutter as shown and described.

55,844. EMBLEM, BANNER, BADGE, PIN, OR SIMILAR ARTICLE. TIMOTHY A. CLANCY, Hartford, Conn. Filed Feb. 1, 1919. Serial No. 274,571. Term of patent 7 years.



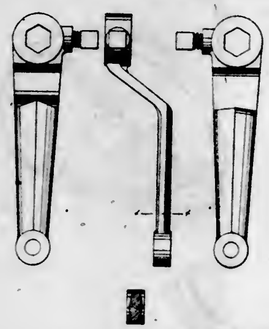
The ornamental design for an emblem, banner, badge, pin or similar article, as shown.

55,845. AUTOMOBILE-BODY. HARRY E. CROSS, Rockton, Ill. Filed Nov. 29, 1919. Serial No. 341,542. Term of patent 3½ years.



The ornamental design for an automobile body, as shown.

55,846. HANDLE FOR MUFFLER-VALVES. ALLYN R. COOPER, Marshalltown, Iowa. Filed Jan. 24, 1920. Serial No. 353,888. Term of patent 14 years.



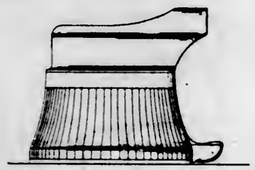
The ornamental design for a handle for muffler valves, as shown.

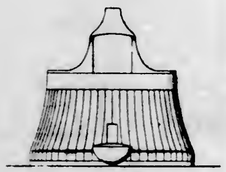
55,847. EMBLEM, BADGE, OR BUTTON. HERBERT T. DICKINSON, Denver, Colo. Filed May 16, 1919. Serial No. 297,707. Term of patent 7 years.



The ornamental design for an emblem, badge or button.

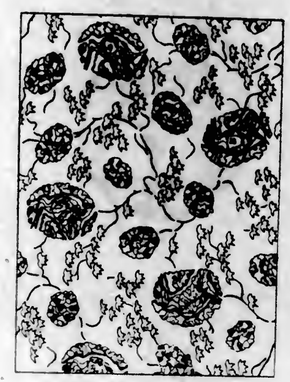
55,848. VENDING-MACHINE. JAMES H. EGAN, Philadelphia, Pa. Filed Nov. 8, 1919. Serial No. 336,747. Term of patent 7 years.





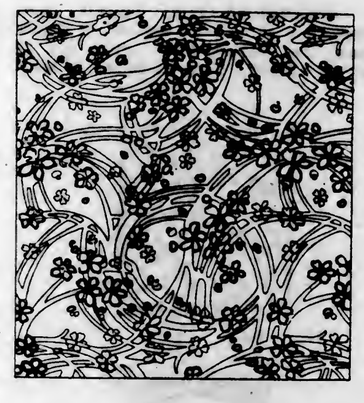
The ornamental design for a vending machine as shown.

55,849. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Aug. 22, 1919. Serial No. 319,280. Term of patent 3½ years.



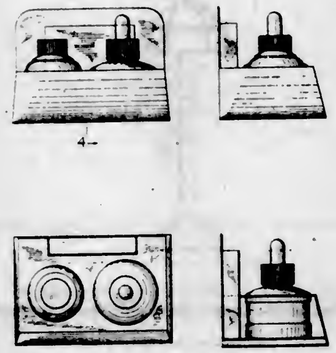
The ornamental design for a textile fabric, as shown.

55,850. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 3, 1919. Serial No. 308,673. Term of patent 3½ years.



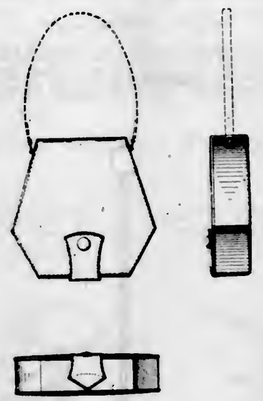
The ornamental design for a textile fabric, as shown.

55,851. INKSTAND. JULIUS ERDOSS and ELMER SAS, New York, N. Y., assignors to The Metallograph Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 26, 1919. Serial No. 347,608. Term of patent 3½ years.



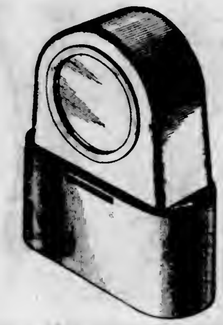
The ornamental design for an inkstand, as shown.

55,852. LADY'S VANITY-CASE. ABRAHAM C. FISHER, New York, N. Y. Filed Mar. 13, 1920. Serial No. 365,640. Term of patent 3½ years.



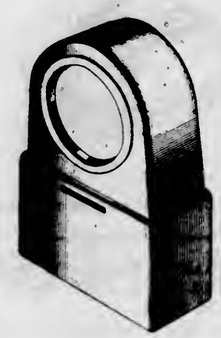
The ornamental design for a lady's vanity case, substantially as shown.

55,853. CLOCK-BANK CASE. CHARLES FISHER, Chicago, Ill., assignor to The Automatic Recording Safe Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 27, 1917. Serial No. 151,355. Term of patent 7 years.



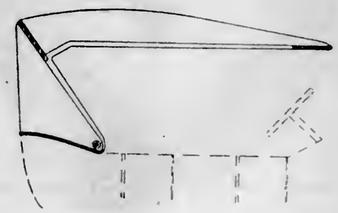
The ornamental design for a clock-bank case, as shown.

55,854. CLOCK-BANK CASE. CHARLES FISHER, Chicago, Ill., assignor to The Automatic Recording Safe Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 27, 1917. Serial No. 151,356. Term of patent 7 years.



The ornamental design for a clock-bank case, as shown.

55,855. AUTOMOBILE-TOP. CHARLES A. FOLMER, Bernharts, Pa. Filed June 1, 1920. Serial No. 385,841. Term of patent 7 years.



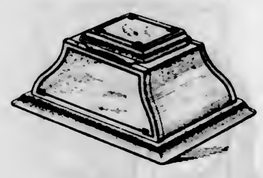
The ornamental design for an automobile top, as shown.

55,856. COMBINED TROUSERS AND BOOTS. WALTER L. FRY, New Rochelle, N. Y. Filed Apr. 3, 1919. Serial No. 287,364. Term of patent 7 years.



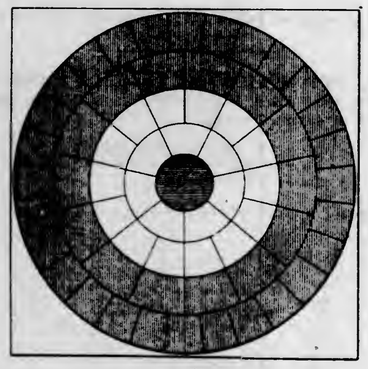
The ornamental design for combined trousers and boots, as shown.

55,857. INKSTAND. FRANZ A. FULLER, Newark, N. J., assignor to The J. E. Mergott Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 25, 1920. Serial No. 368,752. Term of patent 14 years.



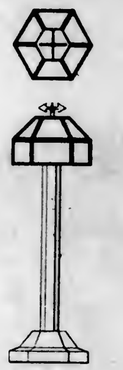
The ornamental design for an inkstand, as shown.

55,858. GAME-BOARD. BERNARD E. GAGNON, Bridgeport, Conn. Filed Dec. 5, 1919. Serial No. 342,852. Term of patent 3½ years.



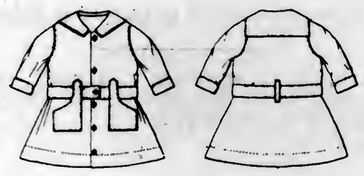
The ornamental design for a game board, substantially as shown.

55,859. GUIDE-POST. HENRY JAMES HICKEY and WARNER E. MCMULLAN, Fort Dodge, Iowa. Filed June 19, 1919. Serial No. 305,442. Term of patent 3½ years.



The ornamental design for a guide-post as shown.

55,860. CHILD'S DRESS. MILTON A. HIRSH, Los Angeles, Calif., assignor to Cohn, Goldwater Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 14, 1919. Serial No. 290,093. Term of patent 3½ years.



The ornamental design for a child's dress, as shown.

55,861. STIRRING-ROD OR SIMILAR ARTICLE. JULIUS HIRSCH, Brooklyn, N. Y. Filed May 21, 1920. Serial No. 383,291. Term of patent 3½ years.



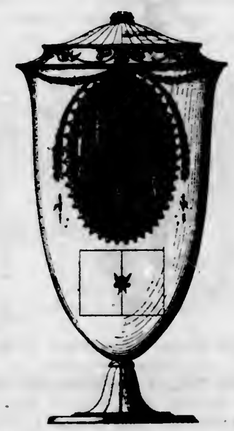
The ornamental design for a stirring-rod, or similar article, as shown.

55,862. BUTTON. WILLIAM W. HOBB, New York, N. Y. Filed May 21, 1920. Serial No. 383,296. Term of patent 3½ years.



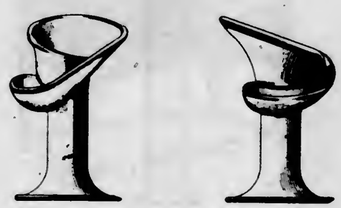
The ornamental design for a button as shown and described.

55,863. PHONOGRAPH-CABINET. PAUL IRIBE, New York, N. Y. Filed May 12, 1920. Serial No. 380,922. Term of patent 14 years.



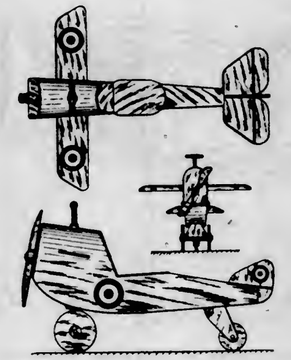
The ornamental design for a phonograph cabinet, as shown.

55,864. GARDEN-URN. CLARENCE E. JENKINS, Keene, N. H. Filed Oct. 27, 1919. Serial No. 333,848. Term of patent 14 years.



The ornamental design for a garden urn, as shown.

55,865. CHILD'S VELOCIPEDE. VICTOR E. LA VANWAY and OLIVE L. LA VANWAY, Tacoma, Wash., assignors of one-half to Frank Wayno, Tacoma, Wash. Filed Feb. 7, 1920. Serial No. 357,108. Term of patent 7 years.



The ornamental design for a child's velocipede, as shown.

55,866. DOLL. HUGO L. LEDERER, New York, N. Y. Filed Feb. 18, 1920. Serial No. 359,700. Term of patent 3½ years.



The ornamental design for a doll, as shown.

55,867. STRIKING-FACE FOR A GOLF-CLUB HEAD. GEORGE W. MATTERN, Dayton, Ohio, assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 12, 1919. Serial No. 317,063. Term of patent 14 years.



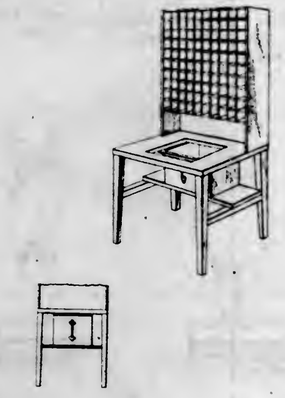
The ornamental design for a striking face for a golf club head as shown.

55,868. ICE-CREAM CONE OR SIMILAR ARTICLE. JULIUS B. MELTZ, Everett, Mass., assignor to Everett Machine & Manufacturing Company, Everett, Mass., a Corporation of Massachusetts. Filed Apr. 23, 1919. Serial No. 292,176. Term of patent 3½ years.



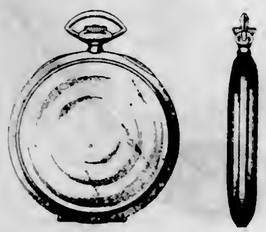
The ornamental design for an ice cream cone or similar article, substantially as shown.

55,869. DICTAPHONE-RECORD CABINET. SAMUEL Q. MCCLURE, Akron, Ohio. Filed Aug. 20, 1919. Serial No. 318,821. Term of patent 7 years.



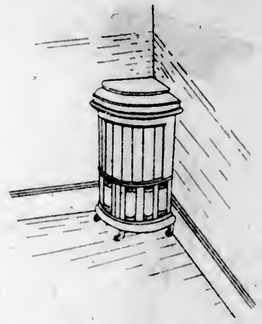
The design for a dictaphone record cabinet substantially as herein shown.

55,870. WATCH CASE AND BOW. JEREMIAH MCGRATH, Brooklyn, N. Y., assignor to Solidarity Watch Case Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 18, 1918. Serial No. 229,443. Term of patent 14 years.



The ornamental design for a watch case and bow, as shown.

55,871. TALKING-MACHINE CABINET. HARRY BENDA MILES, Elwood, Victoria, Australia. Filed Dec. 18, 1919. Serial No. 345,905. Term of patent 14 years.



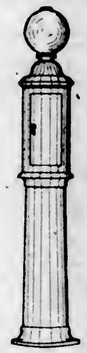
The ornamental design for a talking machine cabinet, as shown.

55,872. STATUE. PIETRO MONTANA, Brooklyn, N. Y. Filed Dec. 19, 1919. Serial No. 346,188. Term of patent 7 years.



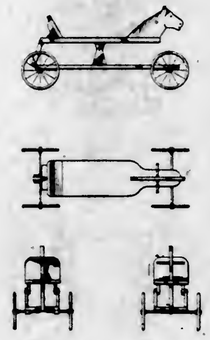
The ornamental design for a statue as shown.

55,873. CASING FOR A DISPENSING APPARATUS. MATTHEW B. MUXEN, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, a Corporation of Indiana. Filed Apr. 10, 1919. Serial No. 289,142. Term of patent 14 years.



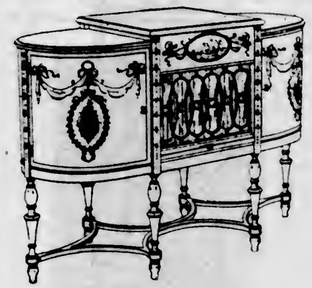
The ornamental design for a casing for a dispensing apparatus as shown.

55,874. CHILD'S VEHICLE. LEO F. NOIROT and OTTO G. NOIROT, Peoria, Ill. Filed Jan. 29, 1920. Serial No. 354,966. Term of patent 7 years.



The ornamental design for a child's vehicle as shown.

55,875. PHONOGRAPH-CABINET. HENRY ORSENIGO, Mount Vernon, N. Y. Filed Apr. 10, 1919. Serial No. 289,137. Term of patent 14 years.



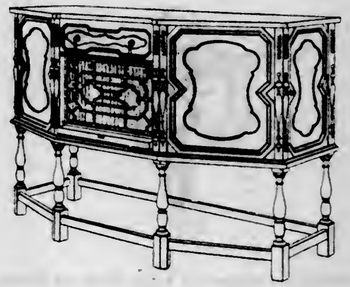
The ornamental design for a phonograph cabinet, as shown.

55,876. PHONOGRAPH-CABINET. HENRY ORSENIGO, Mount Vernon, N. Y. Filed Apr. 10, 1919. Serial No. 289,138. Term of patent 14 years.



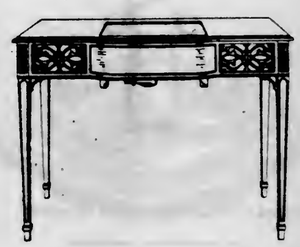
The ornamental design for a phonograph cabinet, as shown.

55,877. PHONOGRAPH-CABINET. HENRY ORSENIGO, Mount Vernon, N. Y. Filed Apr. 10, 1919. Serial No. 289,139. Term of patent 14 years.



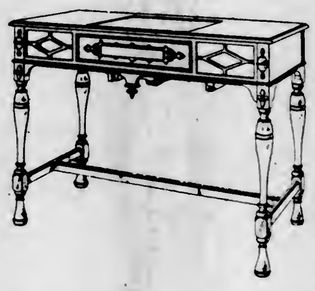
The ornamental design for a phonograph cabinet, as shown.

55,878. PHONOGRAPH-CABINET. HENRY ORSENIGO, Mount Vernon, N. Y. Filed Dec. 27, 1919. Serial No. 347,876. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

55,879. PHONOGRAPH-CABINET. HENRY ORSENIGO, Mount Vernon, N. Y. Filed Dec. 27, 1919. Serial No. 347,877. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

55,880. TOY RATTLE. CHARLES HAMILTON PAJEAU, Evanston, Ill. Filed Apr. 9, 1920. Serial No. 372,678. Term of patent 7 years.



The ornamental design for a toy rattle as shown.

55,881. DOLL. CHARLES HAMILTON PAJEAU, Evanston, Ill. Filed Apr. 9, 1920. Serial No. 372,679. Term of patent 7 years.



The ornamental design for a doll, as shown.

55,882. DOLL. ERNESTO PERUGGI, New York, N. Y. Filed Oct. 20, 1919. Serial No. 332,125. Term of patent 3½ years.





The ornamental design for a doll, as shown.

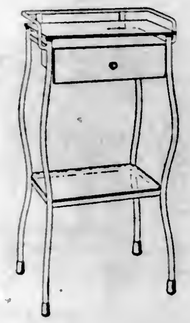
55,883. DOLL. ERNESTO PERUGGI, New York, N. Y. Filed Oct. 21, 1919. Serial No. 332,815. Term of patent 3½ years.





The ornamental design for a doll, as shown.

55,884. TABLE. GEORGE POLL, New York, N. Y. Filed Apr. 9, 1920. Serial No. 372,683. Term of patent 7 years.



The ornamental design for a table, as shown.

55,885. CANDY-BOX. ERASMUS COLLINS QUINBY, Los Angeles, Calif. Filed Feb. 16, 1920. Serial No. 359,182. Term of patent 14 years.



The ornamental design for a candy box, as shown.

55,886. TOY FIGURE. FLORENCE K. REYNOLDS, San Francisco, Calif. Filed Feb. 4, 1920. Serial No. 350,237. Term of patent 7 years.



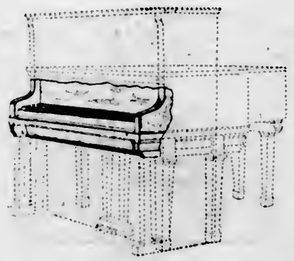
The ornamental design for a toy figure, substantially as shown.

55,887. EMBOSSED WALL-PAPER. WILLIAM F. ROEHLEN, Rochester, N. Y., assignor to Becker, Smith & Page, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 20, 1919. Serial No. 339,446. Term of patent 3½ years.



The ornamental design for embossed wall paper as shown.

55,888. KEY-BED FOR PIANOS. HENRY J. SANDLASS, Forest Park, Md. Filed Mar. 24, 1917. Serial No. 157,276. Term of patent 14 years.



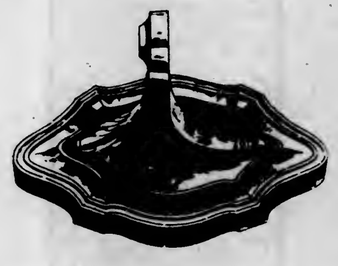
The ornamental design for a key bed for pianos, as shown.

55,889. PLATE FOR LIGHTING-FIXTURES. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1920. Serial No. 371,773. Term of patent 7 years.



The ornamental design for a plate for lighting fixtures, as shown.

55,890. PLATE FOR LIGHTING-FIXTURES. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1920. Serial No. 371,774. Term of patent 7 years.



The ornamental design for a plate for lighting fixtures, as shown.

55,891. BOTTLE. ERIC SCUDDER and NEIL C. WARD, Chicago, Ill. Filed Jan. 31, 1920. Serial No. 355,437. Term of patent 14 years.



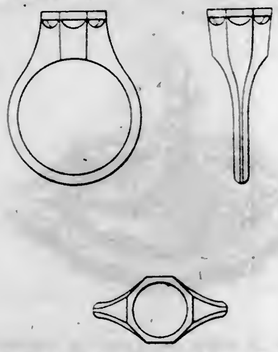
The ornamental design for a bottle as shown.

55,892. BOTTLE. ERIC SCUDDER and NEIL C. WARD, Chicago, Ill. Filed Jan. 31, 1920. Serial No. 355,438. Term of patent 14 years.



The ornamental design for a bottle as shown.

55,893. FINGER-RING. JOSEPH SIMMONS, New York, N. Y. Filed Feb. 3, 1920. Serial No. 355,983. Term of patent 3½ years.



The ornamental design for a finger ring as shown.

55,894. DOLL OR STATUETTE. HOWELL B. SMITH, Nyack, N. Y., KENNETH C. THOMAS, Interlaken, N. J., and ALFRED J. OUELLETTE, Duluth, Minn. Filed Jan. 24, 1920. Serial No. 353,879. Term of patent 3½ years.



The ornamental design for a doll or statuette, as shown.

55,895. DOLL OR STATUETTE. HOWELL B. SMITH, Nyack, N. Y., KENNETH C. THOMAS, Interlaken, N. J., and ALFRED J. OUELLETTE, Duluth, Minn. Filed Jan. 24, 1920. Serial No. 353,880. Term of patent 3½ years.



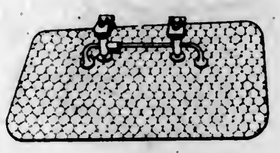
The ornamental design for a doll or statuette, as shown.

55,896. BADGE, EMBLEM, OR ARTICLE OF SIMILAR NATURE. EDWIN D. STACKHOUSE, Columbus, Ohio. Filed Mar. 15, 1920. Serial No. 366,180. Term of patent 7 years.



The ornamental design for a badge, emblem, or article of similar nature as shown.

55,897. WINDSHIELD. FREDERICK S. TEW, Fort Worth, Tex. Filed Feb. 19, 1920. Serial No. 359,937. Term of patent 3½ years.



The ornamental design for a windshield, as shown.

55,898. INKSTAND. GUST THOMAS, Fort Sill, Okla. Filed Mar. 20, 1920. Serial No. 367,493. Term of patent 14 years.



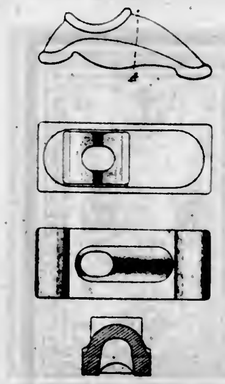
The ornamental design for an inkstand, as shown.

55,899. PLATE FOR LIGHTING-FIXTURES. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1920. Serial No. 371,775. Term of patent 7 years.



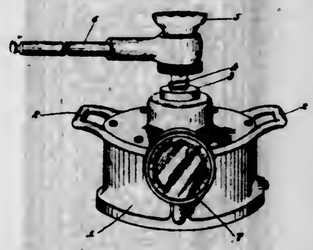
The ornamental design for a plate for lighting fixtures, as shown.

55,900. CLAMPING-DOG. CHARLES RALPH TOWNSEND, Birmingham, England, assignor to The Autoset Clamp Company Limited, Birmingham, England. Filed Mar. 5, 1919. Serial No. 280,866. Term of patent 14 years.



The ornamental design for a clamping dog as shown.

55,901. LOAD-MEASURING DEVICE. FREDERICK J. TROLL, Baltimore County, Md., assignor to The Loadometer Company, Baltimore, Md., a Corporation of Delaware. Filed Apr. 20, 1920. Serial No. 375,401. Term of patent 3½ years.



The ornamental design for a load measuring device, substantially as shown and described.

55,902. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,646. Term of patent 3½ years.



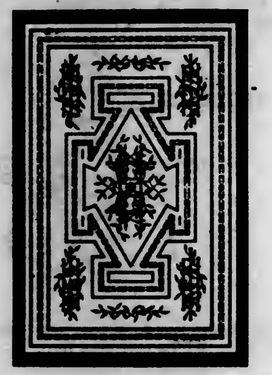
The ornamental design for a rug, as shown.

55,903. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,647. Term of patent 3½ years.



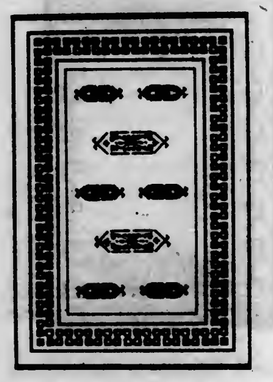
The ornamental design for a rug, as shown.

55,904. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,648. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,905. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,649. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,906. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,650. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,907. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,651. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,908. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,652. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,909. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,653. Term of patent 3½ years.



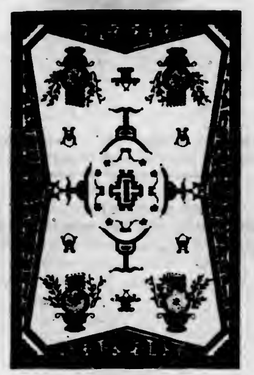
The ornamental design for a rug, as shown.

55,910. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,655. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,911. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,656. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,912. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,657. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,913. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,658. Term of patent 3½ years.



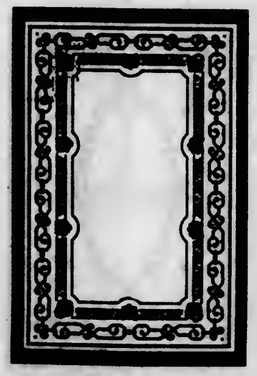
The ornamental design for a rug, as shown.

55,914. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,659. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,915. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,660. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,916. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,661. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,917. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,662. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,918. RUG. ALGERMONT H. WALDO, St. Paul, Minn. Filed Apr. 9, 1920. Serial No. 372,654. Term of patent 3½ years.



The ornamental design for a rug, as shown.

55,919. LAMP. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Co., Meriden, Conn., a Corporation of Connecticut. Filed Apr. 9, 1920. Serial No. 372,666. Term of patent 3½ years.



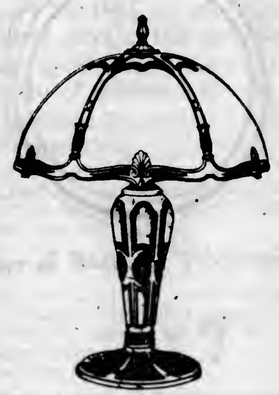
The ornamental design for a lamp substantially as shown.

55,920. TOWER-MONUMENT. BEY A. WISE, Vincennes, Ind. Filed Jan. 10, 1920. Serial No. 350,709. Term of patent 7 years.



The ornamental design for a tower monument as shown.

55,921. LAMP. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Co., Meriden, Conn., a Corporation of Connecticut. Filed Apr. 9, 1920. Serial No. 372,665. Term of patent 3½ years.



The ornamental design for a lamp, substantially as shown.

55,922. LAMP. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Co., Meriden, Conn., a Corporation of Connecticut. Filed Apr. 9, 1920. Serial No. 372,667. Term of patent 3½ years.



The ornamental design for a lamp, substantially as shown.

55,923. LAMP. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Co., Meriden, Conn., a Corporation of Connecticut. Filed Apr. 9, 1920. Serial No. 372,668. Term of patent 3½ years.



The ornamental design for a lamp substantially as shown.

55,924. LAMP. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Co., Meriden, Conn., a Corporation of Connecticut. Filed Apr. 9, 1920. Serial No. 372,669. Term of patent 3½ years.



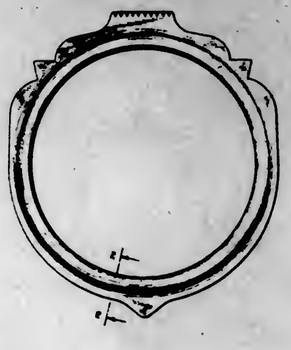
The ornamental design for a lamp substantially as shown.

55,925. SUPPORT. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Co., Meriden, Conn., a Corporation of Connecticut. Filed Apr. 9, 1920. Serial No. 372,670. Term of patent 3½ years.



The ornamental design for a support substantially as shown.

55,926. BEZEL. JACOB WILDENBERG, New York, N. Y., assignor to Wildenberg Bros., New York, N. Y., a Firm composed of Joseph Wildenberg, Jacob Wildenberg, and Charles Wildenberg. Filed Apr. 13, 1920. Serial No. 373,562. Term of patent 7 years.



The ornamental design for a bezel, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 20, 1920.

[PUBLISHED JULY 21, 1920.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 91,480. (CLASS 38. PRINTS AND PUBLICATIONS.) THE ORDER OF RAILROAD TELEGRAPHERS, St. Louis, Mo. Filed Dec. 14, 1915.

Order of Railroad Telegraphers

Particular description of goods.—Printed Books, Pamphlets, Periodicals, (Published Monthly,) and Circulars Used Between Different Units of the Association for the Furtherance of Its Objects.

Claims use since May, 1897.

Ser. No. 103,215. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) THE CHRISTIAN MOERLEIN BREWING CO., Cincinnati, Ohio. Filed Apr. 23, 1917.



The same consisting of a rectangular label having a yellow field and a gold marginal border, the field bearing the name "Moerlein's" in black letters in script ending with a paraph, the name "Moerlein's" being surmounted by a gold circle containing the letter "M" in red, which in turn is surrounded by a crown printed partially in gold.

Particular description of goods.—Beer.

Claims use since April, 1899.

Ser. No. 103,218. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE CHRISTIAN MOERLEIN BREWING CO., Cincinnati, Ohio. Filed Apr. 23, 1917.



The same consisting of a rectangular label having a brown field with a marginal border of gold, the field containing the name "Moerlein's" printed in white in script letters followed by a paraph, the name "Moerlein's" being surmounted by a circular border of gold having a white field bearing the letter "M" in red, surrounded by a crown printed partially in gold.

Particular description of goods.—Beer.

Claims use since April, 1890.

Ser. No. 107,742. (CLASS 2. RECEPTACLES.) ATLANTA PAPER COMPANY, Atlanta, Ga. Filed Dec. 4, 1917.

STONE MOUNTAIN BOSS KRAFT

Particular description of goods.—Paper Bags.

Claims use since Sept. 20, 1917.

Ser. No. 109,117. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Feb. 19, 1918.

Velvet

Particular description of goods.—Smoking and Chewing Tobacco.

Claims use since 1907.

Ser. No. 110,063. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN COLORTYPE COMPANY, New York, N. Y. Filed Apr. 9, 1918.

MULTALYO

Particular description of goods.—Printed Multicolor Etchings Made by Special Processes of Manufacture Used by the Said American Colortype Company.

Claims use since Mar. 12, 1918.

Ser. No. 110,228. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GUSTAVE VOGEL, St. Louis, Mo. Filed Apr. 15, 1918.

AMERICAN LADY

Particular description of goods.—Hair-Nets Manufactured from Silk and Hair.

Claims use since about Apr. 1, 1913.

Ser. No. 110,887. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HY-GN MANUFACTURING CO., Lynchburg, Va. Filed May 14, 1918.

HY-GN

Particular description of goods.—Cleaning Compound for Rugs, Blankets, Woolens, Upholstery, Draperies, Dress Goods, Clothes, Woodwork, Floors, Walls, &c.
Claims use since Apr. 17, 1918.

Ser. No. 111,891. (CLASS 17. TOBACCO PRODUCTS.) THE UNITED KINGDOM TOBACCO CO., LIMITED, Bishopsgate, London, England. Filed June 29, 1918.

Sarony CIGARETTES

No claim is made to the word "Cigarettes" except as shown in the drawing.
Particular description of goods.—Cigarettes.
Claims use since the year 1908.

Ser. No. 112,445. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIETÀ CERAMICA RICHARD-GINORI, Milan, Italy. Filed July 31, 1918.

La Milanese

No claim is made to the words "La Milanese" apart from the mark as shown in the drawing.
Particular description of goods.—Hones Made of Corindone, (Corundum.)
Claims use since June 15, 1918.

Ser. No. 112,446. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIETÀ CERAMICA RICHARD-GINORI, Milan, Italy. Filed July 31, 1918.

La Milanese

No claim is made to the words "La Milanese" apart from the mark as shown in the drawing.
Particular description of goods.—Hones Made of Carborundum.
Claims use since June 15, 1918.

Ser. No. 112,954. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Aug. 31, 1918.



Particular description of goods.—Fish Rods, Reels, Lines, Floats, Sinkers, Leaders, Hooks; Preserved and Artificial Minnows, Frogs, and Pork-Rind; Artificial Shiners, Flies, Worms, Grubs, Grasshoppers, Crabs, and Wabblers; Spoons, Spinners, Tackle-Boxes, Hook-Extractors, Fish-Stringers, Fish-Baskets, Fish-Buckets, Spears, Landing-Nets, Fish-Nets, Seines, Head-Nets, Leader-Boxes, Rod-Cases, Rod-Mountings, Reel-Cases; Split Shot for Fish-Lines, for Nets, and for Seines; Canned and Bottled Salmon Eggs for Bait, Scalers, Fish-Hook Holders, Minnow-Traps, Frog-Boxes, and Boxes for Bait.
Claims use since January, 1918.

Ser. No. 114,152. (CLASS 39. CLOTHING.) E. R. DEPUTY COMPANY, INC., Lincoln, Nebr. Filed Nov. 13, 1918.



The background and figure being blue and the words yellow, no claim being made for the words "Overalls," "For Men of Muscle," "Lot," and "Size," and no claim being made for the pictorial illustration of a man in overalls apart from its relation to other features shown in the specimens.
Particular description of goods.—Overalls.
Claims use since March, 1918.

Ser. No. 115,026. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HENRY R. HOFFELD, Buffalo, N. Y. Filed Jan. 7, 1919.

BUFFALO BULL PATCH



I disclaim the words "Patch," "Trade Mark," and "Self Vulcanizing" shown on the drawing and also disclaim the representation of a tire thereon.
Particular description of goods.—Patches for Repairing Inner Tubes of Tires and other Repair Uses, Such as Patching Holes in Rubber Hot-Water Bags and Rubber Footwear.
Claims use since Dec. 27, 1918.

Ser. No. 116,650. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) E-JAY-R-MFG. CO., Baltimore, Md. Filed Mar. 17, 1919.

TIS

Particular description of goods.—Cleaning, Polishing, and Preserving Dressings for the Following Articles—Namely, Boots, Shoes, Gloves, Belts, and the Like.
Claims use since Jan. 1, 1914.

Ser. No. 116,837. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GOODALL WORSTED CO., Sanford, Me., and New York, N. Y. Filed Mar. 24, 1919.

The Palm Beach Mills

No claim is made to the exclusive use of the words "The Mills" apart from the words "Palm Beach."
Particular description of goods.—Woolen Piece Goods, Mohair Piece Goods, and Piece Goods of Cloth Made of Combinations of Mohair and Cotton, Mohair, Wool, and Cotton, Alpaca and Cotton, Mohair, Silk, and Cotton, Mohair, Artificial Silk, and Cotton, Wool and Cotton, Worsted and Cotton.
Claims use since Jan. 1, 1909.

Ser. No. 118,275. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE ROTARY TIRE AND RUBBER CO., Zanesville, Ohio. Filed May 8, 1919.

ROTARY

Particular description of goods.—Rubber Vehicle-Tires and Inner Tubes.
Claims use since March, 1917.

Ser. No. 118,355. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) PETER SANGOFF, Worcester, Mass. Filed May 10, 1919.



No claim is made to the exclusive use of the representation of the wheel apart from the mark shown in the drawing.
Particular description of goods.—Antiskidding Rubber Tires.
Claims use since Oct. 1, 1918.

Ser. No. 118,378. (CLASS 38. PRINTS AND PUBLICATIONS.) FARMER & BREEDER, Sioux City, Iowa. Filed May 12, 1919.



In the drawing the section lining is for shading purposes only.
Particular description of goods.—A Periodical Magazine Published Semimonthly Throughout the Year.
Claims use since Jan. 1, 1910.

Ser. No. 118,452. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES G. SUMMERS & CO., INC., Baltimore, Md. Filed May 13, 1919.

TRUSTY FRIEND

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since the year 1895.

Ser. No. 118,616. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France. Filed May 17, 1919.

ARGENTIL

Particular description of goods.—A Liquid Polish for Cleaning and Polishing All Metals, More Particularly Silver-Plate.
Claims use since May, 1915.

Ser. No. 118,619. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France. Filed May 17, 1919.



No right to the exclusive use of the printed matter on the mark is claimed, with the exception of "Lion Noir," and the particular arrangement of the printed elements with relation to the arbitrary elements of the mark.
Particular description of goods.—Blackings, Polishes, and Creams for All Kinds of Leather Articles.
Claims use since February, 1918.

Ser. No. 118,623. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France. Filed May 17, 1919.

STELLA

Particular description of goods.—A Paste or Product for Polishing Metals.
Claims use since April, 1902.

Ser. No. 118,624. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France. Filed May 17, 1919.



No claim is made to the exclusive right to the words "Metal Polish, Product, Registered Trade-Mark, Paris, Montrouge," appearing in the mark.
Particular description of goods.—A Paste or Product for Polishing Metals.
Claims use since February, 1918.

Ser. No. 118,626. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France. Filed May 17, 1919.



No claim is made to the exclusive right to the use of the words "Stove and Range Polish, Fire-Resisting, Product, Registered Trade-Mark, Paris, Montrouge," or to representations of containers aside from the arbitrary display thereof as portion of the present mark.
Particular description of goods.—A Paste or Polish for Stoves, Ranges, and Pig-Iron Ware.
Claims use since February, 1918.

Ser. No. 118,707. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROSNER & KANNER, New York, N. Y. Filed May 19, 1919.

ROSKANO

Particular description of goods.—Chocolates.
Claims use since Mar. 1, 1919.

Ser. No. 118,841. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) M. G. SCOVILLE SONS COMPANY, Ogden, Utah. Filed May 23, 1919.



Particular description of goods.—Brooms.
Claims use since May 1, 1919.

Ser. No. 118,850. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) M. G. SCOVILLE SONS COMPANY, Ogden, Utah. Filed May 23, 1919.



Particular description of goods.—Brooms.
Claims use since May 1, 1919.

Ser. No. 118,853. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) M. G. SCOVILLE SONS COMPANY, Ogden, Utah. Filed May 23, 1919.



Particular description of goods.—Brooms.
Claims use since May 1, 1919.

Ser. No. 118,930. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE PAN-AMERICAN RUBBER CO., Milwaukee, Wis. Filed May 26, 1919.

PARCO

Particular description of goods.—Vehicle-Tires of Rubber.
Claims use since May 15, 1919.

Ser. No. 118,947. (CLASS 39. CLOTHING.) WILLIAM A. WITHERS, Elizabethtown, Pa. Filed May 26, 1919.



No claim is made to the exclusive use of the expressions "World Around Winner" and "Will Always Wear" apart from their connection with the mark as shown.
Particular description of goods.—Shoes for Men and Boys, Made of Leather and a Combination of Leather and Fabric.
Claims use since Jan. 1, 1919.

Ser. No. 119,032. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) C. DAMHORST SODA WATER CO., St. Louis, Mo. Filed May 29, 1919.



Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drink.
Claims use since February, 1917.

Ser. No. 119,089. (CLASS 10. FERTILIZERS.) SECURITY CEMENT & LIME CO., Hagerstown, Md. Filed May 31, 1919.

HYDRA-CALCITE

Particular description of goods.—Calcareous Composition for Soil Improvement.
Claims use since the fall of 1916.

Ser. No. 119,233. (CLASS 2. RECEPTACLES.) JOSEPH D. FARKAS, New York, N. Y. Filed June 5, 1919.

JIFFY LOCK

No claim being made to the word "Lock" apart from the mark shown in the drawing.
Particular description of goods.—Bathing-Suit Bags of Waterproof Material.
Claims use since May 1, 1919.

Ser. No. 119,264. (CLASS 39. CLOTHING.) DENZER, GOODHART & CO., New York, N. Y. Filed June 6, 1919.



Particular description of goods.—Men's Hats.
Claims use since January, 1909.

Ser. No. 120,010. (CLASS 37. PAPER AND STATIONERY.) HARRY CECIL MITCHELL, New York, N. Y. Filed June 27, 1919.

NOVLART

Particular description of goods.—Outfits for Teaching and Practice of Drawing, Consisting of Stencils, Specially-Prepared Cards, Colored Powders, Felt Pads for Applying the Powders, and Rubber Erasers.
Claims use since May 17, 1919.

Ser. No. 120,069. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) RAINIER PRODUCTS COMPANY, Seattle, Wash. Filed June 28, 1919.

Malt Rainier

No claim being made to the word "Malt" apart from the mark shown.
Particular description of goods.—A Malt Cereal Beverage Containing Less Than One-Half Per Cent. Alcohol.
Claims use since June 1, 1919.

Ser. No. 120,436. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) SURETY TIRE & RUBBER COMPANY, St. Louis, Mo. Filed July 10, 1919.

SURETY

Particular description of goods.—Inner Tubes for Pneumatic Tires.
Claims use since Apr. 15, 1919.

Ser. No. 120,575. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MID WEST PRODUCTS COMPANY, Milwaukee, Wis. Filed July 15, 1919.

Cider-Ola

No claim being made to the word "Cider" apart from the mark shown in drawing.

Particulad description of goods.—Non-Alcoholic Non-Cereal Maltless Beverage Used as a Soft Drink.

Claims use since May 27, 1920.

Ser. No. 120,600. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) W. H. CHAPLIN & Co., LIMITED, London, England. Filed July 16, 1919.

OCEAN WAVE

Particular description of goods.—Rum.

Claims use since Jan. 25, 1897.

Ser. No. 120,923. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) H. W. McCANDLESS & COMPANY, New York, N. Y., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed July 25, 1919.

McCANDLESS MINIATURE WESTINGHOUSE

No claim being made to the words "McCandless Miniature Westinghouse, Trade Mark" or the representation of an electric incandescent lamp apart from the mark shown in the drawing.

Particular description of goods.—Incandescent Electric Lamps.

Claims use since 1902.

Ser. No. 120,986. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DE NORDISKE FABRIKER, DE-NO-FA, AKTIESELSKAB, Christiania, Norway. Filed July 28, 1919.

Margarit,

Particular description of goods.—Refined and Unrefined Fats Produced by the Hydrogenation of Vegetable and Animal Oils and Fats Used as Paint and Varnish Vehicles and Driers.

Claims use since September, 1912.

Ser. No. 120,987. (CLASS 15. OILS AND GREASES.) DE NORDISKE FABRIKER, DE-NO-FA, AKTIESELSKAB Christiania, Norway. Filed July 28, 1919.

Margarit,

Particular description of goods.—Refined and Unrefined Fats Produced by the Hydrogenation of Vegetable and Animal Oils and Fats Used for Fuel, Illumination, and Lubricating Purposes.

Claims use since September, 1912.

Ser. No. 121,111. (CLASS 39. CLOTHING.) GOODMAN & Co., Brooklyn, N. Y. Filed July 30, 1919.

GRATE-CLOZ

No claim is made for that portion of the trade-mark consisting of the word "Cloz" except as part of the complete trade-mark.

Particular description of goods.—Youths' and Boys' Ready-Made Suits Consisting of Coats and Knickerbockers and Coats and Vests and Trousers of Woolen, Mixed, and Cotton Goods.

Claims use since about June 15, 1919.

Ser. No. 121,336. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EASY WASH LAUNDRY TABLET CO., Tyrone, Pa. Filed Aug. 7, 1919.

E-Z-W

Particular description of goods.—Laundry-Tablets for Washing Purposes.

Claims use since June 14, 1918.

Ser. No. 121,662. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLINTON ELLIOTT, New York, N. Y. Filed Aug. 14, 1919.

Neighborhood

Particular description of goods.—Candies.

Claims use since July 1, 1919.

Ser. No. 121,683. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED & GLOBE RUBBER COMPANY, Trenton, N. J. Filed Aug. 14, 1919.

Globestos

Particular description of goods.—Brake-Linings.

Claims use since March, 1919.

Ser. No. 121,795. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE THOMSON-DIGGS Co., Sacramento, Calif. Filed Aug. 18, 1919.

Lucky Strike

Particular description of goods.—Copper Trolling-Lines, Spinners, Artificial Minnows, Leader-Boxes, Disgorgers, Gaff-Hooks, Minnow-Traps, Bait-Boxes, Sinkers, Swivels, Fishing-Reels, Hooks with Gut Leaders, Trout-Flies, Spoon Baits, Pork-Rind Minnows and Baits, Fishing-Baskets, Fish-Spears, Fishing-Nets, Minnow-Buckets; Salmon-Eggs, (for Use as Bait;) Fishing-Lines, Ringed Hooks, Leaders, Rubber and Insect Baits, Fly-Hooks, Fly-Boxes, Canvas Creels, Fishing-Basket Straps, Minnow-Seines, Tackle-Boxes, Cork Floats, Furnished Lines.

Claims use since May 4, 1919.

Ser. No. 121,850. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TURNBULL ELECTRICAL MANUFACTURING COMPANY, INC., New York, N. Y. Filed Aug. 20, 1919.



No claim being made to the representation of an electric lamp apart from the mark shown.

Particular description of goods.—Tungsten and Nitrogen Incandescent Electric Lamps of Various Sizes and Shapes.

Claims use since June 7, 1919.

Ser. No. 122,532. (CLASS 37. PAPER AND STATIONERY.) GILBERT PAPER COMPANY, Menasha, Wis. Filed Sept. 10, 1919.



Particular description of goods.—Writing-Paper.

Claims use since June 11, 1918.

Ser. No. 122,717. (CLASS 39. CLOTHING.) MAXINE MANUFACTURING COMPANY, Chicago, Ill. Filed Sept. 15, 1919.

Maxine

Particular description of goods.—Ladies', Misses', and Children's Blouses, Outer Waists, and Shirt-Waists.

Claims use since June 19, 1918.

Ser. No. 122,756. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BRECHT CANDY Co., Denver, Colo. Filed Sept. 16, 1919.



No claim being made to the words "The Sign of Good Chocolates," apart from the mark shown.

Particular description of goods.—Candies.

Claims use since Oct. 15, 1917.

Ser. No. 123,377. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARRENSBURG CANNING COMPANY, Warrensburg, Ill. Filed Oct. 2, 1919.

RANCH

Particular description of goods.—Canned Sugar-Corn.

Claims use since October, 1910.

Ser. No. 123,524. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PRICE & LEE Co., New Haven, Conn. Filed Oct. 7, 1919.



The mark is lined for red.

Particular description of goods.—City Guide-Books.

Claims use since Sept. 25, 1919.

Ser. No. 123,587. (CLASS 38. PRINTS AND PUBLICATIONS.) THE RIDGWAY COMPANY, New York, N. Y. Filed Oct. 9, 1919.

ROMANCE

The lines of which indicate shading.

Particular description of goods.—A Monthly Magazine.

Claims use since Sept. 22, 1919.

Ser. No. 123,748. (CLASS 37. PAPER AND STATIONERY.) W. J. MAY & Co., LIMITED, East Twickenham, England. Filed Oct. 13, 1919.



The words "The Pen House" being hereby disclaimed apart from the other features of the mark shown.

Particular description of goods.—Fountain-Pens, Steel Pens, Stylographic Pens, Lead-Pencils, Magazine-Pencils Not Made of or Plated with Precious Metal, and Writing-Paper.

Claims use since November, 1917.

Ser. No. 123,752. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio. Filed Oct. 13, 1919.

National

Particular description of goods.—Combined Electrical Printing or Marking and Communicating System and Apparatus and Parts Thereof.
Claims use since Feb. 9, 1905.

Ser. No. 124,071. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HOMER FURNACE COMPANY, Homer, Mich. Filed Oct. 22, 1919.

STROKEL

Particular description of goods.—Coal, Wood, and Gas Furnaces.
Claims use since Jan. 15, 1919.

Ser. No. 124,086. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) DELAWARE ELECTRIC & SUPPLY CO., Wilmington, Del. Filed Oct. 20, 1919.

DELARE

Particular description of goods.—Rubber, Leather, Canvas, and Balata Belting, Rubber and Metallic Hose, Steam and Hydraulic Packing, and Pneumatic Tires, said Packing and Tires Being Formed of Composition Rubber and Duck.
Claims use since about 1889.

Ser. No. 124,223. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE MEPHISTO PRODUCTS COMPANY, Fort Wayne, Ind. Filed Oct. 27, 1919.

Rug-nu

Particular description of goods.—Rug, Carpet, and Tapestry Cleaning Compounds.
Claims use since Oct. 21, 1919.

Ser. No. 124,675. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VANITY FAIR SILK MILLS, Reading, Pa. Filed Nov. 7, 1919.

Vanity Fair

Particular description of goods.—Silk Cloth in the Piece.
Claims use since Oct. 5, 1916.

Ser. No. 124,677. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BLESSING MFG. CO., New York, N. Y. Filed Nov. 8, 1919.

SUNKIST

Particular description of goods.—Electric Fruit-Juice Extractors.
Claims use since July 30, 1919.

Ser. No. 124,682. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) GENERAL GAS LIGHT CO., Kalamazoo, Mich. Filed Nov. 8, 1919.

Radiantfire

Particular description of goods.—Gas-Stoves.
Claims use since Oct. 1, 1916.

Ser. No. 124,768. (CLASS 39. CLOTHING.) THE SHOECRAFT SHOP, INC., New York, N. Y. Filed Nov. 11, 1919.

SHOE CRAFT

Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, Slippers, and Sandals Composed of Leather, Fabric, or Rubber, or Combination of Such Materials.
Claims use since January, 1913.

Ser. No. 124,827. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed Nov. 13, 1919.



No claim being made to the exclusive use of the words "Ever Ready Shaving Brushes" apart from the mark as shown in the drawing.
Particular description of goods.—Shaving-Brushes.
Claims use since May 1, 1917.

Ser. No. 125,120. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL LICORICE COMPANY, New York, N. Y. Filed Nov. 20, 1919.

INDIAN PLUG

Particular description of goods.—Licorice Confections.
Claims use since 1896.

Ser. No. 125,278. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) FR. EISINGER FILS, Basel, Switzerland. Filed Nov. 25, 1919.

RE-SPI-RO

Particular description of goods.—Apparatus for Evaporating, Distilling, Condensing, Cooling, Moistening, and Improving Air.
Claims use since October, 1918.

Ser. No. 125,366. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CALIFORNIA GRAPE PRODUCTS CORP., Bloomfield, N. J. Filed Nov. 28, 1919.

Drywine

Consisting of the word "Drywine."
Particular description of goods.—Non-Intoxicating Beverages—viz., Non-Alcoholic Unfermented Beverages in Which No Fermentation Takes Place During Manufacture or During Aging.
Claims use since Nov. 22, 1919.

Ser. No. 125,722. (CLASS 38. PRINTS AND PUBLICATIONS.) OSCAR E. OIE, Munising, Mich. Filed Dec. 8, 1919.

Oscar E. Oie's
Easy Notifier

The name "Oscar E. Oie" appearing on the drawing as a part of the mark being a facsimile signature of the applicant and the words "Easy Notifier" being distinctively displayed in facsimile handwriting of the applicant, exclusive use of the words "Easy" and "Notifier" not being claimed apart from the mark shown.
Particular description of goods.—Printed Post or Similar Cards Used in Notifying Members of Fraternal and Similar Organizations of Meetings, etc.
Claims use since Oct. 1, 1919.

Ser. No. 125,901. (CLASS 38. PRINTS AND PUBLICATIONS.) MAYER BROTHERS, Chicago, Ill. Filed Dec. 12, 1919.

Your Business Booster

Particular description of goods.—A Catalogue Commonly Known as a House Organ.
Claims use since Jan. 10, 1916.

Ser. No. 125,969. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAGE & SHAW, INC., Cambridge, Mass. Filed Dec. 13, 1919. Under ten-year proviso.

The Candy of Excellence

Particular description of goods.—Candy.
Claims use since May 15, 1892.

Ser. No. 126,105. (CLASS 39. CLOTHING.) COOPER, COATS & CASEY DRY GOODS CO., Los Angeles, Calif., and New York, N. Y. Filed Dec. 16, 1919.

California Maid

Particular description of goods.—Dresses and Aprons for Women and Children.
Claims use since July 1, 1919.

Ser. No. 126,481. (CLASS 39. CLOTHING.) M. N. MAYEHOFF & CO. INCORPORATED, Norwalk, Conn. Filed Dec. 26, 1919.

GOODWILL

Particular description of goods.—Men's, Women's, and Children's Silk, Linen, and Cotton Starched and Soft Separate Collars.
Claims use since Dec. 1, 1919.

Ser. No. 126,903. (CLASS 38. PRINTS AND PUBLICATIONS.) A. J. HOLMAN COMPANY, Philadelphia, Pa. Filed Jan. 7, 1920.

GEM

Consisting of the word "Gem."
Particular description of goods.—Is a Particular Edition of the New Testament as Printed and Bound by Us for Sale to the Trade and Public.
Claims use since Feb. 15, 1918.

Ser. No. 126,921. (CLASS 38. PRINTS AND PUBLICATIONS.) BROWNING & SANDERS, Springfield, Mo. Filed Jan. 8, 1920.

OWL STAMP



No claim is made for the use of the word "Stamp" apart from the mark shown in the drawing.
Particular description of goods.—Trading-Stamps.
Claims use since Nov. 17, 1919.

Ser. No. 126,926. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHARD FRANK, New York, N. Y. Filed Jan. 8, 1920.

Supervan

Particular description of goods.—Flavoring Substance—Namely, Flavoring-Powders.
Claims use since Aug. 1, 1919.

Ser. No. 127,018. (CLASS 38. PRINTS AND PUBLICATIONS.) TEXTILE PUBLISHING COMPANY, New York, N. Y. Filed Jan. 10, 1920.

TOYLAND

Particular description of goods.—Section of a Periodical, Said Section Being Issued Monthly.
Claims use since Dec. 27, 1919.

Ser. No. 127,021. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) VICTORY HAMMERED PISTON RING COMPANY, Newark, N. J. Filed Jan. 10, 1920.

VICTORY

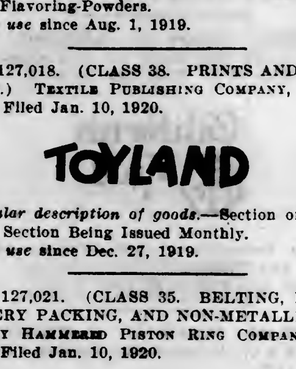
Particular description of goods.—Piston-Rings.
Claims use since July 15, 1918.

Ser. No. 127,042. (CLASS 39. CLOTHING.) H. E. DAVIS CO., Freeport, Me. Filed Jan. 12, 1920.

Nurses Pan-a-cea

Particular description of goods.—Women's Leather Shoes.
Claims use since 1896.

Ser. No. 127,087. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUNTER MFG. & COM. CO., New York, N. Y. Filed Jan. 13, 1920.



The lining shown in the drawing merely representing shading.
Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 31, 1919.

Ser. No. 127,102. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) C. F. ADAMS COMPANY, Erie, Pa., and Chicago, Ill. Filed Jan. 14, 1920.

ATLANTIC

Particular description of goods.—Electric Clothes-Washing Machines.
Claims use since on or about Jan. 1, 1919.

Ser. No. 127,147. (CLASS 38. PRINTS AND PUBLICATIONS.) ZELLERBACH PAPER COMPANY, San Francisco, Calif. Filed Jan. 14, 1920.

The INFORMANT

Particular description of goods.—A House Organ Appearing Monthly and Presenting Paper News, Mill Trade Customs, New Lines, Sales Aids, Suggestions, and Ideas Pertinent to the Printing Trade.
Claims use since July 1, 1918.

Ser. No. 127,221. (CLASS 31. FILTERS AND REFRIGERATORS.) ISAAC F. STEVENS, Nashua, N. H. Filed Jan. 16, 1920.

WHITE MOUNTAIN GRAND

Particular description of goods.—Refrigerators.
Claims use since December, 1895.

Ser. No. 127,619. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNITED DRUG COMPANY, Boston, Mass. Filed Jan. 26, 1920.



The words "Olive Oil Castile" are hereby disclaimed.
Particular description of goods.—Castile Soap.
Claims use since December, 1919.

Ser. No. 127,870. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ADOLPH REINSBERG, Salt Lake City, Utah. Filed Feb. 2, 1920

MILESTONE

Particular description of goods.—Tires and Tire-Casings Composed Wholly or Partially of Rubber.
Claims use since on or about Jan. 13, 1920.

Ser. No. 127,878. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE GEORGE WIEDEMANN COMPANY, Newport, Ky. Filed Feb. 2, 1920.



No claim is made for a trade-mark upon the words "Non Beverage Grain Alcohol" apart from the mark as shown in the accompanying drawing.
Particular description of goods.—Non-Beverage Grain-Alcohol.
Claims use since Jan. 2, 1920.

Ser. No. 127,913. (CLASS 46. FOODS AND INGREDIENTS.) THE E. C. HARLEY COMPANY, Dayton, Ohio. Filed Feb. 3, 1920.

JAMOKA

Particular description of goods.—Coffee.
Claims use since Jan. 15, 1920.

Ser. No. 128,016. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PENTON PUBLISHING COMPANY, Cleveland, Ohio. Filed Feb. 5, 1920.

POWER BOATING

Particular description of goods.—A Monthly Publication.
Claims use since December, 1907.

Ser. No. 128,017. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PENTON PUBLISHING COMPANY, Cleveland, Ohio. Filed Feb. 5, 1920.

DAILY IRON TRADE AND METAL MARKET REPORT

Particular description of goods.—A Daily Business Newspaper.
Claims use since Feb. 15, 1917.

Ser. No. 128,018. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PENTON PUBLISHING COMPANY, Cleveland, Ohio. Filed Feb. 5, 1920.

The Iron Trade Review

The lines are merely for shading.
Particular description of goods.—A Weekly Publication.
Claims use since Sept. 1, 1913.

Ser. No. 128,020. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PENTON PUBLISHING COMPANY, Cleveland, Ohio. Filed Feb. 5, 1920.

THE MARINE REVIEW

Particular description of goods.—A Monthly Publication.
Claims use since Jan. 11, 1906.

Ser. No. 128,174. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BRONISLAW J. STANISLAWSKI, Conshohocken, Pa. Filed Feb. 9, 1920.



B. J. Stanislawski

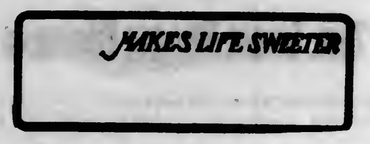
The portrait shown is that of the applicant and the signature is a facsimile of that of the applicant.
Particular description of goods.—Waterproof Shoe-Paste.
Claims use since June 1, 1919.

Ser. No. 128,253. (CLASS 38. PRINTS AND PUBLICATIONS.) TIFFANY AND COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & CO.

Particular description of goods.—Printed Books and Visiting-Cards, Announcements, Invitations, Menus, Greeting-Cards, Certificates, Completely Printed or Engraved Dance-Orders and Diplomas, Labels Upon Which Book-Plates Have Been Printed or Engraved, Programs, and Calendars.
Claims use since 1892.

Ser. No. 128,369. (CLASS 46. FOODS AND INGREDIENTS OF FOOD.) PALMER CANDY CO., Sioux City, Iowa. Filed Feb. 13, 1920.



Particular description of goods.—Chocolate-Covered Cherries.
Claims use since December, 1916.

Ser. No. 128,379. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GILES T. YOUNG, Philadelphia, Pa. Filed Feb. 13, 1920.

CLIMAX

Particular description of goods.—Hair-Straightener Paste.
Claims use since 1908.

Ser. No. 128,390. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & CO. INC., New York, N. Y. Filed Feb. 14, 1920.

CF
SV

Particular description of goods.—Marble and Stone.
Claims use since August, 1895.

Ser. No. 128,391. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & CO. INC., New York, N. Y. Filed Feb. 14, 1920.

CF
SVX

Particular description of goods.—Marble and Stone.
Claims use since August, 1895.

Ser. No. 128,392. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & CO., INC., New York, N. Y. Filed Feb. 14, 1920.

SCM

Particular description of goods.—Marble and Stone.
Claims use since about the middle of the year 1906.

Ser. No. 128,473. (CLASS 38. PRINTS AND PUBLICATIONS.) A. STEIN & COMPANY, Chicago, Ill. Filed Feb. 16, 1920.

GETTING TOGETHER

Particular description of goods.—A Publication Issued Quarterly.
Claims use since on or about Jan. 1, 1920.

Ser. No. 128,628. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 19, 1920.

STAN-KNOX

Particular description of goods.—Trunks, Suitcases, and Traveling-Bags.
Claims use since Jan. 1, 1920.

Ser. No. 128,667. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE DAVIS SEWING MACHINE CO., Dayton, Ohio. Filed Feb. 20, 1920.



Particular description of goods.—Bicycles.
Claims use since Dec. 4, 1919.

Ser. No. 128,701. (CLASS 39. CLOTHING.) MORRIS ROTHKOPF, New York, N. Y. Filed Feb. 20, 1920.

RETEX

The lining being for shading and not for color.
Particular description of goods.—Underwear—Namely, Shirts, Drawers, and Union-Suits for Men and Women, Made of Cotton and of Cotton and Woolen Textile Fabrics; Night-Shirts, Work and Dress Shirts, and Pajamas.
Claims use since April, 1917.

Ser. No. 128,739. (CLASS 37. PAPER AND STATIONERY.) CHARLES D. ROBERTS, Pittsburgh, Pa. Filed Feb. 21, 1920.



I hereby disclaim, apart from the mark shown in the drawing, the words "Double AA Quality" and also the representation of a pen.
Particular description of goods.—Metallic Pen-Points.
Claims use since Mar. 25, 1918.

Ser. No. 128,740. (CLASS 37. PAPER AND STATIONERY.) CHARLES D. ROBERTS, Pittsburgh, Pa. Filed Feb. 21, 1920.



I hereby disclaim, apart from the mark shown in the drawing, the words "Silver Gloss" and also the representation of a pen.
Particular description of goods.—Metallic Pen-Points.
Claims use since Feb. 18, 1919.

Ser. No. 128,776. (CLASS 38. PRINTS AND PUBLICATIONS.) THE HABERDASHER CO., New York, N. Y. Filed Feb. 24, 1920.

THE WIGGLE-NOSE TALES

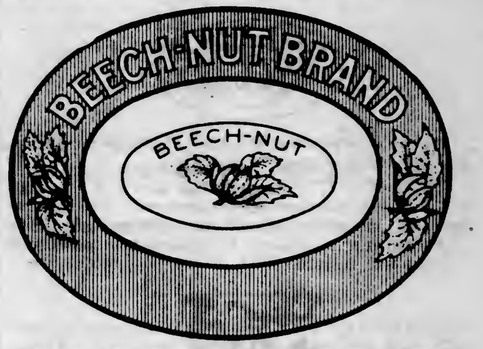
Particular description of goods.—Section of a Monthly Publication.
Claims use since Feb. 11, 1920.

Ser. No. 128,810. (CLASS 39. CLOTHING.) WINE BROTHERS AND COMPANY, Detroit, Mich. Filed Feb. 24, 1920.



No claim is made to the representation of the pocket except when used in connection with the words "Harwin" and "Sta-Poket."
Particular description of goods.—Trousers.
Claims use since Sept. 18, 1919.

Ser. No. 128,825. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed Feb. 24, 1920.



The oval band being in red and the word "Brand" being disclaimed apart from the mark as shown.
Particular description of goods.—Birch-Beer, Root-Beer, and Sarsaparilla.
Claims use since Oct. 14, 1919.

Ser. No. 128,867. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SABERTON MFG. CO., Tampa, Fla. Filed Feb. 24, 1920.



Comprising a panel, the representation of a landscape with the words "Blue Sky Soap" in the clouds thereof, and two aeroplanes floating therein, and the representation of a number of buildings, with vessels in the foreground, and the words "Saberton Mfg. Co., Tampa, Florida, U. S. A.," no claim being made to the exclusive use of the word "Soap" or the geographical words and abbreviation "Tampa, Florida, U. S. A.," apart from the mark as shown in the drawing.
Particular description of goods.—Soap.
Claims use since Oct. 1, 1919.

Ser. No. 128,906. (CLASS 38. PRINTS AND PUBLICATIONS.) TEXTILE PUBLISHING COMPANY, New York, N. Y. Filed Feb. 25, 1920.

ECONOMIST
SHORT CUT

Particular description of goods.—Buyer's Directory Issued Every Six Months.
Claims use since Oct. 10, 1906.

Ser. No. 128,907. (CLASS 38. PRINTS AND PUBLICATIONS.) TEXTILE PUBLISHING COMPANY, New York, N. Y. Filed Feb. 25, 1920.

SHOE ECONOMIST

Particular description of goods.—Section of a Periodical, Said Section Being Issued Every Four Weeks.
Claims use since Oct. 14, 1916.

Ser. No. 129,042. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CASING CO., San Francisco, Calif. Filed Mar. 1, 1920.

ECLIPSE CC

Particular description of goods.—Colorings for Sausage-Casings and Seasonings for Sausage.
Claims use since Aug. 1, 1919.

Ser. No. 129,199. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JEROME A. WALSH, New York, N. Y. Filed Mar. 3, 1920.

Ora-Le

Particular description of goods.—Non-Alcoholic Maltless Beverage Sold as a Soft Drink.
Claims use since Jan. 19, 1920.

Ser. No. 129,202. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE CLEVELAND FRUIT JUICE COMPANY, Cleveland, Ohio. Filed Mar. 4, 1920.

Buckeye

Particular description of goods.—Root-Beer and the Syrup Therefor.
Claims use since about 1894.

Ser. No. 129,212. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERNATIONAL COMMITTEE OF YOUNG MEN'S CHRISTIAN ASSOCIATIONS, New York, N. Y. Filed Mar. 4, 1920.

BOOKS WITH PURPOSE AP

No claim is made to the words "Books with Purposes" apart from the mark shown in the drawing.
Particular description of goods.—Printed Books, Booklets, and Pamphlets.
Claims use since June 1, 1917.

Ser. No. 129,276. (CLASS 39. CLOTHING.) D. NUSBAUM & Co., New York, N. Y. Filed Mar. 5, 1920.

MAID-N-ONE

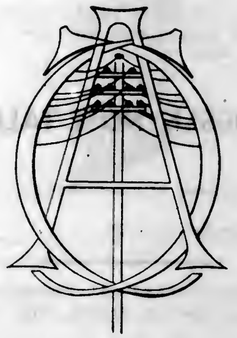
Particular description of goods.—Ladies' Knit Bathing-Suits and Ladies' One-Piece Union-Suits.
Claims use since Feb. 4, 1920.

Ser. No. 129,416. (CLASS 10. FERTILIZERS.) CHAS. W. PRIDDY & COMPANY, INC., Norfolk, Va. Filed Mar. 8, 1920.

Quality and Service

The words "Quality and Service" being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Fertilizer, Agricultural Lime, Land-Plaster, and Agricultural Salt.
Claims use since Jan. 1, 1920.

Ser. No. 129,619. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN CODE COMPANY, INC., New York, N. Y. Filed Mar. 13, 1920.



Particular description of goods.—Code-Books.
Claims use since Jan. 1, 1920.

Ser. No. 129,677. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) WILLIAM H. RICHARDS, Knoxville, Tenn. Filed Mar. 13, 1920.

BALLMATIC

Particular description of goods.—Pneumatic Cells for Filling Pneumatic Tires.
Claims use since Feb. 23, 1920.

Ser. No. 129,784. (CLASS 38. PRINTS AND PUBLICATIONS.) JABURG-MILLER CO., INC., New York N. Y. Filed Mar. 16, 1920.

EQUIPMENT QUIPS

Particular description of goods.—Monthly Periodical.
Claims use since September, 1917.

Ser. No. 129,878. (CLASS 15. OILS AND GREASES.) FISKE BROTHERS REFINING CO., New York, N. Y. Filed Mar. 18, 1920.

FISKE'S CRYSTAL LUBRICANT

No claim being made to the exclusive use of the words "Crystal Lubricant" apart from the mark as shown in the drawing.
Particular description of goods.—Lubricating Oils and Greases.
Claims use since Jan. 19, 1920.

Ser. No. 129,992. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WEST END BREWING CO., Utica, N. Y. Filed Mar. 20, 1920.

QUAKER

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Jan. 1, 1919.

Ser. No. 129,998. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WEST END BREWING CO., Utica, N. Y. Filed Mar. 20, 1920.

LOGANBERO

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Aug. 1, 1919.

Ser. No. 129,999. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WEST END BREWING CO., Utica, N. Y. Filed Mar. 20, 1920.

SASSA-BRUE

No claim being made to the word "Brue" apart from the mark shown on the drawing.
Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Jan. 1, 1920.

Ser. No. 130,041. (CLASS 37. PAPER AND STATIONERY.) THE JOHN HOBERG CO., Green Bay, Wis. Filed Mar. 22, 1920.

EVERGREEN SPRUCE

No claim being made to the word "Spruce" apart from the mark shown.
Particular description of goods.—Toilet-Paper, Paper Towels, Tissue and Wrapping Paper, also Paper Napkins.
The trade-mark has been continuously used in applicant's business and in the business of its predecessors since Jan. 4, 1898, on toilet-paper only; paper towels, tissue and wrapping paper, and paper napkins since Feb. 10, 1918.

Ser. No. 130,077. (CLASS 15. OILS AND GREASES.) WESTERN OIL REFINING CO., Indianapolis, Ind. Filed Mar. 22, 1920.

Silver Flash

Particular description of goods.—Lubricating-Oil.
Claims use since November, 1919.

Ser. No. 130,114. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GEORGE C. BOULTBEE, Rochester, N. Y. Filed Mar. 23, 1920.

Dri-ade

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Flavoring Compounds for Soft Drinks.
Claims use since about July 20, 1919.

Ser. No. 130,208. (CLASS 15. OILS AND GREASES.) CHELSEA ENGINEERING SALES CORPORATION, New York, N. Y. Filed Mar. 26, 1920.



Particular description of goods.—Candles, Gasolene, Graphite Lubricant; Lubricating-Grease, (Texas:) Oil for Lubricating and Burning, and Tallow for Lubricating.
Claims use since about October, 1918.

Ser. No. 130,216. (CLASS 39. CLOTHING.) SAUL GELARIE & COMPANY, New York, N. Y. Filed Mar. 26, 1920.

Gelairwear

Particular description of goods.—Fabric Gloves and Knitted Underwear for Men, Women, and Children.
Claims use since Feb. 8, 1920.

Ser. No. 130,314. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ARBUTHNOT-STEPHENSON CO., Pittsburgh, Pa. Filed Mar. 29, 1920.

STEEL CITY

Consisting of the words "Steel City."
Particular description of goods.—Suspenders.
Claims use since Feb. 20, 1920.

Ser. No. 130,479. (CLASS 38. PRINTS AND PUBLICATIONS.) JOHNSON, COWDIN AND CO., INC., New York, N. Y. Filed Apr. 1, 1920.

RIBBONOLOGY

Particular description of goods.—Publications Issued Semi-Annually.
Claims use since about January, 1918.

Ser. No. 130,596. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ELIAS JACOBSON, New York, N. Y. Filed Apr. 3, 1920.

VENUS

Particular description of goods.—Pearls.
Claims use since Aug. 30, 1919.

Ser. No. 130,598. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) KALIFORNIA KOLA COMPANY, Los Angeles, Calif. Filed Apr. 3, 1920.

KAL-KOLA

No claim is made to exclusive use of the word "Cola" apart from the mark shown in the drawing.
Particular description of goods.—Non-Intoxicating Non-Cereal Maltless Fruit Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, and Sold as a Soft Drink and Syrups Used in the Making of Beverages.
Claims use since July 21, 1919.

Ser. No. 130,614. (CLASS 38. PRINTS AND PUBLICATIONS.) RAILROAD YARDMASTERS OF AMERICA, Columbus, Ohio. Filed Apr. 3, 1920.

THE
RAILROAD YARDMASTER



Particular description of goods.—A Monthly Publication.
Claims use since the 2d day of December, 1918.

Ser. No. 130,736. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE WORTH-MORE POLISH COMPANY, Chicago, Ill. Filed Apr. 6, 1920.

"WORTH-MORE"

Particular description of goods.—Liquid Polish for Furniture, Automobiles, Floors, and the Like.
The trade-mark has been used continuously in the business of said corporation since Mar. 1, 1920, and in the business of its predecessors, Brainard Ivancovich and American Necessities Manufacturing and Sales Company, since January, 1918, and March, 1919, respectively.

Ser. No. 130,816. (CLASS 5. ADHESIVES. ALBERT C. FISCHER, Chicago, Ill. Filed Apr. 8, 1920.

SERVICISED
LOOK FOR IT ON ALL PURCHASES

No claim is made for the words "Look for It on All Purchases."
Particular description of goods.—Adhesive Cements, Adhesive Mastics, Paper, Cloth, Fabric, Molded Adhesive Strips.
Claims use since Dec. 1, 1918.

Ser. No. 130,873. (CLASS 39. CLOTHING.) BLUM BROS., Chicago, Ill. Filed Apr. 9, 1920.

TRI-TEX
QUALITY
FOR DIVERS REASONS

No claim is made to the use of the word "Quality" apart from the mark shown in the drawing.
Particular description of goods.—Bathing-Caps, Bathing-Shoes, Bathing-Suits, Hockey-Caps; Hose for Men, Women, and Children; Jersey Sweaters, Sweater-Coats; One and Two Piece Undergarments of Knitted, Netted, and Textile Fabrics for Men and Children.
Claims use since Dec. 12, 1919.

Ser. No. 130,979. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) J. E. RHOADS & SONS, Philadelphia, Pa., and Wilmington, Del. Filed Apr. 10, 1920.

GRIP-O-TAN

Particular description of goods.—Flat Leather Belting.
Claims use since Jan. 7, 1920.

Ser. No. 131,021. (CLASS 39. CLOTHING. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Apr. 12, 1920.

KNOX KOLD

Particular description of goods.—Coats, Vests, and Trousers, Including Such Special Articles as Mackinaw Coats and Duck, Mole-Skin Corduroy, Blanket and Sheepskin Lined Coats and Vests, and Leather Vests with and without Leather Sleeves.
Claims use since about Mar. 1, 1920.

Ser. No. 131,067. (CLASS 39. CLOTHING.) EINHORN BROS., Philadelphia, Pa. Filed Apr. 13, 1920.

Selmore

Particular description of goods.—Ladies' Waists and Blouses.
Claims use since about Mar. 1, 1918.

Ser. No. 131,110. (CLASS 27. HOROLOGICAL INSTRUMENTS.) JOSEPH GOTTLIEB, New York, N. Y. Filed Apr. 14, 1920.

Relion

Consisting of the word "Relion."
Particular description of goods.—Watches.
Claims use since Feb. 9, 1920.

Ser. No. 131,254. (CLASS 39. CLOTHING.) THOMAS BROWN & CO. (LEICESTER) LIMITED, Leicester, England. Filed Apr. 17, 1920.

QUEEN MAB

Particular description of goods.—Ladies' Boots, Shoes, and Slippers.
Claims use since May, 1905.

Ser. No. 131,298. (CLASS 15. OILS AND GEASES.) THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Apr. 19, 1920.

LA ESPAÑOLA

No claim being made to the words and abbreviations "Fabricado en Filadelfia, E. U. De A." apart from the mark shown in the drawing. The crossed arrows and the outer irregular borders of the seals are in red.
Particular description of goods.—Candles.
Claims use since July 11, 1916.

Ser. No. 131,381. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALADERO PRODUCTS COMPANY, Atascadero, Calif. Filed Apr. 20, 1920.

"Caladero"

Particular description of goods.—The Following Dried Commodities: Apples, Apricots, Peaches, Prunes, Pears, Soup-Vegetables, Spinach, Beans.
Claims use since Oct. 1, 1918.

Ser. No. 131,429. (CLASS 39. CLOTHING.) S. J. LEVY & SONS, New York, N. Y. Filed Apr. 21, 1920.



The portrait on the drawing is that of Bobby Connelly, the consent to the use of the same having been filed herein. No claim is made to the words "Boy's Hose" apart from the mark shown in the drawing.
Particular description of goods.—Men's and Boys' Hosiery.
Claims use since Apr. 1, 1920.

Ser. No. 131,430. (CLASS 39. CLOTHING.) S. J. LEVY & SONS, New York, N. Y. Filed Apr. 21, 1920.



The portrait on the drawing is that of Fere Scott, the consent to the use of the same having been filed herein. No claim is made to the word "Hosiery" apart from the mark shown in the drawing.

Particular description of goods.—Women's and Misses' Hosiery.

Claims use since Jan. 15, 1920.

Ser. No. 131,435. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MASON, AU & MAGENHEIMER CONF. MFG. CO., Brooklyn, N. Y. Filed Apr. 21, 1920.

Rosie Rings

Particular description of goods.—Candies and Chocolates.

Claims use since Jan. 9, 1920.

Ser. No. 131,504. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KARL SEILER & SONS, Philadelphia, Pa. Filed Apr. 22, 1920.

SEILER'S
YOU'LL FAVOR THE FLAVOR

The pictorial representation of the goods is hereby disclaimed except in connection with the other features of the mark.

Particular description of goods.—Smoked Fish.

Claims use since Apr. 8, 1920.

Ser. No. 131,524. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) FRENCH BROS. CO., Medford, Mass. Filed Apr. 23, 1920.

PONY CLUB

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Jan. 1, 1920.

Ser. No. 131,558. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BENJ. J. BAUM, San Francisco, Calif. Filed Apr. 24, 1920.

ECLAIR

Particular description of goods.—Candy.

Claims use since 1904.

Ser. No. 131,581. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MAGNUS ELECTRIC CO. INC., New York, N. Y. Filed Apr. 24, 1920.

PLUGALL

Particular description of goods.—Connecting-Plugs for Electrical Devices.

Claims use since on or about Mar. 15, 1920.

Ser. No. 131,588. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL CANNERS ASSOCIATION, Washington, D. C. Filed Apr. 24, 1920.

Particular description of goods.—Printed Labels, Pamphlets, Folders, Circulars, Booklets, and Trade Advertising-Cards.

Claims use since Mar. 30, 1920.

Ser. No. 131,603. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) STAYBESTOS MANUFACTURING COMPANY, Philadelphia, Pa. Filed Apr. 24, 1920.

Particular description of goods.—Brake-Linings.

Claims use since January, 1914.

Ser. No. 131,616. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ERNST ZOBEL COMPANY, INC., Brooklyn, N. Y. Filed Apr. 24, 1920.



Particular description of goods.—Turpentine.

Claims use since Nov. 1, 1919.

Ser. No. 131,622. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BROOKE ANDERSON, Chicago, Ill. Filed Apr. 26, 1920.



No claim being made to the representation of a post apart from the mark shown in the drawing.

Particular description of goods.—Metallic Fenceposts.

Claims use since Jan. 3, 1919.

Ser. No. 131,640. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THOMAS H. LEGGE, Elmhurst, Ill. Filed Apr. 26, 1920.

Perfectone

Applicant disclaims exclusive use to the words "Perfect Tone."

Particular description of goods.—Wooden Talking-Machine Needle.

Claims use since about May 5, 1919.

Ser. No. 131,685. (CLASS 37. PAPER AND STATIONERY.) A. J. WHITE LIMITED, New York, N. Y. Filed Apr. 26, 1920.

KERCHETTES

Particular description of goods.—Paper Handkerchiefs.

Claims use since Feb. 2, 1920.

Ser. No. 131,889. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Apr. 30, 1920.

SOAPERIOR

Particular description of goods.—Soap-Dispensers.

Claims use since September, 1918.

Ser. No. 131,973. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. G. KING & CO., Providence, R. I. Filed May 3, 1920.

CEKO

Particular description of goods.—Dental Paste.

Claims use since about Apr. 27, 1920.

Ser. No. 131,975. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE KEYSTONE WATCH CASE COMPANY, Philadelphia, Pa. Filed May 3, 1920. Under ten-year proviso.

Non-pull-out.

Particular description of goods.—Watchcases.

Claims use since January, 1890.

Ser. No. 132,095. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed May 6, 1920.

Manchu

Consisting of the word "Manchu."

Particular description of goods.—Silk, Linen, Woolen, and Cotton Piece Goods and Combinations Thereof.

Claims use since Oct. 15, 1919.

Ser. No. 132,136. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCIAL REFINING CO., Charleston, S. C. Filed May 7, 1920.

CORECO

Particular description of goods.—Vegetable Oils.
Claims use since Apr. 22, 1920.

Ser. No. 132,139. (CLASS 38. PRINTS AND PUBLICATIONS.) FEDERAL MOTOR TRUCK COMPANY, Detroit, Mich. Filed May 7, 1920.

Traffic FEDERAL News

Particular description of goods.—A Monthly Magazine.
Claims use since November, 1914.

Ser. No. 132,152. (CLASS 15. OILS AND GREASES.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed May 7, 1920.

TOWER BRAND



No claim is made to the use of the word "Brand" apart from the mark as shown on the drawing.
Particular description of goods.—Kerosene.
Claims use since April, 1910.

Ser. No. 132,153. (CLASS 15. OILS AND GREASES.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed May 7, 1920.

SPRINGBOK BRAND



No claim is made to the use of the word "Brand" apart from the mark as shown on the drawing.
Particular description of goods.—Kerosene.
Claims use since Jan. 22, 1913.

Ser. No. 132,154. (CLASS 15. OILS AND GREASES.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed May 7, 1920.

CARABAO BRAND



No claim is made to the use of the word "Brand" apart from the mark as shown on the drawing.
Particular description of goods.—Kerosene.
Claims use since January, 1911.

Ser. No. 132,199. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ALBERT PICK & COMPANY, Chicago, Ill. Filed May 8, 1920.

PINKS

Particular description of goods.—Drinking-Straws.
Claims use since Jan. 15, 1920.

Ser. No. 132,365. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) RICHARDSON DRY GOODS CO., St. Joseph, Mo. Filed May 12, 1920.



Particular description of goods.—Embroideries, Dress-Trimming—Namely, Tassels, Medallions, Cords, Braids, Beads, Laces, Small Embroideries, Fringes, Drops, and Similar Articles and Art Linens Cut Out for Specific Purposes.
Claims use since Oct. 15, 1919.

Ser. No. 132,442. (CLASS 38. PRINTS AND PUBLICATIONS.) JOHN W. MASURY & SON, Brooklyn, N. Y. Filed May 14, 1920.

The Square Dealer

Particular description of goods.—A Printed Publication Published Monthly.
Claims use since May 1, 1920.

Ser. No. 132,510. (CLASS 39. CLOTHING.) COHN, GOLDWATER COMPANY, Los Angeles, Calif. Filed May 17, 1920.

Buddie

Particular description of goods.—Boys' Blouses and Shirts.
Claims use since Oct. 10, 1919.

Ser. No. 132,553. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PIERCE FUSE CORPORATION, Buffalo, N. Y. Filed May 17, 1920.

Pierce

Particular description of goods.—Renewable Fuses.
Claims use since Apr. 10, 1920.

Ser. No. 132,599. (CLASS 39. CLOTHING.) JOSEPH FREIDSON, Boston, Mass. Filed May 18, 1920.

DR. CHASE'S CUSHION COMFORT

Particular description of goods.—Shoes.
Claims use since Jan. 1, 1918.

Ser. No. 132,609. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed May 18, 1920.

Queen Quality

Particular description of goods.—Shoe-Laces, and Button-Hooks Not Made of Precious Metal.
Claims use since February, 1898, shoe-laces; April, 1911, shoe-horns and button-hooks.

Ser. No. 132,614. (CLASS 39. CLOTHING.) SIMON MILLINERY SUPPLY CO., San Francisco, Calif. Filed May 18, 1920.

Biltmore

Particular description of goods.—Ladies' Trimmed, Tailored, and Sport Hats.
Claims use since July, 1917.

Ser. No. 132,615. (CLASS 39. CLOTHING.) SIMON MILLINERY SUPPLY CO., San Francisco, Calif. Filed May 18, 1920.

Meadowbrook

Particular description of goods.—Ladies' Trimmed, Tailored, and Sport Hats.
Claims use since January, 1916.

Ser. No. 132,634. (CLASS 39. CLOTHING.) S. FREIBURGER & BRO. CO., INC., Fort Wayne, Ind. Filed May 19, 1920.

ROLLICKERS

Particular description of goods.—Shoes Made of Leather, Canvas, and Rubber.
Claims use since 1917.

Ser. No. 132,646. (CLASS 39. CLOTHING.) JORDAN MARSH COMPANY, Boston, Mass. Filed May 19, 1920.

Tom Boy

Particular description of goods.—Girls' Play-Suits.
Claims use since May 17, 1920.

Ser. No. 132,662. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 19, 1920.

Nation-ALLS

Particular description of goods.—Overalls.
Claims use since Mar. 15, 1920.

Ser. No. 132,669. (CLASS 15. OILS AND GREASES.) TIONA REFINING COMPANY, Philadelphia, Pa. Filed May 19, 1920. Under ten-year proviso.

TIONA

Particular description of goods.—Lubricating-Oils.
Claims use since in or about the year 1891.

Ser. No. 132,809. (CLASS 15. OILS AND GREASES.) ROBERTSON LUBRICANTS COMPANY, Philadelphia, Pa. Filed May 22, 1920.

CERTIFIED

The panels being lined to indicate red.
Particular description of goods.—Lubricating Oils and Greases.
Claims use since April, 1920.

Ser. No. 132,827. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRIPPE, BARKER & CO., New York, N. Y. Filed May 22, 1920.

BLUEBIRD

Particular description of goods.—Nainsooks, Long-Cloths, and Cambrics in the Piece.
Claims use since about May 7, 1920.

Ser. No. 132,836. (CLASS 39. CLOTHING.) ALPERIN, STRAUSS & CO., New York, N. Y. Filed May 24, 1920.

PEN-ROO

Particular description of goods.—Dress, Negligée, and Work Shirts, Pajamas, Collars and Cuffs, Men's Flat Underwear—viz., Two-Piece and Union Suits.
Claims use since Feb. 1, 1920.

Ser. No. 132,879. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MAGNAVOX CO., Oakland, Calif. Filed May 24, 1920.

TELEMEGAFONE

Particular description of goods.—Telephone-Receivers.
Claims use since Aug. 1, 1919.

Ser. No. 132,883. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed May 24, 1920.

OMEGA

Particular description of goods.—Lubricating-Grease.
Claims use since 1919.

Ser. No. 132,922. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HINCK & MULLER, New York, N. Y. Filed May 25, 1920.



LA HAMACA

Particular description of goods.—Cotton Piece Goods.
Claims use since 1918.

Ser. No. 132,924. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HINCK & MULLER, New York, N. Y. Filed May 25, 1920.



Particular description of goods.—Cotton Piece Goods.
Claims use since 1918.

Ser. No. 132,946. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE SANI-KOMB CORPORATION, New York, N. Y. Filed May 25, 1920.

SANI-KOMB
USE ONCE AND THROW AWAY

No claim being made to the exclusive use of the words, "Use Once and Throw Away" apart from the mark as shown in the drawing.
Particular description of goods.—Combs.
Claims use since about April, 1911.

Ser. No. 132,971. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ATWATER KENT MANUFACTURING COMPANY, Philadelphia, Pa. Filed May 26, 1920.

AK

Particular description of goods.—Electrical Ignition Apparatus for Automotive and Internal-Combustion Engines, Induction-Coils, Timers, Interrupters, Distributers, Condensers, and Parts Thereof.
Claims use since on or about Dec. 1, 1919.

Ser. No. 133,033. (CLASS 15. OILS AND GREASES.) VACUUM OIL COMPANY, New York, N. Y. Filed May 27, 1920.

600W

Particular description of goods.—Lubricating-Oils.
Claims use since December, 1888.

Ser. No. 133,117. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VIC MANUFACTURING CORPORATION, Carlstadt, N. J. Filed May 29, 1920.

VIC

Particular description of goods.—Safety-Razors and Parts Thereof and Safety-Razor Blades.
Claims use since May 24, 1920.

Ser. No. 133,144. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE HOBART MANUFACTURING COMPANY, Troy, Ohio. Filed June 1, 1920.

BakersAid

Particular description of goods.—Electrically-Driven Beating and Mixing Machines.
Claims use since Apr. 27, 1920.

Ser. No. 133,379. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SYMMS-BROWNELL MANUFACTURING COMPANY, Sioux Falls, S. D. Filed June 7, 1920.



Particular description of goods.—Spark-Plugs.
Claims use since about Mar. 1, 1918.

Ser. No. 133,384. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SANIPHONE COMPANY, Baltimore, Md. Filed June 7, 1920.

PHONE-SWEET

Particular description of goods.—Mouthpiece Attachments for the Transmitters of Telephones.
Claims use since Jan. 1, 1919.

Ser. No. 133,634. (CLASS 12. CONSTRUCTION MATERIALS.) STOWELL MANUFACTURING CO., Jersey City, N. J. Filed June 12, 1920.

Radiant

Consisting of the word "Radiant."
Particular description of goods.—Roofing-Shingles.
Claims use since Apr. 13, 1920.

Ser. No. 133,757. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) AMERICAN NARROW FABRIC CO., Providence, R. I. Filed June 16, 1920.

FOR GET ME NOT

Particular description of goods.—Shoe-Lacings, Corset-Lacings, Underwear-Lacings, Blouse-Lacings, Galloons, and Braids, All of Which Are Made of Linen, Silk, or Worsted.
Claims use since April, 1919.

Ser. No. 133,963. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WOLF ELIOWITZ, New York, N. Y. Filed June 21, 1920.

RE-NOWN

Particular description of goods.—Hair-Nets.
Claims use since June 1, 1920.

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TRADE-MARK REGISTRATIONS GRANTED

JULY 20, 1920.

133,201. DOOR-RIM LOCKS; DESK, BERTH, AND DRAWER LOCKS; SASH-LOCKS, AND PADLOCKS. THE ADAMS & WESTLAKE COMPANY, Chicago, Ill.
Filed June 2, 1919. Serial No. 119,095. PUBLISHED MARCH 30, 1920.

133,202. CERTAIN NAMED HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. AKTIEBOLAGET ARCA REGULATORER, Stockholm, Sweden.
Filed December 30, 1918. Serial No. 114,873. PUBLISHED MAY 4, 1920.

133,203. SWEATERS, BATHING-SUITS. AMER KNITTING MILLS INC., New York, N. Y.
Filed March 8, 1919. Serial No. 116,400. PUBLISHED APRIL 13, 1920.

133,204. CERTAIN NAMED METALS AND METAL CASTINGS AND FORGINGS. AMERICAN IRON PRODUCTS COMPANY, INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,532. PUBLISHED MAY 4, 1920.

133,205. CERTAIN NAMED BOYS' OUTER CLOTHING. AMERICAN NOVELTY WASH SUIT CO., INC., New York, N. Y.
Filed July 24, 1919. Serial No. 120,864. PUBLISHED APRIL 13, 1920.

133,206. OPHTHALMIC LENSES AND LENSES FOR ALL KINDS OF OPTICAL AND SCIENTIFIC INSTRUMENTS. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed November 5, 1919. Serial No. 124,562. PUBLISHED APRIL 20, 1920.

133,207. OPHTHALMIC LENSES, LENS-BLANKS, AND LENSES FOR ALL KINDS OF OPTICAL AND SCIENTIFIC INSTRUMENTS. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed November 5, 1919. Serial No. 124,563. PUBLISHED APRIL 20, 1920.

133,208. OPHTHALMIC LENSES AND LENSES FOR OPTICAL INSTRUMENTS AND APPLIANCES. AMERICAN OPTICAL COMPANY, Southbridge Mass.
Filed December 16, 1919. Serial No. 126,092. PUBLISHED APRIL 27, 1920.

133,209. MECHANICALLY-OPERATED TRAFFIC-SIGNALS FOR VEHICLES. AUTO INDICATOR COMPANY, Grand Rapids, Mich.
Filed August 4, 1919. Serial No. 121,227. PUBLISHED APRIL 13, 1920.

133,210. POWER-TRANSMISSION OR DRIVE CHAINS FOR MORTOR-TRUCKS, &c. BALDWIN CHAIN AND MANUFACTURING COMPANY, Worcester, Mass.
Filed October 22, 1919. Serial No. 124,066. PUBLISHED APRIL 20, 1920.

133,211. CUP OR DISH LIKE RECEPTACLES MADE OF FRIED OR BAKED PASTRY. THE F. BEAUMONT NATIONAL-CROUSTADE MANUFACTURING COMPANY, INC., New York, N. Y.
Filed December 1, 1917. Serial No. 107,699. PUBLISHED JANUARY 22, 1918.

133,212. COTS AND COUCHES. BERNSTEIN MANUFACTURING COMPANY, Philadelphia, Pa.
Filed September 5, 1919. Serial No. 122,336. PUBLISHED DECEMBER 9, 1919.

133,213. GLOVES. THE BILTWELL GLOVE COMPANY, Toledo, Ohio.
Filed November 6, 1919. Serial No. 124,587. PUBLISHED APRIL 13, 1920.

133,214. CERTAIN NAMED FEMALE APPAREL. BLOOM & MOSES INC., Baltimore, Md.
Filed December 4, 1919. Serial No. 125,559. PUBLISHED APRIL 6, 1920.

133,215. KITCHEN-TABLES AND KITCHEN-CABINETS. BLUE BIRD MANUFACTURING COMPANY, St. Louis, Mo.
Filed October 31, 1919. Serial No. 124,386. PUBLISHED FEBRUARY 10, 1920.

133,216. WOMEN'S, MISSES', CHILDREN'S, AND INFANTS' FELT SHOES AND SLIPPERS. GEORGE BORGFELDT & CO., New York, N. Y.
Filed January 21, 1920. Serial No. 127,421. PUBLISHED APRIL 6, 1920.

133,217. MOVING-PICTURE FILMS SHOWING ANIMATED DRAWINGS ISSUED SERIALLY. THE BRAY PICTURES CORPORATION, New York, N. Y.
Filed December 11, 1919. Serial No. 125,827. PUBLISHED APRIL 20, 1920.

133,218. MOVING-PICTURE FILMS. THE BRAY PICTURES CORPORATION, New York, N. Y.
Filed March 18, 1920. Serial No. 129,872. PUBLISHED MAY 4, 1920.

133,219. SPARK-PLUGS. THE BREWSTER-GOLDSMITH CORP. INC., New York, N. Y.
Filed June 24, 1919. Serial No. 119,926. PUBLISHED FEBRUARY 10, 1920.

133,220. STAYBOLT-TAPS. W. L. BRUBAKER & BROS., Millersburg, Pa.
Filed January 14, 1920. Serial No. 127,114. PUBLISHED APRIL 20, 1920.

133,221. EXPLOSIVE-ENGINES AND PARTS THEREOF. THE BURNETT-LARSH MANUFACTURING COMPANY, Dayton, Ohio.
Filed January 14, 1920. Serial No. 127,112. PUBLISHED MAY 4, 1920.

133,222. CANNED VEGETABLES. CALIFORNIA PACKING CORPORATION, San Francisco, Calif.
Filed July 24, 1918. Serial No. 112,293. PUBLISHED SEPTEMBER 30, 1919.

133,223. BATHING-SUITS, SWEATERS, AND JERSEYS. THE CAMPE CORPORATION, New York, N. Y.
Filed December 2, 1919. Serial No. 125,491. PUBLISHED APRIL 6, 1920.

133,224. SO-CALLED RUBBER TIRES, RUBBER-TIRE CASINGS, AND INNER TUBES. THE CANTON-BLACKSTONE COMPANY, Canton, Ohio.
Filed October 31, 1919. Serial No. 124,391. PUBLISHED MARCH 16, 1920.

133,225. CERTAIN NAMED CONSTRUCTION MATERIAL. CELITE PRODUCTS COMPANY, Los Angeles, Calif., and New York, N. Y.
Filed November 29, 1919. Serial No. 125,418. PUBLISHED APRIL 6, 1920.

133,226. CERTAIN NAMED BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES. CHICAGO PNEUMATIC TOOL COMPANY, Chicago, Ill.
Filed August 18, 1919. Serial No. 121,758. PUBLISHED FEBRUARY 3, 1920.

133,227. SHINGLES. CHINOOK LUMBER & SHINGLE CO., Seattle, Wash.
Filed June 6, 1917. Serial No. 104,353. PUBLISHED APRIL 13, 1920.

133,228. CERTAIN NAMED CONSTRUCTION MATERIALS. THE CLEVELAND-AKRON BAG CO., Cleveland, Ohio.
Filed August 26, 1918. Serial No. 112,868. PUBLISHED APRIL 13, 1920.

133,229. COMPOSITION STRIPS AND SHEETS FOR BUILDING AND ROOFING PURPOSES. THE CLEVELAND-AKRON BAG COMPANY, Cleveland, Ohio.
Filed January 12, 1920. Serial No. 127,034. PUBLISHED APRIL 13, 1920.

133,230. WHEAT-FLOUR. THE COMMERCIAL MILLING CO., Detroit, Mich.
Filed February 28, 1917. Serial No. 101,772. PUBLISHED AUGUST 20, 1918.

133,231. ANTICORROSIVE PAINT. CORROSANTI CHEMICAL CO. INC., Newark, N. J.
Filed October 15, 1919. Serial No. 123,790. PUBLISHED MARCH 30, 1920.

133,232. HOSIERY. DALTON HOSIERY MILLS, Dalton, Ga.
Filed December 29, 1919. Serial No. 126,560. PUBLISHED APRIL 6, 1920.

133,233. MOVING-PICTURE FILMS. LEROY E. DAVIDSON, Buffalo, N. Y.
Filed July 14, 1919. Serial No. 120,523. PUBLISHED APRIL 6, 1920.

133,234. KNITTED UNDERWEAR IN ONE AND TWO PIECE GARMENTS. DE MILO DISTRIBUTING CO., New York, N. Y.
Filed December 29, 1919. Serial No. 126,561. PUBLISHED APRIL 6, 1920.

133,235. INTERMITTENT FOUNTAIN RULING-PENS. DESIGNERS INSTRUMENT COMPANY, Chicago, Ill.
Filed December 16, 1919. Serial No. 126,115. PUBLISHED APRIL 20, 1920.

133,236. PREPARED LIQUID VARNISH RESEMBLING SHELLAC. THE DON-O-LAC CO., INC., Rochester, N. Y.
Filed December 13, 1919. Serial No. 125,950. PUBLISHED APRIL 13, 1920.

133,237. WIRE AND METALLIC STRIPS OF AN ALLOY CONTAINING MANGANESE AND HIGHLY RESISTANT TO OXIDATION. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed February 1, 1919. Serial No. 115,567. PUBLISHED APRIL 20, 1920.

133,238. GRANULAR AND GELATINOUS EXPLOSIVES. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed January 24, 1920. Serial No. 127,550. PUBLISHED FEBRUARY 10, 1920.

133,239. WOODEN PIPES AND SPLICINGS. DANIEL EICHENFELD, Tulsa, Okla.
Filed August 19, 1919. Serial No. 121,804. PUBLISHED APRIL 6, 1920.

133,240. SILK PIECE GOODS. SAMUEL EISEMAN & CO. INC., New York, N. Y.
Filed February 24, 1920. Serial No. 128,834. PUBLISHED MAY 4, 1920.

133,241. PAJAMAS AND NIGHTGOWNS. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed June 17, 1919. Serial No. 119,703. PUBLISHED APRIL 13, 1920.

133,242. VENTILATING SEAT-PADS. EDMUND J. FABER, St. Louis, Mo.
Filed October 18, 1919. Serial No. 123,925. PUBLISHED FEBRUARY 10, 1920.

133,243. CERTAIN NAMED HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. THE FARM EQUIPMENT CO., Baltimore, Md.
Filed December 31, 1919. Serial No. 126,685. PUBLISHED MAY 4, 1920.

133,244. PERMANENT BUILDINGS AND STRUCTURAL ELEMENTS THEREOF. THE H. K. FERGUSON COMPANY, Cleveland, Ohio.
Filed October 29, 1919. Serial No. 124,801. PUBLISHED APRIL 13, 1920.

133,245. TILE, BRICK, AND ARTIFICIAL STONE. FORMBY PETRINITE CORPORATION, Jacksonville, Fla.
Filed January 26, 1920. Serial No. 127,586. PUBLISHED APRIL 6, 1920.

133,246. DRESSES AND SKIRTS. THE FRIEDMAN-HAAS CO., Cleveland, Ohio.
Filed January 28, 1920. Serial No. 127,684. PUBLISHED APRIL 6, 1920.

133,247. CIGARS. ALVARO GARCIA, New York, N. Y.
Filed November 4, 1919. Serial No. 124,520. PUBLISHED FEBRUARY 10, 1920.

133,248. CERTAIN NAMED TEXTILE FABRICS. WILLIAM S. GAVEY, New York, N. Y.
Filed January 22, 1920. Serial No. 127,473. PUBLISHED MAY 4, 1920.

133,249. PRINTING-PRESS INKING-ROLLERS. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed December 15, 1919. Serial No. 126,022. PUBLISHED MAY 4, 1920.

133,250. PREPARATION FOR HARDENING AND WATERPROOFING CEMENT MIXTURES. GRANITEX COMPANY, INC., New York, N. Y.
Filed December 17, 1919. Serial No. 126,178. PUBLISHED APRIL 13, 1920.

133,251. MATTRESSES, PILLOWS, BED-SPRINGS, AND BOX-SPRINGS. GREENPOINT-SOUTHERN COMPANY, INC., Long Island City, N. Y.
Filed November 25, 1919. Serial No. 125,280. PUBLISHED FEBRUARY 10, 1920.

133,252. CERTAIN NAMED CLOTHING FOR MEN, WOMEN, AND CHILDREN. GUITERMAN, ROSENFELD & COMPANY, New York, N. Y.
Filed October 24, 1919. Serial No. 124,139. PUBLISHED APRIL 13, 1920.

133,253. CERTAIN NAMED HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. SELDEN J. GULESIAN, Reverè, Mass.
Filed January 27, 1920. Serial No. 127,644. PUBLISHED MAY 4, 1920.

133,254. VARNISHES, SHELLACS, LACQUERS, AND FINISHES FOR STRAW HATS, FRENCH VARNISHES, READY MIXED PAINTS AND PAINTERS' OIL. A. R. HAEUSER CO., New York, N. Y.
Filed April 7, 1919. Serial No. 117,231. PUBLISHED APRIL 6, 1920.

133,255. CIGARS. THE HARKERT CIGAR CO., Davenport, Iowa.
Filed November 11, 1919. Serial No. 124,753. PUBLISHED MARCH 30, 1920.

133,256. PAJAMAS, UNION-PAJAMAS, SLEEPING-GARMENTS, NIGHT-SHIRTS, AND LOUNGING-GARMENTS. MILTON HARRIS, Cincinnati, Ohio.
Filed January 24, 1920. Serial No. 127,546. PUBLISHED APRIL 6, 1920.

133,257. STEEL CABINETS FOR STORAGE AND FILING PURPOSES. THE HART & HUTCHINSON COMPANY, New Britain, Conn.
Filed October 30, 1919. Serial No. 124,345. PUBLISHED MARCH 30, 1920.

133,258. HAIR-NETS. HARTMANN BROTHERS, INC., New York, N. Y.
Filed December 23, 1919. Serial No. 126,381. PUBLISHED MAY 4, 1920.

133,259. CENTRIFUGAL DRIERS, FILTERS, AND SEPARATORS AND PARTS THEREOF. S. S. HEPWORTH COMPANY, New York, N. Y.
Filed August 2, 1919. Serial No. 121,204. PUBLISHED APRIL 6, 1920.

133,260. BOYS' SUITS. HESSBERG, MORRIS & GUNST, INC., Baltimore, Md.
Filed November 15, 1919. Serial No. 124,938. PUBLISHED APRIL 6, 1920.

133,261. LARD SUBSTITUTE. HODGSON OIL REFINING CO., Athens, Ga.
Filed November 8, 1919. Serial No. 124,685. PUBLISHED MAY 4, 1920.

133,262. SUBSTITUTE FOR LINSEED-OIL. THE HULBERT OIL & GREASE CO., Philadelphia, Pa.
Filed March 21, 1919. Serial No. 116,773. PUBLISHED APRIL 13, 1920.

133,263. CERTAIN NAMED PAINTS, VARNISHES, AND PAINTERS' MATERIALS AND A FLOOR AND WALL FINISHING PREPARATION. THE IMPERIAL VARNISH AND COLOR COMPANY, LIMITED, Toronto, Ontario, Canada.
Filed November 26, 1919. Serial No. 125,331. PUBLISHED APRIL 13, 1920.

133,264. COATS, OUTER VESTS, AND WORK-SHIRTS FOR MEN. JOHNSON-BOSTWICK & CO., Minneapolis, Minn.
Filed January 2, 1920. Serial No. 126,731. PUBLISHED APRIL 13, 1920.

133,265. CERTAIN NAMED FANCY GOODS, FURNISHINGS, AND NOTIONS. JOSEPH-LOUIS & CO., New York, N. Y.
Filed April 22, 1919. Serial No. 117,728. PUBLISHED MARCH 30, 1920.

133,266. FURNITURE-CUSHIONS. S. KARPEN & BROS., Chicago, Ill.
Filed November 4, 1919. Serial No. 124,524. PUBLISHED FEBRUARY 24, 1920.

133,267. CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. JOHN KENYON & CO. (SHEFFIELD,) LIMITED, Sheffield, England.
Filed June 24, 1919. Serial No. 119,899. PUBLISHED MAY 4, 1920.

133,268. LEATHER, RUBBER, AND CANVAS SHOES. MRS. A. R. KING, INC., Philadelphia, Pa.
Filed January 24, 1920. Serial No. 127,547. PUBLISHED APRIL 6, 1920.

133,269. CIGARS. THE KIRSCHBAUM COMPANY, Savannah, Ga.
Filed October 16, 1919. Serial No. 123,858. PUBLISHED APRIL 6, 1920.

133,270. DRESSES. LANGFELDER & SHRIER, New York, N. Y.
Filed January 3, 1920. Serial No. 126,770. PUBLISHED APRIL 6, 1920.

133,271. CERTAIN NAMED CONSTRUCTION MATERIALS. THE LEHON COMPANY, Chicago, Ill.
Filed November 22, 1919. Serial No. 125,190. PUBLISHED APRIL 13, 1920.

133,272. CIGARETTES. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed November 24, 1919. Serial No. 125,234. PUBLISHED FEBRUARY 10, 1920.

133,273. LETTERS OR NUMBERS OF HIGHLY-GLAZED PORCELAIN BLOCKS, ORDINARILY MOUNTED UPON BULLETIN-BOARDS OR SIGNS. CHAS. F. LORENZEN & CO., Chicago, Ill.
Filed June 12, 1919. Serial No. 119,522. PUBLISHED APRIL 13, 1920.

133,274. BRICKS AND BUILDING-BLOCKS. HENRY J. F. LUDEMAN, Pittsburgh, Pa.
Filed March 10, 1920. Serial No. 129,508. PUBLISHED APRIL 13, 1920.

133,275. WOMEN'S, MISSES', AND CHILDREN'S DRESSES. R. H. MACY & CO., INC., New York, N. Y.
Filed January 5, 1920. Serial No. 126,815. PUBLISHED APRIL 6, 1920.

133,276. OLIVE-OIL. DANIEL MANGRANÉ, Barcelona, Spain.
Filed June 9, 1919. Serial No. 119,353. PUBLISHED DECEMBER 23, 1919.

133,277. OLIVE-OIL. DANIEL MANGRANÉ, Barcelona, Spain.
Filed June 9, 1919. Serial No. 119,354. PUBLISHED DECEMBER 23, 1919.

133,278. MEN'S AND YOUNG MEN'S CLOTHES. MORRIS MARANS SONS, New York, N. Y.
Filed May 8, 1919. Serial No. 118,270. PUBLISHED APRIL 13, 1920.

133,279. DRAPERIES AND DECORATIVE FABRICS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed February 16, 1920. Serial No. 128,430. PUBLISHED MAY 4, 1920.

133,280. CIGARS. JOHN J. MAUSER, Sanford, Fla.
Filed February 2, 1920. Serial No. 127,863. PUBLISHED APRIL 20, 1920.

133,281. HAND-OPERATED TIRE-PUMPS. MAYO-SKINNER MFG. COMPANY, Chicago, Ill.
Filed November 10, 1919. Serial No. 124,724. PUBLISHED MAY 4, 1920.

133,282. SKIRTS. MAZZEI SKIRT CO. INC., New York, N. Y.
Filed December 10, 1919. Serial No. 125,792. PUBLISHED APRIL 6, 1920.

133,283. CERTAIN NAMED CLOTHING FOR LADIES, MISSES, AND CHILDREN. J. A. MIGEL, INC., New York, N. Y.
Filed July 28, 1919. Serial No. 121,010. PUBLISHED APRIL 6, 1920.

133,284. LOCKS. MILLER LOCK COMPANY, Philadelphia, Pa.
Filed December 13, 1919. Serial No. 125,961. PUBLISHED APRIL 6, 1920.

133,285. WOMEN'S HOSIERY. WAYNE KNITTING MILLS, Fort Wayne, Ind.
Filed December 23, 1919. Serial No. 126,402. PUBLISHED APRIL 6, 1920.

133,286. LADIES' AND CHILDREN'S DRESSES. I. MITTELMAN & CO., New York, N. Y.
Filed October 8, 1919. Serial No. 123,553. PUBLISHED APRIL 13, 1920.

133,287. PREPARED BITUMINOUS CONCRETE. MACK MOULTON, Jr., Boston, Mass.
Filed February 5, 1920. Serial No. 128,006. PUBLISHED MARCH 30, 1920.

133,288. LUMBER AND HARDWOOD FLOORING. THE MOWBRAY & ROBINSON COMPANY, Wilmington, Del., and Cincinnati, Ohio.
Filed December 10, 1919. Serial No. 125,789. PUBLISHED APRIL 13, 1920.

133,289. SILK-FILLED CRÊPE-DE-CHINE PIECE GOODS. NATHAN AND COHEN CO., INC., New York, N. Y.
Filed February 12, 1920. Serial No. 128,312. PUBLISHED MAY 4, 1920.

133,290. COMPOSITION FOR MAKING CONCRETE SLABS. THE NATIONAL BUILDERS COMPANY, Cleveland, Ohio.
Filed April 2, 1919. Serial No. 117,124. PUBLISHED APRIL 13, 1920.

133,291. FILING-CABINETS, PARTICULARLY OF THE TYPE KNOWN AS CREDIT-FILES FOR THE FILING OF CUSTOMERS' ACCOUNTS, AND PARTS OF SUCH CABINETS. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio.
Filed October 13, 1919. Serial No. 123,749. PUBLISHED FEBRUARY 10, 1920.

133,292. CERTAIN NAMED BOYS' CLOTHING AND WEARING-APPAREL. NEW YORK BOYS' SHOPS, INC., New York, N. Y.
Filed November 10, 1919. Serial No. 124,727. PUBLISHED APRIL 6, 1920.

133,293. ICE-CREAM. IVAN B. NORDHEM COMPANY, New York, N. Y.
Filed July 14, 1919. Serial No. 120,548. PUBLISHED DECEMBER 23, 1919.

133,294. ANTIFRICTION BABBITT METALS. THE OHIO METAL CO., Columbus, Ohio.
Filed April 22, 1919. Serial No. 117,740. PUBLISHED JULY 22, 1919.

133,295. AUTOMOBILE-BODY POLISH AND CLEANER. PARK CHEMICAL COMPANY, Great Falls, Mont.
Filed November 4, 1919. Serial No. 124,533. PUBLISHED APRIL 6, 1920.

133,296. DRY AND READY-MIXED PAINTS, DRIERS, ENAMEL PAINTS, WOOD-STAINS, WALL-PAINTS, LIQUID LACQUERS, FILLERS, AND VARNISHES. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed September 24, 1919. Serial No. 123,077. PUBLISHED APRIL 6, 1920.

133,297. DRY AND READY-MIXED PAINTS, DRIERS, ENAMEL PAINTS, WOOD-STAINS, OIL AND VARNISH WALL-PAINTS, LIQUID LACQUERS, FILLERS AND VARNISHES. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed September 26, 1919. Serial No. 123,173. PUBLISHED APRIL 6, 1920.

133,298. WEATHERPROOF COATS. W. O. PEAKE LTD., London, England.
Filed August 26, 1919. Serial No. 122,024. PUBLISHED APRIL 6, 1920.

133,299. CIGARS. PERFECTO MANUFACTUARERS, INC., New York, N. Y.
Filed February 12, 1920. Serial No. 128,316. PUBLISHED APRIL 20, 1920.

133,300. CIGARS. PERFECTO MANUFACTURERS, INC., New York, N. Y.
Filed February 12, 1920. Serial No. 128,318. PUBLISHED APRIL 20, 1920.

133,301. CERTAIN NAMED BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES. THE POLSON RUBBER CO., Cleveland, Ohio.
Filed August 26, 1919. Serial No. 122,023. PUBLISHED JANUARY 6, 1920.

133,302. CERTAIN NAMED UNDERWEAR FOR MEN AND BOYS. WARREN D. PORTER, San Francisco, Calif.
Filed July 31, 1919. Serial No. 121,156. PUBLISHED APRIL 6, 1920.

133,303. COMPUTING-SCALES, MEASURING-PUMPS. WILLIAM C. PRITCHARD, Lancaster, Pa.
Filed October 7, 1919. Serial No. 123,497. PUBLISHED APRIL 20, 1920.

133,304. REFRACTORY LINING FOR FURNACE STRUCTURES. QUIGLEY FURNACE SPECIALTIES CO., INCORPORATED, New York, N. Y.
Filed August 2, 1919. Serial No. 121,211. PUBLISHED APRIL 13, 1920.

133,305. POLISH FOR FURNITURE AND WOODWORK. FRANK A. RADER, Cleveland, Ohio.
Filed November 24, 1919. Serial No. 125,250. PUBLISHED APRIL 13, 1920.

133,306. WALL OR PARTITION SECTIONS OR UNITS. ALEXANDER H. REVELL & Co., Chicago, Ill.
Filed September 29, 1919. Serial No. 123,262. PUBLISHED MARCH 30, 1920.

133,307. NECKTIES, CRAVATS, MUFFLERS, AND COLLARS. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed December 29, 1919. Serial No. 126,595. PUBLISHED APRIL 6, 1920.

133,308. COTTON PIECE GOODS, KNIT PIECE GOODS, MUSLINS, COTTON AND SILK RIBBONS, WEBS, AND WEBBING. RIDER WALLIS DRY GOODS CO., Dubuque, Iowa, and New York, N. Y.
Filed February 10, 1920. Serial No. 128,218. PUBLISHED MAY 4, 1920.

133,309. QUILTS, COTTON AND WOOL BLANKETS, AND TRAVELING-RUGS. ROGERS, HENNESSEY & JENKINS, Boston, Mass.
Filed February 12, 1920. Serial No. 128,325. PUBLISHED MAY 4, 1920.

133,310. INTERNAL-COMBUSTION MOTORS. THE ROLLAWAY COMPANY, Toledo, Ohio.
Filed January 19, 1920. Serial No. 127,333. PUBLISHED APRIL 27, 1920.

133,311. CIGARETTES. RUSSIAN TEA ROOM & ART SHOP, Chicago, Ill.
Filed November 26, 1919. Serial No. 125,340. PUBLISHED APRIL 6, 1920.

133,312. CIGARETTES. RUSSIAN TEA ROOM & ART SHOP, Chicago, Ill.
Filed November 26, 1919. Serial No. 125,341. PUBLISHED April 6, 1920.

133,313. CIGARETTES. RUSSIAN TEA ROOM & ART SHOP, Chicago, Ill.
Filed November 26, 1919. Serial No. 125,342. PUBLISHED APRIL 6, 1920.

133,314. GINGHAMS, COTTON GOODS, WOOL AND COTTON GOODS, AND SILK AND COTTON GOODS IN THE PIECE. SANGER BROTHERS, INC., Dallas, Tex., and New York, N. Y.
Filed February 7, 1920. Serial No. 128,113. PUBLISHED MAY 4, 1920.

133,315. WOMEN'S APRONS. LEON SCHREIBER, Cleveland, Ohio.
Filed July 30, 1919. Serial No. 121,132. PUBLISHED APRIL 13, 1920.

133,316. RUBBER-SOLED SHOES MADE OF FABRIC AND RUBBER. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 20, 1919. Serial No. 124,015. PUBLISHED APRIL 13, 1920.

133,317. CERTAIN NAMED CLOTHING FOR BOYS AND YOUNG MEN. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 29, 1919. Serial No. 126,598. PUBLISHED APRIL 6, 1920.

133,318. KEYS AND LOCKS. SEGAL LOCK & HARDWARE CO. INC., New York, N. Y.
Filed September 4, 1919. Serial No. 122,314. PUBLISHED MARCH 16, 1920.

133,319. MOTION-PICTURE FILMS. SELZNICK PICTURES CORPORATION, New York, N. Y.
Filed August 28, 1919. Serial No. 122,086. PUBLISHED APRIL 20, 1920.

133,320. ELECTRIC-BATTERY-CELL TESTERS AND ELECTRIC-BATTERY-TESTING INSTRUMENTS. SERVICE STATION SUPPLY CO., Detroit, Mich.
Filed December 5, 1919. Serial No. 125,631. PUBLISHED APRIL 20, 1920.

133,321. COMPOSITION FLOORS AND STUCCOS OF MAGNESITE BASE. GEORGE B. SMITH, Springfield, Ill.
Filed October 8, 1919. Serial No. 123,558. PUBLISHED APRIL 13, 1920.

133,322. WOMEN'S AND CHILDREN'S TEXTILE UNDERWEAR, NIGHT-ROBES, DRESSES, AND BLOUSES. M. E. SMITH & CO., INC., Omaha, Nebr.
Filed January 31, 1920. Serial No. 127,840. PUBLISHED APRIL 6, 1920.

133,323. ENGINE-LATHES. SOUTH BEND LATHE WORKS, South Bend, Ind.
Filed February 28, 1920. Serial No. 129,024. PUBLISHED MAY 4, 1920.

133,324. CIGARETTES. STANDARD EXPORT CIGARETTE CORPORATION, New York, N. Y.
Filed October 18, 1919. Serial No. 123,942. PUBLISHED APRIL 20, 1920.

133,325. POLISH FOR FLOORS, FURNITURE, WOODWORK, AND AUTOMOBILE-BODIES. THE STANDARD PRODUCTS CO., Buffalo, N. Y.
Filed January 19, 1920. Serial No. 127,339. PUBLISHED APRIL 6, 1920.

133,326. SKYLIGHT-BARS WHICH ARE PART OF THE FRAME FOR HOLDING THE GLASS. STEELEAD SKYLIGHT CO., Seattle, Wash.
Filed July 25, 1919. Serial No. 120,942. PUBLISHED APRIL 13, 1920.

133,327. PREPARED FELT FOR CONSTRUCTION PURPOSES. JUNIUS H. STONE, New York, N. Y.
Filed August 18, 1919. Serial No. 121,791. PUBLISHED APRIL 6, 1920.

133,328. FLEXIBLE-FABRIC-COATING PAINT FOR ACOUSTICAL WORK. JUNIUS H. STONE, New York, N. Y.
Filed September 11, 1919. Serial No. 122,577. PUBLISHED APRIL 13, 1920.

133,329. HOSIERY FOR MEN, WOMEN, AND CHILDREN AND UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. C. W. TAVES CO., Chicago, Ill.
Filed February 3, 1920. Serial No. 127,944. PUBLISHED APRIL 6, 1920.

133,330. CERTAIN NAMED HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. TEW PATENT DEVELOPMENT COMPANY, Seattle, Wash.
Filed December 13, 1919. Serial No. 125,983. PUBLISHED MAY 4, 1920.

133,331. CIGARETTES. TOBACCO PRODUCTS CORPORATION, New York, N. Y.
Filed September 27, 1919. Serial No. 123,228. PUBLISHED FEBRUARY 10, 1920.

133,332. SEWING-MACHINES AND PARTS THEREOF. UNION SPECIAL MACHINE COMPANY, Chicago, Ill.
Filed November 29, 1915. Serial No. 91,026. PUBLISHED APRIL 13, 1920.

133,333. EXTENSION OR SLIDING COUCHES. THE UNITED STATES SPRING BED COMPANY, Springfield, Mass.
Filed November 4, 1919. Serial No. 124,559. PUBLISHED APRIL 13, 1920.

133,334. CERTAIN NAMED CLOTHING FOR MEN, WOMEN, AND CHILDREN. UNITED STAY COMPANY, Cambridge, Mass.
Filed April 30, 1919. Serial No. 118,025. PUBLISHED APRIL 6, 1920.

133,335. FABRIC AND RUBBER TIRES. UNIVERSAL TIRE & RUBBER ASSOCIATION, Houston, Tex.
Filed September 27, 1919. Serial No. 123,229. PUBLISHED FEBRUARY 10, 1920.

133,336. KITCHEN-CABINETS. VINCENNES FURNITURE MFG. CO., Vincennes, Ind.
Filed October 6, 1919. Serial No. 123,506. PUBLISHED APRIL 6, 1920.

133,337. PISTON-RINGS. V-PLEX PISTON RING COMPANY, Chicago, Ill.
Filed September 16, 1919. Serial No. 122,796. PUBLISHED JANUARY 6, 1920.

133,338. SPECTACLES, EYEGLASSES, EYEGLASS-MOUNTINGS, OPHTHALMIC LENSES, THERMOMETERS, BAROMETERS, FIELD-GLASSES, AND OPERA-GLASSES. WALL & OCHS, INCORPORATED, Philadelphia, Pa.
Filed March 30, 1920. Serial No. 130,400. PUBLISHED MAY 4, 1920.

133,339. RUBBER AND FABRIC VEHICLE-TIRES, TUBES, BOOTS, AND TIRE-PATCHES. WASHINGTON TIRE & RUBBER COMPANY, Spokane, Wash.
Filed November 15, 1919. Serial No. 124,962. PUBLISHED MARCH 16, 1920.

133,340. RUBBER AND FABRIC VEHICLE-TIRES, TUBES, BOOTS, AND TIRE-PATCHES. WASHINGTON TIRE & RUBBER COMPANY, Spokane, Wash.
Filed November 15, 1919. Serial No. 124,963. PUBLISHED MARCH 16, 1920.

133,341. CERTAIN NAMED CONSTRUCTION MATERIALS. WEYERHAEUSER FOREST PRODUCTS, St. Paul, Minn.
Filed December 20, 1919. Serial No. 126,297. PUBLISHED APRIL 18, 1920.

133,342. PIANO AND AUTOMOBILE POLISH. EMIL WIEDERHOLD & BRO., Columbus, Ohio.
Filed December 10, 1919. Serial No. 125,815. PUBLISHED APRIL 13, 1920.

133,343. LEATHER AND CLOTH GLOVES AND LEATHER AND CLOTH MITTENS. WISCONSIN-PILOT GLOVE COMPANY, Milwaukee, Wis.
Filed December 4, 1919. Serial No. 125,590. PUBLISHED APRIL 13, 1920.

133,344. CERTAIN NAMED CLOTHING. WISE BROTHERS, INC., Baltimore, Md.
Filed December 23, 1919. Serial No. 126,404. PUBLISHED APRIL 6, 1920.

133,345. MILLING-CUTTERS, REAMERS, TWIST-DRILLS, AND TAPS. E. G. WRIGLEY & CO. LTD., Birmingham, England.
Filed June 26, 1919. Serial No. 119,992. PUBLISHED APRIL 6, 1920.

133,346. MILLING-CUTTERS, REAMERS, TWIST-DRILLS, AND TAPS. E. G. WRIGLEY & CO., LTD., Birmingham, England.
Filed June 26, 1919. Serial No. 119,993. PUBLISHED APRIL 6, 1920.

133,347. HOSIERY FOR MEN, WOMEN, AND CHILDREN. ANDREW ALPHONS WUEST, Cincinnati, Ohio.
Filed December 15, 1919. Serial No. 126,080. PUBLISHED APRIL 13, 1920.

LABELS

REGISTERED JULY 20, 1920.

21,904.—*Title:* "DENISON'S ORIGINAL FAMOUS CANCER OINTMENT." (For an Ointment for Cancer.) ALFRED DENISON & SON, Mohawk, N. Y. Filed April 8, 1920.

21,905.—*Title:* "FRANK'S." (For Frankforts—Namely, Sausages.) FRANK & COMPANY, Milwaukee, Wis. Filed February 20, 1920.

PRINTS

REGISTERED JULY 20, 1920.

5,266.—*Title:* "WATCHES THAT RUN." (For Watches.) ADELS-RIBAKOFF CO. INC., New York, N. Y. Filed February 14, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE TEALE.

Decided May 1, 1919.

1. PATENTS—PATENTABILITY—ANALOGOUS USE.

The use of a device for separating parts of ground ore is so remote from that of separating the heavier and lighter parts of ground tobacco that the latter might not be suggested by the former.

2. SAME—CLAIMS—TERMINOLOGY—"PROPELLING MEANS."

The objection that an air-draft is not a "propelling mechanism" *Held* to be not well taken, as an air-draft is a well-known propelling means and is recognized as an equivalent of a strictly structural propelling means.

3. SAME—PATENTABILITY—SUBSTITUTION OF EQUIVALENTS.

Where a prior-art patent disclosed a device to produce a shower of tobacco and direct it onto a separating means and another patent disclosed a separator to act on granulated tobacco having elements of different specific gravities in which the tobacco was fed from a hopper onto a rapidly-moving belt, which propelled the tobacco against opposing air-currents, the heavier particles being thrown through the current and the lighter ones being deflected by the current, *Held* that it involved no invention to substitute the shower-producing means of the former for the hopper of the latter combination.

[This application has resulted in Patent No. 1,326,547, dated December 30, 1919.]

APPEAL from Examiners-in-Chief.

TOBACCO-CLEANER.

Mr. Sydney I. Prescott for the applicant.

NEWTON, *Commissioner:*

Appeal is taken from the decision of the Examiners-in-Chief affirming the decision of the Primary Examiner rejecting claims 1 to 4, 6, 7, 21, 22, 23, and 26 to 30, inclusive, of which the following serve as examples:

1. The combination with means for producing a shower of tobacco, of cleaning means including propelling mechanism positioned to intercept and adapted to act upon the shower of tobacco to drive its heavier and lighter parts along different trajectories and thereby effect their separation.

21. The combination with an automatic cigarette machine feed, of cleaning means associated therewith and including propelling mechanism positioned to intercept and adapted to act upon the tobacco within said feed to drive its heavier and lighter parts along different trajectories and thereby effect their separation.

26. The combination with means for producing a shower of cut tobacco leaf, of mechanism positioned to intercept and act upon said shower to separate the heavier and lighter parts of said leaf.

The references cited are: Drummond, 384,565, June 12, 1888; Drummond, 384,566, June 12, 1888; Stuckey *et al.*, 518,082, April 10, 1894; Bonsack, 589,116, August 31, 1897; Raymond, 629,604, July 25, 1899.

The invention is an improvement in devices for cleaning tobacco for use in cigarettes and comprises a chamber containing means for feeding and picking the tobacco to pieces and distributing it in a "shower." In this falling shower is positioned a rotating vaned drum for propelling the tobacco lengthwise of the chamber, the heavier particles including bits of the stems and small lumps of leaf being thrown farthest and into a receptacle, while the lighter particles fall short and onto a moving belt carrying them to a hopper, which may be attached to a cigarette-machine.

Emphasis is laid on the character of the material acted on. It is described as being tobacco-leaf, with a part of the stem left therein, the whole being sliced and shredded into a fineness suitable for cigarettes. By the use of applicant's particular cleaning or propelling means the bits of stems remaining are said to be removed and a preliminary shredding operation obviated. The appealed claims, however, define the material specifically only by the words "cut tobacco leaf."

Most of the claims recite that the tobacco falls in a shower and that the propelling means intercepts and acts on the shower, presumably for proper distribution and separation of the light and heavier particles.

It is noted that sixteen claims have been allowed, covering the general organization of applicant's machine and details, including the specific construction of the propelling mechanism.

The question presented for review is on the patentability of broader definitions of the structure whereby separation of the heavier and lighter parts of the tobacco is secured.

It is concededly old to take cigarette-tobacco more or less in a mass and pick it to pieces and cause it to fall in a shower upon a revolving separating means. Bonsack (figure 7) shows a machine doing this, as applicant admits. He contends, and correctly, that Bonsack's scattering-roll F^5 would not separate bits of stems from small fragments of leaf; but this is clearly due to the character of said roll. Bonsack's roll is described as separating heavy foreign matter, such as nails and stones, from the disintegrated tobacco; but it is also

described as separating and distributing the tobacco by throwing it away from its surface.

The patent to Stuckey and Arthur shows a distributing-wheel very much like applicant's propelling device, for use with ground ore, but the disclosed use in so remote an art as ore concentration might not suggest its use in cleaning tobacco. The applicant is not claiming merely a distributing-wheel.

The Drummond patents show drying means for the tobacco, shredding and breaking means for the stems and portions of leaf attached thereto, and air-draft separating means to carry off the leaf fragments. The material acted on here differs from applicant's material in the different proportions of broken stems and leaf fragments contained in each. One has a large proportion of stem fragments and a small proportion of leaf fragments, being derived from tobacco-leaf waste, while the other is mostly leaf particles, with probably only a small percentage of broken-up stems. The air-draft is in the path of the falling tobacco; but the latter is not, in my opinion, in the form of a "shower."

The applicant objects to an air-draft being considered "mechanism;" but I do not consider the objection well taken. It is a well-known propelling means and is recognized as an equivalent of a strictly structural propelling means.

It is true, as applicant states, that the air-draft of Drummond does not project the stem and leaf fragments along different trajectories; but I do not regard this as important. To move one variety away from the other is equivalent to moving both into different positions so far as a separating action is concerned.

The patent to Raymond is for a separator to act on material having elements of slightly-different specific gravities. Granulated tobacco is given as an example, which has fragments of fiber to be separated from fragments of leaf—a material very similar to applicant's material.

It is fed down a hopper upon a rapidly-moving belt, which propels the material against an opposing air-current, the heavier particles being thrown through the current and the lighter ones being deflected by the current, so that the desired separation follows.

Here there seems to be the same problem applicant faced and an equivalent solution by the selection of means. The material is said to be projected with great velocity and obviously would be shot along different trajectories and the varieties effectively separated, with the air-current omitted. The material is not fed to Raymond's belt in a shower; but the action of the belt would not be changed if it were. Shower-producing means anticipatory to a separating operation are admittedly old, and while the same may be especially advantageous where leaf and fiber fragments in specific proportions are acted on and when applicant's particular propelling means are employed yet in the combinations to which the appealed claims are directed the presence of shower-producing means is not imperative.

Upon carefully examining all the claims in this case it is noted that claims 2 and 3 cover "rotary propelling mechanism," define the function thereof, and include means for producing a shower of tobacco. It is thought this combination, since the reference Stuckey *et al.* is eliminated, is properly patentable. The remainder of the appealed claims are well met in Bonsack, taken with Raymond.

It is noted that claims 16, 17, and 18 are not limited to rotary propelling mechanism. They appear to have been allowed because they include means for collecting one part of the material and delivering the other part to a cigarette-machine; but this involves nothing novel over Bonsack, and I recommend that these claims be rejected by the Primary Examiner when the case is returned to him.

The decision of the Examiners-in-Chief is reversed as to claims 2 and 3 and affirmed as to the remaining claims.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

R. H. MACY & COMPANY *v.* NEW YORK GROCERY COMPANY.

Decided June 2, 1920.

1. TRADE-MARKS—SIMILARITY—"WHITE LILY"—"LILY WHITE."

"White Lily" and "Lily White" are so similar as to be likely to lead to confusion.

2. SAME—SIMILARITY OF GOODS—COFFEE AND TEA.

Registration of the words "White Lily" for coffee canceled in view of the prior use of "Lily White" on tea and other groceries, the goods, although different in themselves, being used for the same purpose.

Mr. E. W. Bradford for the appellant.

Mr. Benj. P. Fishburne for the appellee.

VAN ORSDEL, *J.:*

This is an appeal from the decision of the Commissioner of Patents denying the petition of appellants for cancelation of the trade-mark "White Lily" for coffee, registered by appellee company September 18, 1917. Appellants have used "Lily White" as a trade-mark for tea and a large line of groceries since 1895.

The marks are so similar as to be likely to lead to confusion, and the goods, while different in themselves, are used for the same purpose. The case must, therefore, be reversed upon the authority of *Walter Baker & Co.* v. *Harrison*, (32 App. D. C., 272.)

The decision of the Commissioner of Patents is reversed, and the clerk is directed to certify these proceedings as by law required.

Reversed.

Dissenting opinion by Chief Justice SMYTH:

The single question in this case as I view it is whether coffee and tea possess the same descriptive properties. Both tribunals of the Patent Office held that they do not. If Macy & Company had originated the mark, they undoubtedly would be entitled to the exclusive use of it, because tea and coffee belong to the same general class; but they did not originate it and therefore to succeed they must establish that the articles possess the same descriptive properties. The mere fact that confusion might result or that the goods are used for the same purpose, is immaterial under the statute. It is only when the marks are "appropriated to merchandise of the same descriptive properties," that the matter of probable confusion becomes important. If the fact that they are used for the same purpose is controlling, then the mark could be extended to milk, or lemonade, or even wine and beer, if they were still on the market. They, as coffee and tea, are beverages. Besides, the statute says nothing about the use to which articles are put, and the court should follow the statute.

Tea as it appears in the container to which the mark is applied, is a dried, rolled leaf. Coffee is a dried seed or berry. The appearance, taste, and odor of the articles are markedly different; tea is strongly astringent, coffee is not. The properties by which the one may be described are not the same as those by which the other may be identified.

The fact that in *Walter Baker Co. Case* (32 App. D. C., 272) it was held that cocoa and coffee possessed like descriptive properties, does not establish that tea and coffee do.

I think the Patent Office was right, and hence I dissent.

The decision of the Assistant Commissioner reads as follows:

CLAY, *Assistant Commissioner.*

R. H. Macy & Co. appeal from a ruling of the Examiner of Trade-Mark Interferences refusing the appellant's motion to cancel the registration No. 118,562, September 18, 1917, to the New York Grocery Company, of a mark consisting of the words "White Lily" and the picture of a white lily, for coffee; Macy & Co. having set up and proven previous use of the trade-mark "Lily White" for tea. The Examiner refused to cancel because he held that tea and coffee were not goods of the same descriptive properties and under the circumstances there was no likelihood of confusion.

The registrant appellee, the New York Grocery Company, says in its brief:

"If Macy & Co. had coined or originated the mark as a trade-mark for goods generally sold over grocers' counters and had built up their business about that mark so that purchasers would naturally consider such goods to be the product of Macy & Co., the registrant would concede that they were entitled to wide latitude in determining what fell within the natural expansion of their business; *but such is not the case.* The record in this case shows that as early as 1874 this identical mark was registered for flour and that marks practically identical therewith have since been registered for many articles sold over grocers' counters." (See footnote.)

The case is not without difficulty on account of this fact that Macy & Co. were never entitled to broadly monopolize their mark, as in the case where one originates a new device having no meaning until the trader, by his own usage, gave it a meaning. The case cannot turn solely upon any definite ruling as to whether tea and coffee are goods of the same descriptive properties, for this phrase, "goods of the same descriptive properties" has a very elastic and uncertain meaning, depending, in each case, upon the circumstances.

Section 5 of the trade-mark law refers at first to "goods of the same class"; then, in specifying what marks may be refused registration, it uses the expression "same descriptive properties." Section 13, which provides for cancellation proceedings, uses neither expression, but refers broadly to the question whether the registrant "was *entitled to the use*" of the mark at the date of his application for registration. This, of course, means such exclusive use, of such goods, and in such a way, as would not have illegally interfered with the business of Macy & Co. That is, the registrant's mark should not be canceled unless at the time it applied for registration in 1917, Macy & Co. were another party who had acquired the right to use this mark in this trade. The difficulty in this case, as in many other cases, arises from the uncertainty as to what must be considered to be the trade in question, and the bearing on that question of the scope of Macy & Co.'s previous trade-mark rights. If Macy & Co. had adopted for a particular line of groceries a newly originated trade-mark (such as "Kodak" or "Mazda") I have no doubt they would have had the right to expand the use widely, and to keep other traders from using that mark on any line of goods which the public might be at all likely to suppose to have originated with Macy & Co. Some of the English cases have even gone further than that, and have enjoined a bicycle manufacturer from calling his bicycles by the name "Kodak" at the suit of the owner of the trade-mark "Kodak" for cameras. (*Eastman Co. v. Kodak Bicycle Co.*, 15 Rpts., Pat. Cas., 105.)

This is farther than any of our courts have gone; and it should be noted that in that case the defendant used the name "Kodak" as part of its corporate name, and this would allow this company to cause confusion between it and the plaintiff company. Our courts have, however, clearly indicated that the essential question is whether one dealer has gotten himself in a position where he might palm off his goods as those of another. In *Aunt Jemima's Mills Co.* v. *Rigby & Co.* (247 Fed. Rep., 407) the court dealt with the trade-mark "Aunt Jemima" which had been adopted for flour. It was also the name of the plaintiffs, but it said, "obviously the public, or a large part of it, seeing this trade-mark on a syrup, would conclude that it was made by the complainant; perhaps they might not do so if it were used for flat-irons. In this way the complainant's reputation is put in the hands of the defendants. It will enable them to get the benefit of the complainant's reputation and advertisement," (p. 410.) Of course, the court does not say syrup and flour are goods of the same descriptive properties, and of course there is no possibility of a man's being sold syrup when he wants flour. But the case illustrates the point that a new and original trade-mark must be treated very differently from a trade-mark which is generally old and well known and is only new in the association with a particular goods, such for instance as the word "Star," which has long been used as a trade-mark for hundreds of articles. (It should be noticed that the case of *Lawrence* v. *Dowden Co.*, 178 Fed. Rep., 73, cited by the appellant, and wherein tooth-brushes and clothes-brushes were held goods of the same descriptive properties, was not a trade-mark case at all.)

There are many cases, as *Anglo-American Co.* v. *General Electric Co.* (215 O. G., 325; 43 App. D. C., 385,) where the right of a later trader to apply a known trade-mark to other goods was denied because "their general qualities or characteristics were so nearly identical (with the previous goods) that the vending of each by two rival manufacturers under the same trade-mark would be likely to cause confusion, to the injury of the one first to adopt the mark and to the general public." The question of course was not whether one would purchase a Mazda gas-mantle in the belief that he was purchasing a Mazda electric lamp, but was whether there would be confusion as to the origin of these different articles; that is, whether the purchaser might buy the gas-mantle in the belief that it came from the same source from which he had known the electric lamps to come, whereby the trader in gas-mantles would profit by the reputation of the owner of the Mazda electric lamp trade-mark. In all cases where this principle has been applied I think it will be found that the mark in question was an original mark—one which before was unknown in the meaning it now has. If, for example, the electric-lamp maker's trade-mark had in the last cited case been "Excelsior," I doubt whether he could have prevented the registration of "Excelsior" to another for gas-mantles, because "Excelsior" has an innate meaning, and the public is accustomed to seeing that mark for various articles, and has been educated to make distinctions with respect to it.

In the present case the name or the picture of a lily had, probably because it is the symbol of purity, been previously used by various traders. Among other things, it had been applied to lard, meat, flour, codfish, etc., before Macy & Co. adopted it for anything. Each of these previous traders had a right confined to a more or less narrow field. Macy & Co. had no room to adopt the mark for any very broad field. When they adopted it for pork and beans for instance, they did not thereby acquire the right to extend to canned meat, and when they adopted it for macaroni, they could not expand to flour. They adopted it for oyster-cocktail sauce, chilli sauce, mock-turtle soup, and even clam-chowder, in the face of the previous use and registration for canned codfish. When they adopted it for tea, this was in the face of the use and previous registration of the term "Gold Lily" and the picture of a lily, for tea, (No. 17,547, Feb. 18, 1890.) The real question is then this; when one adopts a well-known and much-used symbol as a trade-mark for particular goods, after other traders have used it for other particular goods of the same general class, how broadly can he claim the right to exclude others from thereafter adopting the symbol for other particular goods of the same general category? Obviously he is not in the same position as one with an invented or origi-

nally preëmpted mark. He is not in a position to complain of the use of the mark by others on any goods whatever which the public might suppose to have originated with him; for he has himself adopted the mark for goods which might well have been supposed to have originated with the previous users. The registrant in his brief very pertinently asks:

"Is it any more within the natural expansion of the business of Macy & Co. to extend the use of this mark to coffee than it is within the natural expansion of the business of any of these other parties? Would a purchaser, seeing a can of White Lily coffee, a can of Lane-Libbey's [White Lily] codfish, a sack of Thornton & Chester's White Lily flour, a can of Dunlevy's White Lily lard and a can of Macy's Lily White tomatoes upon a grocer's shelf be any more justified in concluding the coffee to be Macy's product than he would in concluding it to be the product of one of the other parties named?"

In cases of this sort there seems to be no escape from the necessity of speculating as to what the public would think under the circumstances. It has long been customary with this Office to regard tea and coffee as goods of different descriptive properties, in view of the fact that coffee is generally known to have originated from widely different sources and to be produced by widely different processes, and it has been a general custom to place different marks upon them. If the question were one of possible confusion of goods, there would be no difficulty; but this is a case of possible confusion of reputations, which is another thing. To justify the cancelation prayed for it must be held that in 1917, Macy & Co. had the right to apply their "Lily White" mark to coffee, and moreover, that it was an injury to them when it was applied to coffee and registered by another. The damage to Macy & Co., moreover, must be a damage due to an invasion of their right, and not merely a damage due to the fact that they adopted a mark which was not capable of covering a broad field; evidently not capable of covering everything on the grocer's shelf.

While this mark has been registered over twenty times, not only for canned groceries, but for everything from medicines to hosiery, and from whetstones to gas-engines, (see foot-note,)* and while since the use by Macy & Co began, it has been used apparently without objection for such things as cocoa, (Zechnowitz, No. 118,610;) and while Macy & Co. appear to have used it for tea for twenty odd years, they yet never used it on their coffee, which was one of the principal lines of goods upon which they based their reputation. It is open to question whether Macy & Co. may not by laches have lost the right to object to others using a similar mark on coffee, especially since the registrant, New York Grocery Co., claims to have used the mark some fifteen years and its file shows that there was no opposition to its registration, and furthermore shows that a previous registration of the same mark for coffee (Zechnowitz, No. 80,014, Oct. 25, 1910) was canceled upon the admission of Zechnowitz that the registrant, New York Grocery Co., was the first user. There was apparently no objection by Macy & Co. to the registration for coffee or for cocoa. They themselves apparently have never registered the mark for any beverage whatever.

In view of this showing that Macy & Co. were never entitled to occupy any but a narrow field with their trade-mark "Lily White," and in view of their apparent acquiescence in the well established custom, both in the trade and in this Office, of considering tea and coffee to be goods of different descriptive properties, I can have no hesitancy in sustaining the Examiner and refusing to cancel the mark of the New York Grocery. I have noted the decision of the Court of Appeals of the District of Columbia in the case of *Walter Baker & Co.* v. *Harrison*, (32 App. D. C., 272; 138 O. G., 770, Dec. 22, 1908,) where coffee and cocoa were said to be goods of the same descriptive properties. This Office is of course bound to follow the decisions of that court; but I do not consider that that decision in any way settled the question now before me. In that case the Patent Office had dismissed on demurrer an opposition to registration of a trade-mark for coffee consisting of the picture of a Quaker woman carrying a cup on a waiter, on the ground that coffee was goods not of the same descriptive properties as cocoa, and the opposer had used substantially the same picture for a great many years for cocoa. The court found the marks "substantially the same design" and said it should have been left open to proof, as to whether the goods were so similar as to create confusion. The court was undoubtedly much impressed with the apparent attempt of the applicant for registration to profit by the reputation of the older user. It cited a case in which there was a plain attempt at piracy, Ames & Sons attempting to sell shovels in Australia under the name of "Collins & Co.," who had a well established reputation for edged tools.

The party who later adopted the picture of a Quaker woman for coffee had no reason for doing so except to profit by the reputation of Baker & Co. It was clearly not a case to be dismissed without proofs, particularly when the court was "forced to the conclusion that the appellee had some sinister motive in seeking to register this mark." If, however, the court had had before it a case in which the picture of a Quaker woman carrying a cup on a waiter had been used by others before Baker & Co. adopted it, as a trade-mark, let us say, for tea; and if furthermore it had been a mark which was very common for various goods because of its innate significance; then I am satisfied the decision would have been different. Indeed, in the later case of *Nestlé & Anglo-Swiss Co.* v. *Baker & Co.* (37 App. D. C., 148; 167 O. G., 765,) this court itself drew the distinction between an originator and a copier of a device used as a trade-mark, though it was there discussing the confusion of the marks themselves rather than confusion of the fields occupied by the marks. In short, I am satisfied that the court will determine whether two given lines of goods are "goods of the same class" or "goods of the same descriptive properties," as depending largely upon the scope of the trade-mark right of the previous user, and also upon the innate meaning, or lack of innate meaning, of the trade-mark itself. I conclude that the New York Grocery Company had the right to appropriate its mark "White Lily" for coffee at the time of its application for registration, and therefore affirm the decision of the examiner.

*The registered marks referred to are the following: Lily White W. C. Co., 18,869, Jan. 20, 1891, (washing compound;) Dunlevy & Bro., 20,631, Jan. 26, 1892, (lard;) Pike Mfg. Co., 23,448, Aug. 1, 1893, (whetstones;) Dunlevy & Bro., 40,452, May 26, 1903, (meats;) Thornton & Chester M. Co., 45,938, May 5, 1905, (flour;) F. T. Hopkins, 51,613, Apr. 17, 1906, (face powder—since 1850;) White Lily Washer Co., 56,293, Sept. 4, 1906, (gas-engines;) Lane-Libbey Fishing Co., 73,620, Apr. 27, 1909, (cured codfish;) Townsend & Co., 83,449, Sept. 12, 1911, (hosiery.)

U. S. Circuit Court of Appeals—Seventh Circuit.

MINNEAPOLIS KNITTING WORKS *v.* MARSHALL FIELD & CO.

Decided January 6, 1920.

263 Fed. Rep., 987.

PATENTS—INVENTION—ADAPTATION OF IMPROVEMENT IN CHILD'S WAIST TO INFANT'S BAND.

The adaptation of the inelastic reinforcing-tape with tabs of a child's knitted waist, to which buttons are sewed for the purpose of supporting lower garments, to an infant's band designed to support the napkin, the lower garment appropriate to the infant, *Held* devoid of invention. The Ovenshire patent, No. 800,237, *Held* void.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Illinois.

Suit in equity by the Minneapolis Knitting Works against Marshall Field & Co. Decree for defendant, and complainant appeals. Affirmed.

Mr. Frank Parker Davis for the appellant.

Mr. George L. Wilkinson for the appellee.

Before BAKER, MACK, and PAGE, Circuit Judges.

MACK, *Cir. J.:*

This appeal is from a decree dismissing for want of equity, the bill to enjoin infringement of claim 2 of Letters Patent No. 800,237 for improvement in infants' bands or shirts. The decree finds the claim valid, but not infringed.

The claim reads as follows:

A band or shirt comprising a tubular body of elastic knitted fabric provided with shoulder pieces or straps 3 and inelastic strips or tapes 4 extending over said shoulder pieces and diagonally downward over the front and rear of the body to central points near the bottom thereof, and suitable tabs secured at the lower ends of said tapes.

The Letters Patent were issued September 26, 1905, on application filed January 23, 1905. Contemporaneously there were issued Letters Patent No. 800,618 applied for by the same inventor on April 24, 1905. Claim 1 of the patent in suit was introduced into the application therefor by amendment, after its rejection as a claim in the other application, and after the allowance of claim 2 now in suit. They differ only in one respect: that the band or shirt in claim 1 is not limited to a tubular body. In the course of the second application, the claims of which had originally been rejected as not being patentable over the other allowed application, counsel for the applicant stated that—

the novelty of the claims in both cases is not included in the description of the opening in the front of the garment or its omission. The inelastic strips or tapes and the tabs secured to the lower ends of the tapes constitute the novel features of the claims.

The object of the invention in suit, as specified, is to provide an elastic tubular band or garment having means for securing a napkin (diaper) thereto; the inventor, however, expressly states that while he has—

described the invention as applied to an infant's band or shirt, it may, of course, be applied to a shirt designed for use of adults.

The specifications describe the invention consisting of—

generally in a band or shirt having a tubular body of elastic knitted fabric with inelastic tapes or strips extending over the shoulder pieces thereof and extending diagonally downward on the front and back to central points near the bottom of the garment and with inelastic tabs secured to the lower ends of said tapes.

While defendant was notified in 1911 of a claim of infringement of both patents, suit was not commenced until 1917. Though plaintiff may not thereby be chargeable with laches, testimony of defendants' disinterested witnesses, based on memory, should not be deemed untrustworthy, when, in the interim, their old corporate books of account were destroyed as no longer of any perceptible value. Despite some discrepancies in the testimony, we are satisfied that the Fogarty waist was made and sold publicly more than two years prior to the application for the patent in suit, and that, except for the fact that it was a shirt, and not an infant's band, it completely anticipates the alleged invention.

In our judgment there is no invention whatsoever in the adaptation of the inelastic reinforcing-tape with tabs of a knitted child's waist, to which buttons are sewed for the purpose of supporting lower garments, whether that waist be open front or back, or tubular, to the infant's band designed to support the napkin, the lower garment appropriate to the infant. If this were otherwise not clear, it would be apparent from the specifications of the patent in suit, according to which the invention is "of course" applicable to a shirt designed for the use of adults, and therefore necessarily designed for supporting the usual undergarments worn by adults.

While it becomes unnecessary to consider the question of infringement, we do not intend, by affirming the decree dismissing the bill for want of equity, to assent to the finding that defendant could escape the charge of infringement merely by the substitution of an elastic tape so attached as to be decidedly less elastic than the knitted body, or by forming the tab out of a continuation of the tape, instead of by attaching a separate piece of tape.

Decree affirmed.

Court of Appeals of the District of Columbia.

IN RE SCHOLL MANUFACTURING COMPANY, INC.

Decided June 2, 1920.

1. TRADE-MARKS — DESCRIPTIVE REPRESENTATION OF ARCH-SUPPORT.

A mark for instep-supports consisting of a representation of the outline of a shoe broken away at the bottom and disclosing at the portion broken away an arch-support supported by the thumb, index and middle fingers of a hand, *Held* merely descriptive; *Held* also that even if it were permissible to disclaim the representation of the arch-support it would still be descriptive.

2. SAME — REGISTRABILITY — DISCLAIMER OF INTEGRAL PART OF MARK NOT PERMISSIBLE.

Registration of a mark for instep-supports consisting of a representation of the outline of a shoe broken away at the bottom and disclosing at the portion broken away an arch-support supported by the thumb, index and middle fingers of a hand, *Held* not registrable upon disclaimer of the representation of the arch-support, because what is left would not be the mark which had been used and because the remaining part of the mark is also descriptive.

3. SAME—EVIDENCE OF EXTENSIVE USE NOT PERTINENT ON QUESTION OF DESCRIPTIVENESS.

Evidence of extensive use of a mark or that several traders have not heard of its use by others does not tend to prove in the least that it is not descriptive.

Mr. J. H. Milans and *Mr. C. T. Milans* for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

SMYTH, *C. J.:*

Scholl applied to have registered as a trade-mark for instep-supports a drawing of which this is a copy:



He alleged use of the mark from 1912. In the statement accompanying the application he said that he made no claim to the representation of the arch-support. The application was rejected on the ground that the mark was a descriptive device. The trade-mark statute (33 Stat. L., 725, chap. 592, sec. 5) declares that—

no mark which consists merely in words or devices which are descriptive of the goods with which they are used—

shall be registered. The mark of the applicant is a device and is merely descriptive. We agree with the Examiner of Trade-Marks and Designs that it is—

an apt and convenient way of describing the characteristics of the arch support and of the benefits to be derived from using the same, and it would be most natural for other manufacturers to use or want to use the same sort of picture to describe or advertise a similar mark.

The disclaimer does not help the applicant, for two reasons: (1) What would remain after the representation of the arch-support had been removed would not be the mark which he had used on his goods, but only a part of it. It would be a different mark—one that he had not used, and hence he would not be entitled to register it. (*Id.*, sec. 1.) (2) Even if that were not so, the remaining part would "still inform the beholder," as the Assistant Commissioner ruled, "that the goods so marked were supports for the instep," and hence would be descriptive.

It is immaterial that the device has been extensively used by the applicant, or that several traders have not heard of its being used by others, for these things do not tend to prove, even in the least, that it is not descriptive. Being descriptive, the statute forbids its registration.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 25, 1920.

The Stampede Company, Limited, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eugene A. Tuchschmidt, of 113 and 115 Locust street, St. Louis, Mo., for registration of a trade-mark and trade-mark registered November 18, 1919, No. 127,689, to The Stampede Company, Limited, of St. Paul, Minn., and a notice of such declaration sent by registered mail to The Stampede Company, Limited, at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Stampede Company, Limited, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 25, 1920.

Louis Robinson, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Brownstein-Louis Company, of 716–722 South Los Angeles street, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered November 27, 1906, No. 57,799, to Louis Robinson, of New York, N. Y., and a notice of such declaration sent by registered mail to said Louis Robinson at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Louis Robinson, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1920.

Harris Wolf, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Wolfinger Knitting Mills, Walnut and Rose streets, Reading, Pa., for registration of a trade-mark and trade-mark registered March 10, 1891, No. 19,153, to Harris Wolf, Chicago, Ill., and a notice of such declaration sent by registered mail to said Harris Wolf at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Harris Wolf, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF JULY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Advertising-frame. F. Newhouse. No. 1,346,969; July 20; v. 276; p. 445.
Aeroplane construction. H. G. Hooper. No. 1,347,040; July 20; v. 276; p. 459.
Air and non-condensable gases, Apparatus for exhausting. A. E. L. Scanes. No. 1,346,980; July 20; v. 276; p. 447.
Aircraft for receiving and delivering mail and merchandise, Apparatus on. E. C. Hanson. No. 1,347,157; July 20; v. 276; p. 481.
Airplane. T. L. Eggleston. No. 1,347,084; July 20; v. 276; p. 468.
Airplane-launching apparatus. L. J. Le Mesurier. No. 1,347,105; July 20; v. 276; p. 471.
Ammonia to nitric acid, Oxidizing. A. Henwood. No. 1,347,158; July 20; v. 276; p. 482.
Ammonia to nitric acid, Oxidizing. A. Henwood. No. 1,347,159; July 20; v. 276; p. 482.
Ammonium chlorid, Method of and apparatus for recovering. M. E. Mueller. No. 1,346,967; July 20; v. 276; p. 445.
Animal-exterminator. J. W. Van Meter. No. 1,347,310; July 20; v. 276; p. 512.
Antifriction-buffer. L. Larsen. No. 1,347,389; July 20; v. 276; p. 527.
Antisetting device. A. M. Griffey. No. 1,346,954; July 20; v. 276; p. 442.
Arbor, Expanding. E. Hottinger. No. 1,346,890; July 20; v. 276; p. 429.
Arbor, Expanding. C. F. Sherman. No. 1,346,917; July 20; v. 276; p. 435.
Arbor-press. K. R. Wilson. No. 1,346,868; July 20; v. 276; p. 425.
Ash receiver and sifter. P. H. Childress. No. 1,346,809; July 20; v. 276; p. 413.
Auto-chassis. G. L. Kline. No. 1,347,337; July 20; v. 276; p. 517.
Automobile accelerator. C. L. Mitchell. No. 1,347227; July 20; v. 276; p. 495.
Automobile-jack. J. W. Paxson. No. 1,347,228; July 20; v. 276; p. 495.
Automobile-lock. F. C. H. Eichorn. No. 1,347,262; July 20; v. 276; p. 503.
Automobile-lock. W. S. Jameson. No. 1,347,463; July 20; v. 276; p. 542.
Automobile-sander. A. and O. Teuscher. No. 1,347,306; July 20; v. 276; p. 511.
Automobile signal device. S. S. Howell. No. 1,347,274; July 20; v. 276; p. 505.
Automobile signal mechanism. D. Thibeault. No. 1,347,063; July 20; v. 276; p. 464.
Automobile traction device. W. H. Ferch. No. 1,346,813; July 20; v. 276; p. 414.
Automobiles, Road-shoe for. L. S. Robbins and W. E. Gilmore. No. 1,347,405; July 20; v. 276; p. 531.
Ax-handle shield and fastening. W. T. Hatten. No. 1,347,371; July 20; v. 276; p. 524.
Axle radius-rod structure, Front-. T. H. Jacob. No. 1,347,286; July 20; v. 276; p. 507.
Bag: *See*—
Paper bag.
Bags, purses, and the like, Fasteners for. H. Edmonds. No. 1,347,364; July 20; v. 276; p. 523.
Balance-pivot straightener. H. Haefliger. No. 1,347,155; July 20; v. 276; p. 481.
Ball: *See*—
Rubber ball.
Bank-drafts and other documents, Perforating-machines for. G. A. Crocco. No. 1,347,445; July 20; v. 276; p. 539.
Banks, Amount-certification rubber check-stamp for. J. Derscha. No. 1,347,259; July 20; v. 276; p. 502.
Bar: *See*—
Cutter-bar.
Barber's chair. J. R. Emmert. No. 1,347,264; July 20; v. 276; p. 503.
Batten-clamp, Adjustable. E. Gee and R. L. Burns. No. 1,347,023; July 20; v. 276; p. 456.
Battery-charging system, Automatic. F. E. Case. No. 1,347,323; July 20; v. 276; p. 515.
Battery-filling machine. L. A. Freedman. No. 1,346,948; July 20; v. 276; p. 441.
Bearing, Automatically-adjustable. T. Christiani. No. 1,347,443; July 20; v. 276; p. 538.
Bearing, Center-support. O. F. Carlson. No. 1,347,077; July 20; v. 276; p. 466.
Bearing-plate, Removable. B. H. Canady. No. 1,347,248; July 20; v. 276; p. 499.
Bed, Auto-porch. P. C. Schaefer. No. 1,347,413; July 20; v. 276; p. 532.
Bed, Auto-porch. P. C. Schaefer, H. D. Hulse, and G. M. Livingstone. No. 1,347,412; July 20; v. 276; p. 532.
Bed, Combination-. F. Juszczak. No. 1,346,896; July 20; v. 276; p. 430.
Bed, Combination screen-. A. W. McCreary. No. 1,347,393; July 20; v. 276; p. 528.
Bed-rail fastener. M. B. Okun. No. 1,346,908; July 20; v. 276; p. 433.
Beds, Folding attachment for. F. Eberl. No. 1,347,447; July 20; v. 276; p. 539.
Bedsteads, Table attachment for. W. L. Hartman. No. 1,347,271; July 20; v. 276; p. 505.
Belting fabric. C. H. Dankmeyer. No. 1,347,254; July 20; v. 276; p. 501.
Bending-brake. H. C. Dreis. No. 1,347,474; July 20; v. 276; p. 544.
Binder, Loose-leaf. L. R. Lewis. No. 1,347,342; July 20; v. 276; p. 518.
Bird-cages, Wall-molding hanger for. A. Burrows. No. 1,347,009; July 20; v. 276; p. 453.
Block: *See*—
Segment-block.
Block mold, Corner-. F. Creason. No. 1,347,015; July 20; v. 276; p. 454.
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Inkstand. J. Erdoes and E. Sas. No. 55,851; July 20; v. 276; p. 551.
Inkstand. F. A. Fuller. No. 55,857; July 20; v. 276; p. 552.
Inkstand. G. Thomas. No. 55,898; July 20; v. 276; p. 559.
Lamp. H. H. Wolter. No. 55,919; July 20; v. 276; p. 562.
Lamp. H. H. Wolter. Nos. 55,921–4; July 20; v. 276 p. 563.
Lighting-fixture plate. F. Schwartz. Nos. 55,889–90; July 20; v. 276; p. 557.
Lighting-fixture plate. F. Schwartz. No. 55,899; July 20; v. 276; p. 559.
Load-measuring device. F. J. Troll. No. 55,901; July 20; v. 276; p. 559.
Monument, Tower-. B. A. Wise. No. 55,920; July 20; v. 276; p. 562.
Paper, Embossed wall-. W. F. Roehlen. No. 55,887; July 20; v. 276; p. 557.
Phonograph-cabinet. H. Orsenigo. Nos. 55,875–9; July 20; v. 276; p. 555.
Piano key-bed. H. J. Sandlass. No. 55,888; July 20; v. 276; p. 557.
Ring, Finger-. J. Simmons. No. 55,893; July 20; v. 276; p. 558.

Rug. A. H. Waldo. Nos. 55,902–18; July 20; v. 276; pp. 559–62.
Statue. P. Montana. No. 55,872; July 20; v. 276; p. 554.
Stirring-rod or similar article. J. Hirsch. No. 55,861; July 20; v. 276; p. 552.
Support. H. H. Wolter. No. 55,925; July 20; v. 276; p. 564.
Table. G. Poll. No. 55,884; July 20; v. 276; p. 556.
Talking-machine cabinet. H. B. Miles. No. 55,871; July 20; v. 276; p. 554.
Tire-tread, Automobile. A. L. Breitenstein. No. 55,842; July 20; v. 276; p. 549.
Toy figure. F. K. Reynolds. No. 55,886; July 20; v. 276; p. 557.
Toy rattle. C. H. Pajeau. No. 55,880; July 20; v. 276; p. 556.
Toy wagon. E. H. Badgley. Nos. 55,838–9; July 20; v. 276; p. 548.
Trousers and boot, Combined. W. L. Fry. No. 55,856; July 20; v. 276; p. 552.
Urn, Garden-. C. E. Jenkins. No. 55,864; July 20; v. 276; p. 553.
Valves, Handle for muffler-. A. R. Cooper. No. 55,846; July 20; v. 276; p. 550.
Vanity-case, Lady's. A. C. Fisher. No. 55,852; July 20; v. 276; p. 551.
Vehicle, Child's. L. F. and O. G. Noirot. No. 55,874; July 20; v. 276; p. 555.
Velocipede, Child's. V. E. and O. L. La Vanway. No. 55,865; July 20; v. 276; p. 553.
Vending-machine. J. H. Egan. No. 55,848; July 20; v. 276; p. 550.
Watch case and bow. J. McGrevy. No. 55,870; July 20; v. 276; p. 554.
Windshield. F. S. Tew. No. 55,897; July 20; v. 276; p. 558.

ALPHABETICAL LIST OF TRADE-MARKS.

Apparel, Female. Bloom & Moses. No. 133,214; July 20; v. 276; p. 589.
Aprons, Women's. L. Schreiber. No. 133,315; July 20; v. 276; p. 592.
Automobile-body polish and cleaner. Park Chemical Company. No. 133,295; July 20; v. 276; p. 592.
Bathing-suits, sweaters, and jerseys. The Campe Corporation. No. 133,223; July 20; v. 276; p. 589.
Battery-cell testers, testing instruments, Electric-. Service Station Supply Co. No. 133,320; July 20; v. 276; p. 592.
Belting, hose, &c. Chicago Pneumatic Tool Company. No. 133,226; July 20; v. 276; p. 590.
Belting, hose, machinery packing, and non-metallic tires. Polson Rubber Co. No. 133,301; July 20; v. 276; p. 592.
Building and roofing purposes, Composition strips and sheets for. Cleveland-Akron Bag Company. No. 133,229; July 20; v. 276; p. 590.
Buildings and structural elements thereof, Permanent. H. K. Ferguson Company. No. 133,244; July 20; v. 276; p. 590.
Bricks and building-blocks. H. J. F. Ludeman. No. 133,274; July 20; v. 276; p. 591.
Cabinets and parts of same, Filing-. National Cash Register Company. No. 133,291; July 20; v. 276; p. 591.
Cabinets for storage and filing purposes, Steel. Hart & Hutchinson Company. No. 133,257; July 20; v. 276; p. 590.
Cabinets, Kitchen-. Vincennes Furniture Mfg. Co. No. 133,336; July 20; v. 276; p. 593.
Canned vegetables. California Packing Corporation. No. 133,222; July 20; v. 276; p. 589.
Chains for motor-trucks, &c., Power-driven transmission or drive. Baldwin Chain and Manufacturing Company. No. 133,210; July 20; v. 276; p. 589.
Cigarettes. Liggett & Myers Tobacco Company. No. 133,272; July 20; v. 276; p. 591.
Cigarettes. Russian Tea Room & Art Shop. Nos. 133,311–13; July 20; v. 276; p. 592.
Cigarettes. Standard Export Cigarette Corporation. No. 133,324; July 20; v. 276; p. 592
Cigarettes. Tobacco Products Corporation No. 133,331; July 20; v. 276; p. 593.
Cigars. A. Garcia. No. 133,247; July 20; v. 276; p. 590.
Cigars. Harkert Cigar Co. No. 133,255; July 20; v. 276; p. 590.
Cigars. J. J. Mauser. No. 133,280; July 20; v. 276; p. 591.
Cigars. Kirschbaum Company, The. No. 133,269; July 20; v. 276; p. 591.
Cigars. Perfecto Manufacturers. Nos. 133,299–300; July 20; v. 276; p. 592.
Clothes, Men's and young men's. Morris Marans Sons. No. 133,278; July 20; v. 276; p. 591.
Clothing. Guiterman, Rosenfeld & Company. No. 133,252; July 20; v. 276; p. 590.
Clothing. United Stay Company. No. 133,334; July 20; v. 276; p. 593.
Clothing. Wise Bros. No. 133,344; July 20; v. 276; p. 593.
Clothing and wearing-apparel, Boys'. New York Boys' Shops. No. 133,292; July 20; v. 276; p. 591.
Clothing, Boys' outer. American Novelty Wash Suit Co. No. 133,205; July 20; v. 276; p. 589.
Clothing for boys and young men. Sears, Roebuck and Co. No. 133,317; July 20; v. 276; p. 592.
Clothing for ladies, misses, and children. J. A. Migel, Inc. No. 133,283; July 20; v. 276; p. 591.
Coats, outer vests, and work-shirts for men. Johnson-Bostwick & Co. No. 133,264; July 20; v. 276; p. 591.
Concrete, Prepared bituminous. M. Moulton, Jr. No. 133,287; July 20; v. 276; p. 591.
Concrete slabs, Composition for making. The National Builders Company. No. 133,290; July 20; v. 276; p. 591.
Construction material. Celite Products Company. No. 133,225; July 20; v. 276; p. 589.
Construction material. The Cleveland-Akron Bag Co. No. 133,228; July 20; v. 276; p. 590.
Construction material. The Lehon Company. No. 133,271; July 20; v. 276; p. 591.
Construction materials. Weyerhaeuser Forest Products. No. 133,341; July 20; v. 276; p. 593.
Cots and couches. Bernstein Manufacturing Company. No. 133,212; July 20; v. 276; p. 589.
Cotton and knit piece goods, muslins, ribbons, webs, and webbing, &c. Rider Wallis Dry Goods Co. No. 133,308; July 20; v. 276; p. 592.
Couches, Extension or sliding. The United States Spring Bed Company. No. 133,333; July 20; v. 276; p. 593.
Cushions, Furniture-. S. Karpen & Bro. No. 133,266; July 20; v. 276; p. 591.
Cutlery, machinery, and tools, and parts thereof. John Kenyon & Co. (Sheffield.) No. 133,267; July 20; v. 276; p. 591.
Draperies and decorative fabrics. Marshall Field & Company. No. 133,279; July 20; v. 276; p. 591.
Dresses. I. Mittelman & Co. No. 133,286; July 20; v. 276; p. 591.
Dresses. Langfelder & Shrier. No. 133,270; July 20; v. 276; p. 591.
Dresses and skirts. The Friedman-Haas Co. No. 133,246; July 20; v. 276; p. 590.
Dresses, Women's, misses', and children's. R. H. Macy & Co. No. 133,275; July 20; v. 276; p. 591.
Driers, filters, and separators and parts thereof, Centrifugal. S. S. Hepworth Company. No. 133,259; July 20; v. 276; p. 590.
Engines and parts thereof, Explosive-. The Burnett-Larsh Manufacturing Company. No. 133,221; July 20; v. 276; p. 589.
Explosives, Granular and gelatinous. E. I. Du Pont de Nemours & Company. No. 133,238; July 20; v. 276; p. 590.
Fabrics, Textile. W. S. Gavey. No. 133,248; July 20; v. 276; p. 590.
Fancy goods, furnishings, and notions. Joseph Louis & Co. No. 133,265; July 20; v. 276; p. 591.
Felt for construction purposes, Prepared. J. H. Stone. No. 133,327; July 20; v. 276; p. 593.
Furnace structures, Refractory lining for. Quigley Furnace Specialties Co. No. 133,304; July 20; v. 276; p. 592.
Furniture and woodwork, Polish for. F. A. Rader. No. 133,305; July 20; v. 276; p. 592.
Flooring, Lumber and hardwood. The Mowbray & Robinson Company. No. 133,288; July 20; v. 276; p. 591.
Floors and stuccos of magnesite base, Composition. G. B. Smith. No. 133,321; July 20; v. 276; p. 592.
Flour, Wheat-. The Commercial Milling Co. No. 133,230; July 20; v. 276; p. 590.
Ginghams, cotton goods, silk and cotton goods in the piece. Sanger Brothers. No. 133,314; July 20; v. 276; p. 592.
Gloves. The Biltwell Glove Company. No. 133,213; July 20; v. 276; p. 589.
Gloves and mittens, Leather and cloth. Wisconsin-Pilot Glove Company. No. 133,343; July 20; v. 276; p. 593.
Hair-nets. Hartmann Brothers. No. 133,258; July 20; v. 276; p. 590.
Hardware and plumbing and steam-fitting supplies. Aktiebolaget Arca Regulator. No. 133,202; July 20; v. 276; p. 589.
Hardware and plumbing and steam-fitting supplies. S. J. Chesnau. No. 133,253; July 20; v. 276; p. 590.
Hardware and plumbing and steam-fitting supplies. Tew Patent Development Company. No. 133,330; July 20; v. 276; p. 593.
Hardware and plumbing and steam-fitting supplies. The Farm Equipment Co. No. 133,243; July 20; v. 276; p. 590.
Hosiery. A. A. Wuest. No. 133,347; July 20; v. 276; p. 593.
Hosiery. Dalton Hosiery Mills. No. 133,232; July 20; v. 276; p. 590.

Hosiery and underwear for men, women, and children. C. W. Taves Co. No. 133,329; July 20; v. 276; p. 593.
Hosiery, Women's. Wayne Knitting Mills. No. 133,285; July 20; v. 276; p. 591.
Ice-cream. Ivan B. Nordhem Company. No. 133,293; July 20; v. 276; p. 591.
Keys and locks. Segal Lock & Hardware Co. No. 133,318; July 20; v. 276; p. 592.
Lard substitute. Hodgson Oil Refining Co. No. 133,261; July 20; v. 276; p. 591.
Lathes, Engine-. South Bend Lathe Works. No. 133,323; July 20; v. 276; p. 592.
Lenses, Ophthalmic, &c. American Optical Company. Nos. 133,206–8; July 20; v. 276; p. 589.
Letters or numbers. Chas. F. Lorenzen & Co. No. 133,273; July 20; v. 276; p. 591.
Locks. Miller Lock Company. No. 133,284; July 20; v. 276; p. 591.
Locks, Door-rim, desk, berth, &c. Adams & Westlake Company. No. 133,201; July 20; v. 276; p. 589.
Mattresses, pillows, springs. Greenpoint-Southern Company. No. 133,251; July 20; v. 276; p. 590.
Metals and metal castings and forgings. American Iron Products Company. No. 133,204; July 20; v. 276; p. 589.
Metals, Antifriction Babbitt. Ohio Metal Co. No. 133,294; July 20; v. 276; p. 592.
Milling-cutters, reamers, twist-drills, and taps. E. G. Wrigley & Co. Nos. 133,345–6; July 20; v. 276; p. 593.
Motors, Internal-combustion. The Rollaway Company. No. 133,310; July 20; v. 276; p. 592.
Neckties, cravats, mufflers, and collars. Rice-Stix Dry Goods Company. No. 133,307; July 20; v. 276; p. 592.
Oil, Olive-. D. Mangrané. Nos. 133,276–7; July 20; v. 276; p. 591.
Oil, Substitute for linseed-. The Hulbert Oil & Grease Co. No. 133,262; July 20; v. 276; p. 591.
Paint, Anti-corrosive. Corrosanti Chemical Co. No. 133,231; July 20; v. 276; p. 590.
Paint for acoustical work, Coating-. J. H. Stone. No. 133,328; July 20; v. 276; p. 593.
Paints and painters' materials. The Imperial Varnish and Color Company. No. 133,263; July 20; v. 276; p. 591.
Paints, driers, wood-stains, &c. The Patterson-Sargent Company. Nos. 133,296–7; July 20; v. 276; p. 592.
Paints, paint-oils, varnishes, shellacs, lacquers, and finishes. A. R. Haeuser Co. No. 133,254; July 20; v. 276; p. 590.
Pajamas and nightgowns. Ely & Walker Dry Goods Company. No. 133,241; July 20; v. 276; p. 590.
Pajamas, union-pajamas, sleeping and lounging garments, and night-shirts. M. Harris. No. 133,256; July 20; v. 276; p. 590.
Pastry, Cup or dish-like receptacles, fried or baked. The F. Beaumont National-Croustade Manufacturing Company. No. 133,211; July 20; v. 276; p. 589.
Pens, Fountain ruling-. Designers Instrument Company. No. 133,235; July 20; v. 276; p. 590.
Piano and automobile polish. Emil Wiederhold & Bro. No. 133,342; July 20; v. 276; p. 593.
Picture films, Moving-. L. E. Davidson. No. 133,233; July 20; v. 276; p. 590.
Picture films, Moving-. The Bray Pictures Corporation. No. 133,218; July 20; v. 276; p. 589.
Picture films, Motion-. Selznick Pictures Corporation. No. 133,319; July 20; v. 276; p. 592.
Picture films showing animated drawings, Moving-. The Bray Pictures Corporation. No. 133,217; July 20; v. 276; p. 590.
Pipes and splicings, Wooden. D. Eichenfeld. No. 133,239; July 20; v. 276; p. 590.
Piston-rings. V. Plex Piston Ring Company. No. 133,337; July 20; v. 276; p. 593.
Polish for floors, furniture, woodwork, and automobile-bodies. The Standard Products Co. No. 133,325; July 20; v. 276; p. 592.
Preparation for hardening and waterproofing cement mixtures. Granitex Company. No. 133,250; July 20; v. 276; p. 590.
Printing-press inking-rollers. The B. F. Goodrich Company. No. 133,240; July 20; v. 276; p. 590.
Quilts, cotton and wool blankets, and traveling-rugs. Rogers, Hennessey & Jenkins. No. 133,309; July 20; v. 276; p. 592.
Rubber-soled shoes. Sears, Roebuck and Co. No. 133,316; July 20; v. 276; p. 592.
Scales, measuring-pumps, Computing. W. C. Pritchard. No. 133,303; July 20; v. 276; p. 592.
Seat-pads, Ventilating. E. J. Faber. No. 133,242; July 20; v. 276; p. 590.
Sewing-machines and parts thereof. Union Special Machine Company. No. 133,332; July 20; v. 276; p. 593.
Shingles. Chinook Lumber & Shingle Co. No. 133,227; July 20; v. 276; p. 590.
Shoes and slippers, Women's, misses', children's, infants', felt. George Borgfeldt & Co. No. 133,216; July 20; v. 276; p. 589.
Shoes, Leather, rubber, and canvas. Mrs. A. R. King. No. 133,268; July 20; v. 276; p. 591.
Signals for vehicles, Traffic-. Auto Indicator Company. No. 133,209; July 20; v. 276; p. 589.
Silk-filled crêpe de chine piece goods. Nathan and Cohen Co. No. 133,289; July 20; v. 276; p. 591.
Silk piece goods. S. Eiseman & Co. No. 133,240; July 20; v. 276; p. 590.
Skirts. Mazzei Skirt Co. No. 133,282; July 20; v. 276; p. 591.
Skylight-bars. Steelead Skylight Co. No. 133,326; July 20; v. 276; p. 593.
Spark-plugs. Brewster-Goldsmith Corp. Inc. No. 133,219; July 20; v. 276; p. 589.
Spectacles, eyeglasses, eyeglass-mountings, opthalmic lenses, &c. Wall & Ochs. No. 133,338; July 20; v. 276; p. 593.
Staybolt-taps. W. L. Brubaker & Bros. No. 133,220; July 20; v. 276; p. 589.
Suits, Boys'. Hessberg, Morris & Gunst. No. 133,260; July 20; v. 276; p. 591.
Sweaters, bathing-suits. Amer Knitting Mills. No. 133,203; July 20; v. 276; p. 589.
Tables and cabinets, Kitchen. Blue Bird Manufacturing Company. No. 133,215; July 20; v. 276; p. 589.
Tile, brick, and artificial stone. Formby Petrinite Corporation. No. 133,245; July 20; v. 276; p. 590.
Tire-pumps, Hand-operated. Mayo-Skinner Manufacturing Company. No. 133,281; July 20; v. 276; p. 591.
Tires. Universal Tire & Rubber Association. No. 133,335; July 20; v. 276; p. 593.
Tires, tire-casings, and inner tubes, Rubber. Canton Blackstone Company. No. 133,224; July 20; v. 276; p. 589.
Tires, tubes, boots, and tire-patches, Rubber and fabric vehicle-. Washington Tire & Rubber Company. Nos. 133,339–40; July 20; v. 276 p. 593.
Underwear, Knitted. De Milo Distributing Co. No. 133,234; July 20; v. 276; p. 590.
Underwear, Men's and boys'. W. D. Porter. No. 133,302; July 20; v. 276; p. 592.
Underwear, night-robes, dresses, and blouses, Women's and children's. M. E. Smith & Co. No. 133,322; July 20; v. 276; p. 592.
Varnish, Prepared liquid. The Don-O-Lac Co. No. 133,236; July 20; v. 276; p. 590.
Wall or partition sections or units. A. H. Revell & Co. No. 133,306; July 20; v. 276; p. 592.
Weatherproof coats. W. O. Peake Ltd. No. 133,298; July 20; v. 276; p. 592.
Wire and metallic strips of an allow containing manganese. Driver-Harris Company. No. 133,237; July 20; v. 276; p. 590.

ALPHABETICAL LIST OF LABELS.

"Denison's Original Famous Cancer Ointment." (For an Ointment for Cancer.) Alfred Denison & Son. No. 21,904; July 20; v. 276; p. 594.

"Franks." (For Frankforts—Namely, Sausages. Frank & Company. No. 21,905; July 20; v. 276; p. 594.

ALPHABETICAL LIST OF PRINTS.

"Watches That Run." (For Watches.) Adels-Rhakoff Co. Inc. No. 5,266; July 20; v. 276; p. 594.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Adhesive cements and mastics, paper, cloth, fabric, &c. A. C. Fischer. No. 130,816; July 20; v. 276; p. 580.
Air, Apparatus for evaporating, distilling, cooling, &c. Fr. Elsinger Fils. No. 125,278; July 20; v. 276; p. 575.
Alcohol, non-beverage grain. The George Weidemann Company. No. 127,878; July 20; v. 276; p. 575.
Bags, Paper. Atlanta Paper Company. No. 107,742; July 20; v. 276; p. 565.
Bathing caps, shoes, suits, hose, sweaters. Blum Bros. No. 130,873; July 20; v. 276; p. 581.
Bathing-suit bags of waterproof material. J. D. Farkas. No. 119,233; July 20; v. 276; p. 569.
Bathing-suits and one-piece union-suits, Ladies' knit. D. Nusbaum & Co. No. 129,276; July 20; v. 276; p. 578.
Beating and mixing machines, Electrically-driven. The Hobart Manufacturing Company. No. 133,144; July 20; v. 276; p. 587.
Beer. The Christian Moerlein Brewing Co. No. 103,215; July 20; v. 276; p. 565.
Belting, Flat leather. J. E. Rhoads & Sons. No. 130,979; July 20; v. 276; p. 581.
Beverage and syrups for making, Non-intoxicating non-cereal maltless fruit. California Kola Company. No 130,598; July 20; v. 276; p. 580.
Beverage, Malt cereal. Rainier Products Company. No. 120,069; July 20; v. 276; p. 569.
Beverage, Non-alcoholic maltless. J. A. Walsh. No. 129,199; July 20; v. 276; p. 578.
Beverage, Non-alcoholic non-cereal. Mid West Products Company. No. 120,575; July 20; v. 276; p. 570.
Beverages and syrups for making the same, Non-alcoholic non-cereal maltless, West End Brewing Co. Nos. 129,998–9; July 20; v. 276; p. 579.
Beverages and syrups for making the same, Non-alcoholic non-cereal maltless. French Bros. Co. No. 131,524; July 20; v. 276; p. 582.
Beverages and syrups for making the same, Non-alcoholic non-cereal maltless. West End Brewing Co. No. 129,992; July 20; v. 276; p. 579.
Beverages, Non-alcoholic non-cereal. C. Dambhorst Soda Water Co. No. 119,032; July 20; v. 276; p. 569.
Beverages, Non-intoxicating. California Grape Products Corp. No. 125,366; July 20; v. 276; p. 575.
Bicycles. The Davis Sewing Machine Co. No. 128,667; July 20; v. 276; p. 576.
Birch and root beers and sarsaparilla. Beech-Nut Packing Company. No. 128,825; July 20; v. 276; p. 577.
Blackings, polishes, and creams for all leather articles. Société Anonyme des Produits du Lion Noir. No. 118,619; July 20; v. 276; p. 567.
Blouses and shirts, Boys'. Cohn, Goldwater Company. No. 132,510; July 20; v. 276; p. 585.
Blouses, outer waists and shirt-waists. Maxine Manufacturing Company. No. 122,717; July 20; v. 276; p. 571.
Books and visiting cards, menus, &c., Printed. Tiffany and Company. No. 128,253; July 20; v. 276; p. 575.
Books, booklets, and pamphlets, Printed. International Committee of Young Men's Christian Associations. No. 120,212; July 20; v. 276; p. 578.
Books, Code-. American Code Company. No. 129,619; July 20; v. 276; p. 578.
Books, pamphlets, periodicals, circulars. The Order of Railroad Telegraphers. No. 91,480; July 20; v. 276; p. 565.
Boots, shoes, and slippers, Ladies'. Thomas Brown & Co., (Leicester.) No. 131,254; July 20; v. 276; p. 581.
Boots, shoes, slippers, and sandals. Shoecraft Shop. No. 124,768; July 20; v. 276; p. 572.
Brake-linings. Staybestos Manufacturing Company. No. 131,603; July 20; v. 276; p. 582.
Brake-linings. United & Globe Rubber Company. No. 121,683; July 20; v. 276; p. 570.
Brooms. M. G. Scoville Sons Company. No. 118,841; July 20; v. 276; p. 568.
Brooms. M. G. Scoville Sons Company. No. 118,850; July 20; v. 276; p. 568.
Brooms. M. G. Scoville Sons Company. No. 118,853; July 20; v. 276; p. 568.
Brushes, Shaving-. American Safety Razor Corporation. No. 124,827; July 20; v. 276; p. 572.
Calcareous composition for soil improvement. Security Cement & Lime Co. No. 119,089; July 20; v. 276; p. 569.
Candies. The Brecht Candy Co. No. 122,756; July 20; v. 276; p. 571.
Candies. C. Elliott. No. 121,662; July 20; v. 276; p. 570.
Candies and chocolates. Mason, Au & Magenheimer Conf. Mfg. Co. No. 131,435; July 20; v. 276; p. 582.
Candles. The Atlantic Refining Company. No. 131,298; July 20; v. 276; p. 581.
Candles, gasolene, graphite lubricant, &c. Chelsea Engineering Sales Corporation. No. 130,208; July 20; v. 276; p. 580.
Candy. B. J. Baum. No. 131,558; July 20; v. 276; p. 582.
Candy. Page & Shaw. No. 125,969; July 20; v. 276; p. 573.
Canned fruits and vegetables. Charles G. Summers & Co. No. 118,452; July 20; v. 276; p. 567.
Canned sugar-corn. Warrensburg Canning Company. No. 123,377; July 20; v. 276; p. 571.
Cards used in notifying members of fraternal and similar organizations, Printed, post, or similar. O. E. Ole. No. 125,722; July 20; v. 276; p. 573.
Catalogue known as a house organ. Mayer Brothers. No. 125,901; July 20; v. 276; p. 573.
Cells for filling pneumatic tires, Pneumatic. W. H. Richards. No. 129,677; July 20; v. 276; p. 578.
Cherries, Chocolate-covered. Palmer Candy Co. No. 128,369; July 20; v. 276; p. 576.
Chocolates. Rosner & Kanner. No. 118,707; July 20; v. 276; p. 568.
Cigarettes. The United Kingdom Tobacco Co. No. 111,891; July 20; v. 276; p. 566.
Cleaning compound for rugs, clothes, &c. Hy-Gn Manufacturing Co. No. 110,887; July 20; v. 276; p. 566.
Cleaning compounds, Rug, &c. The Mephisto Products Company. No. 124,223; July 20; v. 276; p. 572.
Cleaning, polishing, and preserving dressings for boots, shoes, gloves, &c. E-Jay-R-Mfg. Co. No. 116,650; July 20; 276; p. 567.
Coats, vests, and trousers. Ely & Walker Dry Goods Company. No. 131,021; July 20; v. 276; p. 581.
Coffee. The E. C. Harley Company. No. 127,913; July 20; v. 276; p. 575.
Collars. M. N. Mayehoff & Co. No. 126,481; July 20; v. 276; p. 573.
Colorings for sausage-casings and seasonings for sausage. California Casing Co. No. 129,042; July 20; v. 276; p. 578.
Combs. The Sani-Komb Corporation. No. 132,946; July 20; v. 276; p. 587.
Confections, Licorice. National Licorice Company. No. 125,120; July 20; v. 276; p. 575.
Cotton piece goods. Hinck & Muller. No. 132,922; July 20; v. 276; p. 586.
Cotton piece goods. Hinck & Muller. No. 132,924; July 20; v. 276; p. 587.
Cotton piece goods. Hunter Mfg. & Com. Co. No. 127,087; July 20; v. 276; p. 574.
Dental paste. C. G. King & Co. No. 131,073; July 20; v. 276; p. 583.
Directory, Buyer's. Textile Publishing Company. No. 128,906; July 20; v. 276; p. 577.
Drawing, Outfits for teaching and practice of. H. C. Mitchell. No. 120,010; July 20; v. 276; p. 569.
Dresses and aprons for women and children. Cooper, Coate & Casey Dry Goods Co. No. 126,105; July 20; v. 276; p. 573.
Dried commodities—viz., apples, apricots, peaches, &c., soup-vegetables, &c. Caladero Products Company. No. 131,381; July 20; v. 276; p. 581.
Embroideries, dress-trimmings. Richardson Dry Goods Co. No. 132,365; July 20; v. 276; 585.
Etchings, Printed multicolor. American colortype Company. No. 110,063; July 20; v. 276; p. 565.
Fats used as paint and varnish vehicles and driers. De Nordiske Fabriker, De-No-Fa, Aktieselskab. No. 120,986; July 20; v. 276; p. 570.
Fats used for fuel, illuminating, and lubricating purposes. De Nordiske Fabriker, De-No-Fa, Aktieselskab. No. 120,987; July 20; v. 276; p. 570.
Fenceposts, Metallic. B. Anderson. No. 131,622; July 20; v. 276; p. 583.
Fertilizer, agricultural lime, land-plaster, &c. Chas. W. Priddy & Company. No. 129,416; July 20; v. 276; p. 578.
Fish rods, reels, lines, &c. Marshall-Wells Company. No. 112,954; July 20; v. 276; p. 566.
Fish, Smoked. Karl Seiler & Sons. No. 131,504; July 20; v. 276; p. 582.

Flavoring compounds for soft drinks, Non-alcoholic non-cereal maltless. G. C. Boultbee. No. 130,114; July 20; v. 276; p. 579.
Flavoring substance. R. Frank. No. 126,926; July 20; v. 276; p. 574.
Fruit-juice extractors. Blessing Mfg. Co. No. 124,677; July 20; v. 276; p. 572.
Furnaces. Homer Furnace Company. No. 124,071; July 20; v. 276; p. 572.
Fuses, Removable. Pierce Fuse Corporation. No. 132,553; July 20; v. 276; p. 585.
Gloves and knitted underwear, Fabric. Saul Gelarie & Company. No. 130,216; July 20; v. 276; p. 580.
Grease, Lubricating-. Standard Oil Company. No. 132,883; July 20; v. 276; p. 586.
Guide-books, City. The Price & Lee Co. No. 123,524; July 20; v. 276; p. 571.
Hair-nets. W. Eliowitz. No. 133,963; July 20; v. 276; p. 588.
Hair nets manufactured from silk and hair. G. Vogel. No. 110,228; July 20; v. 276; p. 565.
Hair-straightener paste. G. T. Young. No. 128,379; July 20; v. 276; p. 576.
Hats, Ladies' trimmed, tailored, and sport. Simon Millinery Supply Co. Nos. 132,614–5; July 20; v. 276; p. 585.
Hats, Men's. Denzer, Goodhart & Co. No. 119,264; July 20; v. 276; p. 569.
Hones, Società Ceramica Richard-Ginori. Nos. 112,445–6; July 20; v. 276; p. 566.
Hosiery, Men's and boys'. S. J. Levy & Sons. No. 131,429; July 20; v. 276; p. 581.
Hosiery, Women's and misses'. S. J. Levy & Sons. No. 131,430; July 20; v. 276; p. 582.
House organ, Monthly. Zellerbach Paper Company. No. 127,147; July 20; v. 276; p. 574.
Ignition apparatus for automotive and internal-combustion engines, Induction-coils, &c., Electrical. Atwater Kent Manufacturing Company. No. 132,971; July 20; v. 276; p. 587.
Kerosene. The Texas Company. Nos. 132,152–4; July 20; v. 276; p. 584.
Labels, pamphlets, folders, &c., Printed. National Canners Association. No. 131,588; July 20; v. 276; p. 582.
Laces, and button-hooks, Shoe-. Thomas G. Plant Company. No. 132,609; July 20; v. 276; p. 585.
Lacings, galloons, and braids, Shoe-, &c. American Narrow Fabric Co. No. 133,757; July 20; v. 276; p. 588.
Lamps, Incandescent electric. H. W. McCandless & Company. No. 120,923; July 20; v. 276; p. 570.
Lamps, Tungsten and nitrogen electric. Turnbull Electric Manufacturing Company. No. 121,850; July 20; v. 276; p. 571.
Magazine, Monthly. Federal Motor Truck Company. No. 132,139; July 20; v. 276; p. 584.
Magazine, Monthly. The Ridgway Company. No. 123,587; July 20; v. 276; p. 571.
Magazine, Periodical. Farmer & Breeder. No. 118,378; July 20; v. 276; p. 567.
Marble and stone. C. D. Jackson & Co. Nos. 128,390–2; July 20; v. 276; p. 576.
Metal-polish. Société Anonyme des Produits du Lion Noir. No. 118,616; July 20; v. 276; p. 567.
Metal-polish. Société Anonyme des Produits du Lion Noir. Nos. 118,623–4; July 20; v. 276; p. 568.
Mouthpiece attachments for the transmitters of telephones. The Saniphone Company. No. 133,384; July 20; v. 276; p. 587.
Nainsooks, long-cloths and cambrics in the piece. Trippe, Barker & Co. No. 132,827; July 20; v. 276; p. 586.
New Testament edition. A. J. Holman Company. No. 126,903; July 20; v. 276; p. 573.
Newspaper, Daily business. The Penton Publishing Company. No. 128,017; July 20; v. 276; p. 575.
Oil, Lubricating-. Western Oil Refining Co. No. 130,077; July 20; v. 276; p. 579.
Oils and greases, Lubricating. Fiske Brothers Refining Co. No. 129,878; July 20; v. 276; p. 579.
Oils and greases, Lubricating. Robertson Lubricants Company. No. 132,809; July 20; v. 276; p. 586.
Oils, Lubricating-. Tiona Refining Company. No. 132,669; July 20; v. 276; p. 586.
Oils, Lubricating-. Vacuum Oil Company. No. 133,033; July 20; v. 276; p. 587.
Oils, Vegetable. Commercial Refining Co. No. 132,136; July 20; v. 276; p. 584.
Overalls. E. R. Deputy Company. No. 114,152; July 20; v. 276; p. 566.
Overalls. Sears, Roebuck & Co. No. 132,662; July 20; v. 276; p. 586.
Paper handkerchiefs. A. J. White Limited. No. 131,685; July 20; v. 276; p. 583.
Paper, paper towels, tissue and wrapping paper, &c., Toilet-. The John Hoberg Co. No. 130,041; July 20; v. 276; p. 579.
Paper, Writing-. Gilbert Paper Company. No. 122,532; July 20; v. 276; p. 571.
Pearls. E. Jacobson. No. 130,596; July 20; v. 276; p. 580.
Pen-points, Metallic. C. D. Roberts. Nos. 128,739–40; July 20; v. 276; p. 577.
Pens, lead-pencils, &c., Fountain, steel, and stylographic. W. J. May & Co. No. 123,748; July 20; v. 276; p. 571.
Periodical issued every four weeks, Section of a. Textile Publishing Company. No. 128,907; July 20; v. 276; p. 577.
Periodical, Monthly. Jaburg-Miller Co. No. 129,784; July 20; v. 276; p. 579.
Periodical, Sections of a monthly. Textile Publishing Company. No. 127,018; July 20; v. 276; p. 574.
Piston-rings. Victory Hammered Piston Ring Company. No. 127,021; July 20; v. 276; p. 574.
Plugs for electrical devices, Connecting-. Magnus Electric Co. No. 131,581; July 20; v. 276; p. 582.
Polish for furniture, automobiles, floors, and the like, Liquid. The Worth-More Polish Company. No. 130,736; July 20; v. 276; p. 580.
Printing or marking and communicating system and apparatus and parts thereof. The National Cash Register Company. No. 123,752; July 20; v. 276; p. 572.
Publication, Monthly. John W. Masury & Son. No. 132,442; July 20; v. 276; p. 585.
Publication, Monthly. The Penton Publishing Company. No. 128,016; July 20; v. 276; p. 575.
Publication, Monthly. The Penton Publishing Company. No. 128,020; July 20; v. 276; p. 575.
Publication, Monthly. Railroad Yardmasters of America. No. 130,614; July 20; v. 276; p. 580.
Publication, Section of a monthly. The Haberdasher Co. No. 128,776; July 20; v. 276; p. 577.
Publication, Quarterly. A. Stein & Company. No. 128,473; July 20; v. 276; p. 576.
Publication, Weekly. The Penton Publishing Company. No. 128,018; July 20; v. 276; p. 575.
Publications issued semi-annually. Johnson, Cowdin and Co. No. 130,479; July 20; v. 276; p. 580.
Razors and parts thereof and safety-razor blades, Safety-. Vic Manufacturing Corporation. No. 133,117; July 20; v. 276; p. 587.
Refrigerators. I. F. Stevens. No. 127,221; July 20; v. 276; p. 574.
Root-beer and the syrup therefor. The Cleveland Fruit Juice Company. No. 129,202; July 20; v. 276; p. 578.
Rum. W. H. Chaplin & Co. No. 120,600; July 20; v. 276; p. 570.
Shingles, Roofing-. Stowell Manufacturing Co. No. 133,634; July 20; v. 276; p. 587.
Shirts, pajamas, collars, &c. Alperin, Strauss & Co. No. 132,836; July 20; v. 276; p. 586.
Shoe-paste, Waterproof. B. J. Stanislawski. No. 128,174; July 20; v. 276; p. 575.
Shoes for men and boys. W. A. Withers. No. 118,947; July 20; v. 276; p. 569.
Shoes. J. Freidson. No. 132,599; July 20; v. 276; p. 585.
Shoes. S. Freiburger & Bro. Co. No. 132,634; July 20; v. 276; p. 586.
Shoes, Women's leather. H. E. Davis Co. No. 127,042; July 20; v. 276; p. 574.
Silk cloth in the piece. Vanity Fair Silk Mills. No. 124,675; July 20; v. 276; p. 572.
Silk, linen, woolen, and cotton piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 132,095; July 27; v. 276; p. 583.
Soap. Saberton Mfg. Co. No. 128,867; July 27; v. 276; p. 577.
Soap, Castile. United Drug Company. No. 127,619; July 20; v. 276; p. 574.
Soap-dispensers. U. S. Sanitary Specialties Corporation. No. 131,889; July 20; v. 276; p. 583.
Spark-plugs. Symms-Brownell Manufacturing Company. No. 133,379; July 20; v. 276; p. 587.
Stamps, Trading-. Browning & Sanders. No. 126,921; July 20; v. 276; p. 573.
Stove, range, &c., paste or polish. Société des Produits du Lion Noir. No. 118,626; July 20; v. 276; p. 568.
Stoves, Gas-. General Gas Light Co. No. 124,682; July 20; v. 276; p. 572.
Straws, Drinking-. Albert Pick & Company. No. 132,199; July 20; v. 276; p. 584.
Suits, Girls' play-. Jordan Marsh Company. No. 132,646; July 20; v. 276; p. 586.
Suits, Youths' and boys' ready-made. Goodman & Co. No. 121,111; July 20; v. 276; p. 570.
Suspenders. Arbuthnot-Stephenson Co. No. 130,314; July 20; v. 276; p. 580.
Talking-machine needle, Wooden. T. H. Legge. No. 131,640; July 20; v. 276; p. 583.
Telephone-receivers. The Magnavox Co. No. 132,879; July 20; v. 276; p. 586.
Tire, &c., patches. Henry R. Hoffeld. No. 115,026; July 20; v. 276; p. 566.
Tires and inner tubes. The Rotary Tire and Rubber Co. No. 118,275; July 20; v. 276; p. 567.
Tires and tire-casings. A. Reinsberg. No. 127,870; July 20; v. 276; p. 575.
Tires, Antiskidding rubber. P. Sangoff. No. 118,355; July 20; v. 276; p. 567.
Tires, Inner tubes for pneumatic. Surety Tire & Rubber Co. No. 120,436; July 20; v. 276; p. 569.
Tires, Rubber vehicle-. The Pan-American Rubber Co. No. 118,930; July 20; v. 276; p. 659.
Tobacco, Smoking and chewing. Liggett & Myers Tobacco Company. No. 109,117; July 20; v. 276; p. 565.

Trolling-lines, spinners, artificial minnows, &c. The Thomson-Diggs Co. No. 121,795; July 20; v. 276; p. 571.
Trousers. Wine Brothers and Company. No. 128,810; July 20; v. 276; p. 577.
Trunks, suitcases, and traveling-bags. Ely & Walker Dry Goods Company. No. 128,628; July 20; v. 276; p. 576.
Turpentine. Ernst Zobel Company. No. 131,616; July 20; v. 276; p. 583.
Underwear, night-shirts, shirts, and pajamas. M. Rothkopf. No. 128,701; July 20; v. 276; p. 576.
Waists and blouses, Ladies'. Einhorn Bros. No. 131,067; July 20; v. 276; p. 581.
Washing machines, Electric clothes-. C. F. Adams Company. No. 127,102; July 20; v. 276; p. 574.
Washing-tablets. Easy Wash Laundry Tablet Co. No. 121,336; July 20; v. 276; p. 570.
Watchcases. The Keystone Watch Case Company. No. 131,975; July 20; v. 276; p. 583.
Watches. J. Gottlieb. No. 131,110; July 20; v. 276; p. 581.
Woolen, mohair, &c., piece goods. Goodall Worsted Co. No. 116,837; July 20; v. 276; p. 567.

CLASSIFICATION OF PATENTS

ISSUED JULY 20, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

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219—	8:	1,347,184		205:	1,347,414	249—	2:	1,347,147	262—	30:	1,346,966
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	19:	1,347,013		269:	1,347,427		11:	1,347,440		34:	1,347,024
	38:	1,347,177		325:	1,347,302	251—	11:	1,346,887	264—	14:	1,347,276
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	26:	1,347,465		62:	1,347,409	253—	39:	1,347,343	267—	19:	R. 14,918
	60:	1,346,897	242—	72:	1,346,812			1,347,344			1,347,138
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224—	28:	1,346,964	244—	1:	1,347,157			1,347,327	268—	9:	1,347,193
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274—	1:	1,347,067		55:	1,346,850						
	10:	1,347,096	294—	25:	1,346,894						
	28:	1,347,050		30:	1,346,820						
	39:	1,347,113		60:	1,346,870						
277—	27:	1,346,984		93:	1,347,041						
279—	15:	1,347,036		96:	1,347,203						
280—	5:	1,347,051	295—	49:	1,347,280						
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	39:	1,347,169		90:	1,347,461						
281—	4:	1,347,225	298—	27:	1,347,375						
283—	57:	1,347,325	299—	47:	1,346,843						
285—	1:	1,346,925		86:	1,346,811						
	95:	1,347,470		141:	1,347,150						
286—	7:	1,347,388	301—	20:	1,347,128						
	33:	1,347,351		111:	1,346,857						
287—	36:	1,347,371	302—	53:	1,347,358						
	111:	1,347,111	303—	51:	1,346,859						
290—	23:	1,347,250		85:	1,346,861						
	41:	1,347,460	304—	11:	1,347,453						
291—	28:	1,347,306		12:	1,347,430						
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	230:	1,347,229									
	335:	1,347,251									

Patents Nos. 1,347,485 to 1,348,144.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

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Labels	20—No.	21,906 to No.	21,925, inclusive.
Prints	8—No.	5,267 to No.	5,274, inclusive.
Reissues	4—No.	14,925 to No.	14,928, inclusive.
Total	897		

Changes in Classification.

(Order No. 2,593.)

Department of the Interior,
United States Patent Office,
Washington, D. C., July 16, 1920.

It is hereby directed that class 191, Electricity—Transmission to Vehicles, be transferred from Division XLII to Division XXXIV, to take effect immediately.

R. F. WHITEHEAD,
Acting Commissioner.

Adverse Decisions in Interference.

Patent No. 1,258,548.

On June 17, 1920, a decision was rendered that Carl R. Englund was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,258,548, subject, "Radiotelephony," and no appeal having been taken within the time allowed such decision has become final.

Patent No. 1,273,148.

On June 25, 1920, a decision was rendered that James A. Carney was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,273,148, subject, "Headlight construction," and no appeal having been taken within the time allowed such decision has become final.

Patent No. 1,293,891.

On June 18, 1920, a decision was rendered that John F. O'Connor was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,293,891, subject, "Combined friction-shells and spring-casings," and no appeal having been taken within the time allowed such decision has become final.

Disclaimer.

1,317,868.—*Carleton Ellis*, Montclair, N. J. Process of making Derivatives of Petroleum-Hydrocarbons. Patent dated October 7, 1919. Disclaimer filed July 3, 1920, by the assignee, *Ellis-Foster Company*, and the patentee.

Enter their disclaimer and the disclaimer of each of them—

"To claim 17, which reads as follows:

"17. The process of making derivatives of hydrocarbons which comprises cracking petroleum to form olefin material, in treating said olefin material under such conditions as to form chlorin compounds and in contacting said chlorin compounds with a reagent capable of replacing chlorin."

NOTICE.

PAYMENT OF PATENT FEES—ACT OF MARCH 6, 1920.

Department of the Interior,
United States Patent Office,
Washington, D. C., June 25, 1920.

This Office has been advised by the Assistant Secretary of the Treasury that a circular letter is being forwarded to the Treasurer and Assistant Treasurers of the United States, Federal Reserve Banks, and National Bank depositaries calling attention to the act of Congress approved March 6, 1920, which requires that patent fees be paid directly to the Commissioner of Patents. (See 272 O. G., 379.)

J. T. NEWTON,
Commissioner.

APPLICATIONS UNDER EXAMINATION.

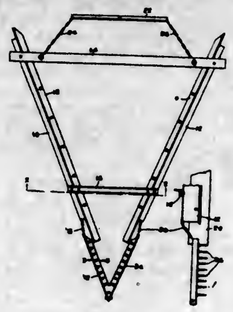
Condition at Close of Business July 17, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Mar. 1	515
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Nov. 21	Feb. 11	972
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 2	Jan. 6	624
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Nov. 12	Apr. 26	1,435
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Mar. 31	Apr. 2	402
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilisers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 24	Jan. 21	560
312	7. Games and Toys; Optics; Photography; Velocipedes	Mar. 19	May 8	840
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	May 5	June 7	352
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Feb. 9	Feb. 19	579
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 6	May 21	922
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Mar. 1	Mar. 29	773
222	12. Machine Elements	Nov. 13	Apr. 27	1,088
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 7	Apr. 30	1,199
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	Apr. 8	669
308	15. Bread, Pastry, and Confection Making; Coating; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 5	Apr. 13	1,145
111	16. Radiant Energy; Telegraphy; Telephony	Nov. 11	Dec. 11	885
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	May 3	May 8	194
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 12	Jan. 22	1,085
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Nov. 24	Jan. 26	611
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 13	Apr. 20	681
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 19	May 20	487
249	22. Aeronautics; Firearms; Ordnance	Apr. 22	May 22	284
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 6	Apr. 26	710
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 16	Apr. 23	634
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 14	June 4	216
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Nov. 7	Dec. 15	719
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Mar. 13	Apr. 5	613
225	28. Internal-Combustion Engines	Feb. 9	Apr. 15	657
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Dec. 3	May 21	685
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 10	June 1	1,138
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 10	Jan. 26	1,178
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Nov. 1	Apr. 5	1,227
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 3	Apr. 17	511
304	34. Electricity-Transmission to Vehicles; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	June 9	June 1	153
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	June 5	June 1	550
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 26	Feb. 17	1,152
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 3	Feb. 20	1,305
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Feb. 21	Apr. 24	759
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 15	Nov. 14	1,079
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 29	Feb. 25	816
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Dec. 3	Apr. 14	812
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Jan. 14	Mar. 3	1,131
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Dec. 11	Mar. 10	911
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Mar. 1	Apr. 13	293
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Jan. 14	Apr. 17	665
264	46. Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Jan. 15	May 3	479
332	47. Brakes; Clutches; Fluid Pressure Brake and Analogous Systems	Nov. 24	Jan. 16	787
	Oldest new case, Oct. 15; oldest amended, Nov. 14.			
	Total number of applications awaiting action			35,482
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Feb. 13	May 7	2,646
	Designs	Mar. 4	Mar. 24	649
	Labels and Prints	Mar. 1	Mar. 1	1,106

PATENTS

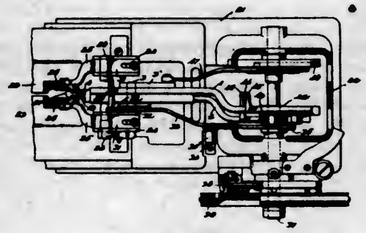
GRANTED JULY 27, 1920.

1,347,485. ROAD-DRAG. GLENN H. ALLYN, Madison Lake, Minn. Filed Aug. 2, 1919. Serial No. 314,922. 2 Claims. (Cl. 37—5.)



1. A road drag comprising side members which converge as they extend from the front to the rear, transverse bars secured at their ends to said members, the ends of said bars being inclined downwardly at an obtuse angle, whereby said members are inclined inwardly, and blades secured to the inclined sides of said members.

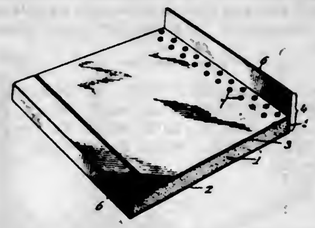
1,347,486. MECHANISM FOR CLIPPING HOLES IN SHEET MATERIAL. EDWARD B. ALLEN, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed May 18, 1918. Serial No. 234,132. 9 Claims. (Cl. 164—2.)



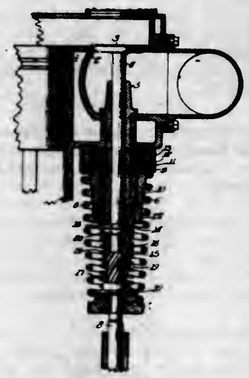
1. A cutting device comprising an eyed cutting element having a passageway for the clippings, and an anvil having a surface against which the cutting element is adapted to act to cut a hole in the material, said anvil having a hump in fixed relation therewith and rising from the surface portion thereof within the area embraced by the eye of the cutting element when said eye is in contact with the anvil.

1,347,487. PLASTER-BOARD. LOUIS E. ARMSTRONG and HUGH BOWYER BROCKENBROUGH, Fort Dodge, Iowa, assignors to Plymouth Gypsum Company, Fort Dodge, Iowa, a Corporation of Iowa. Filed Oct. 30, 1919. Serial No. 334,526. 5 Claims. (Cl. 154—45.9.)

1. A plaster board comprising a body of plastic material, a sheet of fibrous material covering one face of said body and having a marginal portion engaging an edge of said body and adapted to be folded over upon the opposite face of said body, a sheet of fibrous material covering the opposite face of said body and in lapping engagement with the folded-over marginal portion of said first-mentioned sheet, the latter having portions thereof removed to permit the material of the body to pass through said underlapping marginal portion and to adhere to said folded-over marginal portion.

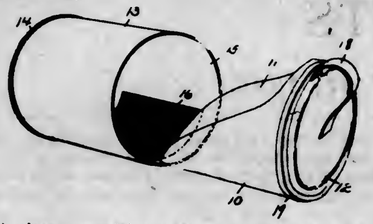


1,347,488. VALVE. STANLEY B. ARNOLD, Chicago, Ill. Filed Aug. 15, 1918. Serial No. 250,015. 10 Claims. (Cl. 123—90.)



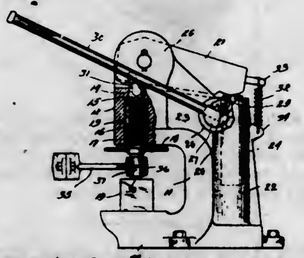
1. A valve structure including a valve seat; a valve; a stem for the valve; a stationary toothed member; a rotatable toothed member in separable tooth engagement with the aforesaid stationary toothed member, the interengaging portions of these members being formed to permit said rotatable toothed member to turn in one direction and to prevent it from turning in the reverse direction; and a worm substantially fixed upon the valve stem and operating within the rotatable toothed member.

1,347,489. SIEVE. SAMUEL L. BATEMAN, Newark, N. J., assignor of one-half to George A. Lobsitz, Newark, N. J. Filed Mar. 15, 1920. Serial No. 365,819. 3 Claims. (Cl. 83—60.)



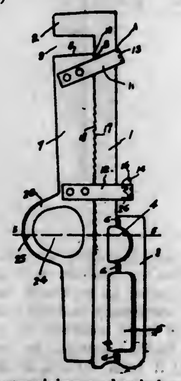
1. A sieve comprising a scoop member with an open side, and a cylindrical sieve member with a closed end and an open end and having a sieve in its side wall, the members telescoping longitudinally and being freely separable.

1,347,490. APPARATUS FOR RENDERING WORN BUSHINGS USABLE. CHARLES P. BEACH, Littleton, N. H. Filed June 16, 1916, Serial No. 104,056. Renewed Jan. 9, 1919. Serial No. 270,443. 4 Claims. (Cl. 78—13.)



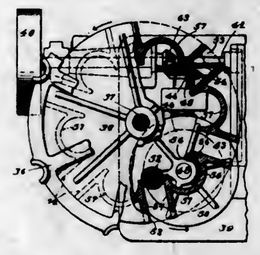
1. An apparatus for fitting bushings consisting of a frame, a pressing member slidable in the frame, an anvil mounted on the frame beneath the pressing member, a vertically movable rack mounted on the frame a shaft rotatably mounted on the frame, a pinion on said shaft coöperating with the rack, means for rotating the shaft, a pressing lever pivoted on the frame, and having one end in engagement with the upper end of the rack, and connections between the other end of the lever and the pressing member.

1,347,491. WRENCH. LEON BENOIT and PERCIVAL FAULKNER KING, Vancouver, British Columbia, Canada. Filed Feb. 15, 1919. Serial No. 277,330. 8 Claims. (Cl. 81—181.)



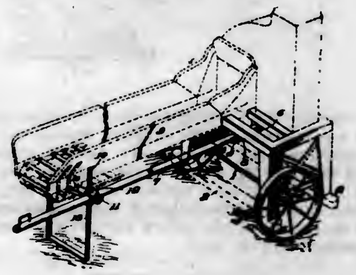
4. A wrench comprising a shank having a rigid jaw, a second shank mounted on the edge of the first-mentioned one having its upper end adapted to form the sliding jaw for the wrench and rounded at one corner for rolling contact with said first shank, and an inclined strap secured to the second shank embracing the first one and bearing at its upper embracing edge on the rear edge of the first shank at a point in advance of the point of rolling contact of the second shank with the first one.

1,347,492. INTERMITTENT-DRIVING MECHANISM FOR BOOK BINDING OR COVERING MACHINES. ALFRED BREDENBERG, Champlain, N. Y., assignor of one-half to Sheridan Iron Works, a Corporation of New York, and one-half to T. W. and C. B. Sheridan Company, a Corporation of New York. Filed Feb. 1, 1918, Serial No. 214,844. Renewed Dec. 16, 1919. Serial No. 345,303. 3 Claims. (Cl. 74—41.)



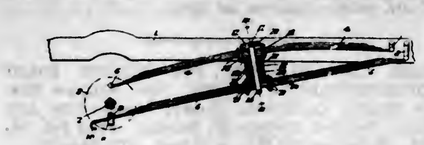
1. Mechanism for intermittently driving an endless carrier, comprising a rotary driven member by which the carrier is advanced, the same formed with a plurality of radial tracks equidistantly arranged at less than a quadrant apart and opening inwardly toward the axis of rotation, a rotating driving member having its axis located eccentrically to but substantially within the periphery of the driven member, and said driving member having a driving pin arranged to engage and disengage the inward end of the successive tracks by a motion tangential to each track, whereby the driven member and carrier at each actuation are maintained in motion for a period greater than the period of rest and with easy starting and stopping action.

1,347,493. ENSILAGE-CUTTER. FRED J. BULLOCK and WARD H. PRESTON, Shortsville, N. Y., assignors to Papec Machine Company, Shortsville, N. Y., a Corporation of New York. Filed Nov. 6, 1916. Serial No. 129,799. 4 Claims. (Cl. 193—14.)



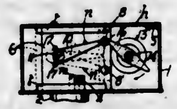
1. In an ensilage cutter, a two-wheeled frame, a conveyer carried by said frame and extending outwardly therefrom, a reach detachably connected to said frame at one end, an arm secured to said reach having a connection with the free end of said conveyer, a draft bar slidably carried by said reach, and means for locking said draft bar in adjusted position.

1,347,494. SPRING SUSPENSION FOR VEHICLES. ELI JAY BUSHEY, New York, N. Y. Filed Nov. 15, 1919. Serial No. 338,839. 4 Claims. (Cl. 267—41.)



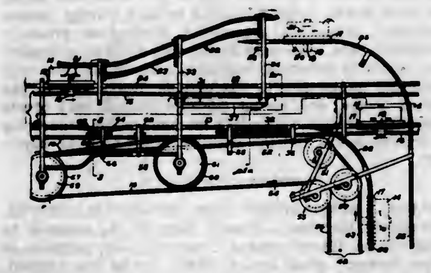
1. A spring suspension for motor vehicles comprising a semi-elliptic main leaf spring connected at its ends with the frame and rear axle housing of the vehicle, an auxiliary leaf spring located under the main spring and spaced therefrom, said auxiliary spring being shackled at one end to the vehicle frame and having a sliding connection at its other end with the rear axle housing, a saddle held to the frame and surrounding said springs midway the ends thereof, said main spring being pivotally supported in the saddle and the auxiliary spring being free to move endwisely and vertically relatively to the saddle, and means controlled by the flexing of the main spring to a predetermined extent for placing the auxiliary spring under tension.

1,347,495. AUTOMOBILE-ALARM. GEORGE M. CAMPBELL, St. Louis, Mo. Filed July 28, 1919. Serial No. 313,779. 5 Claims. (Cl. 177—314.)



1. In an alarm of the character described, a suitable casing, a movable block mounted therein, a switch pivotally secured to said block, a rotatable spindle in the casing, a tripper or dog on the spindle adapted to foul the switch and oscillate the same through a limited arc for one position of the block and to clear the switch for another position of said block, contacts on the block for engaging the switch when the latter has been oscillated by the dog, a source of electric energy, an electric circuit, an alarm or signal in the path of said circuit, and suitable electric connections between the switch and contacts aforesaid and said circuit.

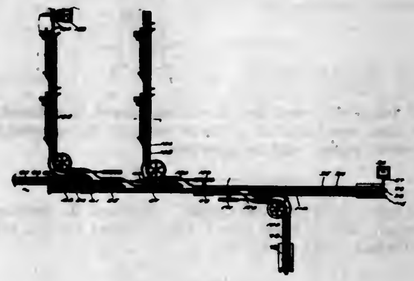
1,347,496. CARRIER APPARATUS. LOUIS W. CHISM, Southington, Conn., assignor to The Steel Products Company, Hartford, Conn., a Corporation of Connecticut. Filed June 12, 1917. Serial No. 174,259. 15 Claims. (Cl. 186—14.)



1. In a carrier apparatus, the combination of a carrier, two carrier-propelling cables one driven by the other, the driving cable being provided with a loop, means driven by said loop for driving said driven cable, and means to interrupt and reëstablish the driving connections between said carrier and said driving cable, thereby to permit said carrier to pass said loop without traversing the same.

7. In a carrier apparatus, the combination of two carrier-propelling cables one driven by the other, the driving cable being provided with a loop, means driven by said loop for driving said driven cable, a carrier, means to transfer driving engagement of said carrier from one to the other of said cables, and means to transfer driving engagement of said carrier from one part of said driving cable to another adjacent said loop.

1,347,497. CARRIER SYSTEM. LOUIS W. CHISM, Springfield, Mass., assignor, by mesne assignments, to The Steel Products Company, Hartford, Conn., a Corporation of Connecticut. Filed June 13, 1912, Serial No. 703,370. Renewed Oct. 17, 1919. Serial No. 331,507. 28 Claims. (Cl. 186—15.)



1. A cable carrier system having, in combination, a main outgoing track, a main incoming track, a branch outgoing track leading from said main outgoing track, a branch incoming track leading to said main incoming track, a carrier, a main endless motor cable for propelling said carrier along said main outgoing and main incoming tracks, an auxiliary endless motor cable for propelling said carrier along said branch outgoing and incoming tracks, means acting automatically to transfer the driving engagement of said carrier from one to the other of said cables in passing out of coöperation with one of said tracks into coöperation with another of said tracks.

6. A cable carrier system having, in combination, main track and auxiliary tracks, a plurality of carriers of different characteristics, main and auxiliary endless motor cables adapted to propel said carriers along said main and auxiliary tracks, and means selectively and automatically to divert carriers of certain characteristics from said main track onto said auxiliary track.

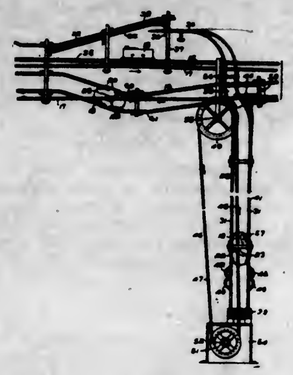
10. A multiple-unit carrier system comprising, in combination, a plurality of individually distinct detachably connected units each comprising a track having a plurality of rails, the rails of one unit being laterally displaced to receive the tracks of another unit; and means joining the displaced rails of the one unit to the rails of the other unit to provide a substantially continuous guideway for a carrier.

17. In a device of the class described comprising a main track, a branch track having the rails at the head thereof deflected laterally into alinement and arched, said rails being superposed on a rail of the main track, and a carrier supporting guide arranged parallel to the main track adjacent the head of said branch track.

1,347,498. STORE-SERVICE APPARATUS. LOUIS W. CHISM, Springfield, Mass., assignor, by mesne assignments, to The Steel Products Company, Hartford, Conn., a Corporation of Connecticut. Filed May 4, 1914, Serial No. 836,054. Renewed Apr. 22, 1920. Serial No. 375,898. 6 Claims. (Cl. 186—14.)

1. A store service apparatus comprising, in combination, a branch track; a main track having an interruption at

its juncture with said branch track; a carrier having main guides for coöperation with said tracks and a supplemental guide; means for propelling said carrier along said



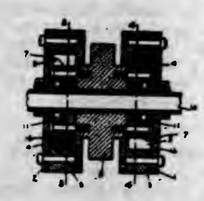
main track past said juncture; and means to coöperate with said supplemental guide to support the carrier in its travel across said interruption.

1,347,499. CURTAIN-WINDOW. WILLIAM J. DECKER, Detroit, Mich. Filed July 8, 1918. Serial No. 243,761. 4 Claims. (Cl. 296—145.)



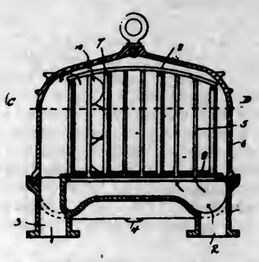
1. In combination, a fabric sheet having an opening and being turned back on itself around the opening, a frame member positioned between the turned back portion and the main portion of the sheet, a glass panel, and a second frame member engaging the glass panel and extending around the first frame member and inwardly between it and the main portion of the sheet, the curtain being imperforate around said opening and one side of the curtain being smooth and unbroken, all of the frame and the glass being on the other side of the curtain.

1,347,500. ROTARY COMPRESSED-AIR MOTOR. DOUGLAS DOBBINS, Shelbyville, Ind., assignor of one-half to John Day De Prez, Shelbyville, Ind. Filed Oct. 17, 1918. Serial No. 258,593. 2 Claims. (Cl. 253—50.)



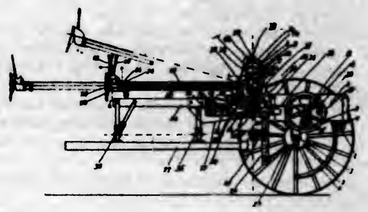
1. A rotary motor including in combination two housings, each having a rotary member therein, a single means on which said housings are centrally mounted and spaced apart, and a driven member surrounding said mounting means between said housings, and forming a portion of the adjacent sides of each and at each side adjacent and secured directly to the rotary member of the motors respectively, substantially as set forth.

1,347,501. ARRANGEMENT FOR DRYING SOLID LIQUID-CONTAINING BODIES. JENS WILLIAM ÆGIDIUS ELLING, Christiania, Norway, assignor to A/S Myrens Verksted, Christiania, Norway. Filed Feb. 21, 1919. Serial No. 278,551. 4 Claims. (Cl. 34—30.)



1. In an apparatus for drying solid materials a chamber supplied with heating medium and a chamber containing the material to be dried, the pressure in said last chamber being lower than the pressure in the heating chamber and bags of flexible material extending into the drying chamber and communicating with the heating chamber said bags being spaced apart to give room for the goods to be placed between them.

1,347,502. TRACTOR. FRED A. FROGH, St. Paul, Minn. Filed July 5, 1919. Serial No. 308,692. 14 Claims. (Cl. 180—77.)

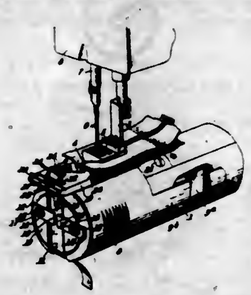


1. In a tractor, the combination with the driving means and the steering means, the latter including a vertically disposed pivotal connection whereby it is connected with said driving means, the driving means being swingable around said pivotal connection of a member swingably mounted on pivot means, the pivot thereof being coincident with said pivotal connection and located above the latter said pivot means being supported by said driving means, rearwardly extendible controlling mechanism pivotally mounted on said member in such a way as to be swingable in an upwardly direction, operative connections from said controlling mechanism to the driving means and to the steering means, and means movable around said pivots irrespective of said controlling mechanism for connecting the driving means and the steering means with an implement.

1,347,503. STRIP-GUIDE FOR SEWING-MACHINES. GEORGE S. GATCHELL, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Apr. 6, 1917. Serial No. 160,087. 16 Claims. (Cl. 112—152.)

1. In a cylinder-bed sewing machine, the combination with a work-supporting arm, stitch-forming mechanism including a pair of needles, and work-feeding mechanism, of means for guiding a previously stitched seam between

said needles, means for guiding a stay-strip upwardly across the free end of said work-arm, and adjustable means adjacent the stitching plane for guiding said stay-strip to the stitch-forming mechanism.



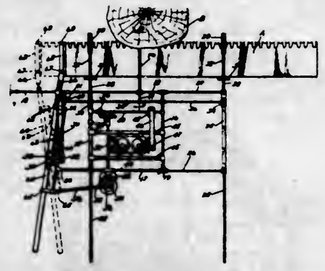
2. In a cylinder-bed sewing machine, the combination with a work-supporting arm, stitch-forming mechanism, work-feeding mechanism and a presser-foot, of means sustained below the stitching plane and in advance of the presser-foot for guiding a stay-strip upwardly across and within the periphery of the free end of the work-arm and delivering it to said stitch-forming and feeding mechanism in advance of said presser-foot.

3. A sewing machine comprising, in combination, a frame including a hollow work-supporting arm including a hollow work-supporting arm whose free end-portion is formed with an upwardly extending strip-guiding passageway, means for varying the effective width of said passageway, and stitch-forming and work-feeding mechanisms incorporated in said frame.

4. A sewing machine comprising, in combination, a frame having a hollow work-supporting arm including an end-wall, said end-wall being cut away to form an upwardly extending strip-guiding channel, stitch-forming and work-feeding mechanisms incorporated in said frame, guide means between said channel and stitch-forming mechanism, and means for retaining the strip in said channel.

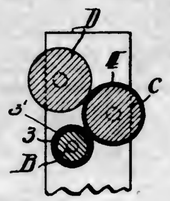
5. A sewing machine comprising, in combination, a frame having a hollow work-supporting arm including an end-wall, stay-strip guiding means sustained by said end-wall, a throat-plate sustained by said arm and projecting forwardly of said end-wall and formed with a strip-guiding aperture, and stitch-forming and work-feeding mechanisms incorporated in said frame.

1,347,504. TREE AND LOG SAWING MACHINE. NEWTON L. GLOVER, Windom, Minn. Filed July 5, 1919. Serial No. 308,857. 18 Claims. (Cl. 143—68.)



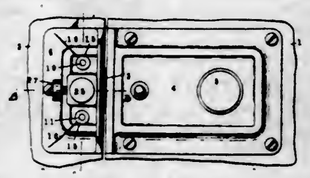
1. A saw mill of the kind described comprising a framework, a saw blade, means for guiding and pressing said saw blade to its work, a saw operating lever pivotally associated with said frame, and a motor on said frame with connections for oscillating said lever, said lever being extensible in opposite directions from its fulcrum as said lever is extended to follow the feed movements of the saw.

1,347,505. PRINTING APPARATUS. JOHN GONDEK, St. Paul, Minn. Filed Sept. 1, 1917. Serial No. 189,303. 3 Claims. (Cl. 101—215.)



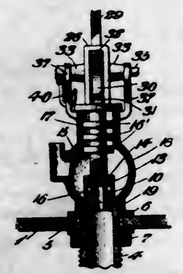
2. In a printing apparatus of the class described, a transfer cylinder having a yielding composition facing, a relatively hard non-ink absorbing covering for said facing and a transfer cylinder arranged in coöperation with said transfer cylinder.

1,347,506. LOCK-OPERATED CIRCUIT-CLOSER. DAVID L. GORDON, New York, N. Y. Filed Dec. 14, 1915. Serial No. 66,678. Renewed Oct. 21, 1918. Serial No. 259,140. 16 Claims. (Cl. 200—55.)



2. In an apparatus of the character described, in combination, a bolt, an electric circuit including a conductor movable to close the circuit by a door opening movement of the bolt when the bolt is in locking position, and means adapted to adjust the extent of the circuit closing movement of said conductor.

1,347,507. INLET-VALVE FOR WATER-CLOSET TANKS. WILLIAM U. GRIFFITHS, Philadelphia, Pa. Filed Feb. 1, 1918. Serial No. 214,814. 1 Claim. (Cl. 137—104.)



In combination, a lever for operating a flush tank valve said lever being adapted to be operated by the rising and falling movements of a liquid in a container, a valve casing having brackets provided with openings therethrough, and a pivot extending through said openings and through an opening in said lever said pivot having a hook member secured to one end thereof which member is adapted to engage an edge of one or the other of said brackets substantially described.

1,347,506. LIQUID COMPOSITION FOR THE TREATMENT OF BINDING-TWINE. JOHN HARSHFIELD, Sutherland, Nebr. Filed Jan. 9, 1920. Serial No. 350,433. 2 Claims. (Cl. 134—14.)

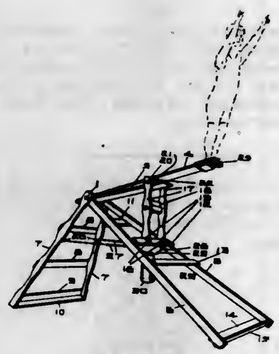
2 A preservative mixture for the treatment of porous articles by impregnation, consisting of approximately equal proportions of lubricating oil and kerosene oil, and a principal proportion of water gas residue.

1,347,509. GUN ATTACHMENT. OLAF L. HOWE, Missoula, Mont. Filed Oct. 6, 1917. Serial No. 195,184. 7 Claims. (Cl. 42—56.)



7. In combination with a rifle, a fluid container having an outlet, holding means on said rifle for said container including a housing having a resilient seat for one end of the container and a recessed lug for the other end thereof, said lug having a passageway in line with the outlet from said container, a pipe extending lengthwise of said gun barrel and having its inlet end supported by said lug, and valve mechanism for controlling communication between said container and said pipe.

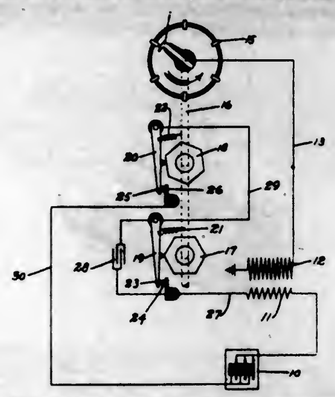
1,347,510. SPRING-BOARD FOR DIVING. DORR E. JOHNSON, Toledo, Ohio, and OLIN E. PARMELEE, Lambertville, Mich. Filed Aug. 13, 1919. Serial No. 317,143. 6 Claims. (Cl. 46—69.)



2. A spring board comprising a pair of boards, means clamping the boards together, a support for the clamp portion of the board, and a supplementary support for one board of the pair, said other board coacting to hold the supplementary support in position.

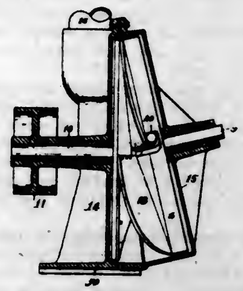
1,347,511. IGNITION SYSTEM. WILLIAM O. KENNINGTON, London, England, assignor to The Remy Electric Company, a Corporation of Indiana. Filed Sept. 21, 1918. Serial No. 255,046. 5 Claims. (Cl. 123—148.)

1. In an ignition system, a non-back-firing device comprising a primary coil with a source of current therefor, and a secondary coil with connections for producing sparking impulses; of a main make and break point, and an auxiliary make and break point, both in series in said primary circuit; means for operating said make and break points in quick succession, the main make and break point being operated first in the normal rotation of the engine and last in the reverse rotation, with a condenser shunted



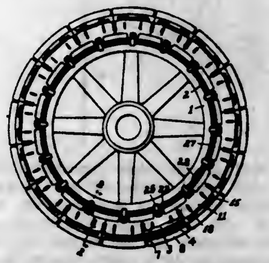
around the contact points of the main make and break point only, substantially as and for the purpose described.

1,347,512. PUMP. JAMES B. KIRBY, Cleveland, Ohio. Filed Apr. 10, 1919. Serial No. 289,044. 6 Claims. (Cl. 230—29.)



1. A pump comprising a casing having an inlet and an outlet, a pair of rotary disks in said casing, arranged at an angle to each other, flexible blades extending between the disks and connected to the same respectively and adapted to open and close as the disks are rotated, and means to rotate the disks, the connection between the blades and at least one margin of each of the disks including means to permit variation in the effective length of the blades.

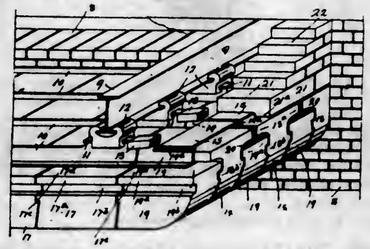
1,347,513. TIRE-PROTECTOR. ALBERT KLEINSHROT, Cleveland, Ohio. Filed Dec. 7, 1918. Serial No. 265,756. 5 Claims. (Cl. 152—16.)



2. In a tire protector, the combination of tread members, the tread members having flanges at the sides there-

of, the flanges having openings therethrough, side plates, the side plates having lugs for entering the openings of said flanges to form hinge joints, the lugs having nibs for engaging said flanges to retain the lugs in operative position, and means for supporting the side plates to permit radial movement thereof, substantially as described.

1,347,514. FIRE-ARCH FOR BOILERS. MICHAEL LIPTAK, St. Paul, Minn. Filed Mar. 1, 1919, Serial No. 280,063. Renewed Dec. 12, 1919. Serial No. 344,466. 11 Claims. (Cl. 110—95.)



1. A fire arch comprising laterally spaced beams, laterally spaced hanger blocks hung on said beams, and supplemental blocks underlying the respective beams in the spaces between said hanger blocks, the said hanger and supplemental blocks at their lower faces terminating in approximately the same plane and being exposed to the fire.

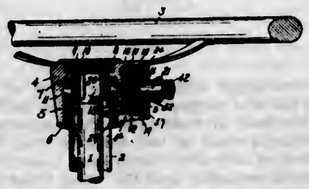
10. A fire arch comprising laterally spaced beams, arch forming blocks detachably hung from said beams, crowning plates detachably seated on the ends of said beams in planes above the upper portions of said hanger blocks, and a wall built on said crowning plates and thereby supported above said hanger blocks.

1,347,515. CLASP FOR NECKLACES AND THE LIKE. JULIUS H. LUTZ, New York, N. Y. Filed Nov. 21, 1919. Serial No. 339,559. 4 Claims. (Cl. 24—230.)



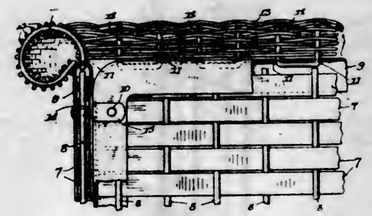
1. In a clasp for necklaces and the like, a casing member, an insert member adapted to be moved within the casing member, a clutching element connected to one of said members and a groove in the other member having a cam portion adapted on axial turning to release the clutching element and permit the separation of the parts.

1,347,516. PERMUTATION-LOCK FOR STEERING-WHEELS. OTTO J. MANTHEY, Toledo, Ohio, assignor, by direct and mesne assignments, to Ralph H. Culley, Rochester, N. Y. Filed June 21, 1919. Serial No. 305,807. 4 Claims. (Cl. 70—53.)



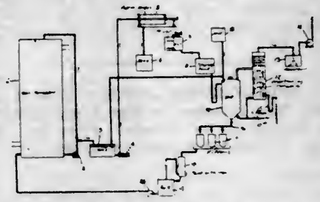
1. In combination, a pair of relatively movable members, a rotatable bolt shaft carried by one of said members and axially movable into and out of locking engagement with the other member, said shaft having an eccentric portion, a collar having an opening of a size corresponding to that of the bolt shaft to permit an axial movement of the shaft therethrough, said collar being adapted to coöperate with the eccentric portion of the shaft and be moved thereby into and out of locking relation to the bolt shaft to permit or prevent an axial movement thereof through the collar, and means operable to coact with said collar to prevent or permit movements thereof transverse to the bolt shaft.

1,347,517. CARRIAGE. ADOLPH K. MEINECKE and ALFRED WILD, Milwaukee, Wis., assignors to Meinecke Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 1, 1917. Serial No. 204,814. 5 Claims. (Cl. 296—28.)



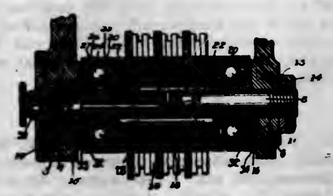
2. A carriage or vehicle having the portion thereof which is above the lower running-gear portion, composed of a woven fabric, the warp strands thereof composed of veneer strips, and the woof strands thereof of flexible twisted paper cord, and a device provided with members receiving therebetween the edges of a woven fabric.

1,347,518. METHOD OF MAKING HYDROCYANIC ACID AND CYANIDS. MAX E. MUELLER, Youngstown, Ohio. Filed Aug. 25, 1919. Serial No. 319,702. 11 Claims. (Cl. 23—1.)



1. The method of converting ferrocyanids to hydrocyanic acid and cyanids, which consists in treating the ferrocyanid with metallic copper in conjunction with an acid capable of reacting with such ferrocyanid and distilling off the hydrocyanic acid thereupon set free.

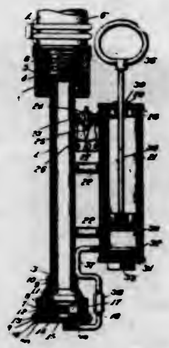
1,347,519. GRINDING-WHEEL DRESSER. ROLAND P. PLACE, Detroit, Mich., assignor to the H-P Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 10, 1919. Serial No. 276,055. 3 Claims. (Cl. 64—36.)



1. In combination, a shaft, an element rotatable thereon and having a cup-shaped recess in one end, an anti-fric-

tion bearing in said recess, said bearing including an outer race, an inner race, and interposed rolling members, an end wall for said recess beyond the bearing, said wall being rigid with the rotatable element and sealing a channel in which the rolling members run, and a washer outside of said end wall of substantially the same diameter as said wall and pressing on the inner race to adjust the bearing and to exclude dirt.

1,347,520. SPRAYING DEVICE. PAUL RASCH, Chicago, Ill. Filed Feb. 5, 1919. Serial No. 275,166. 2 Claims. (Cl. 299—85.)



1. In a spraying apparatus, in combination, a tubular member having ingress and egress openings for the passage of a fluid, a container secured to said tubular member, a piston reciprocatingly fitted in said container, means for establishing communication between the inlet end of said tubular member and the corresponding end of said container, and a pipe leading to the other end of the container, said pipe being adapted to be placed in and out of coacting position with said tubular member.

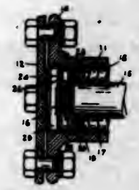
1,347,521. COIL-WINDING FORM. SAMUEL ROGERS, Anderson, Ind., assignor to The Remy Electric Company, a Corporation of Indiana. Filed Jan. 15, 1919. Serial No. 271,289. 9 Claims. (Cl. 242—77.)



1. In a coil winding form, the combination with side flanges of a core comprising separable portions each attached to one of the flanges, said portions having coöperating guiding provisions whereby to cause one flange to move obliquely to the plane of the other flange when the core portions are separated.

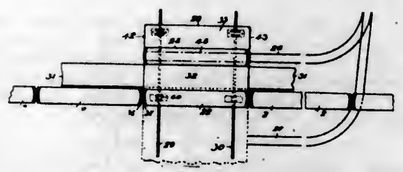
1,347,522. FAN CONSTRUCTION. RALPH C. ROOT, Indianapolis, Ind., assignor to Service Products Corporation, Indianapolis, Ind., a Corporation. Filed May 13, 1919. Serial No. 296,780. 3 Claims. (Cl. 64—39.)

3. A fan construction including a hub member, a spindle extending through said hub member for supporting said construction, a retaining member provided with a bulging surface mounted on the outer end of said construction, and a fan adapted to be rigidly secured to the end of said hub so as to engage the bulged surface of said



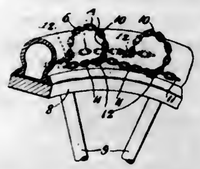
retaining member and yieldingly force it inwardly, whereby said member will be yieldingly forced against said construction for forming a seal and securing the parts thereof in their relative position to each other.

1,347,523. TRAIN-CONTROL SYSTEM. HAROLD ROWNTREE, Kenilworth, Ill., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Aug. 3, 1917. Serial No. 184,211. 8 Claims. (Cl. 104—25.)



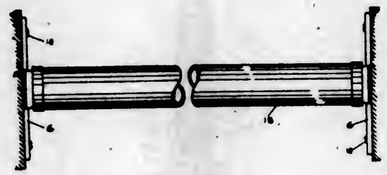
1. A railway system comprising an endless chain of unattached cars, and means for starting and stopping said chain of cars from a single control station.

1,347,524. ANTISKID DEVICE FOR VEHICLE-WHEELS. CHARLES D. SCHMIDT, Jamaica, N. Y. Filed Feb. 3, 1919. Serial No. 274,592. 4 Claims. (Cl. 152—14.)



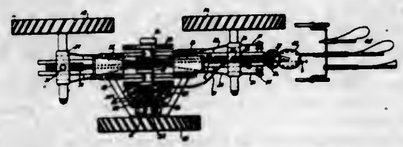
1. The combination with a vehicle wheel, of an antiskid device therefor composed of a series of similar chain sections with hooks at their ends, said assembled section forming retaining rings of less diameter than the tread of said wheel at each side thereof, and a series of cross chain elements extending over the wheel tread from the ring on one side to the ring on the other, said device being attachable to the wheel without deflation of the tire thereof.

1,347,525. CURTAIN-ROD FIXTURE. GEORGE H. SMITH, Providence, R. I., assignor to Charles D. Kenney, Cranston, R. I. Filed May 3, 1920. Serial No. 378,369. 3 Claims. (Cl. 156—22.)



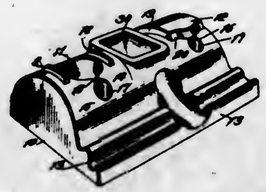
3. The combination with a tubular curtain rod, of a bracket comprising an oblong base, and a flat twisted arm integral with one side edge of the base comprising turns adapted to engage the rod throughout substantially 360 degrees.

1,347,526. FARM-TRACTOR. TRUMAN E. STARK, Aurora, Ill. Filed June 26, 1915. Serial No. 36,533. 8 Claims. (Cl. 180—25.)



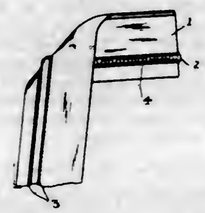
1. In a tractor, in combination, a frame, a pair of carrying wheels swingingly mounted at one side of the frame adjacent its opposite ends, said two wheels being normally in a common plane, a single carrying wheel only mounted at the other side of the frame, the last mentioned carrying wheel having a fixed axis located centrally between the axes of the two first mentioned wheels, a motor and operative driving connection between the motor and the said carrying wheels.

1,347,527. INKSTAND. FRANK A. WEEKS, Plainfield, N. J. Filed Dec. 24, 1917. Serial No. 208,674. 5 Claims. (Cl. 120—57.)



1. An inkstand comprising a base in one integral piece having an upwardly convexed upper surface and containing an inkwell and forwardly disposed dip-chamber communicating with said well and also having at opposite sides of said well transversely disposed shoulders, and a cover conforming to the arcuate outline of the upper surface of said base and having side and end depending flanges engaging the top surface of said base, the side flanges of said cover embracing said shoulders and said shoulders being spaced apart a less distance than the end depending flanges of said cover and adapted on the arcuate movement of said cover to arrest the same in its open and closed positions.

1,347,528. SWEATBAND FOR HATS. JOHN P. WEIS, Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation, Nyack, N. Y., a Corporation of Delaware. Filed Dec. 15, 1917, Serial No. 207,355. Renewed Jan. 29, 1920. Serial No. 354,885. 6 Claims. (Cl. 2—32.)



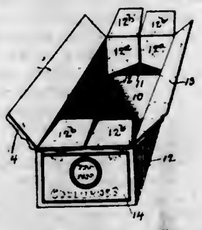
1. A sweat band having one or more embossed portions extending lengthwise thereof, and provided with stitches across the same for maintaining the shape thereof.

1,347,529. FISHING-REEL. JOHN A. WHERRY, New Orleans, La. Filed Mar. 18, 1919. Serial No. 283,402. 22 Claims. (Cl. 242—84.5.)



21. In a fishing-reel, the combination of a shaft, a drum connected thereto, a disk within the drum, said disk connected to the shaft to revolve therewith, centrifugal weights, springs to oppose said weights, and said weights normally out of engagement with the periphery of said drum, but constructed to fly out into engagement therewith when the shaft is rotated at high velocity by the pull of the line thereon, said weights in the form of segments having friction-surfaces or shoes at their inner ends, a boss or collar normally engaged by said inner shoes, said weights having friction-surfaces or shoes at their outer ends to engage the periphery of said drum, and adjustable springs for said weights.

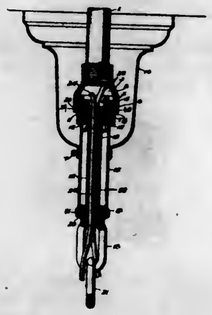
1,347,530. PACKAGING OF TOBACCO PRODUCTS. JOHN E. WILLIAMSON, Yonkers, and HARRY F. POPKEN and ALFRED G. VALE, New York, N. Y., assignors to American Tobacco Company, a Corporation of New Jersey. Filed May 16, 1917. Serial No. 168,913. 2 Claims. (Cl. 229—40.)



1. A box-like container having a bottom, parallel side walls and parallel end walls in substantially continuous contact with each other along their meeting edges to form a body portion with closed sides and bottom and an open top, a cover therefor comprised of a pair of oppositely foldable flaps united with the side walls but nor-

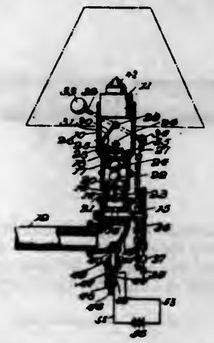
mally free from each other and from the end walls and adapted when in closed position to have their free longitudinal edge portions parallel to and intermediate the side walls of the container, and a sealing strip of readily ruptured material overlying the longitudinal edges of the top flaps and extending across both ends of said flaps, said strip being adhesively attached to both flaps and to the ends of the container, said sealing strip being of substantially the width of the top of the container and substantially sealing the connections between the top flaps and between said flaps and the ends of the container, the construction being such that the ends and one longitudinal edge of said flaps form guide means along which the strip may be readily ruptured.

1,347,531. ELECTRICAL FIXTURE. FRANK LOWELL BUTLER, Chicago, Ill. Filed Feb. 7, 1920. Serial No. 356,866. 3 Claims. (Cl. 240—85.)



1. In an electrical fixture, the combination of a fixed support, a coupling having its upper end connected to said fixed support and having opposite lateral apertures intermediate its length, said coupling having an internal annular recess at its lower end extending toward its upper end to provide an annular shoulder and an internal annular slot in the recessed portion, a cylindrical insulating sleeve adapted to enter said recess in said coupling and to seat against said shoulder provided therein, said sleeve having a central bore enlarged at the upper end thereof to provide an annular shoulder and an external annular slot near the upper end to register with the internal annular slot in the recessed portion of said coupling, said insulating sleeve also having a recess in its lower end adapted to receive the ends of cylindrical stems of varying sizes, a spring member disposed within the registering slots provided in said sleeve and said coupling, whereby said insulating sleeve is firmly held within the recessed portion of said coupling, a tube having a flanged upper end supported by the annular shoulder provided in the central bore of said insulating sleeve, said tube extending through said insulating sleeve and having its threaded lower end depending therefrom, a hollow stem having its upper end seated in the recess in the lower end of said insulating sleeve, said hollow stem encompassing said tube for a portion of its length and having its inner wall spaced therefrom, an eye member having an internally threaded portion screwed upon the threaded end of said tube and having an annular extension against which the lower end of said stem is seated, whereby the hollow stem is held in operative position, a canopy slidably disposed upon said hollow stem and provided with means for securing the canopy thereto, a socket carrying member connected to said eye member, and conducting means passing through the apertures in said coupling into and through said insulating sleeve, said tube, and said eye member to the socket carrying means.

1,347,532. AUTOMATIC GAS-LIGHTER AND SAFETY CUT-OFF DEVICE. PETER PANIPENTO CATALANO, Dunkirk, N. Y. Filed Aug. 14, 1919. Serial No. 317,577. 4 Claims. (Cl. 67—14.)



1. A valve including a vertical casing having upper and lower vertically alined valve seats, a pressure actuated valve for the lower valve seat, and a weighted valve arranged directly beneath said upper valve seat and adapted to engage the same as the pressure within the casing increases, said weighted valve being adapted to engage said pressure actuated valve for seating the same as the pressure decreases.

4. In a device of the class described, the combination with a burner having a burner tip at one end, a manually operable valve for the burner, an elongated pilot burner extending from said first named burner and terminating adjacent said tip, a hanger secured to said pilot burner, a ratchet wheel rotatably carried by said hanger, a sparking device arranged adjacent the teeth of said ratchet wheel and adapted to be engaged by the same, a source of electrical energy connected with said ratchet wheel and said sparking device, a lever actuated pawl adapted for engaging said ratchet wheel, and means connected to said manually operable valve and the lever of said pawl whereby the valve and the lever may be operated together.

1,347,533. HOLLOW CHANNEL-BRICK AND WALL CONSTRUCTION. RICHARD BLAIR COOPER, New York, N. Y., assignor to Fiske & Company, Incorporated, a Corporation of Massachusetts. Filed Dec. 14, 1918. Serial No. 266,676. 15 Claims. (Cl. 72—41.)



10. Channel brick of the kind described comprising a body portion and three projecting hollow portions extending at right angles to said body portion and forming two open channels, all three portions being substantially equal in height, and the central portion having ridges overhanging the channels.

1,347,534. DEVICE FOR TESTING WELLS FOR OIL, GAS, &c. ERNEST H. COX, Duncan, Okla., assignor of one-half to J. W. Chancellor, Bowie, Tex. Filed June 24, 1920. Serial No. 391,302. 2 Claims. (Cl. 166—1.)

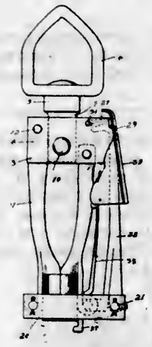
1. In a device of the character described, a substantially cylindrical member adapted to be attached to the lower end of a drill stem, said member having a head and a neck and body, said head and neck provided with a plurality of channels traversing the head and neck in

oblique relationship to the body, and opening outward and downward at the neck of the body to admit water, slush, etc., when the drill stem is lowered into the well, the lower end of the body reduced in diameter and extended



into a nipple-like formation, a "packer" or nose thereon, a channel through the head and nipple-like formation, a plunger with a pointed perforated end extending from the lower end thereof, a flexible tube connected to the head and a closure over the bottom of the nose.

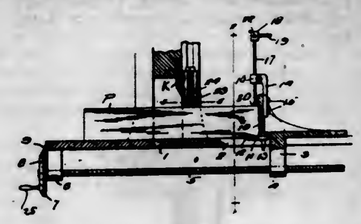
1,347,535. WOOD-ROD ELEVATOR. GEORGE F. DAVIS, Ozona, Tex. Filed Mar. 8, 1920. Serial No. 364,237. 6 Claims. (Cl. 294—90.)



1. A rod lift including a head, a pair of jaws supported by the head, one of said jaws being pivoted with relation to the head, an operating arm having connection with the pivoted jaw, means for locking the operating arm for securing the jaws in a clamping position, and means supported by one of the jaws and adapted to engage the material under operation for preventing twisting of the lift with relation to the material under operation.

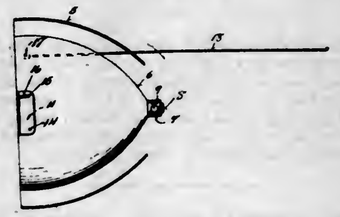
1,347,536. PAPER-CUTTING MACHINE. JAMES H. DOWNIE, San Antonio, Tex. Filed Sept. 10, 1919. Serial No. 322,888. 6 Claims. (Cl. 164—59.)

1. In a paper cutting machine, the combination of a table having longitudinally extending grooves therein, an adjustable paper gage slidably mounted on the table, bottom clamp jaws mounted on the under side of said paper gage, said jaws having their upper faces positioned slightly higher than the upper surface of the table and having



beveled free edges to guide the paper on to the upper surface of the clamp jaws, and a plurality of means for clamping and holding the stack of papers upon said jaws.

1,347,537. HEADLIGHT-ADJUSTING DEVICE. ELMER E. DRUMM, Manitowoc, Wis. Filed July 15, 1919. Serial No. 311,020. 3 Claims. (Cl. 240—41.)



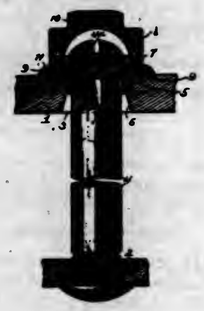
2. A headlight structure comprising a support, a reflector, a hinge having one of its wings secured to the reflector, a pivotal connection between the other wing of the hinge and the support and means for swinging the reflector on said hinge and pivot.

1,347,538. DEVICE FOR AUTOMATICALLY ANNOUNCING ORDERS AND DANGERS TO MOVING TRAINS. FERNANDO ROQUE ELIZONDO, Mexico, Mexico. Filed Nov. 15, 1917. Serial No. 202,212. 4 Claims. (Cl. 246—185.)



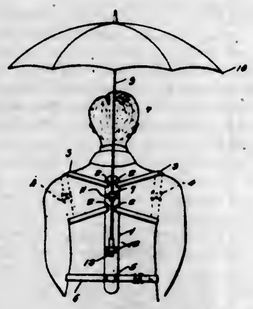
1. In train signaling apparatus, a valve, a spring motor to operate the valve, winding means for the motor including a pivotally mounted element, a lever to move said element in the required direction to wind the motor spring, a signaling element actuated by said lever, a trip element to hold said pivotally mounted element and thereby prevent operation of the motor, and train operated means to actuate the trip element.

1,347,539. STAYBOLT STRUCTURE. JOHN ROGERS FLANNERY and ETHAN I. DODDS, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Sept. 10, 1919. Serial No. 322,870. 3 Claims. (Cl. 85—1.5.)



1. In a staybolt structure, the combination with a boiler sheet provided with an opening having a wall which flares outwardly from an intermediate portion of the thickness of the sheet to the outer face thereof, of a bearing sleeve having a tapering portion mounted on said flaring wall, a staybolt having a head mounted in said sleeve, and means fixdly uniting said sleeve to the boiler sheet.

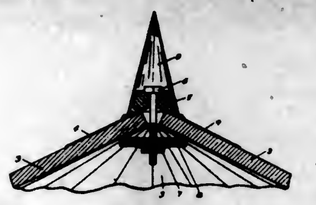
1,347,540. UMBRELLA-HOLDER. JOSEPH J. GODARD, Mobile, Ala. Filed Nov. 29, 1919. Serial No. 341,459. 2 Claims. (Cl. 135—12.)



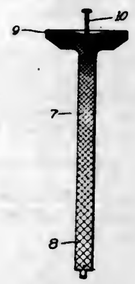
2. An umbrella holder comprising a base of elongated formation, shoulder and waist straps secured to said base and adapted to be adjusted about the shoulders and waist of a person, a block secured to the base adjacent its upper end and having a groove and adapted to receive the staff of an umbrella, a substantially U-shaped clamp secured to the base and straddling the block and staff of the umbrella, a second substantially U-shaped clamp secured to the base adjacent its lower end and adapted to straddle the handle of the umbrella.

1,347,541. ROOF-PEAK. ORA O. HAYNES, Minneapolis, Minn. Filed Mar. 2, 1920. Serial No. 362,864. 1 Claim. (Cl. 108—1.)

In combination with a conical roof, a hood adapted to cover the apex thereof, a block positioned over the apex of said hood, a bolt extending through said block, hood and roof, and means at the lower end thereof for clamping said roof and hood together, a conical cap adapted to cover said block and have its edge tightly secured to said hood.

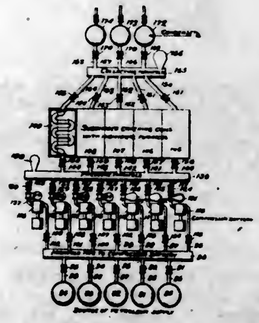


1,347,542. CAST PUPPET-VALVE. FREDERICK HILTY, Waukegan, Ill., assignor to Laurence R. Wilder, Cook county, Ill. Original application filed Mar. 28, 1919, Serial No. 285,866. Divided and this application filed July 3, 1919. Serial No. 308,681. 3 Claims. (Cl. 123—188.)



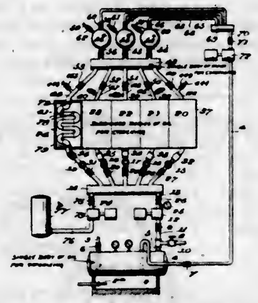
2. An integrally cast metal puppet valve for internal combustion engines which is of varying density, being most dense in the head and least dense at the lower end of the stem.

1,347,543. APPARATUS FOR CRACKING PETROLEUM. HARRY W. JONES, Independence, Kans.; Frank E. Jones, administrator of said Harry W. Jones, deceased, assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Original application filed May 17, 1916, Serial No. 100,278. Divided and this application filed Feb. 13, 1918. Serial No. 216,937. 1 Claim. (Cl. 196—1.)



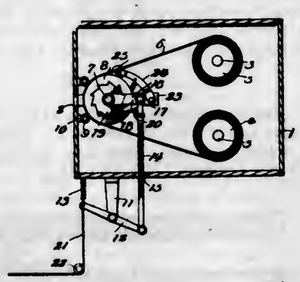
A system for cracking petroleum oils, comprising a set of tanks in parallel, a manifold pipe therefor, a battery of compressors in small units, a suction pipe from said manifold to each compressor with a valve therein, a pressure manifold common to said compressors, a discharge pipe from each compressor to said manifold, a valve in each of said pipes, a subdivided set or battery of small cracking still units set in separate furnaces and all fed from said pressure manifold, with separate valved connections thereto, a collecting manifold and separate valved discharge connections from the individual stills thereto and a condensing system connecting to said collecting manifold, and adapted to deliver the condensed products to the usual receiving devices.

1,347,544. METHOD OF TREATING HYDROCARBONS. HARRY W. JONES, Independence, Kans.; Frank E. Jones, administrator of said Harry W. Jones, deceased, assignor to The Kansas City Gasoline Company, Kansas City, Kans, a Corporation of Kansas. Original application filed May 27, 1916, Serial No. 100,278. Divided and this application filed Feb. 13, 1918. Serial No. 216,938. 2 Claims. (Cl. 196—25.)



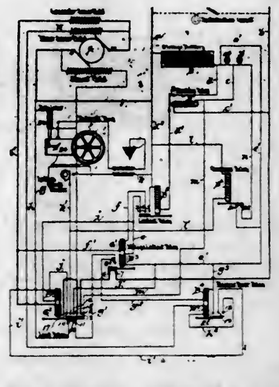
1. The process of cracking petroleum oils, comprising the following steps: first, vaporizing the oil at low or atmospheric pressure, then compressing it by the use of external energy, then subdividing and feeding the compressed oil into separately heated cracking zones and maintaining high heat and pressure in each subdivided body independently of the others, then separately discharging the cracked products and collecting the same together and then condensing the aggregated product.

1,347,545. STREET-INDICATOR FOR CARS. LANDON C. KASBAUM, Laporte, Ind. Filed Oct. 26, 1916. Serial No. 127,877. 1 Claim. (Cl. 40—87.)



An indicator of the type described comprising a housing having an opening therein, a web, rollers in the housing for carrying the web, a large roller adjacent the opening for receiving the web intermediate the aforementioned rollers, idler rollers bracketed to the housing above and below the opening and to each side thereof and in line with the upper and lower edges for disposition forward of and bearing against the large roller whereby to smooth out and facilitate movement of the web thereover, a spur wheel on the larger roller, a vertically disposed and vertically movable shaft extending into the housing, an arcuate pawl pivoted to the shaft and engaging the spur wheel to advance the large roller, and a leaf spring pivoted to the shaft below and in line with the pivot point of the pawl and having a curvature opposite to the curcature of the pawl whereby to positively press the pawl at all times although exerting a smooth and minimum frictional contact upon the pawl for the purpose set forth.

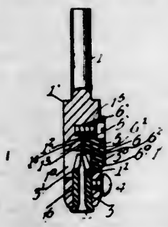
1,347,546. ELECTRIC SYSTEM. EVERETT P. LARSH, Dayton, Ohio, assignor to The Burnett-Larsh Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed June 21, 1915. Serial No. 35,390. 15 Claims. (Cl. 290—30.)



2. In an electrical system as described, the combination of an explosive engine, a generator normally driven by the engine and supplying current to the hereafter mentioned distribution circuit and battery, for the purpose of recharging said battery preparatory to the next starting operation, a battery of lower voltage than the normal operating voltage of the generator, a special low voltage motor series field winding in said generator, a distribution circuit, and normally open intermediate connections automatically actuated by the closing of the distribution circuit by which the battery may be electrically connected with the special low voltage field winding to operate the generator as a motor for the purpose of starting the engine.

14. In an electrical system as described, a distribution circuit, a generator supplying current to the said circuit, a battery supplied by said generator, means for electrically connecting the battery with the generator upon the closing of the distribution circuit, and electrically operated means controlled by battery current for maintaining the connection between the battery and generator subsequent to the opening of the distribution circuit.

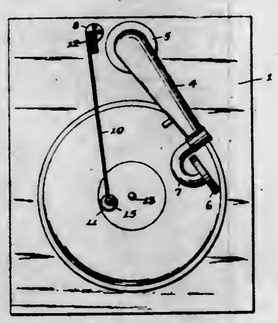
1,347,547. JEWELER'S PIN-POINTER. JOSEPH ALRICK LEGRANDEUR, Toronto, Ontario, Canada. Filed May 6, 1919. Serial No. 295,140. 3 Claims. (Cl. 10—21.)



1. A jeweler's pin pointer comprising a revolving member having a pin receiving orifice extending axially there-

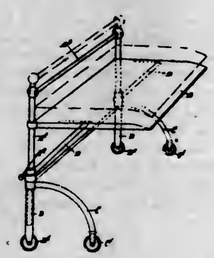
into, a cutter having its cutting edge inclined to correspond with the taper of the pin point and against which the pin is carried by longitudinal pressure and means extending longitudinally of the pin and forming a bed for the pin extending from the extreme point of the pin when the cutting operation is completed and whereby the pin is held rigidly in position against the pressure produced by the operation of the cutter preventing the springing of any portion of the pin out of the cutting position.

1,347,548. RECORD-LIFTER. JOSEPH MENCHEN, New York, N. Y., assignor to Vacuum Record Lifter, Ltd., New York, N. Y., a Corporation of New York. Filed Nov. 23, 1918. Serial No. 263,822. 8 Claims. (Cl. 294—64.)



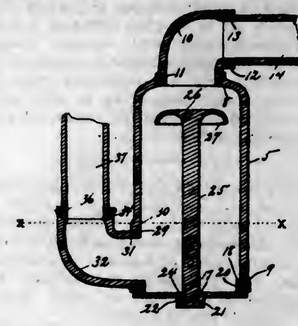
1. A lifting device suitable for lifting disk records from the turntable of a phonograph, comprising an overhanging tilting arm, depressible, and having means for resiliently raising and sustaining it, and a flexible suction cup on said arm, said cup having a flexible open mouth and depending upon its collapsibility for its suction effect and being capable of flexing sidewise without releasing its grip.

1,347,549. DEVICE FOR SUPPORTING AND CARRYING INVALIDS OR PATIENTS. LUCY DEPERE MOTE, Westminster, London, England. Filed Oct. 29, 1919. Serial No. 334,289. 4 Claims. (Cl. 5—44.)



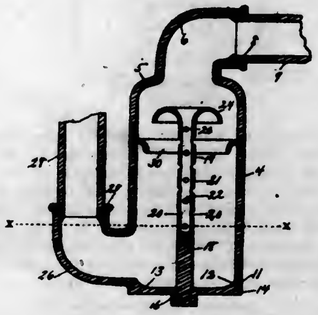
1. An apparatus for the purpose described comprising a frame including an upright section and a base section that extends laterally from the upright section, and a flat table-like support including a relatively thin rigid plate member permanently connected with and extending horizontally from the frame, so that it may extend on to and lie throughout its width close against the top of a mattress on a bed, whereby a patient may be rolled from the mattress on to said support, or vice versa, without being lifted or affecting the connection between the frame and said support.

1,347,550. WASTE-TRAP. ALBERT S. NEWTON, Providence, R. I. Filed Mar. 1, 1920. Serial No. 362,458. 3 Claims. (Cl. 182—12.)



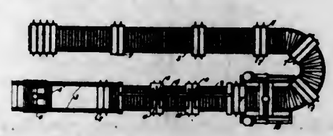
1. In a waste trap, a body, an inlet pipe near the bottom of the body, an outlet pipe in the upper portion of the body, a vertical post in the body, and a baffle plate on the top of the post below the outlet pipe.

1,347,551. WASTE-TRAP. ALBERT S. NEWTON, Providence, R. I. Filed Mar. 1, 1920. Serial No. 362,459. 3 Claims. (Cl. 182—12.)



1. In a waste trap, a body, an inlet pipe near the bottom of the body, an outlet pipe in the upper portion of the body, and a post fast to the bottom of the body comprising a solid lower portion, a tubular upper portion provided with perforations, and an open baffle upon the top of the tubular portion between the inlet pipe and outlet pipe.

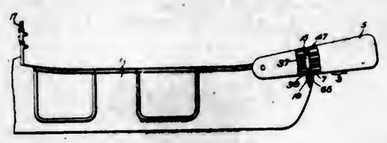
1,347,552. METHOD OF AND APPARATUS FOR MAKING AND HANDLING CASTINGS. CLARENCE K. PRINCE, Westfield, Mass. Filed Aug. 9, 1919. Serial No. 316,468. 4 Claims. (Cl. 22—64.)



1. An apparatus as described, for continuously carrying out the assembling and casting operations which include a device having a horizontal platform for receiving and assembling molds thereon, and including the mold assembling devices for the flask and molds on a single track gravity runway having horizontal and inclined portions for causing the movement of the assembled flask along

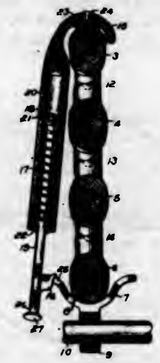
the same, then weighting and pouring the flask on the horizontal portions, then transferring the poured flask along the runway in a straight line to a point in the track at which point means are employed for automatically discharging the contents of the flasks and finally returning the emptied flasks onto the same single track to the original mold forming position or platform.

1,347,553. FOLDING TOP FOR VEHICLES. WILLIAM S. RAWSON, Bridgeport, Conn. Filed Oct. 23, 1916. Serial No. 127,062. 3 Claims. (Cl. 296—128.)



3. In a folding top for vehicles, the combination of a plurality of bows which are stacked above one another when the top is lowered and folded, said bows including one which is inverted and in a generally horizontal position when the top is unfolded and raised, and means to hold said bows in folded relation, said means including an arm and a universal joint connecting said arm to said bow and permitting said arm to be superimposed upon the upper side of such bow when the top is unfolded and raised, said joint including two pivots at right angles to each other, one of said pivots extending between such bow and the bow therebelow when the top is lowered and folded.

1,347,554. FOLDING TOP FOR VEHICLES. WILLIAM S. RAWSON, Bridgeport, Conn. Filed Oct. 22, 1917. Serial No. 197,783. 2 Claims. (Cl. 296—128.)



1. In a folding top for vehicles, the combination of a set of bows, a bow-support provided with a depression to receive the lowermost bow and having a lateral projection provided with an opening at one side of said depression, two telescopically arranged members one of which is hollow and the other working therein, said members being provided with oppositely facing hooks, one of which engages the uppermost bow and the other of which enters said opening and engages said bow-support, and one of said members being provided with a handle for relatively extending said members, and a spring located within one of said members and tending to collapse said members and to draw said hooks toward each other thereby to urge said bows toward said support.

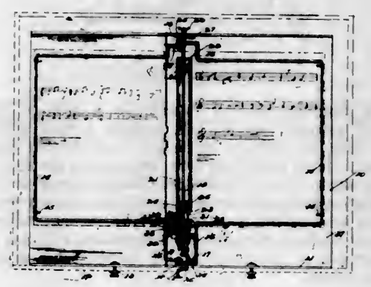
2. In a folding top for vehicles, the combination of a set of bows, a bow-support provided with a depression to receive the lowermost bow and provided also with an opening at one side of said depression, a pair of oppositely facing hooks, one engaging the uppermost bow and the other entering said opening and engaging said bow-support, two collapsibly connected members carrying said hooks, respectively, one of said members being provided with a handle having a pair of laterally projecting portions, and a spring connected to said members and tending to draw said hooks toward each other thereby to urge said bows toward said support.

1,347,555. DENTAL ATTACHMENT. CHARLES N. REESE, Wilmette, Ill. Filed Dec. 17, 1919. Serial No. 345,636. 6 Claims. (Cl. 32—12.)



1. An attachment of the character described comprising an anchor member, and an attaching member having a base and a pair of angularly disposed prongs, and lugs on the prongs for pivotally engaging the attaching member to the anchor member.

1,347,556. MUSIC-TURNING DEVICE. HOMER B. RUSSELL, Walnut Grove, Ala. Filed Oct. 28, 1919. Serial No. 334,005. 5 Claims. (Cl. 84—135.)

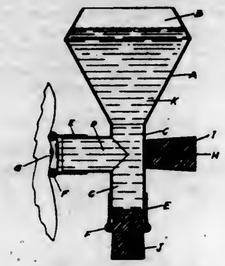


1. A music turning device including a plurality of supports having pivoted arms provided with superposed lugs, a vertically arranged spindle having one end portion screw threaded, a spring actuated member surrounding said spindle, a pair of spaced parallel rods connected to said spring actuated member on opposite sides of said spindle, a vertically movable and rotatable operating member having threaded engagement with the threaded portion of said spindle and slidably receiving said spaced parallel arms, radially disposed arms carried by said operating member and adapted to successively engage said superposed lugs, and a trigger alternately engaging said spaced parallel rods.

1,347,557. CORN AND CALLUS TREATING DEVICE. HENRY E. SCHINDLER, Sisseton, S. D. Filed Mar. 1, 1920. Serial No. 362,603. 3 Claims. (Cl. 128—172.)

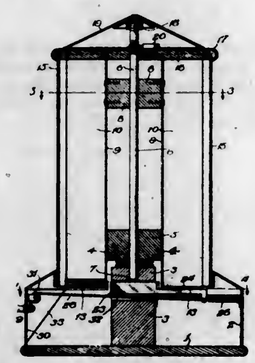
1. A device of the class described consisting of a hollow liquid container, a vertical spout extending down-

wardly therefrom, a side spout extending horizontally from said vertical spout, nipples secured at the ends of



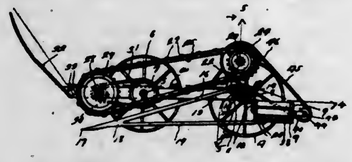
said spouts, a stopper adapted to be secured in either of said spouts.

1,347,558. VENDING DEVICE. ARTHUR BERNARD SIMON, Chicago, Ill. Filed Nov. 6, 1919. Serial No. 336,037. 6 Claims. (Cl. 211—8.)



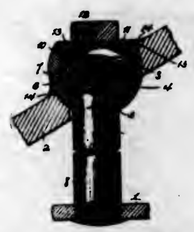
1. A vending machine comprising a base, a central support secured thereto, said support having a central guide bore, a vertically extending shaft having one end disposed within said guide bore, rectangular blocks secured to the shaft, one of said blocks being arranged to bear on said support, and a plurality of sheet metal members bent to form series of relatively large compartments and series of smaller compartments alternating with the larger compartments, said sheet metal members being secured to said blocks.

1,347,559. CORN GATHERING OR HARVESTING MACHINE. WAYNE SMOLLEY, Brookville, Ind. Filed Sept. 12, 1918. Serial No. 253,766. 2 Claims. (Cl. 56—112.)



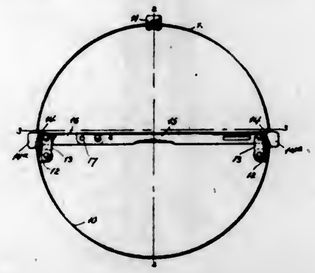
1. In a gathering machine, the combination with a substantially rectangular frame, said frame being supported by wheels in a substantially horizontal plane, downwardly and forward extending spaced fingers having their forward ends disposed adjacent the ground, rearwardly extending braces for said fingers and extending in substantially a horizontal plane, cutting mechanism adjacent the under surface of the rear ends of the fingers, said fingers forming means for separating the stalks from each other during a gathering operation and also forming means for guiding the ears toward the cutting mechanism, an endless conveyer disposed on an inclined plane over the fingers and means whereby said conveyer will be moved at a greater speed than the speed of advance of the machine as a whole so that the ears of corn will be passed rearwardly to the cutter bar without uprooting the stalk as a whole.

1,347,560. STAYBOLT STRUCTURE. BENJAMIN E. D. STAFFORD and ETHAN I. DODDS, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Apr. 30, 1919. Serial No. 293,629. 17 Claims. (Cl. 85—1.5.)



1. In a staybolt structure for boilers, the combination with a boiler sheet provided with an opening, of a sleeve or bushing adapted to have initial universally movable mounting in said opening and having an interior bearing for the head of a staybolt, a staybolt having a head mounted on the interior bearing of said sleeve bushing and means for securing said sleeve or bushing to the boiler sheet.

1,347,561. TIRE-CARRIER FOR AUTOMOBILES. CHARLES C. STEEL and THOMAS H. LYNN, Williamsport, Pa. Filed Aug. 25, 1919. Serial No. 319,601. 3 Claims. (Cl. 224—29.)

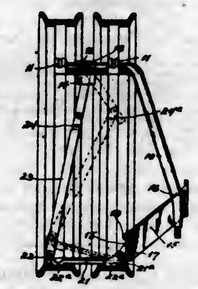


1. In a spare rim carrier, the combination of a curved support, fixed lugs at the upper part thereof for engaging the rim, two links oppositely disposed, and each pivoted at one end to the inner surface of said curved support, a saddle secured to each link at the free end of the latter and straddling the support, each saddle adapted to engage the sides of a rim seated on the support and a toggle lever for moving the two links into and out of rim locking position.

1,347,562. SPARE-RIM CARRIER FOR AUTOMOBILES. CHARLES C. STEEL and THOMAS HERBERT LYNN, Williamsport, Pa. Filed Oct. 10, 1919. Serial No. 329,838. 3 Claims. (Cl. 224—29.)

1. In a spare rim carrier, the combination of two standards, each having a rim supporting member at its upper end, a cross bar connecting the rim supporting

members, a clamping arm located below and in a plane between the two upper supports, a vertically adjustable bracket to which the said arm is pivotally connected, a toggle lever pivotally connected at its upper end to the



cross bar intermediate the two upper supports, and means for detachably connecting the lower end of said toggle lever to the rear end of the clamping arm, whereby the latter can be adjusted to carry rims of different diameters.

1,347,563. MOP FRAME AND HANDLE COUPLING. FRANKLIN P. TOOF, Paducah, Ky. Original application filed Apr. 17, 1916. Serial No. 91,769. Divided and this application filed Dec. 21, 1917. Serial No. 208,266. 5 Claims. (Cl. 287—11.)



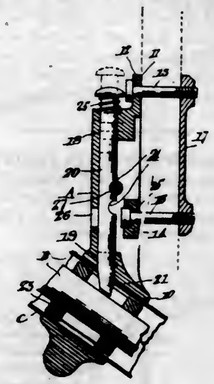
1. In a mop, the combination of handle, a frame, and a coupling formed of a single elongated piece of metal overturned intermediate its ends and embracing a section of said frame, and the end portions of said coupling being transversely bent to form complemental socket portions adapted to embrace the end of said handle.

2. In a mop, the combination of a frame having a transverse bearing section, a handle for the frame having screw threads on one end, and a coupling comprising a single blank of metal having an enlargement intermediate its ends and overturned to form a cylinder at said enlargement and having its end portions transversely arcuated to form complemental socket sections and having screw threads in the walls of the socket sections, and means for securing the socket sections together for the reception of the detachable threaded handle.

3. In a mop, in combination with a handle and a frame, a coupling formed of a single length of sheet metal bent transversely at opposite ends and overturned with the bent ends together to provide complemental socket portions adapted to receive the end of the handle, said overturned portion of the metal being rounded and adapted to engage the frame for hinging the coupling thereto.

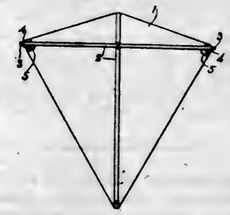
1,347,564. STEERING-WHEEL LOCK. WILLIAM BENSON TURNER, Ottawa, Ontario, Canada. Filed Dec. 26, 1919. Serial No. 347,410. 1 Claim. (Cl. 70—90.)

A locking device for automobiles having a collar adapted to engage a casing of a steering spindle, pins securing the locking device in position, a vertically disposed locking pin slidably mounted in the locking device and forming a cover member for the said pins, a spring encircling the upper end of the locking pin designed to hold the locking pin in unlocked position, the said pin having



peripheral recesses and a transversely extending locking bolt coacting with the recesses to hold the locking pin in the desired position.

1,347,565. KITE. GEORGE D. WANNER, Dayton, Ohio. Filed Feb. 14, 1920. Serial No. 358,582. 2 Claims. (Cl. 244—22.)



1. In a kite, the combination, with a frame, of a kite cover, patches secured thereto and cover-mounting loops secured to the cover by means of said patches, the loops being adapted to secure the cover to the frame.

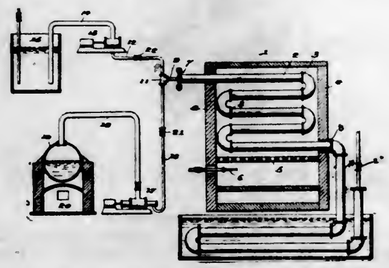
1,347,566. DRINKING-FAUCET. ERNEST E. WANGELIN, Belleville, Ill., assignor to Twentieth Century Brass Works, Belleville, Ill., a Corporation of Illinois. Filed Aug. 29, 1919. Serial No. 320,642. 2 Claims. (Cl. 299—15.)



1. A drinking faucet comprising a cup communicating at one end with a suitable source of water supply, a screw-cap or lid closing the top of the cup, said lid being formed with an elongated open ended passage-way communicating respectively with the interior and outside of the cup, said passage-way being disposed across the axis of the cup and lid, a regulator valve interposed between the water supply source and chamber of the cup, and a

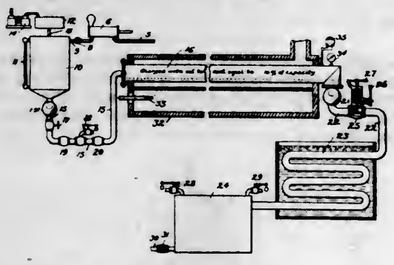
hood or cowl leading from the outer boundaries of the lid and extending circumferentially partially around the lid to envelop the sides and top portions of the bottom of the stream issuing from the passage-way, the hood terminating at the top in a reduced portion extended in the line of the axis of the cup to a point to intercept the lips of the drinker approaching the stream from the top, the sides of the hood preventing approach of the stream from the sides.

1,347,567. OIL-REFINING APPARATUS. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Aug. 1, 1916. Serial No. 112,531. 1 Claim. (Cl. 196—14.)



Apparatus for cracking hydrocarbon oil, which includes a cracking coil of large diameter, an inlet pipe of smaller diameter, means to pump oil through said inlet pipe, to expand into the cracking coil, a cooling coil of uniform diameter at the outlet end of the cracking coil, and a reduced pipe containing a controlling valve at the end of said cooling coil, with a cooling bath for said cooling coil.

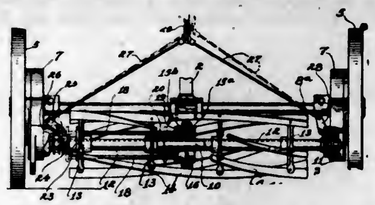
1,347,568. METHOD OF CRACKING HYDROCARBONS. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Feb. 12, 1919. Serial No. 276,677. 1 Claim. (Cl. 196—25.)



The process of treating hydrocarbon oil which consists in heating the same to a high temperature and under a high pressure in a retort containing a volume of the hydrocarbon oil equal to ten per cent. of the total volume of the retort with gas under pressure filling the retort over the oil, blowing out the cracked product under pressure, and trapping back the gas so as to retain it in the retort.

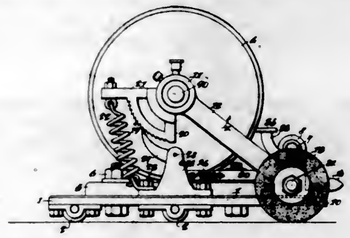
1,347,569. LAWN-MOWER. CHARLES C. WORTHINGTON, Dunfield, N. J., assignor to Shawnee Mower Company, New York, N. Y., a Corporation of Pennsylvania. Filed Dec. 20, 1915. Serial No. 67,699. 9 Claims. (Cl. 56—7.)

9. In a lawn mower, a cutter shaft having a clutch-member fast thereon, a cutter reel concentrically mounted with respect to said shaft and inclosing the same and including a housing for said clutch-member and provided



with a complementary clutch element adapted for engagement with said shaft clutch member within the housing.

1,347,570. LETTER-CUTTING MACHINE. FRANCES MATTHEW YOUNG, Danville, Ill. Filed Aug. 15, 1919. Serial No. 317,722. 4 Claims. (Cl. 51—11.)



1. In a letter cutting machine, a support, a motor, a cutting tool, means for mounting the said tool toward and from the work, means tending to constantly move the tool from the work, a check device for countering the action of the said moving means and a release assembly coöperative with said check device to release the same and thereby permit the said moving means to freely act.

1,347,571. TELEMETER. WALTHER BAUERSFELD, Jena, Germany, assignor to The Firm of Carl Zeiss, Jena, Germany. Filed Oct. 6, 1914. Serial No. 865,406. 4 Claims. (Cl. 88—2.7.)



1. In a telemeter containing two base-lines differing from zero an objective system, a reflecting system, the members of which are adapted to be brought into two different relative positions, each base-line belonging to one such position of the said members, the relative location of the two images of an infinitely distant object presented to the observer by the telemeter remaining unaltered, on passing from the use of one base-line to the use of the other base-line, independently of the relative position of those members of the reflecting system, which are fixed together, and range-indicating means.

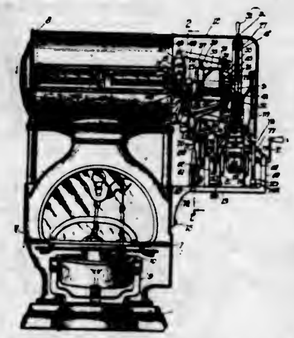
2. In a telemeter containing two base-lines differing from zero an objective system, a reflecting system, the members of which are adapted to be brought into two different relative positions, each base-line belonging to one such position of the said members, the relative location of the two images of an infinitely distant object presented to the observer by the telemeter remaining unaltered, on passing from the use of one base-line to the use of the other base-line, independently of the relative position of those members of the reflecting system, which are fixed together, and range-indicating means compris-

ing two scales, one such scale being based on one of the said base-lines, while the other scale is based on the difference between the two base-lines.

3. In a telemeter containing two base-lines differing from zero and having opposite signs, an objective system, a reflecting system, the members of which are adapted to be brough into two different relative positions, each base-line belonging to one such position of the said members, the relative location of the two images of an infinitely distant object presented to the observer by the telemeter remaining unaltered, on passing from the use of one base-line to the use of the other base-line, independently of the relative position of those members of the reflecting system, which are fixed together, and range-indicating means.

4. In a telemeter containing two base-lines differing from zero and agreeing as to their absolute value, two objectives, an objective reflecting system located at either end of the telemeter and consisting of an optical square and of a central reflector, each optical square, when used in connection with one of the base-lines, being adapted to transmit, together with the central reflector lying at the same end of the telemeter, and, when used in connection with the other base-line, being adapted to transmit, together with the central reflector lying at the other end of the telemeter, the rays entering the optical square to that objective, which lies at the same end as the central reflector, the relative location of the two images of an infinitely distant object presented to the observer by the telemeter remaining unaltered, on passing from the use of one base-line to the use of the other base-line, independently of any variation of an angle of deflection of either optical square or of either central reflector, and range-indicating means.

1,347,572. AUTOMATIC SCALE WITH PRICE AND WEIGHT PRINTING ATTACHMENT. HARRY S. BERGEN, Toledo, Ohio, assignor, by mesne assignments, to Toledo Scale Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 14, 1912. Serial No. 725,728. 33 Claims. (Cl. 265—37.)



1. A computing scale comprising a weighing mechanism and an indicator giving values for different weights at varying prices per unit of weight, a member connected to the weighing mechanism and moved thereby according to the weight of the load on the scale, an element movable independently of said member and controlling the value indicator, and a manually-controlled member normally spaced from said element and adapted to be adjusted according to the price per unit of weight of the commodity constituting the load, said element in its movement directly engaging and being controlled as to position jointly by said members, and means for moving said element.

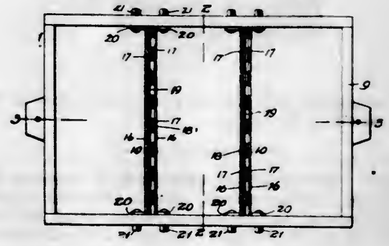
1,347,573. SPARK-PLUG CLEANER. WALTER L. BOARDMAN, Decatur, Ill. Filed Aug. 11, 1919. Serial No. 316,661. 2 Claims. (Cl. 7—17.)

2. A spark-plug cleaning tool comprising a blade having a predetermined thickness equal to the proper spacing of the points of the plug, whereby the same may function as a gage to set the points during the filing thereof, said blade having file teeth on one face and its opposite face



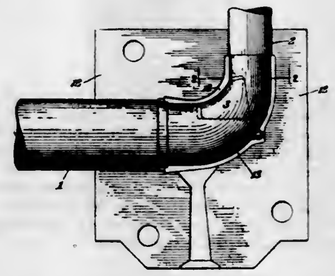
smooth so that it may engage and slide on the straight point of the spark plug while the file teeth are acting upon or cutting the end of the usual right-angled point of the spark plug.

1,347,574. FLASK-BAR. ROYER S. BUCH, York, Pa. Filed July 29, 1919. Serial No. 313,984. 12 Claims. (Cl. 22—111.)



1. A flask bar including a plate having portions split so as to provide tongues, said tongues being bent laterally therefrom; substantially as described.

1,347,575. CORE FOR CASTING CURVED TUBULAR BODIES. GEORGE WALDEMAR BUNGAY, Brooklyn, N. Y., assignor to Acme Die Casting Corporation, a Corporation of New York. Filed Apr. 21, 1920. Serial No. 375,488. 15 Claims. (Cl. 22—169.)



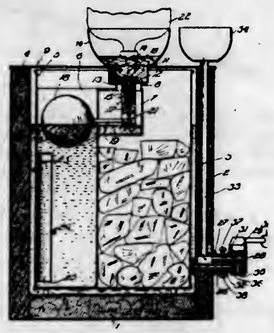
6. A core for casting tubular bodies in longitudinally curved elbow form, such core comprising outer core members for forming the outer curve of the core, and an inner core member for forming the inner curve of the core.

12. A three-piece core for casting tubular elbows, such core comprising two outer core pieces for forming their outer curve of the core, and a third core piece for forming the inner curve of the core.

1,347,576. LIQUID MIXING AND DELIVERY APPARATUS. HARRY S. CORNISH, Chicago, Ill. Filed Mar. 6, 1917. Serial No. 152,718. 7 Claims. (Cl. 225—21.)

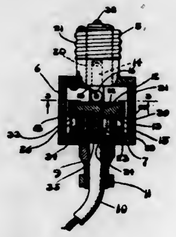
1. In a liquid dispensing apparatus, a cooling chamber, a tank therein, a faucet, a connection from the faucet to the tank, a cup mounted on the cooling chamber above the tank and adapted to receive a bottle in inverted posi-

tion therein and to form a liquid seal therefor, connections between the cup and the tank including a valve seat, a



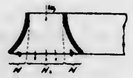
valve coöperating with the valve seat, and a float in the tank controlling the valve.

1,347,577. SWIVEL-PLUG CONNECTOR. EDWARD DEWALD, Sr., Cincinnati, Ohio, assignor of one-half to Edward Dewald, Jr., Cincinnati, Ohio. Filed Dec. 26, 1919. Serial No. 347,365. 2 Claims. (Cl. 173—359.)



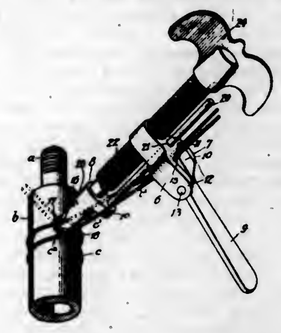
1. A plug body, a disk in said body having an axial projection from one face and contact rings on its upper and lower faces, conducting means for rotatably mounting said disk to turn on said lower ring, connection means for said rings including terminals on said axial projection, a terminal inclosing sleeve fitting over said projection and spring contact means on the body coöperating with the upper contact ring to hold the disk against the rotatable connecting means.

1,347,578. HYDRAULIC PROCESS OF AND APPARATUS FOR CONVERTING ENERGY. HANS BAUDISCH, Vienna, Austria, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed May 8, 1916. Serial No. 96,731. 13 Claims. (Cl. 253—141.)



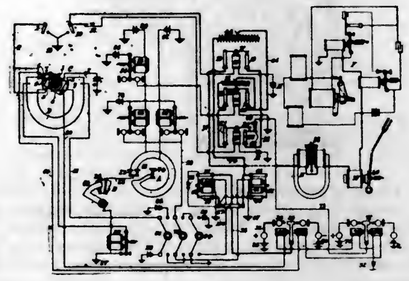
1. The process of translating energy contained in a stream of water to energy of another form which consists in modifying the flow through a rotor located within said stream whereby independent of the effect of the centrifugal force on the flow of a deceleration thereof would tend to be produced.

1,347,579. HOSE-CLAMP TOOL. BERNHARDT HENRIKSON, Chicago, Ill. Filed Sept. 21, 1918. Serial No. 255,183. 4 Claims. (Cl. 81—9.3.)



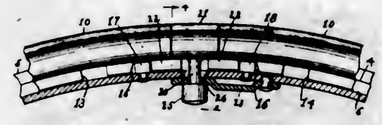
3. In a hose banding tool, the combination of a short transverse frame having in vertical alinement a threaded orifice, a smooth orifice and a stationary clamp jaw, a threaded stem extending through said threaded orifice and having at one end a turn-handle, a head swiveled on the other end of said stem and having a cross-grooved nose, a guide rod fixed to said head extending through the smooth orifice of the frame and back nearly to the turn-handle, and a clamp lever coacting with said clamp-jaw and adapted to clamp both limbs of a hairpin-wire.

1,347,580. PRINTING-TELEGRAPH. GEORGE S. HILTZ, Brooklyn, N. Y., assignor to Stock Quotation Telegraph Company, a Corporation of New York. Filed Oct. 24, 1918. Serial No. 259,507. 9 Claims. (Cl. 178—34.)



1. In a page printing telegraph system of the kind described, the combination with a keyboard, a sunflower, a rotary circuit controller and a clutch magnet operated by currents through the sunflower segments to arrest the circuit controller, of relays operated by the keys, according to the characters which they represent and resistances adapted to be thrown into or out of the line circuit by said relays to cause currents of such different strengths to flow over the single line circuit as will produce the operations necessary in the receiver for printing, feeding and other control of the parts thereof.

1,347,581. VEHICLE-WHEEL RIM. OTTO H. JOESKI, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 30, 1917. Serial No. 183,393. 7 Claims. (Cl. 152—21.)



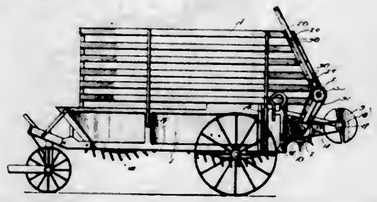
1. The combination with a wheel rim; of a split side flange removably mounted on said rim; and means for locking said flange to said rim, said means including a separable member adapted to engage the juxtaposed ends of said flange, and a member movably attached to said rim independently of, but adapted to engage with said first-named member and lock the same to said rim.

1,347,582. CENTRIFUGAL CASTING-MACHINE. JAMES B. LADD, Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Nov. 1, 1918. Serial No. 260,657. 5 Claims. (Cl. 22—65.)



1. In a centrifugal casting machine the combination with a rotary mold and the supporting framework therefor, of ball bearings between said framework and the ends of the rotary mold, each of said bearings comprising inner and outer bearing members, the two bearing members of one bearing, and one bearing member of the other bearing, being formed each with a circumferential groove serving as a raceway for the bearing balls, and the fourth bearing member having a cylindrical ball engaging surface whereby bodily axial displacement of the mold relative to the framework is prevented while thermal expansion and contraction of the hold is permitted.

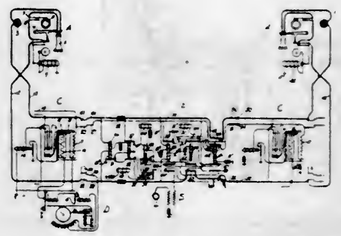
1,347,583. COMBINATION MANURE AND STRAW SPREADER. HENRY L. LITCHFIELD, Waterloo, Iowa. Filed May 7, 1919. Serial No. 295,285. 44 Claims. (Cl. 275—5.)



1. The method of progressively converting a mass of loose material into a light stream of scattered elements, which consists in moving the mass toward a disintegrating and scattering device with a slow rotary motion.

42. The method of distributing a deep mass of loose material which consists in supporting said mass from below and applying a force to the bottom thereof directed toward and adapted to move the mass bodily toward a distributing point, and applying upwardly-directed forces to the upwardly-extending face of the mass at and above said discharge point on the side toward the discharge point at a plurality of different elevations along said face.

1,347,584. AUTOMATIC TELEPHONE SYSTEM. TALBOT G. MARTIN, Chicago, and EMIL JACOBSEN, Evanston, Ill., assignors to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1917. Serial No. 148,478. 21 Claims. (Cl. 179—18.)



21. In a telephone system, a calling and a called line, an automatic switch having line wipers for connecting said lines, a test wiper in said switch, a relay for supplying signaling current through its winding to said called line via one of said line wipers, and means for energizing said relay via said test wiper if the called line is busy.

1,347,585. RESILIENT, NON-PUNCTURABLE, AND DEMOUNTABLE TIRE. FREDERICK A. MECKERT and LOUIS E. BOCK, Philadelphia, Pa. Filed Apr. 25, 1918. Serial No. 230,783. 2 Claims. (Cl. 152—8.)

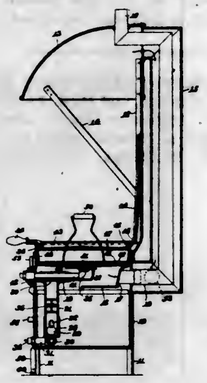


1. A tire composed of a hollow body comprising a shoe, a rim of rigid material within the shoe adjacent the inner periphery thereof, a rim within the shoe adjacent the tread thereof, resilient means in said body between said rims and unattached thereto, said rims and resilient means being insertible in said body through the open inner periphery thereof, members substantially doubly angular in cross section having portions engaging the inner peripheral portion of said body and other portions engageable with a felly, and means passed through the body engaging portions of said members and through the first-named rim.

1,347,586. STOVE. LEON MITCHELL, Dorchester, Mass. Filed Dec. 6, 1919. Serial No. 344,220. 10 Claims. (Cl. 126—39.)

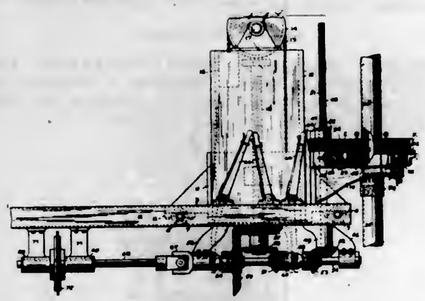
1. In a device of the class described, a kettle for fat provided with a flat bottom having a central depression therein; a screen pivoted to a wall thereof slightly below the top thereof and below the upper surface of the fat contained therein; a frame in the open top of which said

kettle is adapted to be positioned; a heating device within said frame beneath said kettle; and a drain pipe for said



kettle extending from said depression through the wall of said frame.

1,347,587. DRILLING AND OIL-WELL APPARATUS. ROBERT R. POLLAK, San Francisco, Calif. Filed Nov. 14, 1914, Serial No. 872,126. Renewed Jan. 26, 1920. Serial No. 354,252. 9 Claims. (Cl. 255—19.)



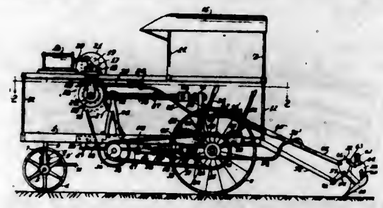
5. In combination, a runway, a carriage thereon, a roller base carried by said carriage, a gear plate revolving on the rollers of said base and having a removable segment, the inner surface of the gear plate being formed with dove-tailed grooves, and flaring grips in said grooves.

1,347,588. ELECTRIC STORAGE BATTERY. FREDERICK W. RADELL, Glenside, Pa. Filed Dec. 27, 1919. Serial No. 347,767. 4 Claims. (Cl. 204—29.)



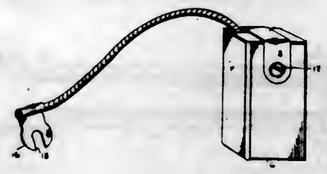
3. In an electric storage battery, grid plates, and a separating bar for the latter, said bar having a crown by which it is adapted to be supported on the respective plate, said plate being provided with means adapted to engage positively said crown to prevent displacement of said bar.

1,347,589. PLOWING-MACHINE. RAFAEL RAMOS and AMBROSE DE CARDENAS, Aguada de Pasajeros, Santa Clara, Cuba. Filed May 19, 1919. Serial No. 298,235. 6 Claims. (Cl. 180—14.)



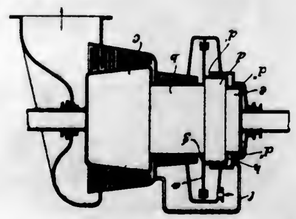
1. In combination with the frame of a tractor, a trailer pivotally secured to said frame, a driving mechanism including a clutch for the traction wheels of the tractor, and a bar provided with a shoulder connecting the trailer with said clutch to disengage the latter when the trailer strikes an obstruction on the ground.

1,347,590. ELECTRICAL CONNECTOR. MAXWELL W. ROBERTSON, Belle Harbor, N. Y., assignor to Godfrey P. Schmidt. Filed Nov. 19, 1917. Serial No. 202,736. 1 Claim. (Cl. 171—326.)



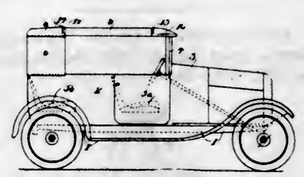
In combination with the brush of a dynamic electric machine, a flexible connection having a loop at one end, a recess in one side of said brush within which said loop is seated, a screw passing through said loop and said brush, a recess at the opposite side of said brush and an L-shaped contact clip adapted to engage said last mentioned recess and extend over the top of said brush, a binder adapted to fit over said loop within said recess, said screw adapted to engage said binder for drawing said clip, brush, and flexible connection together.

1,347,591. COMPENSATING AXIAL THRUST IN MULTISTAGE TURBINES. KARL RÖDER, Mülheim-Ruhr, Germany. Filed May 13, 1915. Serial No. 27,958. 2 Claims. (Cl. 253—69.)



1. In a multi-stage elastic fluid turbine having a separate blade carrying drum for each stage, a casing, a shaft carrying said drums, and a plurality of balancing heads of different diameters also carried by said shaft, there being as many heads as there are drums, one of said heads being adapted to receive a preponderating steam pressure tending to move the shaft in a direction opposite to that in which the driving fluid tends to move it, the smallest head cooperating with a part of the casing to close off the exhaust passage.

1,347,592. BODY STRUCTURE FOR ROAD-VEHICLES AND THE LIKE. ALLIOTT V. ROE, Bursledon, England. Filed Apr. 2, 1920. Serial No. 370,827. 21 Claims. (Cl. 296—102.)



1. A superstructure for road vehicles comprising in combination a canopy superimposed upon the body proper, a rigid auxiliary roof section, a support therefor disposed toward the front of the body proper, a foldable awning permanently connecting said canopy and said auxiliary roof section, and means for supporting the auxiliary roof section as a forward extension to said canopy roof and means supporting the folded awning on said canopy roof when said auxiliary roof section is disposed as a forward extension to said canopy roof.

4. A superstructure for road vehicles, comprising in combination a canopy superimposed upon the body proper, a rigid auxiliary roof section, a support therefor disposed toward the front of the body proper, a foldable awning connecting said canopy and said auxiliary roof section, means for maintaining the awning fully extended and for defining the contour thereof, comprising telescopic former strut members, tensional springs connecting their overlapping ends, and projecting plate members fixed to said canopy roof and to said auxiliary roof structure disposed to support the respective free ends of said strut members, means for supporting the auxiliary roof section as a forward extension to said canopy roof, and means for supporting the folded awning on said canopy roof.

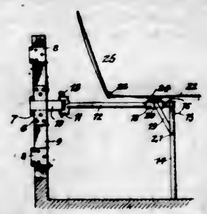
1,347,593. MIRROR DEVICE. HARRY O. RUGH, Chicago, Ill. Filed Aug. 21, 1919. Serial No. 318,865. 7 Claims. (Cl. 45—18.)



1. In a mirror device, the combination with a dished mirror disk having a convex reflecting surface, of a protecting disk cover for the said reflecting surface having an inner concave surface, the degree of concavity of the said cover inner surface being greater than the degree of convexity of the said convex mirror surface.

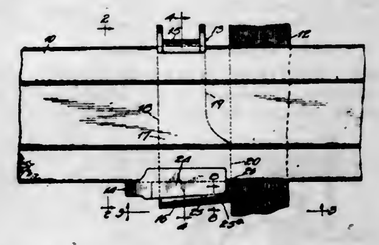
1,347,594. DETACHABLE AUXILIARY SEAT FOR AUTOMOBILES. BERTHOLD SALINGER, New York, N. Y. Filed Oct. 4, 1919. Serial No. 328,570. 9 Claims. (Cl. 155—10.)

2. An auxiliary seat for automobiles, comprising a hinge operative in line with the ordinary hinges of a door and having one member free of the door and extending beyond the inner face of the door, a bar vertically pivoted at one end to the free member of the hinge, a seat carried by the bar and adapted to be set in horizontal and vertical positions parallel with the bar and a supporting leg pivotally



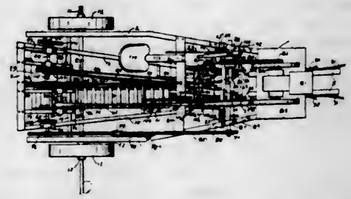
connected to the other end of the bar so as to fold parallel with the seat or be placed at right angles to the bar.

1,347,595. RAIL-ANCHOR. JOHN M. SCOTT, Racine, Wis., assignor to Otto R. Barnett, Chicago, Ill. Filed Nov. 8, 1918. Serial No. 261,694. 19 Claims. (Cl. 238—324.)



1. A rail anchor comprising a member to extend under the base flange of a rail, and a key adapted to be driven between said member and the rail and provided with a bendable portion on its side adapted to be bent downwardly into locking engagement with the said member to prevent reverse movement of the key.

1,347,596. BEET-HARVESTER. WALTER B. SMITH, Springfield, Ohio. Filed Sept. 17, 1915. Serial No. 51,196. 4 Claims. (Cl. 55—108.)

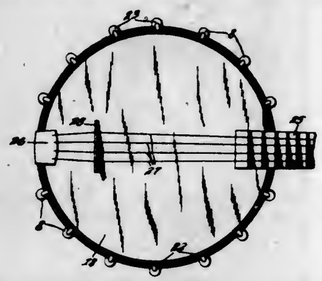


1. In a beet harvester, beet digging mechanism, a topping device, endless chains for gripping the tops of the beets as they are dug from the ground, an endless carrier to receive the body portions of the beets from the digging mechanism, and a device disposed below the gripping chains and slightly in advance of the endless carrier, to properly position the body portions of the beets on the latter, substantially as described.

1,347,597. BANJO. EPAMINONDAS A. STATHOPOULO, New York, N. Y. Filed June 17, 1919. Serial No. 304,812. 1 Claim. (Cl. 84—124.)

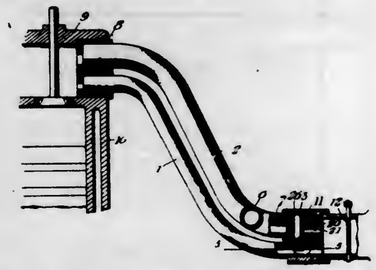
A banjo comprising a main body, a ring imposed upon said body, said ring comprising a relatively deep flange

encircling the main body and having engagement with the peripheral surface of said body, an arcuate portion secured to said flange, a depending flange secured to said arcuate portion, a ring secured to said depending flange, said ring being seated upon the upper face of said body at



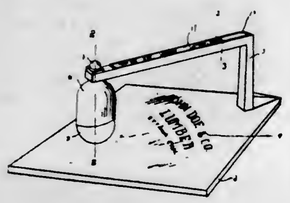
the inner edge thereof, said flange, arcuate portion, and depending flange being so arranged as to form with said body a chamber, a vibratory head stretched over the first mentioned ring and forming with said arcuate portion a chamber, and means for varying the tension of said head.

1,347,598. MULTIPLE-INTAKE MANIFOLD. HARRY PRICE STURM, Clarksburg, W. Va. Filed Apr. 11, 1919. Serial No. 289,229. 5 Claims. (Cl. 123—52.)



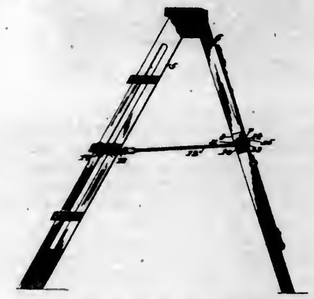
1. A distributer block for a multiple manifold, having passages for receiving low speed sets of conduits and auxiliary sets of conduits, the auxiliary conduit passage including an annular enlargement merging into a valve cage bore, a valve cage fitted in said bore, a spring-seated valve in said cage arranged to open into the annular enlargement by virtue of increased engine speed, a cam shaft journaled on said block, a cam on said shaft operating against the stem of the valve, and an externally applied arm on said shaft, arranged to be operated by associated throttle valve actuating means.

1,347,599. PAPER-WEIGHT. JOHN B. SUMNER, Fort William, Ontario, Canada. Filed Sept. 18, 1919. Serial No. 324,616. 1 Claim. (Cl. 120—82.)



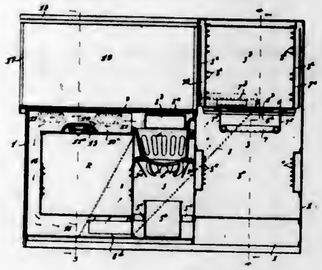
A paperweight consisting of a base, an arm mounted on said base having an outwardly extending portion, an inverted cup-shaped member carried on the under side of said outwardly extending portion, a ball loosely held by said cup-shaped member on said base and said ball being adapted to be pushed into said cup-shaped member when paper is placed between said ball and said base.

1,347,600. STEPLADDER. AUGUST SWANSON, Cedar Rapids, Iowa. Filed Mar. 8, 1920. Serial No. 364,280. 5 Claims. (Cl. 228—33.)



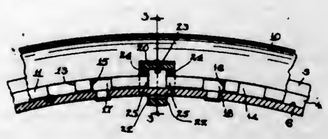
1. In combination with a step-ladder having folding legs, a bridge-bar pivoted to said legs, a brace-rod pivotally connecting with one of the steps, and slidably connecting with the bridge-bar, means to limit the outward movement of the bridge-bar on the rod, and a lock to engage its end when in holding position.

1,347,601. COMBINATION COAL AND GAS RANGE. THOMAS E. TAYLOR, Mansfield, Ohio, assignor to The Eclipse Stove Company, Mansfield, Ohio, a Corporation of Ohio. Filed May 2, 1919. Serial No. 294,158. 22 Claims. (Cl. 126—36.)



1. In a cooking range, a casing having coal and gas ovens on opposite sides of and heated by a fire box and provided with a chimney flue said casing having separate indirect coal and gas flues surrounding said coal and gas ovens, respectively.

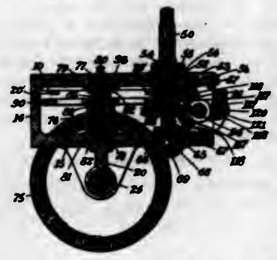
1,347,602. VEHICLE-WHEEL RIM. JOSEPH C. THEBERATH, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 9, 1917. Serial No. 201,163. 8 Claims. (Cl. 152—21.)



1. The combination with a wheel rim; of a side-flange removably mounted on said rim; and a locking member

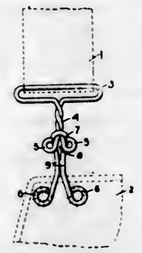
adapted to secure said flange to said rim, said member being rotatable about an axis substantially tangential to the latter into and out of engagement with said flange and said member being formed to contact with the tire shoe when the latter is in place and to be thereby held against rotation.

1,347,603. SPRING-MOTOR. MELVILLE E. A. TUCKER, New York, N. Y. Filed Sept. 19, 1916. Serial No. 120,964. 21 Claims. (Cl. 185—37.)



16. In a motor, the combination with a frame of a rotary actuating member carried thereby, a bearing detachably secured to said frame and extending through a wall thereof, a spindle rotatably mounted in said bearing, a gear secured to said spindle and arranged to be rotated as a result of the rotation of said actuating member, a rotatable governor carried by said frame, and a gear carried by said spindle and arranged to rotate said governor, said spindle being arranged to be freely removed laterally from said frame after said bearing has been detached from said frame and separated therefrom.

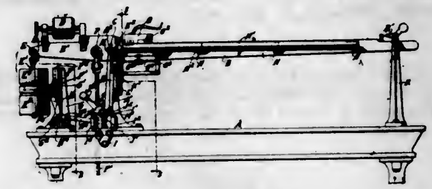
1,347,604. SEPARABLE FASTENER. ANDREW O. VESTINE, Watertown, Mass., assignor to L. C. Chase & Company, Boston, Mass., a Firm. Filed May 15, 1919. Serial No. 297,325. 2 Claims. (Cl. 24—228.)



1. A separable fastener composed of two members, one member being made from a length of wire bent centrally to form an elongated loop, the meeting portions of the wire being twisted together and presenting a neck portion which extends at right angles from one side of the loop, and the ends of the wire being bent into oppositely-disposed eyes which form a cross-head, and the other member being formed of resilient wire which is bent centrally to form a loop portion that has two resilient sides in close proximity and an eye portion at the bend of the loop which is larger than the neck portion of the first-named member, the resiliency of the sides of the loop permitting the cross-head of the first-named member to be inserted through the eye.

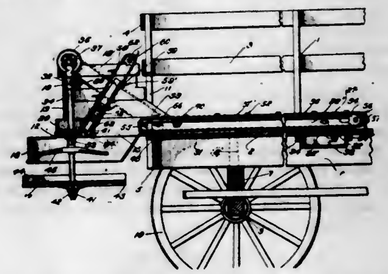
1,347,605. WEIGHING-SCALE. AXEL S. VOGT, Philadelphia, Pa. Filed Jan. 22, 1920. Serial No. 353,292. 4 Claims. (Cl. 265—32.)

1. In a beam scale having a sliding poise with an index finger and a counter poise weight by shifting which the weighing capacity of the scale can be increased, a shiftable index scale support having two index scales, one adapted to register with the index finger on the sliding poise in one position of the support and the other to so



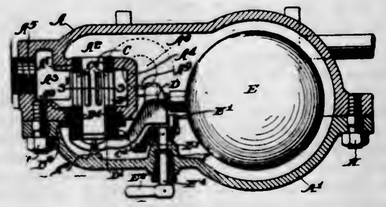
register in another position of the support, in combination with a counter poise weight lifting and lowering device, means for actuating said device and means for shifting the index scale support actuated by the mechanism which lifts and lowers the counter poise weight.

1,347,606. STRAW-SPREADING MECHANISM. HALBERT C. WALLACE, Kansas City, Mo. Filed Oct. 19, 1918. Serial No. 258,801. 20 Claims. (Cl. 275—5.)



6. The combination with a vehicle body of a spreading device comprising a frame mounted within said body and extending therefrom a hopper supported by said frame at the rear end of said body and having an opening for receiving material therefrom and having a discharge opening at the base thereof, a conveyer mounted in said frame within the vehicle body, a revoluble spreading element suspended beneath the hopper discharge opening, and a feeding belt operating within the said hopper for forcing a feed of material through the hopper openings and onto the delivery element.

1,347,607. STEAM-TRAP. AXEL B. WALLEM, Cynwyd, Pa., assignor, by mesne assignments, to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 27, 1919. Serial No. 300,041. 3 Claims. (Cl. 137—103.)



2. A steam trap comprising inlet and outlet chambers having a casing made up of two separable cast sections, and having its outlet chamber formed in one of said sections by a wall projecting into the inlet chamber portion thereof, and comprising two oppositely lying wall portions through which alined openings are formed, in

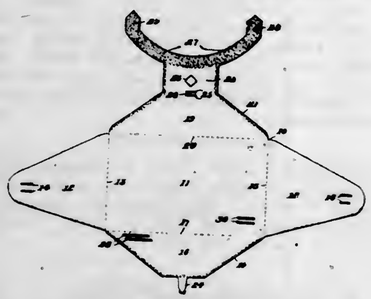
combination with a tubular valve seat member having its ends received in said opening, and formed with ports between its ends, a tubular valve mounted in said valve seat member and held in place by abutment against the separable cast section of the casing and a float in the inlet chamber connected to said valve.

1,347,608. COFFEE-GRINDING MACHINE. FREDERICK A. WILCOX and EDWARD L. MCGRORY, Spokane, Wash. Filed Aug. 5, 1919. Serial No. 315,382. 3 Claims. (Cl. 130—17.)



1. The combination with a mill as described, including its outlet pipe and a joint member secured thereto forming a separating casing, of a conveyer pipe connected to the joint member with its upper open end in alinement with and directly beneath the outlet pipe, a suction pipe secured to the joint member and having a lateral connection with the casing, and said casing having an air inlet port opposite the lateral connection.

1,347,609. ENVELOP. JOSEPH WISKI, Milwaukee, Wis., assignor of one-half to Joseph Olesiak, Milwaukee, Wis. Filed Jan. 9, 1919. Serial No. 270,311. 1 Claim. (Cl. 229—82.)

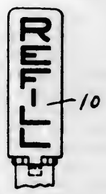


An envelop comprising a rectangular body portion having slits in one corner thereof, an end flap formed on the opposite side edges of said body and each provided with a pair of spaced slits, securing means arranged in said slits when the flaps are folded over in overlapping relation, a rear top triangular-shaped flap formed on one edge of said body and provided at its apex with a locking tongue, said flap also having slits in one corner thereof, a triangular-shaped rear bottom flap formed on said body at an edge remote from said rear top flap, a reduced neck portion formed from the apex of said rear bottom flap, said neck portion having spaced slits therein at the point of juncture of said neck with said flap, and oppositely extending curved arms formed on the free end of said neck and having adhesive on one side thereof, said arms adapted when in folded position to be extended through the slits in the body and rear top flap said locking tongue extended through the slits of said neck when said rear top and bottom flaps are folded against said body, for holding said flaps against separation.

1,347,610. SEPARATION OF MAGNESIUM FROM COMPOUNDS AND MIXTURES OF MAGNESIUM AND CALCIUM CARBONATES. HENRY WILLIAM COUPE ANNABLE, Egham, England. Filed June 29, 1918. Serial No. 242,675. 5 Claims. (Cl. 23—13.)

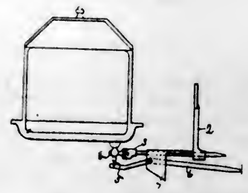
1. A process for the separation of magnesium from compounds and mixtures of magnesium and calcium carbonates which comprises calcining the associated carbonates, then treating them with carbon dioxid, then heating them suspended in water under pressure with the chlorid of an alkaline earth metal in quantity equivalent to the magnesium present.

1,347,611. SUPPORT FOR FIRE-EXTINGUISHERS. WALTER J. BLENKO, Lancaster, Ohio. Filed Aug. 2, 1919. Serial No. 315,008. 7 Claims. (Cl. 248—20.)



4. In an apparatus of the character described, the combination of a support or bracket for supporting the fire extinguisher, a wall-plate, a vertically movable hinge member secured to said plate, and to said bracket, a linkage connecting the upper end of said bracket with said wall-plate, said linkage having a vertically movable connection with said plate, a latch engaging said bracket to hold the same in vertical position, and a spring connected to said hinge member, a support for the other end of said spring, whereby when the weight of said extinguisher is decreased said spring operates to release said bracket from said latch.

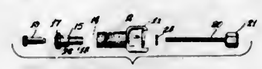
1,347,612. VALVE CONTROL FOR RADIATOR DRAIN-COCKS. HERMAN BRANDT, Fort Worth, Tex. Filed Mar. 6, 1919. Serial No. 280,967. 3 Claims. (Cl. 137—139.)



1. A valve controlling and cleaning device comprising a rocker-shaft provided with a handle and a clutch for engaging a valve handle, a combined hanger and bracket for mounting said shaft on an automobile, a lever fulcrumed in said bracket, and a rod loosely connected to said lever and adapted to enter a radiator drain pipe.

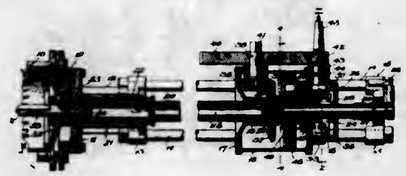
1,347,613. VIOLIN-PEG. PETER D. BROWN, Kingston, Canada. Filed Nov. 25, 1919. Serial No. 340,472. 2 Claims. (Cl. 84—78.)

2. A violin peg having a body portion, a winged end formed on said body portion, a tightening member partially telescoping into the small end of said body portion, a head on said tightening member, said tightening member having an internally threaded portion, a central longitudinal opening through said winged end and said body portion, a washer on the outer face of said winged



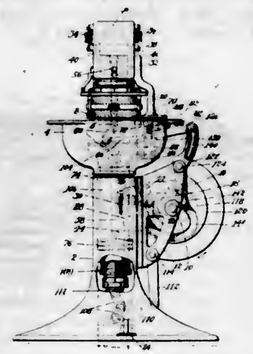
end, a pin having a nut at its outer end, said pin extending through said opening and threadedly engaged internally of said tightening member, said body portion having a V-shaped groove formed upon its periphery to receive a violin string.

1,347,614. DRILLING-MACHINE. WILLIAM R. BROWN, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Apr. 1, 1919. Serial No. 286,762. 28 Claims. (Cl. 77—38.)



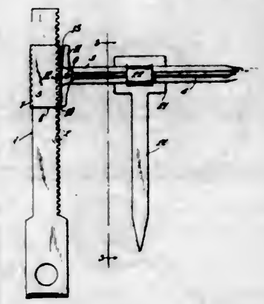
1. In a machine of the class described, the combination of a supporting frame, a cutter shaft rotatably mounted in said frame, gear mechanism for rotating said shaft, a manually operable shaft for actuating said gear mechanism, a power shaft removably mounted on said frame, and a disconnectible connection between said manually operable shaft and said removably mounted power shaft.

1,347,615. CUTTING-MACHINE. IRA C. BUCKMINSTER, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 17, 1916. Serial No. 98,199. 89 Claims. (Cl. 164—21.)



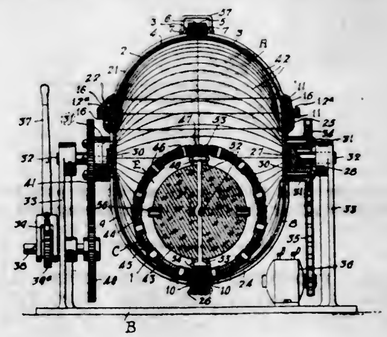
1. . machine of the class described having, in combination, a cutting block, a die, means for effecting successive relative movements of said block and die to cause the die first to cut partly through the stock and then to complete the cut, and means for moving the die to feed the stock in the interval between said two relative cutting movements of the die and the block.

1,347,616. GRIPPER FOR PRINTING-PRESSES. FRANK CARPER, Cleveland, Ohio, assignor of one-sixth to Patrick S. Grady, Cleveland, Ohio. Filed Jan. 8, 1920. Serial No. 350,075. 1 Claim. (Cl. 101—408.)



A gripper notched along one edge and provided with a finger having a frame slidable along the gripper, said frame having front and back walls between which the gripper is inclosed, the front wall having an ear projecting inwardly beyond the edge of the gripper, a pivot pin connecting said ear and the finger, and a spring catch pivoted on said pin, between the ear and the finger and adapted to engage any one of the notches.

1,347,617. WASHING-MACHINE. REED J. CLARK, Jr., Youngstown, Ohio. Filed Sept. 29, 1919. Serial No. 327,274. 2 Claims. (Cl. 68—18.)

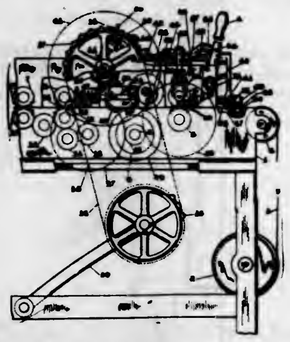


1. A washing machine including a hollow water-tight casing, a plurality of metal straps extending around said casing in a plurality of planes and connected together to form a frame, trunnions fixed to said straps at an axis of the frame, and bearings for supporting said trunnions to adapt the frame to rotate.

1,347,618. MACHINE FOR CUTTING MOVING MATERIAL INTO LENGTHS. KENNETH M. CLIPSHAM and MAUNSELL B. JACKSON, Jr., Toronto, Ontario, Canada, assignors to Ernest F. Arnold and Frederick F. Arnold, trading as Arnold Machine Co., Toronto, Ontario, Canada. Filed July 31, 1919. Serial No. 314,475. 10 Claims. (Cl. 164—49.)

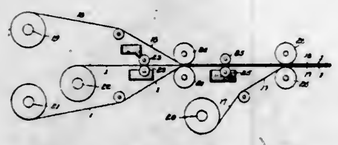
1. In apparatus for cutting material into lengths in which the stock is in continuous motion and the cutting means, when cutting travels with and at the same rate of speed as the material to be cut, a block, carrying a stationary shear blade and a movable shear blade, movable parallel to the plane of movement of the material to be

cut; means for feeding the stock; means for moving the block in the same direction as the stock and at the same speed for a sufficient length of time for a cut to be made and thereafter returning it to the initial position; a cam movable to and from a position to operate the movable



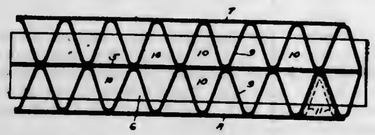
shear blade as the blade is moved under the cam, and means for holding the cam stationary during the operation of the blade, the blade being adapted for operation by said cam and provided with spring means tending to return it to its normal raised position.

1,347,619. PAPER OR PAPER-BOARD AND METHOD OF MAKING THE SAME. FRANK B. DAVIDSON, Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 21, 1919. Serial No. 291,655. 9 Claims. (Cl. 154—50.)



1. A paper sheet having a ply made from pulp having substantially all of the fibers thereof impregnated with wax.

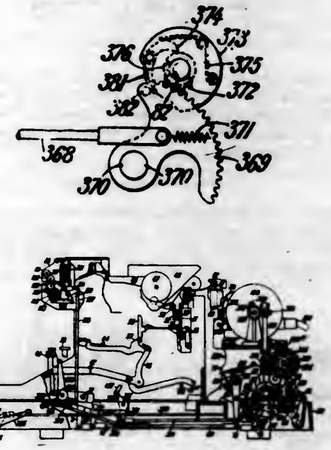
1,347,620. PHOTOGRAPHER'S DEVELOPING RACK. BENJAMIN R. DAY, Winfield, Kans. Filed Feb. 20, 1920. Serial No. 360,221. 3 Claims. (Cl. 95—100.)



1. A device of the character described comprising a central upstanding web and a supporting base in combination with a corrugated web extending up one side and down the other side of the central web.

1,347,621. COMBINED TYPEWRITING AND COMPUTING MACHINE. GUSTAVE O. DEGENER, Brooklyn, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1917. Serial No. 201,626. 100 Claims. (Cl. 235—59.)

1. In a combined typewriting and computing machine, the combination with numeral keys and computing wheels, of a variably movable element, driving means, interponents on said element, one for each numeral key, each interponent being movable to an effective position by its numeral key, and a universal bar operated by said numeral keys to release said driving means so that the latter can move said variably movable element by the effective interponent.



6. In a combined typewriting and computing machine, the combination with numeral keys and dial wheels, of a variably movable shaft, valuating cams, one for each numeral key, said valuating cams being effective to oscillate said shaft through different angular distances, a drive-shaft common to said cams, and a motor-drive for said drive-shaft under the control of said numeral keys.

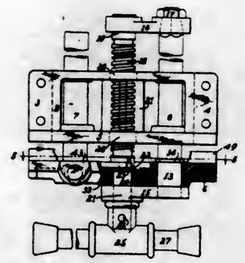
93. The combination with a traveling element, of mechanism for producing skipping movements of said element, a power-drive, and means for simultaneously rendering said skip-producing mechanism and said power-drive ineffective.

1,347,622. VACCINE-INJECTOR. ARTHUR E. DEININGER, St. Paul, Nebr. Filed Mar. 29, 1919. Serial No. 286,029. 6 Claims. (Cl. 128—217.)



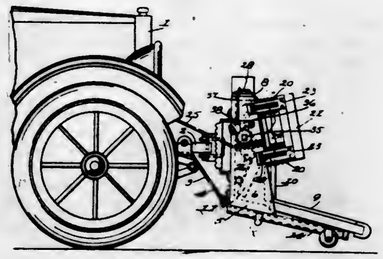
4. A hypodermic syringe comprising a magazine, a needle positioned below the magazine, a sliding plate arranged intermediate the magazine and needle, said plate having an opening formed therein arranged to alternately register with the magazine and needle, means for sliding the plate in the casing, spring means engaging said plate to hold the same in its raised and lowered positions against displacement, a slidable plunger, and means for actuating the plunger.

1,347,623. VISE. CHARLES SUMNER EVANS, Berkeley, Calif. Filed Feb. 16, 1916. Serial No. 78,659. 46 Claims. (Cl. 81—36.)



14. In a vise, a main frame, a nut in said frame, a movable frame arranged in said main frame, a pivoted slide forming part of said movable frame, links attached to said pivoted slide, a screw supported in said links and adapted to be moved transversely into and out of said nut, and means including one of said links for locking said screw in said nut.

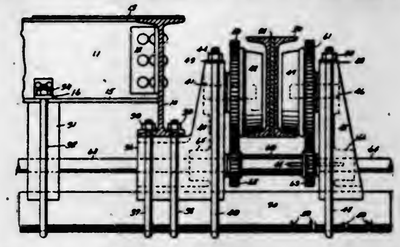
1,347,624. AUTOMOBILE-FENDER. PETER FEDOROW, Chicago, Ill. Filed May 7, 1920. Serial No. 379,471. 2 Claims. (Cl. 293—25.)



1. In a device of the character described, in combination, a support adapted to be mounted on the chassis of an automobile, a collapsible platform mounted on said support, means comprising a spring mounted on said support continually urging said platform to assume extended position, means whereby said platform may be held in collapsed position against the action of said spring, a plurality of other springs mounted on said support, a bumper-member yieldably mounted on said support and engaging said last-mentioned springs, said platform and bumper-member being adapted to coöperate to yieldingly receive and carry a person or other movable object encountered by said device.

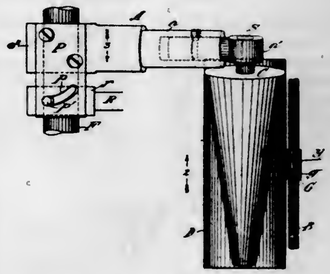
1,347,625. RUNNING-GEAR FOR TRAVELING CRANES. BENJAMIN F. FITCH, Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del., a Corporation of Delaware. Filed May 26, 1919. Serial No. 299,766. 20 Claims. (Cl. 105—163.)

1. The combination with the structural frame of a traveling crane or similar structure, of a bar secured thereto by tension members and projecting laterally therefrom, a pair of castings riding on the bar, supporting wheels



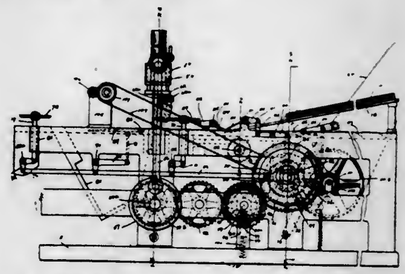
carried by the castings, and tension members securing the bar-castings to the projecting portions of the bar.

1,347,626. WINDING-MACHINE. GEORGE W. FOSTER, Providence, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 7, 1916. Serial No. 124,373. 10 Claims. (Cl. 242—43.)



1. In a winding machine, the combination with a rotatable cone-holder on which the cone is wound with a gradually increasing taper on its surface, of means for traversing the yarn longitudinally of the holder, and means for continuously displacing the holder in the direction of its apex throughout the winding to regulate the disposition of the layers of yarn in their overlapped relation to prevent the nose of the cone from becoming abnormally concaved.

1,347,627. PRINTING-PRESS. CLAUDE L. FRIEL, Chicago, Ill. Filed Sept. 22, 1919. Serial No. 325,478. 6 Claims. (Cl. 101—78.)



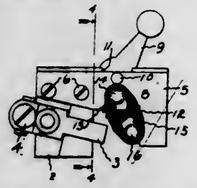
1. A printing press comprising a frame, a carriage mounted in said frame, means on said carriage to grip and carry a sheet of paper; means to intermittently move said carriage; in combination with printing means adapted to print upon the paper carried by said carriage when said carriage stops in its travel toward the tail.

1,347,628. WINDSHIELD-CLEANER. FRANK S. GOLD, Toronto, Ontario, Canada. Filed Apr. 7, 1920. Serial No. 372,010. 5 Claims. (Cl. 15—59.)



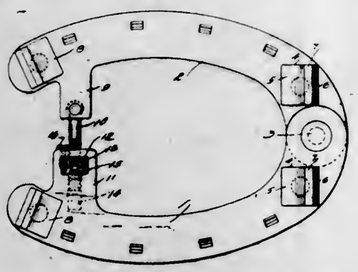
1. A windshield cleaner comprising a spring roller provided with a mopping surface; and flexible belts, each connected at one end to the roller and adapted to be wound thereon and having its other end connected with a stationary part at one side of the surface to be cleaned; and means for drawing the roller over the surface to be cleaned.

1,347,629. ELECTRIC SWITCH. MONROE GUETT, Hartford, Conn., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed July 15, 1919. Serial No. 310,932. 5 Claims. (Cl. 200—67.)



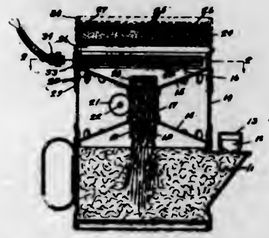
1. An electric switch comprising a swinging arm of insulating material, a contact bridging part of conducting material, supported at the free portion of the insulating arm, an actuator mounted for back and forth movement and provided with a pin, a spring, and an insulating arm supporting the spring, the spring being interposed between the pin and the bridging member, and the pin acting on each motion of the actuator, to condition the spring to snap the switching member, after said pin has crossed the dead center line which intersects the axis of motion of the switching member and the center of the contact-bridging part.

1,347,630. HORSESHOE. ANTON HADEN, Clay Center, Kans. Filed Feb. 15, 1917. Serial No. 148,838. 1 Claim. (Cl. 168—19.)



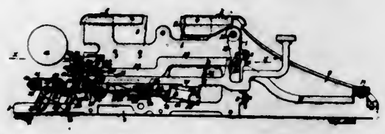
A sectional horseshoe, the sections of which are formed at their rear ends with oppositely disposed sockets, a screw-threaded rod pivotally carried by one of said sockets for projection into the second socket, said second socket being formed with an elongated aperture, a peripherally grooved adjusting disk operatively arranged upon said rod within the apertured portion of said second socket, and a screw releasably carried by said second socket for locking engagement with any one of the grooved portions of said disk.

1,347,631. CATALYTIC HEATING APPARATUS. JEAN HERCK, New York, N. Y., assignor, by direct and mesne assignments, to La Societe Lyonnaise Des Rechauds Catalytiques, Camell, Cochet, Gritte & Cie., Lyon, France. Filed Apr. 25, 1917. Serial No. 164,392. 3 Claims. (Cl. 158—96.)



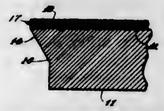
1. A portable catalytic heating apparatus comprising a closed container adapted to receive a supply of volatile combustible fluid, a porous body of catalytic material arranged in the top of said container above the fluid therein and forming a closure therefor, an electric heating element arranged in said container adjacent said catalytic body to heat it, and also the vapor of the volatile fluid therein, said heating element having its terminals extended through the side wall of said container and arranged for detachable connection to a source of electric energy.

1,347,632. TYPEWRITING-MACHINE. JOSEPH B. HOLDEN, Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Oct. 8, 1919. Serial No. 329,285. 6 Claims. (Cl. 197—97.)



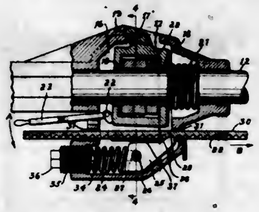
1. In a typewriting machine, a universal-bar frame comprising a front cross bar, a pair of side bars extending backward from its ends, and a rear cross bar connecting the side bars together, the whole frame being composed of a single piece of sheet metal bent where the cross bars intersect the side bars, and the lateral faces of the side bars being in planes that are perpendicular to the length of each cross bar.

1,347,633. SPOT-GROUND. AARON C. HORN, New York, N. Y. Filed Mar. 14, 1917. Serial No. 154,711. 6 Claims. (Cl. 72—105.)



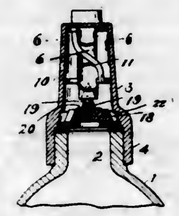
1. A spot ground for concrete or similar floor, wall, or partition construction comprising a fiber block, said fiber block formed with a face for nailing wooden building parts thereto, and having an enlarged base and a nonmetallic waterproofing strip attached thereto, said strip having an exposed rough pebbled surface.

1,347,634. AUTOMATIC SLACK-ADJUSTER. WALTER W. HUNZICKER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 18, 1919. Serial No. 318,127. 17 Claims. (Cl. 188—199.)



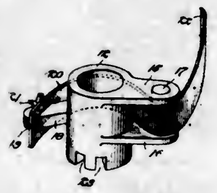
1. A slack adjuster comprising, in combination, a two-part telescopic push rod, one of said parts containing a housing, and a holding device movably arranged within the housing and adapted to engage one of the parts to prevent relative movement of said parts in one direction, said holding device comprising a holder and a plurality of dogs arranged within the holder.

1,347,635. LIQUID-DISPENSING DEVICE. JACOB W. KAISER, East Cleveland, Ohio. Filed No. 22, 1916. Serial No. 132,745. 9 Claims. (Cl. 215—69.)



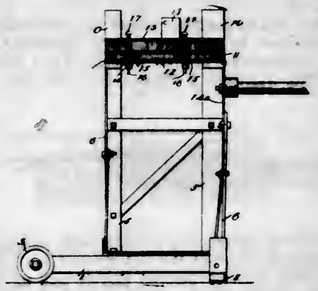
1. A liquid dispensing device comprising a receptacle having an outlet portion; a baffle device within the outlet portion; a check valve between the baffle device and the receptacle, said valve having a body portion and an extending head, the body of the valve having a slanting surface at the outer portion thereof, the extending head also having a slanting surface; guiding means coöperating with the slanting surfaces upon the valve head and body portion whereby when the outlet portion of the device is moved above the receptacle the valve moves to its seat.

1,347,636. TIMER. WALTER C. KARNES, Joplin, Mo. Filed Oct. 7, 1919. Serial No. 329,057. 3 Claims. (Cl. 200—26.)



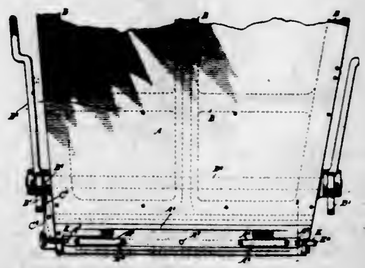
2. A brush structure for timers comprising a body portion adapted to be non-rotatably secured to a timer shaft, spaced lateral arms on the body portion, an abutment pin connecting the arms, and a brush element secured to the body portion and extending between the arms and around the abutment to form a contact engaging terminal.

1,347,637. STAND. EMMOR HAMILTON KELLEY and GEORGE ALVA STEWART, Jr., South Brownsville, Pa. Filed Oct. 25, 1919. Serial No. 333,192. 6 Claims. (Cl. 29—89.)



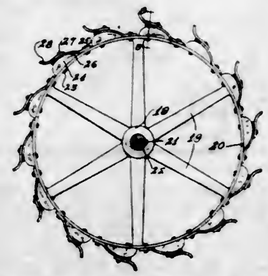
6. A support of the character specified having upstanding webs spaced apart from each other, posts mounted in the webs and adjustable longitudinally thereof and spaced apart from each other to engage within the engine pan bolt holes, one of the webs having a bracket plate provided with an opening adapted to register with one of the water intake bolt holes when the posts are in engagement with the engine pan bolt holes.

1,347,638. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Apr. 15, 1919. Serial No. 290,128. 25 Claims. (Cl. 199—44.)



12. A linotype magazine provided with a matrix locking bar shiftable longitudinally thereon and means for projecting said bar into the magazine as it is shifted longitudinally.

1,347,639. CARCASS-SCRAPING WHEEL. JOHN W. KOHLHEPP, Chicago, Ill., assignor to Allbright-Nell Co., a Corporation of Illinois. Filed June 6, 1918. Serial No. 238,476. 2 Claims. (Cl. 17—11.)



1. A carcass cleaning and dehairing device comprising a rigid wheel, solid rubber pads rigidly secured on the

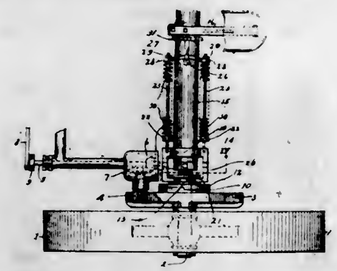
wheel, arms bent to conform to the shape of said pads and resting on said pads, and scraper blades rigidly secured to said arms to project beyond the free ends thereof.

1,347,640. DRAFT-ARM. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed May 6, 1918. Serial No. 232,759. 1 Claim. (Cl. 105—420.)



A draft arm comprising a main body portion provided with shoulders adjacent the end sill and the body bolster, an associated member secured thereto and having an offset portion over the body bolster, a reinforcing member operatively connected to said associated member and mounted over the body bolster, and a member secured to said associated member forming with the end of said body portion shoulders between which the body bolster is received, said associated member having one end thereof engaging a shoulder on the body portion adjacent the end sill.

1,347,641. SEAT AUTOMATIC GEAR CONTROL. ALLEN H. LEWIS, Wichita, Kans. Filed Oct. 27, 1919. Serial No. 333,649. 1 Claim. (Cl. 180—82.)



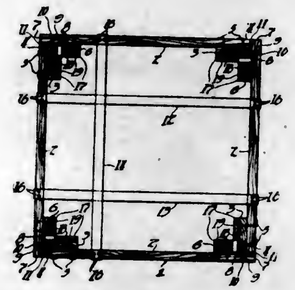
In an agricultural implement, a clutch, a vertically movable seat, means operatively connecting said clutch with said seat, and a spring for simultaneously opening said clutch and lifting said seat; one element of said operative connecting means being constructed to be shiftable in such manner as to permit of the opening of said clutch when said seat is in depressed position.

1,347,642. COMFORT AND THE LIKE. LUCIE R. MCNATT, Arlington, Tex. Filed Jan. 23, 1920. Serial No. 353,563. 1 Claim. (Cl. 5—3.)



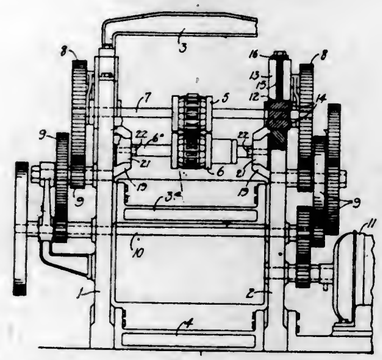
A comfort constructed of two covers and a filling material inclosed between the covers, and quick detachable clasps consisting of a socket member attached to the inside of one cover and a lug member attached to the inside of the other cover with the lug thereof penetrating and passing through the filling material into the socket of the socket member.

1,347,643. PACKING-FRAME. GEORGE T. MALLETTE, Irvington, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Sept. 22, 1917. Serial No. 192,652. 10 Claims. (Cl. 217—52.)



1. In a packing frame, a plurality of side-pieces, fastening devices directly and adjustably connecting the adjacent pieces together thereby forming a frame the adjacent pieces of which are adjustable in directions at an angle to each other and pads applied to said pieces and adapted to be moved into engagement with an article to be packed upon adjustment of the frame, substantially as described.

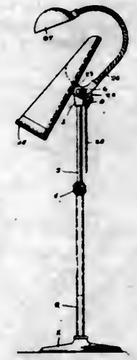
1,347,644. ROTARY PUNCH-PRESS AND THE LIKE. AXEL C. V. MALM, Philadelphia, Pa., assignor to The Malm Machine Company, Dayton, Ohio, a Corporation of Ohio. Original application filed May 25, 1916, Serial No. 99,915. Patent No. 1,286,377. Divided and this application filed Oct. 7, 1918. Serial No. 257,127. 9 Claims. (Cl. 64—52.)



6. In a machine of the character described, a frame comprising side members having dove-tailed guideways, a rotary member arranged between said frame members and comprising a shaft, bearing blocks to receive the ends of said shaft, said bearing blocks being dove-tailed to fit within the respective guideways, dove-tailed stop blocks adapted to enter the respective guideways and each having a set screw adapted to engage the base of said guideway and force the dove-tailed portion of the stop block into locking engagement with the dove-tailed portion of the guideway.

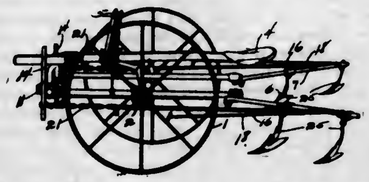
1,347,645. POSTING-STAND. FRED L. MANNY, Benton Harbor, Mich., assignor to Baker-Vawter Company, Benton Harbor, Mich., a Corporation of Michigan. Filed Dec. 17, 1917. Serial No. 207,393. 5 Claims. (Cl. 45—60.)

5. A posting stand comprising a standard, a block fixed to the top of said standard, said block being formed with a horizontal split clamping bore and equipped with a clamping bolt, a supporting rod seated in said bore and formed with a longitudinal groove, a center rack plate provided with an orificed bracket engaging said rod, and op-



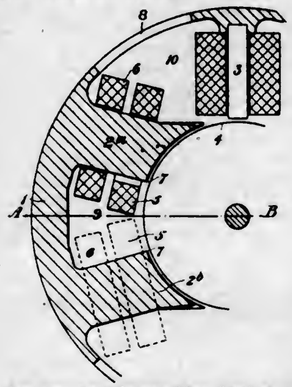
posite side rack plates provided with orificed brackets engaging said rod, said brackets being equipped with set screws arranged to engage said longitudinal groove in the supporting rod.

1,347,646. COTTON-CHOPPER ATTACHMENT FOR CULTIVATORS. WILLIAM A. MARTIN and MATHEW P. ROEBUCK, Waxahachie, Tex., assignors of one-third to Geo. E. White, Fort Worth, Tex. Filed Oct. 31, 1919. Serial No. 334,707. 6 Claims. (Cl. 97—48.)



1. Attachments for cultivators comprising supplemental beams pivotally connected at their front ends to the cultivator beams, a cross draft beam mounted on the forward part of the cultivator, adjustable connections connecting said cross beam and the rear ends of said supplemental beams, and plows mounted on said supplemental beams.

1,347,647. DYNAMO-ELECTRIC MACHINERY. JOHN HERBERT ST. HILL MAWDSLEY, Dursley, and HENRY FRANCIS JOEL, Sr., Forest Gate, England. Filed Mar. 12, 1917. Serial No. 154,345. 3 Claims. (Cl. 172—36.)



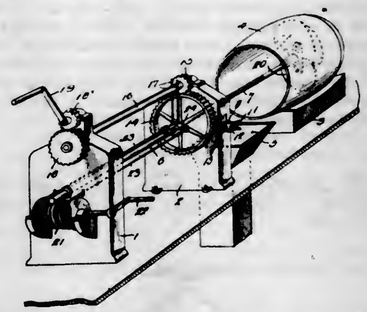
1. A dynamo electric machine having non-radial pole cores in pairs and interpoles between said pairs of pole cores, said pole cores having a substantially constant diameter the length of said pole cores, in combination with a plurality of field coils upon a pole of said pole cores, one of said coils being a series coil of larger diameter than the pole core and spaced to provide a ventilating duct from a peripheral pole end along the surface of the said pole to the outside surface of the remaining field core winding.

1,347,648. BRUSH. JOHN MORRISON, Jr., Glens Falls, N. Y. Filed Feb. 4, 1920. Serial No. 356,194. 4 Claims. (Cl. 15—30.)



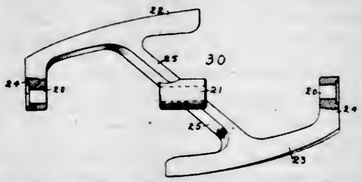
1. In a brush the combination of a shell, a wooden core housed within said shell, metallic fastening members secured to said shell and also secured to the inner surface of said core, a cement filling housed within said shell and engaging said core, and bristle tufts supported by said cement filling.

1,347,649. MACHINE FOR EMPTYING BARRELS. CLIFFORD C. MOSHER, Lima, Ohio. Filed Sept. 22, 1919. Serial No. 325,457. 2 Claims. (Cl. 83—6.)



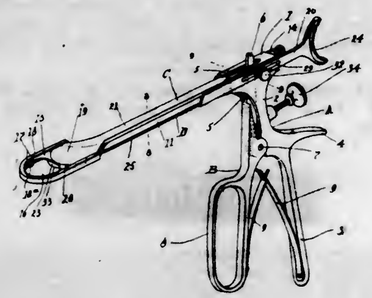
1. A device for the purpose described, comprising the combination of a cradle to support a container in horizontal position, a screw-threaded shaft journaled to move longitudinally in the axis of the container, means to rotate said shaft, a half-nut arranged to be engaged with or disengaged from the screw-thread on said shaft, a cutter head, having scoop-shaped blades on the end of said shaft, and means to retract said shaft and head bodily when said half-nut is disengaged from the shaft.

1,347,650. RUBBER-CEMENT-MIXING MACHINE. CLIFFORD C. MOSHER, Lima, Ohio. Filed Dec. 2, 1919. Serial No. 341,994. 1 Claim. (Cl. 259—134.)



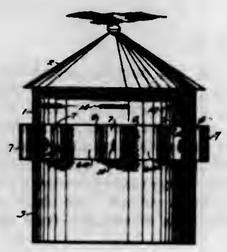
In a machine of the class described, an agitator comprising, in combination with a shaft adapted to run axially through the machine, three hub members adapted to be secured on said shaft, and two blade members, each connected to one of the end hub members by a radial arm and to the center hub member by an oblique arm, the ends of the blade members extending beyond the connection with said oblique arms and overlapping each other in their paths of travel.

1,347,651. TONSILLOTOME. WALTER W. NAUTH, Winona, Minn. Filed Mar. 29, 1919. Serial No. 286,209. 3 Claims. (Cl. 128—309.)



3. In a tonsillotome, in combination, a comparatively long horizotally disposed frame comprising in part a rigid horizontally disposed loop at its outer extremity, and a downwardly extending handle at the opposite end thereof, said loop being adapted to be slipped over the body to be severed, a slidable cutting blade, a slidable crushing blade, both of said blades being slidably supported on the frame adjacent to and slidable over the opening of said loop, and means for operating said crushing blade, said cutting blade overlying the outside of said frame and extending beyond the handle end thereof and being mounted in a manner so as to be individually removable therefrom as and for the purpose set forth.

1,347,652. GUARD-CAGE. SWAN OLSON, Rockford, Ill. Filed Apr. 16, 1920. Serial No. 374,410. 2 Claims. (Cl. 89—36.)

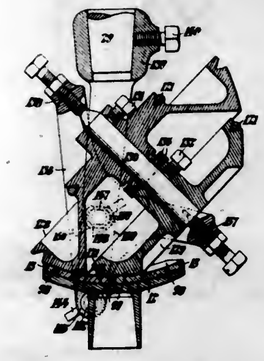


1. In a guard cage, upper and lower sections, spaced insert plates connecting said sections, turrets pivotally inserted between said insert plates and formed with sight-openings, and slide plates arranged in said turrets and adapted for movement over said sight-openings.

1,347,653. MECHANISM FOR MAKING BIFOCAL LENSES. ARTHUR E. PAIGE, Philadelphia, Pa. Original application filed Mar. 4, 1915, Serial No. 12,028. Divided and this application filed June 5, 1915, Serial No. 32,259. Renewed Dec. 12, 1919. Serial No. 344,465. 16 Claims. (Cl. 51—131.)

1. A rotary lap having a perimetral abrading surface extending transversely to its axis of rotation and arcually curved respectively differently concentrically to said axis and transversely thereto; one edge of said surface being nearer the lap axis than the opposite edge.

4. In surfacing mechanism, the combination with a rotary lap having a transversely curved abrading surface and an axial spindle extending obliquely to said surface in rigid relation therewith, and a conical bearing surface at the end of said spindle; of a support movable toward and away from the material to be surfaced; and means detachably connecting said lap with said support, including a member having an axially adjustable conical bearing surface arranged to detachably engage the end of said spindle.



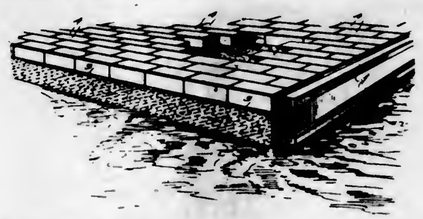
5. A rotary lap having a rigid spindle, an annular abrading surface which is a spherical zone, in concentric relation with said spindle, and an annular abrading surface, in concentric relation with said spindle, curved respectively differently transversely and circumferentially; the chords of the transverse arcs of each of said surfaces being inclined with respect to the axis of said spindle.

6. A rotary surfacing tool having, in concentric relation to a common axis, two distinct and differently curved annular abrading zones, in variable axially spaced relation; one being curved respectively differently transversely and circumferentially; the greatest radial extent of each of said zones, from said axis, being less than the radius of curvature of its abrading surface; all chords of transverse curves of said zones converging toward said axis, in the same general direction.

12. In bifocal lens surfacing mechanism, the combination with a rotary holder for the glass which is to be abraded; of two rotary laps, each having an annular abrading surface arcually curved differently circumferentially and radially; means arranged to present said laps with said abrading surfaces in respective operative relation to the respective lens areas, with only a transverse line of contact between each lap and the lens area which it is to abrade, and with their smaller circumferential edges at the junction line between said lens areas, so that said edges extend over said line from the respective points of contact of said laps with the surfaces to be abraded, and from respectively opposite sides of said line; whereby the edges of the respective lens areas adjoining said line are abraded transversely to said line, so as to sharply define the latter; means supporting said laps, permitting oscillation of their respective axes; means limiting such freedom of oscillation of each lap to a plane which is radial to its axis; means arranged to positively rotate said holder; and means arranged to positively rotate the respective laps, independently of each other.

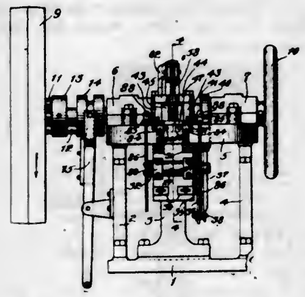
1,347,654. PROCESS OF MAKING MONOLITHIC PAVEMENTS. ALAN JAY PARRISH, Paris, Ill. Filed Aug. 1, 1917. Serial No. 183,907. 2 Claims. (Cl. 94—24.)

1. The herein described process of making monolithic pavements which consists in depositing a layer of plastic concrete, striking off the concrete to a desired shape, adding a thin coating of sand and cement mixed dry to the concrete while the latter is in its plastic condition, placing the bricks on the coating while the latter and



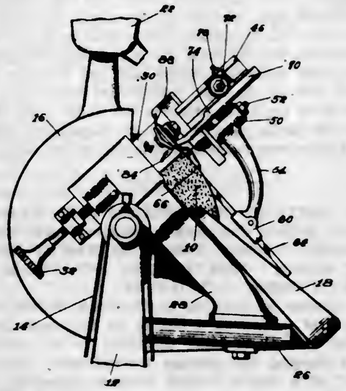
the concrete are in a plastic condition, and filling the space between the bricks or blocks with a cementitious binding material.

1,347,655. LACING-TIP-FORMING MACHINE. GEORGE G. PERKINS, Lynn, Mass. Filed May 11, 1918. Serial No. 233,829. 12 Claims. (Cl. 153—1.5.)



1. A machine for tipping shoe lacings comprising a stationary work support, means for holding a lacing in a stretched condition on said support, means for applying a binder about the lacing so held, and means for severing the lacing and binder between the ends of the latter while the lacing is so held.

1,347,656. GRINDING-MACHINE. FREDERICK H. PERRY, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 22, 1917. Serial No. 143,783. 28 Claims. (Cl. 51—7.)



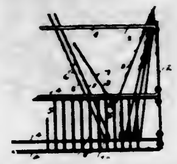
1. In a grinding machine, a grinding element, a movable support, and a plurality of knife holders mounted upon said support constructed and arranged to clamp the knives in grinding position and to be brought by the movement of the support individually into operative relation to the grinding element, said grinding element and knife holders being constructed and arranged for relative traversing movements in directions to grind each blade edge to a predetermined shape.

1,347,657. LEGGING. EMIL PETERS and ANDREW LAMBERT, Chicago, Ill. Filed Mar. 13, 1918. Serial No. 222,236. 1 Claim. (Cl. 36—2.)



In a legging, a body portion comprising an inner fabric and an outer fabric, the latter being a substantially water proof material, the edges of said body portion being overlapped and adapted for sliding adjustment upon each other or for close binding engagement with each other, flexible means criss-crossing said overlapped edges upon both sides of the same for effecting the desired adjustment thereof, binding strips for the overlapped edges of said body portion, a flexible nose terminating said body portion, flexible anchor-shaped stiffening means embedded in said nose, the wings of said anchor-shaped means extending along the sides of said nose and the stem of said means extending along the bridge of said nose, and a strap secured to and depending from said body portion.

1,347,658. FILING DEVICE. WILLIAM S. PROUDFIT, Grand Rapids, Mich. Filed Apr. 7, 1919. Serial No. 287,938. 14 Claims. (Cl. 129—16.)



1. In a device of the character described; a plurality of containers arranged side by side and adapted to be severally raised and lowered, each container comprising a pair of side members swingably connected at its bottom; vertically disposed guides for the bottoms of the containers in their raising and lowering movement; means for releasably holding the containers severally in raised position.

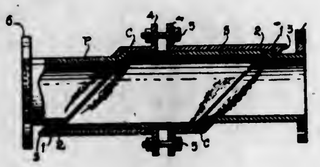
1,347,659. DUMMY CARTRIDGE. ROBERT EDWIN REARDON, Cherrydale, Va. Filed Mar. 13, 1917, Serial No. 154,564. Renewed Jan. 2, 1920. Serial No. 349,092. 1 Claim. (Cl. 124—15.5.)



A dummy cartridge for target practice rods comprising a casing shaped like a cartridge, an end cap, a longi-

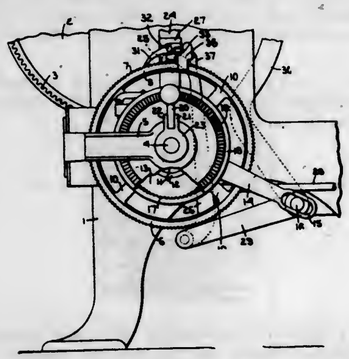
tudinally extending rod, a pin on the rod extending through the cap, a tube surrounding the rod on the interior of the casing, a collar carried by the tube, a spring extending between the collar and the ping on the rod and adapted to retract the rod.

1,347,660. PIPE-COUPLING. JOHN REIBAND, Baltimore, Md. Filed Sept. 6, 1919. Serial No. 322,098. 2 Claims. (Cl. 285—14.)



1. A pipe coupling comprising a pair of pipe lengths having their opposed ends obliquely disposed and defined by outstanding continuous flanges, a sleeve interposed between said ends of the pipe lengths, a collar surrounding each end portion of the sleeve, and means for connecting the opposed ends of the collars, the opposite end portion of each of the collars being obliquely disposed and defined by a continuous flange overlying the flange of the adjacent pipe length.

1,347,661. PAWL-AND-RATCHET MECHANISM. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 13, 1919. Serial No. 270,795. 4 Claims. (Cl. 74—60.)



1. Pawl and ratchet driving mechanism comprising a ratchet having parallel smooth faces adjacent to the end of the ratchet teeth, a pawl actuating arm and means for reciprocating the same, a pawl pivotally mounted upon said actuating arm positioned to engage said ratchet and provided with an extension having pivotally mounted thereon oppositely disposed members having frictional surfaces engaging the smooth faces of said ratchet and resilient means for forcing said frictional surfaces against said smooth faces.

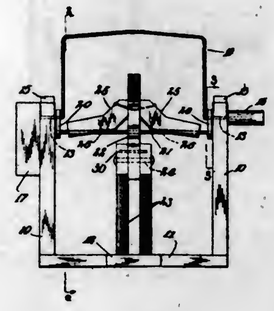
1,347,662. SPARK-PLUG. FRANK ROBINSON, Chicago, Ill. Filed July 15, 1918. Serial No. 245,045. 6 Claims. (Cl. 123—169.)

1. A spark plug embracing a base, an electrode axially disposed therein, an insulating member axially seated within said base and having a chamber therein into which said electrode projects, priming means axially secured within said insulating member, and a second electrode



secured on said priming means within said chamber and overlapping said first electrode to form a spark gap between the adjacent sides of said electrodes.

1,347,663. JUMPING TOY. ANDREW SANDOR, New York, N. Y. Filed Feb. 14, 1920. Serial No. 358,587. 1 Claim. (Cl. 46—40.)

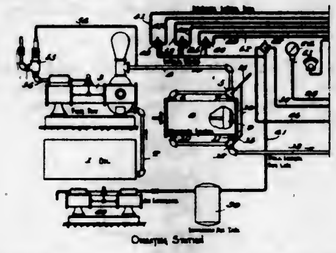


A toy comprising a frame including a base member and standards, a skipping rope element journaled in the upper ends of said standard, a pair of crank arms fixed coaxially to said element and projecting in an opposite direction thereto, a rod connecting the ends of said crank arms, a figure comprising a body suspended on said rods, legs pivotally attached to said body, said legs being so arranged with respect to said body as to cause the feet thereof to engage the said base member as the figure descends and cause the legs to have a folding movement upon the body, and coöperating devices upon the legs and body adapted to prevent dead centering of the said rod and feet with the pivotal axis of the legs, said means including a pin projecting from the body adjacent the upper ends of the legs, said pin being adapted also to engage the legs to limit the folding movement of the latter on the body.

1,347,664. METHOD OF REFINING OIL. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Mar. 30, 1918. Serial No. 225,683. 2 Claims. (Cl. 196—25.)

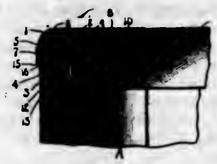
2. The process of cracking hydrocarbon liquids which consist in first measuring a charge so that each charge will be the same in volume relatively to the cracking area, then feeding the charges intermittently into the lower part of a highly heated chamber, exposing them therein to heavy pressure while continuing the heating, and drawing off and condensing any desired portion of each charge from the lower part of the chamber, while retaining the low boiling vapors and permanent gases

during the cracking operation during successive intermittent additions of liquid hydrocarbons, discharging



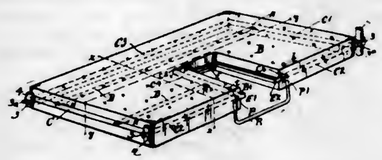
each charge at the end of its cracking operation, and maintaining a portion of the pressure upon the product while cooling the same.

1,347,665. SHEET-METAL CAN. FREDERICK WESTERBECK, St. Louis, Mo. Filed Apr. 30, 1915. Serial No. 24,866. 2 Claims. (Cl. 220—60.)



1. A sheet metal can comprising a body member having its upper portion turned inwardly, downwardly and outwardly to produce a yieldable bead, the metal at the lower inner corner of the bead being curved, and a closure fitted to the inner and outer faces of said bead, said closure being provided with an annular web which extends downwardly from the inner face of the bead and said web being pressed outwardly to produce detents which engage said curved corner of the bead.

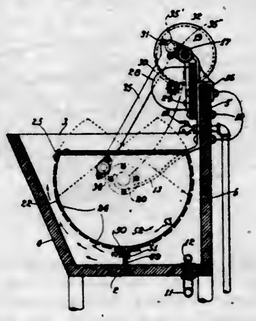
1,347,666. HOSPITAL BED-MATTRESS. GEORGE H. AMEY, Fresno, Calif. Filed Oct. 23, 1919. Serial No. 332,727. 3 Claims. (Cl. 5—13.)



2. In a device of the character described the combination of a mattress attached to a rigid rectangular frame, metal flexible straps extending through the mattress attached to opposite sides of the frame, said mattress having a section removed from one side thereof, a slideway around the sides of the opening where said section was removed, a slide adapted to carry a bed pan slidably fitted on the slideway, and a separate section of mattress adapted to cover said opening slidingly fitted on the slideway, substantially as described.

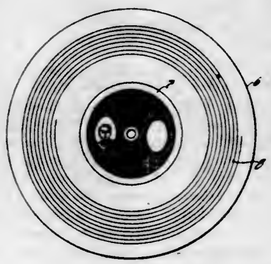
1,347,667. WASHING-MACHINE. HERMAN P. ANDRESEN, Chicago, Ill. Filed Oct. 6, 1919. Serial No. 328,852. 2 Claims. (Cl. 68—21.)

1. A washing machine embodying therein a water container, a clothes container mounted for oscillatory movement therein, a plate arranged on the underside of the clothes container and longitudinally thereof, means hingedly securing the plate to the clothes container whereby said plate can swing toward the clothes container when



the clothes container moves in one direction, and a stop arranged on the clothes container and positioned to limit swinging movement of the plate when the clothes container moves in the opposite direction.

1,347,668. METHOD OF PRODUCING SOUND-RECORDS. JONAS W. AYLSWORTH, deceased, East Orange, N. J., by Adelaide M. Aylsworth and Savings Investment and Trust Company of East Orange, executors, East Orange, N. J., and EDWARD L. AIKEN, East Orange, N. J., assignors, by mesne assignments, to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Original application filed June 19, 1912, Serial No. 704,517. Divided and this application filed Sept. 11, 1918. Serial No. 253,652. 9 Claims. (Cl. 18—48.3.)

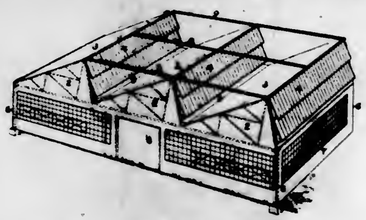


1. The method of making records having a label impression therein which consists in making a master record, making a plate containing a negative or reverse copy of the label impression, placing said plate face downward on said master record or a duplicate thereof, forming a matrix with the said plate secured thereto by electroplating on said record and plate, and impressing said matrix into a plastic record tablet, substantially as set forth.

1,347,669. ROOF STRUCTURE. WALTER F. BALLINGER, Philadelphia, Pa., and CLIFFORD H. SHIVERS, Woodbury, N. J., assignors to Ballinger & Perrott, Philadelphia, Pa., a Firm composed of Walter F. Ballinger and Emile G. Perrott. Filed July 31, 1919. Serial No. 314,526. 4 Claims. (Cl. 108—23.)

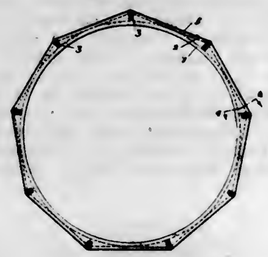
3. An improved roof of saw-tooth construction which comprises a plurality of parallel truss forms providing saw-tooth framing for supporting the roof covering portions and upright sash, the framing for supporting the sash consisting of rectangular open-mesh trussed girders re-

spectively arranged transversely at the high portions of each of the saw-tooth sections in the roof and supporting it intermediate of its ends against sagging, tension chord members extending longitudinally of the roof at its bottom portion for its full length, combined with longitudinal



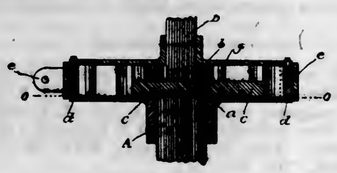
upper compression chord members arranged above the main portion of saw-tooth roof portions and secured to the framing thereof including the upper portions of the transverse open-mesh trussed girders, and supports for the front and rear ends of the roof.

1,347,670. FUSELAGE. WALTER H. BARLING, London, England. Filed Nov. 24, 1919. Serial No. 340,188. 15 Claims. (Cl. 244—30.)



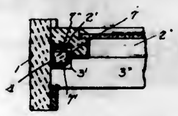
7. In a structure of the character described, the combination with a series of transverse frame members each comprising a base hoop, a series of tangential bars arranged about the periphery of said hoop and having their adjacent ends spaced apart to form recesses, and side members rigidly secured to both said hoop and said bars on both sides thereof, of longitudinal frame members mounted in the recesses between the ends of the tangential bars of the respective transverse frame members, and covering material resting upon and secured to the outer surfaces of said tangential bars and said longitudinal frame members.

1,347,671. PLANETARY ECCENTRIC SYSTEM OF GEARING. WALTER BELSHAW, Everett, Wash., assignor, by direct and mesne assignments, of four-fifths to Belshaw Engine Co., Everett, Wash., a Corporation of Washington. Filed Aug. 12, 1915. Serial No. 45,223. 4 Claims. (Cl. 74—35.)



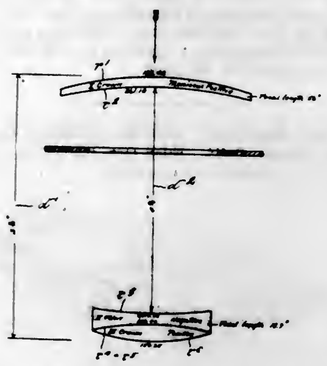
1. The combination of a member having an eccentric pin, a drum having internal teeth, a gear journaled on the eccentric pin and provided with external teeth meshing with the internal teeth of the drum and with internal teeth of less length than the external teeth, a pinion having teeth of the same length as the internal teeth of the gear and meshing therewith, a second member carrying the pinion, and means for braking the drum.

1,347,672. WEATHER-STRIPPING FOR WINDOWS. MILLARD WHITE BEST, Wentworth, Ontario, Canada. Filed Apr. 18, 1918. Serial No. 228,366. 1 Claim. (Cl. 20—69.)



In a weather strip, the combination with the parting strip 4 of the window, and the upper and lower sashes located on each side thereof and adapted to slide parallel thereto, the sashes each having a longitudinal notch in their adjacent faces, said notches constituting a longitudinal recessed portion when placed in the operative position in the window frame, of greater width and depth than the parting strip 4, and into which the said parting strip extends, of an integrally formed strip of resilient metal 7 secured to the front of the parting strip 4 and having its free sides flared outwardly unconfined from the point of connection with the parting strip 4 to points clear of the corners thereof, said free ends then being bent backwardly to present convex portions against the respective walls of the notches in the sashes.

1,347,673. PHOTOGRAPHIC OBJECTIVE. LLOYD C. BISHOP, South Bend, Ind. Filed Oct. 16, 1919. Serial No. 331,218. 4 Claims. (Cl. 88—57.)



2. A photographic objective comprising a chromatically fully corrected back lens of relatively short focal length and an uncorrected front lens whose focal length is from 3 to 10 times larger than that of the back lens.

1,347,674. DRIVE-BELT FOR PULLEYS. AUGUST BLOESINGER, Akron, and FRANK D. HOWE, Cuyahoga Falls, Ohio, assignors, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Feb. 1, 1918. Serial No. 214,994. 10 Claims. (Cl. 74—21.)

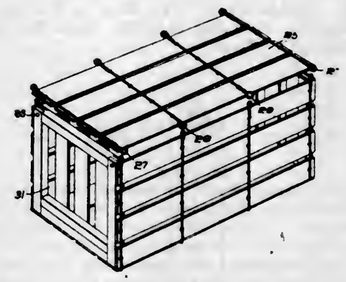
2. Driving means comprising a grooved pulley, a grooved driving belt therefor, and a tension spring inserted in said driving belt groove to increase the friction of said driving belt with respect to the pulley.

9. A driving means for a grooved pulley comprising a belt adapted to engage in the groove of a pulley, and elas-



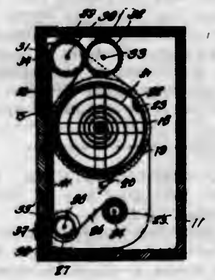
tic tension means engaging said belt to conform the belt to the pulley groove and thereby increase the friction between the belt and pulley.

1,347,675. BOX. CHARLES H. BOMBARDIE, South Bend, Ind., and PAUL F. WEGNER, Chicago, Ill., assignors to Wirebounds Patents Company, Kittery, Me., a Corporation of Maine. Filed Jan. 9, 1917. Serial No. 141,472. 11 Claims. (Cl. 217—43.)



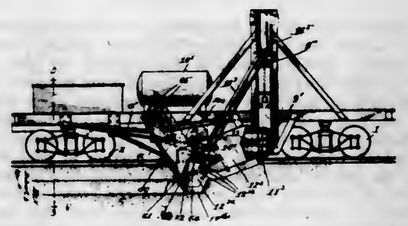
1. A wirebound box comprising separate sections of side material and cleats for the sides and bottom of the box connected together in foldable relationship by binding wires secured to cleats of said sections; and separable end sections having transverse cleats secured thereto detachably engaging said cleats of the side sections in a manner to prevent inward or outward displacement of said end sections and hold the parts in box form independent of a lid.

1,347,676. SPEED-RECORDER. HARRY A. BOWDISH, Eagle Pass, Tex. Filed Jan. 4, 1918. Serial No. 210,324. 2 Claims. (Cl. 234—30.)



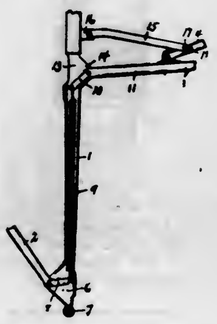
2. An instrument of the class described comprising a casing divided into compartments, one of which is equipped with an outwardly opening door, a frame pivoted in said door-equipped compartment to swing outwardly on the opening of the door, a spring controlled drum mounted in said frame, a pair of contacting rollers positioned above said drum, one being carried by the frame and the other by the casing, a paper carrying roll mounted below said drum in said frame, a paper guide mounted in said frame, the paper fed from said roller being secured to said drum and passed around said guide and between the first-mentioned rollers, and means carried by said door for holding said frame in operative position, and the first-mentioned rollers contacting.

1,347,677. RAILROAD-WAY CONSTRUCTION AND MAINTENANCE CAR. ROBERT E. BRESSLER, Hammond, Ind., assignor to O. F. Jordan Company, East Chicago, Ind., a Corporation of Indiana. Filed Dec. 30, 1918. Serial No. 269,016. 8 Claims. (Cl. 37—58.)



1. The improvements herein described comprising a car, in combination with a side wing having its inner end pivoted thereto, an outer wing horizontally and vertically pivoted to the outer end of the side wing, means for locking the outer wing against movement on its horizontal pivot, said outer wing in operative position being at an angle to the face of the side wing and said operating means being formed to fold both the side wing and the outer wing into substantially parallel relation to the side of the car.

1,347,678. BOW-SOCKET. DONALD A. BREWER, Cortland, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a Corporation of New York. Filed Feb. 2, 1917. Serial No. 146,134. 8 Claims. (Cl. 296—116.)



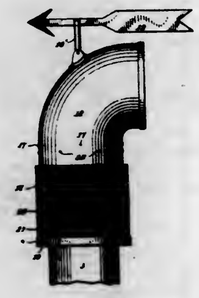
8. In a vehicle top, a hollow standard adapted to be pivotally secured to a vehicle body, an outrigger bow arm, a link pivotally connected respectively to said outrigger bow arm and said standard, and having a free end extended to the rear of its pivot, and a spring carried within the standard and connected directly to said free end of the link.

1,347,679. VEHICLE-TIRE. EGBERT B. BROWN, Los Angeles, Calif., assignor to O. W. Fort and H. R. Taylor, Los Angeles, Calif. Filed Oct. 25, 1917, Serial No. 198,431. Renewed June 16, 1920. Serial No. 389,463. 1 Claim. (Cl. 152—10.)



A vehicle tire of the character referred to consisting of an endless tire body having therein an endless, closed air chamber, and an inflating tube through the body of said tire for filling said air chamber, said air chamber being formed in said body without a separate inner tube, said tire body having formed integrally therewith attaching beads around its inner periphery, said air chamber being spaced from the rim engaging portion of said tire body, the size of said air chamber in diameter, in cross section of said tire body, relative to the cross sectional diameter of said tire body, being such that the walls formed by said body at opposite sides of said air chamber are sufficiently heavy to withstand air pressure within said chamber without outside rims for embracing the opposite sides of said tire, substantially as shown.

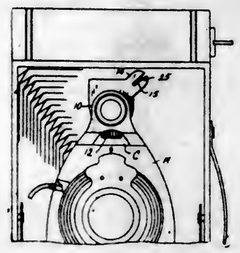
1,347,680. SPARK-ARRESTER. ROBERT BROWN, Montrose, Colo. Filed May 24, 1920. Serial No. 383,803. 5 Claims. (Cl. 183—40.)



1. The combination with a chimney provided with a rotatable cowl and a cinder receptacle beneath the same with outlet openings in the cinder receptacle, of means carried by the cowl and movable therewith for shifting the cinders to the receptacle openings.

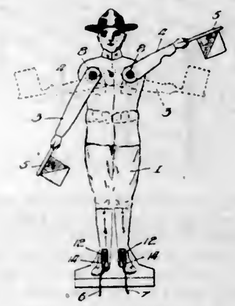
1,347,681. MASKING ATTACHMENT FOR PHOTOGRAPHIC FINDERS. GUY R. CALEY, Silesia, Mont. Filed July 16, 1919. Serial No. 311,214. 3 Claims. (Cl. 88—15.)

1. A masking attachment for the view finders of cameras comprising a front plate having an aperture for the finder lens and having an extension diagonal to the long axis of the front plate, the extension being diagonally slotted, said front plate having means whereby it may be held from rotation over the finder, a cap detachably engageable with the top of the finder and having an aperture in the top of the cap, and a masking plate disposed beneath the cap and having a rectangular aperture, the masking plate being rotatable within the cap through a



quarter circle and having a diagonally extending arm engageable in the slot of the front plate whereby the masking plate shall be rotated through a quarter circle as the finder is rotated through a quarter circle relative to the front plate.

1,347,682. SEMAPHORE TOY. ELSA A. CAZIARC, Fort Sheridan, Ill. Filed July 11, 1918. Serial No. 244,454. 3 Claims. (Cl. 46—40.)

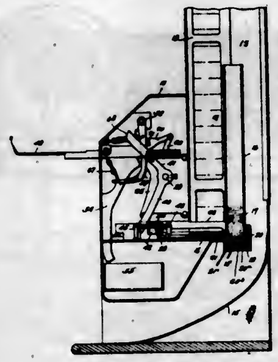


1. A device of the character described, comprising a figure having flag-carrying arms hinged to swing in imitation of a person signaling in accordance with the two arm semaphore system, springs tending to move the arms in one direction, two sets of pulleys near the bottom of said figure arranged in pairs, one at the rear and the other at the front of the figure, and a cable extending from each arm down through said figure in position to permit it to be passed over either of the pulleys of the corresponding pair and thus permit the arms to be manipulated either from the front side of the figure or from in rear of the figure.

1,347,683. SLOT VENDING-MACHINE. SALVADOR CLAPERS, Baltimore, Md. Filed May 22, 1919. Serial No. 298,951. 7 Claims. (Cl. 194—63.)

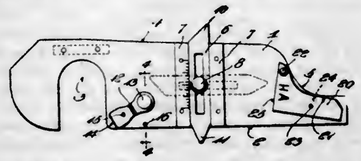
1. In a coin-controlled vending machine, an article ejector, ejector operating means, a detent for locking the ejector operating means, a coin-chute, means for delivering a coin into the chute, a pivoted member in the chute and having an opening, means carried by said member for operating the detent to release the ejector operating means,

means in the chute for supporting a coin over the opening in the pivoted member, and means controlled by the afore-



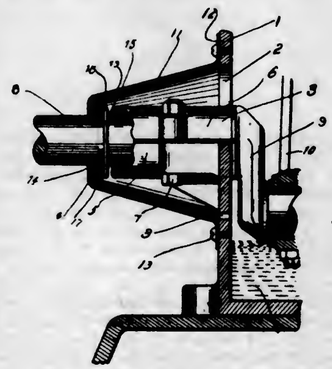
said coin-delivery means for pushing the coin against the pivoted member for swinging the same to operate the detent.

1,347,684. LOCOMOTIVE AND CAR WHEEL GAGE. FRANK CURRAN, Susquehanna, Pa. Filed Apr. 10, 1919. Serial No. 289,022. 5 Claims. (Cl. 33—203.)



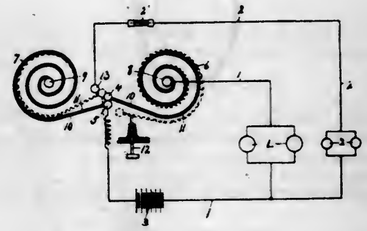
1. In a locomotive and car wheel gage, a plate having in one edge a notch of a width insufficient to fully receive a wheel flange of prescribed width which is not dangerously worn, and an indicator mounted on said plate adjacent said notch and projectable to a single operative position with its outer end spaced from said plate edge a predetermined distance, said indicator being adapted to strike the wheel tread if the flange is worn to a condemning degree at a prescribed distance from the tread.

1,347,685. SPLASH LUBRICATING SYSTEM. EVERETT B. CUSHMAN, Topeka, Kans. Filed May 21, 1919. Serial No. 298,634. 6 Claims. (Cl. 184—13.)



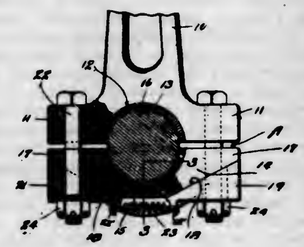
5. In combination, a crank case having a shaft opening and a drain opening below the shaft opening, a frusto-conical housing detachably secured to the crank case, surrounding both openings at its base and closed at its free end except for a shaft opening, a crank shaft projecting through the crank case opening and through said opening in the housing, a collar on the shaft within the housing, a packing ring on the shaft between the collar and the end of the housing, and a retainer cup held by the collar and partially surrounding the packing ring.

1,347,686. THERMO-ELECTRIC SWITCH. ALBERT E. DOMAN, Elbridge, N. Y., assignor to Dyneto Electric Corporation, Syracuse, N. Y., a Corporation of New York. Filed Aug. 2, 1918. Serial No. 247,918. 5 Claims. (Cl. 200—122.)



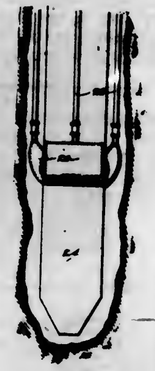
1. A thermo electric switch comprising in combination with an electric circuit, coöperative contacts in said circuit a thermostatic support for one of said contacts connected in the circuit, and a separate thermostatic support for the other contact external to said circuit, each support being arranged to oppose the movement of the other support under like temperatures and to cause the separation of the contacts when the temperature of the support in the circuit greatly exceeds that of the external support.

1,347,687. PISTON-ROD JOURNAL-BEARING. WILLIAM M. ELLIS and ELMER E. SHERMAN, Patoka, Ill. Filed July 12, 1919. Serial No. 310,330. 2 Claims. (Cl. 64—55.)



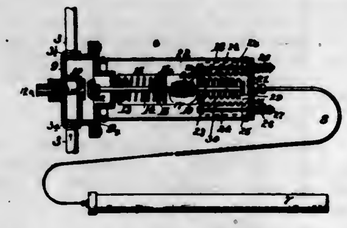
1. The combination with a piston rod, of a cap, there being a journal bearing formed between said piston rod and cap, the undersides of the end portions of said cap being provided with inclined faces, wedge blocks bearing against said inclined faces, a retractile spring connected to said wedge blocks for drawing the same toward each other, a bolt passing through parts of the piston rod, said caps, and said wedge blocks, and a nut on the bolt and bearing against the wedge blocks.

1,347,688. METHOD AND APPARATUS FOR SINKING PILING. ELMER FORREST HEYNE, Lincoln, Nebr. Filed July 3, 1918. Serial No. 243,188. 7 Claims. (Cl. 61—80.)



1. The improved method of aiding the sinking of piling which consists in scraping the sides of the piling and discharging water directly against the surface of the piling from points beyond the sides of the piling as described.

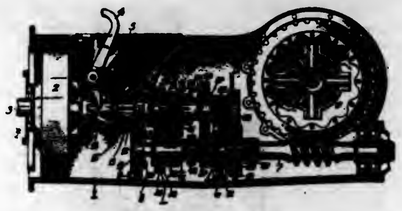
1,347,689. THERMOSTATIC CONTROL DEVICE. JAMES LOGAN FITTS, Pensauken township, Camden county, N. J., assignor to Warren Webster & Company, a Corporation of New Jersey. Filed Oct. 26, 1916. Serial No. 127,780. 16 Claims. (Cl. 236—99.)



5. In a device of the character stated, the combination of a liquid-tight thermostatic vessel, a pressure motor comprising a single liquid-tight chamber having outer and inner concentric expansible casing members normally independently expansible in opposite directions, spring means for preventing the expansibility of the outer casing alone until a predetermined pressure is exceeded, movable means actuated by the inner casing only, means to resist the movement of the movable means after a given movement while permitting the expansion of the expansible casing members, and a tubular connection between the interior of the thermostatic vessel and chamber of the motor between the concentric members, said vessel, chamber and tubular connection full of an expansible liquid, whereby when a full collapsing movement of the inner casing is had an expansion movement thereof is provided by expansion of the outer casing.

1,347,690. TRANSMISSION MECHANISM FOR TRACTORS. HENRY FORD, Dearborn, Mich. Filed July 27, 1918. Serial No. 247,022. 4 Claims. (Cl. 74—58.)

1. The combination of a transmission housing, a worm shaft therein and parallel with the bottom of said housing, a clutch in said housing out of alinement with said worm shaft, and a transmission mechanism between said clutch and said worm shaft, said transmission mechanism including a plate detachably mounted in said housing between said clutch and said worm shaft and adapted when removed to carry with it a portion of said transmission mechanism.

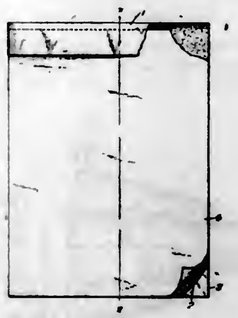


1,347,691. WRENCH. GEORGE FORTON, Detroit, Mich. Filed Jan. 13, 1920. Serial No. 351,118. 9 Claims. (Cl. 81—60.)



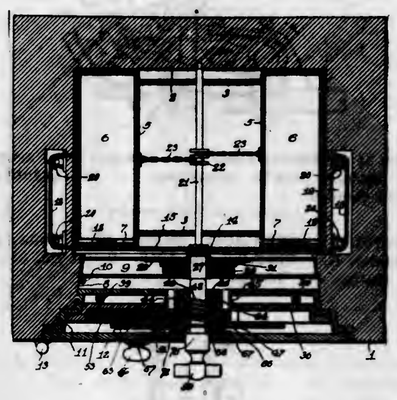
1. A wrench comprising a handle member having a bifurcated end formed with alined openings and having a configuration to produce a ratchet member space, said member carrying a pawl operative within the space, a ratchet member having an opening adapted to aline with the handle member openings when in operative position, and a work-engaging member having a shank insertible into the alined openings, said shank carrying a projecting lug, said ratchet and handle members having recesses complemental to said lug to permit positioning of the lug within the ratchet recess.

1,347,692. HOLDER FOR CARBON-SHEETS. WILLARD STANLEY FREEMAN, New York, N. Y. Filed Dec. 19, 1919. Serial No. 346,099. 2 Claims. (Cl. 282—29.)



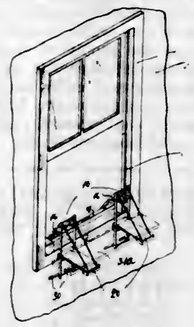
1. In combination with a carbon sheet, of a cap into which one end of the sheet is fitted, said end of the sheet being secured to that wall of the cap which is adjacent to the carbon face of the sheet and spaced apart from the free edge of the said wall to permit a sheet of letter paper to be arranged on each face of the carbon sheet, with the end of the letter paper sheet inserted between the carbon sheet and the adjacent wall of the cap whereby the cap serves as a guide for the placing of the sheets in proper relation with respect to the carbon.

1,347,693. SAFE. MARCUS GARFINKEL, Detroit, Mich. Filed Feb. 18, 1920. Serial No. 358,540. 9 Claims. (Cl. 109—1.)



1. A safe comprising a body having a chamber therein, shiftable compartments in the chamber of said safe body and movable to and from each other, a door for the safe, and means carried by said door adapted for shifting said compartments, said means including a reciprocable and rotatable pin for moving said compartments away from each other and a spring for moving said compartments toward each other.

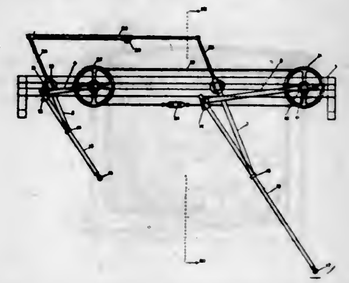
1,347,694. WINDOW-FRAME SUPPORT. EDWARD GELBKE, Jersey City, N. J. Filed Feb. 17, 1920. Serial No. 359,291. 2 Claims. (Cl. 304—24.)



1. A device of the class described comprising vertical supporting members, a plurality of horizontal rods secured between said members, a platform rotatably mounted upon one of said rods, cables attached to the uppermost of said rods and to the ends of said platform, and means for attaching the device to the wall of a building.

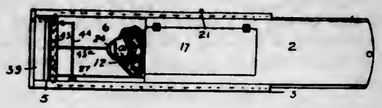
1,347,695. PANTOGRAPH. GEORGE GILLESPIE, West View, Pa. Filed Nov. 18, 1919. Serial No. 338,969. 4 Claims. (Cl. 33—25.)

1. A pantograph including in its structure two pairs of rotary shafts and a stylus associated with each pair, mechanical connection between each stylus and the two shafts of one of the said pairs, whereby shaft rotation is a proportionate expression of stylus movement resolved into two angularly disposed directions, and mechanical



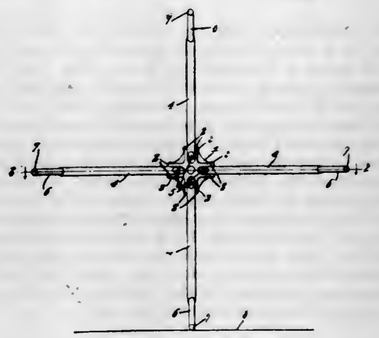
rotation-imparting connection between each shaft and the corresponding shaft of the other pair, substantially as described.

1,347,696. TOY. IVAN GRGIC, Conway, Pa. Filed Sept. 18, 1919. Serial No. 324,370. 1 Claim. (Cl. 46—40.)



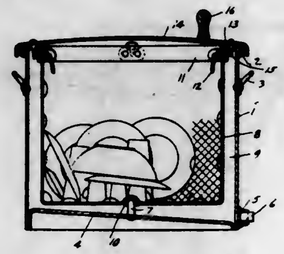
A figure toy comprising a pair of pivoted spring controlled miniature figures representing characters, means for normally maintaining said figures simultaneously in a lowered position, means whereby one of said figures is projected upwardly in advance of the other, means whereby the other figure is projected upwardly simultaneously with the lowering of the first mentioned figure, a spring controlled shiftable element normally in a lowered position, and means connected to the second mentioned figure for releasing said element to permit of the element being projected upwardly.

1,347,697. REEL. WILLIAM F. HARBAUGH, Lakota, N. D. Filed Oct. 14, 1919. Serial No. 330,654. 2 Claims. (Cl. 242—77.)



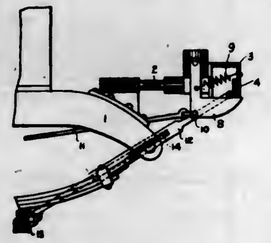
1. In a device of the class described, a hub; arms; means for pivoting the arms intermediate their ends to the hub for lateral swinging movement with respect to the hub and having wire-receiving elements at their outer ends; and removable securing devices passing through the inner ends of the arms and the hub.

1,347,698. DISH-WASHING MACHINE. MARGARET HIPPS, Santa Barbara, Calif. Filed Aug. 29, 1918. Serial No. 251,970. 1 Claim. (Cl. 141—9.)



A dish washer comprising a tank having an open upper end, a basket in said tank spaced from the wall thereof, a central bearing at the bottom of said basket for supporting the entire weight of the latter, ears projecting outwardly from the upper edge of said basket with their outer ends in sliding contact with the tank wall, a cover having a depending flange loosely surrounding the upper end of said tank wall, a handle for turning said cover, and teeth depending from said cover and engaging said ears to turn the basket; the contact of said ears with the casing wall serving to prevent tilting of the basket whenever the cover is removed, thereby facilitating engagement of said teeth with the ears when the cover is to be replaced.

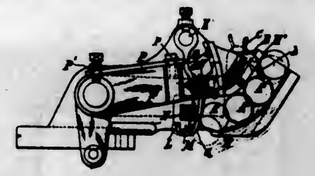
1,347,699. COMBINED BUMPER AND FENDER FOR AUTOMOBILES. SAMUEL EDWIN HORNE, Toronto, Ontario, Canada. Filed Aug. 22, 1919. Serial No. 319,210. 1 Claim. (Cl. 293—41.)



The combination with the forward end of a vehicle frame, of a pair of forwardly directed brackets secured to said frame, a resiliently projected casing constituting a bumper supported upon said brackets and having the lower portion thereof open, a foldable fender secured in said casing and arranged to be completely contained therein when in folded form, a pair of substantially L-shaped patches having the vertical arms thereof pivoted to the brackets and the horizontal arms thereof normally disposed beneath the open portion of the casing to support the folded fender therein, a connecting rod extending between said catches below the pivots thereof, springs engaged with said catches and normally holding the same in fender supporting position, and means for swinging said catches to fender releasing position including a control rod attached to said connecting rod.

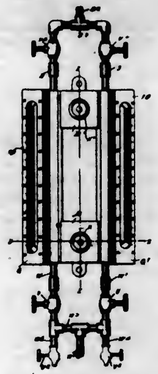
1,347,700. WEFT-REPLENISHING MECHANISM FOR LOOMS. FRIEDRICH ALBERT KUENY, Mülhausen, Germany. Filed Apr. 24, 1916. Serial No. 93,165. 8 Claims. (Cl. 139—85.)

1. In a weft replenishing mechanism, the combination with a magazine, a hammer, and a yielding bobbin support at the end of the magazine; of movable means cooperating with the support to exert pressure on the head



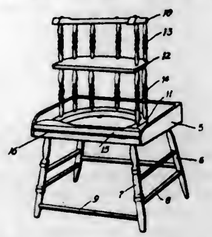
of one of the bobbins about to be transferred, to maintain said bobbins parallel independent of the quantity of thread thereon.

1,347,701. WATER-GAGE. DANIEL M. MCCOOK, Manchester, Ga. Filed Oct. 20, 1919. Serial No. 331,867. 1 Claim. (Cl. 73—54.)



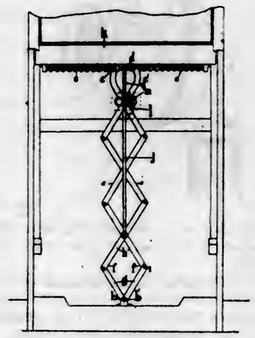
In combination, a pair of gages, each comprising a body having a chamber formed therein and a transparent plate closing said chamber, pipes connected to said chambers for supplying steam and water thereto, valves in said pipes for controlling the supply of steam and water to one of the chambers independently of the other, and bridge pieces connecting said gages having ducts formed therein for effecting communication between said chambers at the opposite ends thereof, and cocks in said bridge pieces for controlling said ducts.

1,347,702. COMBINATION CHILD'S CHAIR. GEORGE W. MARTIN, Philadelphia, N. Y. Filed Oct. 25, 1919. Serial No. 333,334. 1 Claim. (Cl. 155—39.)



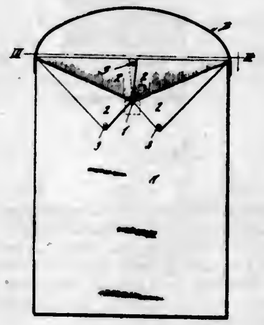
In an article of furniture, a table, a chair comprising an upper and a lower arcuate member, an intermediate seat member, vertical posts connecting the arcuate members and seat member, a solid bar rigidly connected with the forward portions of one of the arcuate members, the solid bar being of a length equal to the length of a table, means for connecting the solid bar to the table to permit movement of the chair and bar with relation to the table and said table having end and side members.

1,347,703. BALANCED WINDOW-SASH. EMILE MASSIS, London, England. Filed July 16, 1919. Serial No. 311,291. 5 Claims. (Cl. 268—4.)



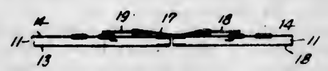
1. A balanced window sash, comprising a lazy tongs device, a fixed pivot for the lower end of said lazy tongs, sliders connected to the upper extremities of said lazy tongs, a guide tube secured to the bottom of said sash, said sliders reciprocable in said guide tube, and springs inclosed in said tube acting upon said sliders.

1,347,704. COTTON-PICKER'S SACK. ADOLPH E. MEYER, Webster Groves, Mo., assignor to Textile Products Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 1, 1919. Serial No. 341,761. 1 Claim. (Cl. 150—2.)



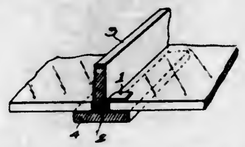
A reversible cotton picker's sack having two walls each divided at its upper end intermediate of its longitudinal edges, providing flaps at opposite sides of the point at which the wall is divided, said flaps being provided with means whereby the flaps carried by either wall may be connected adjacent the line of division in the wall, and a suspension member secured to said longitudinal edges at the upper end of the sack.

1,347,705. FASTENING DEVICE. JACK MILLER and JOHN MILLER, Montreal, Quebec, Canada. Filed July 1, 1919. Serial No. 308,015. 5 Claims. (Cl. 2—143.)



1. A garment band presenting outer and inner plies spaced apart to provide an intervening pocket, the inner ply of the band being apertured adjacent each end thereof, and a fastening device for the ends of the band having hooked ends adapted to be inserted through the openings in the band ends and concealed from view in the pocket by the outer ply of the band.

1,347,706. GLASS-PANE HOLDER. ANTIME MOTTEAU, Buenos Aires, Argentina. Filed Feb. 14, 1919. Serial No. 276,984. 2 Claims. (Cl. 189—77.)



1. Means for holding glass panes in frames, comprising a bar of angle section embodying a pair of longitudinal webs arranged at right angles to each other, one web providing support for a pair of panes at opposite sides of the other web, and the latter web being provided with a transverse opening; and a metal strap having its central portion mounted in said opening and its two end portions first bent vertically against the opposite side faces of the second-named web directly adjacent the opening and then bent laterally in opposite directions away from said second-named web directly against the outer faces of the panes so as to lie flat thereagainst.

1,347,707. HAIRPIN. CHARLES R. NALLE, Fort Worth, Tex. Filed Sept. 11, 1919. Serial No. 323,145. 2 Claims. (Cl. 132—22.)

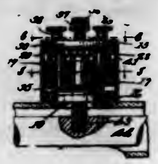


2. A hair pin comprising, a U-shaped member having oppositely arranged tubular legs which are open at their forward ends, and provided with apertures at their rear ends, and a yoke-shaped member mounted to slide within the tubular legs and carrying resilient fingers at their forward ends which are integral therewith, said resilient fingers being flattened and substantially U-shaped when projected in advance of the forward open ends of the tubular legs, said fingers being adapted to be retracted within the tubular legs and to permit of the separation of the U-shaped member and the yoke-shaped member.

1,347,708. COMBINATION-LOCK. HARRY W. PONTING and ARTHUR J. WATLING, Junction City, Kans. Filed May 26, 1917. Serial No. 171,247. 2 Claims. (Cl. 70—53.)

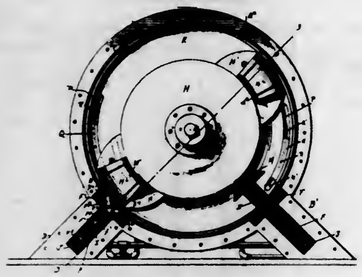
1. In a lock for automobiles, motor cycles and the like, a face plate, a back plate, a casing associated with the

face plate and back plate to form a housing, posts interposed between the face plate and the back plate, said back plate having recesses forming bearings and the face plate having apertures, dial shafts rotatable in the recesses and apertures, said dial shafts having longitudinally extending slots, shoulders on the said shafts, springs interposed between the shoulders and the face plate, said springs



each comprising an apertured member, lying on a shoulder of a shaft and laterally curved with its edge engaging the plate, a locking bolt slidable in the casing, means for holding the locking bolt against rotation, pins radiating from the locking bolt and adapted to oscillate in the slots of the shafts, shoulders on the upper ends of the shoulders near the lower ends of the shafts for engaging the pins.

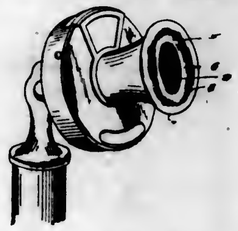
1,347,709. ROTARY ENGINE. JOHN G. PORTER, Weaverville, Calif. Filed July 11, 1919. Serial No. 310,045. 9 Claims. (Cl. 121—77.)



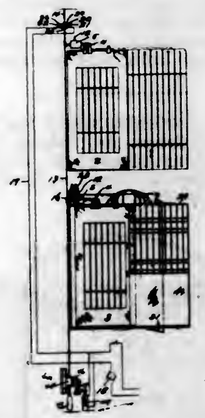
1. A rotary engine including a stator comprising an annular motive fluid chamber, circular in cross section, and abutment pockets or recesses radiating from the periphery thereof and communicating with said annular chamber, a rotor rotatably mounted within said stator and comprising a disk and radially disposed piston heads fitting within said annular chamber, cam plates projecting from the ends of said piston heads valved abutments slidably mounted in the radial pockets of the stator, motive fluid pressure inlet and outlet supply means communicating with said annular chamber, the inlet means also communicating with the abutment pockets behind the valved abutments and forcing them into the annular chamber, and, means carried by said abutments to open the valve therein upon impact with a piston head, whereby pressure is released behind the abutments and through the same into the annular chamber between the abutments, and to permit the abutments to recede into their pockets.

1,347,710. SANITARY TELEPHONE ATTACHMENT. ELLIS M. POTTER, New York, N. Y. Filed July 28, 1919. Serial No. 313,709. 1 Claim. (Cl. 179—185.)

As a new article of manufacture, a disinfecting cap for telephone transmitter mouthpieces, comprising a disk of thin sheet paper having its peripheral edge curled backwardly and inwardly to form a peripheral bead adapted to snugly engage the periphery of the mouthpiece, said disk having a central opening and an antiseptically treated fabric covering said opening, that portion of the disk between said openings and said rim being depressed to concave shape when not in use, whereby when the peripheral bead is forced over the mouthpiece, the depressed portion will stretch and cause the disk to be tightly clamped in place.



1,347,711. ELEVATOR-CONTROL SYSTEM. HORATIO C. RANDALL, San Francisco, Calif.; Annie Louise Randall executrix of said Horatio C. Randall, deceased. Filed Mar. 20, 1919. Serial No. 283,852. 13 Claims. (Cl. 187—29.)

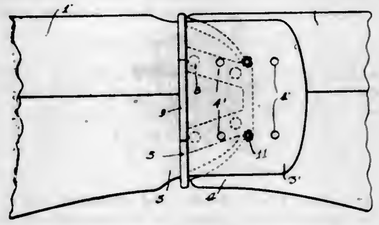


1. The combination with an elevator shaft having a plurality of doors, of a car in said shaft, a motor for moving the car, a circuit for said motor, a switch in said circuit, means arranged at each door for locking the door in the closed position, and means connecting all of said locks with said switch whereby the unlocking of any door opens the switch.

3. The combination with an elevator shaft having a plurality of doors, of a car in said shaft, a motor for moving the car, a circuit for said motor, a switch in said circuit, means arranged at each door for locking the door in the closed position, a vertically movable wire connected to said switch and to said locking means, movement of the wire in one direction serving to open the switch and in the other direction to close the switch, unlocking the door serving to move the wire in the first direction and locking the door serving to move the wire in the second direction.

1,347,712. ADJUSTABLE COLLAR. JOHN L. REAM, Axtell, Kans. Filed Aug. 8, 1919. Serial No. 316,151 1 Claim. (Cl. 54—21.)

In an adjustable collar, opposed padded sections, the lower end of one of said sections being formed into an apertured tongue, a buckle secured to the opposite collar section, said buckle including a body portion, a loop extending upwardly and at right angles to the body portion, lugs formed on the body portion, said lugs extending upwardly therefrom and spaced from the loop, said lugs being in parallel relation with the loop, the tongue adapted to extend through the loop and engage over the lugs, for holding the tongue within the loop, and the upper

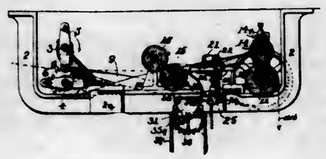


ends of the lugs terminating at points above the plane of the lower edge of the loop to normally prevent displacement of the tongue.

1,347,713. PROCESS OF DRY DISTILLATION. ERIK LUDVIG RINMAN, Djursholm, Sweden. Filed Nov. 6, 1918. Serial No. 261,319. 1 Claim. (Cl. 203—6.)

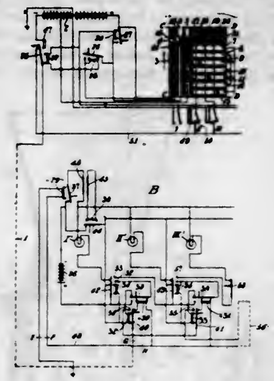
The process of dry distillation of the waste liquors of the cellulose manufacture, as well as other similar waste liquors, which consists in dry distilling said waste liquors with strong bases in the presence of steam at a temperature maintained below 200° C. until the water in the mass has substantially distilled off, afterward maintaining the temperature between 200° C. and 300° C. until methyl alcohol has been formed and substantially distilled off, and finally maintaining the temperature between 300° C. and 500° C. as long as acetone is formed and distils off.

1,347,714. CLOTH OPENER, SPREADER, AND GUIDER. WILLIAM S. ROWLEY, Palmyra, N. J., assignor to H. W. Butterworth & Sons Company, a Corporation of Pennsylvania. Filed Jan. 28, 1918. Serial No. 214,120. 4 Claims. (Cl. 26—18.)



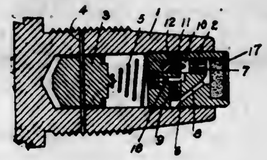
3. In a machine of the character stated, the combination of the scroll rolls and a pair of draw rolls for gripping and feeding the cloth under pressure, with two guider devices arranged between the said scroll and draw rolls and separated a distance substantially equal to the width of the fabric to be treated, said guiders comprising independent pairs of rolls having their axes respectively arranged at an angle to the axes of the scroll and draw rolls and between which the selvages of the fabric respectively travel, independent means for causing the said pairs of guider rolls to press upon the cloth and release it alternately said means arranged for being controlled as to time of action by the selvages of the fabric, transverse guiding means arranged parallel to the scroll rolls, separate carriages for respectively supporting the guider devices and adjustably supported upon said guiding means whereby the guider devices may be adjusted parallel to the axes of the scroll rolls, mechanical adjusting means for simultaneously adjusting the carriages in opposite directions upon the guiding means, and downwardly extending hand operable means for operating the mechanical adjusting means.

1,347,715. SELECTIVE CONTROL SYSTEM. AXEL UNO SÄRNMARK, Stockholm, Sweden. Filed Sept. 9, 1916. Serial No. 119,196. 7 Claims. (Cl. 177—353.)



1. In a selective control system, the combination of means at the sending station for sending to the receiving station positive as well as negative pulsations in variable sequence and number, an electrical connection between the sending station and the receiving station, receiving apparatus at the receiving station, circuits controlling the said receiving apparatus, relays at the reconnection of different receiving apparatus according to ceiving station at least one of said relays being polarized and adapted to be actuated by pulsations of one polarity said relays controlling the said circuits for selective the number of pulsations of the polarity of said polarized relay, a source of current at the receiving station, and at least one polarized relay at the said station adapted to be actuated by pulsations of the other polarity and controlling the said source of current so as to connect the same to the receiving apparatus selected by the first-named relay, substantially as and for the purpose set forth.

1,347,716. SELECTIVELY-ACTING FUSE. JOHN B. SEMPLE, Sewickley, Pa. Filed Oct. 16, 1919. Serial No. 331,087. 1 Claim. (Cl. 102—39.)

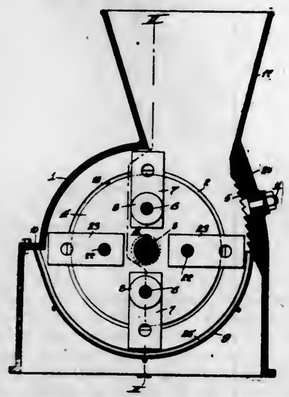


A selectively acting fuse for a projectile including a block in which are formed two paths of ignition transmission from percussion cap to burster charge, one of said paths being a quick-action and the other a delay-action path, a rigid imperforate plug, under all lesser strains immovable and aside from either path of ignition transmission, but under the strain of impact upon heavy armor movable within the block to a position of closure of said quick-action ignition path, substantially as described.

1,347,717. HAMMER-MOUNTING FOR PULVERIZERS AND THE LIKE. HARRY J. SHELTON, St. Louis, Mo. Filed Oct. 31, 1917. Serial No. 199,595. 1 Claim. (Cl. 83—11.)

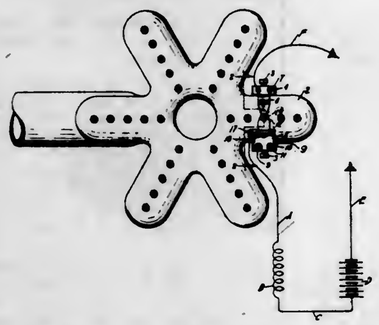
A hammer mounting for a pulverizer comprising a main shaft, a pair of spaced apart hammer shaft supporting members rigidly secured to said main shaft, each of said supporting members having a pair of diametrically op-

posing bosses formed integral therewith, said supporting members being arranged on said main shaft so as to have their respective pairs of bosses in horizontal alinement, a hammer shaft mounted in each pair of alining bosses of said supporting members, a plurality of spaced apart hammers loosely mounted on said shafts between said supporting members, each of said bosses of each supporting member abutting an adjacent hammer, a second pair of ham-



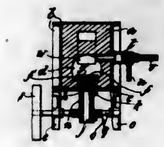
mershafts carried by said supporting members having spaced apart hammers mounted thereon, said bosses of said supporting members each being of a depth equal to the thickness of each of said washers, and providing means for arranging the hammers of said first mentioned hammer shafts in staggered relation to the hammers of said second mentioned hammer shafts and a washer the approximate thickness of each of said hammers, mounted on said hammer shafts between each of said hammers.

1,347,718. IGNITING DEVICE. CARL H. SHUFORD, Dallas, Tex. Filed Feb. 7, 1919. Serial No. 275,508. 2 Claims. (Cl. 175—115.)



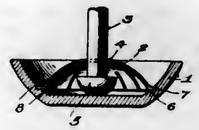
1. In a device of the character described, the combination with a tubular burner provided upon its upper portion with gas outlet apertures, of a vertically swinging wiper arranged above the tubular burner and having its forward end adapted to contact with the tubular burner and close a selected aperture thereof, said wiper being provided at its opposite end with a stop element, a support, means pivotally connecting such opposite end of the wiper with the support so that the stop element of the wiper may engage with the support and prevent the wiper being moved upwardly to a perpendicular position, a contact element carried by the support and arranged near the said forward end of the wiper and adapted to be directly engaged by the same when the wiper is swung upon its pivot, and a circuit connected with the wiper and the contact element.

1,347,719. FURNACE FOR HEATING METAL ARTICLES AND THE LIKE. WILLIAM HENRY SOUTHORNE, North Shields, England. Filed Dec. 27, 1918. Serial No. 268,518. 1 Claim. (Cl. 263—7.)



In a furnace for hardening and annealing tools, gages and the like, a furnace chamber formed with an arched roof and concave sides, a removable rotatable table forming the bottom of said chamber, a reduced portion forming the bottom of the table, a circular hole in the bottom of the chamber into which the reduced portion projects, a carrier beneath said table, a shaped recess in the top of said carrier, a similarly shaped projection on the bottom of the reduced portion of the table adapted to engage said recess, means for supporting and rotating said carrier, an opening at one end of said chamber closed by a door, a passage leading from the top of said chamber at the other end through which the products of combustion pass and heating means comprising a Bunsen burner projecting into the top of one of the concave sides of said chamber, for the purposes described.

1,347,720. SLIDING SHOE FOR FURNITURE. FRIEND W. SMITH, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Oct. 2, 1919. Serial No. 327,900. 3 Claims. (Cl. 16—4.)



1. A sliding shoe for furniture, comprising a bowl-shaped body having an annular groove in its inner side wall, a convex cover plate having its peripheral edge portion engaged in the groove and formed centrally with an aperture, and a pintle passed through the aperture and bearing on the bottom of the body.

1,347,721. HAT-BLEACHING COMPOSITION. EMANUEL J. STRATIGOS, Cleveland, Ohio. Filed May 26, 1920. Serial No. 384,362. 3 Claims. (Cl. 8—2.)

1. A hat cleaning composition including zinc oxid, sulfur, gelatin, white glue, and oxalic acid bleaching solution.

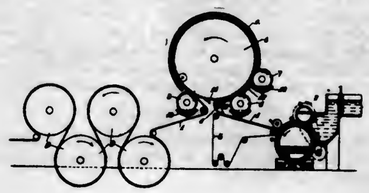
1,347,722. NUT-LOCK. EDWIN E. THOMAS, Portland, Oreg., assignor to Thomas Engineering Works, Portland, Oreg. Filed Dec. 21, 1918. Serial No. 267,842. 3 Claims. (Cl. 151—19.)



3. In combination with a bolt, a collar having an external conical surface, and a nut-like element formed of a series of stave-like sections connected intermediate their ends, and internally threaded at their connecting portion,

the inner ends of said stave-like sections being of conical form, whereby as said nut-like element is screwed on to said bolt, the inner ends of said stave-like sections are expanded and their outer ends moved inwardly into circumferentially locked engagement with said bolt, substantially as shown and described.

1,347,723. PROCESS OF AND MEANS FOR REMOVING WATER FROM THE PULP SHEET IN THE WOOD-PULP AND CELLULOSE MANUFACTURE. RUDOLF ERNST WAGNER, Karlstad, Sweden, assignor to Aktiebolaget Karlstads Mekaniska Verkstad, Karlstad, Sweden. Filed July 19, 1917. Serial No. 181,473. 5 Claims. (Cl. 92—99.)



1. In a means for removing water from the pulp sheet in the wood-pulp and cellulose manufacture, the combination of a heated rotary roll for receiving the pulp sheet, and press rolls coöperating with the said heated roll and located at distances from one another and from the points of applying the pulp sheet to and removing the same from the heated roll which distances are increased in the direction of movement of the pulp sheet, each press roll being arranged to be driven with less peripheral speed than the press roll immediately preceding in the direction of movement of the pulp sheet in proportion as the thickness of the pulp sheet becomes decreased during the pressing, substantially as and for the purpose set forth.

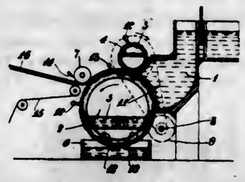
2. In a means for removing water from the pulp sheet in the wood-pulp and cellulose manufacture, the combination of a heated rotary roll for receiving the pulp sheet, said roll being provided with projections on its outer surface, and press rolls coöperating with the said heated roll and located at distances from one another and from the points of applying the pulp sheet to and removing the same from the heated roll which distances are increased in the direction of movement of the pulp sheet, substantially as and for the purpose set forth.

3. In apparatus of the class described, a water extractor, a drying cylinder and a heating drum, means for guiding the sheet of pulp as the same issues from said extractor to and in contact with said heating drum, a pressure roll coöperating with said drum for pressing a substantial portion of the water from said pulp sheet during its passage in contact with said drum, and means for thereafter guiding said sheet to said drying cylinder; the feed of said sheet throughout said apparatus being continuous.

4. In the manufacture of sheet pulp or cellulose, the improved process of expelling therefrom a substantial percentage of water after the issuance of the sheet from the water extractor, which process consists in simultaneously applying heat and pressure to said sheet during the continuous feeding thereof through the combined heating and pressing device.

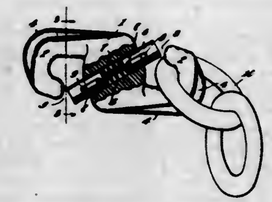
5. In an apparatus of the class described, a water extractor, a heating drum, means for guiding the sheet of pulp as the same issues from said extractor to and in contact with said heating drum, a pressure roll coöperating with said drum for pressing a substantial portion of the water from said pulp sheet during its passage in contact with said drum, and means for guiding said sheet away from said drum, the feed of said sheet throughout said apparatus being continuous.

1,347,724. APPARATUS FOR EXTRACTING WATER FROM WOOD-PULP AND THE LIKE. RUDOLF ERNST WAGNER, Karlstad, Sweden, assignor to Aktiebolaget Karlstads Mekaniska Verkstad, Karlstad, Sweden, a Manufacturing Company of Sweden. Filed Jan. 22, 1918. Serial No. 213,216. 2 Claims. (Cl. 92—39.)



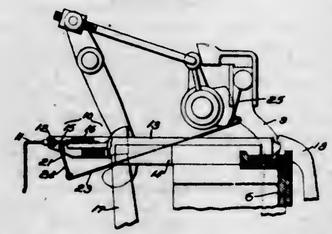
1. In an apparatus for extracting water from wood-pulp, cellulose, and the like in wet-machines, so-called drying-machines, and the like, the combination of a number of pulp inlets, a rotary strainer roll for each pulp inlet, and a common rotary strainer roll coöperating with and bearing against the first named rolls, said rolls being located close by the pulp inlets in such manner that the pulp coming from the pulp inlets gathers on the surfaces of the rolls as well as between these surfaces.

1,347,725. CHAIN-REPAIR LINK. LEO A. WEISS, Cleveland, Ohio. Filed Mar. 30, 1920. Serial No. 369,859. 1 Claim. (Cl. 24—239.)



A repair link comprising a relatively heavy metal block substantially square in cross section and having oppositely presented hooks at opposite ends thereof, the opposite sides of the block projecting beyond the surface planes of the hooks, said block having a diagonal bore through the same, and spring pins working in said bore, toward and from the points of the hooks, and being presented out of alinement with said points, whereby the ends of the pins may be pressed by a link or the like to force the pins inwardly.

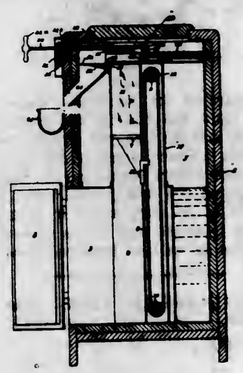
1,347,726. FEELER-LOOM. EARLE J. WENTZ, Gaffney, S. C., assignor to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed Aug. 14, 1917. Serial No. 186,208. 5 Claims. (Cl. 139—85.)



1. A loom having, in combination, a filling detector mechanism including a filling fork for causing loom stop-

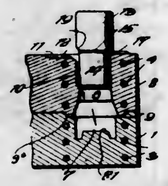
page on the detection of filling absence, a weft replenishing mechanism, means for initiating the weft replenishing operation, and means for tilting the filling fork to render inoperative the filling detector mechanism on the initiation of the weft replenishing operation.

1,347,727. MACHINE FOR DISPENSING ICE-CREAM. FRANK A. WHITE, Cleveland, Ohio, assignor of one-half to Arthur H. Voigt, Cleveland, Ohio. Filed Sept. 2, 1919. Serial No. 321,254. 5 Claims. (Cl. 107—1.)



1. In a dispensing machine the combination of an upright chute adapted to hold a body of material, a lifting mechanism in said chute adapted to lift said body to extend a portion thereof beyond the chute, a magazine for containers located beside the chute, means to lift the containers in the magazine to position successively beside the top of the chute, a cutting mechanism working transversely across the top of the chute and adapted to sever a portion of the said body of material, means to advance the portion so severed into the adjacent container, and means to discharge the filled container from the machine.

1,347,728. METHOD AND APPARATUS FOR MOLDING OR CASTING ARTICLES OR INGOTS FROM MOLTEN METAL. EDWIN COOPER WILLS, Frederick, Md. Filed Sept. 2, 1915. Serial No. 48,679. 3 Claims. (Cl. 22—216.)

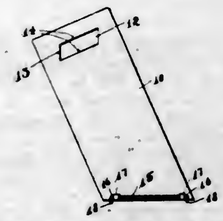


1. A method of molding or casting metals, which consists in placing the molten metal in a mold and in filling the mold to a higher level than the ultimate dimension of the article desired in one of its axes, and in subjecting the molten mass to pressure prior to its ultimate solidification by an agent having a rigid unyielding compression surface, whose area is equal to that of the surface of the adjacent end of the article, and which engages the said end throughout its entire area, and which, simultaneously with its engagement with the molten metal cuts off the flow of metal to the mold.

2. A molding machine, comprising upper and lower sections, the sections having coöperating cavities forming molds, and said cavities extending through the upper section, said mold cavities being arranged around a common axis, a central depression in the upper face of the upper section and having grooves leading to the several cavities, each cavity having a groove in its side wall extending from the groove in the upper face of the section to the mold cavity, a plunger fitting each cavity for compressing the molten material in the mold, each plunger having an annular shoulder intermediate its ends for engaging the upper surface of the mold to limit the downward movement of the plunger, and said plungers being of a length to cut off the supply of molten metal to the mold cavity when the shoulder is in engagement with the upper section of the mold cavity.

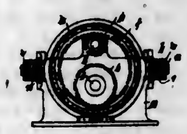
3. A molding machine having an open mold and a plunger fitting the opening of the mold and adapted to move into the mold and having an area at its lower end equal to the area of the surface of the adjacent end of the article, said mold having a feed passage for the molten metal, the plunger serving as a gate to close the communication between the passage and the mold cavity at the moment when the plunger engages the molten metal.

1,347,729. WRITING-RANGER. GEORGE T. WEIDE, Los Angeles, Calif. Filed Dec. 9, 1919. Serial No. 343,596. 8 Claims. (Cl. 35—8.)



1. In a writing ranger of the class described, a body member consisting of a plate having an aperature forming the range within which the writing is to be produced and having means for locating and holding such body with the range in correct position before the writer.

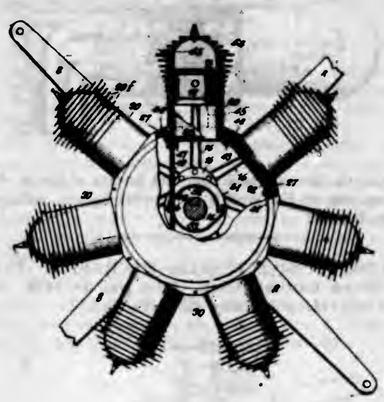
1,347,730. TOOTHED GEARING. JOSEPH ZEITLIN, Fulham, London, England. Filed May 28, 1918. Serial No. 237,123. 3 Claims. (Cl. 74—7.)



1. A toothed gearing consisting of a plurality of pinions, an internally toothed ring embracing and engaging said pinions, a housing for rotatably supporting said ring to enable it to revolve when motion is being transmitted through same to or from one pinion to another, antifriction devices adapted to support said ring in said housing so that the ring can revolve and transmit motion from one pinion to another pinion, the said pinions being rotatably mounted adjacent to and independent of said housing, and means whereby the said housing is relatively movable to said pinions so that the ring and the pinions can be adjusted relatively to one another, substantially as described.

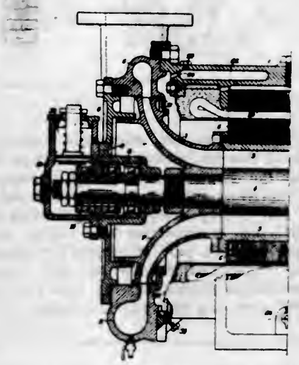
1,347,731. INTERNAL-COMBUSTION ROTARY ENGINE. HAROLD J. CARMODY, Brooklyn Manor, N. Y., assignor of one-half to Joseph A. Faurot, New York, N. Y. Filed Aug. 7, 1918. Serial No. 248,691. 3 Claims. (Cl. 123—44.)

1. In an internal combustion rotary engine the combination of a shaft, an engine body revolubly mounted thereupon and provided with a number of cylinders disposed radially and adapted to turn end over end as said engine body rotates, each cylinder having a wall provided with a compartment, a sleeve carried by each cylinder



and located within the compartment thereof, an annular gear connected to each sleeve in order to turn the same, pinions disposed between the annular gears and engaging the same, and mechanism controllable by rotation of said engine body for turning one of said annular gears.

1,347,732. COMBINED MOTOR-PUMP. THOMAS LANCELOT REED COOPER, London, England. Filed Mar. 25, 1919. Serial No. 284,943. 4 Claims. (Cl. 253—194.)

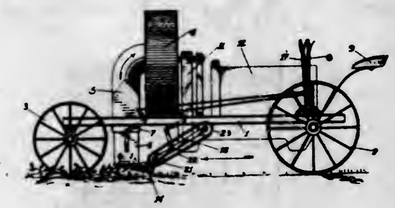


1. In a combined electric motor and pump, a shaft, a pump impeller mounted on the shaft, a fixed pump volute, a hollow spider mounted on the shaft, and rotor plates mounted on the spider of such diameter that they can be withdrawn together with the shaft through the pump volute.

1,347,733. MACHINE FOR RAISING AND CUTTING POTATO-VINES AND THE LIKE. JAMES F. DAVIS, Atwater, Calif., assignor of one-half to Silas S. Howard, Atwater, Calif. Filed Dec. 1, 1919. Serial No. 341,628. 2 Claims. (Cl. 56—153.)

1. A machine for raising and cutting vines comprising a wheel mounted frame adapted for movement along the ground, a relatively large suction fan mounted on the frame, the intake thereof being positioned adjacent the ground, and a sickle operatively mounted behind the intake with the teeth projecting into the area thereof adjacent its lower edge.

2. A machine for raising and cutting vines comprising a wheel mounted frame adapted for movement along the ground, a relatively large suction fan mounted on the frame, the intake thereof being positioned adjacent the



ground, a sickle operatively mounted behind the intake with the teeth projecting into the area thereof adjacent its lower edge, and means for independently adjusting the horizontal plane of the intake and sickle relative to the ground and to each other.

1,347,734. METHOD OF MAKING EMULSIONS. JUDSON A. DE CREW, New York, N. Y. Filed Dec. 30, 1918. Serial No. 268,965. 4 Claims. (Cl. 87—9.)

1. A method of making emulsions or emulsoids, which consists in forcing an emulsifiable compound into contact with an aqueous solution, the materials being mixed violently under pressure, with any emulsifying apparatus at a temperature of approximately 180° Fahrenheit, and then discharging the emulsions or emulsoid formed into an aqueous solution having a lower temperature.

1,347,735. ELECTRIC-CIRCUIT THERMOSTAT. JOHN H. DERBY and ERNEST S. CLAYTON, New York, N. Y., assignors to American Fire Prevention Bureau, Inc., a Corporation of New York. Filed Dec. 5, 1917. Serial No. 205,524. 11 Claims. (Cl. 200—143.)

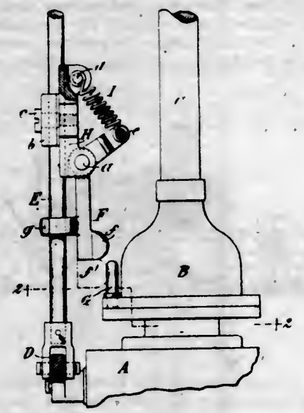


1. In an electric circuit thermostat, comprising a continuous length casing, said casing including within its area side walls and separated conductors for an electric circuit normally insulated from one another by a strip of insulating material having perforations therethrough, a thin flat strip of easily fusible conducting material confined between said side walls and adapted, when fused, to spread through said perforations, and electrically bridge said circuit conductors, said strip of said insulating material and strip of easily fusible conducting material being coextensive with said casing.

1,347,736. BRAKE MECHANISM FOR MOTOR-CARS. WILLIAM DIETER, Brooklyn, N. Y. Filed Jan. 30, 1920. Serial No. 355,212. 7 Claims. (Cl. 116—56.)

1. In a motor car, the combination with a revolving part thereof and a brake, of an alarm device operatively

connected with the brake and adapted, when the brake is applied, to be actuated by said revolving part to give an



alarm to the driver when the car is running with the brake applied.

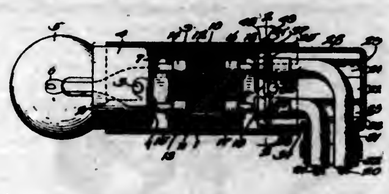
1,347,737. CIRCUIT-CONTINUING DEVICE. HARRY A. DOUGLAS, Bronson, Mich. Filed Aug. 15, 1918. Serial No. 250,024. 2 Claims. (Cl. 240—7.)



1. An incandescent electric lamp structure including a main socket; a supplemental socket at the forward end of the main socket and in separable bayonet projection and channel engagement therewith; an incandescent lamp bulb whose base is in separable bayonet projection and channel engagement with the supplemental socket; and a contact carrier in the main socket having a spring contact pressing forwardly upon a contact upon the lamp bulb base to maintain all of said bayonet projections in engagement with their seats in the bayonet channels, in combination with a circuit extending cord having a plug at one end which is insertible within the forward end of the main socket and carries a contact engageable with a complemental contact upon the carrier in the main socket, said cord having a socket at its other end formed to have separable bayonet projection and channel engagement with the supplemental socket, this socket upon the cord having a contact carrier provided with a spring contact pressing forwardly and adapted to engage a complemental contact upon the lamp base that is within the supplemental socket.

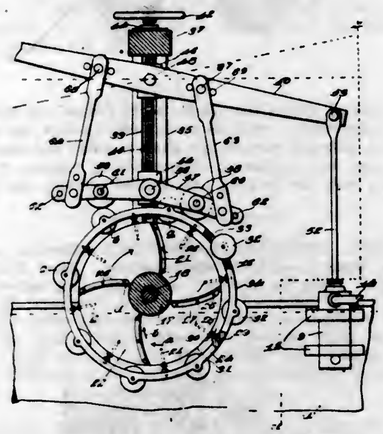
1,347,738. CURRENT-CARRYING PLUG. HARRY A. DOUGLAS, Bronson, Mich. Original application filed Feb. 4, 1918, Serial No. 215,330. Divided and this application filed Oct. 14, 1918. Serial No. 258,065. 1 Claim. (Cl. 173—361.)

A current carrying plug having a bore extending thereinto laterally and toward one end of the plug, in combination with a conductor extending into the plug through said bore, a sheath for the plug provided with a longitudinal slot through which the conductor is passed, and a ferrule surrounding said conductor and projecting into



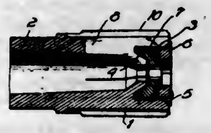
the sheath through said slot and having a flange within the interior of the sheath to prevent lateral withdrawal of the ferrule.

1,347,739. PUMP-ACTUATING MECHANISM. FRANCIS J. EVANS, Burbank, Wash. Filed May 31, 1919. Serial No. 301,128. 8 Claims. (Cl. 103—69.)



1. In a floating pumping apparatus, barges rigidly united in spaced relation, means extending from the shore for sustaining the barges in the current, a pump driving water wheel rotatively supported on and disposed between said barges and having heads, beam-actuating disks or wheels peripherally mounted on said heads, a walking beam for each barge, a pair of pumps for operation by each walking beam and carried by said barges, and wheeled transmission means coacting with the wheels on said heads for actuating said walking beams.

1,347,740. REAMER. FRANK W. HACK, Chicago, Ill. Filed Dec. 6, 1918. Serial No. 265,539. 2 Claims. (Cl. 77—75.)



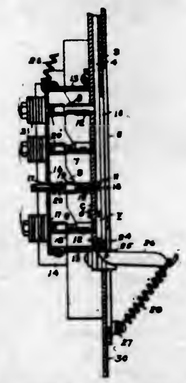
2. A tool of the class described having a hollow cylindrical body portion and a shank or tang at one end of the body portion, said body portion being provided with integral cutting edges, slits extending between the cutting edges from the free end of the body portion toward the shank, said body portion being provided with a conical

projection and an oppositely disposed conical seat at its slotted end, and a pair of coacting complementary conical surfaced members having threaded engagement with said body portion and independently rotatable, whereby the turning of said members will effect the expansion and contraction of said tool as desired.

1,347,741. MANUFACTURE OF STEEL. ROBERT ABBOTT HADFIELD, Westminster, England. Filed Aug. 10, 1917. Serial No. 185,523. Renewed May 27, 1920. Serial No. 384,726. 12 Claims. (Cl. 75—45.)

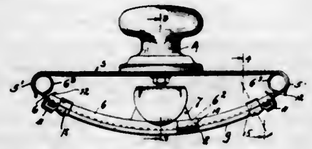
1. The manufacture of steel containing from about decimal three of one per cent, to one per cent. and upward of carbon and practically free from or low in manganese consisting in decarburizing, desiliconizing and demanganizing a molten charge of iron to the desired degree and deoxidizing the resulting product by a light deoxidizing agent.

1,347,742. COIN-OPERATED MECHANISM. EDWARD H. HELT, Bellevue borough, Pa. Filed Nov. 4, 1919. Serial No. 335,577. 11 Claims. (Cl. 194—92.)



1. In a coin operated mechanism adapted to be operated with different numbers of coins, the combination of a fixed member, an actuating member provided with a longitudinally disposed coin slot into which the coins are dropped one after the other and mounted to reciprocate in relation to said fixed member, a plurality of locking means moving with said actuating member and individually adapted to engage a portion of said fixed member to prevent actuating movement of said actuating member, means for rendering said locking means individually inactive, and means whereby the active locking means are temporarily rendered inoperative by the insertion of the proper number of coins in said coin slot, thereby permitting the actuating movement of said actuating member.

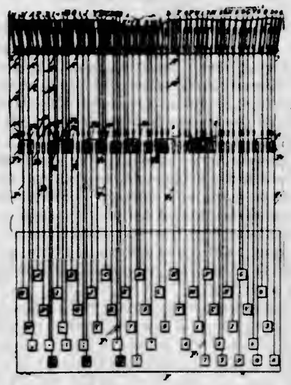
1,347,743. DUPLICATOR. OSCAR HIDALGO, Valparaiso, Chile. Filed Oct. 10, 1919. Serial No. 329,773. 6 Claims. (Cl. 101—125.)



1. In a duplicator, a presser plate having a hook-shaped grasp.

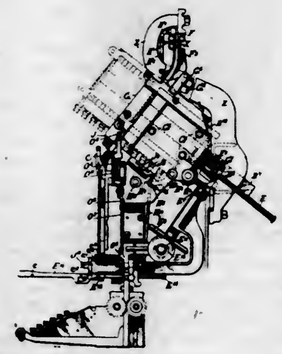
6. In a duplicator, a presser plate, provided with end notches, a stencil sheet adapted to be removably placed on the outer face of said presser plate, and band shaped clasps, one for each end of said presser plate, each clasp having a hook shaped portion adapted to pivotally engage the corresponding notch in said presser plate and to snap over the opposite edge of the said presser plate.

1,347,744. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Aug. 16, 1916. Serial No. 115,151. 20 Claims. (Cl. 199—18.)



20. In a typographical machine, the combination of a magazine containing a series of matrix columns including single or unduplicated columns of matrices bearing the same character, a bank of escapements controlling the release of the matrices from the magazine, and a keyboard mechanism operatively connected to the escapements and including indirect connections between some of the finger keys and their corresponding escapements, the said indirect connections being extended to the escapements for single or unduplicated columns of matrices.

1,347,745. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Nov. 30, 1917. Serial No. 204,534. 49 Claims. (Cl. 199—16.)



1. In a typographical machine, the combination with a plurality of magazines and a shift frame therefor, of power-operated mechanism for moving the shift frame to bring any selected magazine into operation, the said mech-

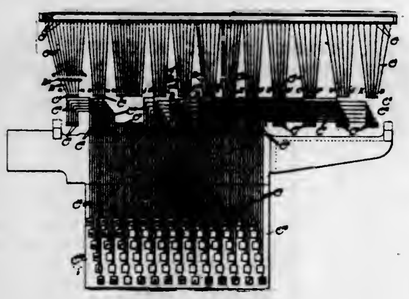
anism including a pair of screw rods loosely connected to the shift frame at opposite sides thereof, rotating sleeves or nuts threaded to the screw rods and having gears fixed thereto, a transverse rotary shaft provided with driving gears meshing with the sleeve gears and further with a driven gear, a fore-and-aft shaft provided at its rear end with a driving gear meshing with the driven gear of the transverse shaft and at its forward end with a driven gear, a constantly rotating shaft provided with two loosely mounted driving gears engaging the driven gear of the fore-and-aft shaft on opposite sides and with a clutch member movable into engagement with one or the other of said driving gears, and a hand lever controlling the movements of the clutch member.

15. In a typographical machine, the combination of a plurality of magazines each provided with a movable matrix locking device, power-operated mechanism for shifting the magazines to bring any selected one thereof into operation, and means to prevent the operation of said mechanism until the matrix locking device of the operative magazine has been moved to active position.

22. In a typographical machine, the combination of a plurality of shiftable magazines, mechanism for shifting the magazines to bring any selected one into operation, a matrix locking plate carried by each magazine and movable laterally thereof in opposite directions to active or inactive position, and means for moving the locking plate of the operative magazine to active position before the magazines are shifted.

43. In a typographical machine, the combination of a magazine provided with a matrix locking device movable at will to active position, a matrix feeler movable across the end of the magazine, and means adapted when operated to effect first the movement of the matrix feeler and then the movement of the matrix locking device.

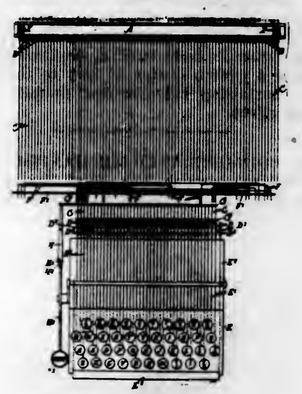
1,347,746. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Original application filed Nov. 30, 1917, Serial No. 204,534. Divided and this application filed Mar. 29, 1919. Serial No. 286,221. 18 Claims. (Cl. 199—18.)



1. In a typographical machine, the combination of a keyboard comprising finger keys, a magazine of materially greater width at its discharge end than that of the keyboard, matrix releasing escapements associated with the magazine, actuating reeds connected to the escapements and some removed laterally from their corresponding finger keys, and offset connections between the latter keys and the remote escapement actuating reeds.

11. In a typographical machine, the combination of a channeled matrix magazine having single channels for most of the matrices and duplicate channels for those more frequently used, a bank of escapements controlling the release of the matrices from the magazine, and a keyboard mechanism operatively connected to the escapements and including indirect connections between some of the finger keys and their corresponding escapements, the said indirect connections being extended to the escapements for both the single magazine channels and the duplicate magazine channels.

1,347,747. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Aug. 23, 1917, Serial No. 187,730. Renewed Jan. 27, 1920. Serial No. 354,513. 17 Claims. (Cl. 199—18.)



1. In a typographical machine, the combination of a channeled magazine containing a font or set of matrices divided into groups, a bank of escapements controlling the release of the matrices from the magazine, a series of escapement actuating reeds divided into groups corresponding to the group arrangement of the matrices in the magazine, the corresponding reeds in the respective groups being located remotely from each other, a keyboard, and mechanical devices whereby the keyboard as a whole may be connected to one or another of the groups of escapement actuating reeds to effect the release of matrices of the corresponding group from the magazine.

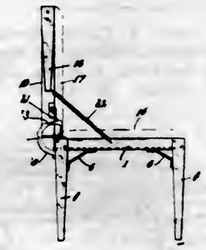
3. A structure as specified in claim 1, characterized by the fact that at its discharge end the magazine is of materially greater width that that of the keyboard.

12. In a typographical machine, the combination of a channeled matrix magazine having escapements, a series of escapement actuating reeds divided into groups, a single group of key-controlled operating rods or sections, sets of intermediate connecting bails engaged at one end with the escapement reeds of the respective groups and having their opposite ends disposed side by side adjacent the group of operating rods, and means for shifting the operating rods laterally into engaging relation to any selected set of bails.

13. A structure as specified in claim 10, in combination with a shift key to control the connection of the operating rods with the desired group of escapement actuating reeds.

1,347,748. COMBINATION BED AND CHAIR, DMYTRO LYTWYNEC, Hafford, Saskatchewan, Canada. Filed Dec. 11, 1919. Serial No. 344,086. 1 Claim. (Cl. 155—45.)

A combination chair and couch comprising a seat element, a back element hinged to said seat element, legs adjustably carried by the free end of said seat element, a keeper bar secured upon said seat element and curved concentrically to the hinge axis of the back element, a bolt carried by the back element, said keeper bar presenting an elongated recess in which said bolt engages to retain the back element in raised position with a limited back and forward movement, and a pair of spiral tension



springs connected at opposite ends to the seat and back elements and normally acting to swing the back element forwardly.

1,347,749. EXTINGUISHING ATTACHMENT FOR LAMP-BURNERS. ANTON MEDWATZ, Allentown, Pa. Filed Dec. 27, 1919. Serial No. 347,815. 2 Claims. (Cl. 67—78.)



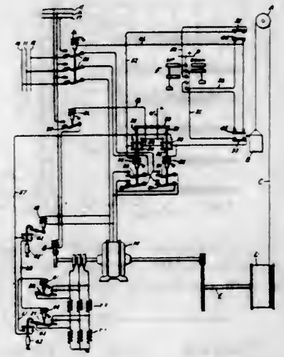
1. In a combined lamp dimmer and extinguisher, a lever support, a lever pivotally mounted on said support, a wide end on said lever having an opening therein, a loop formed from the other end of said lever, and a hinged section on the wide end of said lever arranged for swinging to cover and uncover said opening.

1,347,750. METHOD OF ASSORTING BRISTLES. JOHN MORRISON, Jr., Glens Falls, N. Y. Filed Dec. 3, 1918. Serial No. 265,175. 2 Claims. (Cl. 15—45.)



1. The method herein described of assorting bristles, which consists in arranging a plurality of needle bars with their needles crossing each other so as to form voids, showering bristles upon said needles and guiding said bristles between said needles in order to arrange said bristles with their lengths extending in a common direction and their butt ends extending in a single direction, removing some of the needle bars in succession so as to draw out the needles and leave the ends of the bristles protruding, grasping said ends by hand, pulling upon them so as to disengage them from the mass of bristles and finally tying the bristles thus extracted into bundles of convenient size.

1,347,751. CONTROL OF INDUCTION-MOTORS. ROBERT H. MCLAIN, Schnectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 21, 1917. Serial No. 203,245. 6 Claims. (Cl. 172—152.)



1. The combination with an induction motor, of a plurality of sources of electrical supply, each having a different frequency, the voltages of the sources being in substantially the same ratio as their frequencies, line switches for making and breaking the motor connections to any one of said sources for both directions of rotation, a switch for shifting the motor connections from one source to another said shifting switch being biased for normally making connections with the low frequency source and means for closing said line switches to start said motor at low speed and for throwing said shifting switch to accelerate said motor to a higher speed.

1,347,752. WINDSHIELD FOR AUTOMOBILES. SAMUEL J. MENEELY, Newburgh, N. Y. Filed Nov. 12, 1919. Serial No. 337,463. 6 Claims. (Cl. 296—96.)

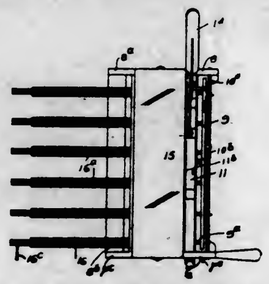


6. In a wind shield for vehicles, the combination of vertically disposed standards, a main frame located adjacent to said standards and supported pivotally at its lower edge, adjustable securing devices for holding said frame in different positions with respect to said standards, and a plurality of transparent panels pivotally mounted in said main frame upon horizontal pivots, and adjustable thereon with respect to each other and the main frame, a hood having a horizontal portion and downwardly extending substantially triangular lateral portions, and detachable means for securing said hood to the main frame, the said standards, and the forward edge of the top of the vehicle.

1,347,753. MACHINE-GUN. LIDO J. PATRICK, San Diego, Calif. Filed Aug. 23, 1917. Serial No. 187,810. 5 Claims. (Cl. 89—13.)

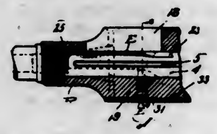
1. A machine gun including, a series of barrels arranged in a horizontal row, a cartridge retainer revolubly mounted contiguous to the breech end of each of said barrels, a manually operated endwise and downwardly shiftable bar provided with a plurality of extending

lugs for engaging said retainers in its movement for revolving said retainers simultaneously a one-quarter



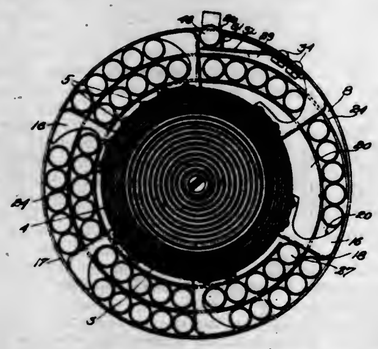
revolution and a magazine mounted over said cartridge retainer adapted to deliver cartridges to each of said retainers with each one-quarter revolution.

1,347,754. **FIREARM.** OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed May 15, 1919. Serial No. 297,284. 5 Claims. (Cl. 42—25.)



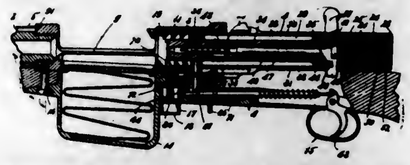
2. A firearm comprising a breech bolt having an elongate recess extending from the forward end of the bolt longitudinally along one side thereof and having a dovetail groove extending transversely of said recess at a distance from the end of the bolt, and an elongate extractor adapted to lie in said recess and having a transverse dovetail gib adapted to slide into said dovetail groove, the bolt and extractor having shoulders arranged to prevent said gib from slipping out of said groove, and the extractor being sufficiently flexible to permit it to be sprung outwardly until said shoulders clear each other, thereby to permit said gib to be slipped out of said groove.

1,347,755. CARTRIDGE-MAGAZINE. OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed May 15, 1919. Serial No. 297,285. 19 Claims. (Cl. 42—19.)



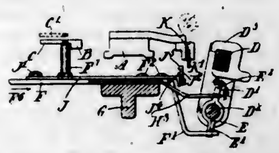
1. A cartridge magazine comprising a substantially circular casing having a delivery opening at the periphery thereof, means for advancing cartridges circumferentially toward said opening, and other means for propelling the cartridges radially to said opening.

1,347,756. **GUN.** OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1920. Serial No. 353,704. 21 Claims. (Cl. 42—3.)



1. A gun comprising a receiver, a breech closure movably disposed in the receiver to reciprocate rearwardly and forwardly and to rotate at the forward end of its stroke into locked position, the receiver and closure having locking abutments arranged to interengage when the closure rotates into locked position, and having an interfitting lug and guideway to guide the closure, the locking abutments being inclined to the line of breech pressure at such angles as to hold the bolt closed at high breech pressure and to slide relatively to each other when the pressure drops to a low value automatically to unlock the closure, the guideway having a longitudinal portion and a transverse portion tangentially connecting with the longitudinal portion throughout a gradual and uninterrupted bend so that the rotation of the closure into and out of locked position blends with its reciprocation smoothly and without impact, and the lug and guideway being coördinated with the locking abutments so that the abutments are guided into and out of locking engagement throughout a smoothly curving path.

1,347,757. TABULATOR MECHANISM FOR TYPE-WRITING-MACHINES. ERIC JULIUS PILBLAD and ARTHUR TOMLINSON, Leicester, England, assignors to Imperial Typewriting Company Limited, Leicester, England. Filed July 8, 1919. Serial No. 309,460. 13 Claims. (Cl. 197—176.)

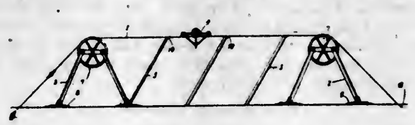


1. In a tabulating mechanism for a typewriting machine, the combination with a spring-controlled support having one or more tabulator-stops for the carriage, which support is movable in an endwise direction under its spring-control parallel with that of the carriage and also in a direction transverse thereto, and a tabulator key-lever operatively connected with said support and arranged to move to and fro in the said transverse direction, of a catch arranged to directly engage and hold the said key-lever in the position into which it is moved in releasing the carriage escapement, and tripping means arranged to operatively connect the said support with the catch and to trip the catch during the endwise movement of the support at the end of the movement of the carriage in a direction toward a tabulator stop.

1,347,758. CABLEWAY. HARRY DE COURCY RICHARDS, San Francisco, Calif. Filed Sept. 26, 1917. Serial No. 193,274. 8 Claims. (Cl. 104—126.)

1. In a portable cableway, the combination with a cable of adjustable end supports therefor, inclined stanchions

intermediate said end supports and located at one side of the cable, members formed at the ends of said stanchions to receive the cable, means for bracing said inclined



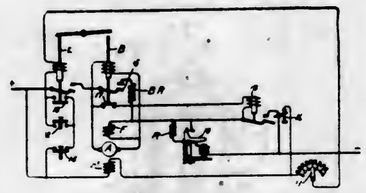
stanchions, anchors for said cable, means for tensioning the cable between said anchors to enable trolleys or carriers to traverse said cable.

1,347,759. **BUTTON-FASTENER.** RUBY ROOT, San Diego, Calif. Filed Apr. 28, 1919. Serial No. 293,316. 3 Claims. (Cl. 24—103.)



1. In a device of the class described, the combination with a conventional button with an extended lug, of a disk member, a spring member provided with an offset therein adapted to engage the lug of the button and rigidly secured to one side of said disk member and an interlocking latch secured to the opposite side of said disk member for receiving the end of said spring member.

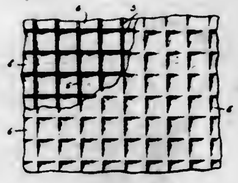
1,347,760. MOTOR-CONTROL SYSTEM. CLAUDE C. RUNNER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 14, 1918. Serial No. 222,413. 5 Claims. (Cl. 172—288.)



1. A control system for electric motors comprising a starting resistance, an electromagnetic switch energized by the motor current to cut out the resistance when the motor current drops to a predetermined value and means controlled by the speed of the motor and independent of the motor current for cutting out the resistance when the motor current is below a value at which the electromagnetic switch will close.

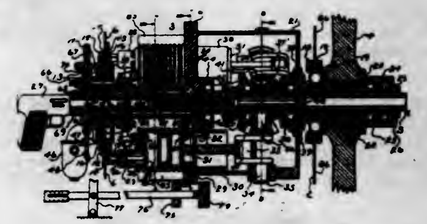
1,347,761. PICTURE-SCREEN. JAMES M. SHAY, Buffalo, N. Y., assignor, by direct and mesne assignments, to Steel Velour Screen Corporation, Buffalo, N. Y., a Corporation of New York. Filed May 7, 1919. Serial No. 295,343. 3 Claims. (Cl. 88—24.)

1. A picture screen comprising a body provided with interstices, a sheet of fabric pressed into contact with the body so closely that there are formed on the surface of the fabric slight depressions corresponding to the



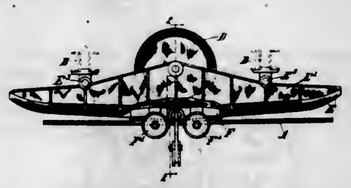
interstices of the body, and means uniting the body and the fabric together.

1,347,762. **HYDROCARBON-ENGINE.** WILBUR L. SHEPARD, Elmwood, Conn., assignor to The World Gas Engine Company, Hartford, Conn., a Corporation of Maine. Filed Sept. 19, 1917. Serial No. 192,062. 2 Claims. (Cl. 121—62.)



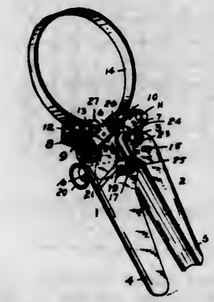
1. The combination of a hollow carrier, cylinders individually removably fitted in an end wall of the carrier, projecting from said end wall and extending into the carrier, the longitudinal axes of the cylinders being in parallelism with each other and with the longitudinal axis of the carrier, the cylinders being disposed approximately equal distances apart, pistons slidable in said cylinders, rods jointed to the respective pistons within said carrier, cranks to which the rods are respectively connected, the cranks being disposed in said carrier and the rods also extending thereinto, means in the carrier for receiving the effect of the respective cranks, means for causing the reciprocation of the pistons in their respective cylinders and arcuate fan blades fitted against the carrier, engaging each outer end portion of the cylinders and spaced respectively from each other.

1,347,763. AERIAL ROPEWAY. HERBERT FREDERICK HENRY SHIELDS, Welling, and JOHN PEARCE ROE, London, England, assignors to Ropeways Limited, London, England. Filed Aug. 21, 1919. Serial No. 319,012. 24 Claims. (Cl. 104—115.)



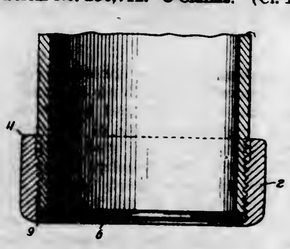
1. A device of the character described for coöperation with boxheads of aerial ropeways, comprising a depression-sheave, and guides on opposite sides thereof, said guides having a length greater than the length of a single boxhead, substantially as described.

1,347,764. ADJUSTABLE GRIPPING-TOOL. WILLIAM W. SHIRLEY, Pittsburgh, Pa. Filed Mar. 5, 1920. Serial No. 363,620. 9 Claims. (Cl. 81—3.)



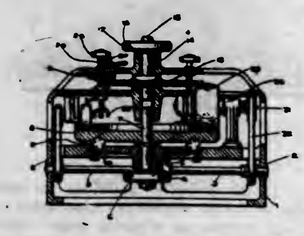
8. In a tool, a pair of crossed levers, a pivot connecting the levers between their ends, the levers having jaw members at one side of the pivot, and handle members at the other side therof, a looped flexible member having one terminal portion passed over the jaw member of one lever and secured to the other lever on that side of the pivot where the handle members are.

1,347,765. THREAD-PROTECTOR AND METHOD OF MAKING SAME. PETER J. SHRUM, Monaca Heights, Pa., assignor to Colona Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 20, 1918. Serial No. 250,712. 3 Claims. (Cl. 137—91.)



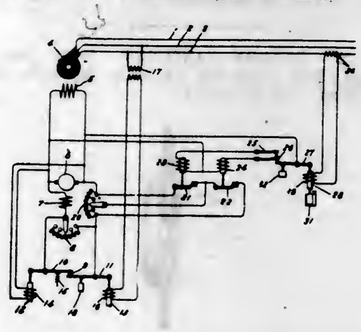
1. The method of manufacturing thread protectors consisting in reaming a threaded blank to provide a receiving seat adjoining the base of the endmost thread, then inserting a retaining ring within the receiving seat with a portion of its body portion extending inwardly beyond the threads providing an annular abutment, and then swaging over the end portion of the blank into retaining engagement with the ring.

1,347,766. LENS-GRINDER. EDGAR D. TILLYER and LUCIAN W. BUOBEE, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 30, 1917. Serial No. 204,666. 1 Claim. (Cl. 51—131.)



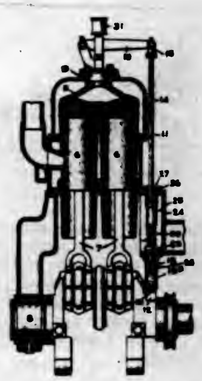
A lens grinding machine, including a frame, a rotating table bearing an annular grinding tool, said tool having a main spherical transverse curve and a supplemental transverse portion of different curve, a main drive gear carried by the frame, a plurality of spindles having pinions at their upper ends to mesh with the drive gear, and a plurality of lenses at their lower ends for engagement with the tool, whereby a pair of surfaces of different foci will be formed on each of the lenses, and means for independently shifting the spindles to move their pinions out of mesh with the main drive gear.

1,347,767. OVERLOAD-RELAY. EUGENE E. VALK, Los Angeles, Calif., assignor to General Electric Company, a Corporation of New York. Filed Nov. 21, 1917. Serial No. 203,065. 6 Claims. (Cl. 171—229.)



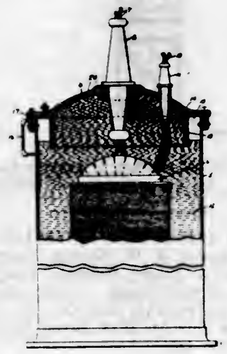
1. The combination with an electrical distribution system, of a generator for supplying current thereto, means for exciting said generator, means responsive to an abnormal electrical condition of said generator for decreasing the excitation of said generator, and means for automatically restoring said excitation in a plurality of steps during an appreciable time interval after said electrical condition becomes normal.

1,347,768. INTERNAL-COMBUSTION ENGINE. WILLIAM EVERETT VER PLANCK, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Nov. 9, 1918. Serial No. 261,761. 3 Claims. (Cl. 123—90.)



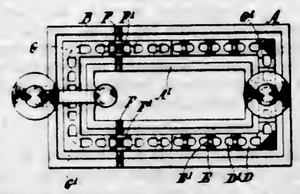
1. In an internal combustion engine, a push rod comprising two members, one of which has a longitudinally split end with a tapered counter-bore, means for connecting the two members together comprising a taper plug which fits into said counterbore and has projections which are fastened to said two members, and a stop nut which screws over said split end.

1,347,769. CASING FOR ELECTRCAL APPARATUS. JAMES WILKINSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 29, 1917. Serial No. 199,089. 7 Claims. (Cl. 175—361.)



1. In an electrical apparatus, the combination with an inclosure having therein windings surrounded by liquid insulating material, of bushings having leads for said windings passing through the top of said inclosure and means for providing a region of homogeneous insulating material about the entire portion of said bushings and leads within said inclosure, and a sustaining body of gas in an adjacent region.

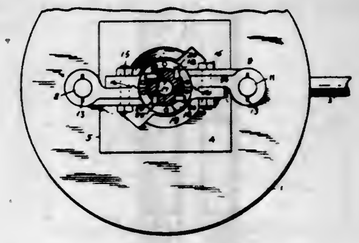
1,347,770. ACCUMULATOR ELECTRODE-GRID. SIGMUND WILLNER, London, England, assignor to William Dederich, London, England. Filed Sept. 4, 1918. Serial No. 252,629. 9 Claims. (Cl. 204—29.)



8. An accumulator having a plurality of grids nested within each other, the four walls of one grid being built up of a plurality of vertical and horizontal bars, to form vertical and horizontal rows and spaces, there being perforations through the bars to form communicating openings between adjacent spaces, and means for supporting one of the grids on the other grids substantially as described.

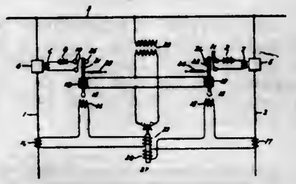
1,347,771. ROTARY DRILLING-MACHINE. CLYDE S. WRIGHT, Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 3, 1919. Serial No. 335,386. 4 Claims. (Cl. 255—23.)

1. In a well-drilling machine, provided with a rotary table having a central opening, and a drill-stem reciprocable in the opening and having external longitudinal grooves, the combination of a driver having an opening with a groove corresponding to each of the drill-stem grooves, a separate and distinct insert in each pair of



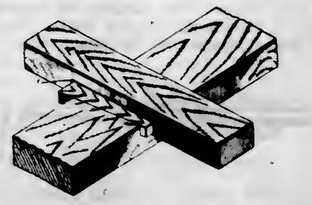
corresponding grooves, means preventing travel of the inserts in the driver, and means connecting the driver to the table.

1,347,772. PROTECTIVE MEANS FOR SYSTEMS OF DISTRIBUTION. DAVID BASCH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 12, 1917. Serial No. 190,897. 8 Claims. (Cl. 175—294.)



1. The combination with two parallel feeders, reverse power relays associated with each feeder having current and potential elements effectively coöperating on conditions of reversal accompanied by low voltage, and means for holding said relays inoperative until a relative reversal of power occurs on said feeders.

1,347,773. KEY-ANCHOR. WILLIAM S. BRUMMETT and EDWARD C. REED, Pawhuska, Okla. Filed Nov. 28, 1919. Serial No. 341,077. 2 Claims. (Cl. 20—92.)

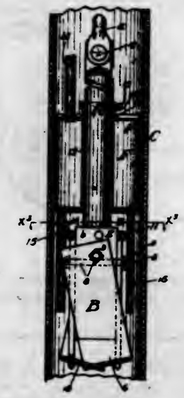


1. A device of the character described, comprising a plate having openings with oppositely extending burs at diametrically opposite sides of said openings, said plate also having other plain openings, in the even surface thereof, without burs at their margins.

1,347,774. DRILLING-BIT. THOMAS C. BUDDINGTON, Pasadena, Calif., assignor of one-half to Samuel G. Elam, Pasadena, Calif. Filed May 22, 1919. Serial No. 298,978. 3 Claims. (Cl. 255—76.)

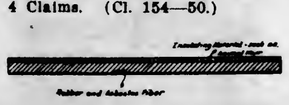
1. A bit, comprising a bit stock provided with a cutter eccentrically suspended from the bit stock and thus having

an inherent tendency to project laterally into drilling position; in combination with liquid circulation means



comprising a casing, means for connecting the casing with the bit stock, and a liquid supply pipe extending to the casing; said casing being adjustably mounted.

1,347,775. INSULATING, WATERPROOF SOLE FOR USE ON BOOTS AND SHOES. HARRY M. BURR, Middletown, and GEORGE J. INGRAHAM, West Hartford, Conn., assignors to The Omo Mfg. Co., Middletown, Conn., a Corporation. Filed July 2, 1919. Serial No. 308,160. 4 Claims. (Cl. 154—50.)



1. As a new article of manufacture, an insulating waterproof sole for boots and shoes, comprising a lower or wearing portion and an upper or insulating portion, these portions being separately fabricated and united, and the lower portion containing rubber and asbestos fiber which latter is arranged transversely, or substantially transversely, to the axis of the sole, and the upper portion containing a component of insulating material.

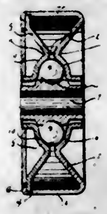
1,347,776. ELECTRODE-HOLDER. RALPH H. CHADWICK, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Sept. 23, 1919. Serial No. 325,648. 4 Claims. (Cl. 219—8.)



1. An electrode holder, comprising a sleeve member provided with a shank, an insulating member adapted to receive a portion of said shank, said portion being formed to receive an electric cable to be electrically connected with said shank portion within said insulating member, and unitary means for uniting in operative relation said insulating member, said shank and said cable.

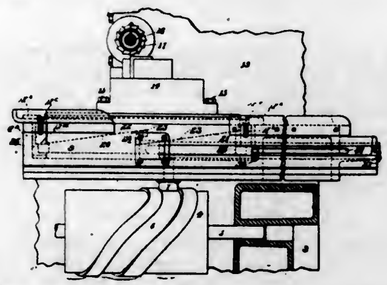
1,347,777. ROLLER-SKATE WHEEL. HARRY A. HANNUM, Springfield, Mass., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Mar. 17, 1920. Serial No. 366,479. 2 Claims. (Cl. 46—52.)

1. A ball-bearing roller-skate wheel of the inclosed type, the said wheel consisting in a hub, and two plates inwardly struck up to form ball-cups and secured together in spaced relation, whereby their oppositely located high



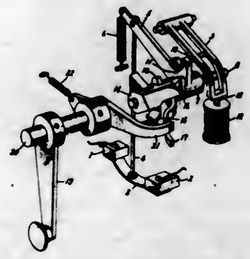
points are kept out of contact to provide for correction after assemblance, for the prevention of wabbling.

1,347,778. DROP-TABLE MECHANISM FOR MILLING-MACHINES. BENGT M. W. HANSON, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Continuation of application Serial No. 869,216, filed Oct. 29, 1914. This application filed July 31, 1918, Serial No. 247,638. 7 Claims. (Cl. 90—58.)



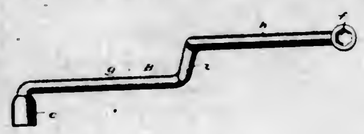
1. In a milling machine the combination of a bed having horizontal ways, a unitary box-like reciprocating slide having a thin bottom wall directly engaging the ways on the bed and having its chamber closed on all sides and open at the top, a vertically movable horizontal work support positioned across the top of the chamber, means for reciprocating the slide, and means in the bottom of the chamber in immediate proximity to the ways for moving the work support upward or downward at predetermined points in the reciprocation of the slide.

1,347,779. ELECTRIC SWITCH. ERNEST H. JACOBS, Chicago, Ill., assignor to General Electric Company, a Corporation of New York. Filed July 30, 1917. Serial No. 183,436. 2 Claims. (Cl. 200—109.)



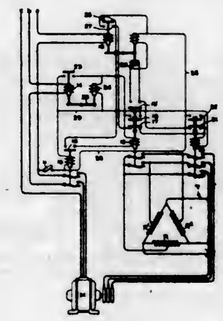
1. An electric switch comprising fixed and movable contacts, an actuating arm for controlling said movable contact, a latching member biased to engage said arm and restrain it in switch closing position, an independent tripping member movable to engage said latching member and move it to releasing position, an independent resetting member for moving said actuating arm from switch opening to switch closing position, and an independently mounted operating arm intermediate said tripping and resetting members and movable to engage either of said members but biased free of both said members.

1,347,780. WRENCH. RAYMOND E. JACOBY, Philadelphia, Pa. Filed July 16, 1919. Serial No. 311,320. 4 Claims. (Cl. 81—177.)



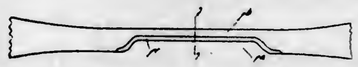
2. A wrench whose shank is composed of straight, parallel sections which are connected by a crank and are relatively offset in two different directions on opposite sides of said crank, and wrench sockets carried by the respective sections.

1,347,781. CONTROL OF ELECTRIC MOTORS. BENJAMIN W. JONES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 20, 1918. Serial No. 235,437. 14 Claims. (Cl. 172—274.)



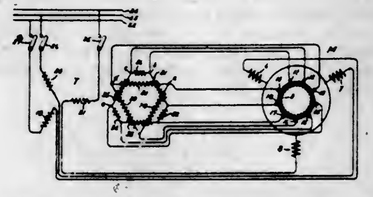
3. The combination with a three-phase motor and resistance sections having a delta connection thereto of means for connecting an intermediate point of each of said sections to an intermediate point of each of the other sections to reduce the resistance in the motor circuit.

1,347,782. NECKTIE. JOSEPH KAISER, San Diego, Calif., assignor to Carlotta G. Kaiser, San Diego, Calif. Filed Aug. 8, 1918. Serial No. 248,830. 2 Claims. (Cl. 2—11.)



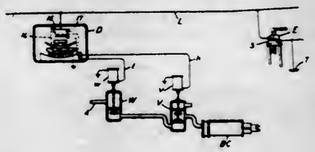
1. A necktie having the upper marginal portion intact from end to end, the lower marginal portion being cut out at the central portion of the tie for a length and height permitting the necktie to avoid contact with the collar button in application and tying adjustment of such tie.

1,347,783. ALTERNATING-CURRENT MOTOR. WILLEM C. KORTHALS-ALTES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 30, 1918. Serial No. 231,597. 3 Claims. (Cl. 172—281.)



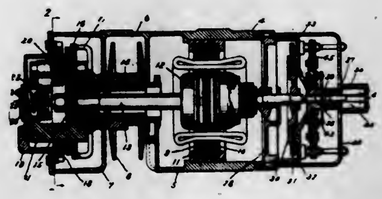
2. The combination with a three-phase alternating current motor having stator windings, a commutated rotor winding and coöperating brushes; of a transformer having phase multiplying secondary windings arranged in two mesh connected groups, one group having three windings and the other six, the ratio of alternate large and small windings in the six winding groups being substantially as two to one and the ratio between each winding of the three winding group and a small winding of the six winding group being substantially as two and one-half to one, said secondary windings having nine terminals which are connected in series with said brushes.

1,347,784. AUTOMATIC DECELERATING DEVICE. JOHN F. LAYNG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 24, 1917. Serial No. 157,251. 20 Claims. (Cl. 303—21.)



1. In an automatic decelerating device for a vehicle, means for retarding the movement of said vehicle and a governor provided with compensating means for offsetting the effects of grade for controlling the rate of retardation of said vehicle.

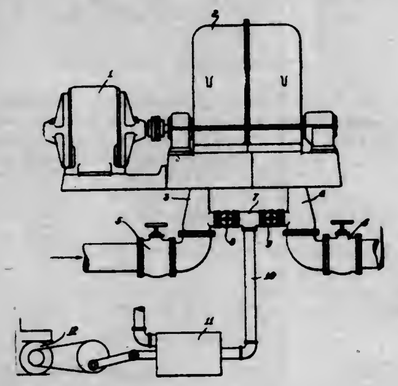
1,347,785. ELECTRIC HOIST. SAM H. LIBBY, East Orange, N. J., assignor to General Electric Company, a Corporation of New York. Filed Sept. 13, 1917. Serial No. 191,120. 1 Claim. (Cl. 254—168.)



An electric hoist comprising a casing, an electric motor therein having its armature longitudinally movable and spring pressed in one direction, a friction member secured to the armature shaft and coöperating with a stationary member to form a brake, reduction gearing at one end of said casing, a hoisting drum between the motor and the reduction gearing and driven thereby, a controller

secured to the opposite end of the casing, and means whereby the movement of the controller handle shifts the armature shaft against the spring pressure to release the brake.

1,347,786. STARTING MEANS FOR MOTOR-DRIVEN COMPRESSOR INSTALLATIONS. FREDERICK V. D. LONGACRE, Yonkers, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 23, 1919. Serial No. 292,017. 3 Claims. (Cl. 230—11.)



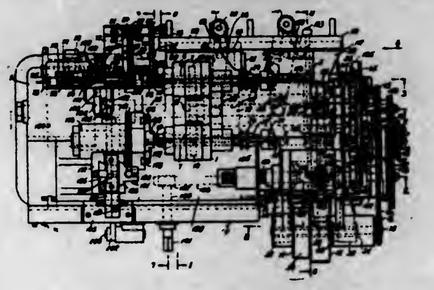
1. The combination of a synchronous motor, a centrifugal compressor coupled directly thereto, and independent means for producing and maintaining a vacuum throughout the interior of said centrifugal compressor until said synchronous motor has been brought up to speed.

1,347,787. RECORDING MECHANISM. HAROLD H. MAPELSDEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 24, 1919. Serial No. 284,658. 8 Claims. (Cl. 234—1.)



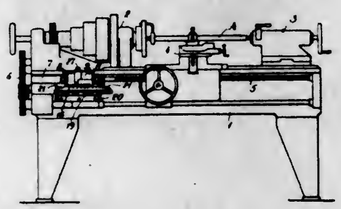
5. In an apparatus of the character described, a chart, a pen arm which extends substantially parallel to the chart and is pivoted at one end in a plane parallel to the chart, said pen arm being adapted to turn on said pivot to move its other end toward and away from the chart, a pen holder pivoted on the other end of said pen arm and hanging alongside the pen arm, and a pen carried by the pen holder and adapted to rest by gravity aginst the chart.

1,347,788. THREADING-MACHINE. FRIEDERICH MCLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 15, 1918. Serial No. 217,321. 27 Claims. (Cl. 10—91.)



1. The combination of a rotatable turret head, rotatable blank-carrying spindles mounted in the turret head, means for indexing the head to bring the spindles respectively to predetermined stations, cutting tools adapted to engage blanks carried by the spindles, a magazine mechanism comprising runways having a side wall inclined at 45° and a bottom wall oppositely inclined at 45° whereby the lowermost blank, regardless of diameter, is held with its axis in a fixed vertical plane which includes the spindle axis at one station, and means for bodily moving the magazine mechanism vertically to bring the axis of the lowermost blank into alinement with the spindle at the said station.

1,347,789. LEAD-VARYING MECHANISM. FRIEDERICH MCLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 15, 1918. Serial No. 217,322. 5 Claims. (Cl. 82—5.)



1. The combination of devices for holding a rotatable blank and a threading tool in operative engagement, mechanism including a rotatable lead screw for moving the tool longitudinally, a rotatable sleeve engaging the lead screw and fixed against longitudinal movement with respect thereto, a fixed element having threaded engagement with the sleeve, gear teeth on the sleeve, a transversely movable rack engaging the gear teeth, an angularly adjustable longitudinally movable taper bar for moving the rack, and means for moving the bar in timed relation with the rotation of the lead-screw.

1,347,790. PORTABLE AIR-BRUSH PLANT. CHARLES A. MURPHY, Oakland, Calif., assignor of one-half to Frank A. Tittemore, Richmond, Calif. Filed May 22, 1919. Serial No. 298,985. 3 Claims. (Cl. 91—45.)

1. A portable air brush plant comprising a unit consisting of a portable base and an interconnected electric motor and air compressor carried thereby, a flexible hose connected at one end with said compressor for conducting air under pressure therefrom, and a second unit consisting

of a portable air brush and receptacle for containing the material to be sprayed attached to the other end of said

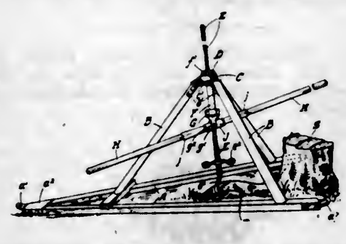


flexible connection, said flexible connection permitting the ready moving of one of said units independently of the other.

1,347,791. PROCESS OF PACKING COFFEE. WILLIAM H. PISANI, San Francisco, Calif., assignor to MAX J. Brandenstein, Manfred Brandenstein, and Edward Brandenstein, San Francisco, Calif., Copartners doing business under the firm-name of M. J. Brandenstein & Co., San Francisco, Calif. Filed Mar. 3, 1917. Serial No. 152,364. 2 Claims. (Cl. 99—8.)

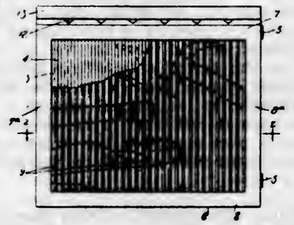
1. The process of packing roasted coffee, which consists in vacuumising and sealing a receptacle containing the coffee and then subjecting the filled receptacle to heat until sufficient gases have been developed within the receptacle to produce a pressure greater than atmospheric pressure therein.

1,347,792. STUMP-PULLER. BURTON JAMES ROBINSON, Stanley, Wis. Filed Dec. 27, 1919. Serial No. 347,806. 1 Claim. (Cl. 254—109.)



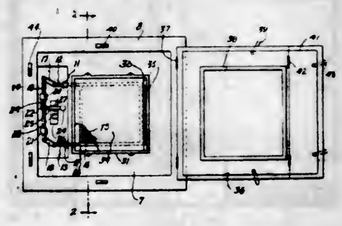
A stump pulling structure having a pyramidal frame upon alidable skids, said frame provided at its apex with a spherical bearing that sustains a pendant sleeve member adapted to offer a bifurcated pivotal connection embracing a rocking arm, the latter being apertured to allow passage of a vertically disposed ratchet bar at a point beneath the spherical bearing aforesaid.

1,347,793. CHANGING PICTURES. CHARLES W. SAALBURG, New York, N. Y. Filed Nov. 28, 1917. Serial No. 204,357. 4 Claims. (Cl. 40—137.)



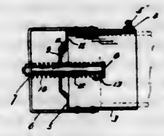
2. In combination, a composite picture made up of alternating sets of strips each showing an individual picture, and a screen in front of said composite picture having a plurality of spaced bars substantially circular in cross section.

1,347,794. PLATE-HOLDER FOR MAKING CHANGEABLE PICTURES. CHARLES W. SAALBURG, New York, N. Y., assignor to Animated Picture Products Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 28, 1917, Serial No. 204,358. Renewed Dec. 13, 1919. Serial No. 344,597. 23 Claims. (Cl. 95—36.)



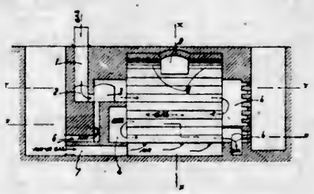
5. In a device of the character described, the combination of a frame, means for holding a lined screen, and means located within said frame for shifting the same while maintaining the lines parallel in the two positions, comprising devices attached to the two ends of the screen.

1,347,795. AUXILIARY AIR-VALVE FOR CARBURETERS. MARTIN E. SCHRADER, Oakland, Calif. Filed July 2, 1917. Serial No. 178,311. 2 Claims. (Cl. 251—145.)



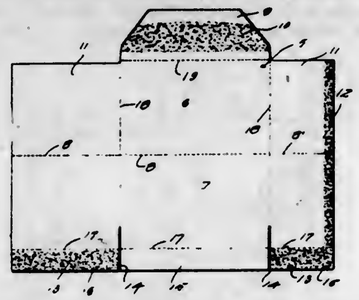
2. An air intake valve for carbureters comprising a cylindrical sleeve secured thereto, an inwardly extending radial flange on the outer end of said sleeve, a pin extending axially into said cylinder and secured thereto, a disk having a conical outer surface slidably mounted on said pin and spring means on opposite sides of said disk for normally holding the outer edge thereof in the plane of said flange.

1,347,796. BLAST-FURNACE. CHARLES STEIN, Paris, France, assignor to Societe Ch. M. Stein & Cie., Paris, France, a Corporation of France. Filed May 18, 1917. Serial No. 169,469. 1 Claim. (Cl. 263—19.)



A device for heating air or gas for use in a stove of the Cowper or Whitwell type, comprising a chamber communicating with the stove, an air or gas inlet for such chamber, a combustion chamber, a conduit for supplying the combustion chamber with combustible gas, an air conduit leading from the air inlet to the combustion chamber, and a conduit communicating with said combustion chamber and surrounding said first mentioned chamber.

1,347,797. DOUBLE ENVELOP. GRACE MAE STEVENS, Middletown Springs, Vt. Filed Aug. 1, 1917. Serial No. 183,882. 1 Claim. (Cl. 229—72.)

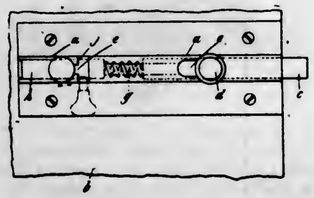


A double compartment envelop formed from a blank having a rectangular body portion, a tongue extending from one side edge of the body intermediate its length to provide a closure flap, the body portion being provided with slits extending transversely thereof from the opposite edge and in alinement with the ends of the closure flap to provide intermediate and end tongues, the intermediate and end tongues being bent back upon themselves and the end tongues being gummed, said body being folded at the slits with the end portions extending in overlapping relation and one of the end portions having its end edge portion gummed and adhering to the edge portion of the second end portion, said blank when folded forming a receptacle having open ends and said receptacle being folded transversely intermediate its length and the closure flap extending from one of the open ends of the receptacle being tucked into the second open end to close the open end and adhering to the gummed end tongues and having its opposite face gummed for adhering to the intermediate tongues to hold the receptacle in a folded position.

1,347,798. PRODUCT SERVING AS A NITRIFIER, FERTILIZER, AND INSECTICIDE. GEORGES TRUFFAUT, Versailles, France. Filed Feb. 7, 1918. Serial No. 215,834. 2 Claims. (Cl. 71—9.)

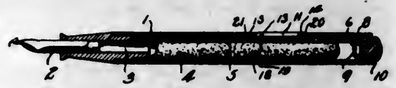
1. A product for destroying the protozoairs in the soil, which are opposed to the transformation of ammonia existing in nitrous organic matter of the soil, acting as a partial sterilizer of the soil, and as a fertilizer and insecticide, comprising a mixture of calcium sulfid and aromatic hydro-carbons which have been dephenolized and freed from their bases.

1,347,799. LOCK OR BOLT FOR DOORS AND THE LIKE. FREDERICK FRYER WILKINS, West Kilburn, London, England, assignor to Benjamin Edsall Johnson, London, England. Filed June 9, 1919. Serial No. 302,856. 4 Claims. (Cl. 292—179.)



1. A latch device including a casing having an opening, a main latch member slidable therein and having a socket in one end, a locking bolt arranged within the casing and having a reduced end portion adapted to fit in said socket of the main latch bolt, a spring confined between the end of the main latch bolt and the shoulder formed at the junction of the reduced end portion of the locking bolt with the body thereof, and a handle carried by the body of the locking bolt and coöperating with the opening in the casing to be held in locked position.

1,347,800. FOUNTAIN-PEN. PAUL E. WIRT, Bloomsburg, Pa. Filed May 11, 1917. Serial No. 167,964. 3 Claims. (Cl. 120—46.)

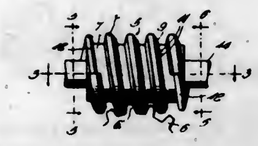


1. An operating unit for the ink sack of self-filling fountain pens including a guide pin carried by the pen casing, a presser bar for the sack having an extended bearing engagement with the opposite sides of the pin, and a depressing lever for the presser bar.

1,347,801. PROCESS FOR THE MANUFACTURE AND PRODUCTION OF CELLULOSE ACETATES. JOZ OLGIERD ZDANOWICH, London, England. Filed May 5, 1920. Serial No. 379,174. 10 Claims. (Cl. 23—24.)

5. A process for the manufacture of cellulose esters, which comprises subjecting said cellulose to the action of a weak esterifying mixture comprising a halogen organic acid, and after partial esterification of said cellulose in said mixture adding thereto a relatively small quantity of sulfuric acid.

1,347,802. WORM-SCREW. ROBERT HENRY BOTTS, Parker, Ariz. Filed Nov. 23, 1918, Serial No. 263,865. Renewed Dec. 19, 1919. Serial No. 346,172. 1 Claim. (Cl. 74—36.)

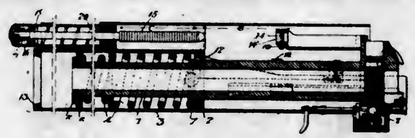


A worm having a hub and a continuous ball receiving and retaining channel in the working face of its thread and opening through the ends of the thread, said channel at its ends being enlarged, said worm having also a passage formed through its hub longitudinally inwardly of the thread, the ends of the passage being enlarged, said passage being located at the opposite side of the central longitudinal axis of the worm from the extremities of the thread, curved tubes each having an end engaged and secured within the enlargements at one end of the passage and having its opposite end secured within the enlargement at the adjacent end of the channel to form a continuous ball race, a plurality of balls disposed in the channel, the passage and the tubes for free movement therethrough, the hub having a transverse threaded passage formed therein opening through its outer face and communicating with the longitudinal passage for the introduction of balls therethrough to the passage, and a removable screw plug engaged in the threaded passage and lying with its inner end flush with the wall of the passage.

1,347,803. ORDNANCE. EMILE ALEXANDRE LOUIS BOURDELLES, Paris, France, assignor to Societe Anonyme Des Etablissements Delaunay Belleville, St.-Denis, Seine, France, a Corporation of France. Filed Jan. 6, 1919. Serial No. 269,863. 4 Claims. (Cl. 89—42.)

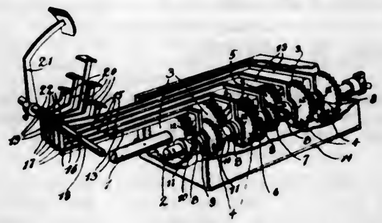
1. Ordnance of the class described, comprising a gun barrel, a support or casing for said barrel, a fixed bearing

therein for slidably supporting the barrel, an annular flange or fixed stop on the end of the barrel, coil springs concentric with said barrel, a pair of slidable washers mounted on the barrel for retaining the springs there



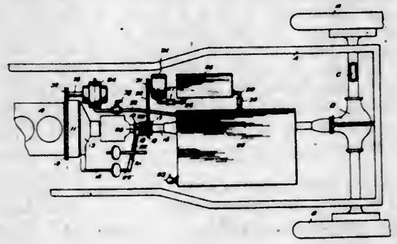
between, one of said washers adapted to bear against the fixed bearing in the casing and the other against the fixed stop on the barrel, said springs comprising a recoil mechanism when the gun is fired, and a buffer in case of mis-fire or retarded firing.

1,347,804. TRANSMISSION-GEAR. DON BYRD, Franklin, W. Va. Filed Apr. 10, 1919. Serial No. 289,098. 1 Claim. (Cl. 74—59.)



In a transmission mechanism, and engine clutch control mechanism including a rotatable shaft and means for imparting rotary movement to the shaft, a change speed gear mechanism for a speed control including a series of gears and clutches, levers controlling the clutches, each lever having a hub by which it is loosely mounted upon said shaft, clutch elements carried by the hubs of said levers, and clutch elements carried by the shaft for engaging the clutch elements of the levers to impart movement to the levers when the shaft is rotated.

1,347,805. AIR EQUIPMENT FOR AUTOMOBILES. CHARLES R. FEAGAN, Detroit, Mich. Filed Apr. 4, 1919. Serial No. 287,456. 4 Claims. (Cl. 60—57.)



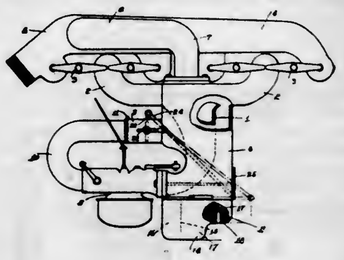
4. The combination with a vehicle, having a motor, a drive shaft therefor and a clutch for coupling said motor to the drive shaft, of an apparatus for generating and storing compressed air, comprising a high pressure tank, a low pressure storage tank communicating with the same, an air compressor communicating with the high pressure tank, and means for transmitting motion to said compressor from the drive shaft, said means becoming active upon the operation of the clutch to uncouple the motor from the shaft.

1,347,806. WELL CABLE-PUMP. JOE N. FENDER, Dallas, Tex. Filed Oct. 24, 1919. Serial No. 332,994. 4 Claims. (Cl. 103—80.)



1. A pump rod comprising a casing, a working barrel in said casing and providing an annular space between the same, a strainer coupled to the lower end of the barrel, a ball valve in the lower portion of the barrel, a plunger operating in the barrel having a passage therethrough, a cage on the plunger, a ball valve retained therein and coacting with the seat formed at the upper end of the plunger, a sectional pump rod, couplings connecting the sections of the rods and connecting the lower end of the rod with said cage, a cable detachably connected to the upper end of the rod, said barrel having a reduced upper end portion and apertures adjacent thereto, a sest on the barrel, an upper barrel sitting over said first named barrel and providing a space therebetween, said upper barrel being provided with a reduced upper end and apertures therebeneath, said reduced portions of the barrels being designed for engagement by couplings connecting sections of the rod whereby to successively lift the upper and lower barrel, and a packing in the upper barrel and the casing adjacent said seat, said upper barrel being provided with openings at said packing.

1,347,807. INTAKE-MANIFOLD. GEORGE FOX, Wichita, Kans. Filed Sept. 8, 1919. Serial No. 322,467. 6 Claims. (Cl. 123—122.)



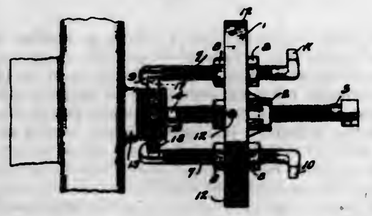
1. The combination with the carbureter, intake manifold and exhaust manifold of an engine, of a casing housing a portion of the intake manifold, means for supplying air thereto from the outer surface of the exhaust manifold, means for directing heated air from said casing to the carbureter, a burner movable into and out of position under the casing, and means operated by the movement of said burner into and out of position under the casing for closing and opening communication, respectively, between the casing and the carbureter.

1,347,806. CONSTRUCTIONAL TOY AND EDUCATIONAL DEVICE. FRANCIS PATRICK FRANKLIN, Liverpool, England. Filed Apr. 15, 1919. Serial No. 290,206. 2 Claims. (Cl. 46—35.)



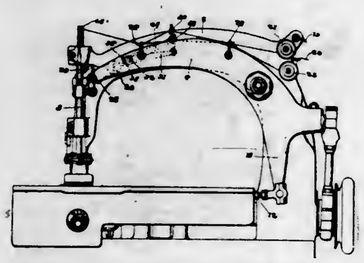
1. A toy or educational device comprising two split sockets projecting from an integral central part and arranged to lie in two parallel planes but with the axis of the socket that lies in the one plane at an angle with respect to the socket in the other plane so as to enable the rods that are passed into the respective sockets to cross one another.

1,347,809. PULLING IMPLEMENT. GEORGE E. FRISZ and JAMES D. WILTSHIRE, Indianapolis, Ind.; said Wiltshire assignor to said Frisz. Filed July 3, 1919. Serial No. 308,381. 10 Claims. (Cl. 29—85.)



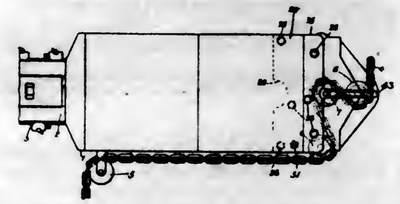
1. In an implement of the class described for removing wheels, pulleys, gears and the like from their shafts, the combination of a body having slots extending radially and circumferentially therein, a pressure applying member carried by said body, and object engaging means adjustably mounted on said body in the slots and displaceable from said slots upon movement to the circumferentially extending portion thereof.

1,347,810. THREAD-CONTROLLING MECHANISM. DE FOREST HAWLEY, Johnson City, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 28, 1917. Serial No. 193,731. 5 Claims. (Cl. 112—244.)



1. The combination with a plurality of needles, a looper coöperating with each needle, tension means through which the threads are led from the supply to the needles, and separate means acting on the respective threads between the tension means and the needles for controlling the amount of thread used in the formation of each stitch, said separate means including devices whereby the same may be adjustable to independently vary the degree of control on the respective threads.

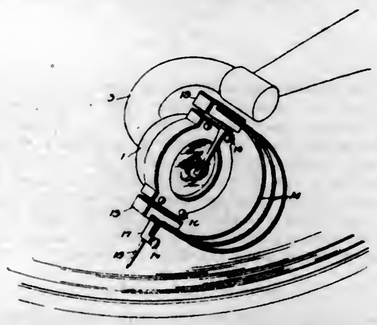
1,347,811. CLUTCH-CONTROLLING MECHANISM. MORRIS P. HOLMES, Claremont, N. H., assignor, by mesne assignments, to Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed June 5, 1916. Serial No. 101,727. 16 Claims. (Cl. 192—1.)



5. In a clutch controlling mechanism, clutch mechanism including a movable member, a pivoted actuating lever connected at one end to said movable member, a casing inclosing said elements, means connected to said lever at a point intermediate its ends and operable from the exterior of the casing for operating said lever, and means for adjusting the pivot of said pivoted lever from the exterior of said casing.

1,347,812. [WITHDRAWN.]

1,347,813. REPRODUCER FOR TALKING-MACHINES. JOHN W. KAUFMANN, Baltimore, Md. Filed May 10, 1919. Serial No. 296,088. 6 Claims. (Cl. 274—35.)



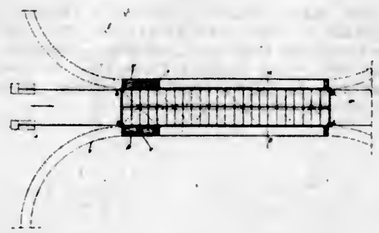
1. In reproducers, the combination with the sound box and the diaphragm, and the reproducing lever connected with the diaphragm, of bars arranged at opposite sides of the reproducer box and mounted to rock thereon, one of said bars being rigid with the reproducer lever and the other carrying the needle holder, and a connection between the said bars, said connection being resilient, and comprising substantially U-shaped springs, each having one end connected with one bar and the other with the other bar.

1,347,814. TOY AEROPLANE. EDWARD J. KINGSBURY and HARRY T. KINGSBURY, Keene, N. H. Filed July 17, 1919. Serial No. 311,671. 11 Claims. (Cl. 46—48.)



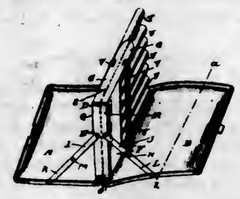
1. A toy of the character described, comprising a fuselage, planes and running gear made separate, and a common means for securing the same together.

1,347,815. HANGAR FOR DIRIGIBLES. GASTON LEBNEKUGEL LE COCQ, Châteauneuf-sur-Loire, France. Filed Feb. 28, 1918. Serial No. 219,683. 1 Claim. (Cl. 20—1.)



A hangar for dirigibles comprising four separate girder poles, main girders extending between and suspended at each end from the girder poles, a roof or cover supporting main stays depending from said girders for suspending the roof or cover, rails forming tracks arranged on each side of said hangar and curving outwardly from the longitudinal axis thereof, and displaceable side walls which are supported on said rails independently of the poles, suspension girders and cover, and are movable to positions to form harbors at the ends of the hangar, but adapted to coöperate with the roof or cover when in a normal position to form a complete housing or hangar.

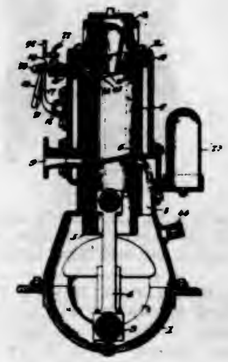
1,347,816. MEANS FOR FACILITATING THE WITHDRAWAL OF CIGARETTES OR THE LIKE FROM THEIR CASES. ALEXANDER MCKELLAR, Greenock, Scotland. Filed June 12, 1919. Serial No. 303,646. 2 Claims. (Cl. 206—41.)



1. In the means for the withdrawal of cigarettes and the like from their cases, a magazine composed of light metal, rear wall part lateral sides, canopy and bottom, a central partition plate constituting two chambers or compartments of unequal length, said plate having a downward extension in order to connect it conjointly with the hinge of the case, jointed levers connected each with the rear wall of magazine, and one to one leaf of the case, and the other to the opposite leaf, operating substantially in the manner and for the purposes hereinbefore described and shown on the drawings.

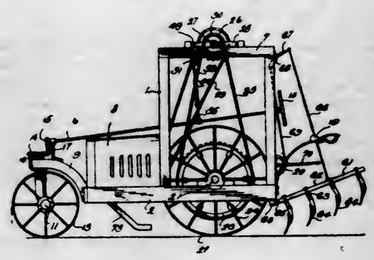
1,347,817. INTERNAL-COMBUSTION ENGINE. GEORGE STANLEY MACDONALD, Portland, Oreg. Filed Nov. 8, 1918. Serial No. 261,621. 3 Claims. (Cl. 123—32.)

1. In an internal combustion engine, a crank case, a cylinder, a piston disposed within the cylinder, the movements of the piston controlling a communication between the crank case and the interior of the cylinder, a combustion chamber at one end of said cylinder, a spraying nozzle disposed in said combustion chamber, a fluid fuel pump connected with said spraying nozzle, a pressure chamber disposed in the line of connection between said pump and said spraying nozzle, a rock shaft for operating said spraying nozzle, an eccentric for operating said rock shaft, an auxiliary manually operated lever for controlling the communication between the pressure chamber and the



spraying nozzle, and a relief valve for preventing the pressure in said pressure chamber from exceeding a predetermined amount.

1,347,818. TRACTOR-CULTIVATOR. GEORGE E. MALIN, Painesville, Ohio. Filed Aug. 24, 1918. Serial No. 251,296. 12 Claims. (Cl. 180—1.)

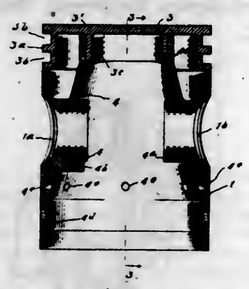


1. In a tractor the combination, of a pair of supporting frames, means connecting said frames, a traction wheel carried by one of said supporting frames, an auxiliary supporting frame yieldably and slidably connected to the other supporting frame, a traction wheel carried by said auxiliary sliding frame to permit movement thereof in relation to the first mentioned traction wheel, and a prime mover carried by one of said frames and operatively connected to said traction wheels.

1,347,819. PISTON FOR INTERNAL-COMBUSTION MOTORS. LOUIS P. MOOERS, Cincinnati, Ohio, assignor, by direct and mesne assignments, to The Cleveland Trust Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 28, 1916, Serial No. 106,502. Renewed Oct. 24, 1919. Serial No. 333,111. 10 Claims. (Cl. 74—108.)

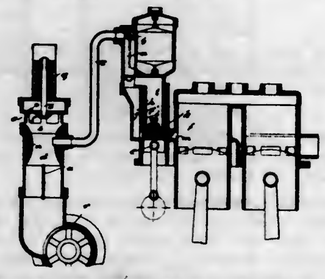
8. A piston for an internal combustion motor, comprising a cast metal head provided with an inner and an outer flange, a tubular sheet metal guide section, and

means formed with wrist-pin bosses for connecting the lower end of said guide section to the inner flange of said



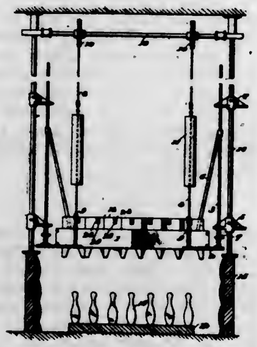
head, said means being mechanically secured to said inner flange without obstructing the opening to the lower surface of the head within said inner flange.

1,347,820. CARBURATION DEVICE FOR INTERNAL-COMBUSTION ENGINES. WILLIAM MORGAN, Birmingham, England, assignor of one-half to William Mills, Birmingham, England. Filed Feb. 14, 1917. Serial No. 148,618. 11 Claims. (Cl. 123—29.)



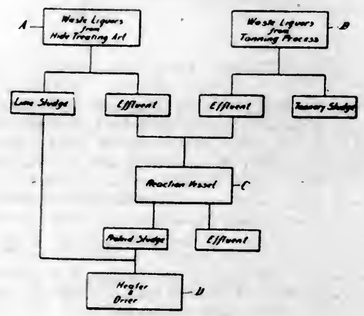
6. An internal combustion engine fuel system, including a fuel issuing jet, means for communicating thereto a difference of gaseous pressure created by the engine, a conduit interconnecting said jet and the combustion chamber of the engine, and a pump inserted in said conduit to convey the fuel and the gaseous carrying medium therefor into the combustion chamber, the delivery of fuel from said jet being independent of the operation of said pump.

1,347,821. PIN-SETTING MECHANISM. ALFRED N. OLSEN, Rock Rapids, Iowa. Filed July 2, 1919. Serial No. 308,081. 14 Claims. (Cl. 46—54.)



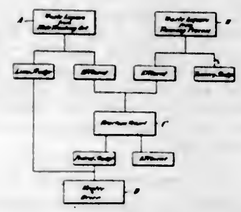
1. In pin setting mechanism, means to receive and support a pin in upright position and including a bolstering member movable in a direction to recede from the pin and in so moving operable to seat the same without a change in the position of the pin and to steady the pin upon receding therefrom.

1,347,822. RECOVERY OF PROTEIDS FROM WASTE LIQUORS OF THE HIDE-TREATING ART. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, New York, N. Y., a Corporation of Delaware. Filed July 20, 1918. Serial No. 245,854. 3 Claims. (Cl. 71—6.)



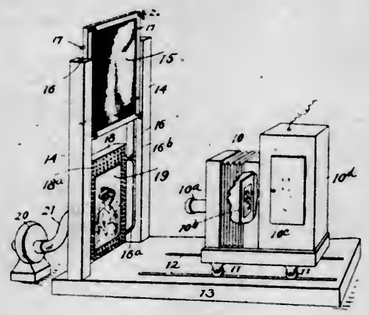
1. The method of recovering, from the waste liquors of the lime process of the hide-treating art, material available for use as a fertilizer, which consists in separating said liquors into a sludge and an effluent, precipitating the proteids contained in said effluent by subjecting them to the action of the waste liquors from the tanning process, and then heating the precipitated proteids in the presence of sodium hydroxid.

1,347,823. RECOVERY OF PROTEIDS FROM WASTE LIQUORS OF THE HIDE-TREATING ART. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, New York, N. Y., a Corporation of Delaware. Original application filed July 20, 1918, Serial No. 245,854. Divided and this application filed Jan. 6, 1920. Serial No. 349,791. 2 Claims. (Cl. 71—6.)



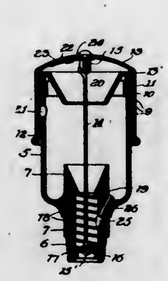
1. The method of recovering, from the waste liquors of the lime process of the hide-treating art, material available for use as a fertilizer, which consists in separating said liquors into a sludge and an effluent, precipitating the proteids contained in said effluent by subjecting them to the action of the waste liquors from the tanning process, and then heating the precipitated proteids in the presence of caustic lime; substantially as described.

1,347,824. PHOTOGRAPHIC APPARATUS. GEORGE N. PIPER, Cleveland, Ohio, assignor to The Postergraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 11, 1917. Serial No. 173,954. 5 Claims. (Cl. 88—24.)



1. A photographic apparatus such as herein described, a flat rigid support for a flexible sensitized sheet, a flat screen adapted to be positioned close to the support and parallel thereto, and means whereby a sensitized sheet placed against the holder and the screen are held in proper relationship with respect to each other by air pressure.

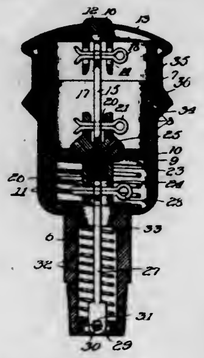
1,347,825. OIL-CUP. THOMAS G. PIHLFELDT and FELIX HARTUNG, Chicago, Ill. Filed Apr. 17, 1919. Serial No. 290,695. 6 Claims. (Cl. 184—38.)



5. An oil-cup comprising a body portion having an outwardly projecting nipple and an inwardly projecting boss spaced from the walls of said body to form a reservoir, the boss and the nipple being provided with communicating openings forming an oil exit and the body being provided with an opening extending from the reservoir to the oil exit, a fabric plug in the latter opening, means attached to said nipple for supplying oil through the opening therein when suction is produced in the cup, and means for producing suction and compression in the cup.

1,347,826. OIL-CUP. THOMAS PIHLFELDT and FELIX C. HARTUNG, Chicago, Ill. Filed May 22, 1919. Serial No. 298,929. 6 Claims. (Cl. 184—45.)

5. In an oil cup, a body portion, a piston movable therein, said piston having an opening therein, a valve adapted to seat upon the opening in the piston, said valve being provided with a bore affording communication between the upper and lower surfaces of the piston, a fibrous plug in said bore, means for moving the valve



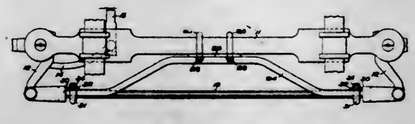
together with the piston downwardly in the cup and means for independently moving the piston upwardly when the valve is raised.

1,347,827. BUCKLE. OSCAR LLOYD RAYMER, Toronto, Ontario, Canada, assignor to Raymer Manufacturing Company, Limited, Toronto, Ontario, Canada. Filed Aug. 28, 1919. Serial No. 320,407. 4 Claims. (Cl. 24—168.)



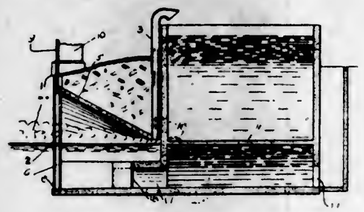
1. A buckle comprising, an outer member of loop shape having one end perforated, a tongue member arranged within said loop member having the end adjacent to the perforated end engaging said perforated end at the upper side in pivotal contact, and a flexible binding member connected to the tongue below the pivot point and extending through the perforated end of the loop, the free end passing between the free end of the tongue and the adjacent end of the loop and being gripped therebetween.

1,347,828. CONVERTIBLE RAILWAY AND ROADWAY VEHICLE. ANDREW L. RIKER, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Nov. 10, 1916. Serial No. 130,658. 5 Claims. (Cl. 105—180.)



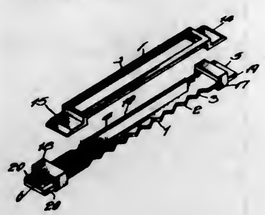
1. A convertible roadway and railway vehicle comprising, in combination, a pair of wheels, a pair of steering knuckles on which said wheels are journaled, an axle on which said knuckles are pivoted for steering movement, a link connecting said knuckles together to cause their conjoint movement, means for turning said knuckles to steer the vehicle when used on a roadway, and means for holding said link in fixed position thereby to adapt the vehicle for use upon a railway, the last-mentioned means including a holding member disposed lengthwise of said axle and link, and means for clamping said member laterally against said axle and said link.

1,347,829. WAVE-MOTOR. JOHN WARREN SOUTHWICK, North Collins, N. Y. Filed Aug. 8, 1918, Serial No. 248,133. Renewed Oct. 18, 1919. Serial No. 331,745. 2 Claims. (Cl. 61—20.)



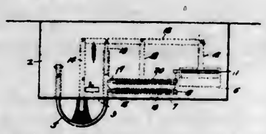
1. A device of the character specified, comprising a reservoir, a funnel shaped passage leading from the shore to the front wall of the reservoir and adapted to receive the breaking waves, a pipe leading from the small end of the passage upwardly and delivering to the reservoir, turbines in the bottom of the reservoir for utilizing the water therein, a passage beneath the reservoir leading from the turbines to the first named passage, check valves at the delivery end of the said last named passage for permitting the water to flow freely outward and for preventing the inflow of the water, a gate at the large end of the first named passage, and a hatchway leading to the passage beneath the reservoir for permitting access thereto.

1,347,830. HAIR-WAVER. BERNARD A. STERLING, Chicago, Ill. Filed Sept. 15, 1919. Serial No. 323,762. 8 Claims. (Cl. 132—18.)



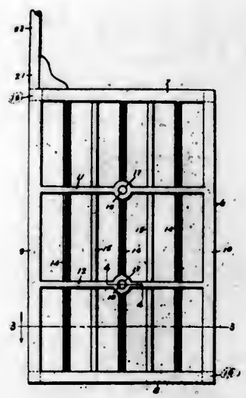
1. In a device for producing Marcel waves in hair, an elongated flat base member around which the strand of hair to be waved is adapted to be wound, a longitudinally extending thin projection or rib on the upper face of the base, a forming member for forcing the hair down toward the base on each side of said projection, and means for retaining the forming member in clamping position.

1,347,831. COIN-CONTROLLED APPARATUS FOR RENTING UMBRELLAS. HENRY C. WILLIAMS, York, Pa. Filed Apr. 11, 1919. Serial No. 289,349. 2 Claims. (Cl. 194—54.)



1. A coin-controlled umbrella renting apparatus comprising a casing having in its top slots for coins of different denominations, a loop-shaped umbrella securer movable rectilinearly forwardly and backwardly in the front wall of the casing and having a beveled projection on one of its side arms, a key-controlled spring-pressed bolt, a rod movable rearwardly in the front wall of the casing by an umbrella in the securer and having a notch for the engagement of said bolt, a lever fulcrumed at an intermediate point of its length and having its inner arm connected with said rod, a retractile spring to move said arm of said lever forwardly, a rod connected to said inner arm of the lever and extending forwardly therefrom and bearing against one end of the umbrella securer, a guard connected to the outer arm of said lever and arranged to close the slot for the coin of smaller denomination when an umbrella is out of the securer and to render said slot open when the umbrella is in the securer, a receptacle in communication with and extending downwardly from the slot for the coin of larger denomination and a delivery cup, a lever arranged to engage the lateral beveled projection on the umbrella securer and also arranged in said receptacle to be engaged and actuated by a coin placed in the upper portion thereof, a receptacle arranged below the slot for the coin of smaller denomination, and a lever arranged to normally extend into the first-named receptacle to support the coin therein and having a portion extending into the second-named receptacle whereby the lever will be engaged by the deposited coin of smaller denomination and moved to release the coin of larger denomination in the first-named receptacle.

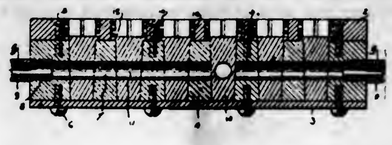
1,347,832. ELECTRODE FOR SECONDARY OR STORAGE BATTERIES. JAMES M. ALLEN, St. Louis, Mo., assignor, by direct and mesne assignments, to James M. Allen, Fred P. Smith, and Frederick D. Tucker, trustees for The Smith-Allen Battery Company, St. Louis, Mo. Filed Aug. 18, 1919. Serial No. 318,081. 2 Claims. (Cl. 204—29.)



2. An electrode comprising two complementary members, each of which is provided with thansverse and longitudinal bars spaced apart, said members being capable of holding an active material and being uniformly spaced apart entirely from top to bottom and from side to side, whereby the active material in both plates may be subjected to the electrolyte on four sides throughout the entire surfaces of the plates, and means for holding said members in such spaced relation.

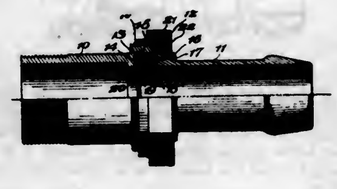
1,347,833. PIPE-LOCK. EDWARD BAKLEY, Chatham, N. J. Filed Apr. 30, 1919. Serial No. 293,720. 1 Claim. (Cl. 277—69.)

A pipe lock, including a body formed with a passage extending throughout its entire length, chambers formed at right angles to such passage, valves having their body portion extending into such chambers, shoulders formed upon such valves bearing against the upper face of the body portion, a top plate above such shoulders and body



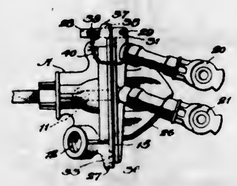
portion, and springs interposed between the top plate and shoulder portion of the valves for seating the latter at all times firmly within their respective chambers.

1,347,834. PIPE-UNION. MARTIN A. BARBER, Cleveland, Ohio, assignor to The American Automatic Connector Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 9, 1918. Serial No. 249,182. 18 Claims. (Cl. 285—120.)



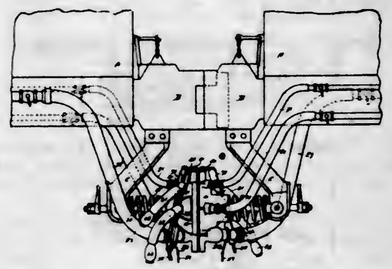
3. A pipe coupling or union including in combination, a tubular member having an interior annular recess forming a seat for a packing ring in one end thereof, a packing ring on said seat projecting from the end of said member, a second tubular member having a conical boss at one end of larger diameter than the interior periphery of said packing ring and adapted to engage said interior periphery, and means for drawing said members together to thereby compress said packing ring.

1,347,835. AUTOMATIC TRAIN-PIPE COUPLING. MARTIN A. BARBER, Cleveland, Ohio, assignor to The American Automatic Connector Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 9, 1918. Serial No. 249,183. 8 Claims. (Cl. 285—24.)



1. In combination with an automatic train pipe coupler head, an interchange formed with a conduit having a coupling for connection to a train pipe and means for securing the interchange against the face of the head including a pin at one side of said interchange and an arm at the other, said head being formed with a socket to receive the pin and support the interchange against the head at the pin side, said head also formed with an aperture through which the arm may extend, and means coöperating with said arm and head to draw and secure the interchange tightly against the face of the head.

1,347,836. TRAIN-PIPE CONNECTOR. MARTIN A. BARBER, Cleveland, Ohio, assignor to The American Automatic Connector Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 24, 1919. Serial No. 284,810. 12 Claims. (Cl. 284—6.)



6. In a train pipe connector, the combination of a head, having an orifice, a bar adapted to lie against the face of the head and having an orifice adapted to register with the orifice of the head, a link pivoted at one end to the end of the bar and pivoted at the other end to the head, said pivots extending transversely of each other.

1,347,837. WIRE WHEEL. THOMAS ARCHIBALD BOWERS, Brookline, Mass. Filed Aug. 26, 1919. Serial No. 320,027. 6 Claims. (Cl. 21—69.)

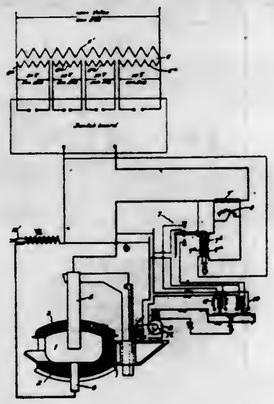


6. A crimped-body end-headed heat-tempered wire spoke, having a terminal arch extending from the spoke in the plane of the crimp to permit forming of the spoke in one machine operation and prevent undue straining of the metal, on a curve which is long to avoid a sharp bend and thus prevent crystallization between the head and spoke body.

1,347,838. METHOD OF TREATING METALS. REGINALD H. BULLEY, Syracuse, N. Y. Filed Apr. 24, 1916, Serial No. 93,070. Renewed Aug. 5, 1919. Serial No. 315,567. 12 Claims. (Cl. 204—64.)

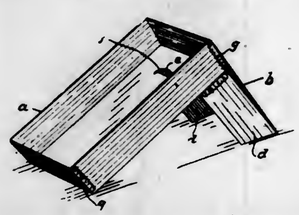
1. The method of treating metal by the use of an electric arc, which consists in subjecting the metal to the influ-

ence of a relatively high voltage electric arc in an electric circuit of given kilowatt load, and then reducing the



voltage of said arc in said circuit while retaining substantially the same kilowatt load.

1,347,839. BOX. HENRY R. COONS, Philadelphia, Pa., assignor, by mesne assignments, to Edwin Wolf, Benjamin Wolf, Clarence Wolf, Louis Wolf, and Albert Wolf, Copartners doing business as National Metal Edge Box Company, Philadelphia, Pa. Filed June 3, 1919. Serial No. 301,521. 6 Claims. (Cl. 206—44.)



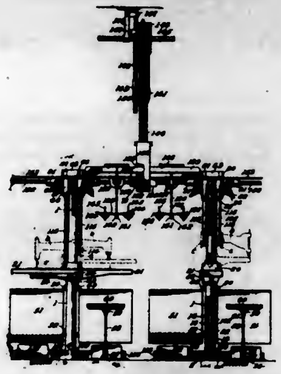
6. A box comprising a body and a lid hinged to the body and having an end wing, the lid comprising a plurality of sections hinged one to another, the lid sections being foldable relatively to the box and to each other to bring said wing in parallelism with and under that end portion of the box bottom which it is desired to elevate and in supporting relation thereto.

1,347,840. POWER-STAND FOR SEWING-MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Feb. 8, 1917. Serial No. 147,296. 22 Claims. (Cl. 45—27.)

1. A sewing machine stand comprising a column carrying intermediate its head and foot a sewing machine supporting shelf or table and provided at its foot with a flange extending at substantially right angles to the axis of the column, a floor-plate constructed separately from said column, fastening means for tiltably securing said flange to the floor-plate and positive means for tiltably adjusting the said column on the floor plate.

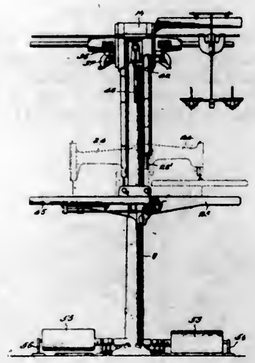
14. A sewing machine stand comprising a support having a shelf with an opening therein, a sewing machine having a pivotal mounting at one side of the opening, and means whereby the pivotal mounting may be moved from one side of the opening to the other while the machine is being swung on its pivot.

21. A sewing machine stand comprising an upright column carrying intermedite its head and foot a sewing machine shelf or table having an opening to receive a sewing machine bed-plate and an adjacent depending rib or flange formed with a lateral detent notch, a rock-shaft sustained by said shelf or table beneath said opening and



carrying a normally depending knee-lever for operation upon an element of the sewing machine, and a knee-plate fixed to said lever with an edge adapted to spring into said detent notch of the shelf-flange by which it is yieldingly detained when the knee-lever is raised into inoperative position.

1,347,841. CONTROLLING MEANS FOR POWER-TRANSMITTERS. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Feb. 8, 1917, Serial No. 147,296. Divided and this application filed Oct. 30, 1918. Serial No. 260,254. 5 Claims. (Cl. 74—81.)



3. The combination of a hollow support, an operatively connected power transmitter and machine carried by said support, a lever for controlling said transmitter and having a cam arm, a second lever having a roller adapted to engage said cam arm, a spring normally pressing said roller away from said cam arm, an inclosed link connected at one end to said second lever, a rock-shaft having an arm connected to the other end of said link, a second arm on said rock-shaft, a treadle, and an extensible connection between said treadle and said second arm.

1,347,842. BELT-GEARING. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Feb. 8, 1917, Serial No. 147,296. Divided and this application filed Oct. 30, 1918. Serial No. 260,255. 14 Claims. (Cl. 74—21.)



5. A belt gearing comprising a power-transmitter, a housing therefor, a driven pulley, a belt connection between said transmitter and pulley, a movable belt-housing, idler-wheels for said belt carried by said housing, and means for moving said housing to thereby tighten said belt.

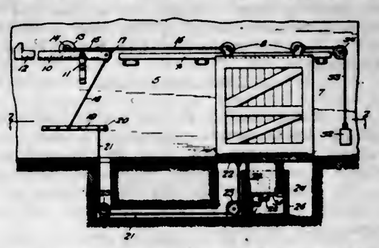
1,347,843. SPOOL-HOLDER. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Feb. 8, 1917, Serial No. 147,296. Divided and this application filed Oct. 30, 1918. Serial No. 260,256. 5 Claims. (Cl. 242—139.)



1. In combination, a spider-frame, means carried thereby for supporting said frame, a socket carried by said frame, a standard adjustable in said socket, and spool-holding and thread-guiding means carried by said standard.

1,347,844. DOOR OPENING AND CLOSING MECHANISM. HOWARD E. DOAN, Joliet, Ill. Filed Mar. 24, 1919. Serial No. 284,554. 8 Claims. (Cl. 268—8.)

1. In mechanism of the kind described a horizontal stationary track, a door supported therefrom and movable thereon, a tiltable arm adjacent said door, a weight on said arm and movable toward and away from the fulcrum thereof, means connecting said weight and door, a yielding member positioned adjacent the doorway adapted to hold said arm in neutral position in which the weight carried thereon will not gravitate, and means

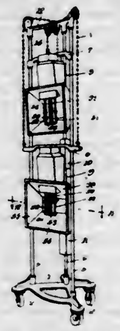


connecting said member to said arm whereby the yielding of said member permits said arm to tilt and gravitate the weight carried by the latter and thereby move the door.

1,347,845. STABLE CASEIN SOLUTION AND PROCESS OF MAKING SAME. HENRY V. DUNHAM, Mount Vernon, N. Y. Filed Mar. 25, 1919. Serial No. 285,078. 10 Claims. (Cl. 134—20.)

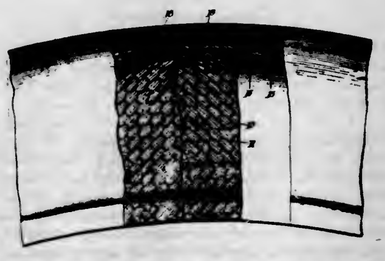
10. A process which comprises dissolving boric acid in hydrofluoric acid solution, adding an alkali to form a salt, adding casein and agitating and heating.

1,347,846. MULTIPLE LAMP. JOSEPH GELB, New York, N. Y. Filed Sept. 29, 1917. Serial No. 193,884. 3 Claims. (Cl. 240—67.)



1. A multiple lamp comprising a portable base and a plurality of uprights connected at their lower ends by said base, a plurality of lamps sliding separately on said uprights and separate counterbalancing means for said lamps for maintaining each of them independently at different elevations.

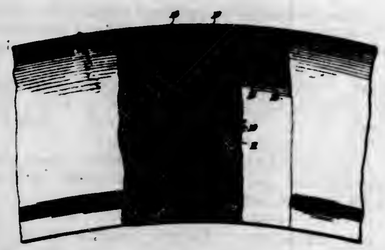
1,347,847. TIRE-CASING. HANS E. GRABAU, Long Island City, and A. CHARLES SCHWARTZ, New York, N. Y.; said Grabau assignor to said Schwartz. Filed Jan. 11, 1918. Serial No. 211,378. 9 Claims. (Cl. 152—13.)



1. A vehicle tire casing including two superposed strips of fabric each strip comprising flat strain resist-

ing strands made up of a plurality of straight threads in superposed layers, said strands being interwoven with spaced relatively wean threads, the strands and latter threads each extending obliquely from bead to bead of the tire and the strands of the two stripe extending in opposite directions.

1,347,848. TIRE-CASING FABRIC AND METHOD OF MAKING THE SAME. HANS E. GRABAU and A CHARLES SCHWARTZ, New York, N. Y.; said Grabau assignor to said Schwartz. Original application filed Jan. 11, 1918, Serial No. 211,378. Divided and this application filed Aug. 1, 1918. Serial No. 247,816. 4 Claims. (Cl. 154—2.)



1. The method of making a dense strip comprising several layers of oblique parallel threads for the carcass of pneumatic tires consisting in interweaving spaced single threads with warps comprising a plurality of parallel threads arranged in superposed layers, impregnating the fabric with rubber, compressing it to flatten it, and cutting the fabric on the bias into strips.

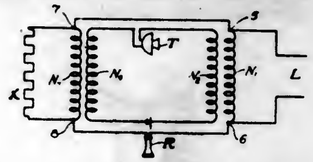
2. A strip of tire casing fabric of a width to extend from bead to bead of a tire and having its longitudinal ends at an angle of substantially 45° to its length comprising a dense sheet of substantially uniform thickness consisting of straight parallel threads arranged in superposed layers extending from side to side of the strip at an angle of substantially 45° to its length and spaced connecting threads extending at an angle of substantially 90° to the first mentioned threads to resist lateral separation of the latter threads in making the tire.

3. A strip of tire casing fabric including flat strands interwoven with undulating cross threads, the strands being substantially quadrangular in cross section and the side of one strand being in contact substantially throughout its surface with a side of the adjacent strand, the strands and cross threads each extending obliquely from edge to edge of the strip.

4. A strip of tire casing fabric including flat strands forming the warp, interwoven with single spaced weft threads undulating under and over the strands, said strands comprising a plurality of substantially straight threads disposed in superposed layers, the side of one strand being in contact with the side of an adjacent strand and the strands and weft threads each extending obliquely from edge to edge of the strip.

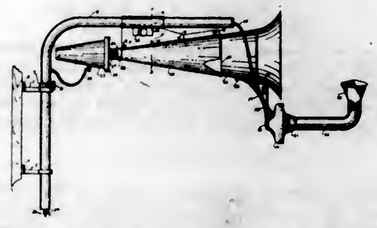
1,347,849. SIGNALING-CIRCUIT. PAUL J. HACKETT, Seattle, Wash., assignor to Universal High-Power Telephone Co., Seattle, Wash. Filed June 21, 1919. Serial No. 305,755. 12 Claims. (Cl. 179—81.)

1. In a two way signaling system, the combination of two transformers each having a plurality of windings, and four component elements consisting, respectively, of a circuit for the transmission and reception of signals, a receiving circuit proper, a balancing circuit proper, and a transmitting circuit, three of said component elements forming a serial circuit, one winding each of said transformers bridging separately two of said component elements in said serial circuit, the remaining fourth component element forming another serial circuit with windings of said transformers, said serial circuit being inductively related to first named serial circuit, said elements being so proportioned and related that the impedance of the combination comprising said first named



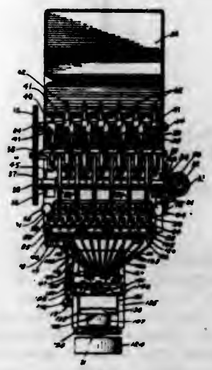
circuit, said receiving circuit proper, said balancing circuit and said transformers, as seen from said transmitting circuit proper, is equal to the impedance of said transmitting circuit proper.

1,347,850. DESPATCHER'S TELEPHONE APPARATUS. PAUL J. HACKETT, Seattle, Wash., assignor to Universal High-Power Telephone Co., Seattle, Wash. Filed July 3, 1919. Serial No. 308,545. 3 Claims. (Cl. 179—151.)



1. In a telephone apparatus of the class described in combination with, a swinging arm and a sound amplifying horn with a receiver connected thereto, a supporting means adapted for supporting said horn and receiver by said swinging arm, said supporting means comprising a split cylindrical sleeve telescoping said arm, a conical sleeve lined with a yielding material and telescoping said horn, a connecting member between said sleeves, and a means for clamping said split cylindrical sleeve to said swinging arm, said supporting means adapting said horn to be rotated about said arm and held at any desired position.

1,347,851. MACHINE FOR CARDING SAFETY-PINS. JOHN FELIX HAEFELE, Bridgeport, Conn. Filed Dec. 2, 1918. Serial No. 264,989. 74 Claims. (Cl. 163—8.)



1. A machine of the character described comprising a hopper in which closed safety pins are placed loosely, a

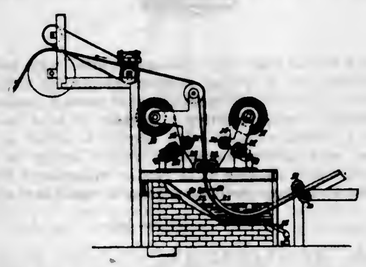
shaft in said hopper, arms extending from the shaft, swinging arms pivoted to said arms, each swinging arm being provided with a hook adapted to pick up pins singly, and pockets into which the pins drop from the hooks.

7. A machine of the character described comprising pockets into which pins are dropped singly, rotating disks having pegs, and vertically moving carriers in the pockets by which the pins are placed in position to be picked up by the pegs.

29. A machine of the character described comprising oscillatory reversing disks having slots which receive pins singly, oscillatory guard plates having slots through which the pins may pass when presented head end first, intermediate connections whereby the guard plates are picked up and carried by the disks, and spring controlled means acting on the guard plates independently of the disks.

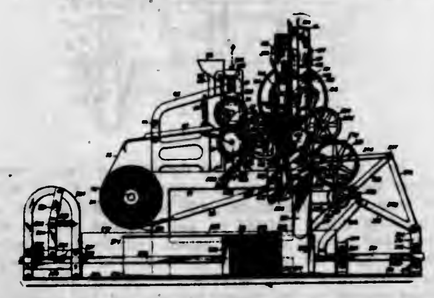
45. A machine of the character described comprising feeding mechanism, means for producing endwise reversal of pins not presented head end first, and means for producing axial reversal of pins presented with the point side out of operative position.

1,347,852. APPARATUS FOR PRODUCING PROTECTED METAL SHEETS HAVING PERFORATED FIBROUS LAYERS. JAMES HAMILL, Lambertville, N. J., assignor to Asbestos Protected Metal Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 9, 1917. Serial No. 167,512. 3 Claims. (Cl. 154—1.)



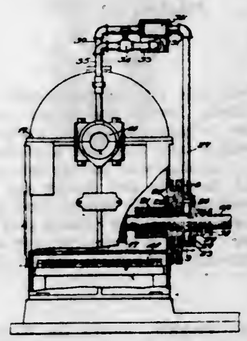
1. Apparatus of the character described, comprising means for coating the surface of a metal sheet with a relatively thick or heavy saturant, a bed roll to support a paper web or sheet, a perforating roll coöperating with the bed roll to perforate the paper web or sheet while the latter is supported by said bed roll, and means for applying said perforated paper web to the coated surface of said metal sheet.

1,347,853. MACHINE FOR MAKING PAPER BOXES. ARTHUR W. HARRIS, Sleepy Eye, Minn. Filed Nov. 27, 1917. Serial No. 204,165. 40 Claims. (Cl. 93—81.)



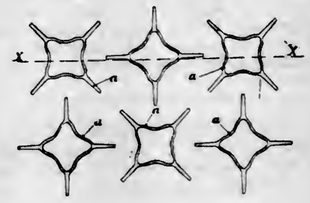
4. In a machine for making paper boxes from an endless web or strip of paper, an intermittently rotating forming device, an intermittently rotating feeding, scoring and lock forming device feeding the strip of paper in the length required for one box to the said forming device, scoring the said strip of paper transversely and providing it with locking members, a tucking device coacting with the said forming device and interlocking the said locking members, a cutting device coacting with the said tucking device to cut off a length of the strip of paper fed forward by the said feeding, scoring and lock forming device at each action thereof, a main shaft, and connecting means connecting the said main shaft with the said devices to actuate the same in the proper sequence.

1,347,854. OILING SYSTEM FOR ELEVATORS. FRANK A. HECHT, Jr., Chicago, Ill. Filed July 3, 1919. Serial No. 308,476. 12 Claims. (Cl. 184—6.)



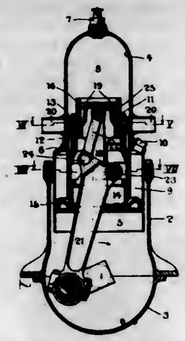
1. In a device of the class described, in combination, a main shaft, a drive shaft, gearing connecting said two shafts, a casing inclosing said gearing, oil in said casing, said drive shaft entering said casing below the oil level and said main shaft entering said casing only above the oil level, and an oil supply system adapted to maintain various pressures of oil at varying points, said system being so arranged that the point where said drive shaft enters said casing is a point of low pressure.

1,347,855. PAVEMENT. EMILE HENRY, Paris, France, assignor to Societe Anonyme Des Hauts-Fourneaux et Fonderies de Pont-A-Mousson, Meurthe et Moselle, France. Filed Apr. 11, 1919. Serial No. 289,239. 2 Claims. (Cl. 94—8.)



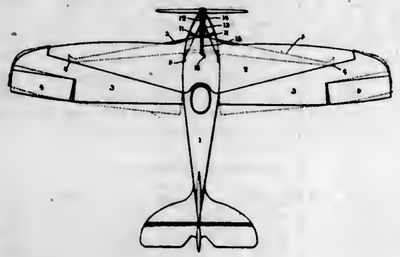
1. A pavement comprising in combination: a foundation, a concrete surface layer on said foundation, and cast iron blocks distant from each other in all of their parts, embedded in said surface layer and extending entirely throughout the same, each block being composed of a thin vertical wall forming a closed figure of an approximately rectangular shape and outer radial arms, the arms on each block extending between the arms of the adjacent blocks.

1,347,856. INTERNAL-COMBUSTION ENGINE. JAMES DE WITT HILL, Scottdale, Pa. Filed Mar. 10, 1919. Serial No. 281,762. 8 Claims. (Cl. 123—47.)



1. In a two cycle internal combustion engine, a two diameter cylinder having gas supply and combustion chambers, and reciprocating coaxial overlapping pistons a supply chamber inlet port, and a combustion chamber exhaust port, a passage way through said pistons opening into the said chambers, and opened and closed by the relative movements of the pistons, one of said pistons serving to open and close the exhaust port, and the other piston serving to draw a charge into the supply chamber and force it through said passage way into the combustion chamber.

1,347,857. AIRPLANE. JAMES DE WITT HILL, Scottdale, Pa. Filed May 9, 1919. Serial No. 295,949. 6 Claims. (Cl. 244—12.)



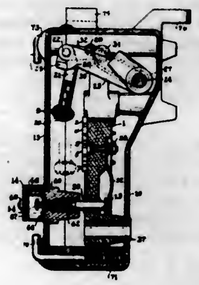
1. In an airplane, wings, each comprising longitudinally disposed fixed and movable overlapping members pivotally connected and having coacting conical bearing surfaces, said movable member being adjustable to different positions relative to the fixed member.

1,347,858. LIQUID-FUEL BURNER. EDWIN E. HILLIKER, East Aurora, N. Y. Filed Aug. 29, 1918, Serial No. 251,881. Renewed June 8, 1920. Serial No. 387,513. 7 Claims. (Cl. 158—69.)



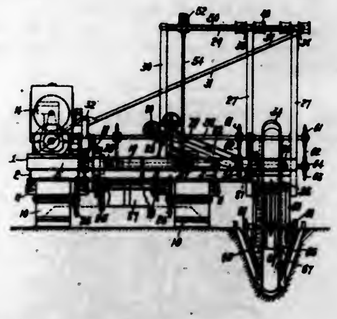
1. A liquid fuel burner comprising a longitudinal mixing chamber having an inlet for liquid fuel and air at one end, two delivery chambers arranged lengthwise on opposite sides of the mixing chamber and communicating at their corresponding ends with the opposite end of the mixing chamber and causing the combustible mixture as it issues from said mixing chamber to divide and move through said delivery chambers in an opposite direction from the path of movement through said mixing chamber, and each of said delivery chambers being provided on its outer longitudinal side with a burning surface, and a U-shaped heating pipe arranged around the mixing and delivery chambers and having parts arranged adjacent to said burning surfaces and having an outlet opening toward said inlet of the mixing chamber.

1,347,859. CIRCUIT-CONTROLLER. ALBERT J. HORTON, White Plains, N. Y. Filed July 15, 1915. Serial No. 40,122. 16 Claims. (Cl. 200—4.)



1. In a circuit controller, the combination with stationary contacts and a contact member adapted to coöperate therewith, of means for operating said contact member in an abutting relation relative to certain of said contacts and in a sliding relation with respect to other of said contacts, said means including a return spring so associated with said member as to render engagement thereof with said stationary contacts dependent upon said spring.

1,347,860. EXCAVATING AND GRADING MACHINE. LEO A. KRUPP, Findlay, Ohio, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio, a Corporation of Ohio. Filed Aug. 18, 1919. Serial No. 318,174. 3 Claims. (Cl. 37—29.)



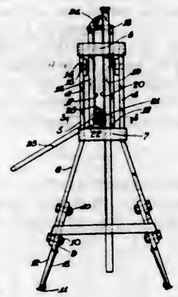
2. In a machine of the class described, a frame, transversely spaced tractor means supporting the frame, with the frame extending at one side beyond said means, an excavating means carried by the extended side of the frame and capable of being raised and lowered relative thereto, means for delivering the digging of said excavating means to a point between the tractor means, and means carried by the frame for leveling and spreading the diggings delivered to the ground between the tractor means.

1,347,861. PACKAGE-FASTENER. WILLIAM D. LA BATT, Chicago, Ill. Filed Feb. 18, 1920. Serial No. 359,657. 9 Claims. (Cl. 24—17.)



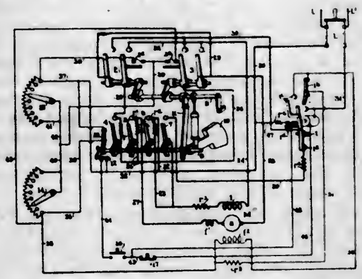
1. A self-contained separable package-fastener of the character described including in combination a pair of sticker-elements adhesive-coated on their back faces for application to the package, and a metal clip detachably securing said elements together and having a flexible end portion overlying the front face of one of said elements and adapted to be bent up to permit disconnection of said elements and normally shielded by a part of the clip, substantially as described.

1,347,862. JACK. WILLIAM T. LEARMONTH, Portage, Wis. Filed Nov. 28, 1919. Serial No. 341,106. 3 Claims. (Cl. 254—95.)



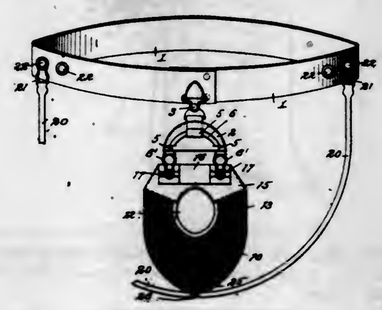
1. In a lifting jack, the combination of a supporting frame, a jack frame carrying trunnions vertically swingingly mounted on the upper portion of said supporting frame and provided with a rack, a lifting bar slidably mounted in said jack frame and provided with a rack, a pinion meshing with both racks, and means swinging with the jack frame to turn said pinion.

1,347,863. MOTOR-CONTROLLER. WILMAR F. LENT, New York, N. Y., assignor to The Cutler-Hammer M'f'g Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 21, 1916. Serial No. 104,841. 1 Claim. (Cl. 172—240.)



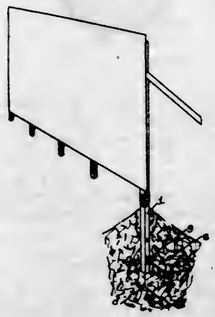
In a controller for an electric motor having a shunt field winding, in combination, an electro-responsive switch responsive to establish power circuits for both the motor armature and shunt field windings and releasable upon failure of voltage to interrupt said circuits, means to increase the resistance of the circuit of said switch after response thereof to increase its sensitiveness to voltage reductions and means controlled by said switch to establish local circuits for the motor armature and shunt field windings upon interruption of their power circuits.

1,347,864. SUSPENSORY. STEPHEN A. MARKER, Newark, N. J. Filed Jan. 3, 1918. Serial No. 210,210. 4 Claims. (Cl. 128—161.)



3. A suspensory comprising a waist band, a sack, crotch straps composed of rubber tubing, and eyelet joining two ends of said tubing and adapted to detachably engage the sack, and clasps retained within the open ends of said tubing for detachably engaging the waistband.

1,347,865. ANCHOR-POST. ALBERT L. MELVIN, Detroit, Mich. Filed Nov. 26, 1915. Serial No. 63,381. 6 Claims. (Cl. 189—29.)

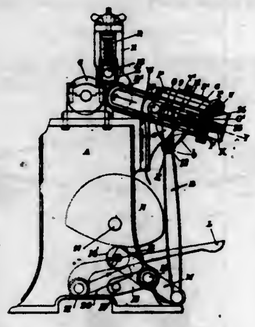


1. An anchor post comprising a body member, a member adapted to engage over one end of the body member, providing a driving point therefor, a bar slidable on the body member to which the driving point member is pivoted, and means whereby the said point is turned on its pivot to anchoring position by downward movement of the bar.

1,347,866. MACHINE FOR TREATING HIDES AND SKINS. DANIEL MERCIER, Annonay, Ardèche, France. Filed Dec. 30, 1919. Serial No. 348,359. 3 Claims. (Cl. 149—16.)

3. A machine for treating hides and skins comprising a working cylinder, a supporting cylinder for the work; means for driving said cylinders, slides in which the ends of the supporting cylinder are respectively journaled, inclined slideways for said slides, means for imparting to said slides a reciprocating movement, abutments for limiting the upward stroke of the slides, screws carrying

said abutments, respectively, two adjusting worms, gears connecting each of said worms to one of the screws, re-



spectively, two sets of indicating means, and gears connecting each of the worms to the corresponding set of indicating means.

1,347,867. MILEAGE OR LIKE TICKET. PHILIP J. MITTEN, Philadelphia, Pa. Filed Nov. 2, 1918. Serial No. 260,843. 5 Claims. (Cl. 206—52.)



1. A mileage or like ticket case comprising a housing having a double cylindrical wall of which the outer part is provided with a window and an exit slot having a bar between them and of which the inner part is spaced inward from the window and bar to present a feed surface and is provided at one end of said surface with an opening into the housing and at the other end of said surface with an inclined slot.

1,347,868. ANIMAL-TAG. SAMUEL R. NICHOLS, Madison, Wis. Filed June 6, 1919. Serial No. 302,332. 2 Claims. (Cl. 40—3.)



2. An animal identification tag comprising a U-shaped member, a tubular shank integral with one of the arms of said member and having its outer surface tapering from the arm to its end and meeting its inner bore to form an annular cutting edge of the same diameter as its bore, said tapered end being insertible through the flesh and through an opening in the other end of the arm against which it is crimped and firmly held.

1,347,869. BITUMINOUS COMPOSITION. RAYMOND G. OSBORNE, Los Angeles, Calif. Filed Oct. 1, 1919. Serial No. 327,772. 6 Claims. (Cl. 106—31.)

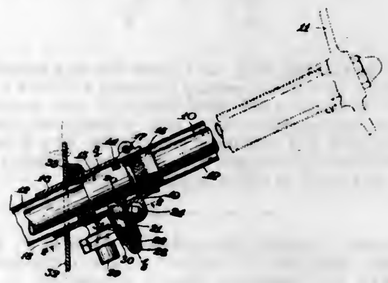


1. A composition of matter comprising a plastic substance impregnated with a gas, and a cementitious substance.

1,347,870. TREATMENT OF COTTON-SEED MEATS. CECIL O. PHILLIPS, New York, N. Y. Filed Aug. 8, 1918. Serial No. 248,146. 2 Claims. (Cl. 87—6.)

1. The method of improving the extraction of oil from cottonseed meats which comprises intimately incorporating with the meats a small amount of a dilute caustic soda solution, the amount of the solution being insufficient to effect neutralization of more than a small fraction of the total fatty acids present, subjecting the resulting meats to a cooking operation, and expressing the oil from the cooked meats; substantially as described.

1,347,871. STEERING-POST LOCK. CHARLES R. PIGGINS and FREDERICK H. PIGGINS, Racine, Wis. Filed Jan. 11, 1919. Serial No. 270,703. 2 Claims. (Cl. 70—90.)

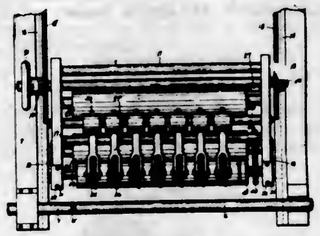


1. In a steering post lock, a casing adapted to surround a steering post, a supporting plate having adjusting pivotal connection therewith, a steering post inclosing tube, means on the casing for clamping the steering post inclosing tube, a steering post sleeve within the casing provided with a recess and having a split tapering threaded end, a nut threaded on the end of the sleeve for clamping it to the steering post, a sliding bolt within the casing adapted to engage the recess of the steering post sleeve, means for sliding the bolt, and a lock for locking the bolt.

1,347,872. SLITTING MECHANISM. WILLIAM A. PRINGLE, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed Dec. 7, 1916. Serial No. 135,585. 6 Claims. (Cl. 164—65.)

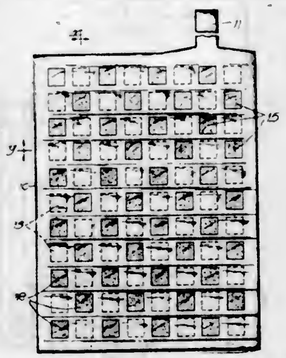
1. In an apparatus of the character described, in combination, a winding shaft, means adapted to drive said shaft to wind material thereon, means displaceable relative to said shaft adapted to slit the material to be wound on said shaft, and means whereby the movement

of the material to be slit operates the slitting means, said last-named means being maintained in driving coöperation with said slitting means during displacement of the slit-



ting means and comprising a roller driven by the material to be slit and adapted to guide said material to the slitting means, said roller being automatically movable toward and from said slitting means.

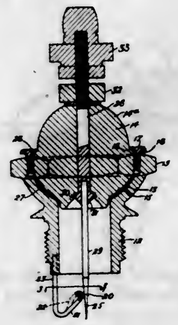
1,347,873. BATTERY-GRID. PAUL B. RABE, Chicago, Ill., assignor to O. K. Giant Battery Co., Gary, Ind., a Corporation of Delaware. Filed Apr. 30, 1919. Serial No. 293,607. 3 Claims. (Cl. 204—29.)



3. A grid plate for storage batteries, having a plurality of grid paste receiving cells of substantially frusto-pyramidal shape formed therein, said cells being arranged in ranks and files and each having its walls tapering to an opening at one of the plate faces, alternate cells in each rank and each file being open on the same side of the plate, the intervening cells of each rank and each file being open at the opposite side of the plate, the common walls for adjacent cells in each rank and each file being of substantially uniform thickness.

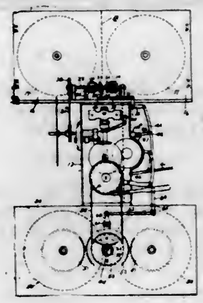
1,347,874. SPARK-PLUG. JAMES E. RICH, Boston, Mass., assignor to The Federal Corporation, Westfield, Mass., a Corporation of Massachusetts. Filed Mar. 5, 1919. Serial No. 280,772. 3 Claims. (Cl. 123—169.)

1. A spark plug comprising a tubular nipple engageable with a combustion chamber wall, and having a grounded electrode composed of a length of wire bent to form a neck constituting the terminal portion of the electrode, arms diverging from the neck, and two substantially parallel legs arranged at an angle to said arms and inserted in the inner end of the nipple, an insulator secured in the nipple, and a conducting electrode extending through and secured to the insulator, and having a terminal portion separated from said neck by a spark gap, the said arms and legs firmly supporting the terminal portion formed by said neck, and the legs being substantially parallel with and equidistant from the conducting electrode, the said neck being substantially parallel with the axis of the conducting



electrode, and its outer portion being reduced to form a salient angle, the apex of which faces the conducting electrode.

1,347,875. MOTION-PICTURE MACHINE. ARTHUR J. RODERICK, Jackman, Me. Filed Mar. 11, 1920. Serial No. 364,891. 10 Claims. (Cl. 88—17.)

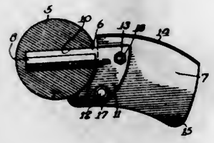


1. An apparatus of the character stated, comprising a motion picture projecting machine, a supply reel box at one end of the machine, having means for loosely supporting two supply reels, two pairs of feed rolls, one pair arranged to coöperate with one of the supply reels, and the other pair with the other supply reel, in delivering a film to the projecting machine, one member of each pair being positively driven, a feed-roll driving mechanism including a driving member, and having manually operable means for connecting the positively driven member of either pair of feed rolls with the driving member, leaving the other pair idle, and for disconnecting the positively driven members of both pairs of feed rolls from the driving member, a take-up reel box at the opposite end of the machine, a pair of take-up reels in said box, reel-driving mechanism including a driving member, separable driving connections between said member and the take-up reels, and manually operable means for connecting either take-up reel with the driving member, leaving the other reel idle, and for disconnecting both reels from the driving member.

1,347,876. PUG-MILL KNIFE. FRED O. RUSH, New Castle, Del., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Oct. 15, 1917. Serial No. 196,688. 6 Claims. (Cl. 83—6.)

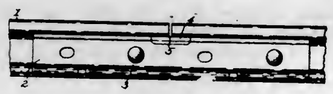
1. A pug mill knife comprising in combination a blade and a separate shank, said shank having an irregular in-

tegrally formed portion for nonrotatively mounting said shank in the mill shaft, and means including a plurality



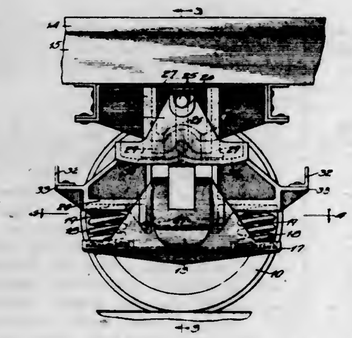
of members arranged at substantially the same distance from the axis of the shaft for securing the blade to the shank.

1,347,877. SPLICE-BAR FOR RAIL-JOINTS. THOMAS E. RUST, Waterloo, Iowa. Filed Feb. 19, 1920. Serial No. 359,976. 4 Claims. (Cl. 238—164.)



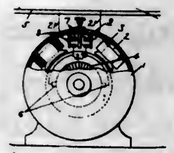
1. A splice bar for alined rails, consisting of a bar of relatively yieldable metal, and a relatively unyielding body united therewith along one edge thereof.

1,347,878. RAILWAY-CAR. VINTON E. SISSON, Chicago, Ill., assignor to Walter P. Murphy, New York, N. Y. Filed Apr. 24, 1919. Serial No. 292,322. 37 Claims. (Cl. 105—165.)



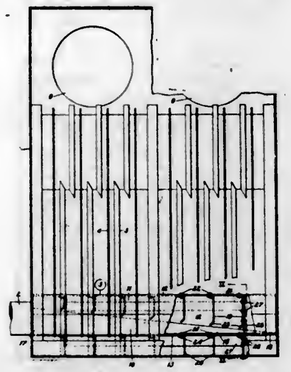
1. In combination with the body, wheels, axle and journal box of a railway car, of a structure for supporting the car body on the journal box comprising a supporting member and a sliding member associated with the box, cushioning means interposed between said members, and means connecting said sliding member to the car body which has capacity for longitudinal and lateral movements.

1,347,879. CONTROL DEVICE FOR EXPLOSION-PROOF ELECTRICAL APPARATUS. CHARLES W. STARKER and CHARLES H. HODGKINS, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 8, 1918. Serial No. 216,105. 4 Claims. (Cl. 172—36.)



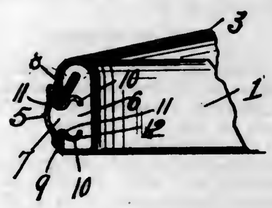
1. The combination with an electric motor comprising a plurality of polar projections and field-magnet windings therefor, of an electric switch located between adjacent polar projections.

1,347,880. CONTROL APPARATUS. CHARLES C. WHITTAKER, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 2, 1916. Serial No. 134,762. 21 Claims. (Cl. 204—1.)



1. A weir for liquid rheostats having longitudinally extending liquid-ejecting means of gradually varying size.

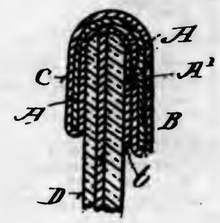
1,347,881. AUTOMOBILE-TOP. JOSEPH VETTER, Toledo, Ohio. Filed Mar. 24, 1919. Serial No. 284,601. 5 Claims. (Cl. 296—135.)



4. In a top of the class described, a frame bow having a longitudinally extending channel in its outer side with the mouth of said channel restricted in width relative to the body portion of the channel, and a clamping strip adapted to be removably fitted into the mouth of said channel to coöperate with the walls thereof to clamp interposed covering material, said strip being formed of

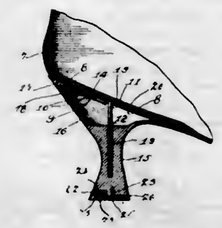
sheet metal of a springy nature and having its opposite side edge portions turned inwardly toward each other and then outwardly to form recesses for receiving the walls of the channel mouth and to form legs with the portions thereof without the recesses of greater normal width than the width of the channel mouth and terminating in inwardly inclined portions to facilitate a forcing of said legs into the channel mouth.

1,347,882. CALENDAR-HEAD. JOHN B. WEBER, Union Hill, N. J., assignor to The Osborne Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 3, 1920. Serial No. 363,030. 4 Claims. (Cl. 40—107.)



2. A calendar head comprising a core of flexible metal, and a covering of paper surrounding the core, the core and covering being folded over together to hold the calendar sheets.

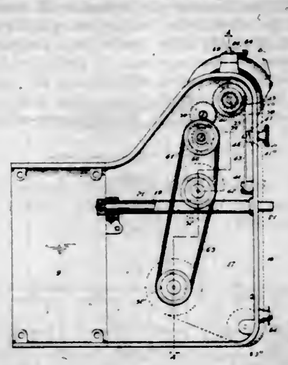
1,347,883. SHOE-HEEL. AUGUST WEDEIN and JOHN PERCY STEVENS, Mason City, Iowa. Filed Feb. 11, 1920. Serial No. 357,993. 3 Claims. (Cl. 36—42.)



1. A shoe comprising a heel having at its upper rear portion within the walls thereof a forwardly extended ledge and with a vertically disposed screw-threaded opening, a plate secured on the lower surface of the heel portion of a shoe and having its rear portion free of the shoe to engage said ledge, another plate located on the inner surface of the heel portion of the insole and having an opening therein to register with the opening in the heel and a screw extended through the opening in the last named plate, the insole and engaging the opening in the heel.

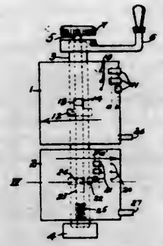
1,347,884. GRAPHIC RECORDING INSTRUMENT. OTIS WHITE, Springfield, and HERBERT W. YOUNG, Chicago, Ill., assignors to Sangamo Electric Company, Springfield, Ill., a Corporation of Illinois. Filed Oct. 14, 1916. Serial No. 125,730. 12 Claims. (Cl. 242—55.)

1. In a graphic recording instrument, a base, a chart-holding frame detachably connected with said base, a motor supported by said base at one side of said chart-holding frame, chart-supporting means carried by said frame, a separable driving connection between said motor and said chart-supporting means, means for locking said chart-holding frame in operative relation to the base, and means associated with said locking means and operated by



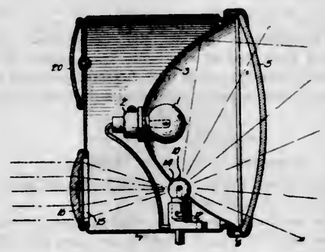
the locking of said frame in operative position for automatically connecting said motor with said chart-supporting means.

1,347,885. CONTROL APPARATUS. THOMAS C. WURTS, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1917. Serial No. 142,642. 13 Claims. (Cl. 200—18.)



3. A control apparatus for electrical systems embodying a plurality of movable contact-carrying members, a shaft loosely associated therewith, and adjustable means for determining which movable member shall be actuated by movement of said shaft.

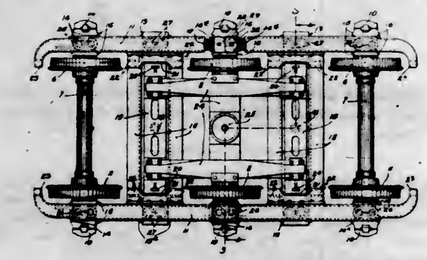
1,347,886. VEHICLE-LAMP. ALBERT L. ARENBERG, Chicago, Ill. Filed Jan. 8, 1920. Serial No. 350,072. 1 Claim. (Cl. 240—46.)



A vehicle lamp having a casing provided with a substantially parabolic reflector adapted to throw the light

rays forward, the reflector having means for supporting the main lamp bulb approximately at the axis of the reflector with the filament approximately at the focus of the reflector, the reflector also having an opening noncentrally located, an auxiliary lamp placed in juxtaposition to said opening whereby the rays may be projected both forward and backward, the casing also having an opening in the back, and a transparent body extending across the opening in the casing substantially directly back of the auxiliary lamp.

1,347,887. CAR-TRUCK. JOHN C. BARBER, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 336,917. 6 Claims. (Cl. 105—196.)



1. In a car truck, the combination with end and intermediate wheels and a truck frame, said intermediate wheels being mounted for lateral movements in respect to the truck frame and end wheels, of a bolster structure carried by said truck frame, and lateral motion devices permitting lateral movements of said bolster structure independently of the lateral movements of said intermediate wheels and in respect to the truck frame.

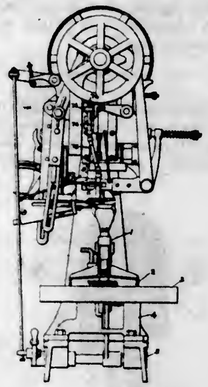
1,347,888. SCHOOLROOM-CHECKER. WALTER L. BISSELL, Cleveland, Ohio. Filed May 7, 1920. Serial No. 379,525. 5 Claims. (Cl. 283—1.)



1. In a school-room checker, the combination of a base or holder; a filler pad of separable transparent sheets secured thereto; and a seating plan inserted beneath a transparent sheet and secured against movement relative to said sheet.

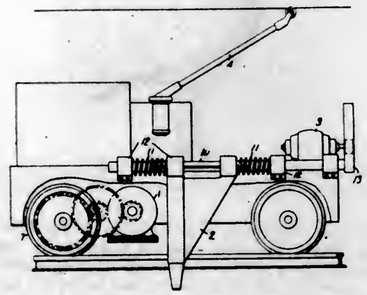
1,347,889. SEWING-MACHINE. CHARLES C. BLAKE, Brookline, Mass. Filed Aug. 8, 1916. Serial No. 113,724. 26 Claims. (Cl. 112—33.)

1. A shoe machine, having, in combination, an operating tool, a shoe support longitudinally movable and rotatable to transfer the point of operation of the tool around the shoe, a tool carrier, and a plurality of feet mounted on the carrier in the same vertical plane as the operating tool arranged to engage the shoe and adapt themselves to the curvature thereof and swing the carrier during the transfer of the tool around the shoe to maintain the tool



substantially normal to the shoe, substantially as described.

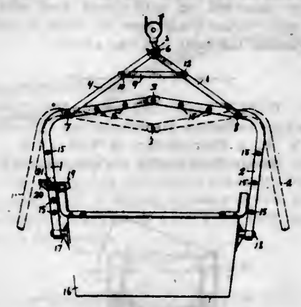
1,347,890. CONTROL SYSTEM. GRAHAM BRIGHT, Wilkinsburg, GEORGE H. F. HOLY, Pittsburgh, and HARRY K. HARDCASTLE, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 12, 1915. Serial No. 61,056. 12 Claims. (Cl. 104—149.)



1. In a control system, the combination with an electric locomotive, and a plurality of extraneous supply-circuit conductors two of which respectively correspond to forward and reverse operation, of means controlled at a distance from the locomotive for operating the same through the medium of said conductors, and means dependent upon the position of the locomotive relative to the respective conductors for automatically stopping the locomotive.

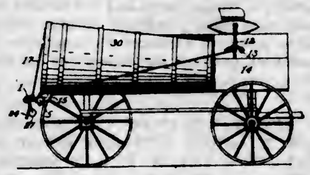
1,347,891. BAIL. EDWARD G. CARR, Milwaukee, Wis., assignor to The Lakewood Engineering Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 7, 1919. Serial No. 288,065. 3 Claims. (Cl. 294—68.)

1. A bail composed of bail arms pivoted together and having their ends bent downwardly, in combination with slings connected with the bail arms at points removed from their pivotal connection, and means for preventing



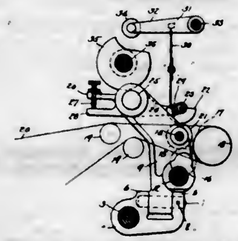
relative movements of the bail arms with respect to each other beyond a predetermined extent.

1,347,892. LIQUID-FERTILIZER DISTRIBUTER. PETER CHRISTIANSEN, Cedar Falls township, Blackhawk county, Iowa. Filed Feb. 13, 1919. Serial No. 276,836. 3 Claims. (Cl. 299—29.)



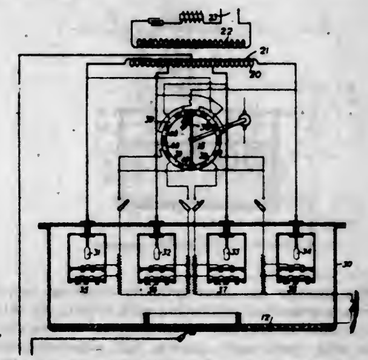
1. In combination, a valve-chamber in communication with a liquid-supply, an elongated conduit with closed ends and having delivery orifices, said conduit being in communication with said valve-chamber and mounted thereon to rock transversely thereof, and means for maintaining said conduit in an adjusted position of equilibrium, consisting of a rod supported on and positioned in spaced relation to said conduit, and a weight adjustably slidably mounted on and releasably secured to said rod.

1,347,893. SHEET-FEEDING MACHINE. CARL E. CHRISTOPHEL, Pearl River, N. Y., assignor to Dexter Folder Company, Pearl River, N. Y., a Corporation of New York. Filed Mar. 14, 1919. Serial No. 282,580. 10 Claims. (Cl. 74—46.)



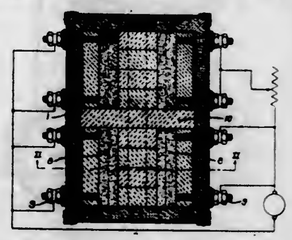
1. In a sheet feeding machine, a feeder frame, sheet feeding means, a sheet calipering device comprising co-operating calipering elements and means for supporting said calipering device from said frame, said supporting means including laterally spaced movable joints whereby said elements are maintained in substantially constant relation to each other and the calipering device as a whole is permitted to adjust its position with respect to said frame.

1,347,894. VACUUM-TYPE INVERTED CONVERTER. LEWIS W. CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 29, 1915. Serial No. 64,154. 12 Claims. (Cl. 175—363.)



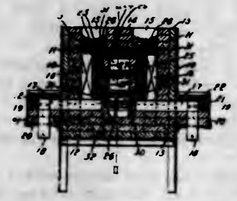
1. The combination with a direct-current supply circuit, of an alternating-current consumption circuit, and a vacuum-type inverted converter interlinking said two circuits, said converter embodying means for approximating a sine wave in the alternating current produced thereby.

1,347,895. ELECTRIC-FURNACE FOR HEATING RIBBONS AND BARS. ORA A. COLBY, Larimer, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1918. Serial No. 254,221. 8 Claims. (Cl. 219—36.)



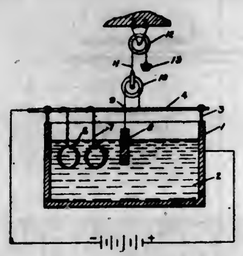
1. In an electric furnace, the combination with a heating chamber, of a resistor forming the roof of said chamber, supporting means associated with said resistor to provide said heating chamber with a rectangular cross-section, said resistor being adapted to be made hotter at one portion than at another.

1,347,896. DOUBLE-HOT-CHAMBER FURNACE. ORA A. COLBY, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 14, 1918. Serial No. 266,713. 20 Claims. (Cl. 204—64.)



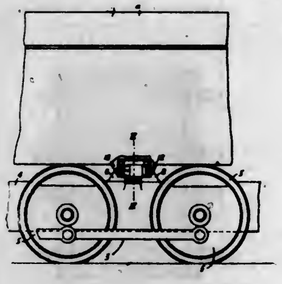
1. In an electric furnace, the combination with two associated heating chambers, of a preheating chamber and resistors for supplying heat to all of said chambers.

1,347,897. ELECTROLYTIC PICKLING PROCESS. JOHN COULSON, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 3, 1917. Serial No. 200,043. 6 Claims. (Cl. 204—7.)



1. The process of electrolytically pickling copper objects which comprises subjecting said objects, as cathodes, to the action of an electric current, to dis-associate the surface oxid upon said objects, and simultaneously recovering the copper which is set free on account of insufficient cohesion.

1,347,898. LOCOMOTIVE. GEORGE M. EATON, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1917. Serial No. 142,634. 11 Claims. (Cl. 105—199.)



1. In a vehicle, the combination with a truck, of a vehicle body mounted thereon, a fixed pin pivotally connecting said truck and body, and means for cushioning relative longitudinal movements of the truck and body to reduce the breaking strains on said fixed pin, said means also tending to maintain said truck and body parallel to one another.

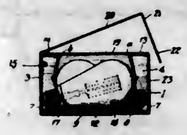
2. In a vehicle, the combination with a truck, of a vehicle body mounted thereon, independent pairs of opposed jaws on opposite sides of the longitudinal center line of said vehicle, and resilient means in the spaces between said jaws for cushioning relative longitudinal movements of said body and truck.

3. In a vehicle, the combination with a truck, of a vehicle body mounted thereon, a fixed center pin pivotally connecting said truck and body, independent pairs of opposed jaws on opposite sides of the longitudinal center line of said vehicle, and resilient means in the spaces between said jaws for cushioning relative longitudinal movements of said body and truck to reduce the breaking strains on said fixed center pin, said means also tending to maintain said body and truck parallel to one another.

4. In a vehicle, the combination with a truck and a cab, of friction-draft gears disposed between the cab and the truck for cushioning longitudinal forces acting between the cab and the truck and for tending to maintain the truck in a position parallel to the cab.

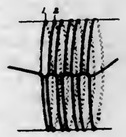
5. In a vehicle, the combination with a truck and a vehicle body, of a friction-draft gear, and projecting jaws respectively mounted on said truck and said body for engaging the friction-draft gear to effect a resilient connection between the body and the truck.

1,347,899. PAPER BOX. HENRY V. EDINGTON, Chicago, Ill., assignor to Sefton Manufacturing Corporation, Millbrook, N. Y., a Corporation of New York. Filed Feb. 6, 1917. Serial No. 146,875. 6 Claims. (Cl. 229—29.)



1. A cardboard container for electric lamps comprising a top and a bottom and opposite side walls, and a section having two opposite flat spacing portions supported adjacent the plane of the top of the container and respectively extending to said side walls and having also an approximately semi-cylindrical spacing and supporting portion forming a closed curve and continuous with said flat portions, said semi-cylindrical portion being formed with opposite openings arranged to constitute seats for the bulb and neck portions respectively of the lamps.

1,347,900. RESISTANCE UNIT. CARL R. ENGLUND, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 18, 1919. Serial No. 290,989. 5 Claims. (Cl. 219—63.)



1. A method of forming a coil which consists in forming a series of closed loops and laying each successive loop on a support in a direction opposite to that of the previous loop and interlocking each successive loop with said previous loop.

1,347,901. RETARDED-DELIVERY DEVICE FOR FOUNTAIN-PENS. WILLIAM T. FITZPATRICK, Waterloo, Iowa. Filed Sept. 8, 1919. Serial No. 322,436. 1 Claim. (Cl. 120—50.)



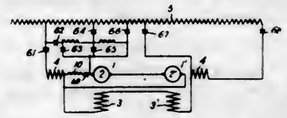
In a fountain-pen, a barrel having an open end, a pen-nib mounted in said open end, and an elongated ink-carrying body also mounted in said open end, below, longitudinal with and contacting with the troughed under face of said pen-nib, and having a raised longitudinal rib medially positioned in said trough, said rib being transversely numerously upwardly dentated along its length leading from the barrel to the anterior part of the pen-nib, the detents obstructively delaying the flow of ink along said trough toward said pen-nib.

1,347,902. SPRINKLING-SPOON. FRIEDRICH GRAFFENBERGER, Milwaukee, Wis. Filed Nov. 8, 1919. Serial No. 336,762. 7 Claims. (Cl. 299—102.)



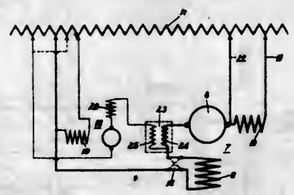
3. A sprinkling spoon comprising a bowl and a cover, one of which is formed with small jet apertures, the cover being formed with a filling opening below the plane of the jet apertures and with a vent opening, and a handle attached to the bowl.

1,347,903. SYSTEM OF CONTROL FOR DYNAMO-ELECTRIC MACHINES. RUDOLF E. HELLMUND, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 4, 1916. Serial No. 76,153. 4 Claims. (Cl. 172—276.)



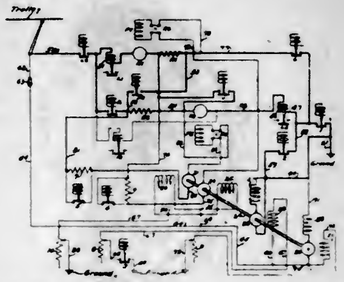
3. The combination with a transformer and an alternating-current commutator motor having an armature, an inducing-field winding and an exciting-field winding, of a resistor, switching means for permanently connecting said inducing and exciting-field windings in series relation across a portion of said transformer, switching means for connecting one terminal of said armature and said resistor to a point intermediate said field windings and for connecting the remaining terminals of said resistor and said armature to an intermediate point of said transformer, switching means for eliminating said resistor from said circuit and for connecting said armature in parallel relation with said inducing-field winding.

1,347,904. REGENERATIVE CONTROL FOR ALTERNATING-CURRENT COMMUTATOR-MOTORS. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 10, 1917. Serial No. 141,612. 10 Claims. (Cl. 172—276.)



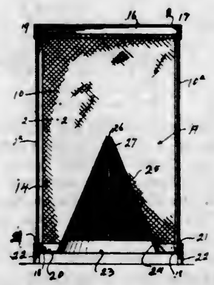
10. The combination with a source of alternating current, of a dynamo-electric machine of the commutator type provided with working windings and an exciting field winding, of means for effecting recuperative operation of said machine comprising means for impressing an auxiliary electromotive force upon said exciting field winding, said electromotive force embodying a component in phase with the electro-motive force of said source and a component out of phase therewith, whereby the inherent series-generator action is modified to effect stable recuperative operation.

1,347,905. SYSTEM OF CONTROL. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 9, 1917. Serial No. 153,549. 7 Claims. (Cl. 172—179.)



1. In a system of control, the combination with a supply circuit, and a plurality of main dynamo-electric machines adapted for both acceleration and regeneration, of an auxiliary "booster set," means for effecting "series-parallel" control of the main machines, and means for connecting one of the booster-set machines in series-circuit relation with the main machines and another in parallel-circuit relation thereto only under conditions of relatively low accelerating or regenerating main-machine speed.

1,347,906. INSECT-TRAP. WILLIAM D. JOHNSON, Oakland, Calif. Filed June 28, 1919. Serial No. 307,381. 3 Claims. (Cl. 43—118.)

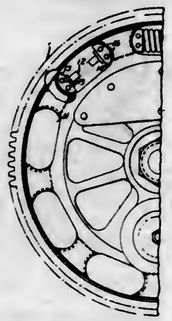


1. An insect trap comprising a cage having a bottom, top and side walls, the side walls being formed of sheets of wire gauze, the adjacent edges of adjacent sheets being detachably engaged with each other, the top being formed with a downwardly extending flange having detachable engagement with the top of the cage, the bottom of the cage being formed of flat sheet metal and having relatively short legs at its corners and having a central opening, and a cone made of a sector-shaped sheet of wire gauze, the side edges of the sheet having interlocking strips attached thereto, each strip at one margin being folded to provide a recess receiving the edges of the wire gauze and at the opposite margin being bent to form a hook, the two hooks being adapted to engage with each other whereby the sheet may be laid flat in packing but whereby the side edges of the sheet may be afterward engaged with each other to form a cone.

1,347,907. DRIVING CONNECTION. GUSTAV L. S. KRONFELD, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 14, 1916. Serial No. 136,885. 12 Claims. (Cl. 74—29.)

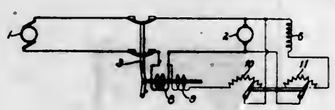
1. In a resilient gear wheel having a hub and a rim member, the combination with springs and spring seats

interposed between said members, said seats having holes therethrough, of a plurality of pins projected through



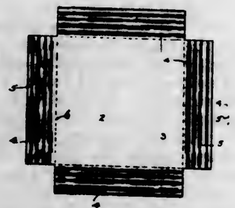
said holes in said spring seats, and turn buckles adapted to engage said pins, when in position, to compress said springs.

1,347,908. AUTOMATIC CIRCUIT-INTERRUPTING DEVICE. ARTHUR DU PASQUIER and JOHN MACKEY LANGHAM SLATER, Hale, England, assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 1, 1916. Serial No. 134,435. 9 Claims. (Cl. 175—294.)



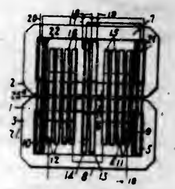
1. In an electrical system, the combination with a translating device having a plurality of windings, of means for controlling the circuit of said device in accordance with the relative values of the currents traversing said windings, said means comprising a movable member and actuating coils therefor in circuit with said windings.

1,347,909. FILLER FOR EGG-CRATES AND THE LIKE. ISIDOR PEARIS, Cleveland, Ohio. Filed Aug. 15, 1919. Serial No. 317,715. 4 Claims. (Cl. 217—35.)



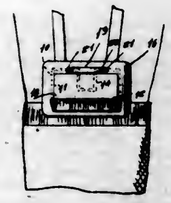
1. A filler for crates comprising a bottom member of substantially plane surface having side walls integral therewith, such side walls being corrugated, the corrugations thereon being parallel to the plane of said bottom member, a sheet of corrugated material attached to the lower surface of said bottom member and a division member adapted to substantially fit within said filler, said division member comprising a plurality of inter-locking strips of corrugated material, the corrugations on such strips being parallel to the plane of said bottom member.

1,347,910. TRANSFORMER FOR USE WITH ROTARY CONVERTERS. JOHN F. PETERS, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 29, 1915. Serial No. 24,742. 5 Claims. (Cl. 175—356.)



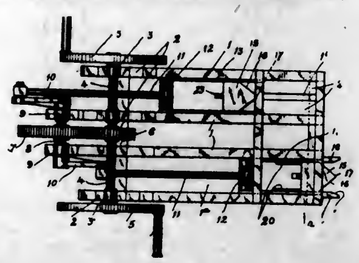
1. In a transformer, a core member, groups of sectioned high and low-tension coils inductively related thereto, means associated with at least one of said groups for increasing the reactance thereof, and means for connecting only those groups in circuit which are free from the reactance-increasing means during one period of operation and for connecting all of the coil groups in circuit during another period of operation.

1,347,911. GARMENT-SUPPORTER. HENRY J. REED, Seattle, Wash. Filed Nov. 8, 1918. Serial No. 261,664. 6 Claims. (Cl. 24—245.)



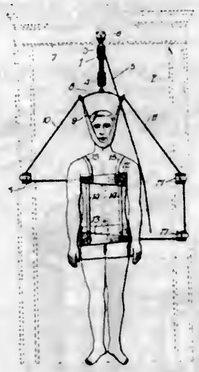
3. A garment supporter, including a supported garment engaging bar, a plate provided with a longitudinal slot to receive the bar and one edge of the garment to be supported, and a member engageable behind the bar to retain the latter in position in the slot in clamped engagement with the garment.

1,347,912. DEVICE FOR SHEARING AND CUTTING METALS. GEORGE ARCHIBALD RICHARDSON, Somerset, and AMÉDÉE MERCIER, Worthing, England; said Mercier assignor to said Richardson. Filed Aug. 11, 1919. Serial No. 316,839. 4 Claims. (Cl. 164—10.6.)



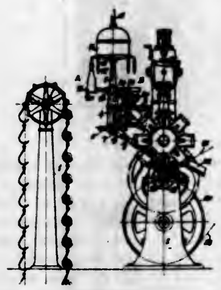
1. An apparatus for shearing or cutting metals comprising a frame, and a reciprocating frame carrying an angled edged cutting knife within the frame, said reciprocating frame having extensions constituting a support for the article to be cut, means for reciprocating the angled edged knife frame, and guides or brackets for supporting the vessel or article to be cut.

1,347,913. APPARATUS FOR RECTIFYING SPINAL DEFORMITIES. HAROLD J. RINK, Chicago, Ill. Filed Dec. 24, 1919. Serial No. 347,053. 7 Claims. (Cl. 128—75.)



1. An apparatus of the class described, comprising mechanism adapted for attachment to an extremity of the body and to be used for exerting a pull on the spine in a longitudinal direction, and means adapted for attachment to the body adjacent to one extremity of the spine and to be used for exerting a pull on said spine in a transverse direction, said mechanism and means being arranged so as to be manipulated in unison.

1,347,914. TAPPING APPARATUS. ANDERS ANDERSSON ROSENGREN, Malmö, Sweden. Filed Dec. 5, 1919. Serial No. 342,860. 3 Claims. (Cl. 226—75.)



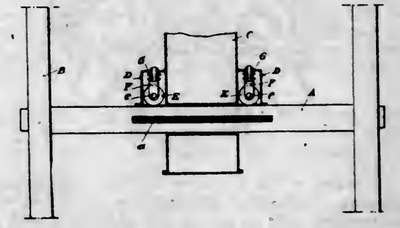
1. A filling apparatus for use in connection with capsuling or sealing machines including a main support, a vertical shaft journaled therein, a liquid containing receptacle mounted on the upper end of the shaft, valve controlled filling tubes extending from the receptacle, a bottle support connected to the shaft beneath the receptacle including a circle of bottle receivers, normally closed flaps swingably connected to the lower edge of each bottle receiver, stationary means for successively releasing the flaps during rotation of the bottle supports, means for receiving the bottles when released, and means engaged with the released flaps for returning the flaps to a closed position.

1,347,915. HAIR FOUNDATION. ROBERT SCHRANBLUM and GRACE SCHRANBLUM, Danbury, Conn. Filed Mar. 30, 1920. Serial No. 369,911. 3 Claims. (Cl. 132—23.)



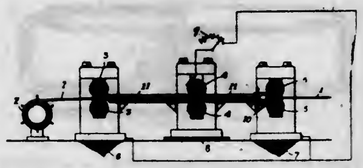
1. A hair foundation comprising a base of elliptical formation, and a central support secured to the base at the pointed ends thereof and extending entirely across said base, said central support being of a curved formation and projecting a material distance above the base.

1,347,916. ELASTIC SUSPENSION FOR WHEELED GUN-CARRIAGES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Joint-Stock Company of France. Filed Feb. 28, 1920. Serial No. 362,118. 12 Claims. (Cl. 89—40.)



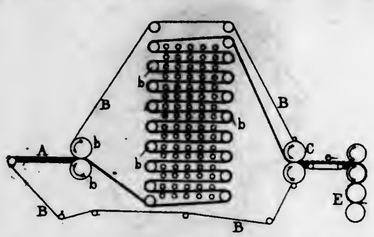
1. The combination of a wheeled axle, a vertically movable gun carriage slidable along the wheeled axle for training the gun, a connection between the wheeled axle and the gun carriage including a suspension spring to carry the load of the gun carriage during transport, and means apart from the suspension spring to transmit the load of the gun carriage to the wheeled axle during firing.

1,347,917. METHOD OF AND APPARATUS FOR ROLLING METAL. JOHN W. SHEPERDSON, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 10, 1918. Serial No. 244,181. 7 Claims. (Cl. 80—2.)



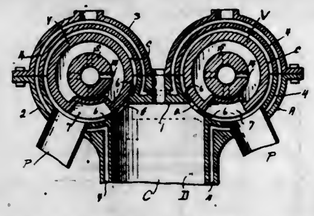
1. The herein described method of rolling metal, which consists in forwarding the metal continuously to a reducing pass, and passing an electric current therethrough in opposite directions while in transit.

1,347,918. METHOD OF MANUFACTURING JOINTING MATERIALS. ARTHUR EDWARD STAFFORD, Rochdale, England, assignor to Potter's Asbestos Company Limited, Rochdale, Lancaster, England. Filed Nov. 27, 1918. Serial No. 264,433. 4 Claims. (Cl. 154—2.)



1. The method of manufacturing jointing material in long or continuous lengths which consists in mixing or preparing the composition of rubber and asbestos, feeding the soft plastic mass between two endless conveyer sheets or blankets, carrying it by such sheets over drying chests or plates and between consolidating rolls, stripping it from the conveyer sheets and finally calendering it substantially as described.

1,347,919. INTERNAL-COMBUSTION ENGINE. FREMONT STOKES, Clarksville, Ark. Filed Feb. 10, 1919. Serial No. 275,950. 3 Claims. (Cl. 123—80.)



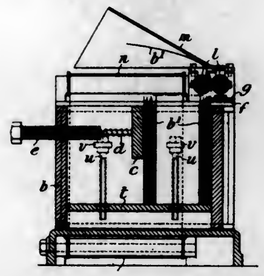
1. An engine of the character described comprising, in combination, a cylinder, a substantially cylindrical valve casing provided with a port in communication with the cylinder, said casing being provided with an inwardly directed lip defining the port, said casing being provided with a second port, a rotary valve mounted within the casing and substantially contacting with the inwardly directed lip, said valve being surrounded by a chamber in communication with the second port, said valve being provided with a by-pass of a length in excess of the space between the ports of the casing and of a length in excess of the outside major circumferential extent of the lip.

1,347,920. HYDROCARBON-BURNER. JOSEPH J. ST. WABA, Houston, Tex. Filed Dec. 19, 1919. Serial No. 345,977. 4 Claims. (Cl. 158—71.)



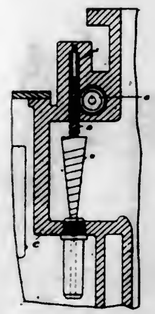
4. A hydrocarbon burner comprising an elongated reservoir, a spherical retort positioned immediately below and communicating with said reservoir, the diameter of the retort being considerably less than the length of the reservoir whereby the bottom of the reservoir is exposed throughout practically its entire length, pipes leading from the ends of the reservoir and having orifices in their outer ends, said outer ends of the pipes being so positioned with respect to the retort and reservoir that flames issuing from said orifices will impinge against said reservoir and retort, and a base for supporting the retort and reservoir, said base having a concave upper surface and a duct therein through which hydrocarbon is supplied to the retort.

1,347,921. SORTING INTO LENGTHS OR DRAGGING BRISTLES, HAIR, AND THE LIKE. ALBERT HENRY TIMMIS, Harrow, England. Filed Feb. 4, 1919. Serial No. 274,920. 5 Claims. (Cl. 15—45.)



1. The method of sorting bristles and the like into lengths, consisting in arranging the bristles to be sorted into a bundle, beating the said bristles solid on the flag ends and in then subjecting the butt ends of projecting bristels to alternate pressure on opposite sides for raising those bristles from the bundle.

1,347,922. CARBURETER NEEDLE-VALVE. VICTOR E. WASSERLEIN, New York, N. Y., assignor to Wasserlein, Frocs Company, Inc., a Corporation of New York. Filed Oct. 2, 1917. Serial No. 194,410. 7 Claims. (Cl. 251—162.)

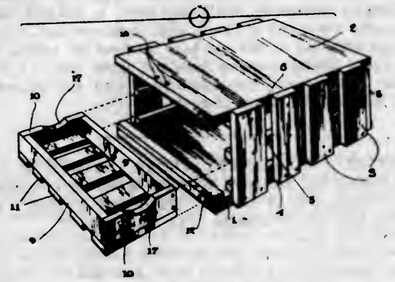


3. A valve comprising a pin, a helix arranged about said pin having the inner convolution thereof secured to one end of said pin, and said helix being longitudinally adjustable with respect to said pin for regulating the operation of said valve.

1,347,923. CRATE. WILLIAM DOUGLAS WOODRUFF, Belton, Tex. Filed Feb. 11, 1920. Serial No. 357,945. 3 Claims. (Cl. 217—40.)

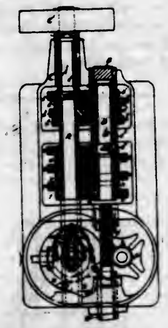
1. A crate of the character specified consisting of a top and a bottom plate, and strips spaced apart from each other connecting the top and the bottom plates, said top and bottom plates being extended beyond the strips

at their ends, an end plate arranged between the top and bottom at one end, and a removable end at the other end, said removable end comprising a plate adapted to rest at its lower edge on the bottom, the bottom having a cleat fitting outside of the end and said end having cleats en-



gaging outside of the side strips when the end is in place, a strip arranged transversely of the top of the end on the outer face, said strip and the top having openings for receiving fastening means, and the crate having upper and lower series of guides for receiving trays, and trays on the guides.

1,347,924. SPEED-CHANGE GEAR. ISAAC H. WRIGHT, Salford, England, assignor to Smith and Coventry Limited, Salford, England. Filed June 25, 1917. Serial No. 176,858. 3 Claims. (Cl. 74—59.)

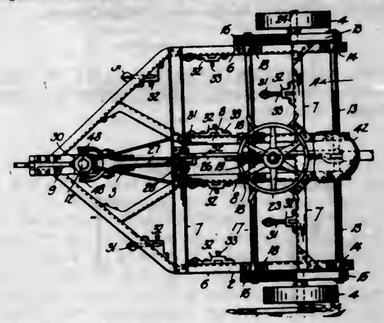


1. A variable change speed gearing comprising a longitudinally shiftable drive shaft, a sleeve with which one end of the said drive shaft engages, a plurality of pinions of different diameters loosely mounted on the drive shaft, the shaft also having means to successively engage and operatively connect the pinions thereto, a longitudinally shiftable driven shaft, a sleeve on the latter shaft and having a key recess, a key device carried by the said driven shaft and adapted to be engaged with said recess of the sleeve by a shifting movement of the latter shaft, and a plurality of pinions of different diameters mounted on the sleeve of the driven shaft and corresponding to the pinions on the drive shaft with which they are adapted to gear.

1,347,925. [WITHDRAWN.]

1,347,926. CULTIVATOR. CHARLES M. ANDERSEN, Denver, Colo. Filed Mar. 14, 1918. Serial No. 222,393. 4 Claims. (Cl. 97—34.)

1. A cultivator of the class described including a frame, a transverse shaft extending across the frame at the back thereof, toothed segments connected to the ends of the shaft and located at opposite sides of the frame exteriorly thereof and provided with spindles, traction wheels mounted on the spindles, a front centrally arranged guide wheel, a vertically movable shaft carrying the guide wheel, a lever connection for connecting the



vertically movable shaft with the transverse shaft for simultaneously raising or lowering the traction wheels when the transverse shaft is partially rotated, a drive shaft having pinions meshing with the toothed segments, an operating shaft, gearing for connecting the operating shaft with the drive shaft.

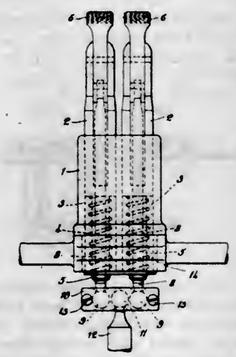
1,347,927. BRONZE POWDER AND THE PROCESS OF MAKING SAME. MAX BAER, New York, N. Y. Filed Jan. 20, 1919. Serial No. 271,974. 2 Claims. (Cl. 83—91.)

1. The process herein set forth for the making of bronze powders, which consists in cooling fluid metal in the presence of water for rendering it porous and subjecting it to a continued hammering in the presence of a liquid fat or oil, until a fluffy or flocculent powder results.

1,347,928. BRONZE POWDER. MAX BAER, New York, N. Y. Original application filed Jan. 20, 1919, Serial No. 271,974. Divided and this application filed Feb. 9, 1920. Serial No. 357,340. 6 Claims. (Cl. 134—76.)

6. A bronze powder made of metal granulated in the presence of water, and hammered to powdered form.

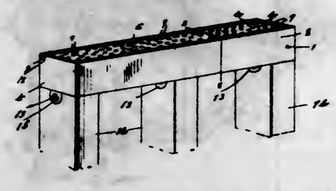
1,347,929. PULLING-OVER AND LIKE MACHINE. CHARLES MARTIN BAGSHAW, Leicester, England, assignor to The Gimson Shoe Machinery Company Limited, Leicester, England, a Corporation of Great Britain. Filed Nov. 1, 1919. Serial No. 335,010. 4 Claims. (Cl. 12—11.1.)



1. For a pulling-over machine, a pincer mechanism comprising two pincer devices, a carrier common to said

devices, and capable of rotary adjustment, said devices being capable of individual rotary adjustment within said carrier for the purpose of varying the angular relationship of the gripping jaws of said devices, an actuating member common to the two pincer devices, and a balancing member through which the pulling strain is transmitted from the actuating member to the two pincer devices.

1,347,930. ANTIVERMIN-PERCH. MARY F. BEEBE, Carthage, Ill. Filed Apr. 4, 1919. Serial No. 287,520. 1 Claim. (Cl. 119—25.)



A poultry roost comprising an elongated substantially rectangular open receptacle having the inner surface of its upper edge rabbeted, a perforated cover adapted to rest on the shoulders, formed by said rabbeted portion, outwardly extending ears formed on the side edges of the cover at the rear edge thereof extending in direct alinement with the rear edge, one of said ears being longer than the other, the cover having inwardly extending slots formed therein adjacent the relatively long ear being formed relatively longer than the other slot, the end walls of the receptacle being provided with openings to receive the same, as and for the purpose specified.

1,347,931. TUBE-COMPRESSOR. JOHN J. BOWEN, Jr., Pensacola, Fla. Filed Aug. 15, 1919. Serial No. 317,773. 2 Claims. (Cl. 251—5.)



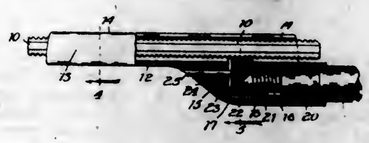
2. A device of the character specified, comprising a pair of gripping jaws spring pressed away from each other, means in connection with the jaws for clamping said jaws against movement away from each other, one of said jaws having an auxiliary gripping member adjustable toward and from the other jaw.

1,347,932. MEANS FOR AND PROCESS OF FILTERING PETROLEUM PRODUCTS. LEVI M. BOWMAN, Tulsa, Okla., assignor of one-half to W. A. Smith, Tulsa, Okla. Filed Sept. 25, 1918. Serial No. 255,662. 2 Claims. (Cl. 210—62.)



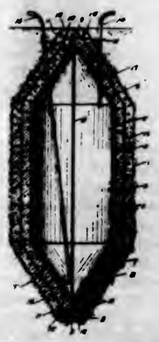
1. An oil filter comprising a rectangular frame formed of pipe sections constituting end bars and side bars communicating with the end bars, the frame being horizontally disposed, an oil supply pipe having communication with one side and one end bar, an oil discharge pipe having communication with the other side and end bars, a set of valves for each end bar positioned in spaced relation therein, a plurality of filtering chambers positioned vertically within the frame and each having an open ended tubular body, caps removably connected with the upper and lower ends of the body, conduits establishing communication between the ends of said filtering chambers arranged so as to connect the chambers in series and releasably connected with the caps, a conduit leading from the lower end of one of said chambers and communicating with one of the end bars between the valves thereof, and a conduit leading from the upper end of a second filter chamber and communicating with the second end bar between the valves thereof.

1,347,933. VETERINARY FLOAT. HAROLD M. BRIX, Chicago, Ill., assignor to Sharp & Smith, Chicago, Ill., a Corporation of Illinois. Filed Apr. 3, 1920. Serial No. 371,158. 2 Claims. (Cl. 32—35.)



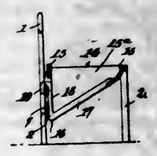
1. In a veterinary float, a rasp section, a holder therefor, said holder comprising a back and provided with members overhanging the front of the rasp section and adapted to engage its upper surface, a handle for said holder, a pin loosely mounted in the back portion of the handle, and means operable on rotation of the handle in one direction to force said pin against the lower section of the rasp section and thereby wedge the latter against the overhanding members of the holder and when rotated in the opposite direction to permit the pin to fall out of contact with said rasp section.

1,347,934. AIR OR WATER PRESSURE TANK. JOSEPH F. BROWN, Wichita, Kans. Filed Oct. 1, 1919. Serial No. 327,809. 2 Claims. (Cl. 72—14.)



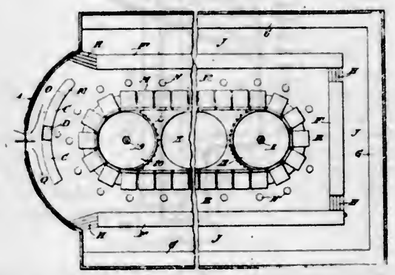
1. A tank comprising a lining constructed of comparatively thin material and having each end closed, an inlet pipe having communication with the interior of the lining, a rod extending approximately along the major axis of the tank and through said lining, a strainer carried by said rod adjacent its lower end, an outlet pipe having one end disposed within said strainer and its other end extending outwardly through the lining, a composition of material surrounding said lining, reinforcing means within the composition of material and having connection with the rod.

1,347,935. COMBINATION ANDIRON-GRATE. JOHN R. CAMPBELL, Sanford, N. C. Filed July 11, 1917. Serial No. 179,919. 2 Claims. (Cl. 126—298.)



1. A device of the class described, comprising standards having an outstanding lug upon their rear face; a bar having upper and lower fingers at its ends, the fingers being received in the lug, the lower edge of the upper fingers being smooth, and the lower edge of the lower fingers having spaced seats in any of which the lower portion of the lug may be received for adjustment; and a fuel support detachably engaged with the bar.

1,347,936. STORE SELF-SERVICE SYSTEM. JAMES H. CARROLL, Atlanta, Ga., assignor to Liberty Self Service Corporation, Charlotte, N. C., a Corporation of North Carolina. Filed July 19, 1919. Serial No. 312,006. 6 Claims. (Cl. 186—1.)



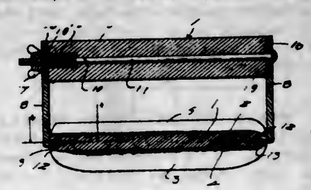
1. In a self-service store, the combination of an entrance and exit device for admitting customers in single file, a cashier's desk in proximity to said entrance, series of stationary shelves adapted to carry goods available to the selection of the customer, a supervisor's platform at the center of the store, an endless conveyer carrying display racks, said endless conveyer inclosing the supervisor's platform, stools arranged opposite the consecutive display racks carried by the endless conveyer, and means for operating the endless conveyer.

1,347,937. VEHICLE-GUARD. ROBERT S. CLARY, Greensboro, N. C. Filed Jan. 26, 1920. Serial No. 354,095. 10 Claims. (Cl. 293—55.)



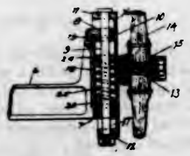
1. A guard for vehicles comprising front and rear transverse bumpers resiliently secured thereto, and parallel side-guards pivoted to the bumpers and extending inwardly therefrom in close proximity to the wheels and detachably secured at their free ends to the sides of the vehicle.

1,347,938. CONCRETE EDGING AND MARKING TOOL. HARRY F. CONNELLY, Macomb, Ill. Filed Sept. 16, 1919. Serial No. 324,092. 3 Claims. (Cl. 72—138.)



3. A cement finishing tool comprising a pair of arms, a body mounted in said arms and carrying cement finishing tools on its faces, a hand grip spacing apart said arms, means for connecting said hand grip and said arms, means carried by one of said arms for engagement with said body to retain the latter in one position within said arms, means carried by the connecting means for said hand grip and said arms to retain said arms in rigid position, and means for forcing apart said arms when released.

1,347,939. AUTOMOBILE SHOCK-ABSORBER. JAMES V. DAWSON, Oskaloosa, Iowa, assignor of one-half to James L. Mitchell, What Cheer, Iowa. Filed July 23, 1919. Serial No. 312,753. 2 Claims. (Cl. 280—96.2.)



1. In combination with an automobile axle having a yoke on the end thereof, a stud slidably mounted within said yoke, a housing fixedly engaging said stud, a spindle integrally attached to said housing, a second housing internally engaging said first-mentioned housing and slidably engaging said stud within said axle yoke, helical springs within said second housing, lugs integral with said outer housing engaging one end of said springs, an additional spring surrounding a portion of said stud and engaging said second housing and a lug on said first housing, and means for rotating said housings with said stud, substantially as and for the purpose described.

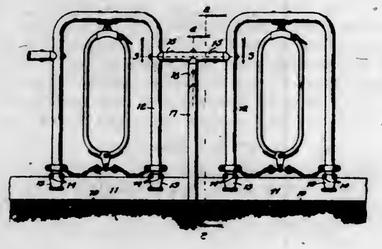
1,347,940. TREATMENT OF PEAT FOR FUEL AND APPARATUS THEREFOR. KENNETH ESSEX EDGEWORTH, Dublin, Ireland. Filed Sept. 12, 1918. Serial No. 253,847. 1 Claim. (Cl. 44—33.)



A method of extracting moisture from wet carbonized peat consisting in introducing the wet carbonized peat at

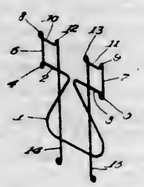
a temperature above 100° C. under pressure sufficient to prevent the formation of steam therein into a container having a moisture outlet, exerting pressure on the peat to force moisture through said outlet, and suddenly releasing the pressure in the container, whereby steam is generated in the mass of filtered peat to cause disintegration of the same.

1,347,941. STALL CONSTRUCTION. HENRY L. FERRIS, Harvard, Ill., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill., a Corporation of Illinois. Filed Feb. 16, 1920. Serial No. 359,070. 2 Claims. (Cl. 119—27.)



1. In an animal stall, in combination, a floor, a single vertical member secured to the floor, a transverse member mounted on the upper end of said vertical member, a partition member secured to the floor and to said vertical member, and stall-front forming members secured to said transverse member and said floor.

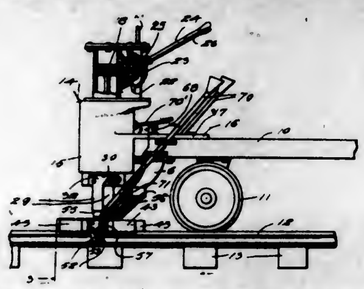
1,347,942. INDEX-CLIP. ARTHUR J. FORWARD, Ottawa, Ontario, Canada. Filed Sept. 22, 1917. Serial No. 192,758. 4 Claims. (Cl. 40—11.)



1. A clip having a card embracing portion and a sheet clamping portion so related as to hold the card and sheet in abutting relation in substantially the same plane, the clip being formed of a single piece of wire, one member of said clamping portion consisting of a loop whose end portions are curved to form card embracing portions, the free ends of such end portions extending downwardly to form a clamping member adapted to coöperate with the loop-clamping member, said free ends being adapted to be brought over the loop clamping member.

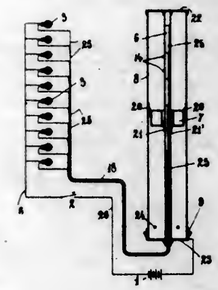
1,347,943. RAILROAD SPIKING-MACHINE. HOMER C. FORSITH, Waldo, Fla. Filed May 16, 1919. Serial No. 297,530. 26 Claims. (Cl. 104—17.)

1. A spiking machine including guiding elements, a cylinder carried by the guiding elements, means to support said guiding elements and cylinder, a head disposed between said guiding elements and having connection with



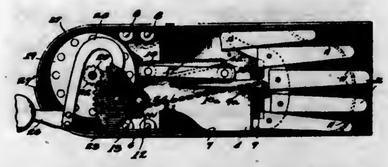
said cylinder, and hammers carried by said head and adapted for driving spikes on opposite sides of a rail simultaneously.

1,347,944. APPARATUS FOR INDICATING THE LEVEL OF LIQUIDS AT DISTANCE. PIETRO GERVASONI and ALFREDO ZECCHINI, Turin, Italy, assignors to Giuseppe Ratti, Turin, Italy. Filed June 14, 1919. Serial No. 304,258. 4 Claims. (Cl. 200—84.)



1. A float-operated circuit controlling device for electric level indicators comprising a tubular body communicating with the tank containing the liquid the level of which is to be indicated and having an inner surface of material conductive of electricity; a bar mounted in said tubular body and carrying a plurality of separate sleeves said sleeves being conductive of electricity and being insulated from each other; and a float in said tubular body encircling said bar, said float having contact with said tubular body and with the separate sleeves carried by said bar to electrically bridge the inner surface of the tubular body and the separate sleeves carried by said bar.

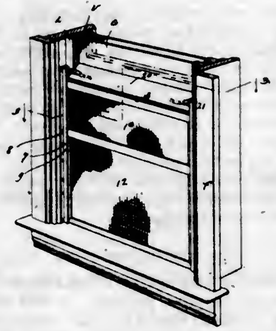
1,347,945. SIGNAL FOR MOTOR-VEHICLES. EUCLID P. GOODCHILD, Spokane, Wash. Filed Jan. 16, 1920. Serial No. 351,849. 5 Claims. (Cl. 116—50.)



1. A device of the character specified, comprising a casing having one end open, a plate mounted to move longitudinally of the casing toward and from the open end, a bar mounted to move on the plate and carrying a series of fingers, the plate having guiding means for the

fingers to extend the same laterally when they are extended longitudinally beyond the plate, normally active means for moving the bar toward the open end of the casing, normally active means for moving the plate toward the open end of the casing, and manually controlled means for returning the parts to normal position, said manually controlled means comprising a gear segment having a handle for swinging the same, a drum having a pinion engaged by the gear segment, a flexible member winding on the drum at one end and connected with the bar at the other end.

1,347,946. WINDOW-SCREEN. JACOB JOSEPH GREENWALD, Sheboygan, Wis. Filed Aug. 30, 1919. Serial No. 320,803. 3 Claims. (Cl. 156—14.)



3. The herein described fly-guard structure for window screens, the same comprising a frame section adapted to be mounted in the screen guides above the screen proper, a lip held at its lower edge within said section and adapted to be deflected out of the plane of the screen, and yielding means for holding it so deflected with its free edge in contact with the glass of the adjacent sash.

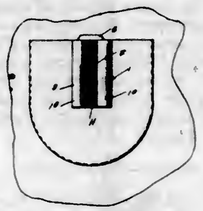
1,347,947. ARTIFICIAL LIMB. ELBRIDGE G. HADEN, Charlottesville, Va. Filed Mar. 25, 1919. Serial No. 285,066. 13 Claims. (Cl. 3—2.)



1. A framework for an artificial leg and foot comprising a foot proper, a bottom or sole secured thereto with one end protruding beyond the foot proper, front, rear and side strips connected with the foot; the extreme lower end of the front strip in position to reinforce the protruding end of the sole.

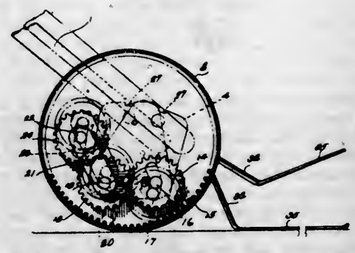
1,347,948. MATCH-SCRATCHER. WILLIAM PENN HALL, Cedar Falls, N. C. Filed Aug. 15, 1919. Serial No. 317,807. 1 Claim. (Cl. 51—20.)

A match scratcher comprising a plate having one face thereof roughened, a depending resilient arm formed on the upper edge of the plate, a guide member detachably associated with said plate including a body member, an inwardly projecting overlying resilient dog formed on each longitudinal edge of said member and arranged to



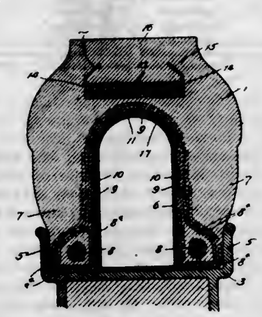
engage the roughened face of the plate to hold the guide member against accidental displacement and to guide the head of the match during the scratching movement thereof, as and for the purpose specified.

1,347,949. CARPET-BEATER. JOHN E. HANSON, St. Paul, Minn. Filed Oct. 10, 1918. Serial No. 257,611. 5 Claims. (Cl. 15—8.)



2. In a carpet beater, the combination, of a plurality of pivotally mounted beating elements, supporting wheels, a crank shaft, and means operatively connecting said supporting wheels through said crank shaft for rotating the crank shaft in a uniform direction upon rotation of said supporting wheels in either a forward or backward direction, and means for locking said motion transmitting means in a neutral position to permit rotation of said wheels without imparting rotation to said crank shaft.

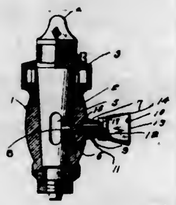
1,347,950. PNEUMATIC TIRE. GEORGE HOFMANN, Chicago, Ill., assignor to Hofmann-Morgan Rubber Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1917. Serial No. 148,310. 3 Claims. (Cl. 152—10.)



3. A pneumatic tire comprising a casing containing a comparatively narrow vertically elongated channel, rein-

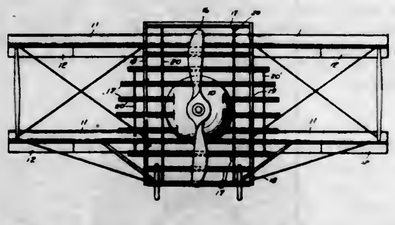
forcing material in the walls of the casing extending circumferentially thereof and surrounding said channel, the said reinforcement being of relatively greater thickness adjacent the sides of the channel and of diminishing thickness adjacent the tread end thereof, and a second reinforcement in the casing closely adjacent that portion of said first reinforcement surrounding the tread end of said channel and comprising a plurality of layers with certain layers thereof having their free edges turned at an angle to the others to form annular ring portions inclosing the edges of the other layers of such reinforcement, and a traction surface on said casing of a width not less than the width of said channel.

1,347,951. STOP AND WASTE COCK PLUG. HENRY C. HORMANN, Louisville, Ky. Filed Dec. 27, 1918. Serial No. 268,441. 1 Claim. (Cl. 251—43.)



A device of the character set forth including a body of a valve having a laterally extending draining nipple provided with internal screw threads, a screw threaded shank threaded into said nipple, a valve seat formed within the nipple, a pointed end formed on said shank and adapted to engage the valve seat, an annular collar formed on the other end of the shank and adapted to abut the outer end of the nipple to coöperate with the pointed end of the shank and valve seat in sealing the nipple, said shank having a groove extending from the pointed end to the collar to permit the escape of fluid from the nipple when the pointed end is unseated and the collar disengaged from the nipple, said collar being adapted to deflect the fluid laterally from the groove, and a handle formed on said collar.

1,347,952. AEROPLANE. BUNT HOOD, Columbus, Ga. Filed Feb. 13, 1919. Serial No. 276,724. 4 Claims. (Cl. 244—29.)



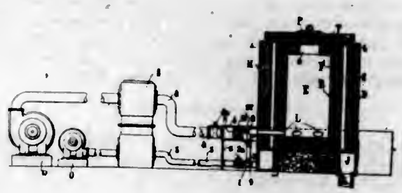
1. In an aeroplane, the combination of a body equipped with substantially horizontal transverse wings, and a propeller at the forward end of the body, of longitudinally spaced-apart groups of supplemental planes disposed with the planes superposed in spaced relation in each group, the said supplemental planes having axially pivoted opposite ends lying between the said transverse wings of the body, and means connecting together the pivoted ends independently in each group for simultaneously operating the planes of the respective group and adapted for independently controlling the groups of pivoted ends of the planes of the different groups

1,347,953. RESILIENT TIRE. JAMES A. HORNE, Newark, N. J. Filed Feb. 18, 1919. Serial No. 277,762. 7 Claims. (Cl. 152—8.)



3. The combination with a wheel including a felly, of a rim yieldably supported in spaced relation to the felly, a cushioning member resting on the rim, a tire casing completely housing the cushioning member and bearing against the rim, a clamping member formed of mating sections having their outer portions provided with angular extensions, the inner faces of which are roughened for engagement with the tire casing and their inner portions provided with depending perforated ears, and adjusting screws extending through the perforations of said ears for drawing the sections of the clamping member together to grip the casing on the rim.

1,347,954. GAS-FURNACE-REGULATING SYSTEM. ALEXANDER CONSTANTINE IONIDES, Jr., and SIDNEY VICTOR COOKE, London, England; said Cooke assignor to said Ionides. Filed Dec. 19, 1916. Serial No. 137,885. 11 Claims. (Cl. 158—7.)

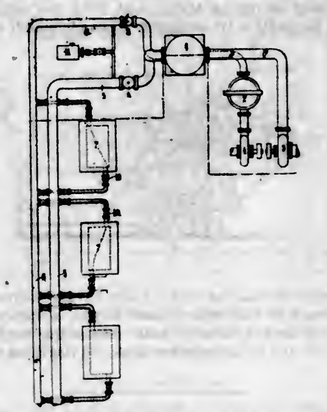


1. In combination in a gas furnace regulating system means for downwardly displacing the products of combustion to automatically maintain a very slight pressure in a furnace a sensitive regulator responsive to minute pressure differences for maintaining constant a practically exact relationship between the pressures of the two elastic fluid constituents of a combustible mixture supplied at low pressure to said furnace and means for mixing said constituents in desired proportions immediately preceding their free inlet to the furnace chamber.

1,347,955. GASEOUS COMBUSTION. ALEXANDER CONSTANTINE IONIDES, Jr., London, England. Filed Aug. 1, 1918. Serial No. 247,775. 17 Claims. (Cl. 158—119.)

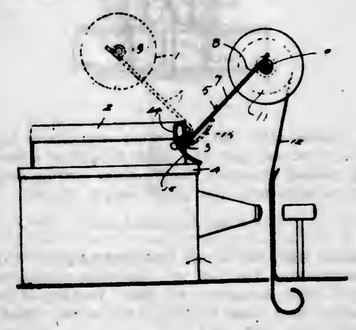
3. A system for supplying two gaseous fluids, such as gas and air, to any number of combustion appliances comprising in combination a supply of one of said fluids, say for example gas; a gas governor to prevent a predetermined pressure being exceeded, a supply of the other fluid such as air at a pressure always in excess of the said gas, a pressure balancing device by which said supplies are further controlled to maintain a definite relationship between their pressures, means for compensating for the variations in the quality of the gas by further adjustment of the controlled supply of at least one of the

fluids and mixing means having orifices controlled by members not easily afterward disturbed, which are primarily adjusted in accordance with the pressures to give



a mixture which is correctly proportioned prior to reaching the ignition zone of the combustion appliances.

1,347,956. REEL-HOLDER FOR MOVING-PICTURE MACHINES. JOHN HENRY KOCHOBO, McKeesport, Pa. Filed Mar. 29, 1918. Serial No. 225,491. 3 Claims. (Cl. 242—106.)



1. In a device of the class described, the combination with a body and a reel, of a support for the reel constructed of a single strand of wire bent to form shaft supporting eyes and engaging portions for engagement with a body to hold the reel in an operative position above and in advance of the body and in an inoperative position over the body.

1,347,957. NECKTIE-SUPPORT. HARUICHI KOHIROGAWA, Portland, Oreg. Filed Feb. 26, 1919. Serial No. 279,276. 3 Claims. (Cl. 2—84.)



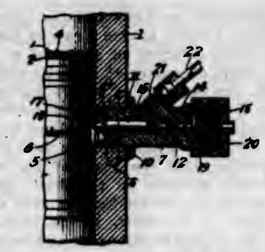
1. A neck tie support comprising a resilient member around which a tie is folded, having two legs bent inwardly to overlap each other and formed with openings, whereby when a band is passed through the openings in the overlapping ends, said ends will grip and hold the band.

1,347,958. STILT. ROBERT JAMES LYNCH, Tamaqua, Pa. Filed Mar. 27, 1920. Serial No. 369,318. 4 Claims. (Cl. 135—53.2.)



2. In an adjustable stilt the combination of a standard having one of its faces provided with a plurality of downwardly extending transverse recesses; a step formed of sheet metal vertically movable upon the standard, and having side wings in parallel spaced relation, said side wings having their upper straight edges provided with inturned meeting flanges along a portion thereof, said meeting flanges having a series of transverse corrugations and interlockingly engageable connecting means; an inclined body portion joining the side wings and having at its lower end a reinforced bearing edge and at its upper end an angular extension projecting above the upper edge of the side wings, said angular extension having at its central portion a vertical inwardly extending reinforcing rib; and a transverse bolt connecting the free ends of the side wings adjacent their upper edges for engagement with the transverse recesses of the standard.

1,347,959. AUTOMATIC LUBRICATING SYSTEM FOR INTERNAL-COMBUSTION-ENGINE PISTONS. OWEN J. MCGANN, Carrollton, Ohio. Filed May 31, 1919. Serial No. 301,074. 3 Claims. (Cl. 184—18.)

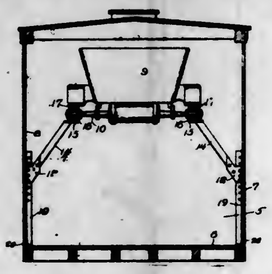


1. The combination with an internal combustion engine cylinder and piston, which latter is provided with a cam slot in its face, of an oiling device attached to the cylinder and having an oil duct communicating with the interior thereof, a valve for closing said duct, a cam operable against the face of the piston to maintain said valve closed, and means for projecting the cam into the cam slot to open the valve when the slot is alined with the cam.

1,347,960. ART OF STORING VEHICLES. CHARLES L. MICHOD, Morgan Park, Ill. Filed Mar. 3, 1920. Serial No. 363,061. 7 Claims. (Cl. 105—368.)

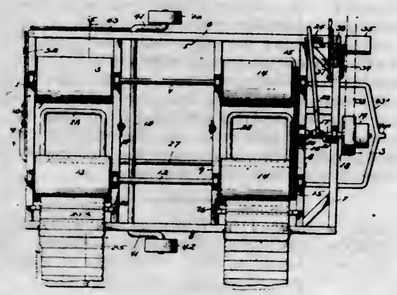
1. The combination with a freight-car, of a vehicle therein, and a supporting structure for the vehicle formed

of a brace member operatively engaging said vehicle and inclining downwardly and laterally therefrom and in a direction lengthwise of the vehicle, said brace member being held at its lower end, by the car, against displacement, and a second brace member adjacent said first-referred-to



brace member and operatively engaging the vehicle and inclining downwardly and laterally therefrom and in a direction lengthwise of the vehicle opposite that in which said first-referred-to brace member extends, the outer end of said second brace member engaging the adjacent wall of the car at a point above the car-floor.

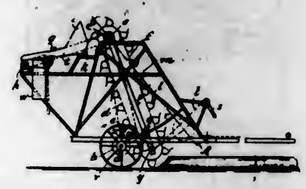
1,347,961. POWER-TRANSMISSION MECHANISM. JOHN IVAN MOORE, Butler, Mo. Filed Apr. 28, 1919. Serial No. 293,196. 3 Claims. (Cl. 74—106.)



1. In a transmission mechanism of the class described, the combination of a frame having a pair of shafts mounted thereon, a roller mounted on each end of each shaft and providing pairs of rollers at opposite extremities of the mechanism, the one pair of rollers having gears at the outer ends thereof on the shafts, a centrally-located power transmitting shaft carrying pulleys on the outer end thereof, a main power transmitting gear between and continually meshing with the gears of the one pair of rollers and loosely mounted on the power transmitting shaft, clutch means for connecting the said main power transmitting gear to its shaft, means operatively disposed between the rollers to disengage and raise the drive wheels of the motor vehicle relatively to the rollers, and means for rendering the entire mechanism readily portable.

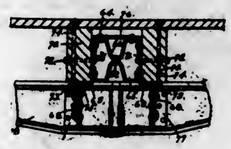
1,347,962. MACHINE FOR UNEARTHING AND GATHERING ROOTS AND THE LIKE. ANDRÉ MÜLBERTZ, Copenhagen, Denmark. Filed June 27, 1916. Serial No. 106,233. 1 Claim. (Cl. 55—51.)

A root harvester comprising a main frame, a shaft mounted in said frame and having supporting wheels and a gear, a second shaft mounted on said frame and having a gear engaging the first named gear and also having a sprocket wheel, a third shaft mounted at an elevated point on said frame, said third shaft having sprocket wheels one of which is connected by an endless sprocket chain with the first named sprocket wheel, a swinging frame mounted on said third shaft, an endless digging device mounted in said swinging frame, and means to adjust said swinging frame and hold the same at any desired inclination, a swinging sieve on which said drag-



ging device discharges, and a shaft having means to swing said sieve, said last named shaft having a sprocket wheel, and an endless sprocket chain connecting said sprocket wheel with the other sprocket wheel of the third mentioned shaft.

1,347,963. RAILWAY-CAR UNDERFRAME. WALTER P. MURPHY, Chicago, Ill. Filed Aug. 3, 1916. Serial No. 112,889. 24 Claims. (Cl. 105—420.)



1. In combination with the other elements of the under frame of a railway car, of a draft formed of a steel plate having pressed therein a longitudinal corrugation which extends substantially the entire length thereof.

1,347,964. RAILWAY-CAR UNDERFRAME. WALTER P. MURPHY, New York, N. Y. Original application filed Aug. 3, 1916, Serial No. 112,889. Divided and this application filed Nov. 7, 1917. Serial No. 200,703. 12 Claims. (Cl. 105—420.)

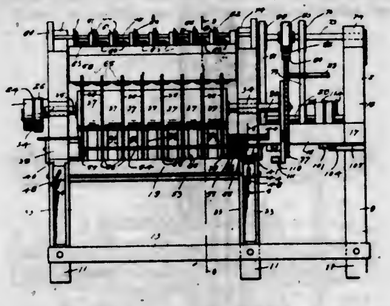


1. In combination with the center sills of a railway car, a pair of sheet metal draft arms longitudinally corrugated and arranged under said center sills and formed with inwardly projecting offsets which overlap and are secured to the inner sides of the center sills, said offsets being formed with longitudinal corrugations.

1,347,965. COMBINED GRINDER AND GUMMER MACHINE. GEORGE PIERCE NABORS, Argenta, Ark. Filed June 8, 1918. Serial No. 239,070. 11 Claims. (Cl. 76—40.)

1. In a gumming and grinding machine, a saw mandrel support, a mandrel mounted in the support, a plurality of saws carried by the mandrel, grinding means positioned

in the rear of the mandrel, gumming means positioned above the mandrels, means for operating the grinding and



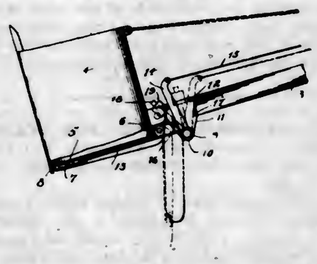
gumming means, and means for moving the mandrel support so as to bring the saws into and out of engagement with the grinding and gumming means.

1,347,966. SHADE-FIXTURE. WILLIAM MCCORMICK NEALE, Greensboro, N. C. Filed Aug. 14, 1919. Serial No. 317,528. 5 Claims. (Cl. 156—28.)



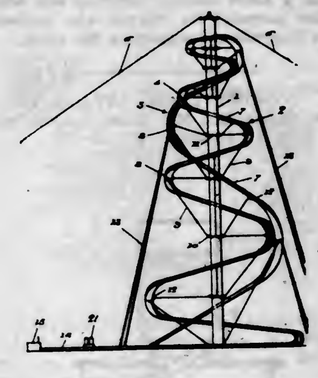
5. A shade roller having a cord winding thereon, a lever adapted to be pivoted adjacent to the reel to a fixed support and supporting that end of the roller for rotation, the cord being connected with the lever to swing the roller upward, the weight of the roller swinging the lever downward, and a brake controlled by the downward swinging of the roller.

1,347,967. BUCKET-LATCH FOR SHOVELS. WILLIAM J. NEWMAN, Chicago, Ill. Filed Aug. 30, 1918. Serial No. 252,053. 3 Claims. (Cl. 214—146.)



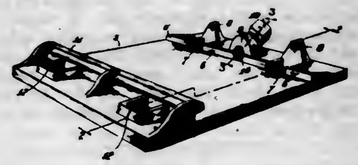
1. The combination with a steam shovel adapted for filling wagons or trucks and having the usual dipper and dipper stick, of a shaft mounted transversely of the stick, a chain from said shaft to the latch bolt for withdrawing the bolt, an upwardly extending arm connected with said shaft, an operating rope connected with said arm, and stops for limiting the movement of said arm to prevent the free end of the arm from swinging below the shaft.

1,347,968. SPIRAL-GLIDE AMUSEMENT DEVICE. GEORGE W. O'DOIE, Havana, Ill. Filed Nov. 17, 1919. Serial No. 338,545. 4 Claims. (Cl. 104—56.)



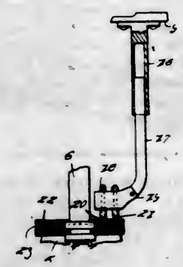
1. An amusement device comprising a central mast, spiral ascending and descending tracks surrounding one another and the mast, and spaced from said mast, and braces connecting the mast and tracks to support the tracks from the mast, said braces being detachable for separating the mast and tracks.

1,347,969. RAIL-ANCHOR TIE-PLATE. WARREN M. OSBORN, Chicago, Ill., assignor to Chicago Malleable Castings Company, Chicago, Ill., a Corporation of Illinois. Filed June 5, 1920. Serial No. 386,855. 3 Claims. (Cl. 238—304.)



1. A device of the class described comprising a body having spike-holes, an overhanging flange for one side of a rail base, a lug opposite the flange and extending above the body and having a screw-threaded passage terminating in line with the upper edge of the corresponding side of the rail base, and a set screw in the passage having its inner end abutting against and formed with a cutting-edge to bite into the upper edge of the rail base.

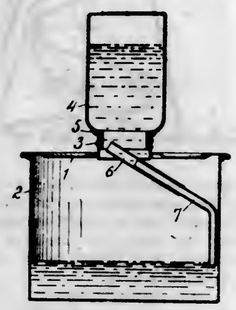
1,347,970. WINDMILL-OPERATED GENERATOR. FRANK A. OVERSTREET, Fort Sumner, N. Mex. Filed Oct. 7, 1916. Serial No. 124,323. 1 Claim. (Cl. 171—322.)



A contact device comprising a support, a pair of annular contact elements insulated from each other and

mounted one above the other upon the support, vertically disposed brushes bearing at their lower ends upon the upper surfaces of the contact elements, an arm carrying the brushes, a sleeve slidably receiving said arm and a base member journaled for rotation and disposed above the contact elements and supporting the sleeve.

1,347,971. COOKING-VESSEL ATTACHMENT. HARVEY RAY, Kansas City, Mo. Filed Aug. 22, 1918. Serial No. 250,913. 2 Claims. (Cl. 53—1.)



2. In a cooking utensil, a kettle cover, means carried thereby for releasably closing the mouth of an inverted jar or similar liquid container, and a conductor adapted to communicate with said mouth and to extend into a kettle supporting said cover, said conductor comprising upper and lower tubular members, the upper member being inclined and the lower member being angular in form and rotatable in the upper member to vary the height of the lower end of the lower member.

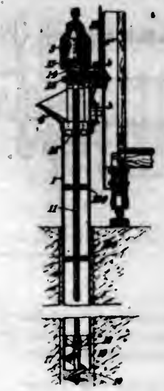
1,347,972. HAND-TOOL. VALDEMAR F. REICH, Pittsburgh, Pa. Filed Apr. 4, 1919. Serial No. 287,585. 4 Claims. (Cl. 49—52.)



4. In a hand tool, the combination of an elongated body including a head and handle, said head being provided with means for removably attaching a tool to it, said handle being provided with a longitudinal bore open at the outer end of the handle, a tool magazine longitudinally slidable but non-rotatable in said bore, and a cap rotatably mounted on the outer end of said magazine, said cap having screw thread engagement with the outer end of said handle.

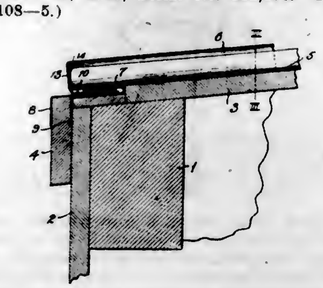
1,347,973. CONSTRUCTION OF FERROCONCRETE PILES IN SITU. ALEXANDER GEORGIEVITCH ROTINOFF, London, England. Filed Nov. 13, 1919. Serial No. 337,877. 11 Claims. (Cl. 25—1.)

5. An apparatus for making a concrete pile or column, comprising a reservoir-tube, a feed-worm therein and operatively connected thereto, means to rotate the feed-worm so that it gradually forces itself and said tube away from the base of the pile or column by its reaction with the surface of the concrete as the latter becomes



compacted, and means for transmitting blows through the feed-worm to the laid concrete to compact it.

1,347,974. CAR-ROOF. THOMAS NATHAN RUSSELL, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 22, 1919, Serial No. 332,476. 11 Claims. (Cl. 108—5.)

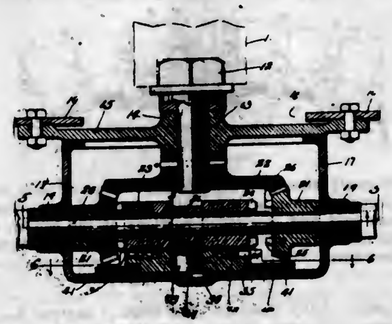


1. In a car roof, the combination of a roof frame, roof sheets having upstanding hooked side flanges, seam caps having inturned hooked flanges loosely interengaged with said flanges of the roof sheets, means carried entirely by the seam caps for closing the eaves ends thereof and for holding the roof sheets from outward sliding, a connection holding together the ridge ends of the seam caps, and interengaging hook elements on the roof frame and on the eaves ends of the roof sheets whereby the roof sheets and seam caps are held from upward movement.

1,347,975. REVERSING-GEAR FOR WASHING-MACHINES. RUDOLPH F. SETTLAGE, St. Louis, Mo. Filed Aug. 29, 1919. Serial No. 320,563. 10 Claims. (Cl. 74—50.)

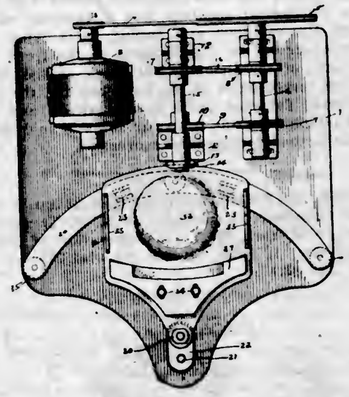
1. In a reversing gear, a driving shaft, a pair of pinions loosely mounted thereupon, a gear wheel meshing with said pinions, a shaft upon which said gear wheel is carried, a member mounted to slide lengthwise upon and rotate with the driving shaft between the pinions thereon, the ends of which member are adapted to engage said pinions so as to drive the same, a cam, means associated therewith for effecting a movement of the cam in a direction substantially parallel with the driving shaft, and driving connections between said cam and the member that is mounted on the driving shaft between the pinions.

5. In a reversing gear, a driving shaft, a pair of pinions loosely mounted thereon, a gear wheel having driving connections with said pinions, a shaft on which said gear wheel is carried, a clutch member carried by the



driving shaft and adapted to engage the pinions thereon, a ratchet wheel associated and movable with said clutch member, and means on said clutch member for imparting intermittent rotary movement to said ratchet wheel.

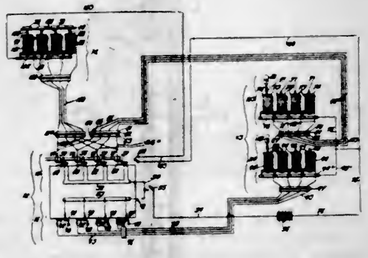
1,347,976. TRIMMING-MACHINE. HORACE D. STEVENS, Summit county, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 8, 1917. Serial No. 185,157. 4 Claims. (Cl. 164—63.)



1. A machine for trimming the edges of blow out patches having a central concave portion, an oscillating work table, a knife located at one edge of said table, a guide at the rear of said table opposite the knife, and a bulbed formation on the table adapted to fit within and support the central concave portion of the patch.

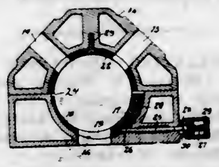
1,347,977. MUSICAL INSTRUMENT. JOHN WEBER, Philadelphia, Pa. Filed Apr. 7, 1919. Serial No. 288,395. 2 Claims. (Cl. 84—81.)

1. The combination of two wind operated instruments each having a melody and an accompaniment section respectively provided with valves; means for operatively connecting in combination valves of each of the accompaniment sections whereby harmonic combinations of tones are produced simultaneously in said accompaniment sections of each instrument when said means is actuated; one of said instruments having keys for operating the melody section valves and keys for operating said combination connecting means of the accompaniment valves; and automatically operative means for opening the melody section valves of the other of said instruments when the first mentioned keys are operated



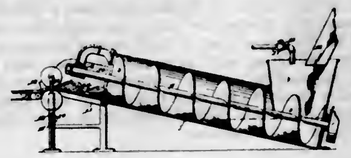
and for operating the combination connecting means of valves of the accompaniment section of said other instrument when said first mentioned keys are operated; substantially as described.

1,347,978. ROTARY VALVE. RUDOLPH WEHA, New York, N. Y. Filed May 2, 1919. Serial No. 294,232. 3 Claims. (Cl. 123—190.)



2. In an internal combustion engine of the rotary valve type, a valve casing including a substantially semi-cylindrical lining member, said member having its inner surface concentric with the valve and its external surface eccentric whereby one edge of said member is materially thicker than the opposite edge, a rotary valve engaging with said member and having a normal rotation with its surface engaging with said lining member tending to move the latter toward its thicker or base edge to increase clearance, and resilient means normally tending to move said lining member toward its narrow edge to decrease clearance.

1,347,979. METHOD OF TREATING STRAW AND THE LIKE FOR MAKING PAPER-PULP. ERNEST E. WERNER, St. Louis, Mo. Filed May 5, 1919. Serial No. 294,780. 11 Claims. (Cl. 92—7.)



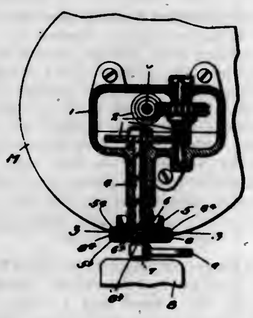
1. The method of treating straw, and the like, for producing paper pulp, which consists in subjecting the material to the action of an excess of an alkaline solution and thereafter, and before further treatment, expressing excess solution to reduce the alkalinity of the material to a given degree.

1,347,980. SECTIONAL CHIMNEY. FRANK D. WHITE, Akron, Ohio. Filed Apr. 22, 1918. Serial No. 229,924. 2 Claims. (Cl. 72—94.)



2. A chimney composed of surmounting inter-engaging sections, the cross-sectional dimensions of said sections being uniform but their composition variable in different portions of the chimney, whereby sections of requisite heat resisting and load resisting properties may be assembled according to the requirements of different portions of the chimney.

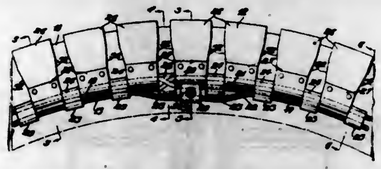
1,347,981. OSCILLATING MECHANISM FOR ELECTRIC FANS. WILLIAM G. WINTER and HERBERT I. FINCH, St. Louis, Mo., assignors to The Emerson Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed May 7, 1919. Serial No. 295,341. 8 Claims. (Cl. 74—14.)



1. In an oscillating mechanism for fans, a rotary member, means for driving the same, an adjustable member carried in the lower end of said rotary member, means pivotally connecting said adjustable member with a stationary support, a housing inclosing the lower end of said rotary member and folded thereover, and adapted to move said adjustable member toward or away from the axis of said rotary member.

1,347,982. TIRE-ARMOR. PETER V. YOUEL, Philadelphia, Pa. Filed Apr. 14, 1919. Serial No. 289,903. 2 Claims. (Cl. 152—16.)

1. A device of the character described including a number of flexible members having loops formed at their ends; means for securing said members across the tread of a tire and including a cable; bands interposed between said members and having portions positioned closer to the axis of the tire than said loops and other portions in alinement with said loops, said cable having a plurality of complete coils, one of said coils of the cable extending



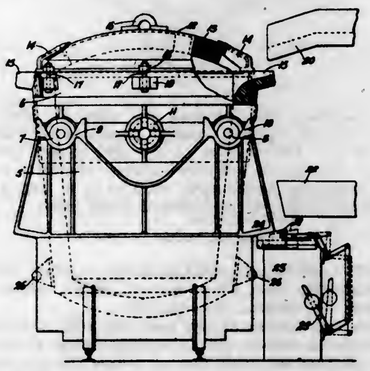
continuously through the alined portions of said band and loops, another of said coils extending continuously through said first mentioned portions of the bands; and means for fastening the ends of the cable; substantially as described.

1,347,983. SOFT-COLLAR HOLDER. ARNOLD L. ANDERSON, Attleboro, Mass. Filed Mar. 19, 1920. Serial No. 367,163. 4 Claims. (Cl. 24—81.)



1. In a soft collar holder, a front bar having its ends bent inwardly and curved outwardly and then bent substantially parallel to the body of the bar and finally bent at right angles and outwardly and formed with approximately rectangular openings, and a clamping bar passed through the openings and having parts lying opposite to and engaging the curved parts of the front bar, the outer ends of the clamping bar being curved outwardly from the curved parts of the front bar and the clamping bar having flattened parts lying between and opposite to the terminals of the front bar so as to hold the clamping bar against longitudinal movement.

1,347,984. HOT-METAL LADLE-CAR. CARL P. ASTROM, East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y., a Corporation of New York. Filed Dec. 1, 1919. Serial No. 341,780. 6 Claims. (Cl. 22—83.)



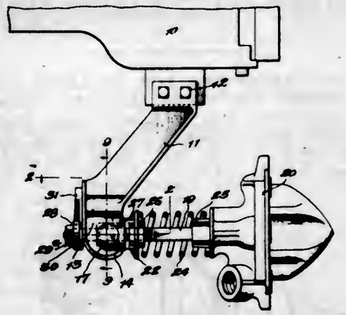
1. In a hot metal car, a ladle for hot metal and a cover composed of a ring having a pouring recess, a refractory lining supported by the ring, and a plate top, the ring recess permitting expansion and contraction with temperature changes without loosening the lining.

1,347,985. BEARING FOR CLUTCH AND PULLEY MECHANISM. MEYER AXILROD, New York, N. Y., assignor to Safety Machinery Corporation, New York, N. Y., a Corporation of New York. Filed May 18, 1918. Serial No. 235,268. 2 Claims. (Cl. 64—17.)



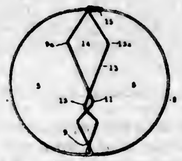
1. In combination, a pulley comprising a plurality of annular plates arranged in parallel relation to each other, each of the said plates being provided with a peripheral groove, means for securing the said plates together in spaced relation to each other, a shaft, a ball-bearing secured to said shaft and annular plate members intermediate the said ball-bearing and the said annular plates, said members being secured to said annular plates and connecting the latter with said ball bearing.

1,347,986. AUTOMATIC TRAIN-PIPE COUPLING. MARTIN A. BARBER, Cleveland, Ohio, assignor to The American Automatic Connector Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 8, 1918. Serial No. 227,330. 22 Claims. (Cl. 285—58.)



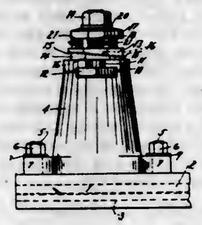
1. In an automatic train pipe coupling, the combination with the supporting bracket and coupler head, said bracket having two spaced arms depending from its lower end formed with alined slots extending inwardly from one edge; of a pivot block having trunnions arranged in said slots, a spring seat pivoted on said block for rocking movement about an axis perpendicular to the axis of said trunnions and a spring interposed between said seat and head.

1,347,987. HAIR-SUPPORT. BLANCHE E. BEADLE, Springfield, Mass. Filed Apr. 8, 1919. Serial No. 288,615. 6 Claims. (Cl. 132—23.)



1. A hair form consisting of a frame formed wholly of companion hair clasping jaws flexibly connected to each other to open the width of the frame.

1,347,988. TOOL-POST. PHILIAS M. BEDARD, Springfield, Mass. Filed Nov. 29, 1919. Serial No. 341,442. 4 Claims. (Cl. 82—37.)



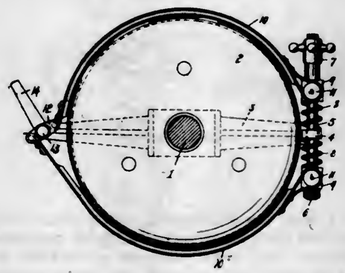
2. The combination, in a tool-post, with a slotted support, of a bolt having a head which is receivable in the slot in said support, slotted tool-supporting members on said bolt, the contiguous faces of said members being inclined and provided with teeth, and tool-clamping means also on said bolt.

1,347,989. CONNECTOR FOR BED OR SEAT SPRING STRUCTURES. CHARLES S. BURTON, Oak Park, Ill. Filed Nov. 3, 1919. Serial No. 335,541. 3 Claims. (Cl. 5—29.)



1. In combination with two members of a spring structure to be connected, a connector comprising a two-part hook device, each part having at one end a hook for engaging one of said members, and at the other end an eye for engaging the other member, said eyes being open for entering onto the member which they engage by hooking movement in opposite directions, said two parts being adapted to interlock with each other in their said opposite hooking movement.

1,347,990. VEHICLE-BRAKE. GEORGE M. CARTER, Findlay, Ohio, assignor of one-half to Ralph H. Rosenberg. Filed May 16, 1919. Serial No. 297,598. 1 Claim. (Cl. 188—77.)



In a brake of the class described, a rotatable brake drum, a stationary anchorage member having a part at the periphery of the drum, a rod projected loosely through the anchorage member for longitudinal movements relative thereto in a plane tangential to the drum periphery, a pair of blocks carried by the rod one at each side of the anchorage member for movements lengthwise of the rod, a stop for each block at the respective end of the

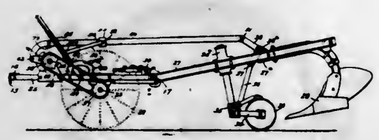
rod to limit the outward movements of the blocks, one of the stops comprising a nut member adjustable on the rod to vary the normal distance between the blocks, each of said blocks having trunnions projecting from opposite sides thereof, a coiled compression spring encircling the rod between the anchor member and each block to yieldingly equalize the position of the rod with respect to the anchor member, brake bands extending in opposite directions around the drum periphery and each having ears connected to the trunnions of a respective block, and means carried by the anchor member at the opposite side of the drum to the rod, said means connecting the opposite ends of the brake bands and operable to effect a contraction or expansion of the bands.

1,347,991. GATE-LATCH OR THE LIKE. JOSEPH B. CLAY, Cedar Falls, Iowa. Filed Apr. 1, 1916. Serial No. 88,220. 12 Claims. (Cl. 292—216.)



1. A gate latch of the kind described comprising a base plate provided with a projecting horizontal flange, a substantially U-shaped latch member arranged below and pivotally carried by said flange, a pair of pins arranged at each side of said flange and movable downwardly therethrough in the path of said latch member, means on said pins for limiting the upward movement thereof, said U-shaped member having shoulders arranged to normally abut against the projecting ends of said pins below the base plate flange.

1,347,992. TRACTOR-PLOW, FRANK E. DAVIS and WILLIAM W. CAMERON, La Crosse, Wis., assignors to La Crosse Plow Co., La Crosse, Wis., a Corporation of Wisconsin. Filed Apr. 18, 1913. Serial No. 761,928. 41 Claims. (Cl. 97—70.)



22. In a plow, the combination with a frame, carrying-wheels, a plow-carrying structure, a lifting connection for said structure, and power operated mechanism for operating said connection to raise the structure and for imparting an initial movement to said connection, to release the structure for fall by gravity.

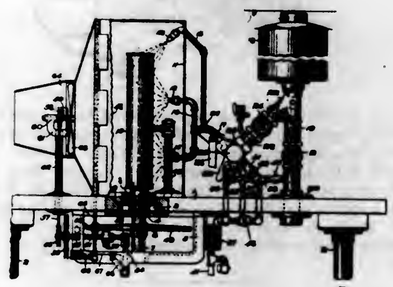
32. In a plow, the combination with a frame, carrying-wheels and a plow beam, of a self-locking lifting linkage, power-operated mechanism carried by the frame for shifting the linkage to a position in which it will be self-locking to hold the beam raised, means for locking the linkage to hold the structure raised before it reaches the self-locking position, the linkage permitting the beam to drop by gravity when the locking-means is released, and means for rendering the locking-means operative and inoperative to hold the linkage.

1,347,993. ARTICULATED EFFIGY. HERBERT M. DAWLEY, Chatham, N. J. Filed Feb. 26, 1920. Serial No. 361,390. 15 Claims. (Cl. 35—16.)



1. An effigy comprising an internal structure consisting of an articulated skeleton frame, a padding in which said frame is embedded, and means for retaining said padding in place; and an external body member of elastic material superimposed on said internal structure, said body member being shaped to conform to the external surface contours of the creature represented by the effigy.

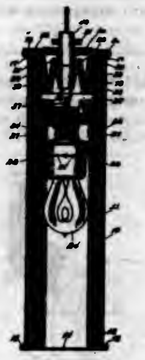
1,347,994. MECHANISM FOR APPLYING COATING TO SHELLS AND OTHER ARTICLES. HERBERT W. DAY, Wollaston, Mass., assignor to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed June 22, 1917. Serial No. 176,317. 16 Claims. (Cl. 91—44.)



1. Mechanism for applying coating comprising an article support, coating means, an inclosing casing for said article support and having a closure, driving means for the article support, and means operatively connected to said closure to impart relative movement to said coating means and the article support.

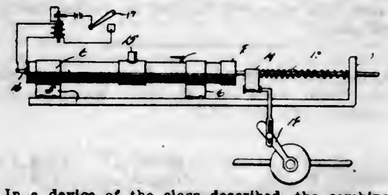
1,347,995. BED-WARMING DEVICE. NATHANIEL WALKER DENDY, Asheville, N. C. Filed Oct. 4, 1919. Serial No. 328,428. 2 Claims. (Cl. 219—45.)

1. An electric bed warmer comprising a double walled casing having a removable closure at one end thereof, a non-metallic fabric surrounding the casing, a heating element arranged within the inner wall of the double walled casing and closing the other end thereof, and means



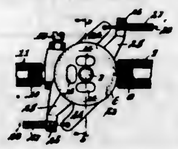
located upon the outside of the casing and connected to the heating element for regulating the heat.

1,347,996. DEVICE FOR STOPPING TRAINS OR CARS. HOLLIS J. DERBY, Amherst, Ohio. Filed June 5, 1916. Serial No. 101,815. 2 Claims. (Cl. 246—190.)



1. In a device of the class described, the combination with a cylinder having perforated caps at its ends and an exhaust port at about its midlength, a spark plug in the perforation of the outer cap and included in an ignition circuit, a piston within the cylinder between this cap and said port, the space between such cap and piston constituting an expansion chamber adapted to contain an explosive, and means for closing said circuit; of a rod leading from the piston through the perforation in the inner cap, a shoulder fixed on the rod in position to strike this cap when the piston has passed said port, a spring bearing the rod and piston normally inward, and a lever connected with an actuated by movements of said rod.

1,347,997. FUEL-MIXER. JOHN DUFFY, Chicago, Ill. Filed Dec. 3, 1917. Serial No. 205,084. 6 Claims. (Cl. 251—108.)



1. A device of the class described comprising a casing; a rotary valve member in said casing; means for supplying water to said casing and conducting the same away, said means being controlled by said valve; substantially diametrically projecting operating arms on said valve; substantially diametrically disposed sockets on said casing coöperating with said arms; and an operating connection for said arms arranged to be mounted in either of said sockets and operatively connected with either of said operating arms, substantially as described.

2. A device of the class described comprising a hollow cylindrical casing open at one end and having one or more air ports eccentrically positioned in its other end; a hollow rotary valve mounted in said casing and closed on all sides, the inner portion of said valve being provided with one or more eccentrically positioned ports adapted to be brought into registration with the air ports in said casing; and means for operating said valve, substantially as described.

3. A device of the class described comprising a casing; means leading horizontally from one side of said casing for connecting said casing with the intake of an engine; means leading horizontally into the opposite side of said casing for admitting water thereto; ports in the end of said casing admitting air thereto; a rotary valve controlling the passage from said water and air admission means to said connecting means; substantially diametrically disposed operating arms on said valve; substantially diametrically disposed sockets on said casing coöperating with said arms; and an operating connection for said arms arranged to be mounted in either of said sockets and operatively connected with the corresponding arm, substantially as described.

4. A device of the class described comprising a hollow cylindrical casing open at one end and having a plurality of air ports in its other end; a central stem projecting from the closed end of said casing through the open end thereof; a nipple leading horizontally from one side of said casing for connecting said casing with the intake of an engine; a nipple leading horizontally into the opposite side of said casing for supplying water thereto; a rotary hollow valve mounted on said stem having ports in its side walls controlling the water inlet and the connection with the intake of the engine, and ports in its end wall controlling the air inlet ports; substantially diametrically projecting operating arms on said valve; substantially diametrically disposed sockets on said casing cooperating with said arms; and an operating connection for said arms arranged to be mounted in either of said sockets and operatively connected with the corresponding arm, substantially as described.

5. A device of the class described, comprising a casing open at one end and having one or more air ports in its other end; a hollow rotary valve mounted in said casing and closed on all sides, the inner portion of said valve being provided with one or more ports adapted to be brought into registration with the air ports in said casing, and the outer portion of said valve projecting beyond said casing; substantially diametrically projecting operating arms secured to the outer end of said valve; substantially diametrically projecting arms secured to said casing adjacent the open end thereof, each of said arms having a longitudinally extending socket adjacent the free end thereof; and an operating connection for said first mentioned arms arranged to be mounted in either of said sockets and operatively connected with the corresponding arm, substantially as described.

1,347,998. EYEGLASS-MOUNTING. EDGAR R. DURGIN, Newark, N. J., assignor to New Jersey Optical Co., Newark, N. J., a Corporation of New Jersey. Filed Feb. 27, 1919. Serial No. 279,560. 4 Claims. (Cl. 88—42.)



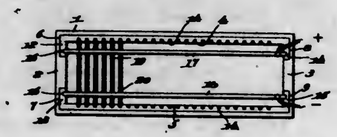
1. In an eyeglass mounting the combination of a bridge which is circular in cross section, the said bridge being bowed and having outwardly extending projections at its opposite ends, nose gripping members terminating in outwardly extending projections at their upper ends, means for securing the projections of the bridge and of the nose gripping members respectively together, straps having operative connection with the lenses of the eyeglasses, the outer ends of said projections being secured directly to the said straps.

1,347,099. COLLAR-HOLDER. JACOB ELSON, New York, N. Y. Filed Mar. 26, 1920. Serial No. 369,033. 5 Claims. (Cl. 24—81.)



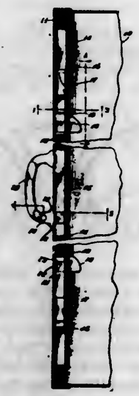
4. A holder for soft fold over collars embodying a front member and a back member provided at their centers with interfitting spring loops, and means for securing said members together at the looped portions thereof, whereby the opposite ends of the holder constitute two spring clips, a portion of the forward face of the back member on either side of the spring looped portion thereof being knurled to tightly grip the fold over portion of the collar on the concealed face thereof.

1,348,000. FORMATION-TANK. DAVID H. FLEMING, Boston, Mass. Filed Apr. 7, 1920. Serial No. 371,905. 3 Claims. (Cl. 204—29.)



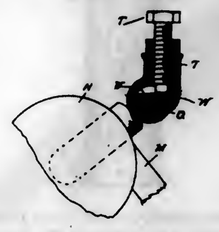
2. A formation tank for preparing storage battery plates comprising a liquid container, said container being substantially as wide as the storage battery plates to be prepared and being sufficiently long to receive a series of plates in spaced transverse relationship, said container having vertical grooves in its opposite sides to receive and hold the plates in position, said grooves terminating in shoulders somewhat above the bottom of the container to support the plates in spaced relationship to the bottom of the container, and the end walls of said container having recesses to receive and hold conducting bars in juxtaposition to the terminal lugs extending from the battery plates, the portions of said container having said grooves and recesses being formed of acid resisting and electrically insulating material.

1,348,001. DOOR-LATCH. ADOLF E. FOHN, Montgomery, Ill., assignor to Aurora Steel Products Company, Aurora, Ill., a Corporation of Illinois. Filed Jan. 9, 1920. Serial No. 350,260. 9 Claims. (Cl. 292—18.)



1. The combination with a door, of a pivoted latch thereon extending out from the body of the door at an angle thereto, a fixed keeper with the lower edge of which said latch engages when the door is closed, and vertically-sliding means carried by the door for holding said latch normally forced up into engagement with the keeper when the door is closed.

1,348,002. FAN ADJUSTMENT. RAY HARROUN, Highland Park, Mich., assignor to Harroun Motors Corporation, Wayne, Mich., a Corporation of Delaware. Filed Feb. 12, 1917. Serial No. 148,210. 6 Claims. (Cl. 64—52.)



1. A combinated support and tightener, comprising a shaft having offset portions, one of which carries a pulley wheel and the other of which has a bearing surface, a bearing for said last-mentioned offset portion, a set screw engageable with said last-mentioned offset portion to rock said shaft, and means for limiting the rocking movement of said shaft.

1,348,003. TRACTOR. RALPH B. HARTSOUGH, Minneapolis, Minn. Filed June 21, 1915. Serial No. 35,191. 13 Claims. (Cl. 180—27.)

1. In a three wheeled tractor, the combination with a truck frame, of axially alined laterally spaced rear traction wheels, a relatively small front guide wheel alined with one of said traction wheels, a differential gear mechanism connecting said traction wheels, and a motor carried by said truck frame and having connections for driving said traction wheels through said differential gear mechanism.

1,348,004. PRESS-PLATE FOR COTTON-SEED AND OTHER OIL PRESSES. NELSON B. HENRY, Atlanta, Ga., assignor to The Murray Company, Dallas, Tex., a Corporation of Texas. Filed Sept. 9, 1919. Serial No. 322,658. 3 Claims. (Cl. 100—54.)



1. In a press plate, a body, a flange formed at each end of the plate, curved side flanges for the plate, said side flanges bent inwardly toward the body to constitute one

member of an interlocking device between consecutive press plates and vertical lugs projecting from the bottom of the side flanges to constitute the other member of said interlocking device.

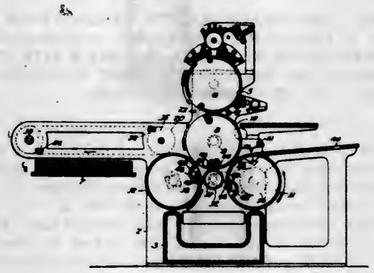
3. A press plate having a central body, side flanges and end rims surrounding said body and integral therewith, corner brackets projecting laterally from the side flanges, lower lugs projecting vertically from said flanges, and a cake supporting plate secured to the body and extending toward, but not meeting the side flanges.

1,348,005. TOOL FOR INSERTING PLUGS IN TIRES. HARRY R. HIRST, Trenton, N. J. Filed Mar. 20, 1919. Serial No. 283,870. 2 Claims. (Cl. 152—27.)



1. A tool for inserting plugs in tires comprising, a tube having a body portion of the same interior diameter as the cross-section of the body portion of a resilient plug adapted to be inserted therein, a reduced end portion formed upon the end of the tube and a plunger mounted within the tube adapted to force the plug into the said reduced end portion and compress the body of the plug to a smaller diameter and eject a portion of the plug from the end of the tool.

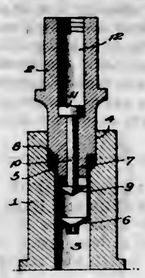
1,348,006. PLANOGRAPHIC PRINTING-PRESS. WILLIS K. HODGMAN, Taunton, Mass., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 20, 1915. Serial No. 56,838. 11 Claims. (Cl. 101—137.)



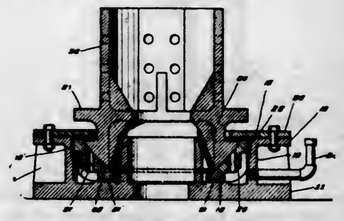
1. In a rotary printing press, a cylinder carrying a design to be printed, an impression roll having a true and unbroken periphery to press the sheets to be printed against the said design, and frictional driving means providing slippage to rotate the said impression roll from a source of power other than the printing cylinder at a velocity flexibly suited to the work being done.

1,348,007. DIE FOR EXTRUDING COLLAPSIBLE TUBES. WILLIAM C. HUNTOON, Providence, R. I. Filed June 10, 1919. Serial No. 303,179. 8 Claims. (Cl. 207—3.)

1. A die for extruding collapsible tubes, comprising a female part having a cylindrical chamber of a diameter equal to the outer diameter of the tube, said chamber having one end counterbored to form an internal, blank-supporting shoulder, a male part in the form of a plunger slidably fitting the counterbore and having an extension to a diameter equal to the inner diameter of the tube, and means carried by the extension for guiding the interior wall of the tube during the extrustion thereof.

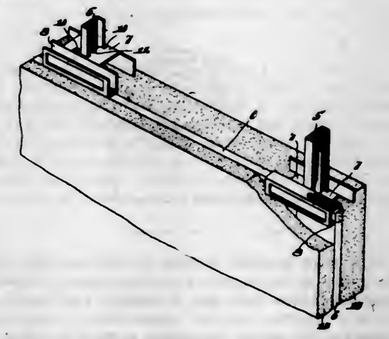


1,348,008. DERRICK-BASE. WILLIAM H. INSLEY and ALVIN C. RASMUSSEN, Indianapolis, Ind., assignors to Insley Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed June 13, 1919. Serial No. 304,030. 4 Claims. (Cl. 212—70.)



2. A derrick-base comprising a base member forming a well provided with a substantially horizontal wearing face and a cylindrical substantially vertical wearing face; an intermediate step member mounted in the well and provided with a substantially horizontal wearing face and a cylindrical substantially vertical wearing face, and an upwardly-presented spherical-segment socket; a mast-foot member having a mast-receiving upper end and a lower end carrying a spherical segment seated in the socket of the step member, and means for preventing undue displacement of said parts.

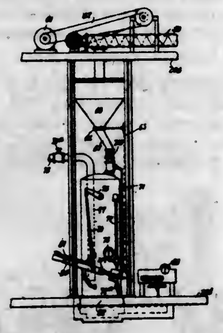
1,348,009. STRUCTURE FOR PARTITIONS, CEILINGS, AND THE LIKE. MARVIN H. JESTER, Chicago, Ill. Filed Nov. 29, 1918. Serial No. 264,553. 4 Claims. (Cl. 72—46.)



1. In a building structure of the character described, the combination of an anchoring element; a board;

means for connecting said board and anchoring element, comprising a member engaging with said board and having a laterally opening slot engaging with said anchoring element, said slot being notched at one side, whereby said member, through longitudinal shifting thereof, will interlock with said anchoring element and be held thereby against lateral shifting; and means for locking said member against longitudinal shifting in order to interlock with said anchoring element, substantially as described.

1,348,010. BLOWING-TANK FOR COMPRESSED-AIR TRANSPORT SYSTEMS. HARRY ARTHUR KIMBER, New Rochelle, N. Y., assignor to Quigley Furnace Specialties Co., Inc., a Corporation of New York. Filed Jan. 31, 1918. Serial No. 214,755. 2 Claims. (Cl. 302—53.)



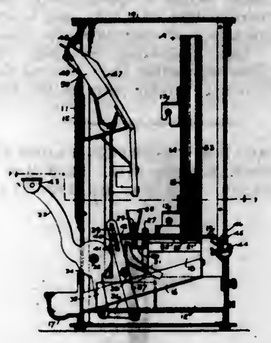
2. An apparatus such as set forth in claim 1, in which the outlet pipe exetnds nearly to the bottom of the tank and has its inlet facing downward combined with a cone set on the tank floor opposite the said inlet, and a vertically movable curtain pipe, open at top and bottom, surrounding the outlet pipe and adapted to be forced down around the cone to prevent the outflow of the coal from the tank, while permitting air to pass out downwardly through it and upwardly through the outlet pipe, whereby, when the delivery of coal is thereby stopped, air may still flow out to scavenge the outlet piping.

1,348,011. SNAP-FASTENER. WILLIAM H. LAMMERS, New York, N. Y. Filed Aug. 1, 1918, Serial No. 247,815. Renewed May 28, 1920. Serial No. 385,069. 3 Claims. (Cl. 24—217.)



1. In a snap fastener, a head member having a relatively square shoulder, and a socket member having an eye through which the head is directly and bodily projected in a direction parallel to the central axis thereof in attaching the parts, the socket member however preventing the withdrawal of the head in the direction directly opposite to the aforesaid direction of attachment.

1,348,012. REGISTERING CONTRIBUTION-BOX. FRANK W. LANCASTER, Philadelphia, Pa. Filed Nov. 30, 1918. Serial No. 264,790. 1 Claim. (Cl. 194—80.)



In an apparatus of the character described, the combination with a fixed upright tube for checks having a retarding ledge across the rear side of its lower end, a chute beneath the latter leading to a delivery cup, and a coin chute forward of the tube; of a bridge having a guide forward of the lower end of the tube, a plunger slidable in said guide and having cleats rising from its edges and turned inward into flanges, the plunger having a transverse coin slot in its bottom and the flanges having notches over the ends of said slot, a spring moving the plunger normally rearward against said tube, manually operable mechanism for moving the plunger forward, a funnel carried by the plunger and standing normally beneath said coin chute, a rest plate carried by the bridge and extending forward beyond said slot, and a slide guided within said plunger and having a coin slot registering with the slot thereof and a check opening registering with the bore of the tube.

1,348,013. METHOD OF MAKING CASING-SHOES, &c. JOHN J. LARKIN, Bartlesville, Okla. Continuation of application Serial No. 283,474, filed May 9, 1914. This application filed Oct. 11, 1919. Serial No. 330,014. 2 Claims. (Cl. 29—156.)



1. The method of forming drive or casing shoes for oil-wells, or like cylindrical articles, consisting in heating a cylindrical blank, expanding the blank to shape it interiorly and at the same time increase its external diameter over its finished size for a portion of its length, and then removing the expanded metal exteriorly from the blank, thereby producing a straight outside wall for the entire length of the blank.

1,348,014. CLOSURE FOR BOTTLES AND OTHER RECEPTACLES. ANDREW C. LATHROP, Yantic, Conn. Filed Mar. 14, 1918. Serial No. 222,418. 8 Claims. (Cl. 215—72.)

1. A closure including a retaining member having a circular bore therethrough, the upper walls of said bore converging upwardly, the uppermost end of said bore

being square, and a buoyant stopper having its body portion the same shape as said bore to be snugly received



therein, the upper portion of said stopper being square to be engaged by the square portion of the bore, and extended thereabove.

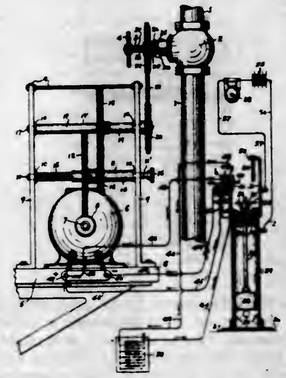
1,348,015. LEAK-DETECTOR FOR VESSELS. HERMAN H. LEE, Brooklyn, N. Y. Filed Apr. 20, 1918. Serial No. 229,691. 1 Claim. (Cl. 200—84.)



In a device of the kind described, a float, a stem extending vertically upward from said float, guide-means for slidably supporting said stem, a combined stop and contact collar on said stem above said guide means, a graduated scale on said stem for determining the desired adjustment of said collar thereon for the purpose of positioning the float to receive the buoying contact of fluid when the latter rises to a predetermined level, a contact-post mounted on and insulated from said guide-means adjacent to said stem, said contact-post having a horizontal portion projecting toward said stem to lie in the path of upward movement of said collar when said float and its stem rise, an electric alarm circuit grounded on one side to said guide-means and stem and electrically connected on the other side to said contact-post.

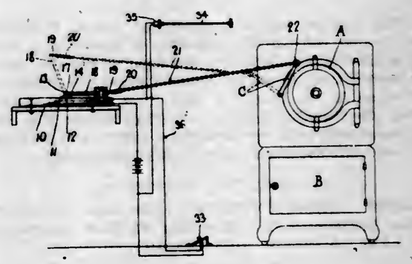
1,348,016. AUTOMATIC VALVE-CONTROLLING MEANS. HERMAN H. LEE, Brooklyn, N. Y. Filed Jan. 31, 1919. Serial No. 274,316. 1 Claim. (Cl. 172—288.)

In a device of the kind described, a pump controlling valve mechanism having a rotary stem, an electric motor, transmission mechanism driven by sad motor for rotating said valve stem, an electric circuit serving said motor, a normally open reversing switch mechanism included in said circuit for reversing the flow of current to cause said motor to rotate in a reverse direction, a trigger arm connected with said switch mechanism for moving the same, a vertically movable float mechanism having a stem, a trip arm carried by said stem, upward movement of said stem being adapted to carry said trip arm in passing engagement with said trigger arm to operate said switch mechanism to pass the current through said motor causing



a time limited rotation of the latter in one direction, the downward movement of said stem being adapted to carry said trip arm in a reversed passing engagement with said trigger arm to operate said switch mechanism to reverse the current through said motor causing a time limited rotation of the latter in the opposite direction, and a fluid chamber having fluid admission passages in which said float mechanism is mounted.

1,348,017. AUTOMATIC SAFE-CLOSER. ELMER G. LEON, Hubbleton, Wis. Filed Jan. 5, 1920. Serial No. 349,421. 2 Claims. (Cl. 268—9.)

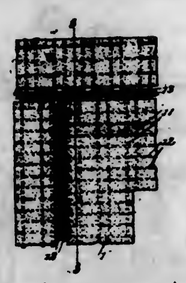


1. In combination with the handle of a time lock safe door, an automatic door closing device comprising a spring-pressed arm, a flexible member connected with the arm and with the door handle, a trigger member engaging over said arm and normally maintaining the same under tension, a lever engaging said trigger member for holding the same in operative position, and electro-magnetic means for moving said lever out of engagement with said trigger.

1,348,018. METHOD OF BUILDING CONSTRUCTION. FRED LICHTENBERG and MICHAEL M. MCCARTHY, Yonkers, N. Y. Filed Oct. 13, 1919. Serial No. 330,161. 1 Claim (Cl. 72—46.)

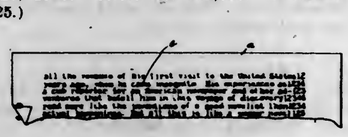
A wall construction comprising vertical spaced studding, a plurality of slabs of planted material nailed to said studding in broken joint formation with the edges of the

slabs in spaced relation, each slab having a reinforcing element molded therein in a form of a sheet of woven wire fabric the edges of which extend beyond the edges of the slab, the vertical strands of said reinforcing element being looped at each end, a horizontal strand straight with each end said loop being arranged between the loop of reinforcing element of adjacent slab and the projecting edges of the horizontal strands being arranged in over



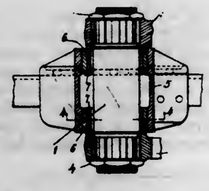
lapping relation with respect to the projecting edges of the reinforcing element of adjacent slabs, a covering of tar paper upon the rear face of each slab said paper projecting beyond the edges of each slab to a distance corresponding to the extent of projection of the reinforcing element thereof whereby said paper edges of adjacent slabs may be overlapped, and a bond of plastered material filled in between the slabs.

1,348,019. METHOD OF PREPARING PLATES FOR PRINTING. MALVIN LICHTER, New York, N. Y. Filed Oct. 23, 1919. Serial No. 332,695. 2 Claims. (Cl. 41—25.)



1. The method, herein described, of making a printing plate, which consists in preparing a typewritten sheet having intelligible characters arranged in lines of different lengths and providing means thereon for indicating differences in the length of said lines, copying upon a second sheet lines coinciding in subject matter with said first mentioned lines but of uniform length, and making a printing plate from said second mentioned sheet.

1,348,020. FRICTION-PIVOT. BENJAMIN LIEBOWITZ, New Rochelle, N. Y. Filed July 31, 1919. Serial No. 314,558. 3 Claims. (Cl. 64–10.)



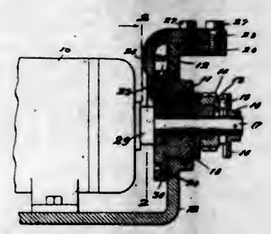
3. In a friction pivot which is maintained continuously under load, the combination of a pivot pin, a bearing, and a bushing, said elements constituting two pivot-pairs, one of said pivot-pairs being adapted for rolling motion through a predetermined angle of rotation by having the inner element of said pair of smaller radius than the outer, the ratio of the radii being such as to cause a sliding tendency when said predetermined angle has been exceeded, the other of said pivot-pairs being adapted for sliding motion whereby the sliding tendency set up in the rolling pivot-pair will cause sliding rotation of the sliding pivot-pair, without causing any appreciable sliding in the rolling pivot-pair.

1,348,021. STAY-SECURING DEVICE. MARY A. LILLIBRIDGE, Waterford township, Erie county, Pa. Filed Aug. 13, 1919. Serial No. 317,272. 6 Claims. (Cl. 2–76.)



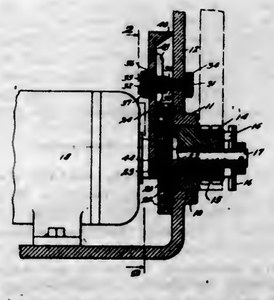
4. In a stay securing device, the combination of a clip, said clip having two snap fastener sockets; a wire forming the spring for said sockets extending across the end and along the edge of the clip; a fold along the edge of the clip for securing the wire; and a fastener plate for operating in the sockets, said plate and clip forming a means of attachment to a pocket and forming a stop preventing the protrusion of the stay therefrom.

1,348,022. LOCKING DEVICE FOR ECCENTRIC BUSHINGS. FRANCIS JOSEPH MCAVOY, Newark, N. J. Filed Sept. 30, 1919. Serial No. 327,382. 3 Claims. (Cl. 64—53.)



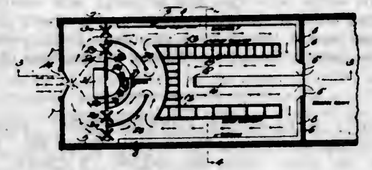
1. In an internal combustion motor, an eccentric bushing mounted to turn in a fixed bearing, and a detachable locking member adjacent one face of the bushing, the said bushing and the said locking member having a plurality of interlocking members to hold the bushing against turning in any one of a series of adjusted positions.

1,348,023. LOCKING DEVICE FOR ECCENTRIC BUSHINGS. FRANCIS JOSEPH MCAVOY, Newark, N. J. Filed Jan. 17, 1920. Serial No. 352,096. 3 Claims. (Cl. 64—53.)



1. In an internal combustion motor, an eccentric bushing provided with spaced recesses arranged in a circle concentric to the peripheral face of the bushing, a bracket provided with pins adapted to engage sundry of the said recesses, and fastening means detachably fastening the bracket to a fixed part of the motor, the said bracket when fastened in place by the said fastening means holding the bushing against turning, and the said bracket when unfastened by the said fastening means serving as a spanner wrench to turn the bushing.

1,348,024. SELF-SERVING STORE. WILLIAM B. MCCARTY, Jackson, Miss. Filed June 7, 1919. Serial No. 302,451. 1 Claim. (Cl. 211—8.)



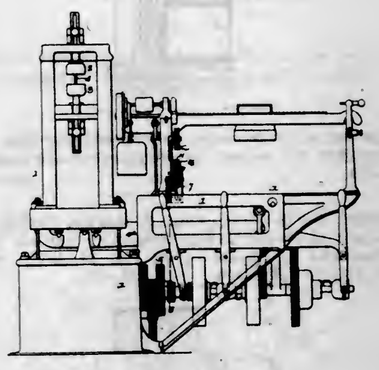
In a store for the vending of merchandise, a storage inclosure provided with shelving extending along its side walls and rear wall, said inclosure having an attendant's desk in the middle of its front portion, a merchandise holder extending from the middle of the rear portion of the inclosure toward the said attendant's desk, a substantially U-shaped merchandise holder having its bight portion disposed between and spaced from said desk and from the first said merchandise holder a distance to permit persons to pass one another through the spaces thus provided, the other parts of said U-shaped merchandise holder being spaced from the said wall shelving and from the first said merchandise holder a distance to permit persons to pass therebetween, all parts of said U-shaped merchandise holder being sufficiently low to permit an attendant at said desk to see persons on all sides of said U-shaped merchandise holder, rearwardly bowed partitions extending forward and laterally from points midway between said merchandise holder and attendant's desk to points midway between said side walls and said attendant's desk to form walled entrance passages and exit passages which are in open communication with said passageway through a doorway between said partitions, exclusively entrance gates in said entrance passages, and exclusively exit gates in said exit passages the latter being between said rearwardly bowed partitions and the said attendant's desk.

1,348,025. SOAP AND APPLICATOR HOLDER. CHARLES A. MAHER, Wallowa, Oreg. Filed Apr. 10, 1919. Serial No. 289,166. 3 Claims. (Cl. 132—33.)



1. A combined shaving soap and applicator holder comprising a receptacle for soap, open at one end and closed at the other, a cap member for closing the open end of said receptacle, said cap member being provided with a threaded socket at one end, threads on the open end of the receptacle to be engaged by the threads on the socket of the cap member, and an applicator having its inner portion exteriorly threaded to engage the threads of the socket, and having a projecting extension.

1,348,026. MACHINE FOR TESTING. ALEXANDER P. MALYSHEFF, Tomsk, Russia, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 7, 1916. Serial No. 130,033. 4 Claims. (Cl. 265—16.)



1. The combination of a machine for causing deformation of a test specimen; weighing mechanism for indicating the amount of stress applied to said specimen; and means for indicating the combined deformation of said specimen and of the machine.

2. The combination in a testing machine of a member connected to a test specimen; a train of mechanism for moving said member to cause deformation of said specimen; and a device connected to said mechanism for indicating the combined deformation of the specimen and of said mechanism.

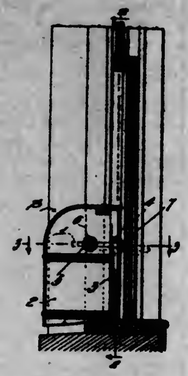
3. The combination in a testing machine of a fixed and a movable member for connection to a test specimen; mechanism including a rotary element for causing one of said members to move relatively to the other to exert stress upon said specimen; a device including an element driven from said rotary member; and an indicator mounted to coöperate with said element to show the combined deformation of the machine and specimen.

4. The combination in a testing machine of two members for engaging a specimen under test; mechanism including a rotary element for moving one of said members relatively to the other to exert a stress upon said specimen; a sprocket operatively connected to said element; a rotary shaft; a second sprocket on said shaft; means for operatively connecting said sprockets; a graduated disk on the shaft; with a relatively fixed indicator extending adjacent the graduated disk.

1,348,027. FOOD-SAFE FOR WINDOWS. JOHN MARKWICK, Detroit, Mich. Filed Dec. 18, 1919. Serial No. 345,690. 1 Claim. (Cl. 45—104.)

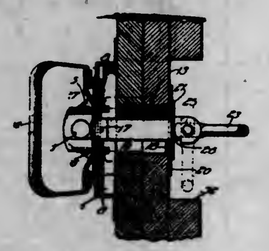
A food safe having end walls cut from their inner faces to provide fastener receiving pockets and bored from their edge faces to provide bolt receiving passages intersecting the fastener receiving pockets, securing strips engaging the edge faces of the end walls and having trans-

versely extending slots, securing bolts extending through the slots of the strips and through the passages of the end walls to slidably connect the strips with the end walls



for movement transversely thereof, and securing nuts positioned in the fastener receiving pockets and engaging the bolts.

1,348,028. DOOR-LOCK. CECIL R. MARTIN, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a Corporation of Illinois. Filed July 29, 1918. Serial No. 247,335. 22 Claims. (Cl. 292—49.)



1. A door lock comprising a stationary element, a rotary cam, pivoted members arranged above and below said cam and having end portions forming latching means to engage said element, a rock-shaft extending through said cam, a casing for said mechanism, means to secure said casing to the outer side of the door, a handle disposed on the casing to turn said shaft, a plate secured on the inner side of the door, a disk on the shaft inside of said plate, and a handle secured to said disk to turn the shaft.

1,348,029. METHOD AND APPARATUS FOR TREATING FILMS. JOSEPH MASON, New York, N. Y., assignor, by mesne assignments, to Prisma Incorporated, a Corporation of Maine. Filed Mar. 14, 1919, Serial No. 282,527. Renewed Feb. 19, 1920. Serial No. 359,851. 15 Claims. (Cl. 91—69.)



1. The step in treating a surface with a liquid which consists in holding the surface adjacent the liquid and maintaining contact of the liquid and the surface by the tension of the liquid.

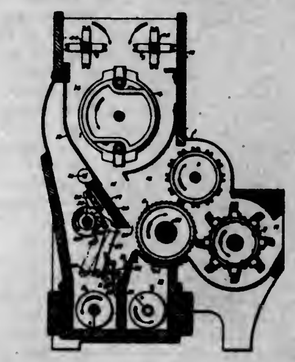
11. A film treating apparatus comprising a constant level tank, and film supporting means extending longitudinally of the tank and having supporting surfaces located relatively to the liquid level so as to support the film in surface contact with the liquid and within the limits of surface tension thereof.

1,348,030. AUTOMOBILE-BUMPER. WILLIAM J. MILLARD, New York, N. Y. Filed June 12, 1919. Serial No. 303,554. 2 Claims. (Cl. 293—55.)



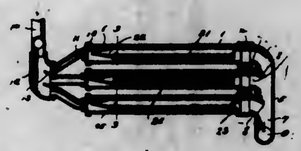
1. A vehicle bumper comprising a metal bar adapted to be secured to the vehicle, and a bar of cushioning material secured against the outer side of said metal bar with its entire outer face free of metal, said cushioning bar being of solid formation except having closely spaced openings formed therethrough to provide freely yieldable webs connecting the outer and inner side portions of said bar.

1,348,031. HULL-BOARD CONSTRUCTION. JOHN E. MITCHELL and DENNIS PARKS, St. Louis, Mo. Filed Mar. 29, 1919. Serial No. 285,996. 6 Claims. (Cl. 13—12.)



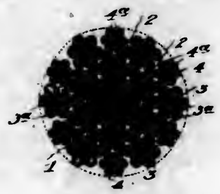
2. A boll breaking and cotton separating machine affording a working chamber for receiving the mixed cotton and hulls to be separated and having an outlet for hulls, cotton separating mechanism including a saw cylinder operating in said chamber, a hull board coöperating with said saw cylinder, the bottom of which defines the size of an opening past the saw cylinder for the escape of hulls, means operating periodically to move said hull board to widen said opening to discharge accumulated products from said chamber, and means operating to separately deliver such discharged products from the hulls normally escaping through said opening.

1,348,032. AUTOMOBILE-HEATER. MASON C. MOODY, Fairfield, Ala. Filed Oct. 15, 1919. Serial No. 330,765. 4 Claims. (Cl. 257—248.)



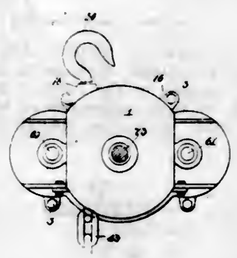
2. A sectional radiator for use as described, each section consisting of a flue with means for directing a heating fluid longitudinally throughout its length, a core consisting of a pipe containing a heat-retaining filling, and spiders for holding the core along the axis of the flue.

1,348,033. WIRE ROPE. GEORGE C. MOOR, Cranford, N. J. Filed Mar. 17, 1920. Serial No. 366,644. 5 Claims. (Cl. 28—5.)



3. A wire rope or cable comprising an inner series of strands each having a plurality of wires twisted together and all laid side by side in the same direction, and an outer series of strands laid in the same direction as the inner strands, said outer strands each having a plurality of wires twisted together, the wires of some of the outer strands being larger than the wires of other outer strands, the latter strands being of less diameter than the outer strands having the larger wires.

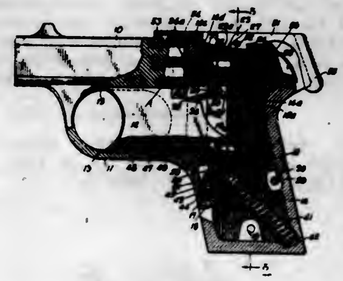
1,348,034. HOIST. EDWARD Y. MOORE, Cleveland, Ohio. Filed Oct. 17, 1919. Serial No. 331,416. 6 Claims. (Cl. 254—171.)



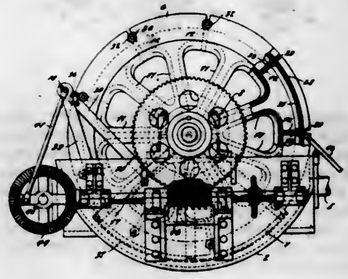
1. In a hoist, the combination of a frame made up of two box-like castings bolted together face to face, each of said castings having a vertical wall with a central bearing opening and peripheral walls inclosing said vertical walls, the forward one of said castings having an intermediate wall with a central opening and forming two chambers within said frame, the rear one of said castings having its peripheral wall projecting rearwardly of the vertical plate therein, said intermediate wall and the vertical wall of the rear casting having alined bearings, stub shafts mounted within said bearings having gears thereon, a third casting secured to said rearwardly projecting peripheral wall and constituting therewith an inclosed housing for said gears, a driving shaft within the bearing openings in said vertical walls, having a driving gear thereon in mesh with said first named gears, a lift wheel surrounding said driving shaft comprising a single integral member having pockets in one chamber and gear teeth in the other chamber and an intermediate circular zone closely coacting with the edge of the opening in the intermediate wall, said gear teeth being formed on an enlarger portion and constituting a driven gear, and yokes actuated by said stub shafts in engagement with said driven gear.

1,348,035. FIREARM. OSCAR F. MOSSBERG, New Haven, Conn. Filed Aug. 28, 1919. Serial No. 320,494. 17 Claims. (Cl. 42—8.)

5. A firearm including a frame, a hammer supported by the frame, a barrel swingably mounted on the frame, and a trigger for actuating said hammer, said trigger being carried by said barrel to partake of the swinging movements thereof and being movable out of operative relation to the hammer upon movement of the barrel to any angular position relatively to its normal position.

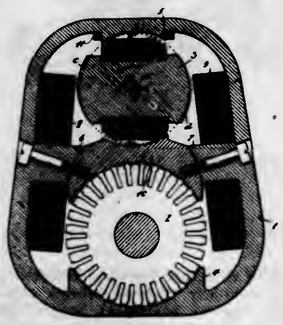


1,348,036. FILTER. WILLIAM D. MOUNT, Lynchburg, Va. Filed Dec. 11, 1919. Serial No. 344,227. 6 Claims. (Cl. 210—202.)



1. A filter comprising a rotary drum having two peripheral flanges and a series of successively arranged interchangeable grids mounted between said flanges and constituting the peripheral surface of the drum and a single clamping device for simultaneously securing the two abutting edges of adjoining grids to the drums.

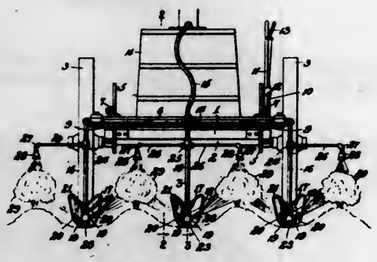
1,348,037. DYNAMO-ELECTRIC MACHINE. ALFONS H. NEULAND, San Francisco, Calif. Filed Nov. 24, 1916. Serial No. 133,111. 11 Claims. (Cl. 171—313.)



1. A generator comprising a magnetic casing including an intermediate transverse double-faced pole member, an

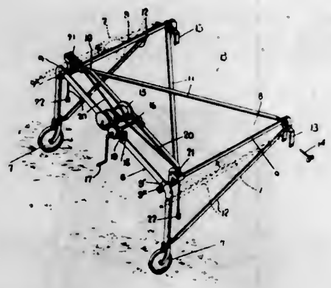
armature on one side of the pole member adapted to be driven at variable speeds and coöperative with one of the pole faces, a rotative magnetic shunt member on the other side of the pole member coöperative with the other pole face and having a limited movement during which the number of lines of force shunted ranges from a minimum to a maximum, and a field coil so disposed on the pole member that the two pole faces are of the same polarity.

1,348,038. SPRAYER FOR PLANTS. HORACE FALK NEUMEYER, Macungie, Pa. Filed Jan. 18, 1919. Serial No. 271,822. 6 Claims. (Cl. 299—39.)



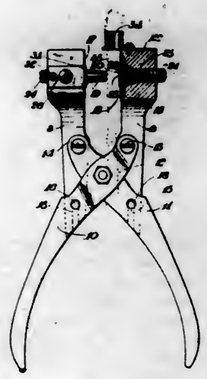
1. A sprayer comprising a suitable vehicle, shares constituting lifting devices for fallen or depressed parts of the plants, means located in rear of said shares and adapted to travel on the ground to maintain the points of the shares either on or slightly above the surface of the ground, and spraying nozzles carried by the shares in rear thereof and tilted toward opposite sides thereof at a rising angle for directing sprays upwardly against the under sides of the plants.

1,348,039. HARROW-TRUCK. BAYARD B. NICELEY, Luttrell, Tenn. Filed Oct. 17, 1919. Serial No. 331,367. 7 Claims. (Cl. 280—61.)



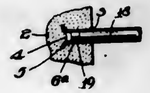
4. A truck of the class described comprising a wheeled frame of substantially U-shape, wheels attached to the ends of said frame, a horizontal frame adjustably connected with the cross piece of said wheeled frame, forks at the free ends of said horizontal frame, a drum on the truck, a cable attached to the drum and winding means for the drum

1,348,040. RIVETING-TOOL. SAMUEL R. NICHOLS, Shelton, Nebr. Filed June 6, 1919. Serial No. 302,331. 4 Claims. (Cl. 128—330.)



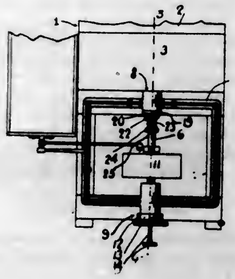
1. In a tool for attaching identifying tags to animals, the combination with tag applying means including movable jaws, of a gage member carried by one of the jaws for gaging the thickness of the flesh to which the tag is to be applied.

1,348,041. ARTIFICIAL TOOTH AND METHOD OF MAKING THE SAME. EDWARD PELTZ OFF, Philadelphia, Pa., assignor to The Dentists' Supply Company, New York, N. Y., a Corporation of New York. Filed July 25, 1918. Serial No. 246,681. 5 Claims. (Cl. 32—9.)



1. An artificial tooth having a vitrified body provided with a hole having at the bottom a lateral curved undercut groove, combined with a metal anchor mechaically fitting the hole and attached in the bottom of the hole by having its lower end curved laterally and crowded into the undercut groove to substantially fill the same.

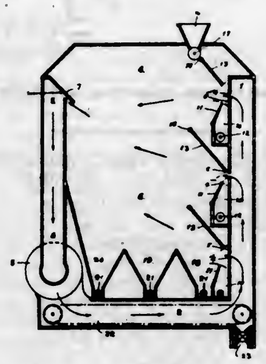
1,348,042. BEARING. WILLIAM JOHN PALMER, Northwilkesboro, N. C. Filed Nov. 24, 1919. Serial No. 340,387. 1 Claim. (Cl. 83—8.)



In combination with a grist mill having a stationary grinding stone, a revoluble grinding stone, a shaft for

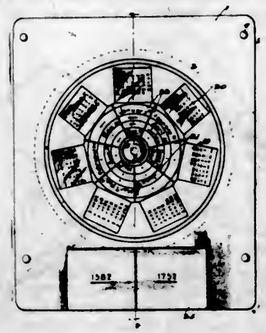
the latter, means for moving the shaft longitudinally, a frame on which the shaft is journaled, and means for revolving the shaft; of a bearing for holding the shaft against accidental longitudinal movement to prevent the confronting faces of the mill stones being brought into excessive frictional engagement, said bearing comprising a cup member loosely mounted on the shaft and having its closed face contacting with one of the sides of the frame, anti-frictional elements in said cup-shaped member, a disk member loose on the shaft received in the cup-shaped member and contacting with the anti-frictional elements therefor, a spring surrounding the shaft and contacting with the disk, and an adjustable collar on the shaft and engaging with the spring.

1,348,043. BROKEN-GRANULAR-MATERIAL AND GRAIN PURIFYING MACHINE. TOM PARKINSON, Dunston-on-Tyne, England. Filed Nov. 10, 1919. Serial No. 336,927. 3 Claims. (Cl. 83—40.)



3. In a machine for separating and grading material a casing having a series of hoppers arranged in superimposed relation and adjustable to vary the size of their entrance openings, means for directing a blast of air across the upper open end of each hopper, means arranged beyond each hopper for directing material forced by the blast beyond the hopper into the path of the blast of the next lowermost hopper, and material receiving hoppers arranged in the casing beyond such directing means.

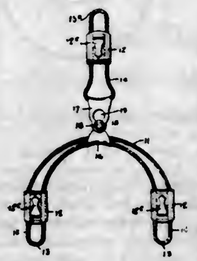
1,348,044. PERPETUAL CALENDAR. ROBERT PENTLAND, Jacksonville, Fla. Filed Dec. 3, 1919. Serial No. 342,074. 7 Claims. (Cl. 40—113.)



1. In a perpetual calendar, members, one rotatable with relation to the other, one member bearing upon one face

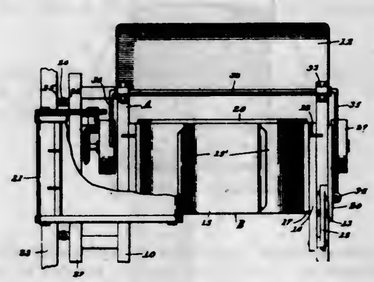
an annular series of year ordinals, the other member bearing an annular series of centurial year ordinals adapted to be selectively positioned in relation to the year ordinals of the first mentioned member in the rotation of one of the members with relation to the other, one of the said members bearing groups of month designations, and the other member bearing a plurality of monthly calendars adapted to be brought into juxtaposition with relation to the month designations through the rotation of one of the members with relation to the other.

1,348,045. HOSE-SUPPORTER. ALONSO D. PERALTA, Guatemala City, Guatemala. Filed Apr. 22, 1919. Serial No. 291,830. 3 Claims. (Cl. 24—258.)



1. A device of the class described including a suspender end presenting separate side members formed into a loop into which a portion of a garment may be passed, and a slide movable on said side members and into which said loop may be drawn with the engaged portion of the garment, said slide having swingable clamp means to grip the received loop and garment portion.

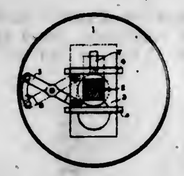
1,348,046. SHOCK-FORMER. ANDREW R. PETERSON, Fargo, N. D. Filed June 13, 1919. Serial No. 303,854. 7 Claims. (Cl. 56—419.)



2. A grain binder attachment comprising a portable frame, spaced parallel standards on said frame, arms pivoted on said standards, a shock former including a plurality of curved sections unitedly defining a split band, one of said sections being terminally secured to said arms, the remaining corresponding end sections being freely pivoted on said arms, means carried by said end sections and coöperating with said arms whereby said sections are normally maintained in proper relation to define said band, said band being normally disposed vertically to receive the sheaves in horizontal position, means for moving said arms to a position whereby said sections of the band are simultaneously adjusted to arrange the shock verti-

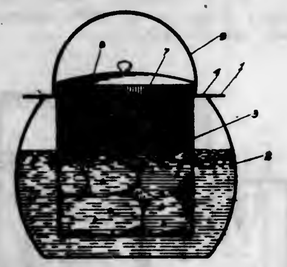
cally and means whereby the end sections remain stationary upon further adjustment of said arms to move the sections thereby in a position to release said shock.

1,348,047. DOOR-HANDLE-LOCKING DEVICE. JOHN MOFFETT PETERSON and JOHN MEREDITH, Newcastle-on-Tyne, England. Filed Mar. 3, 1916. Serial No. 81,875. 1 Claim. (Cl. 292—359.)



The combination with a door knob spindle and rose plate having a relatively short slot extending along a marginal portion thereof, of a locking plate for the spindle supported for sliding movement upon the rose plate into and out of locking engagement with the knob spindle, means for retaining the locking plate in position out of locking engagement with the knob spindle, and operating means for the locking plate comprising a lever pivotally supported intermediate its ends upon the rose plate within the outer marginal edge portion thereof and to one side of the locking plate, a pivotal connection between one end of said lever and the locking plate at one side thereof, and a finger manipulating part connected to the other end of the lever and extending through the slot to the front side of the plate.

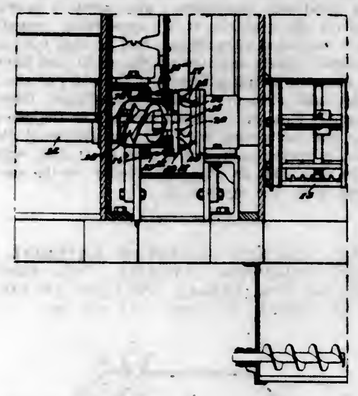
1,348,048. COOKING UTENSIL. ROSE PFEFFER, San Jose, Calif. Filed Nov. 4, 1919. Serial No. 335,656. 1 Claim. (Cl. 53—8.)



A cooking utensil comprising in combination with an open-topped pot, a flat perforated rim adapted to rest on the upper edge of the pot, a freely perforated receptacle depending from the rim into the pot, and spaced therefrom throughout its length, a flange on the rim above the receptacle, and a steam tight cover over the receptacle and removably held by the flange, the latter extending around the inner periphery of the rim.

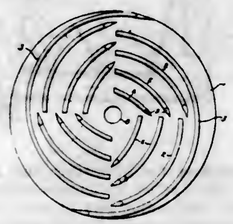
1,348,049. FLOUR-MILL. EDSON T. POLLARD, Niagara Falls, N. Y., and WILLIAM N. MORLEY, Toronto, Canada. Filed Dec. 8, 1919. Serial No. 343,300. 3 Claims. (Cl. 83—13.)

2. An improved disintegrator comprising a casing having openings, a rotating worm member in said casing, a ring or disk normally closing the delivery end of said casing and provided with arms extending loosely through said openings, lugs on said casing, adjustable bolts mounted in



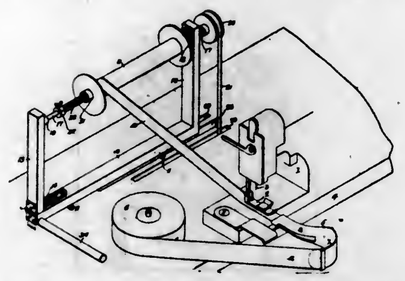
said lugs, and springs connecting said bolts with said arms.

1,348,050. POLISHING-WHEEL. RALPH W. PUTNAM, Waterbury, Vt. Filed Nov. 26, 1919. Serial No. 340,767. 2 Claims. (Cl. 51—1.)



1. A device of the character stated, comprising a disk or plate, a scroll on the under face of the disk or plate, said scroll of general spiral form and composed of a plurality of series of curved flanges extending approximately one-quarter distance around the disk or plate with the forward ends of the flanges of one radial series located between the flanges of adjacent radial series.

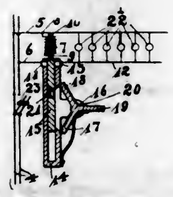
1,348,051. MACHINE FOR MAKING TUBULAR BINDING. PAUL D. REDCAY, Royersford, Pa. Filed Oct. 22, 1918. Serial No. 259,213. 4 Claims. (Cl. 112—2.)



1. The combination in a machine for making tubular fabric, of a device for folding the fabric; a machine for uniting the edges of the fabric; a spool mounted to receive

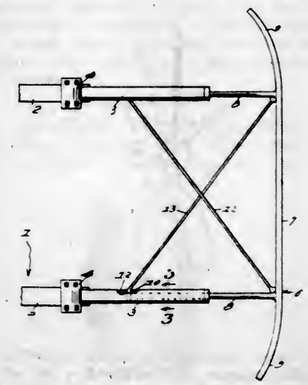
the fabric in a flat condition with the stitching at one edge; means for driving the spool so as to take up the fabric as it is stitched; and means for causing the spool to travel in the direction of its axis and transversely to the direction of feed of the fabric.

1,348,052. CONTACT. THOMAS B. RIDER, Los Angeles, Calif., assignor of one-half to Adolphe Danziger, Los Angeles, Calif. Filed Feb. 9, 1918. Serial No. 216,286. 1 Claim. (Cl. 171—97.)



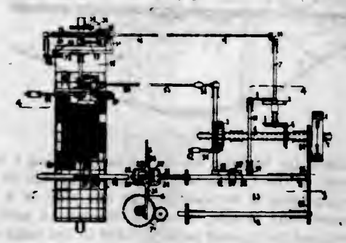
In a contact in combination with a main circuit and a branch circuit, the contact being inserted in the branch circuit, a housing made of insulation material having an open end, two conducting pieces provided near the open end within the non-conducting material of the housing having connection with one line in the branch circuit forming a gap in that line, a solenoid connected to the other line in the branch circuit opposite the open end of the housing with the core end of the solenoid spaced a suitable distance from the open end of the housing, the second end of the winding of the solenoid being connected to the core thereby forming a gap in the circuit of the solenoid between the two lines in the branch circuit, and an operating member shiftably disposed in the housing adapted for closing the gap in the first named line of the branch circuit and for closing the gap in the solenoid circuit when so operated, the operating member being of suitable material so as to be held in such closing position by the solenoid when so operated.

1,348,053. AUTO-BUMPER. THOMAS L. ROBERTSON, Spray, N. C. Filed Nov. 19, 1918. Serial No. 263,207. 1 Claim. (Cl. 293—55.)



In a vehicle bumper, a pair of housings having means for attachment to the frame of a vehicle, a bumper formed with legs slidingly engaging said housings, springs within the housings and bearing upon the legs to force them and the bumper normally outward, the housings being formed with slots on their facing sides, and diagonally disposed brace bars each connecting with the spring in one housing and with the bumper at a point directly in front of the opposite housing, whereby a shock imparted to the bumper is borne by both springs irrespective of the point of impact of said shock with the bumper.

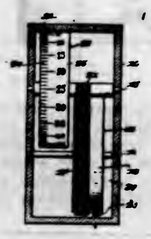
1,348,054. EMBROIDERING-MACHINE. JOHANNES GERARD FREDRAIK ROOKER, Vrijenban, near Delft, Netherlands, assignor to Firma A. De Jong, Scheepswerf en Machinefabriek, Vlaardingen, Netherlands, a Corporation of The Netherlands. Filed May 24, 1917. Serial No. 170,682. 10 Claims. (Cl. 112—102.)



8. In an embroidering machine, the combination with a sewing machine having a feed claw, of a rotatable drum having on its periphery depressions and projections, a sliding pin adapted to engage the depressions and projections of the drum, a sliding and spring actuated rod, means for operating the pin from said rod, means for operating the rod from the sewing machine, and means for adjusting the feed claw of the machine from the said rod.

6. In an embroidering machine, the combination with a sewing machine having a clutch, of a rotatable drum having projections, a ratchet wheel on the shaft of the drum, pawls engaging the ratchet wheel, a shaft, a weighted lever mounted on the shaft and adapted to be engaged and turned by said projections, a sector on the shaft of the lever and provided with two stops adapted to be engaged by the lever, a connection between the sector and the clutch of the machine, a second sector on the shaft of the said lever and provided with an extension adapted to engage one of the pawls to disengage it from the ratchet wheel, and a link connection between the second sector and the other pawl to disengage it from the ratchet wheel.

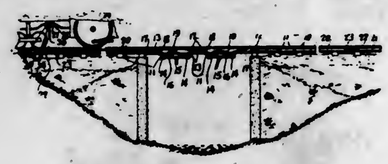
1,348,055. GRADOMETER. RAYMOND A. SAEGER, Ankona, Fla. Filed May 14, 1918. Serial No. 234,445. 1 Claim. (Cl. 33—215.)



In a gradometer, two spaced shafts, a core having a round periphery and one of its faces open secured on one of said shafts, said core having a flange extending over its periphery from the closed face thereof, a toothed band arranged on the core and contacting with the flange thereof, a pinion on the second shaft meshing with the toothed band and also contacted by the flange of the core, a graduated wheel on the second shaft, a segmental

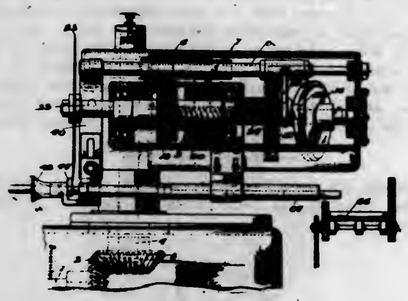
weight in the core, means on the outer edge of the core contacting with the weight for holding the same in the core, a spring brake contacting with the periphery of the core and means for adjusting the pressure of said brake against said core.

1,348,056. SAFETY DEVICE FOR RAILROADS. NORRIS J. SAULS, Plant City, Fla. Filed Nov. 13, 1918. Serial No. 262,316. 2 Claims. (Cl. 246—120.)



1. A means for braking an engine approaching a trestle in the event of the trestle being damaged by fire or other causes, comprising a divided trip at one side of a track which crosses the trestle, a rod connected to said trip, levers arranged in opposed pairs pivoted to the sides of the trestle, weighted means connected on the opposed pairs of levers, fusible and brakable plates connected to the under face of the trestle and supporting thereon the weighted means of the confronting pairs of levers and causing the said pairs of levers to assume opposite angular positions, and connecting means between the rod and levers for normally retaining the trip in its lower horizontal position.

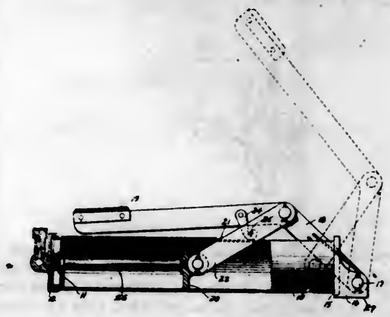
1,348,057. CUTTING ATTACHMENT FOR CIGARETTE-MACHINES. FREDERICK C. SCHOFIELD, Salem, Va., assignor to Comas Cigarette Machine Company, Salem, Va., a Corporation of Virginia. Filed Nov. 4, 1918. Serial No. 261,103. 7 Claims. (Cl. 131—37.)



1. In a device of the character described, the combination of a cutter shaft and its cutter, a casing within which said cutter shaft is eccentrically journaled, means for moving said shaft back and forth within said casing, and means for imparting a rotary motion to said casing and thereby giving an eccentric movement to the cutter shaft.

1,348,058. FOOT-PUMP. WILLIAM FORD SERVICE, Poughkeepsie, N. Y., assignor, by mesne assignments, to Charles Hardy and Charles H. Potter, New York, N. Y. Filed July 2, 1917, Serial No. 178,082. Renewed Sept. 30, 1919. Serial No. 327,476. 7 Claims. (Cl. 230—27.)

1. A foot pump, comprising a rigidly mounted cylinder and a piston movable therein, a lever provided with a foot piece and directed backwardly over the cylinder toward the outlet end thereof to close down on the cylinder, said lever being pivotally secured to said cylinder at its opposite end, resilient means to normally hold said lever in raised position, a crosshead reciprocable in said cylinder, attached to said piston and movable to the lever end of the cylinder, and a link forming a toggle connection between said cross head and the foot lever and passing through a slot in a portion of the upper surface of said cylinder to reciprocate the piston when the said foot lever is actuated.



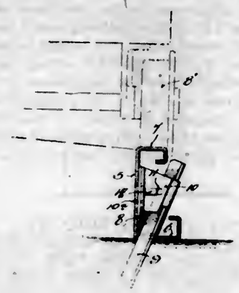
6. A pump comprising a cylinder, a piston movable within the cylinder, an operating lever, a connecting member connected with the lever extending through an opening into the cylinder and into connection with the piston, a pivot pin upon which the lever is mounted, a pair of lugs carried by the cylinder spaced apart and spaced from opposite sides of the lever serving to support the opposite ends of the pivot pin, and resilient means carried by the pivot pin at opposite sides of the lever and between said lugs engaging the lever to serve the double purpose of urging the lever to one position of swing and of retaining the lever in desired relation to the opening into the cylinder.

1,348,059. JAR-LIFTER. ALBERT KENNETH SHEPPARD, Port Moody, British Columbia, Canada. Filed Nov. 25, 1919. Serial No. 340,621. 3 Claims. (Cl. 294—106.)



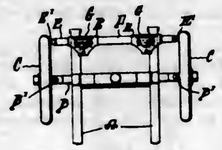
1. A jar lifter comprising a handle including a rod, a frame slidably mounted upon said rod, a pair of clamping jaws pivotally mounted upon the lower end of said frame, a finger engaging element forming part of the frame, divergently disposed arms projecting from said rod, eyes formed on the adjacent ends of said jaws, and slidably fitted on said arms whereby said jaws are opened and closed by movement of said frame in opposite directions, and coiled springs interposed between said handle and finger engaging element and encircling said rod for the purpose specified.

1,348,060. ANCHOR AND SUPPORT FOR CONCRETE-ROAD FORMS. CLARENCE D. SHEPPARD, Milwaukee, Wis. Filed Dec. 29, 1919. Serial No. 348,092. 6 Claims. (Cl. 238—5.)



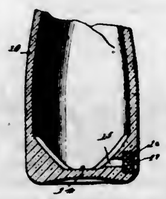
1. The combination with a road form having a lateral support foot, of a channel member secured to the form and inclined downwardly and inwardly toward the juncture of said lateral foot with the body of the form and a stake member insertible in said channel.

1,348,061. AUTOMATIC DIRECTOR FOR HEAD-LIGHTS. ROBERT HARPER SHIVERS, Atlanta, Ga. Filed Jan. 15, 1920. Serial No. 351,536. 8 Claims. (Cl. 240—62.)



1. An automatic director for head lights for wheeled vehicles provided with tires and head lights carried on standards, comprising a sleeve with means for attaching said sleeve to the body frame of the vehicle, a bar of slightly less length than the distance between the adjacent wheels of the vehicle, slidably mounted in said sleeve, said bar being provided at each end with a roller adapted to engage the side face of the adjacent tire, and also with notches to engage the standards of the head lights, boxes connected to said sleeve, and arms pivoted in said boxes and engaging said standards near their lower ends, substantially as described.

1,348,062. CREAM-SEPARATING MILK-BOTTLE. JENNIE M. SHOOK, Phoenix, Ariz. Filed May 5, 1919. Serial No. 294,983. 1 Claim. (Cl. 215—70.)



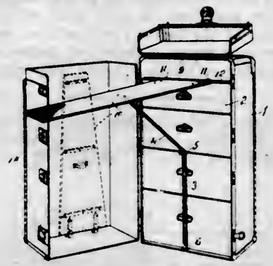
A milk container comprising a body open at its upper end, means for closing said open upper end, means for permitting entrance of air within said body, the lower portion of the wall of said body being thickened at opposite points whereby to form a trough structure, said body being provided with a hole extending horizontally through one of said thickened portions, and a threaded plug normally closing said hole and having its outer end flush with the outer surface of said body, said trough structure serving to conduct milk to said hole.

1,348,063. POLE. JAMES EDWIN SMITH, Pueblo, Colo. Filed Sept. 7, 1918. Serial No. 253,116. 1 Claim. (Cl. 189—23.)



A pole comprising a pair of parallel vertically extending channel iron members, cross strips connecting the members intermediate their ends, a base comprising parallel vertically extending channel iron members, said members being so spaced as to receive the lower ends of the first mentioned channel iron members therebetween, cross strips connecting the channel iron members of the base, and strips secured to the lower ends of the first mentioned channel irom members and upper ends of the base channel iron members, said strips extending transversely of said channel iron members and beyond the outer faces thereof.

1,348,064. IRONING-BOARD. CHAUNCEY I. SPAYD, Kansas City, Mo. Filed Oct. 1, 1919. Serial No. 327,747. 7 Claims. (Cl. 190—13.)

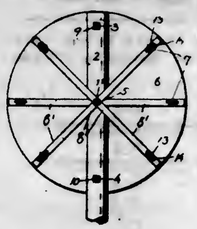


1. In a device of the kind described, a casing provided with one or more drawers, an ironing board having means for attaching to the casing, and a brace having means for attachment to the casing so as to lock the drawers closed, and arranged, when in the unlocked position, to engage and support the ironing board in a horizontal position.

1,348,065. SIGN. JAMES W. STONEHOUSE, Denver, Colo. Filed Nov. 5, 1919. Serial No. 335,894. 1 Claim. (Cl. 40—145.)

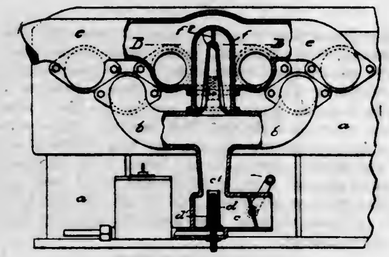
In a sign, a post, having a perforation, a planular sign face in contact with said post and having a central perforation, a plurality of angularly related diametric strut braces each adjustably secured at each end to opposite marginal portions of said sign face, engaging the post

upon the side thereof opposite to said sign and having a central perforation, and a bolt engaging the perforations



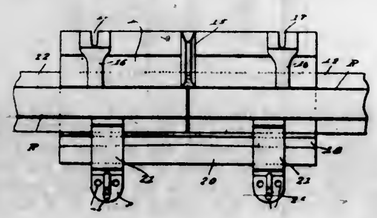
of said sign, said post and said braces and adapted to adjust the sign and braces relatively, to draw them together and hold them in contact with said post.

1,348,066. METHOD OF FURNISHING EXPLOSIVE MIXTURE TO INTERNAL-COMBUSTION ENGINES. PERCIVAL S. TICE, Detroit, Mich. Continuation of application Serial No. 199,349, filed Oct. 23, 1917, which was a division of application No. 101,457, filed June 3, 1916. Shis application filed May 26, 1919. Serial No. 300,006. 3 Claims. (Cl. 123—122.)



1. The method of furnishing an explosive mixture to an internal combustion engine which consists in first producing by the suction of the engine a rich mixture of liquid fuel and air at substantially normal temperature by aspiration; and next heating such rich mixture to the vaporizing point of the liquid fuel particles, and finally, thoroughly intermixing such vaporized mixture with an additional quantity of air at a lower temperature.

1,348,067. RAIL-JOINT. JOSEPH TAKACS, Westville, Ill. Filed July 26, 1919. Serial No. 313,442. 1 Claim. (Cl. 238—198.)

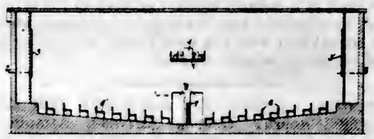


A rail joint comprising a chair including a base plate, a connecting bar extending inwardly and upwardly from one edge of the base plate over the base flange of the rail and entering the fishing space of the latter for contact with the rail web, a T-shaped flange extending along the opposite edge of the base plate, a clamp removably positioned at each end of the T-shaped flange and slidably engaging the latter for contact with the adjacent face of the rail web and an extension provided on each clamp and adapted to be secured to the ties of a road bed.

1,348,068. PROCESS FOR THE TREATMENT OF MANGANESE ORES. GEORGE D. VAN ARSDALE and CHARLES G. MAIER, New York, N. Y. Filed May 9, 1918. Serial No. 233,545. 8 Claims. (Cl. 23—13.)

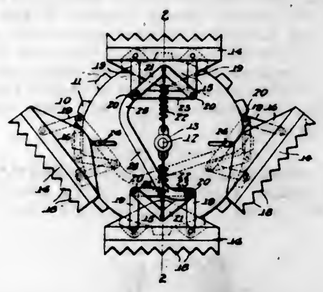
1. That step in a process for the treatment of ores containing manganese and also containing small quantities of other metalliferous substances, the sulfur salts of which are water soluble and capable of acting as sintering agents, for the extraction of the manganese in form suitable for metallurgical use, which comprises subjecting the ore or the like, suspended in water, to the action of an oxid of sulfur capable of converting the manganese content and the said other metalliferous contents into water soluble salts.

1,348,069. MOVING-PICTURE THEATER. EDWIN W. VAN FLEET, Los Angeles, Calif., assignor of one-half to Donato Cozzolino, Los Angeles, Calif. Filed Apr. 7, 1917. Serial No. 160,418. 2 Claims. (Cl. 88—24.)



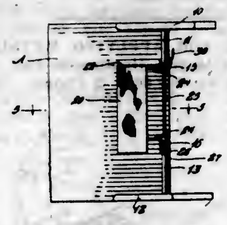
1. In a moving picture theater, facing receiving screens, a series of rows of chairs facing each of the screens, a partition separating the series of rows facing the opposite screens, the series of rows facing the screens being located on the side of the partition remote from the screen the rows are facing, and a platform above the partitions adapted to receive the means for projecting images on the screens.

1,348,070. TRACTOR-WHEEL. FLETCHER W. WHITAKER, Memphis, Tenn. Filed Aug. 9, 1918. Serial No. 249,150. 1 Claim. (Cl. 305—11.)



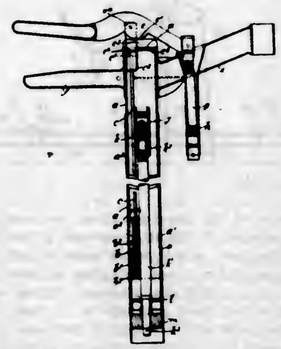
The combination of a tractor wheel having a toothed periphery; of shoes arranged in oppositely disposed co-acting pairs on the wheel, said shoes having their inner faces channeled and the inner walls of the channels notched to receive the teeth of the wheel, links arranged in pairs pivotally connected to the respective shoes, an angle plate pivoted to the links, a strap having its ends connected by the last mentioned pivots of the links and angle plates of each shoe, a central pivot member on each strap which movably engages with the wheel, an evener bar having offset ends which are pivotally secured to the diagonally opposed links of the respective co-acting shoes and springs connected with the hub of the wheel and with the center of each of the angle plates, all as and for the purpose set forth.

1,348,071. MAIL-BAG CATCHER. JOHN M. WILLIAMS and VERNON E. SMITH, Harlem, Mont. Filed Aug. 22, 1919. Serial No. 319,178. 5 Claims. (Cl. 258—20.)



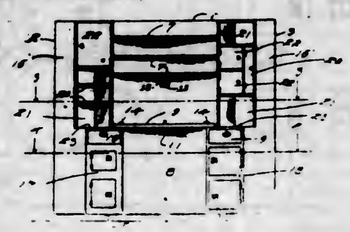
1. A mail bag catcher comprising a bearing member secured at the upper portion of a car upon the interior thereof, a second bearing member disposed at the lower portion of the car vertically beneath said first named bearing member and including an upstanding tubular portion provided with a cut out portion, a basket structure, a shaft carrying said basket structure and disposable within said bearing members and adapted for rotation whereby to dispose said basket interiorly or exteriorly of the car, and a sleeve journaled upon said tubular portion and provided with a slot adapted to register with the cut away portion in said tubular portion whereby to permit insertion or removal of the lower end of said shaft.

1,348,072. GUN-MOUNTING FOR USE ON AIRCRAFT. ROBERT ALLEN, Caversham, England. Filed June 12, 1917. Serial No. 174,390. 11 Claims. (Cl. 89—40.)



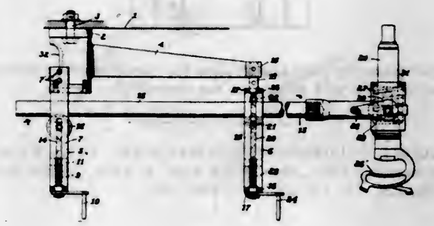
1. In a gun mounting, a main post, an adjustable gun supporting means carried by said post, means coöperating with the post including a hand grip capable of either quickly releasing or fixing the relatively adjustable parts, and resilient counter balancing means for the gun and its equipment.

1,348,073. PORTABLE SCREEN. MARIE P. ALMY, Brooklyn, N. Y. Filed Dec. 17, 1919. Serial No. 345,608. 2 Claims. (Cl. 45—106.)



2. The combination of a main central panel having beveled end walls, foldable, hinged side panels having complimentarily beveled walls adjoining the said central panel walls in the operative position and having lower projecting portions whose upper inner ends extend partially across the central panel, and a drop shelf hinged to the main panel and adapted to rest in operative position on the said upper inner ends of said projecting portions.

1,348,074. HOLDER FOR DRILLING AND RIVETING TOOLS. ERNEST SHERWOOD ASTIN, Baltimore, Md., assignor to The Liberty Tool Company, Baltimore, Md., a Corporation of Maryland. Filed Aug. 14, 1919. Serial No. 317,593. 5 Claims. (Cl. 78—50.)



5. In combination, a main supporting member, an arm turnable about said member, hangers extending down from the arm, one hanger being at the outer end of said arm and the other adjacent the supported end of said arm, a vertically movable slide in each hanger and guided thereby a rod supported by the slides, means at the end of the rod for holding a tool, screw shafts mounted in the hangers and engaging the slides, said screw shafts being vertically disposed and adapted to move the slides vertically, and means for turning the screw shafts, substantially as described.

1,348,075. RAIL-JOINT. LAYMAN W. BAILEY, Princeton, W. Va. Filed Nov. 17, 1919. Serial No. 338,426. 3 Claims. (Cl. 238—193.)

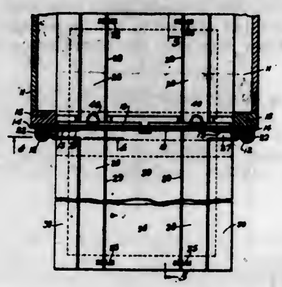


2. A combined rail joint and chair comprising two oppositely disposed rail engaging members having base portions, one of said base portions comprising longitudinally spaced plates with their inner ends diverging toward their free side edges and beveled downwardly and outwardly, the other base portion being in the form of a plate shaped to fit between the plates of the first mentioned base portion the ends of said plate converging toward its free side edge and beveled downwardly and inwardly.

1,348,076. DOOR-OPERATING MECHANISM. JOHN BALOG, Hazleton, Pa. Filed June 5, 1919. Serial No. 301,901. 3 Claims. (Cl. 268—9.)

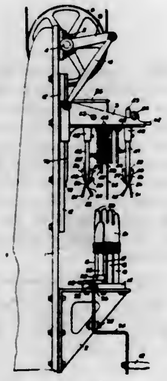
1. In a door operating mechanism, runways hinged at their longitudinal edges to swing up and down, said runways being of a length to extend across and on each side of the doorway, springs supporting the runways normally in uppermost position, pinties mounted to turn, a

door secured to each pintle, and connections between the free edges of the runways and pintles for operating the



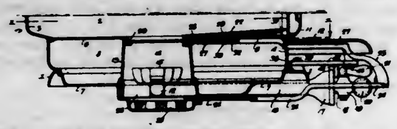
latter from the runways to open the doors in either direction of travel of a vehicle on the runways.

1,348,077. GLOVE-TURNING MACHINE. DAVID BAUM, Livermore Falls, Me. Filed Sept. 6, 1919. Serial No. 322,127. 17 Claims. (Cl. 223—20.)



1. A machine of the character stated, comprising a glove support, a movable member, plungers on the movable member adapted to engage the fingers of the glove and force them into the glove support, means for holding the inwardly turned fingers in the glove support, and gripping means on said movable member adapted to grip the wrist portion of the glove and move the same vertically while the finger portions of the glove are thus held.

1,348,078. COMBINED COAL AND GAS RANGE. GEORGE F. BIBB, Troy, N. Y. Filed Mar. 13, 1920. Serial No. 365,567. 7 Claims. (Cl. 126—36.)



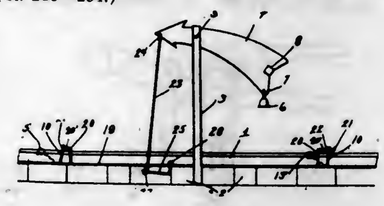
1. The combination in a combined coal and gas range, of an oven having a bottom plate therefor, the bottom plate of the range being spaced from the oven bottom plate so as to form a lower flue; a casing located between the two plates and forming the burner chamber; openings in the two plates connecting with the burner chamber; a burner in the chamber; two sliding plates, one adapted to close the opening in the bottom plate of the oven and the other arranged to close the opening below the burner; and means for connecting the two plates so that they will be moved in unison.

1,348,079. TOOL FOR APPLYING METAL RIBBON-LEAF. HERMAN M. BIR, Huntington, Ind. Filed Mar. 2, 1920. Serial No. 362,665. 2 Claims. (Cl. 41—7.)



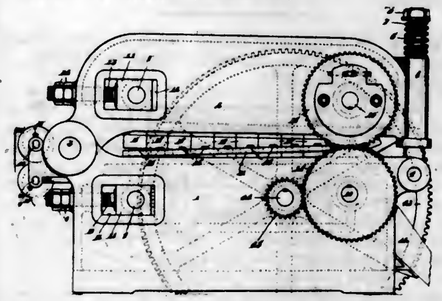
1. A tool of the character specified comprising a frame embodying laterally extending spindles, plates mounted upon the spindles and adapted to receive between them a guide roller, and a roll of ribbon leaf, and means for retaining the parts on the spindle in the required adjusted position.

1,348,080. RAILWAY-SIGNAL. NUMA J. BOURGE, Erath, La. Filed Nov. 27, 1916. Serial No. 133,724. 5 Claims. (Cl. 246—294.)



4. In a device of the class described the combination of a supporting member, a signaling element pivotally mounted upon said member, a bell crank lever, a rod connected to said bell crank lever, a rod signaling element, a second rod connected to said bell crank lever, said last mentioned rod having upwardly bent portions at its ends, said ends terminating in horizontally extended portions and means connected to said horizontally extended portions shifting said last mentioned rod.

1,348,081. CONFECTIONERY-MACHINE. EMIL J. BRACH, Chicago, Ill. Filed Feb. 2, 1917. Serial No. 146,257. 2 Claims. (Cl. 107—8.)



1. The combination with a machine of the class described, of adjustable means for controlling the thickness of a strip of material fed into said machine, said means comprising two coöperating rotatably adjustable wheels having eccentrically formed channels in the peripheries thereof; means for holding said wheels against rotation in the operation of the machine; and means for drawing the material between said wheels, substantially as described.

1,348,082. BUILDING MATERIAL. HERMAN A. BROCKHAUS, Woodward, Okla. Filed Dec. 15, 1919. Serial No. 344,838. 1 Claim. (Cl. 154—45.9.)



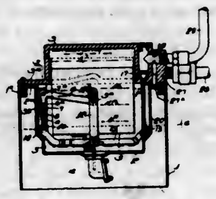
As an article of manufacture, a wall board including a metallic sheet, a layer of cement applied to one side of the sheet, and having asbestos fiber embedded therein, and a sheet of fabric secured to the other side of the layer of cement for securing the cement and the asbestos fiber embedded therein to the metallic sheet.

1,348,083. SCARFPIN. GEORGE W. BUGGELN, East Orange, N. J. Filed Apr. 23, 1920. Serial No. 376,125. 3 Claims. (Cl. 24—85.)



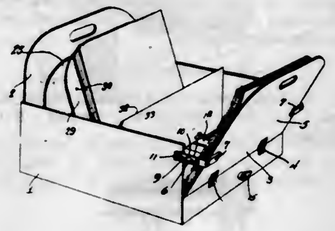
1. An article of the type set forth comprising a split ring-like band adapted to surround a necktie, and a scarf pin carried by the band, said pin being secured to the band intermediate the ends of the latter and including an inwardly extending portion which extends into the band and a portion which is directed downwardly and at right angles to said inwardly extending portion.

1,348,084. VACUUM FUEL-FEED DEVICE. CHARLES S. BURTON, Oak Park, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Aug. 16, 1918. Serial No. 250,115. 8 Claims. (Cl. 158—36.)



1. In a vacuum fuel feed device comprising a vacuum chamber and a reserve chamber, the vacuum chamber having the following fluid connections, viz: (1) a fuel supply inlet, (2) a fuel supply outlet to the reserve chamber, (3) a suction outlet, and (4) an atmosphere inlet; means in the vacuum chamber for alternating the dominance of suction and pressure comprising a buoy mounted for movement by change of liquid level in said vacuum chamber; a valve device controlling certain of said fluid connections, and operating connections to the valve device from the buoy comprising a snap-action spring, the buoy being positively connected operatively with the valve device independently of the snap-action spring; said operating connections containing a lost motion joint; the snap-action spring being connected for its tensioning by the movement of the buoy through the range of said lost motion.

1,348,085. POSTING-TRAY FOR MACHINE-BOOK-KEEPING. EZRA LYMAN CATHCART, St. Paul, Minn. Filed July 17, 1919. Serial No. 311,474. 6 Claims. (Cl. 129—16.)



1. A posting tray comprising a casing having a hingedly mounted front panel, a follow-block mounted within the casing, and adapted to be moved toward and away from the ends thereof, and a freely movable angularly disposed integral upset member mounted within the casing.

5. A posting tray comprising a casing having an elevated bottom wall to provide a lower space, longitudinally movable members disposed above the bottom wall, the said bottom wall having slots formed therein, rails adapted to be raised and lowered to project above and below the bottom wall through the said slot, and means to raise and lower the said rails.

1,348,086. TOY FORT. HARRY EDWARD COATES, Sacramento, Calif. Filed Nov. 20, 1919. Serial No. 339,409. 6 Claims. (Cl. 46—59.)

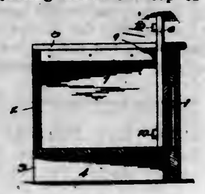


1. A toy fort including a structure, a gun mounted thereon, a figure movably mounted to be given a position below the top of the fort to be concealed or to emerge therefrom to simulate a gunner manning the gun, means to move said figure to the emerged position, means to cause the discharge of the gun with the emergence of the figure, and means to restrain or release the figure.

1,348,087. STORE-COUNTER. FRED HAMDEN COLE, Yuma, Colo. Filed Oct. 6, 1919. Serial No. 328,776. 1 Claim. (Cl. 211—11.)

A store counter comprising a casing divided by transverse vertical partitions into a plurality of similar compartments, cleats secured in each compartment at the opposite sides thereof, near the top, and forming guides, a rigid cover slidable on the cleats in each compartment and provided with a handle, the cleats being cut away at one side of the casing and rounded to permit the cover to tilt

downwardly into the compartments and to assume an upright position, the rounded ends of the cleats serving to retain the cover in vertical position, with the handled end thereof projecting above the top of the casing, and



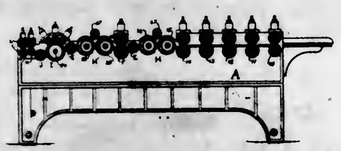
cleats secured upon the under side of each cover and engaging against the inner surface of the casing when the cover is in closed position, whereby to prevent the cover from being slid off the casing.

1,348,088. VALVE. SIMON J. CONNELL, Brooklyn, N. Y. Filed Dec. 20, 1919. Serial No. 346,245. 9 Claims. (Cl. 251—9.)



1. A valve of the character described, comprising two members, one member consisting of a tubular journal having ports therein, a reduced extension on one end of the tubular journal, a key on the extension, the other of said members having rings fitting the journal, webs connecting the rings and comprising valves controlling the ports, and a ring on the last-mentioned member fitting the extension and having a keyway therein movable over said key.

1,348,089. FLAX-MACHINE. CLAYTON G. COOKE, New Haven, Conn., assignor to American Linen Fibre Company, Wilmington, Del., a Corporation of Delaware. Filed June 21, 1912. Serial No. 705,071. 40 Claims. (Cl. 13—21.)

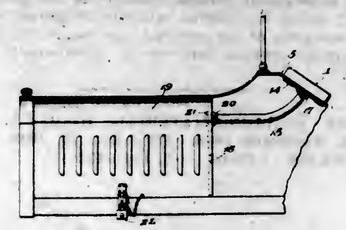


8. The combination of breaking means, a group of heckling devices to heckle the straw emerging from said breaking means, a second group of heckling devices, located in advance of the first group, and a pair of spirally fluted rolls interposed between said groups and driven at such a speed as to pull the straw through one or more heckling devices of the first group, and to hold the straw while it is heckled by one or more devices of the second group; substantially as described.

40. The method of decorticating flax and other fibrous stock, which comprises breaking the straw along transverse lines, then heckling it, then twisting the individual lengths of heckled straw to remove some of the adhering portions of the shive, and then re-heckling the stock while the twist remains therein; substantially as described.

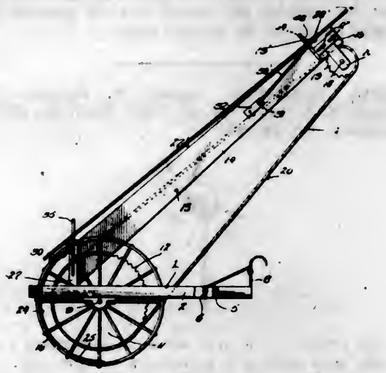
1,348,090. MEANS FOR LOCKING ELECTRIC SWITCHES ON AUTOMOBILES. EDWARD COOPER, Cheyenne, Wyo. Filed Feb. 6, 1920. Serial No. 356,600. 4 Claims. (Cl. 180—82.)

1. The combination of a back wall of an engine hood, a dash, a switch mounted upon the dash, a conductor leading from the switch into the engine hood, a housing mounted upon the dash and inclosing the switch and pro-



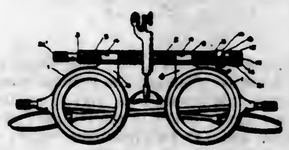
vided with a door having a lock, and a pipe or conduit receiving the conductor and connected at opposite ends to the dash and the back wall of the engine hood.

1,348,091. HAY-LOADER. RUSSELL A. CRANDALL, Buttonwillow, Calif. Filed Nov. 18, 1918. Serial No. 262,324. 2 Claims. (Cl. 56—360.)



1. In a machine of the class described, a main frame, supporting wheels therefor, a drum mounted for rotation with said wheels in said frame, an inclined conveyer frame, an endless conveyer engaging said drum, rake teeth arranged in rear of the drum, a fender arranged above the conveyer and for vertical movement toward and from the conveyer to accommodate itself to the quantity of material thereon, said rake teeth having a head provided with guides for said fender, standards in which said head is vertically adjustable, means adjustably fixing the head to the standards, and means adjustably fixing the standards to the main frame, whereby the rake teeth may be positioned relatively to the periphery of the drum.

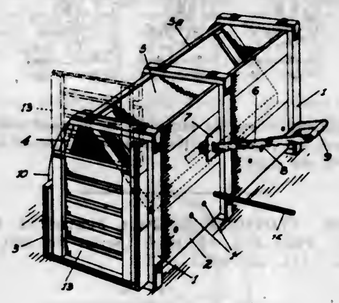
1,348,092. EYE-TESTING INSTRUMENT. GEORGE H. DAY, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 26, 1917. Serial No. 208,938. 6 Claims. (Cl. 88—20.)



1. A trial frame including a longitudinal bar, adjustable rods carried by the bar, lens frames suspended from

the rods, clutch faces formed on the inner ends of said rods and means whereby to engage and disengage the clutch faces to rotate said rods separately or simultaneously.

1,348,093. HOG-BOX. WILLIAM A. D'EGILBERT and BEN GARLAND, Willows, Calif. Filed Sept. 3, 1919. Serial No. 321,393. 3 Claims. (Cl. 119—98.)



1. A hog box comprising side walls, slidable end gates, doors between the walls at one edge thereof, and a clamping board inside the box hinged to one of the walls on the opposite edge thereof from the doors, and extending lengthwise of the walls, and adapted to squeeze and clamp the body of a hog between the same and the wall to which it is hinged.

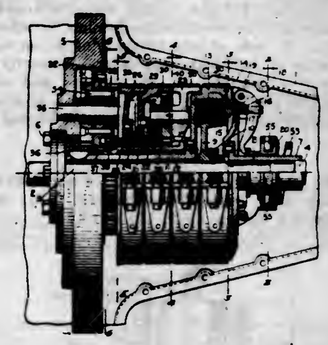
1,348,094. LIFE-PRESERVER HELMET. DOMENICO DEL RE, Iron River, Mich. Original application filed July 13, 1918, Serial No. 244,781. Divided and this application filed Dec. 21, 1918. Serial No. 267,827. 5 Claims. (Cl. 128—141.)



1. A life preserver helmet structure comprising a body member of a size to inclose the head, said helmet structure having a contractible neck receiving portion, and a snout projecting from the front of the helmet and terminating in a short pipe extension of relatively small cross sectional area having a downward curvature toward the wearer, the snout containing a body of pervious absorbent material.

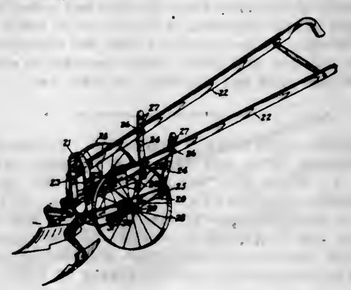
1,348,095. PLANETARY GEARING. SMITH V. DICKMAN, Shavertown, N. Y. Filed Aug. 25, 1919. Serial No. 319,539. 4 Claims. (Cl. 74—34.)

1. The combination with a drive shaft and a driven shaft, of a sleeve on the drive shaft, a drum on the sleeve, a ring secured to the drum, a disk secured to the drive shaft, friction disks between the disk and drum, plungers carried by the ring, pivotally supported arms engaging the plungers to force the friction disks together, a sliding collar for operating said arms, a sleeve on the driven shaft secured to the ring whereby motion may be transmitted from either the disk or the drum to the driven shaft, three nested sleeves on the first-mentioned sleeve, drums on all of said sleeves, pinions carried by the flywheel, pinions on two of said last-mentioned sleeves and on said first-mentioned sleeve meshing with said pinions, a second pinion on the opposite end of one of said sleeves,



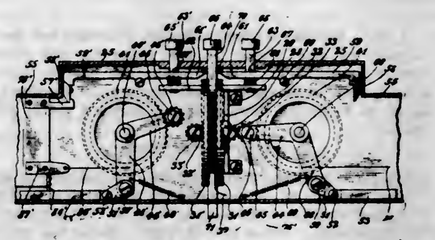
pinions carried by one of said drums and meshing with internal gear of drum and gear on sleeve, and means for holding any of said drums against movement.

1,348,096. GARDEN-TOOL. JAMES ELLIS DODD, Peoria, Ill. Filed Feb. 18, 1920. Serial No. 359,485. 3 Claims. (Cl. 97—42.)



1. In a garden tool comprising a wheeled frame having guiding handles and ground working members, of a support for said members consisting of a slotted horizontal arm projecting obliquely to the frame on the outside thereof in advance of the wheel, said arm having an offset upstanding lug with a face oblique to the arm bearing against said wheeled frame and secured thereto to hold the arm immovable.

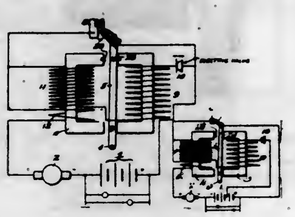
1,348,097. AUTOMOBILE-SIGNAL. FRANK J. DORAN and OTTO H. KIRCHNER, Hoboken, N. J. Filed Oct. 8, 1919. Serial No. 329,404. 2 Claims. (Cl. 116—50.)



1. A direction indicator comprising a casing, guide arms extending oppositely therefrom, slides movable in said

arms, springs actuated means for extending said slides, detents engageable with said slides when retracted, manually operable means for releasing said detents, geared drums rotatable in said casing, cords attached to said slides adapted to be wound on said drums, bell-crank levers pivoted on the axis of said drums, pinions carried by one of the arms of said bell-crank levers, manually operable gear trains engageable by said pinions, and means for shifting said pinions into mesh therewith said means becoming operative upon the full extension of said slides.

1,348,098. AUTOMATIC SWITCH. CARL W. EISENMANN, Nebraska City, Nebr. Filed June 16, 1916. Serial No. 103,996. 4 Claims. (Cl. 171—314.)

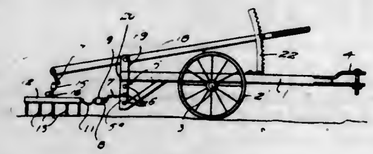


2. The combination of a storage battery; a generator for charging the same; a switch for controlling the connection of the generator and battery; and operating means for said switch consisting of three coils in series between one terminal of the generator and the battery terminal of like polarity, said switch being connected in series with one of said coils and shunting the other two.

1,348,099. CONCRETE-HARDENING. CARLETON ELLIS, Montclair, N. J., and HERMAN S. RIEDERER, New York, N. Y. Filed Mar. 23, 1915. Serial No. 16,428. 3 Claims. (Cl. 106—24.)

1. A structural mass of concrete formed with Portland cement and containing a superficial layer carrying distributed therethrough copperized granules of iron of a fineness approximately between 15 and 25 mesh.

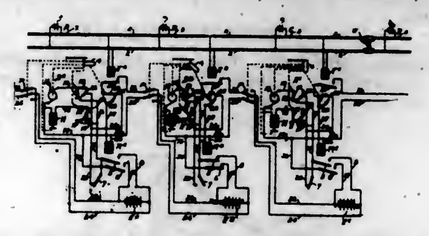
1,348,100. HARROW. MANUEL BRAGA FERNANDES, Jr., Lihue, Hawaii, assignor of one-fourth to Manuel B. Fernandes, Sr., Lihue, Hawaii. Filed May 23, 1919. Serial No. 299,098. 3 Claims. (Cl. 55—88.)



1. In a harrow, a portable frame, a pulling bar flexibly secured to said frame at the rearward end thereof, and a plurality of flexibly connected harrow sections flexibly secured at their forward ends to said pulling bar so as to be drawn thereby during forward travel of the frame.

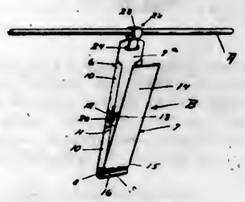
1,348,101. RAILWAY SIGNALING. FREDERICK T. FEREDAY, Albany, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Dec. 2, 1918. Serial No. 264,910. 5 Claims. (Cl. 246—53.)

2. Apparatus of the type comprising a signal, a signal relay for controlling said signal, and a circuit for said relay including a source of current, characterized by the combination therewith of means controlled by said signal



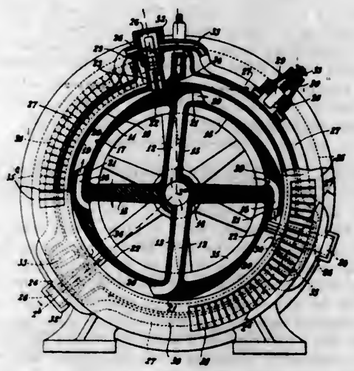
and operating when the signal is in proceed position to disconnect the relay from its circuit and connect said circuit with the signal.

1,348,102. CLOTHESPIN. PAUL FREYHOLTZ, Fairfax, Minn. Filed Aug. 16, 1918. Serial No. 250,184. 1 Claim. (Cl. 24—137.)



A clothes pin comprising a pair of members each formed as a plate terminating at one end in a rolled edge, ears on the side edges of the said plates intermediate the ends thereof and pivotally connected, a spring disposed between and engaging said plates for urging said rolled edges into clamping engagement, and a reduced extension formed on the other end of one of said plates and reflexly bent to provide an attaching loop whereby to provide suspension means for supporting the device from a clothes line, the axis of said loop being parallel with said rolled edges.

1,348,103. ROTARY INTERNAL-COMBUSTION ENGINE. JOHN WILLIAM GEORGE, Stroud Green, England. Filed Oct. 16, 1918. Serial No. 258,411. 4 Claims. (Cl. 60—41.)



1. A rotary internal combustion engine comprising, an outer casing provided with transverse combustion chambers, said casing having substantially radial openings extending inwardly through its periphery and ports disposed near and forwardly of said openings and leading into the combustion chambers, substantially radial vanes mounted to reciprocate in said openings and projecting into the interior of the casing, and a rotor mounted within the casing and having a plurality of abutments to co-act with the vanes for forming compression chambers within the casing, said compression chambers having communication with the combustion chambers through the medium of the said ports, alternate abutments having gas supply openings extending through the rear ends thereof and alternate abutments having air supply openings extending through the rear ends thereof.

1,348,104. ELECTRIC SIDE LIGHT. RICHARD S. GIESE, Pittsburgh, Pa. Filed Feb. 26, 1919. Serial No. 279,370. 6 Claims. (Cl. 240—73.)



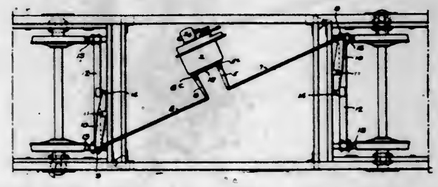
1. An electric side light fixture, comprising a one-piece glass shade of substantially semi-ellipsoid form having the rear face open and the rear edge in one plane and adapted to lie flat against a wall, said shade being of a length, width and depth to snugly inclose an incandescent electric lamp-bulb, and said shade having a passage therethrough near one end thereof, supporting means for the electric lamp bulb within the shade, and means for carrying both the supporting means for the lamp bulb and the shade, said means traversing the passage through the shade to carry the fixture pendently.

1,348,105. CUSHION-TIRE. GEORGE MADISON GOUDY, Goshen, Ind. Filed Feb. 13, 1920. Serial No. 358,468. 4 Claims. (Cl. 152—8.)



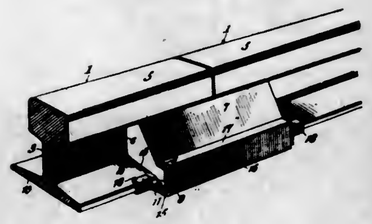
1. In combination with a wheel rim having openings formed therein, a cushion tire including a casing, a plurality of independent sections positioned within the casing, each of said sections including a relatively wide metallic spring member, a supporting block having connection with the metallic spring member, a yoke positioned over the supporting block, said yoke having arms contacting with the rim, means extending through the rim and supporting block and contacting with the yoke for forcing the block away from the rim.

1,348,106. BRAKE. JAMES T. HALSEY, Philadelphia, Pa.; Sue Mason Maury Halsey, Philadelphia, Pa., administratrix of said James T. Halsey, deceased. Filed Aug. 15, 1913, Serial No. 784,975. Renewed Nov. 28, 1917. Serial No. 204,476. 8 Claims. (Cl. 188—171.)



1. The combination of brake shoes for effecting stoppage of a movable member, means for supporting the same in active position, a spring for holding said shoes in braking engagement, a second spring arranged to react upon the first-named spring to render inactive the force of said spring to effect release of the braking engagement of said shoes, means including a train of gearing to effect the action of said second spring, and a motor for operating said gearing.

1,348,107. RAIL-JOINT. SAMUEL A. HAMMONS, Leesville, La. Filed Jan. 28, 1920. Serial No. 354,717. 3 Claims. (Cl. 283—188.)

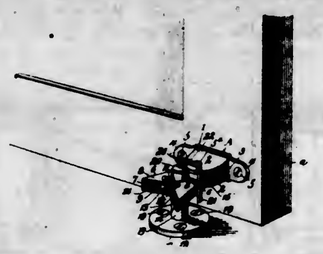


1. A boltless rail joint comprising a pair of identical wedging blocks or side members adapted to lie at opposite sides of the webs abutting rail ends and beneath the head of the rail, each block having a longitudinal cavity extending throughout its length for receiving the adjacent base flange of the rail, the upper walls of said cavities being spaced from the upper faces of the said flanges, the lower portions of the blocks below the cavities comprising tapered tongues extending toward but spaced from each other below the rail flanges, and means passing beneath the rail and embracing the blocks at the base and connecting the same together, the said blocks being adapted to have a rocking movement, when under a load, to clamp the rails and hold the same in position.

1,348,108. COMBINED DOOR HOLDER AND STOP. HARRY HARDEN, London, Ohio. Filed Oct. 6, 1919. Serial No. 328,703. 6 Claims. (Cl. 292—18.)

1. In a holding device, the combination with a jaw carrying member having spaced ears and a pivot pin connecting said ears, of a pair of jaws mounted near their inner ends between said ears on said pin, said jaws extending outwardly from said ears, with their outer ends flared outwardly, a pair of rollers mounted in said jaws at the inner end of the flared portion and normally in engagement with each other, a pair of seats formed in each

of said jaws in rear of said rollers, a spring housed within the jaws and ears in rear of said seats and serving



to force the rollers together, and a keeper adapted to be engaged with the seats of said jaws.

1,348,109. VEHICLE-SHAFT SUPPORT. HARRY HARDEN, London, Ohio. Filed Oct. 6, 1919. Serial No. 328,704. 5 Claims. (Cl. 21—108.)



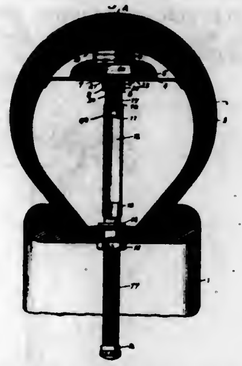
1. In combination with the dashboard of a vehicle, a vertically disposed supporting bar extending along one face of the dashboard, means for securing the bar to the dashboard, means for supporting the shafts of the vehicle, said means consisting of one part secured rigidly to the said bar and a coöperating part connected to the shafts of the vehicle, and means locking the two parts of the supporting means together.

1,348,110. STILT. WILLIAM S. HASSKARL, Philadelphia, Pa. Filed Aug. 25, 1919. Serial No. 319,541. 1 Claim. (Cl. 135—53.2.)



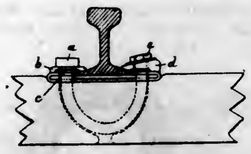
An adjustable foot rest for a stilt compriaing a collar mounted to slide on the stilt, a foot piece extending from the collar, a clamping member disposed between one side of the collar and the adjacent side of the stilt, spaced vertically disposed ribs formed on the opposed side of the collar to engage the adjacent face of the stilt, transversely disposed ribs carried by the clamping member to engage the adjacent face of the stilt above and below the terminals of the vertical ribs, a screw on the collar and adapted to engage the clamping member for moving the latter into engagement with the face of the stilt, and simultaneously adjusting the collar to hold the latter in fixed relation upon the stilt.

1,348,111. PNEUMATIC-TIRE INFLATER. EUGENE S. HAYFORD, New Orleans, La. Filed Oct. 9, 1919. Serial No. 329,461. 1 Claim. (Cl. 152—11.)



The combination of a casing, an inner tube arranged in said casing and means communicating with the inner tube for inflating the same, said means comprising a cup-shaped member, a flexible portion to which the member is secured, a chamber formed in the member, a cylinder that is movable longitudinally in the chamber, and an air inlet and outlet orifice communicating with the chamber whereby on inward movement of the cylinder, air will be forced from the chamber into the inner tube, and on outward movement of the cylinder, air will be drawn into the chamber, and means communicating with one end of the chamber for closing the inlet orifice thereof.

1,348,112. RAIL-FASTENING. CHARLES ALBERT HENRY, Paris, France. Filed Apr. 28, 1920. Serial No. 377,268. 5 Claims. (Cl. 238—265.)

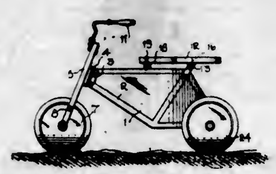


1. A fastening device for fixing metallic members on to reinforced concrete, comprising: a bolt with a curved stem approximately semi-circular in shape, a part of reinforced concrete, a semi-circular tubular channel providing in the concrete during molding, two clamps adapted to grip the metallic member, each clamp having a perforation for the stem of said bolt, and means for tightening said member on to said concrete.

1,348,113. CHILD'S VELOCIPEDE. HARRY H. HISTAND, Doylestown, Pa. Filed Dec. 14, 1918. Serial No. 266,762. 4 Claims. (Cl. 208—165.)

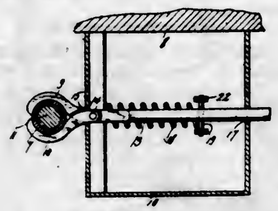
1. A child's velocipede comprising an upright body, a ground wheel supporting the forward end of the body, a

ground wheel supporting the rear end of the body, a pillow block straddling the upper edge of the body and secured to the said body, a seat disposed at its rear portion upon the upper edge of the pillow block and secured



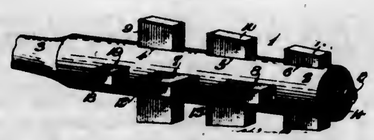
thereto, a post disposed between the under side of the seat at the forward portion thereof and the upper edge of the said body, and a fastening means secured through the seat and post and into the body.

1,348,114. AUTOMATIC VESTIBULE-CURTAIN HOLDER. CHARLES M. HOFFMAN and JOSEPH THOMISSER, Chicago, Ill. Filed Sept. 28, 1918. Serial No. 256,107. 1 Claim. (Cl. 105—25.)



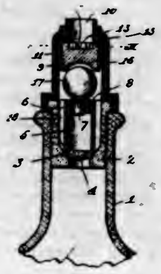
A holding device comprising a support having an opening, a slidable shank carried by the support and seating in the opening, a fixed jaw on the outer end of the shank, a jaw pivoted to the shank and positioned opposite the fixed jaw, the outer side edge of the pivoted jaw engaging the edge of the opening and being non-parallel to the axis of the shank, whereby said jaw is forced by said edge toward the fixed jaw when the shank is slid in one direction, and a hand lever pivoted to the support and connected to the shank for sliding the same in the opposite direction.

1,348,115. REVERSIBLE-TAPER ROUGHING-REAMER. MORTON C. HUTCHINSON, Woodbury, N. J., assignor of one-half to Leon G. Buckwalter, Merchantville, N. J. Filed Aug. 31, 1918. Serial No. 252,136. 6 Claims. (Cl. 77—72.)



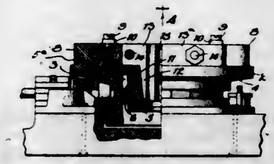
1. A reversible taper reamer, comprising a bar having two sets of slots therein at right angles to each other, detachable cutters located in said slots, and locking means for the inner and outer of said cutters, the edges of said inner and outer and intermediate cutters being interlocked with each other.

1,348,116. BOTTLE-VALVE. GILBERT JACKSON, New York, N. Y. Filed Dec. 6, 1916, Serial No. 135,848. Renewed Feb. 1, 1919. Serial No. 274,566. 6 Claims. (Cl. 215—69.)



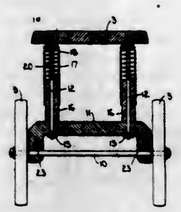
5. The combination with a bottle; of a stopper disposed in the neck thereof and a pneumatically controlled valve in said stopper to prevent unauthorized refilling of the bottle.

1,348,117. ROTARY-DRILL HEAD. HORACE G. JOHNSTON, Corsicana, Tex., assignor to Genevieve Johnston, Corsicana, Tex. Filed Aug. 6, 1919. Serial No. 315,776. 5 Claims. (Cl. 255—23.)



1. In a rotary drill operating mechanism, a turn-table having a central opening, a bushing rotatably mounted concentrically of said table, a clamp engaging means on the turn-table, a divided clamp adapted to be engaged by said clamp engaging means on the table, and means on the bushing for engaging said divided clamp to keep the same from spreading.

1,348,118. CHILD'S CAR. JOHN C. JUTHE, Allston, Mass. Filed July 29, 1919. Serial No. 314,059. 4 Claims. (Cl. 208—165.)



1. A child's car comprising a frame having a seat at the rear and supported by front and rear wheels, a bolster in which the rear wheels are mounted, a vertical guide rod connecting the frame and bolster having a sliding fit to permit the frame and bolster to move toward and from each other, a pair of telescoping members guided by said rod and abutting respectively the frame and said bolster, and an extension spring inclosed by said members.

1,348,119. SCRAPER. JOHN KALIVODA, Cuba, Kans. Filed Sept. 26, 1919. Serial No. 326,423. 4 Claims. (Cl. 37—5.)



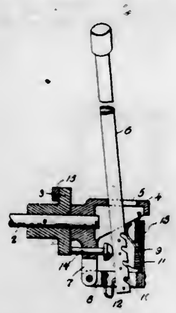
1. A road scraper comprising a platform, elongated bearing members disposed upon the underside thereof at its edges, a laterally inclined blade carried at one end of the platform, bearing blocks slidably adjustable within said bearings, a roller having the ends of its axle engaged within said blocks, and set screws extending into opposite sides of said first named bearing members and engaging said blocks whereby to vary the angular position of the roller.

1,348,120. SCARFPIN-HOLDER. ALPHONSO KESSLER, Dunkirk, N. Y. Filed June 7, 1918. Serial No. 238,716. 1 Claim. (Cl. 24—155.)



A scarf pin holder comprising a flat piece of spring metal, including a body portion arranged parallel to the pin, one end of the body portion being disposed at an inclination to the pin and having an opening for the reception of the latter said opening having its axis obliquely disposed with respect to the pin, the opposite end of the body portion being disposed at a right angle and terminating to provide a duplex hook, the hook portions being arranged opposite the adjacent longitudinal edges of the body portion for the purpose specified.

1,348,121. MOTORCYCLE BACKREST. CHARLES KUDERER, Pittsburgh, Pa. Filed Dec. 9, 1918. Serial No. 265,893. 8 Claims. (Cl. 208—138.)



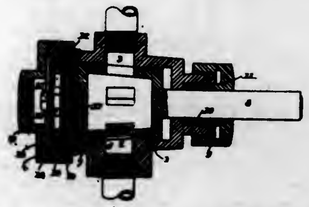
1. In a device of the character described, a fixed member, a bracket movable about the same, a supporting member rockably connected to the bracket, and coöperating means carried by said fixed member and the bracket for moving said supporting member into predetermined position about its axis of rocking movement and holding it in this position when the bracket is turned into a predetermined position about the fixed member.

1,348,122. DEMOUNTABLE RIM. PETER S. LARSON, Beloit, Wis. Filed June 16, 1919. Serial No. 304,610. 1 Claim. (Cl. 301—35.)



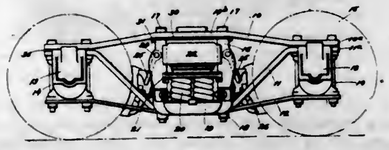
A demountable rim having a bead-engaging flange on one edge and an inwardly extending flange on its other edge, a removable bead-engaging ring contacting with the outer side of said inwardly extending flange, the two having alined openings, threaded shanks passing through said openings and having cylindrical heads on their inner ends axially alined with said shanks and abutting said inwardly extending flange, one side of each head being flattened and contacting non-rotatably with the rim, the opposite side of each head being beveled at its inner end for contact with a felly-band to guide the rim onto a wheel, nuts threaded on the outer ends of said shanks to hold the aforesaid bead-engaging ring in place, and projections on the rim bearing against the inner ends of said heads to prevent accidental removal of the shanks from their receiving openings when said nuts are removed.

1,348,123. AIR-VALVE. GEORGE F. MUTH, Philadelphia, Pa., assignor to Newton Machine Tool Works, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 8, 1919. Serial No. 270,189. 2 Claims. (Cl. 251—98.)



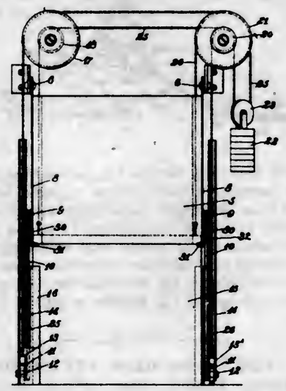
1. The combination in a valve, of a casing having ports and having a tapered valve seat, said valve casing having a stuffing box at one end and an extension at the opposite end; a tapered valve adapted to the tapered seat in the casing and having an operating stem extending through the stuffing box, the extension of the casing having an external and an internal thread; a partition having a thread on its periphery adapted to the internal thread; a set screw extending through the partition and bearing against the valve; a cap having a thread adapted to the external thread of the extension; and a gasket between the cap and the end of the extension.

1,348,124. CAR-TRUCK. EDWARD POSSON, Chicago, Ill. Filed July 6, 1917. Serial No. 178,890. 6 Claims. (Cl. 105—207.)



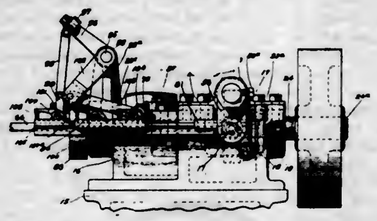
1. In a car truck, a side frame comprising upper and lower arch bars and side columns extending between said arch bars, spacing plates inserted between adjacent ends of said arch bars and between the ends of said side columns and said upper arch bar, means carried by one of said plates to prevent spreading of said side columns, and means for securing said parts together.

1,348,125. COMBINED HINGED AND SLIDING DOOR. ALBERT RUSH, Columbus, Ohio, assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed July 2, 1917. Serial No. 178,302. 2 Claims. (Cl. 20—19.)



1. A door, shutter or the like including, in combination, a hinged upper section, a lower section to slide into connection with the upper section, a pivotal strut hinged at one end to the upper section, a guide in which the other end of the strut travels, flexible means for raising the lower section into coincidence with the upper section and means connected with that end of the strut which travels in the guide for raising the strut and thereby deflecting both sections and counterweighting means supported by said flexible means.

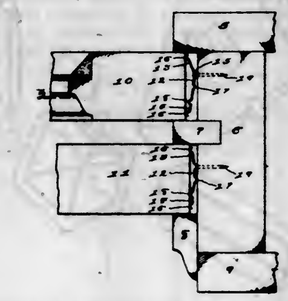
1,348,126. TIE-PLUG MACHINE. LAWRENCE W. WILSON, Burlington, Iowa. Filed Oct. 26, 1916. Serial No. 127,911. 13 Claims. (Cl. 144—196.)



1. In combination, a frame, a ram slidably mounted in a guideway in said frame, a cutting tool carried by said ram, means for operating said ram, a cover plate for maintaining said ram in said guideway, an arm carried by said cover plate and projecting outwardly therefrom above said ram, and a cutting block pivotally mounted on said arm and adapted to normally depend in the path of said cutting tool.

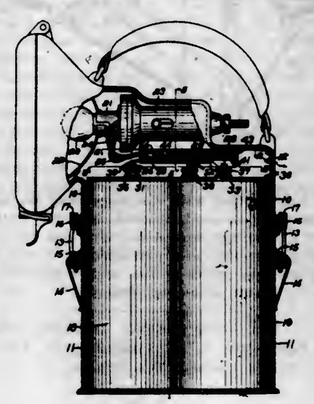
1,348,127. WINDOW. JOSEPH C. DUNHAM, Oklahoma, Okla. Filed Dec. 30, 1919. Serial No. 348,437. 2 Claims. (Cl. 20—69.)

1. A strip of elastic sheet material adapted to be interposed between a sash and jamb, the strip having two longitudinal beads projecting toward the jamb, the strip being so shaped in cross-section that when compressed



into a given space only one of the beads contacts the jamb but when compressed into smaller space the second bead is brought into contact with the jamb.

1,348,128. ELECTRICAL CONNECTION. JOHN H. GEORGE, Bridgeport, Conn., assignor, by mesne assignments, to The Hawthorne Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 17, 1918. Serial No. 240,310. 20 Claims. (Cl. 240—8.5.)

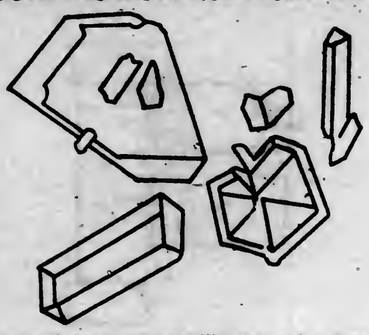


11. In an apparatus of the class described, the combination of a casing comprising two separable parts, a battery carried by one of said casing parts, said battery being provided with terminals, a plate having openings to receive and position said terminals with reference to said casing thereby to present said terminals in substantially predetermined positions, and means carried by the other casing part to establish electrical connection with said terminals by merely uniting said casing parts.

1,348,129. COMPOUND OF TITANIUM AND PROCESS FOR THE MANUFACTURE OF SAME. VICTOR MORITZ GOLDSCHMIDT, Christiania, Norway, assignor, by mesne assignments, to Titan Co. A./S., Christiania, Norway. Filed Oct. 12, 1917. Serial No. 196,327. 27 Claims. (Cl. 134—58.)

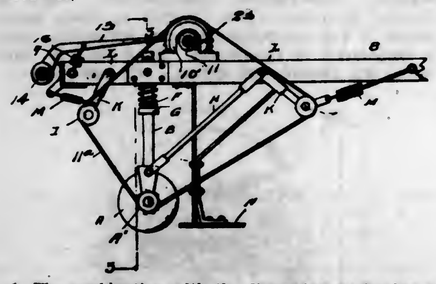
1. The process of effecting crystallization in a titanium compound which consists in heating a compound of titanium until the particles constituting the structure exhibit a crystalline interior structure and a smooth exterior surface.

24. As a new and useful article of manufacture, a complex pigment comprising an oxygen compound of titanium



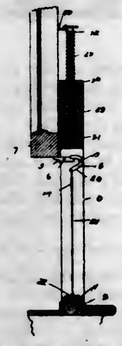
characterized by cryptocrystallization and intermingled therewith a pigment forming compound of another element having a different refractive index therefrom.

1,348,130. CORN-PLANTER. FRANK HEVEL, GROVER C. HARRINGTON, and WILLIAM HEVEL, MCCUNE, Kans. Filed Apr. 1, 1919. Serial No. 286,786. 2 Claims. (Cl. 275—9.)



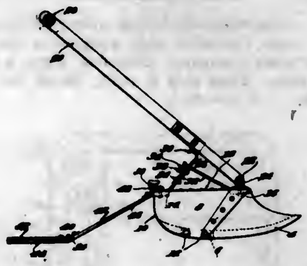
1. The combination with the dispensing mechanism operating shaft of a seed planter, and its slotted draft tongue, of a bearing block swiveled in the slotted tongue and a spring pressed post journaled in the block, and a ground wheel journaled in the post having connections therefrom to the dispensing mechanism.

1,348,131. WINDOW-CLOSING DEVICE. HAROLD I. HUBY, Saylesville, R. I. Filed Feb. 18, 1919. Serial No. 277,747. 5 Claims. (Cl. 268—4.)



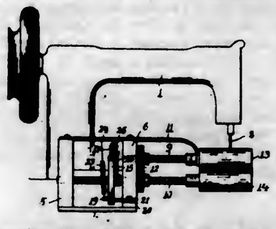
1. A window-closing device comprising a standard adapted to be secured to a window frame, means on said standard for supporting a window in open position, a non-rupturable control member capable of extending its length by hygroscopic action and returning to normal length when dry, and means whereby the elongation of said control member causes said supporting member to release the window to move to closed position.

1,348,132. DEVICE FOR HARVESTING CRANBERRIES. WALDO F. LORING, Duxbury, Mass., assignor of one-half to John B. Hadaway, Swampscott, Mass. Filed Feb. 12, 1919. Serial No. 276,507. 10 Claims. (Cl. 56—330.)



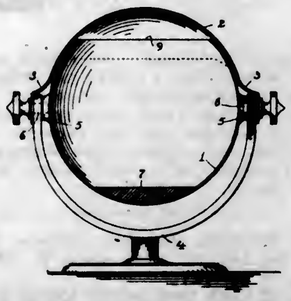
1. A hand operated device for harvesting cranberries or the like having, in combination, a comb for stripping the berries from the vines, means for retaining the berries, a handle extending rearwardly from the device, and connections between the handle and retaining means designed to depress and advance the comb when the handle is pushed forwardly in the direction of its length and to elevate the comb when the handle is pulled in a reverse direction.

1,348,133. SEWING-MACHINE ATTACHMENT. HERBERT THORNE, Boxford, Mass. Filed Dec. 17, 1918. Serial No. 267,122. 3 Claims. (Cl. 112—214.)



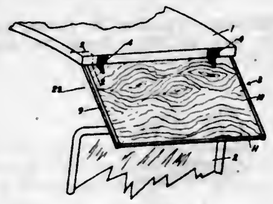
1. The combination with a sewing machine or the like having an intermittent feeding device controlled by a rocker shaft, of a pair of auxiliary feed rolls movable together, a disk rotatable with said rolls, a detent engaging the periphery of said disk, an arm pivoted on the axis of said disk and having its free end controlling said detent, an arm swinging with said rocker shaft, and connection between said swinging arm and detent.

1,348,134. RECEPTACLE. SIDNEY G. BARNSTEAD, Boston, Mass. Filed Aug. 29, 1914, Serial No. 859,208. Renewed April 21, 1920. Serial No. 375,649. 1 Claim. (Cl. 211—6.)



A receptacle comprising the larger part of a hollow sphere rotatively supported concentric with its axis, the remainder of the sphere being absent to form an open mouth, the lower part of the sphere being weighted to gravitationally present the open mouth normally uppermost and with its circle in a horizontal plane, a cover comprising a segment of a hollow sphere whose interior radius is slightly in excess of that of the exterior of the first-named hollow sphere, the edge of the cover being in a horizontal plane and lower than the normal plane of the said mouth and a standard rigidly supporting the cover and serving as the rotative support for the first-named hollow sphere, whereby the edges of the cover coming down and about the edges of the receptacle, serve as a seal to prevent evaporation from the receptacle.

1,348,135. SUN AND RAIN SHIELD FOR AUTOMOBILES. WILLIAM H. DAMON, Los Angeles, Calif. Filed Dec. 20, 1918. Serial No. 267,706. 2 Claims. (Cl. 296—96.)



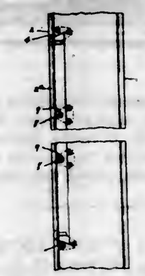
2. An adjustable sun and rain shield for automobiles comprising a suitable board, and adjustable clamping hinges adapted for connecting the board to an automobile top, so that the board may be swung downwardly to bring its rear upper edge into engagement with the lower face of the top and form a close joint, and so that the board may be swung upwardly over the top out of use; said hinges comprising attaching plates adapted to be secured against the front face of an automobile top, bearings extending straight forwardly from the attaching plates in line with the center of the edge of the top and having horizontal screw-threaded bores and corrugated vertical faces around the bores, second attaching plates secured to the board, bearings extending upwardly and backwardly from the second attaching plates and having horisontal openings to match the screw-threaded bores and second corrugated faces to match the first corrugated faces, and the horizontal openings being far enough from the second attaching plates to allow the board to swing downwardly with its rear edge engaging the lower face of the top, and clamping screws inserted loosely through the openings into the screw-threaded bores so that the board will swing downwardly for use and upwardly over the automobile top out of use and may be clamped in an adjusted position.

1,348,136. SHOE. ERNEST W. DUNBAR, Hudson, Mass., assignor to Apsley Rubber Company, Hudson, Mass., a Corporation of Massachusetts. Filed Sept. 25, 1919. Serial No. 326,323. 5 Claims. (Cl. 36—16.)



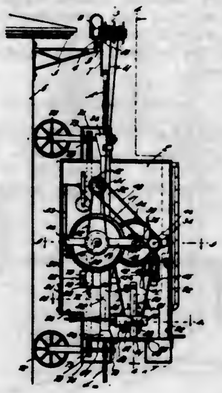
1. A shoe having a canvas upper, an innersole, an outer sole and a welt, the canvas upper having its lower edge portion extended outward over a projecting portion of the inner sole, the welt overlying the lateral extension of the upper, said welt, upper and inner sole being secured together by stitches, and an outer sole secured to the inner sole and projecting laterally beyond the edge of the inner sole, said welt consisting of an inner and outer layer of rubber and an intermediate core of fabric, said core extending to the outer edge of the welt.

1,348,137. VEHICLE-WHEEL RIM. WILLIAM GRIESCHEIT, Detroit, Mich. Filed Sept. 16, 1918. Serial No. 254,196. 3 Claims. (Cl. 152—21.)



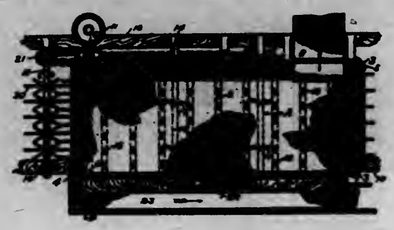
1. The combination with a rim proper, of a member circumferentially extending at one side of the rim proper and forming a detachable portion of the rim, the extremities of said member having a dove-tailed engagement with the rim proper, members carried by the rim proper adjacent the extremities of the detachable member engaging apertures respectively formed in said extremities, and members intermediately carried by the rim proper engaging circumferentially slotted apertures in the detachable member whereby said member is permitted a circumferential play to allow engagement of the end members subsequent to the engagement of the intermediate members.

1,348,138. CLIMBING-ELEVATOR DEVICE. JOHN HUNT, Dumont, Colo. Filed June 12, 1919. Serial No. 303,595. 20 Claims. (Cl. 187—1.)



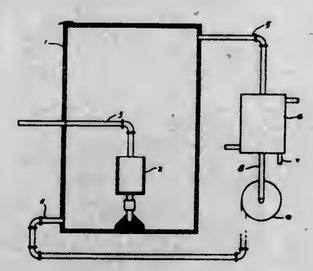
1. In a machine of the class described, an elevated horisontal track and a carriage thereon, a vertical track depending from said carriage, a car movable along said vertical track, means carried by said car for propelling it along said vertical track, and means operable from said car for propelling said carriage along said horizontal track.

1,348,139. STEM-PICKER. EMIL CLEMENS HORST, San Francisco, Calif. Filed Jan. 28, 1920. Serial No. 354,725. 10 Claims. (Cl. 130—30.)



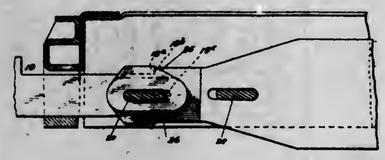
2. A stem picking machine comprising a comparatively long endless draper belt, said belt being laterally inclined with relation to its path of travel, means for delivering the material to be separated to one end of the belt, and means on the belt for obstructing the passage of stems.

1,348,140. REMOVING FUMES FROM MATERIALS. KENNETH B. HOWELL, Millburn, N. J., assignor to the Barrett Company, a Corporation of New Jersey. Filed Dec. 23, 1918. Serial No. 268,095. 14 Claims. (Cl. 83—91.)



1. The herein described process which comprises comminuting hot material and circulating a cooling medium around said material which contains constituents that are volatile at the temperature at which said material is being comminuted.

1,348,141. DRAFT-RIGGING ATTACHMENT. GEORGE C. MURRAY, Chicago, Ill., assignor to Keyoke Railway Equipment Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 3, 1915. Serial No. 64,872. 9 Claims. (Cl. 213—42.)



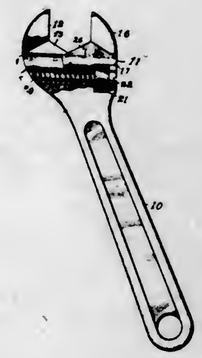
1. In combination, means to transmit stresses to a draft rigging or the like comprising yoke-acting mechanism, an apertured coupler butt, a draft-transmitting key extending therethrough, and means coacting with said coupler butt and key to transfer draft stresses from the former to the latter.

1,348,142. DRAW-BOARD FASTENER. AUGUST JABCHE, Grand Rapids, Mich. Filed Oct. 16, 1919. Serial No. 330,958. 3 Claims. (Cl. 57—18.)



1. A fastener, comprising a relatively wide head, a pair of integral webs on the under face of the head spaced apart and from the forward edge of the head, whereby a projecting lip is provided, and prongs integral with the webs and projecting downwardly from the forward ends of the webs.

1,348,143. WRENCH. CLAYTON M. JONES, Jamestown, N. Y. Filed Mar. 8, 1920. Serial No. 364,166. 2 Claims. (Cl. 81—165.)

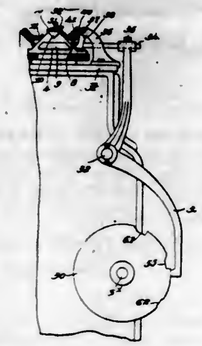


2. In a wrench, a head having a fixed jaw and having a double barreled opening the barrels of which are superposed and connected by a slot, an adjustable jaw having an extension slidable and conformably fitted in the upper of the barrels and in the slot and having rack teeth on its lower edge which extend downwardly into the top of the lower barrel, a screw fitting in the lower barrel so as to be guided thereby and in mesh with the rack teeth, and a nut attached to the screw and received in a transverse slot formed in the head, the nut having a bore of a diameter substantially equal to that of the screw, said lower barrel being formed so that its circular wall engages and guides the screw throughout substantially the length of the latter the screw being of equal diameter throughout and the lower barrel also being of equal diameter throughout.

1,348,144. STARTING SELVAGE AND TUCKING DEVICE FOR KNITTING-MACHINES. ROBERT W. SCOTT, Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated, a Corporation of Massachusetts. Filed July 24, 1914. Serial No. 852,897. 25 Claims. (Cl. 66—21.)

6. In a knitting machine, needles and means for forming a beginning selvage comprising means to lay yarn in the hooks of all the needles, and means for operating said needles in the absence of new yarn selectively to cast off said yarn from recurrent needles only distributed among the remainder, prior to normal knitting at all of said needles.

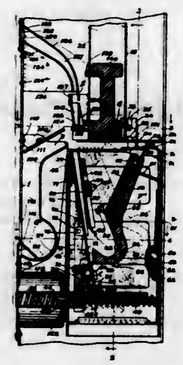
20. In a knitting machine, needles and a needle cam group comprising a stitch cam having an upper advancing surface and a lower retracting surface, beneath which is a normally free groove for needle butts, in combination



with means for moving said cam through the width of said groove at predetermined times, to lower its advancing surface for a special movement of the needles.

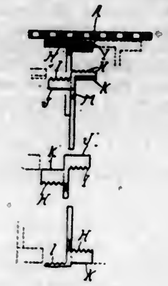
REISSUES.

14,925. VENDING-MACHINE. ALBERT D. GROVER, New York, N. Y., and EARL E. BARBER, Boston, Mass., assignors, by mesne assignments, to Autosales Corporation, a Corporation of New York. Filed Dec. 23, 1919. Serial No. 347,017. Original No. 1,260,372, dated Mar. 26, 1918, Serial No. 711,797, filed July 27, 1912. 43 Claims. (Cl. 194—75.)



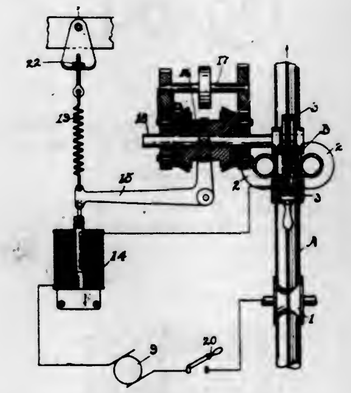
1. In a coin-operated vending machine, the combination with a movable coin carrier having a rigid extension adapted to sustain the coin in operative position on the carrier, of a movable member arranged to be engaged by the sustained coin and actuated thereby when said coin carrier is operated, said coin-carrier and said member being adapted to retain the coin in connecting position during their complete forward movement, and independent means for discharging the coin from said carrier during the return movement thereof.

14,926. ROTARY HAMMER. HAROLD M. PLAISTED, St. Louis, Mo., assignor of forty-nine one-hundredths to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo., a Corporation of Missouri. Filed Dec. 13, 1919. Serial No. 344,710. Original No. 1,301,316, dated Apr. 22, 1919, Serial No. 240,393, filed June 17, 1918. 9 Claims. (Cl. 88—11.)



1. A rotary hammer comprising a flat bar shank having two holes at one end for pivotal mounting, said holes being located on opposite sides of a central longitudinal line, and a T-head on said shank having four operative edges extending transversely in opposite directions from the faces of said shank, each pair of said edges being substantially equidistant from the center of the respective pivot holes, measured diagonally across the central longitudinal line.

14,927. APPARATUS FOR ELECTRIC WELDING. FRANK L. SESSIONS, Lakewood, Ohio, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 5, 1919. Serial No. 295,010. Original No. 1,287,774, dated Dec. 17, 1918, Serial No. 779,674, filed July 18, 1913. Renewed Apr. 26, 1918, Serial No. 231,025. 6 Claims. (Cl. 219—6.)



1. In apparatus for electrically welding tubing, the combination of pressure rolls adapted to maintain the edges of a preliminarily formed tube in substantial contact; means adapted to feed a metallic electrode transversely of such tube toward such edges; means adapted to feed such tube longitudinally so as to move such edges progressively past the end of said electrode; circuit connections for passing a fusing electric current through said

electrode to both such edges; a suitable driver; a clutch for operatively connecting said electrode feeding means with said driver; and electro-magnetic means connected in such circuit and adapted to operate said clutch.

14,928. LOCK-NUT. FREDERICK C. WARNE, Mansfield, Ohio. Filed Mar. 15, 1920. Serial No. 366,070. Original No. 1,272,584, dated July 16, 1918, Serial No. 144,513, filed Jan. 25, 1917. 2 Claims. (Cl. 151—5.)

1. A nut and bolt lock, comprising a bolt having a threaded portion intersected by a longitudinally extending wedge shaped channel, and a nut having an axial cylindrical section having a threaded bore and provided on its margin with a plurality of circularly arranged longitudinally extending spaced fingers surrounding and extending parallel with the threaded portion of said bolt and having



outwardly inclined sides adapted to be driven into said wedge shaped channel to wedge within the latter in preventing relative movement between the bolt and nut.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 27, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 107,478. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE PASCAL PAINT LABORATORIES CO., Cleveland, Ohio. Filed Nov. 19, 1917.

LEFTY PAL

The trade-mark comprising the words "Lefty Pal."

Particular description of goods.—Ready-Mixed Paints, Metal-Primers; Wood-Primers; Rubbing-Fillers; Sanding-Surfacers, Such as are Used for Undercoating Metal Bodies of Automobiles, Railway-Cars, &c.; Rust-Proof Paints; Non-Corrosive Paints, and Air-Drying and Baking Enamels for General Use.

Claims use since Nov. 16, 1917.

Ser. No. 109,377. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE WAGNER MANUFACTURING COMPANY, Sidney, Ohio. Filed Mar. 4, 1918.

KRUSTY KORN KOBS

Particular description of goods.—A Metal Baking-Pan for Corn Bread and the Like.

Claims use since Feb. 15, 1918.

Ser. No. 110,129. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE WILLIAM PETER BREWING CO., Union, N. J. Filed Apr. 11, 1918.

Weneeda

Particular description of goods.—A Non-Intoxicating Beverage Consisting of Malt, Hops, Water, Yeast, and Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume.

Claims use since Dec. 5, 1917.

Ser. No. 110,206. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FLAKETOWN GRAPHITE CO., Mountain Creek, Ala. Filed Apr. 15, 1918.

FLAKETOWN

Particular description of goods.—Graphite.

Claims use since December, 1905.

Ser. No. 111,284. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VICTOR VIVAUDOU, New York, N. Y. Filed May 31, 1918.

Sokool

Particular description of goods.—Talc.

Claims use since May 18, 1918.

Ser. No. 111,730. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED J. KRANK, St. Paul, Minn. Filed June 18, 1918.

KRANK'S LEMON CLEANSING CREAM

No claim being made to the words "Cleaning Cream" apart from the mark as shown.

Particular description of goods.—A Skin-Cleansing Tonic and Massage-Cream.

Claims use since Jan. 18, 1918.

Ser. No. 113,129. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) MOUNT VERNON COMPANY SILVERSMITHS INCORPORATED, Mount Vernon, N. Y. Filed Sept. 11, 1918.



Particular description of goods.—Surgical Instruments—Namely, Retractors, Cannulas, Bone-Plates, Catheters, Tubes, Needles, Urethral Applicators, Nozzles, Proctoscopes, Probes, Saw-Handles, and Spatulas.
Claims use since Aug. 31, 1918.

Ser. No. 113,943. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GORTON CHOCOLATE CO., INC., Corning, N. Y. Filed Oct. 30, 1918.



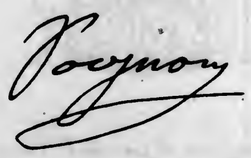
Particular description of goods.—Candy.
Claims use since June, 1914.

Ser. No. 114,829. (CLASS 15. OILS AND GREASES.) OZMO OIL REFINING CO., San Francisco, Calif. Filed Dec. 26, 1918.

DIABLO

Particular description of goods.—Petroleum Products—Namely, Gasolene, Benzin, Distillate, Kerosene, Lubricating-Oils, Lubricating-Greases, Metal-Cutting Compounds, Launching Compounds, and Mineral Waxes.
Claims use since Oct. 16, 1918.

Ser. No. 115,329. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SOCIETE H. TRENTELIVRES & CIE., Paris, France. Filed Jan. 20, 1919.



Particular description of goods.—Spark-Plugs.
Claims use since Nov. 6, 1918.

Ser. No. 115,803. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DIMOULIS AND SPILIOTAKARAS, Aberdeen, S. D. Filed Feb. 12, 1919.



No claim being made to the use of the words "D & S, Manufacturers, Aberdeen, S. Dak." and "Trade Mark" apart from the trade-mark as shown in said drawing.
Particular description of goods.—A Medicine for the Treatment of Rheumatism.
Claims use since Jan. 1, 1919.

Ser. No. 115,848. (CLASS 39. CLOTHING.) WALTER K. MONTAGUE, San Francisco, Calif. Filed Feb. 13, 1919.

PLASUTE

Particular description of goods.—Children's Overalls.
Claims use since Jan. 16, 1919.

Ser. No. 116,917. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CALIFORNIA SOAP COMPANY, INC., Los Angeles, Calif. Filed Mar. 26, 1919.



Consisting of diamond-shaped black ground with the arbitrary words "Wash-E-Z-Y" thereon in large letters.
Particular description of goods.—Soaps.
Claims use since Jan. 1, 1912.

Ser. No. 117,476. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BENJ. H. CHANDLER, Cleveland, Ohio. Filed Apr. 15, 1919.

CLAR-ITE

Particular description of goods.—A Compound for Cleaning the Following Surfaces—Namely, Floors, Woodwork, Furniture, Painted Walls, Marble, Tiling, Rubber, Metals, and Kindred Materials.
Claims use since September, 1918.

Ser. No. 118,014. (CLASS 39. CLOTHING.) JOHANSEN BROTHERS SHOE COMPANY, St. Louis, Mo. Filed Apr. 30, 1919.



The circle being red and the triangle gilt, no claim being here made for the word "Shoes" nor for "For Women Since 1876" apart from the mark as shown in the drawing.
Particular description of goods.—Women's and Children's Shoes of Leather and Cloth and Leather.
Claims use since Oct. 1, 1917.

Ser. No. 118,059. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE NATIONAL SUPPLY COMPANY, Toledo, Ohio. Filed May 1, 1919.



Particular description of goods.—Metal Balls for Plugging Dry Wells, Babbitt-Metal Solder, Pig-Lead, Sheet-Lead, Tool-Steel, Wire Made from Steel, Iron, Brass, and Copper; Steel and Iron in the Form of Rods and Bars, and Anvils.
Claims use since the year 1900.

Ser. No. 118,280. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH W. ROUDA, Cincinnati, Ohio. Filed May 8, 1919.



Particular description of goods.—Salve for the Treatment of Severe Colds, Pneumonia, and Catarrhal Conditions.
Claims use since Jan. 2, 1918.

Ser. No. 118,324. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NOVAGRAPH FILM CORPORATION, New York, N. Y. Filed May 9, 1919.



Particular description of goods.—Motion-Pictures Showing the Analysis of Motion and Now Commonly Known as Slow-Motion Pictures or the "Analysis of Motion."
Claims use since Jan. 17, 1919.

Ser. No. 118,408. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE TAGIT COMPANY, Rockford, Ill. Filed May 12, 1919.

Tagiter

Consists of the word "Tagiter."
Particular description of goods.—Tag-Affixing Machines.
Claims use since June 15, 1917.

Ser. No. 118,615. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France. Filed May 17, 1919.



No claim is made to the exclusive right to the printed matter on the mark, with the exception of "Argentil," save for the particular arrangement thereof associated with the elements of the arbitrary design.
Particular description of goods.—A Liquid Polish for Cleaning and Polishing All Metals, More Particularly, Silver-Plate.
Claims use since February, 1918.

Ser. No. 118,625. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France. Filed May 17, 1919.

RADIA

Particular description of goods.—A Paste or Polish for Stoves, Ranges, and Pig-Iron Ware.
Claims use since June, 1901.

Ser. No. 119,028. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) COLUMBIA MINERAL WATER CO., St. Louis, Mo. Filed May 29, 1919.

Shamrock

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as a Soft Drink—Namely, Lemon-Soda, Sarsaparilla, and Ginger-Ale.
Claims use since January, 1909.

Ser. No. 119,351. (CLASS 39. CLOTHING.) LONDON SHOE COMPANY, New York, N. Y. Filed June 9, 1919.

London

No claim being made to the geographical term "London" apart from the mark shown.
Particular description of goods.—Shoes for Men, Women, and Children, Made of Leather, Rubber, Fabric, and a Combination of These Materials.
Claims use since May 24, 1919.

Ser. No. 119,539. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM SIMPSON (MANCHESTER) LIMITED, Stretford, near Manchester, England. Filed June 12, 1919.

LEMOCREME

Particular description of goods.—A Food Preparation or Conserve Known as Lemon Cheese or Lemon Curd.
Claims use since Oct. 9, 1918.

Ser. No. 120,117. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MIDWEST ENGINE COMPANY, Indianapolis, Ind. Filed June 30, 1919.

MIDWEST

Particular description of goods.—Tractors.
Claims use since June 10, 1919.

Ser. No. 120,411. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed July 10, 1919.

Washtint

No claim is made herein to the words, "A Washable Wall Tint" as a technical trade-mark apart from the mark shown in the drawing.
Particular description of goods.—Ready-Mixed Paints.
Claims use since Jan. 1, 1910.

Ser. No. 120,448. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CONSOLIDATED TOOL WORKS, INC., New York, N. Y. Filed July 11, 1919.

CONSOLIDATED TOOL WORKS INC. PVLOT

No claim being made to the words "Consolidated Tool Works, Inc."
Particular description of goods.—Hand and Breast Drills for Boring Holes, Braces for Boring Holes, Planes for Smoothing Surfaces of Iron, Steel, and Wood, and Chisels, Trowels, Knives, Screw-Drivers, Pliers, and Chucks.
Claims use since June 30, 1919.

Ser. No. 120,798. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY L. OXMAN, New York, N. Y. Filed July 22, 1919.

Glyco-Phenol

No claim is made to the words "Glyco-Phenol" apart from the mark as shown. The hatching indicates red.
Particular description of goods.—Antiseptic and Germicide.
Claims use since June 1, 1919.

Ser. No. 120,814. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHATEAU BOTTLING COMPANY, New York, N. Y. Filed July 23, 1919.

"Chateau"

Particular description of goods.—Non-Alcoholic Maltless Non-Cereal Beverages Sold as Soft Drinks.
Claims use since Mar. 3, 1919.

Ser. No. 121,432. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WORCESTER PRESSED STEEL COMPANY, Worcester, Mass. Filed Aug. 8, 1919.

PRESTEEL

No claim is made of an exclusive right to the use of the words "Pressed Steel," which words are expressly disclaimed as forming applicant's mark or any part thereof.
Particular description of goods.—Sheet-Metal Stampings and Pressed-Metal Parts.
Claims use since about Jan. 1, 1905.

Ser. No. 121,617. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CROLL-REYNOLDS CO. INC., New York, N. Y. Filed Aug. 13, 1919.

EVACTOR

Consisting of the word "Evactor."
Particular description of goods.—Air-Pumps.
Claims use since about December, 1917.

Ser. No. 122,345. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIES, ROSE & CO., LTD., Boston, Mass. Filed Sept. 5, 1919.

DEARCO

The word "Dearco."
Particular description of goods.—Antiseptic Solution, Analgesic Cream, Alkaline Antiseptic Tablets; Beef, Wine, and Iron with Hypophosphites; Beef, Iron, and Hypophosphites; Compound Blackberry Cordial, Blaud's Iron Pills, Blood-Tonic Pills, Compound Nux Vomica and Iron Pills, Bronchial Lozenges, Brown-Mixture Lozenges with Muriate of Ammonia, Carbolated Witch-Hazel Salve, Carbolic Salve, Aromatic Fluid Extract Cascara, Compressed Tablets Extract Cascara Sagrada, Cascara Active Tablets, Cascara Compound Tablets, Castoria, Catarrh Treatment Consisting of a Bottle of Antiseptic Wash and Collapsible Tube of Antiseptic Catarrh Jelly or Salve, Compound Cathartic Pills, Cathartic Liver-Pills, Catnip and Anise Syrup; Celery, Sarsaparilla, and Dandelion Compound; Charcoal Tablets, Compound Cod-Liver Extract with Hypophosphites, Laxative Cold and Grippe Tablets, Laxative Quinin-Compound Tablets, Corn Liquid, Corrosive Mercuric Chlorid Tablets, White-Pine Cough-Syrup, White-Pine and Tar Cough-Syrup, Cough-Balsam, Compound Syrup of Tar with Cod-Liver Extract, Cough and Croup Syrup, Dyspepsia-Tablets, Eye-Water, Compound Laxative Fig Syrup with Senna and Cascara, Germicide, Tincture of Ginger, Headache-Powders, Compound Syrup of Hypophosphites, Laxative Cordial; Liniment for Use in the External Treatment of Rheumatic and Neuralgic Pains, Soreness and Stiffness of the Muscles, Cramps, Chilblains, Sprains, and Bruises; Effervescent Lithia Tablets, Solution Manganese and Iron Peptonate, Solution Manganese and Iron Peptonate with Arsenic, Solution Manganese and Iron Peptonate with Cascara, Solution Manganese and Iron Peptonate with Cinchona, Solution Manganese and Iron Peptonate with Cinchona and Strychnin, Lotion to Overcome Itching, Vegetable Nervine, Pepsin Tablets, Pepsin and Charcoal Tablets, Pile-Suppositories, Potass. Chlorate Tablets, Respicol Ointment, Rheumatic Compound, Rhinitis Tablets, Compound Extract of Sarsaparilla, Slippery-Elm Lozenges, Soda-Mint Tablets, Soda-Mint and Charcoal Tablets, Soda-Mint and Pepsin Tablets, Sulfur and Cream-of-Tartar Lozenges, Tablets for the Throat, Tonic for Children, Toothache-Drops, Toothache-Gum, Witch-Hazel Salve, Worm-Lozenges, Cream of Rose and Almonds, Camphorated Quince Lotion, Cold-Cream, Lotion for the Complexion, Antiseptic Foot-Powder, Hair-Lotion, Nit-Lotion, Compound Larkspur Lotion, Scalp and Hair Tonic, Sachet-Powders, Shampoo-Powder, Toilet Powder, Tooth-Powder, and Quince Cream.
Claims use since August, 1916.

Ser. No. 122,346. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DAVIES, ROSE & CO., LTD., Boston, Mass. Filed Sept. 5, 1919.

KOOLALIME

The word "Koolalime."
Particular description of goods.—A Non-Alcoholic Non-Cereal Maltless Beverage Sold as a Soft Drink.
Claims use since Aug. 19, 1918.

Ser. No. 122,547. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSE M. PENDAS, New York, N. Y. Filed Sept. 10, 1919.

TANFORAN

Particular description of goods.—Skin-Lotion.
Claims use since about May 15, 1919.

Ser. No. 123,296. (CLASS 2. RECEPTACLES.) O. B. ANDREWS COMPANY, Chattanooga, Tenn. Filed Oct. 1, 1919.

"Ask the Judges"

Particular description of goods.—Wooden Boxes, Wire-Bound Boxes, Wooden Carriers for Soda-Water Bottles, Corrugated-Fiber Containers, Folding Boxes, Solid-Fiber Containers, Paper Shells for Bottles and Jars, and Stiff-Board Box Containers.
Claims use since Aug. 1, 1919.

Ser. No. 123,325. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VICTOR VIVAUDOU, New York, N. Y. Filed Oct. 1, 1919.

EXEDOL

Particular description of goods.—Face-Powders, Face-Creams, Perfumes, Toilet Waters, Rouges, Hair-Tonics, Dentifrices, Tooth-Powders, Nail-Polishes, Deodorizing Preparations, Brilliantines, Sachet-Powders, and Antiseptic Preparations.
Claims use since Sept. 24, 1919.

Ser. No. 123,819. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LYCOMING FOUNDRY AND MACHINE CO., Williamsport, Pa. Filed Oct. 15, 1919.

LYCOMING

The exclusive use of the word "Lycoming" is hereby disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Gasolene-Motors.
Claims use since December, 1918.

Ser. No. 123,957. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BOYD MANUFACTURING COMPANY, INC., Birmingham, Ala. Filed Oct. 20, 1919.

La Nola

Particular description of goods.—Face-Creams, Peroxid Creams, Night-Creams, Talcum Powders, Face-Powders, Perfumes, and Toilet Waters.
Claims use since Mar. 24, 1915.

Ser. No. 124,168. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR E. CLARK, Morrisville, N. Y. Filed Oct. 25, 1919.

KLADICK

Particular description of goods.—A Medicine for Colds, Headache, Neuralgia, Throat Trouble, and other Diseases Caused by Colds, Catarrh, Hay-Fever, and other Nasal and Throat Troubles and Diseases of the Respiratory Organs and as a Preventive and Remedy for Influenza and a Preventive of Diseases Contracted by Inhaling Germs and for a Germicide and Disinfectant for General Personal Use.
Claims use since June 15, 1914.

Ser. No. 124,222. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HERBERT E. MEDLEY, San Francisco, Calif. Filed Oct. 27, 1919.



Lines in the drawing indicate that the star is of an orange color and that the background is of a blue color.
Particular description of goods.—A Polish for Varnished Surfaces.
Claims use since Oct. 13, 1919.

Ser. No. 124,271. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUMPHREYS HOMEOPATHIC MEDICINE CO., New York, N. Y. Filed Oct. 28, 1919.



Particular description of goods.—Veterinary Medicines—viz., for the Treatment of Inflammation of the Lungs, Head, Eyes, Throat, Liver, Bowels, Bladder, Kidneys, Feet, and Legs, Inflammatory Colic, Milk Fever in Cows or Mares, Fits or Convulsions, Blind Staggers, Spinal Meningitis, and Pink-Eye.
Claims use since 1873.

Ser. No. 124,503. (CLASS 39. CLOTHING.) TWEEDIE FOOTWEAR CORPORATION, Jefferson City, Mo. Filed Nov. 3, 1919.

TWEEDIES Bootops

Particular description of goods.—Overgaiters and Spats.
Claims use since Feb. 25, 1919.

Ser. No. 124,632. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UTICA INSECTICIDE CO., Utica, N. Y. Filed Nov. 6, 1919.

NALGO

Particular description of goods.—Insecticides, Disinfectants, Vermin-Destroyers, Deodorants, and Fly and Insect Preventives.
Claims use since Jan. 11, 1919.

Ser. No. 124,679. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CLEVELAND PNEUMATIC TOOL COMPANY, Cleveland, Ohio. Filed Nov. 8, 1919.

Cleco

Particular description of goods.—Hose and Pipe Fittings Consisting of Valves for Air, Water, and other Fluids; Couplings, Hose-Nipples, Hose-Clamps, Y Hose-Fittings with and without Valves, Hose Menders or Splices, Clamps for Hose Menders or Splices, Manifolds, and Blow-Guns, the Latter Consisting of Valved Nozzles.
Claims use since about May, 1918.

Ser. No. 124,692. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SLONIM BROTHERS, Duluth, Minn. Filed Nov. 8, 1919.

DULUTH STANDARD

No claim is made to the words "Duluth Standard" apart from the fanciful form of the mark shown.
Particular description of goods.—Handkerchiefs.
Claims use since Nov. 4, 1919.

Ser. No. 124,694. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SLONIM BROTHERS, Duluth, Minn. Filed Nov. 8, 1919.

HEAD OF THE LAKES

Particular description of goods.—Handkerchiefs.
Claims use since Nov. 4, 1919.

Ser. No. 124,828. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed Nov. 13, 1919.



No claim being made to the exclusive use of the words "Ever Ready Shaving Stick Soap" apart from the mark as shown in the drawing.
Particular description of goods.—Soap.
Claims use since about Jan. 1, 1913.

Ser. No. 124,847. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BOYD MILLING COMPANY, Sharpsville, Pa. Filed Nov. 13, 1919.

Rose of Sharon

Particular description of goods.—Wheat-Flour.
Claims use since Feb. 24, 1914.

Ser. No. 125,319. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DEVEAU PACKING CO., New York, N. Y., and Green Hill, Pa. Filed Nov. 26, 1919.

DEVEAU BRAND

Particular description of goods.—Canned Mushrooms.
Claims use since on or about Nov. 21, 1916.

Ser. No. 125,486. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GEORGE W. BAKER, Dallas, Tex. Filed Dec. 2, 1919.

Dy-O-La

The cross-lining on the drawing does not indicate color, but is for the purpose of shading.
Particular description of goods.—A Shoe and Leather Polish Including a Dye as One of Its Ingredients.
Claims use since about Nov. 22,1919.

Ser. No. 125,523. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN ROAD MACHINERY COMPANY, INC., Kennett Square, Pa. Filed Dec. 3, 1919.

WINNER

Particular description of goods.—Wheel-Mounted Road-Grading Machines.
Claims use since about Feb. 24, 1910.

Ser. No. 125,828. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THOMAS A. COPPOCK, Los Angeles, Calif. Filed Dec. 11, 1919.



CLEANWOOD

Particular description of goods.—A Cleansing Fluid for Cleaning Woodwork, White Enamel, Furniture, Linoleum, Brick, and Tile.
Claims use since Apr. 1, 1919.

Ser. No. 126,001. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELLWOOD BERTE, Peoria, Ill. Filed Dec. 15, 1919.



No claim is made to the surname "Katzing's" or the words "Famous," "Chocolates," and "Peoria" apart from the other features of mark as shown on the drawing.
Particular description of goods.—Candies.
Claims use since about Jan. 1, 1896.

Ser. No. 126,255. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) WALTER M. LYMAN, Philadelphia, Pa. Filed Dec. 19, 1919.

FIXFIT

THE FIX-FITTER AT THE BREAST OF THE FIXFIT BLANKET, FIXES THE FIT FOR ANY HORSE OR MULE

The words, "The Fix-Fitter at the Breast of the Fixfit Blanket Fixes the Fit for Any Horse or Mule," are not claimed apart from the mark shown in the drawing.
Particular description of goods.—Animal-Blankets.
Claims use since about Oct. 1, 1915.

Ser. No. 126,276. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY EVANS, Waco, Tex. Filed Dec. 20, 1919.



The picture is a portrait of Mattie Evans of Waco, Tex.
Particular description of goods.—Preparation Used in the Treatment of the Skin and Hair.
Claims use since Oct. 1, 1919.

Ser. No. 126,394. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STARKO DRUG MANUFACTURING CO. INC., Buffalo, N. Y. Filed Dec. 23, 1919.



The lining shown on the drawing is intended to represent merely shading and not color lining. The words "Buffalo, New York" are disclaimed by us at this time.
Particular description of goods.—Liniment to be Used in the Treatment of Rheumatism, Neuralgia, Stiff Neck, Lame Back, Gout, Inflammation, Swelling, Stiffness, Sprains, Bruises, Contusions, Pain in the Side, Sore Throat, Pain in the Chest, Colds, Swollen or Enlarged Glands, Tonsilitis, Bites of Insects, Frost Bites, and Sore Muscles.
Claims use since Dec. 20, 1918.

Ser. No. 126,411. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN H. CHAPMAN, Chicago, Ill. Filed Dec. 24, 1919.

LivOn Bread

The word "Bread" is disclaimed except as used with the other features of the mark.
Particular description of goods.—Bread.
Claims use since Oct. 28, 1919.

Ser. No. 126,499½. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WOL-BUR VALVE COMPANY, Lincoln, Nebr. Filed Dec. 26, 1919.

WolBur

Particular description of goods.—Steam-Pressure-Controlling Valves.
Claims use since Apr. 1, 1919.

Ser. No. 126,551. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FLOUR MILL CO., Davenport, Iowa. Filed Dec. 27, 1919.

SOLIDARITY

Particular description of goods.—Wheat-Flour.
Claims use since Nov. 7, 1919.

Ser. No. 126,632. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN HUT, Montreal, Quebec, Canada. Filed Dec. 30, 1919.



John Hut

Particular description of goods.—Medical Preparations for Epilepsy.
Claims use since July 1, 1919.

Ser. No. 126,676. (CLASS 39. CLOTHING.) DAVENPORT HOSIERY MILLS, Chattanooga, Tenn. Filed Dec. 31, 1919.



The picture is fanciful.
Particular description of goods.—Hosiery.
Claims use since Dec. 23, 1919.

Ser. No. 126,690. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MILTON BRADLEY COMPANY, Springfield, Mass. Filed Dec. 31, 1919.

MASTER ART

Particular description of goods.—Water-Color Paints.
Claims use since Oct. 11, 1919.

Ser. No. 126,712. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM BREWSTER COMPANY, INC., New York, N. Y. Filed Jan. 2, 1920.



Particular description of goods.—Drill-Sleeves and Drill-Sockets.
Claims use since Dec. 1, 1919.

Ser. No. 126,751½. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WHEELOCK, LOVEJOY & COMPANY, INC., Cambridge, Mass.; New York, N. Y., and Cleveland, Ohio. Filed Jan. 2, 1920.

WHELCO

Particular description of goods.—Tool-Steels.
Claims use since Jan. 1, 1919.

Ser. No. 126,796. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE GEM EAR PHONE CO., New York, N. Y. Filed Jan. 5, 1920.

GEM

Particular description of goods.—Ear-Phones.
Claims use since Jan. 1, 1919.

Ser. No. 127,003. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LA PARFAIT MFG. CO., Pittsburgh, Pa. Filed Jan. 10, 1920.

PARFAY

The shading being provided to indicate red.
Particular description of goods.—Furniture-Polish.
Claims use since Sept. 1, 1919.

Ser. No. 127,043. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DEFTIC COMPANY, INC., New York, N. Y. Filed Jan. 12, 1920.

DOMO

Particular description of goods.—Preparations for Treatment of the Hair and Scalp to Promote Growth of Hair, to Remove Dandruff, to Cleanse the Scalp, to Prevent Loss of Hair, and to Restore Hair.
Claims use since Nov. 1, 1918.

Ser. No. 127,217. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FRED L. KECK, Jeannette, Pa. Filed Jan. 16, 1920.

KECKO KEMICAL KOMPOUND

Without waiving any common-law right the words, "Kemical Kompound" are disclaimed apart from the mark shown.
Particular description of goods.—A Compound in the Nature of a Paint Adapted to be Applied to Steel and Iron of All Descriptions for Preventing Corrosion, Rust, &c.
Claims use since Aug. 13, 1919.

Ser. No. 127,277. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANGELUS CO., Seattle, Wash. Filed Jan. 19, 1920.

Angelus

Particular description of goods.—Medicated Beautifier, (a Medicated Ointment Used Externally for Correcting Muddy Complexions, Sallowness, Tan, Redness, Freckles, Dry, Rough, and Irritated Skins, Pimples, Eczema, and Discolorations;) Medicated Face-Powder; Medicated Face-Cream; Blackhead Remover and Preventive; Angel-Bouquet Talcum, (a Talcum Powder.)
Claims use since Nov. 15, 1919.

Ser. No. 127,349. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) B. F. AVERY & SONS, Louisville, Ky. Filed Jan. 20, 1920.

VOITTAJA

Particular description of goods.—Reapers, Headers, Mowers, Rakes, Tedders, Loaders, Knife-Grinders, and Extra Repair Parts for Said Machines.
Claims use since January, 1909.

Ser. No. 127,396. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REDONDO PACKING CO., Redondo, Calif. Filed Jan. 20, 1920.

PIAVE BRAND

No claim is made to exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fish—Namely Canned Sardines and Canned Tuna.
Claims use since Dec. 10, 1919.

Ser. No. 127,712. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NICHOLAS B. BARTZ, Grand Rapids, Mich. Filed Jan. 29, 1920.

ALBECA

Particular description of goods.—Pills.
Claims use since Jan. 1, 1910, and before.

Ser. No. 127,963. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 4, 1920.

GOLDEN SEAL BLANKETS

No claim is made to the word "Blankets" apart from the mark shown in the drawing.
Particular description of goods.—Manufactured Blankets of All Cotton, Cotton and Wool, and All Wool.
Claims use since Sept. 19, 1919.

Ser. No. 128,201. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILL D. COX, Charleston, W. Va. Filed Feb. 10, 1920.

Mountain State

Particular description of goods.—Medicine for Goiter.
Claims use since Jan. 1, 1920.

Ser. No. 128,298. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL TUBERCULOSIS ASSOCIATION, New York, N. Y. Filed Feb. 12, 1920.

Particular description of goods.—Pamphlets, Circulars, and Printed Books.
Claims use since 1902.

Ser. No. 128,405. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PATTON PAINT COMPANY, Milwaukee, Wis. Filed Feb. 14, 1920.

Sunbright

Particular description of goods.—Liquid Metal-Polish
Claims use since Jan. 1, 1909.

Ser. No. 128,603. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HUMANA COMPANY, Newark, N. J. Filed Feb. 19, 1920.

KLYMAX

Particular description of goods.—Automatic Feeder Attachments for Chandler & Price Printing-Presses.
Claims use since Jan. 1, 1910.

Ser. No. 128,673. (CLASS 30. CLOTHING.) THOMAS A. FARRELL, Boston, Mass. Filed Feb. 20, 1920.

UNEEDA

Particular description of goods.—Rubber Heels and Rubber Footwear.
Claims use since Feb. 2, 1920.

Ser. No. 128,728. (CLASS 16. PAINTS, AND PAINTERS' MATERIALS.) CRYSTAL-LAC PRODUCTS COMPANY, Los Angeles, Calif. Filed Feb. 21, 1920.

Crystallac

Particular description of goods.—Liquid Cleaning and Polishing Materials for Automobile-Bodies.
Claims use since July 7, 1917.

Ser. No. 128,857. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROBERT NICHOLSON, Dallas, Tex. Filed Feb. 24, 1920.

NICHOLSON'S R.N. PURITY BRAND TESTED SEEDS

No claim being made to the exclusive use of the words "Nicholson's," "Brand," "Tested," "Seeds," or "Purity" apart from the mark shown in the drawing without waiver of any rights of applicant thereto under the common law.
Particular description of goods.—Agricultural, Vegetable, and Flower Seeds.
Claims use since Oct. 15, 1919.

Ser. No. 128,861. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GEORGIA W. PERKINS, Warren, Mass. Filed Feb. 24, 1920.

U-SAV-YOUR

Particular description of goods.—Automobile, Furniture, and Piano Cleanser, Dressing, and Polish.
Claims use since Sept. 23, 1914.

Ser. No. 128,948. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed Feb. 27, 1920.

A

Particular description of goods.—Hard-Rubber Rods, Hard-Rubber Sheets and Hard-Rubber Tubes.
Claims use since Feb. 24, 1920.

Ser. No. 129,062. CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RAYMOND HADLEY CORPORATION, New York, N. Y. Filed Mar. 1, 1920.

ARUNDEL

Particular description of goods.—Wheat-Flour.
Claims use since January, 1906.

Ser. No. 129,195. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. E. TILLOTSON MANUFACTURING COMPANY, Pittsfield, Mass. Filed Mar. 3, 1920. Under ten-year proviso.

SILVER LAKE

Particular description of goods.—Worsteds in the Piece.
Claims use since Jan. 1, 1890.

Ser. No. 129,243. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ORVILLE SIMPSON COMPANY, Cincinnati, Ohio. Filed Mar. 4, 1920.

QUEEN OF THE SOUTH

Particular description of goods.—Mills for Grinding Grain, Drugs, Spices, Plaster, Starch, Salt, Coffee, and Similar Materials.
Claims use since 1843.

Ser. No. 129,254. (CLASS 38. PRINTS AND PUBLICATIONS.) CLASS JOURNAL COMPANY, New York, N. Y. Filed Mar. 5, 1920.

AUTOMOTIVE INDUSTRIES
AUTOMOBILE

Particular description of goods.—A Weekly Periodical Devoted to Subjects Relating to the Manufacturing and Marketing of Automotive Products.
Claims use since October, 1917.

Ser. No. 129,255. (CLASS 38. PRINTS AND PUBLICATIONS.) CLASS JOURNAL COMPANY, New York, N. Y. Filed Mar. 5, 1920.

El Automóvil Americano

Particular description of goods.—A Periodical Issued Quarterly and at Shorter Periods Relating to Automotive Products.
Claims use since March, 1917.

Ser. No. 129,275. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATHAN AND COHEN CO., INC., New York, N. Y. Filed Mar. 5, 1920.

MILDRED MILLS

Particular description of goods.—Silk and Cotton Mixture Piece Goods.
Claims use since Jan. 1, 1910.

Ser. No. 129,340. (CLASS 17. TOBACCO PRODUCTS.) PERFECTO MANUFACTURERS, INC., New York, N. Y. Filed Mar. 6, 1920.

ROSAROMA

Particular description of goods.—Cigars.
Claims use since Feb. 10, 1920.

Ser. No. 129,352. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MOE SIMON, New York, N. Y. Filed Mar. 6, 1920.

SYMO Fabrics

No claim being made to the exclusive use of the word "Fabrics" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since September, 1919.

Ser. No. 129,375. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CRITZ MANUFACTURING COMPANY, Santa Maria, Calif. Filed Mar. 8, 1920.

CRITZ

Particular description of goods.—Hand-Force-Pump Lubricating Systems.
Claims use since Jan. 12, 1920.

Ser. No. 129,384. (CLASS 17. TOBACCO PRODUCTS.) F. R. AND R. M. GOODRICH, Portland, Conn. Filed Mar. 8, 1920.

PORTLAND P.

No claim is made to the word "Portland" apart from the mark shown in the drawing.
Particular description of goods.—Baled Tobacco.
Claims use since January, 1915.

Ser. No. 129,414. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) NICHOLSON CONSTRUCTION CO., Kansas City, Mo. Filed Mar. 8, 1920.

BONNIE

Particular description of goods.—Brooms.
Claims use since Feb. 18, 1920.

Ser. No. 129,444. (CLASS 17. TOBACCO PRODUCTS.) HENRY CLAY AND BOCK & CO., LTD., New York, N. Y. Filed Mar. 9, 1920. Under ten-year proviso.

BOCK & Co.

Particular description of goods.—Cigars.
Claims use since 1864.

Ser. No. 129,446. (CLASS 17. TOBACCO PRODUCTS.) HENRY CLAY AND BOCK & CO., LTD., New York, N. Y. Filed Mar. 9, 1920.

LA FLOR DE HENRY CLAY
JULIAN ALV!

Particular description of goods.—Cigars.
Claims use since 1851.

Ser. No. 129,520. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) UNITED STATES FERRO ALLOYS CORPORATION, New York, N. Y. Filed Mar. 10, 1920.

USFAC

Particular description of goods.—Ferro Alloys.
Claims use since Oct. 15, 1919.

Ser. No. 129,888. (CLASS 39. CLOTHING.) THE FUTURIST COMPANY, Chicago, Ill. Filed Mar. 18, 1920.

All-In-One
UNDER TOGS

The words "Under Togs" being disclaimed apart from the mark as shown.
Particular description of goods.—Men's, Women's, and Children's Underwear—Namely, One, Two, and Three Piece Garments of Textile Fabrics.
Claims use since Feb. 26, 1920.

Ser. No. 129,923. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CLARENCE L. COX, Cleveland, Ohio. Filed Mar. 19, 1920.

ANUSHELAK

Particular description of goods.—Surface Finishing or Treating Compound of the General Nature of Varnish.
Claims use since Nov. 15, 1919.

Ser. No. 129,924. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed Mar. 19, 1920.

CRYSTALAC

Particular description of goods.—Lacquer.
Claims use since Oct. 18, 1918.

Ser. No. 130,024. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DETROIT REAMER & TOOL CO., Detroit, Mich. Filed Mar. 22, 1920.

DTR

Particular description of goods.—Tools—Namely, Drills, Reamers, Counterbores, Mandrels, Sleeves, Sockets, Arbors, End Mills, Milling-Cutters, Slitting-Saws, Hollow Mills, Keyway-Cutters, and Special Tools Made to Order.
Claims use since May 1, 1918.

Ser. No. 130,050. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LEE LOADER & BODY COMPANY, Chicago, Ill. Filed Mar. 22, 1920.

LEE LINE

No claim is made to the word "Line" apart from the mark shown in the drawing.
Particular description of goods.—Trailers, Motor and Hand Trucks, and Dumping-Bodies.
Claims use since 1918.

Ser. No. 130,120. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROGERS BROWN & COMPANY, Seattle, Wash. Filed Mar. 24, 1920.

ROGERS BROWN & COMPANY
B

Particular description of goods.—Cotton-Seed Meal, Soy-Bean Cake and Meal, Peanut-Meal, Linseed Cake and Meal, Cocoanut (or Copra) Cake or Meal, Ground Bone, Ground Shell, Peanuts, Beans, Peas, and Dried Fish and Whale Meat.
Claims use since July 1, 1919.

Ser. No. 130,144. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. KOHNSTAMM & Co., New York, N. Y. Filed Mar. 24, 1920.



No claim being made herein to the word "Cloth" apart from the mark shown in the drawing.

Particular description of goods.—Launders Sold in the Piece.

Claims use since about Mar. 1, 1910.

Ser. No. 130,211. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHELSEA ENGINEERING SALES CORPORATION, New York, N. Y. Filed Mar. 26, 1920.



Particular description of goods.—Black Lead (Paint), Graphite Paint, Linseed-Oil, Oil for Painting; Dry, Paste, and Ready-Mixed Paints, Polish (Furniture), Putty, Turpentine, and Varnish.

Claims use since about October, 1918.

Ser. No. 130,248. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNITED STATES AUTOMOTIVE CORPORATION, Connersville, Ind. Filed Mar. 26, 1920.



Applicant disclaims the use of the words "Two Way" as its trade-mark.

Particular description of goods.—Electrical Vehicle Head-Lamps.

Claims use since Dec. 1, 1919.

Ser. No. 130,259. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) AMERICAN BURTONIZING COMPANY AND WALLERSTEIN LABORATORIES, New York, N. Y. Filed Mar. 27, 1920.

WALCO

Particular description of goods.—Non-Alcoholic Beverages Sold as Soft Drinks.

Claims use since Nov. 21, 1919.

Ser. No. 130,287. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) POST PICTURES CORPORATION, New York, N. Y. Filed Mar. 27, 1920.



The black rectangular area forming background for the letters forms no part of the trade-mark.

Particular description of goods.—Pictures to be Projected upon a Screen, Both Still and Animated; Motion-Picture Films, Machines for Taking and Projecting Pictures, Both Still and Animated, and Screens upon Which Pictures, Both Still and Animated, are Projected.

Claims use since August, 1919.

Ser. No. 130,296. (CLASS 17. TOBACCO PRODUCTS.) SMITH & SCOTT TOBACCO CO., INCORPORATED, Paducah, Ky. Filed Mar. 27, 1920.



No claim being made to the exclusive use of the word "Kentucky" apart from the mark as shown in the drawing, the picture shown being fanciful.

Particular description of goods.—Smoking-Tobacco.

Claims use since Nov. 21, 1919.

Ser. No. 130,325. (CLASS 39. CLOTHING.) SIGMUND S. GASS, New York, N. Y. Filed Mar. 29, 1920.

Union

Particular description of goods.—Work-Shirts.

Claims use since Jan. 1, 1918.

Ser. No. 130,342. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SOSS MANUFACTURING CO., Brooklyn, N. Y. Filed Mar. 29, 1920.



No claim is made to the picture of the hinge independent of the drawing of which it forms a part.

Particular description of goods.—Hinges.

Claims use since 1909.

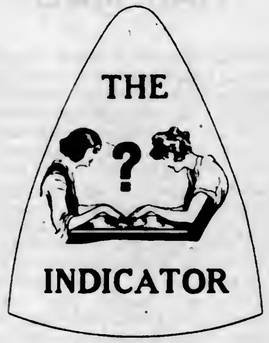
Ser. No. 130,391. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) REICHMAN & FAUST, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Hair-Brushes, Eyebrow-Brushes, Flesh-Brushes, Nail-Brushes, Toothbrushes, Bath-Brushes, Shampoo-Brushes, Hat-Brushes, Clothes-Brushes, and Shoe-Brushes.

Claims use since April, 1915.

Ser. No. 130,526. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HERBERT E. DILL, Hingham, Mass. Filed Apr. 2, 1920.



No claim being made to the words "The Indicator" apart from the mark shown.

Particular description of goods.—Toys in the nature of Planchettes.

Claims use since Feb. 28, 1920.

Ser. No. 130,646. (CLASS 39. CLOTHING.) CUETARA BROTHERS, New York, N. Y. Filed Apr. 5, 1920.

Overway

Particular description of goods.—Shoes, Including Shoes of Leather; Rubber; Fabric; Leather and Rubber; Leather and Fabric; Rubber and Fabric; Leather, Rubber, and Fabric.

Claims use since 1905.

Ser. No. 130,689. (CLASS 39. CLOTHING.) STEPHENSON UNDERWEAR MILLS, South Bend, Ind. Filed Apr. 5, 1920.



Particular description of goods.—Men's, Women's, and Children's Underwear Comprising One and Two Piece Garments and Made of Knitted Fabrics.

Claims use since December, 1919.

Ser. No. 130,697. (CLASS 39. CLOTHING.) THE SCHWARZ-HEXTER CO., Cleveland, Ohio. Filed Apr. 5, 1920.

Jaunty Jane

Particular description of goods.—Women's Coats.

Claims use since Dec. 1, 1919.

Ser. No. 130,750. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARRY BECKER, New Orleans, La. Filed Apr. 7, 1920.



Particular description of goods.—Paint-Remover.

Claims use since about February, 1920.

Ser. No. 130,763. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARRY J. LEBHRAZ, Frederick, Md. Filed Apr. 7, 1920.

EVEREDY

Exclusive use of the words "Ever Ready" is disclaimed.

Particular description of goods.—Bottle-Cappers.
Claims use since Mar. 5, 1920.

Ser. No. 130,766. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL FEDERATION OF FEDERAL EMPLOYEES, Washington, D. C. Filed Apr. 7, 1920.



Particular description of goods.—Weekly Periodical.
Claims use since July 1, 1916.

Ser. No. 130,791. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed Apr. 8, 1920.

FREMISSANTE

Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and China Grass.
Claims use since Apr. 26, 1911.

Ser. No. 130,793. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed Apr. 8, 1920.

PARISATIN

Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and China Grass.
Claims use since June 14, 1917.

Ser. No. 130,809. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE DUNLOP RUBBER COMPANY, LIMITED, Regents Park, London, England. Filed Apr. 8, 1920.

VAC

Particular description of goods.—Golf-Balls.
Claims use since January, 1918.

Ser. No. 130,823. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ALBERT C. FISCHER, Chicago, Ill. Filed Apr. 8, 1920.

SERVICISED
LOOK FOR IT ON ALL PURCHASES

No claim is made for the words "Look for It on All Purchases."

Particular description of goods.—Grape-Juice and Non-Alcoholic Soft Drinks.
Claims use since Jan. 15, 1920.

Ser. No. 130,849. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ELMER ANDREW PRATT, Erie, Pa. Filed Apr. 8, 1920.

TRU-LITE

Particular description of goods.—Glass Drawer-Knobs, Glass Doorknobs, and Glass Door Push-Plates.
Claims use since the year of 1913.

Ser. No. 130,880. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) COHN & ROSENBERGER, INC., New York, N. Y. Filed Apr. 9, 1920.

Coro

Particular description of goods.—Pocket-Books, Bill-Cases, Traveling-Bags, and Purses.
Claims use since July, 1919.

Ser. No. 130,893. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARPER & MCINTIRE COMPANY, INCORPORATED, Ottumwa, Iowa. Filed Apr. 9, 1920.

HAR-MAC

Particular description of goods.—Air-Pumps, Axes, Blades for Wood-Saws, Boys' Axes, Bread-Knives, Bucket-Pumps, Can-Openers, Cold Chisels, Food-Choppers, Hand Vacuum-Cleaners, Hay-Forks, Manure-Forks, Mounted Grindstones, Machinists' Hammers, Mechanics' Tool-Handles, Agricultural Tool-Handles, Ax-Handles, Cook-Knives, Kitchen-Knives, Paring-Knives, Pocket-Knives, Butcher-Knives, Mechanical Oilers for Mowing-Machines, Spray-Pumps, Water-Pumps, Wood-Saws, Crosscut-Saws, Scissors, Shears, Tinners' Snips, Scout-Axes, Grain-Scoops, Coal-Scoops, Furnace-Scoops, Sewing-Machines, Dirt-Shovels, Fire-Shovels, Spades, Carpenters' Tools, (specifically named as follows:) Adzes, Auger-Bits, Bits for Boring, Carpenters' Chisels, Files, Nail-Hammers, Hatchets, Carpenters' Planes, Handsaws, Screw-Drivers, Mallets, Cabinet-Scrapers, Nail-Sets, Braces for Boring-Bits, Vises, Saw-Sets, Saw-Clamps, Cabinet-Clamps, Drawing-Knives, Miter-Boxes, Hacksaw-Frames, Hacksaw-Blades, Pincers, Glass-Cutters, and Machinists' Tools, (specifically named as follows:) Punches, Chisels, Taps, and Wrenches.
Claims use since Jan. 1, 1909.

Ser. No. 130,894. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HARPER & MCINTIRE COMPANY, INCORPORATED, Ottumwa, Iowa. Filed Apr. 9, 1920.

HAR-MAC

Particular description of goods.—Air-Rifles, Sleds, Boys' Express-Wagons and Coaster-Wagons.
Claims use since Jan. 1, 1909.

Ser. No. 130,931. (CLASS 17. TOBACCO PRODUCTS.) CHARLES J. SPIETZ, Detroit, Mich. Filed Apr. 9, 1920.

ROBERT EMMET

Particular description of goods.—Cigars.
Claims use since 1887.

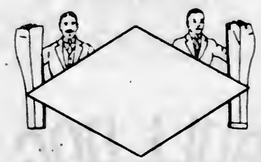
Ser. No. 130,967. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBERT H. LINTON, New York, N. Y. Filed Apr. 10, 1920.

ADMIRALTY SERGES

No claim being made to the exclusive use of the words "Admiralty Serges" apart from the mark as shown in the drawing.

Particular description of goods.—Cotton Piece Goods and Woolen Piece Goods.
Claims use since Sept. 15, 1913.

Ser. No. 131,068. (CLASS 39. CLOTHING.) FRANKEL BROTHERS, New York, N. Y. Filed Apr. 13, 1920.



Applicant hereby disclaims the representation of a pair of trousers as shown on the drawings.

Particular description of goods.—Men's Trousers, Coats, Vests, Overcoats, and Suits.
Claims use since Apr. 5, 1920.

Ser. No. 131,115. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LOGAN IRON & STEEL COMPANY, Philadelphia, Pa. Filed Apr. 14, 1920.

SLB

Particular description of goods.—Staybolt-Iron.
Claims use since Oct. 16, 1916.

Ser. No. 131,151. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB DOLD PACKING CO., Buffalo, N. Y. Filed Apr. 15, 1920.

Dold QUALITY

No claim is made to the word "Quality" apart from the mark as shown in the drawings.

Particular description of goods.—Packing-House Products Comprising Smoked, Cured, Dried, Pickled, Boiled, and Canned Meats; Sauaage, Lard, Lard Substitutes, Oleomargarin; Canned Fruits and Vegetables, Chilli Sauce, Tomato Catsup, Jams, Preserves, Butter, Peanut-Butter, and Evaporated Milk.
Claims use since during or about the year 1888.

Ser. No. 131,152. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB DOLD PACKING CO., Buffalo, N. Y. Filed Apr. 15, 1920.

Dold QUALITY

No claim is made to the word "Quality" apart from the mark as shown in the drawing.

Particular description of goods.—Packing-House Products Comprising Smoked, Cured, Dried, Pickled, Boiled, and Canned Meats; Sausage, Lard, Lard Substitutes, Oleomargarin; Canned Fruits and Vegetables, Chilli Sauce, Tomato Catsup, Jams, Preserves, Butter, Peanut-Butter, and Evaporated Milk.
Claims use since on or about January, 1917.

Ser. No. 131,153. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB DOLD PACKING CO., Buffalo, N. Y. Filed Apr. 15, 1920. Under ten-year proviso.

NIAGARA

Particular description of goods.—Packing-House Products Comprising Smoked, Cured, Dried, Pickled, Boiled, and Canned Meats; Sausage, Lard, Lard Substitutes, Oleomargarin, Oleo-Oil, Oleo-Stock, Canned Fruits and Vegetables, Chilli Sauce, Tomato Catsup, Peanut-Butter, and Evaporated Milk.
Claims use since during or about the year 1888.

Ser. No. 131,193. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WALTER TAYLOR, Hammondsport, N. Y. Filed Apr. 15, 1920.

Chateau Rheims SPARKLING BRUT

No claim is made to the exclusive use of the descriptive words "Sparkling Brut" except in the setting and relation in which they appear in the drawing.

Particular description of goods.—Grape-Juice.

Claims use since on or about Jan. 1, 1920.

Ser. No. 131,198. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WESTBROOK ELEVATOR MFG. CO., Danville, Va. Filed Apr. 15, 1920.

Westbrook ELEVATORS

No claim is made to the exclusive use of the word "Elevators" except in the setting and relation in which it applies in the drawing, description, and samples of the trade-mark filed with this application.

Particular description of goods.—Freight and Passenger Elevators.

Claims use since December, 1918.

Ser. No. 131,296. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANAHEIM ORANGE & LEMON ASSN., Anaheim, Calif. Filed Apr. 19, 1920.



The picture of the girl being fanciful.

Particular description of goods.—Fresh Citrus Fruit.

Claims use since Dec. 15, 1919.

Ser. No. 131,309. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) FRED W. CONNOLLY, Boston, Mass. Filed Apr. 19, 1920.

Cherry Bounce TRADE MARK

The words "Cherry Bounce Co.," "Boston, Mass.," and "Trade Mark" do not constitute any part of the trade-mark.

Particular description of goods.—A Non-Alcoholic Non-Cereal Maltless Beverage Sold as a Soft Drink and a Syrup Used for Making Same by Diluting with Plain or Carbonated Water.

Claims use since June 1, 1919.

Ser. No. 131,338. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) H. KRAMER & CO., Chicago, Ill. Filed Apr. 19, 1920.

KMCO

Particular description of goods.—Bearing Metals and other Metal Products Consisting of Castings.

Claims use since Nov. 1, 1919.

Ser. No. 131,391. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MICHAEL A. JOHNSON, Portland, Me. Filed Apr. 20, 1920.

REFINO

Particular description of goods.—Furniture-Polish.

Claims use since Jan. 1, 1920.

Ser. No. 131,425. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HOLT MANUFACTURING COMPANY, Stockton, Calif. Filed Apr. 21, 1920.

ORUGA

Particular description of goods.—Tractors, Internal-Combustion Engines, Harvesters, Plows and Plowing Outfits, Harrows and Harrowing Outfits, Road-Working Machines, Land-Levelers, Self-Laying Tracks and the Parts Thereof.

Claims use since June, 1911.

Ser. No. 131,456. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WESTERN PATTERN WORKS, Seattle, Wash. Filed Apr. 21, 1920.

BULL DOG

Particular description of goods.—Aluminum Coffee and Tea Pots, Frying-Pans, and Stew-Kettles.

Claims use since Mar. 1, 1920.

Ser. No. 131,469. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DONGAN ELECTRIC MANUFACTURING CO., Detroit, Mich. Filed Apr. 22, 1920.

DONGAN

Particular description of goods.—Transformers.

Claims use since January, 1915.

Ser. No. 131,472. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE EAGLE-PICHER LEAD CO., Cincinnati, Ohio. Filed Apr. 22, 1920.

PICHER

Particular description of goods.—Pig-Lead, Spelter, Sheet-Zinc and Slab-Zinc.

Claims use since 1888.

Ser. No. 131,473. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE EAGLE-PICHER LEAD CO., Cincinnati, Ohio. Filed Apr. 22, 1920.

PICHER

Particular description of goods.—Plumbers' Lead Supplies Consisting of Lead Pipes, Bends, Traps, and Ferrules.

Claims use since 1888.

Ser. No. 131,474. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE EAGLE-PICHER LEAD CO., Cincinnati, Ohio. Filed Apr. 22, 1920.

PICHER

Particular description of goods.—The Following Goods Used in Connection with Paints—Namely, Sublimed White Lead, (Basic Sulfate,) Both Dry and Ground in Oil; White Lead, (Basic Carbonate,) Both Dry and Ground in Oil; Sulfate-Carbonate Combination, (Both Dry and Ground in Oil;) Litharge, (Lead Oxid;) Red Lead, (Lead Oxid,) Both Dry and Ground in Oil; Orange Mineral, (Lead Oxid;) Zinc Oxid, Blue Powder, Zinc Salts, Lithopone, Paint Pigments, and Ready-Mixed Paints.

Claims use since 1888.

Ser. No. 131,481. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROBERT HENDERSON, San Francisco, Calif. Filed Apr. 22, 1920.

Kleentex PRODUCTS CO.

Particular description of goods.—Carpet, Rug, and Fabric Cleansing Preparation.

Claims use since Nov. 17, 1919.

Ser. No. 131,526. (CLASS 37. PAPER AND STATIONERY.) EBERHARD FABER, Brooklyn, N. Y. Filed Apr. 23, 1920. Under ten-year proviso.

1080

TEN-EIGHTY

Particular description of goods.—Erasers of Rubber or of Rubber Composition.

Claims use since 1894.

Ser. No. 131,580. (CLASS 39. CLOTHING.) HOOD RUBBER COMPANY, Watertown, Mass. Filed Apr. 24, 1920.

Snugs

Particular description of goods.—Rubber Boots and Shoes, Rubber Overshoes, and Rubber-Soled Canvas Shoes.

Claims use since Mar. 4, 1920.

Ser. No. 131,642. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MATTHEW LAMMERS, Oostburg, Wis. Filed Apr. 26, 1920.

Justice

Particular description of goods.—Milkers.

Claims use since Mar. 6, 1920.

Ser. No. 131,684. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALTER CONCRETE MACHINERY CO., Indianapolis, Ind. Filed Apr. 26, 1920.



The lining shown in the drawing is to indicate shading only.

Particular description of goods.—Concrete-Roofing-Tile Machines.

Claims use since Sept. 8, 1915.

Ser. No. 131,790. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE CHESTER M. GOODYEAR CO., Greenville, S. C. Filed Apr. 29, 1920.

GOODYEAR WASTE

Which is lined for red and blue. Exclusive use of the word "Waste" is disclaimed except in the particular form in which it is incorporated in the trade-mark presented.

Particular description of goods.—Cotton Mill Waste.

Claims use since April, 1919.

Ser. No. 131,800. (CLASS 39. CLOTHING.) HARRY KREPS, Jersey City, N. J. Filed Apr. 29, 1920.

AKME HOSIERY

No claim is made to the word "Hosiery" apart from the showing in the drawing.
Particular description of goods.—Hosiery.
Claims use since Mar. 1, 1920.

Ser. No. 131,807. (CLASS 37. PAPER AND STATIONERY.) FELIX LAUTER, Albany, N. Y. Filed Apr. 29, 1920.

EBOLITE

Particular description of goods.—Penholders, Fountain-Pens, and Pencil-Holders.
Claims use since Apr. 12, 1920.

Ser. No. 131,811. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FELIX LAUTER, Albany, N. Y. Filed Apr. 29, 1920.

EBOLITE

Particular description of goods.—Knife-Handles and Tool-Handles.
Claims use since Apr. 12, 1920.

Ser. No. 131,845. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WICHITA MOTORS COMPANY, Wichita Falls, Tex. Filed Apr. 29, 1920.

WICHITA

Particular description of goods.—Motor-Trucks.
Claims use since Jan. 2, 1918.

Ser. No. 131,866. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) M. GLAUBER & COMPANY, New York, N. Y. Filed Apr. 30, 1920.

BUOY

Particular description of goods.—Ball-Valves for Flushing-Tanks.
Claims use since February, 1919.

Ser. No. 131,875. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KARDELL TRACTOR AND TRUCK COMPANY, St. Louis, Mo. Filed Apr. 30, 1920.

KARDELL UTILITY

Particular description of goods.—Tractors.
Claims use since Mar. 1, 1918.

Ser. No. 131,882. (CLASS 39. CLOTHING.) ROXFORD KNITTING COMPANY, Philadelphia, Pa. Filed Apr. 30, 1920.

ROXFORD

Particular description of goods.—Men's Knitted and Woven Underwear.
Claims use since about Oct. 15, 1907.

Ser. No. 131,981. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE OAKES COMPANY, Indianapolis, Ind. Filed May 3, 1920.

OAKES

Particular description of goods.—Fans for Automobiles.
Claims use since Apr. 12, 1920.

Ser. No. 132,006. (CLASS 39. CLOTHING.) COLLIER MFG. CO., Barnesville, Ga. Filed May 4, 1920.

Collier-Cut

In the drawing, the body of the design comprising part of the mark shows a lining for red, indicating a red coloration in the display thereof.
Particular description of goods.—Men's, Women's, and Children's Knit Underwear.
Claims use since Apr. 2, 1920.

Ser. No. 132,026. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RIDLEY'S, THE OLD CHAMBERS STREET CANDY MANUFACTORY, New York, N. Y. Filed May 4, 1920.



No claim of exclusive right to the use of the words "New York" being made by the applicant.
Particular description of goods.—Candles, Chocolates, and Bonbons.
Claims use since Apr. 15, 1919.

Ser. No. 132,112. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) K-B PULVERIZER CO., INC., New York, N. Y. Filed May 6, 1920.

K-B PULVERIZER

No claim being made to the exclusive use of the representation of the pulverizer unit and the word "Pulverizer" apart from the mark as shown in the drawing.
Particular description of goods.—Machinery for Crushing and Pulverizing Ores, Minerals, Oyster-Shells, and Other Hard or Refractory Materials, Refuse, Garbage, Foodstuffs, and Any Vegetable Substances, and Also for Parts Thereof.
Claims use since Apr. 1, 1920.

Ser. No. 132,124. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed May 6, 1920.

"TIBE-FUR"

No claim is made to the exclusive use of the word "Fur" except in connection with the mark shown.
Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, and Hats.
Claims use since Jan. 15, 1920.

Ser. No. 132,166. (CLASS 38. PRINTS AND PUBLICATIONS.) COLUMBIA GRAPHOPHONE MANUFACTURING CO., Bridgeport, Conn. Filed May 8, 1920.

Columbia
Tonearm Weekly

Particular description of goods.—Weekly Publication.
Claims use since Jan. 31, 1920.

Ser. No. 132,180. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAEGER & KUENZLER, New York, N. Y. Filed May 8, 1920.



Particular description of goods.—Mayonnaise and Salad-Dressings.
Claims use since Apr. 23, 1920.

Ser. No. 132,181. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ALVAH L. JUST, Syracuse, N. Y. Filed May 8, 1920.

NU-WAY

TRADE MARK

Applicant disclaims the use of the words "Trade-Mark" shown on the drawing.
Particular description of goods.—Dust-Caps for Pneumatic-Tire Valves.
Claims use since Apr. 1, 1920.

Ser. No. 132,219. (CLASS 39. CLOTHING.) HARRY J. AUERBACH, Philadelphia, Pa. Filed May 10, 1920.

Pilot Knit

No claim is made to the word "Knit" except as used in connection with the other portion of the mark.
Particular description of goods.—Sweaters and Cardigan Jackets.
Claims use since on or about Feb. 3, 1916.

Ser. No. 132,237. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FUNK & WAGNALLS COMPANY, New York, N. Y. Filed May 10, 1920.



Particular description of goods.—Moving-Picture Films.
Claims use since May 1, 1918.

Ser. No. 132,264. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed May 10, 1920.

AUTOCRAFT

Particular description of goods.—Dry and Ready-Mixed Paints, Paint and Varnish Driers, Paint Enamels, Wood-Stains, Varnish-Stains, Wall-Paints, Prepared Lacs, Fillers for Painters' Use, Varnishes, Floor-Waxes, Top Dressings of a Paint Nature, Gasket-Shellac, Automobile-Enamels, Baking-Enamels, and Engine-Enamels.
Claims use since May 1, 1920.

Ser. No. 132,277. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FRED P. SMITH, St. Louis, Mo. Filed May 10, 1920.

CATLIFE

Particular description of goods.—Storage Batteries.
Claims use since about Apr. 1, 1920.

Ser. No. 132,312. (CLASS 39. CLOTHING.) AARON NEWMARK, INC., New York, N. Y. Filed May 11, 1920.

LaBelle

Particular description of goods.—Women's Muslin and Silk Underwear.
Claims use since Apr. 28, 1915.

Ser. No. 132,334. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WALWORTH MANUFACTURING CO., Boston, Mass. Filed May 11, 1920.



Particular description of goods.—Plumbing-Fixtures Made of Enamel, China, or Porcelain Ware—viz., Bathtubs, Lavatories, Sinks, Water-Closets, and Laundry-Tubs.
Claims use since Jan. 1, 1919.

Ser. No. 132,345. (CLASS 30. CLOTHING.) DAVENPORT HOSIERY MILLS, Chattanooga, Tenn. Filed May 12, 1920.



Particular description of goods.—Hosiery.
Claims use since Jan. 28, 1920.

Ser. No. 132,353. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. HOLLINSHED CO., INC., New York, N. Y. Filed May 12, 1920.



All reading-matter with the exception of the word "Mary" is hereby disclaimed.
Particular description of goods.—Choice Winter Yellow Cotton-Seed Oil.
Claims use since Jan. 1, 1919.

Ser. No. 132,354. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. HOLLINSHED CO., INC., New York, N. Y. Filed May 12, 1920.



All reading-matter with the exception of the word "Carlo" is hereby disclaimed.
Particular description of goods.—Choice Winter Yellow Cotton-Seed Oil.
Claims use since Jan. 1, 1919.

Ser. No. 132,355. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. HOLLINSHED CO., INC., New York, N. Y. Filed May 12, 1920.



All reading-matter with the exception of the word "Maisetta" is hereby disclaimed.
Particular description of goods.—Choice Refined Corn-Oil.
Claims use since Jan. 1, 1919.

Ser. No. 132,356. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. HOLLINSHED CO., INC., New York, N. Y. Filed May 12, 1920.



All reading-matter with the exception of the word "4711" is hereby disclaimed.
Particular description of goods.—Prime Summer Yellow Cotton-Seed Oil.
Claims use since Jan. 1, 1919.

Ser. No. 132,369. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SKINNER CHUCK COMPANY, New Britain, Conn. Filed May 12, 1920.



Particular description of goods.—Chucks of All Kinds.
Claims use since Mar. 15, 1920.

Ser. No. 132,433. (CLASS 39. CLOTHING.) THE FUTURIST COMPANY, Chicago, Ill. Filed May 14, 1920.

FUTURIST

Particular description of goods.—Men's, Women's, and Children's Gloves of Fabric and Leather.
Claims use since Apr. 16, 1920.

Ser. No. 132,470. (CLASS 39. CLOTHING.) LOUIS S. HUBNER, Baltimore, Md. Filed May 15, 1920.

Kallotheneion

Particular description of goods.—Ladies' and Misses' Gowns, Dresses, Suits, and Lingerie.
Claims use since Jan. 29, 1917.

Ser. No. 132,486. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE CHAS. R. SARGENT COMPANY, Cleveland, Ohio. Filed May 15, 1920.

SarCol

Particular description of goods.—Substitutes for Turpentine.
Claims use since Mar. 10, 1920.

Ser. No. 132,493. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. E. TILLOTSON MANUFACTURING COMPANY, Pittsfield, Mass. Filed May 15, 1920. Under ten-year proviso.

OSCEOLA

The lines appearing on the drawing represent shading.
Particular description of goods.—Cloth of All Wool and All Cotton and a Mixture of Wool and Cotton in the Piece.
Claims use since Jan. 1, 1895.

Ser. No. 132,569. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE T. L. SMITH COMPANY, Chicago, Ill. Filed May 17, 1920.



Particular description of goods.—Contractors' Tilting and Non-Tilting Mixers, Glass and Fertilizer Mixers, Excavators and Loaders, Gasolene-Driven Pumps, Gasolene-Driven Hoists.
Claims use since early in the year 1919.

Ser. No. 132,571. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) E. E. THOMAS OPTICAL CO., Milwaukee, Wis. Filed May 17, 1920.

FuVid

Particular description of goods.—Optical Lenses.
Claims use since Apr. 9, 1920.

Ser. No. 132,665. (CLASS 20. LINOLEUM AND OILED CLOTH.) THE STANDARD TEXTILE PRODUCTS COMPANY, Youngstown, Ohio, and New York, N. Y. Filed May 19, 1920.

SANITAS STANDARD ST TEXTILE PRODUCTS CO. BRAND

Particular description of goods.—Cloth Coated, Impregnated, Processed, or Treated with Oil or Oils, Paint, Pigments, Varnish, or the Like or Combinations Thereof Having Pliable and Impermeable Qualities and Adapted for Use as a Decorative and Utility Material for Wall-Coverings and Any other Suitable Purpose, Either as a Finished Product or as a Foundation upon Which Decorative Effects May be Applied, as by Painting, Stenciling, Embossing, or the Like.

Claims use since May 1, 1903, as regards the word "Sanitas" and since the 17th day of April, 1920, as regards the composite mark.

Ser. No. 132,677. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AMERICAN ELECTRIC CO., Chicago, Ill. Filed May 20, 1920.

SAMSON-TIGER

Particular description of goods.—Mechanically-Operated Signal-Horns.

Claims use since Sept. 1, 1915.

Ser. No. 132,678. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AMERICAN ELECTRIC CO., Chicago, Ill. Filed May 20, 1920.

Samson Lion

Particular description of goods.—Mechanically-Operated Signal-Horns.

Claims use since May 1, 1915.

Ser. No. 132,684. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GEORGE W. CONARD, Philadelphia, Pa. Filed May 20, 1920.

GLEECO "QUICK AS LIGHTNING"

I hereby disclaim registration of the words "Quick as Lightning."

Particular description of goods.—Preparation for Cleaning and Polishing Metal, Glass, Porcelain, and Enamel.

Claims use since Feb. 13, 1917.

Ser. No. 132,696. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) C. E. JOHNSON & Co., Chicago, Ill. Filed May 20, 1920.

WHITE BEAUTY

Particular description of goods.—Shoe-Polish.

Claims use since January, 1898.

Ser. No. 132,697. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) C. E. JOHNSON & Co., Chicago, Ill. Filed May 20, 1920.

AMERICAN BEAUTY

Particular description of goods.—Shoe-Polish.

Claims use since January, 1898.

Ser. No. 132,698. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) C. E. JOHNSON & Co., Chicago, Ill. Filed May 20, 1920.



Particular description of goods.—Shoe-Polish.

Claims use since January, 1898.

Ser. No. 132,705. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) F. O. PIERCE COMPANY, New York, N. Y. Filed May 20, 1920.

Glazetile

Particular description of goods.—Glazing Compound.

Claims use since December, 1912.

Ser. No. 132,715. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHAS. W. YOUNG & Co., Philadelphia, Pa. Filed May 20, 1920.

SOAKIT

Particular description of goods.—Soap in Liquid, Powdered, Flaked, or Solid Form.

Claims use since May 12, 1920.

Ser. No. 132,730. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANNON VALLEY MILLING COMPANY, Minneapolis, Minn. Filed May 21, 1920.

ALLGOLD

Particular description of goods.—Wheat-Flour.

Claims use since 1906.

Ser. No. 132,773. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILTON MELVILLE BERNE, San Francisco, Calif. Filed May 22, 1920.

DELAGUA

Particular description of goods.—Canned Fish.

Claims use since Mar. 19, 1920.

Ser. No. 132,787. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JEWETT & FITZGERALD, North Andover, Mass. Filed May 22, 1920.

RELIANCE

Particular description of goods.—Stop-Motions for Worsted-Combs.

Claims use since Feb. 1, 1920.

Ser. No. 132,788. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE A. C. GILBERT COMPANY, New Haven, Conn. Filed May 22, 1920.

GILBERT

Particular description of goods.—Electric Motors, Electric Generators, Telephone Sets, Telegraph Sets, Wireless Sets, Electric Transformers, Electric Batteries, Induction-Coils, Electric Switches, Rheostats, Electric Lamps, and Electric Fans.

Claims use since in or about July, 1913.

Ser. No. 132,862. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HARRINGTON & KING PERFORATING CO., Chicago, Ill. Filed May 24, 1920.

CARBO

Particular description of goods.—Rice-Huller Screens.

Claims use since Jan. 1, 1919.

Ser. No. 132,884. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed May 24, 1920.

ARIO

Particular description of goods.—Lubricating-Grease.

Claims use since on or about Oct. 1, 1919.

Ser. No. 132,944. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LOUIS E. SEDDON, Croton-on-Hudson, N. Y. Filed May 25, 1920.

LUG-ALL

Particular description of goods.—Adjustable Cleats.

Claims use since May 19, 1920.

Ser. No. 132,992. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed May 26, 1920.

BOKAR

Particular description of goods.—Coffee.

Claims use since about Mar. 15, 1920.

Ser. No. 132,998. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JULIE H. RIEGLER, San Antonio, Tex. Filed May 26, 1920.



Particular description of goods.—Candy.

Claims use since about Dec. 1, 1919.

Ser. No. 132,999. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JULIE H. RIEGLER, San Antonio, Tex. Filed May 26, 1920.

Bluebonnet

Particular description of goods.—Candy.

Claims use since about Dec. 1, 1919.

Ser. No. 133,021. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) QUIGLEY FURNACE SPECIALTIES CO., INCORPORATED, New York, N. Y. Filed May 27, 1920.



No claim being made to the word "Steel."
Particular description of goods.—Steel.
Claims use since Mar. 10, 1920.

Ser. No. 133,040. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BRADAS & GHEENS, Louisville, Ky. Filed May 28, 1920.

Nightingale

Particular description of goods.—Chocolates.
Claims use since June, 1890.

Ser. No. 133,041. (CLASS 38. PRINTS AND PUBLICATIONS.) CHARLES SWASEY BARNET, Saranac Lake, N. Y. Filed May 28, 1920.

Trotty Veck



Particular description of goods.—Booklets Published from Time to Time.
Claims use since Jan. 14, 1916.

Ser. No. 133,145. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARTMANN PACIFIC COMPANY, INC., New York, N. Y. Filed June 1, 1920.

HARTMANN'S
Priscilla

Particular description of goods.—Hair-Nets.
Claims use since Mar. 30, 1920.

Ser. No. 133,167. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICO MILK PRODUCTS COMPANY, East Troy, Wis. Filed June 1, 1920.



Particular description of goods.—Condensed Milk, Evaporated Milk, and Evaporated Cream.
Claims use since Oct. 1, 1918.

Ser. No. 133,251. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONTINENTAL CANDY CORPORATION, Chicago, Ill. Filed June 4, 1920.

FEASTO

Particular description of goods.—Candy.
Claims use since Dec. 1, 1919.

Ser. No. 133,273. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) JOPPA MACHINE & BRONZE CO., Philadelphia, Pa. Filed June 4, 1920.

Auto-Bronze

Particular description of goods.—Metals for Machine Bearings and Bushings.
Claims use since Dec. 1, 1918.

Ser. No. 133,341. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 5, 1920.



The circular band and cross-bar forming part of the trade-mark as shown on the drawing are red, and the segments above and below the cross-bar and within the circular band are blue. No claim is made to the words "Far-Famed," "Bread and Cakes," and "100% Pure" apart from the mark shown on the drawing.
Particular description of goods.—Bread and Cakes.
Claims use since May 20, 1920.

Ser. No. 133,410. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) J. F. FELLWOCK CO., Evansville, Ind. Filed June 8, 1920.

Meritone

Particular description of goods.—Phonographs.
Claims use since May 11, 1920.

Ser. No. 133,424. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LEVINSON TEXTILE CO., INC., New York, N. Y. Filed June 8, 1920.



No claim being made to the exclusive use of the words "Lustre" and "Durability" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since April, 1916.

Ser. No. 133,447. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROKER PACKING CO., San Francisco, Calif. Filed June 9, 1920.

WESTWARD HO

Particular description of goods.—Canned Fruits, Canned Vegetables, and Fruit Preserves.
Claims use since Dec. 1, 1919.

Ser. No. 133,460. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) EMERSON PIANO COMPANY, Boston, Mass. Filed June 9, 1920. Under ten-year proviso.

Emerson.
BOSTON.
U.S.A.

No claim being made for the words "Boston, U. S. A." shown in the drawing and facsimile.
Particular description of gobds.—Pianos.
Claims use since June 9, 1893.

Ser. No. 133,464. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRIGGS, COOPER & CO., St. Paul, Minn. Filed June 9, 1920.

BLUE FLAME



Particular description of goods.—Coffee.
Claims use since 1900.

Ser. No. 133,473. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN AND PRETZFELD, INC., New York, N. Y. Filed June 9, 1920.

AL-LA-DIN SILK

The right to the exclusive use of the word "Silk" is disclaimed apart from the mark as shown.
Particular description of goods.—Dress-Silks in the Piece.
Claims use since Apr. 20, 1920.

Ser. No. 133,476. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. KRASNOW & SONS, INC., Brawley, Calif. Filed June 9, 1920.



Particular description of goods.—Fresh Fruits—Namely, Cantaloups.
Claims use since Jan. 15, 1920.

Ser. No. 133,491. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POWELL PRESERVING CO., Downey, Calif. Filed June 9, 1920.



No claim is made to the words "Made Pure" apart from the mark shown in the drawing.
Particular description of goods.—Preserved and Pickled Fruits.
Claims use since Mar. 26, 1920.

Ser. No. 133,502. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SANITARY FOOD MANUFACTURING CO., St. Paul, Minn. Filed June 9, 1920.



Particular description of goods.—Candy.
Claims use since May 1, 1920.

Ser. No. 133,572. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE "DYNAMO" TULLE IMPORTING COMPANY, New York, N. Y. Filed June 11, 1920.

DYNAMO

Particular description of goods.—Tulles, Muslins, Crapes, Silks, Vellings, and Nettings, All of Said Goods Being Piece Goods and Veils.
Claims use since Aug. 10, 1908.

Ser. No. 133,588. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NASHUA MANUFG. COMPANY, Nashua, N. H. Filed June 11, 1920.

SPORTSMAN

Consisting of the word "Sportsman."
Particular description of goods.—Cotton Piece Goods—Namely, Cotton Suitings.
Claims use since May 13, 1920.

Ser. No. 133,716. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SWIFT AND COMPANY, Chicago, Ill. Filed June 14, 1920.



Particular description of goods.—Soap.
Claims use since Jan. 10, 1920.

Ser. No. 133,722. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN ASPEGREN, New York, N. Y. Filed June 15, 1920.

JUPITER

Consisting of the word "Jupiter."
Particular description of goods.—Cotton-Seed Oil.
Claims use since September, 1913.

Ser. No. 133,723. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN ASPEGREN, New York, N. Y. Filed June 15, 1920.

MINERVA

Consisting of the word "Minerva."
Particular description of goods.—Cotton-Seed Oil.
Claims use since September, 1913.

Ser. No. 133,724. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BABY BLUE FOOD PRODUCTS CO., INC., Rochester, N. Y. Filed June 15, 1920.

BABY BLUE

Particular description of goods.—Mayonnaise Dressing Containing Eggs, Vegetable Oil, Salt, Vinegar, Sugar, Pepper, and Mustard, Used as a Food Product.
Claims use since Dec. 10, 1919.

Ser. No. 133,735. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HASKINS BROS. & COMPANY, Sioux City, Iowa. Filed June 15, 1920.

HASKINS'
PUMICUTA

Particular description of goods.—Soap.
Claims use since June, 1912.

Ser. No. 133,753. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SHEAR COMPANY, Waco, Tex. Filed June 15, 1920.

RALEIGH HOTEL



Particular description of goods.—Coffee.
Claims use since December, 1919.

Ser. No. 133,778. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. HOLLINSHED CO., INC., New York, N. Y. Filed June 16, 1920.



All reading-matter with the exception of the word "Holly" is hereby disclaimed.
Particular description of goods—Choice Winter Yellow Cotton-Seed Oil.
Claims use since Apr. 1, 1920.

Ser. No. 133,848. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OIL PRODUCTS COMPANY, Cardington, Pa. Filed June 17, 1920.

TRUFILM

Particular description of goods.—Paint-Oils.
Claims use since Apr. 23, 1920.

Ser. No. 133,849. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ROBINOLA PHONOGRAPH CO., St. Louis, Mo. Filed June 17, 1920.

ROBINOLA

Particular description of goods.—Phonographs.
Claims use since Jan. 1, 1920.

Ser. No. 133,866. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BAUER CHEMICAL CO. INC., New Orleans, La. Filed June 18, 1920.

Clenzall

Particular description of goods.—A Cleaning and Polishing Compound for Metal, Glass, Porcelain, and Marble.
Claims use since May 15, 1920.

Ser. No. 133,875. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FOSTER ENGINEERING CO., Newark, N. J. Filed June 18, 1920. Under ten-year proviso.

FOSTER

Particular description of goods.—Back-Pressure Valves, Boiler-Feed-Water Regulators, Combination Emergency and Non-Return Stop-Valves, Pressure-Regulators, Fan-Engine Regulators, Float-Valves, Free Exhaust-Valves, Lever-Balanced or Chronometer Valves, Non-Return Stop-Valves, Pilot-Valves, Pump-Governors, Relief-Valves, and Strainers.
Claims use since 1890.

Ser. No. 133,904. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE WILDER-PIKE THERMOMETER COMPANY, INC., Troy, N. Y. Filed June 18, 1920.

WILDER

Particular description of goods.—Thermometers.
Claims use since about May 1, 1916.

Ser. No. 133,918. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FEDERAL ELECTRIC COMPANY, Chicago, Ill. Filed June 19, 1920.



Particular description of goods.—Phonographs.
Claims use since Aug. 7, 1919.

Ser. No. 134,035. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SERV-US GROCERY PRODUCTS CORPORATION, New York, N. Y. Filed June 22, 1920.

Serv-us

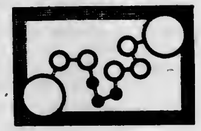
Particular description of goods.—Washing-Powders and Laundry, Scouring, and Toilet Soaps.
Claims use since July, 1910.

Ser. No. 134,122. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GENERAL EXPORT TRADING CO., Boston, Mass. Filed June 24, 1920.

PRINCE

The word "Prince."
Particular description of goods.—Shoe-Blacking.
Claims use since Mar. 17, 1920.

Ser. No. 134,140. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TAICHI NAKAYAMA, Osaka, Japan. Filed June 24, 1920.



Particular description of goods.—Soap and Washing-Powder.
Claims use since October, 1916.

TRADE-MARK REGISTRATIONS GRANTED

JULY 27, 1920.

133,348. WEEKLY PUBLICATION. ALDRICH PUBLISHING COMPANY, New York, N. Y.
Filed December 13, 1919. Serial No. 125,924. PUBLISHED MARCH 23, 1920.

133,349. SMOKING AND CHEWING TOBACCO AND CIGARETTES. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed November 10, 1919. Serial No. 124,708. PUBLISHED JANUARY 27, 1920.

133,350. TANNED LEATHER HIDES FOR SHOE-UPPERS. ANCHOR LEATHER CO., Chicago, Ill.
Filed November 30, 1917. Serial No. 107,671. PUBLISHED MARCH 11, 1919.

133,351. STEEL WATER-TOWERS. JULIAN ARMSTRONG, Chicago, Ill.
Filed December 15, 1919. Serial No. 125,999. PUBLISHED MARCH 30, 1920.

133,352. STEEL OFFICE EQUIPMENT AND FURNITURE. THE BERGER MANUFACTURING COMPANY, Canton, Ohio.
Filed August 27, 1917. Serial No. 105,887. PUBLISHED MARCH 25, 1919.

133,353. COATS FOR YOUNG BOYS AND GIRLS. MAX BERKWITS, New York, N. Y.
Filed December 17, 1919. Serial No. 126,163. PUBLISHED APRIL 13, 1920.

133,354. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND OTHER TEXTILE FABRICS. BIANCHINI, FÉRIER, Lyon, France.
Filed October 16, 1919. Serial No. 123,845. PUBLISHED APRIL 6, 1920.

133,355. TALKING-MACHINE-RECORD BRUSHES. BLACKMAN TALKING MACHINE CO., INC., New York, N. Y.
Filed December 13, 1919. Serial No. 125,939. PUBLISHED MARCH 2, 1920.

133,356. HAIR-NETS. THE BLOCH CHEMICAL COMPANY, INC., New York, N. Y.
Filed February 7, 1920. Serial No. 128,073. PUBLISHED MAY 4, 1920.

133,357. LACES AND EMBROIDERIES IN THE PIECE. BLANCK & CO., INC., New York, N. Y.
Filed April 14, 1919. Serial No. 117,432. PUBLISHED MAY 4, 1920.

133,358. DRY, PASTE, AND READY-MIXED PAINTS. BLOCK & KUHL COMPANY, Peoria, Ill.
Filed January 9, 1918. Serial No. 108,372. PUBLISHED APRIL 13, 1920.

133,359. PORTRAIT-PHOTOGRAPHS. EDUARD BLUM, Chicago, Ill.
Filed October 24, 1919. Serial No. 124,132. PUBLISHED JANUARY 13, 1920.

133,360. NEWSPAPER. REV. LUCYAN BOJNOWSKI, New Britain, Conn.
Filed December 26, 1919. Serial No. 126,445. PUBLISHED MARCH 23, 1920.

133,361. CONFECTIONERY. BORDEN'S CONDENSED MILK COMPANY, (now by change of name The Borden Company, a Corporation of New Jersey,) New York, N. Y.
Filed June 2, 1919. Serial No. 119,111. PUBLISHED DECEMBER 2, 1919.

133,362. CLEANSER USED FOR ALL HOUSEHOLD CLEANING PURPOSES. PATRICK F. BROPHY, Norwalk, Conn.
Filed June 25, 1919. Serial No. 119,933. PUBLISHED MARCH 23, 1920.

133,363. MONTHLY PUBLICATION DISTRIBUTED FOR ADVERTISING PURPOSES. FRED W. BROWN, Columbus, Ohio.
Filed October 22, 1919. Serial No. 124,067. PUBLISHED JANUARY 6, 1920.

133,364. MONTHLY PUBLICATION DISTRIBUTED FOR ADVERTISING PURPOSES. FRED W. BROWN, Columbus, Ohio.
Filed September 5, 1919. Serial No. 122,330. PUBLISHED JANUARY 6, 1920.

133,365. MONTHLY MAGAZINE. MAXWELL K. BURCKETT, Newark, N. J.
Filed September 22, 1919. Serial No. 122,960. PUBLISHED APRIL 13, 1920.

133,366. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES AND SYRUPS AND COLORS AND FLAVORS IN PREPARATION THEREOF. BURTON BROTHERS, Chicago, Ill.
Filed August 14, 1919. Serial No. 121,654. PUBLISHED APRIL 6, 1920.

133,367. TOY MOLDS AND MOLDING-WAX FOR SAME. LEON E. BUTLER, Chicago, Ill.
Filed July 12, 1919. Serial No. 120,475. PUBLISHED MARCH 30, 1920.

133,368. WEEKLY PERIODICAL OR MAGAZINE. THE BUTTERICK PUBLISHING COMPANY, New York, N. Y.
Filed September 19, 1919. Serial No. 122,880. PUBLISHED APRIL 20, 1920.

133,369. MEDICINAL PREPARATIONS TO BE USED IN THE TREATMENT OF CERTAIN NAMED AILMENTS. THE CALCO CHEMICAL COMPANY, Boundbrook, N. J.
Filed December 26, 1919. Serial No. 126,452. PUBLISHED APRIL 20, 1920.

133,370. CIGARS, CIGARETTES, AND SMOKING AND CHEWING TOBACCO. P. CANNIZZARO & CO. INC., New York, N. Y.
Filed October 30, 1919. Serial No. 124,333. PUBLISHED MARCH 9, 1920.

133,371. TABLE-SYRUP. J. RALSTON CARGILL, Americus, Ga.
Filed January 9, 1920. Serial No. 126,954. PUBLISHED MARCH 30, 1920.

133,372. MEDICINAL TABLET FOR THE TREATMENT OF MALARIA. G. W. CARNRICK CO., New York, N. Y.
Filed December 26, 1919. Serial No. 126,450. PUBLISHED APRIL 20, 1920.

133,373. PISTON-RINGS. ALBERT B. CHANCE, Centralia, Mo.
Filed August 9, 1919. Serial No. 121,445. PUBLISHED FEBRUARY 10, 1920.

133,374. BAKING-POWDER. CHAPMAN & SMITH COMPANY, Chicago, Ill.
Filed December 3, 1919. Serial No. 125,530. PUBLISHED APRIL 20, 1920.

133,375. [WITHDRAWN.]

133,376. [WITHDRAWN.]

133,377. [WITHDRAWN.]

133,378. [WITHDRAWN.]

133,379. [WITHDRAWN.]

133,380. [WITHDRAWN.]

133,381. [WITHDRAWN.]

133,382. [WITHDRAWN.]

133,383. CIGARETTES. JOHN CHRISTOFORIDES, London, England.
Filed October 7, 1919. Serial No. 123,513. PUBLISHED FEBRUARY 3, 1920.

133,384. CERTAIN NAMED ADVERTISING APPARATUS. W. L. CLARK COMPANY, INC., New York, N. Y.
Filed October 13, 1919. Serial No. 123,730. PUBLISHED MARCH 30, 1920.

133,385. MONTHLY PERIODICAL MAGAZINES. CLASS JOURNAL CORPORATION, Seattle, Wash.
Filed August 12, 1919. Serial No. 121,564. PUBLISHED JANUARY 6, 1920.

133,386. MONTHLY PERIODICAL MAGAZINES. CLASS JOURNAL CORPORATION, Seattle, Wash.
Filed August 12, 1919. Serial No. 121,565. PUBLISHED JANUARY 6, 1920.

133,387. WASHING COMPOUND. ALFRED E. CLEVELAND, Cambridge, Mass.
Filed January 13, 1920. Serial No. 127,082. PUBLISHED APRIL 20, 1920.

133,388. CERTAIN NAMED TEXTILES IN THE PIECE. C. A. COLMAN COMPANY, New York, N. Y.
Filed September 22, 1919. Serial No. 122,973. PUBLISHED APRIL 6, 1920.

133,389. GAMES PLAYED WITH CARDS. WALTER M. COLEMAN, Baltimore, Md.
Filed November 17, 1919. Serial No. 124,971. PUBLISHED MARCH 30, 1920.

133,390. FLAT WALL OIL-PAINTS, WOOD-STAINS, ENAMEL PAINTS, AND READY-MIXED PAINTS. COLONIAL WORKS, Brooklyn, N. Y.
Filed August 23, 1919. Serial No. 121,923. PUBLISHED FEBRUARY 10, 1920.

133,391. MAGAZINES ISSUED MONTHLY. COMMERCE PUBLICATIONS COMPANY INC., New York, N. Y.
Filed August 9, 1919. Serial No. 121,457. PUBLISHED JANUARY 6, 1920.

133,392. CARPETS AND RUGS FORMED OF RAGS, COTTON, OR MIXTURES OF THE SAME. THE CORAL MANUFACTURING COMPANY, Norristown, Pa.
Filed September 13, 1919. Serial No. 122,626. PUBLISHED APRIL 27, 1920.

133,393. CARPETS AND RUGS FORMED OF RAGS, COTTON, OR MIXTURES OF THE SAME. THE CORAL MANUFACTURING COMPANY, Norristown, Pa.
Filed September 13, 1919. Serial No. 122,628. PUBLISHED APRIL 27, 1920.

133,394. CARPETS AND RUGS FORMED OF RAGS, COTTON, OR MIXTURES OF THE SAME. THE CORAL MANUFACTURING COMPANY, Norristown, Pa.
Filed September 13, 1919. Serial No. 122,629. PUBLISHED APRIL 27, 1920.

133,395. ROLLED OATS. THE CORNO MILLS COMPANY, St. Louis, Mo.
Filed November 7, 1919. Serial No. 124,641. PUBLISHED APRIL 20, 1920.

133,396. BLOOD-REMEDY COMPOUND, VEGETABLE AND MINERAL. ROBERT A. COURTNEY, Baltimore, Md.
Filed November 24, 1919. Serial No. 125,221. PUBLISHED APRIL 20, 1920.

133,397. CERTAIN NAMED OFFICE FURNITURE. CUTLER DESK CO., Buffalo, N. Y.
Filed May 23, 1919. Serial No. 118,829. PUBLISHED APRIL 13, 1920.

133,398. POCKETS FOR GARMENTS. JAMES C. DARST, Portsmouth, Va.
Filed January 21, 1920. Serial No. 127,425. PUBLISHED APRIL 13, 1920.

133,399. CIGARS, CIGARETTES, AND CHEWING AND SMOKING TOBACCO. F. A. DE PILIS, Mattoax, Va.
Filed September 27, 1919. Serial No. 123,204. PUBLISHED APRIL 13, 1920.

133,400. CERTAIN NAMED CONVERTIBLE FURNITURE. THOMAS B. DRAPER, Oakland, Calif.
Filed October 24, 1918. Serial No. 113,872. PUBLISHED FEBRUARY 3, 1920.

133,401. CERTAIN NAMED SOIL-TILLING MACHINES. THE DUNHAM COMPANY, Berea, Ohio.
Filed August 26, 1918. Serial No. 112,871. PUBLISHED MARCH 2, 1920.

133,402. EARTH-WORKING IMPLEMENTS—NAMELY, CORRUGATED ROLLERS AND SOIL-PULVERIZERS. THE DUNHAM COMPANY, Berea, Ohio.
Filed October 17, 1919. Serial No. 123,888. PUBLISHED MARCH 30, 1920.

133,403. PAMPHLETS AND BOOKLETS, WHICH PAMPHLETS OR BOOKLETS ARE TO BE ISSUED QUARTERLY. EDISON STORAGE BATTERY COMPANY, West Orange, N. J.
Filed November 28, 1919. Serial No. 125,378. PUBLISHED MARCH 23, 1920.

133,404. ELECTRIC LIGHT AND POWER PLANTS, EQUIPMENT THEREFOR, AND PARTS THEREOF. ELECTRIC AUTO-LITE CORPORATION, Toledo, Ohio.
Filed November 6, 1919. Serial No. 124,598. PUBLISHED MARCH 23, 1920.

133,405. LACES AND EMBROIDERIES IN THE PIECE. ELY & WALKER D. G. CO., St. Louis, Mo.
Filed September 27, 1918. Serial No. 113,445. PUBLISHED APRIL 13, 1920.

133,406. WEEKLY PUBLICATION. EMBROIDERERS' PUBLISHING CORPORATION, New York, N. Y.
Filed December 2, 1919. Serial No. 125,496. PUBLISHED MARCH 23, 1920.

133,407. SILK PIECE GOODS. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y.
Filed February 25, 1920. Serial No. 128,885. PUBLISHED MAY 4, 1920.

133,408. ELASTIC WEBS. FAIRE BROS. & CO. LIMITED, Leicester, England.
Filed April 21, 1919. Serial No. 117,658. PUBLISHED APRIL 27, 1920.

133,409. NON-INTOXICATING CEREAL MALT BEVERAGE. FAIRMONT BEVERAGE CO., Cincinnati, Ohio.
Filed July 19, 1919. Serial No. 120,700. PUBLISHED APRIL 6, 1920.

133,410. SEMIMONTHLY PUBLICATION. FAIRCHILD COMPANY, Chicago, Ill.
Filed August 26, 1919. Serial No. 122,011. PUBLISHED JANUARY 6, 1920.

133,411. ELASTIC WEBS. FAIRE BROS. & CO. LIMITED, Leicester, England.
Filed April 21, 1919. Serial No. 117,654. PUBLISHED APRIL 13, 1920.

133,412. GRANULATED CANE-SUGAR. FEDERAL SUGAR REFINING COMPANY, Yonkers and New York, N. Y.
Filed November 7, 1919. Serial No. 124,645. PUBLISHED MARCH 2, 1920.

133,413. CIGARS. WILLIAM J. FISHER & CO., Boston, Mass.
Filed October 30, 1919. Serial No. 124,340. PUBLISHED JANUARY 27, 1920.

133,414. MACARONI, SPAGHETTI, AND NOODLES. THE FOULDS-BRIGOS CO., Cincinnati, Ohio.
Filed February 20, 1918. Serial No. 109,127. PUBLISHED OCTOBER 14, 1919.

133,415. CIGARETTES. FRISHMUTH BRO. & COMPANY, INCORPORATED, Philadelphia, Pa.
Filed February 26, 1919. Serial No. 116,155. PUBLISHED APRIL 13, 1920.

133,416. CERTAIN NAMED AUTOMOBILE AND MOTOR-CYCLE ACCESSORIES. GEMCO MANUFACTURING COMPANY, Milwaukee, Wis.
Filed October 15, 1918. Serial No. 113,744. PUBLISHED MARCH 30, 1920.

133,417. TITLE FOR SUNDAY NEWSPAPER PICTORIAL SECTION. GLOBE PRINTING COMPANY, St. Louis, Mo.
Filed August 11, 1919. Serial No. 121,526. PUBLISHED DECEMBER 30, 1919.

133,418. CHOCOLATE CANDIES. THE GORTON CHOCOLATE CO., INC., Corning, N. Y.
Filed October 30, 1918. Serial No. 113,942. PUBLISHED MARCH 2, 1920.

133,419. PRINTED BOOKS, BOOKLETS, CIRCULARS, PAMPHLETS, AND PERIODICALS ISSUED FROM TIME TO TIME. CHARLES F. HAANEL, St. Louis, Mo.
Filed September 29, 1919. Serial No. 123,246. PUBLISHED APRIL 6, 1920.

133,420. CIGARETTES. HALLE-PERRIS TRADING CORPORATION, New York, N. Y.
Filed September 23, 1919. Serial No. 123,025. PUBLISHED APRIL 13, 1920.

133,421. CIGARETTES. HALLE-PERRIS TRADING CORPORATION, New York, N. Y.
Filed September 23, 1919. Serial No. 123,026. PUBLISHED APRIL 6, 1920.

133,422. CERTAIN NAMED GARMENTS FOR MEN, WOMEN, AND CHILDREN. HAND KNIT HOSIERY CO., Sheboygan, Wis.
Filed August 25, 1919. Serial No. 121,976. PUBLISHED APRIL 13, 1920.

133,423. MACHINE-GUNS, BOMB-DROPPING APPLIANCES, BOMBS, MACHINE-GUN AMMUNITION, GUNS AND ORDNANCE, ANTI-AIRCRAFT GUNS. HANDLEY PAGE LIMITED, London, England.
Filed June 25, 1919. Serial No. 119,944. PUBLISHED MARCH 2, 1920.

133,424. GOLF-BALLS. HARRY C. LEE & COMPANY, INC., New York, N. Y.
Filed November 18, 1919. Serial No. 125,057. PUBLISHED APRIL 20, 1920.

133,425. POWDERED GRAPHITE. EARL F. HARTZELL, Pittsburgh, Pa.
Filed October 15, 1919. Serial No. 123,808. PUBLISHED MARCH 30, 1920.

133,426. STOVEPIPE AND STOVEPIPE-ELBOWS. HEMP & CO. (Corp.), St. Louis, Mo.
Filed December 17, 1919. Serial Nos. 126,181. PUBLISHED MARCH 30, 1920.

133,427. SILK GOODS IN THE PIECE. HENRI GUTMANN SILKS CORPORATION, New York, N. Y.
Filed February 28, 1920, Serial No. 129,011. PUBLISHED MAY 4, 1920.

133,428. WORSTED AND WOOLEN TEXTILE FABRICS IN THE PIECE. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed February 17, 1920. Serial No. 128,504. PUBLISHED MAY 4, 1920.

133,429. MIDDY-BLOUSES AND ENVELOP-CHEMISE. HIGGINBOTHAM-BAILEY-LOGAN COMPANY, Dallas, Tex., and New York, N. Y.
Filed June 28, 1918. Serial No. 111,869. PUBLISHED APRIL 13, 1920.

133,430. GLASS GLOBES AND REFLECTORS FOR ARTIFICIAL LIGHT. HOLOPHANE GLASS COMPANY, INC., New York, N. Y.
Filed January 31, 1918. Serial No. 108,712. PUBLISHED APRIL 13, 1920.

133,431. NON-ALCOHOLIC WINES AND CHAMPAGNES. WM. H. HOMMEL, Sandusky, Ohio.
Filed August 2, 1919. Serial No. 121,203. PUBLISHED MARCH 30, 1920.

133,432. WEBBING IN THE PIECE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 3, 1919. Serial No. 117,140. PUBLISHED APRIL 6, 1920.

133,433. CHILDREN'S, MISSES', AND GROWING-GIRLS' LEATHER SHOES AND SLIPPERS. HOWARD-HULME-DITTRICH SHOE CO., Carthage, Mo.
Filed December 16, 1919. Serial No. 126,123. PUBLISHED APRIL 6, 1920.

133,434. PHOTOGRAPHIC PRINTS. HOWLAND AND DEWEY COMPANY, Los Angeles, Calif.
Filed June 7, 1919. Serial No. 119,303. PUBLISHED MARCH 2, 1920.

133,435. WOMEN'S OUTER GARMENTS, EXCEPT HATS. HENRY HUNVALD, New York, N. Y.
Filed September 7, 1918. Serial No. 113,059. PUBLISHED APRIL 13, 1920.

133,436. SWEATERS, SHAWLS, SCARFS, HOODS, AND CAPS. IMPERIAL KNITTING CO., Milwaukee, Wis.
Filed December 1, 1919. Serial No. 125,464. PUBLISHED APRIL 6, 1920.

133,437. SERIES OR SUCCESSION OF COMIC DRAWINGS OR PICTURES. INTERNATIONAL FEATURE SERVICE, INC., New York, N. Y.
Filed September 2, 1919. Serial No. 122,214. PUBLISHED JANUARY 6, 1920.

133,438. SERIES OF COMIC DRAWINGS OR PICTURES. INTERNATIONAL FEATURE SERVICE, INC., New York, N. Y.
Filed September 2, 1919. Serial No. 122,216. PUBLISHED JANUARY 6, 1920.

133,439. HANDKERCHIEFS. THE INTERNATIONAL HANDKERCHIEF MFG. CO., New York, N. Y.
Filed February 16, 1920. Serial No. 128,440. PUBLISHED MAY 4, 1920.

133,440. NON-ALCOHOLIC, NON-INTOXICATING, NON-CEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. JACK GEORGE METROPOL, Manning, S. C.
Filed October 10, 1919. Serial No. 123,652. PUBLISHED APRIL 6, 1920.

133,441. MEDICINE FOR CONSTIPATION. ELLIOTT JACOBS, New Orleans, La.
Filed November 29, 1919. Serial No. 125,425. PUBLISHED APRIL 20, 1920.

133,442. CERTAIN NAMED CLOTH PIECE GOODS. JOHNSTON DRY GOODS CO., Birmingham, Ala.
Filed November 6, 1919. Serial No. 124,608. PUBLISHED APRIL 6, 1920.

133,443. RAINCOATS. KAHN TAILORING COMPANY, Indianapolis, Ind.
Filed May 16, 1918. Serial No. 110,926. PUBLISHED APRIL 13, 1920.

133,444. PREPARATION USED INTERNALLY IN CASES OF CHRONIC CONSTIPATION, MUCOUS COLITIS, ENTEROPTOSIS, AND INTESTINAL STASIS. JULIUS KALISH INC., New York, N. Y.
Filed November 28, 1919. Serial No. 125,386. PUBLISHED APRIL 20, 1920.

133,445. COTTON PIECE GOODS. KELSEY TEXTILE CORPORATION, New York, N. Y.
Filed January 21, 1920. Serial No. 127,430. PUBLISHED APRIL 27, 1920.

133,446. CERTAIN NAMED PAPER AND STATIONERY. KNOWLTON BROS. INC., Watertown, N. Y.
Filed February 11, 1919. Serial No. 115,766. PUBLISHED NOVEMBER 4, 1919.

133,447. CERTAIN NAMED NON-ALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS. THE KRANTZ PRODUCTS COMPANY, Findlay, Ohio.
Filed December 18, 1919. Serial No. 126,218. PUBLISHED APRIL 6, 1920.

133,448. LADIES' SHIRTWAISTS. LA ROSE GARMENT COMPANY, St. Louis, Mo.
Filed March 3, 1919. Serial No. 116,269. PUBLISHED APRIL 13, 1920.

133,449. CEREAL, MALTLESS BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. LAURENT ROY, Manchester, N. H.
Filed November 28, 1919. Serial No. 125,400½. PUBLISHED APRIL 13, 1920.

133,450. PORTABLE SEATS KNOWN AS BLEACHERS. LEAVITT MFG. CO., Urbana, Ill.
Filed May 19, 1919. Serial No. 118,682. PUBLISHED MARCH 23, 1920.

133,451. MEDICINE FOR CERTAIN NAMED AILMENTS. ABRAHAM LEV, Philadelphia, Pa.
Filed November 28, 1919. Serial No. 125,391. PUBLISHED APRIL 20, 1920.

133,452. BOYS' PANTS AND BOYS' COATS. LIBERTY BOYS KNEE PANTS CO., New York, N. Y.
Filed May 1, 1919. Serial No. 118,057. PUBLISHED APRIL 13, 1920.

133,453. SECTIONAL STEEL BUILDINGS. LIBERTY STEEL PRODUCTS COMPANY, INC., New York, N. Y.
Filed January 22, 1920. Serial No. 127,481. PUBLISHED MARCH 30, 1920.

133,454. SMOKING AND CHEWING TOBACCO AND CIGARETTES. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed September 20, 1919. Serial No. 122,045. PUBLISHED FEBRUARY 10, 1920.

133,455. CIGARETTES. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed January 17, 1920. Serial No. 127,251. PUBLISHED APRIL 6, 1920.

133,456. NEWSPAPER-SECTIONS. LOS ANGELES EXAMINER, Los Angeles, Calif.
Filed May 8, 1919. Serial No. 118,268. PUBLISHED JANUARY 6, 1920.

133,457. NEWSPAPER-SECTIONS. LOS ANGELES EXAMINER, Los Angeles, Calif.
Filed October 30, 1919. Serial No. 124,351. PUBLISHED JANUARY 6, 1920.

133,458. NEWSPAPER-SECTIONS. LOS ANGELES EXAMINER, Los Angeles, Calif.
Filed May 8, 1919. Serial No. 118,267. PUBLISHED JANUARY 6, 1920.

133,459. SCALP-TREATMENT LIQUID, FACE-TREATMENT LIQUID, SKIN-TREATMENT LIQUID, AND PILE-REMEDY OINTMENT. J. E. LOUDENSLAGER, Littleton, W. Va.
Filed November 29, 1919. Serial No. 125,428. PUBLISHED APRIL 20, 1920.

133,460. WASHING COMPOUND. MAB CLEANER MANUFACTURING COMPANY, Salt Lake City, Utah.
Filed December 17, 1918. Serial No. 114,689. PUBLISHED APRIL 13, 1920.

133,461. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed January 20, 1920. Serial No. 127,379. PUBLISHED APRIL 6, 1920.

133,462. WEEKLY MAGAZINE. MANUFACTURERS RECORD PUBLISHING COMPANY, Baltimore, Md.
Filed September 18, 1919. Serial No. 122,846. PUBLISHED JANUARY 6, 1920.

133,463. TRIMMED AND UNTRIMMED HATS. MAYER & GOLDSMITH, New York, N. Y.
Filed September 19, 1919. Serial No. 122,902. PUBLISHED APRIL 6, 1920.

133,464. CERTAIN NAMED PLAYGROUND AND GYMNASIUM APPARATUS. FRED MEDART MFG. CO., St. Louis, Mo.
Filed April 10, 1919. Serial No. 117,346. PUBLISHED MARCH 30, 1920.

133,465. CIGARETTES. RIZOUK D. MESSAYEH, New York, N. Y.
Filed December 30, 1919. Serial No. 126,649. PUBLISHED APRIL 13, 1920.

133,466. PARASOLS AND UMBRELLAS. J. A. MIGEL, INC., New York, N. Y.
Filed February 13, 1920. Serial No. 128,361. PUBLISHED APRIL 13, 1920.

133,467. YEARLY INTEREST-TABLES. STANLEY G. MILLER, Chicago, Ill.
Filed July 29, 1918. Serial No. 112,396. PUBLISHED JANUARY 6, 1920.

133,468. CIGARETTES. MINNESOTA TOBACCO COMPANY, Duluth, Minn.
Filed August 11, 1919. Serial No. 121,536. PUBLISHED APRIL 6, 1920.

133,469. SILK GOODS IN THE PIECE. T. J. MITCHELL & CO. INC., New York, N. Y.
Filed January 31, 1920. Serial No. 127,824. PUBLISHED MAY 4, 1920.

133,470. HOSIERY. MITCHELL HOSIERY COMPANY, Columbus, Ga.
Filed September 29, 1919. Serial No. 123,251. PUBLISHED APRIL 13, 1920.

133,471. LEATHER. MONARCH LEATHER COMPANY, Chicago, Ill.
Filed January 14, 1920. Serial No. 127,142. PUBLISHED MARCH 30, 1920.

133,472. LEATHER. MONARCH LEATHER COMPANY, Chicago, Ill.
Filed January 5, 1920. Serial No. 126,807. PUBLISHED MARCH 30, 1920.

133,473. DRESSING FOR FABRICS, LEATHER, AND LEATHER IMITATIONS. THE MOTOR-CAR SUPPLIES MANUFACTURING COMPANY, Denver, Colo.
Filed June 26, 1917. Serial No. 104,702. PUBLISHED JANUARY 13, 1920.

133,474. TRADE PUBLICATION ISSUED MONTHLY. THE NATIONAL COUNCIL OF TRAVELING SALESMEN'S ASSOCIATIONS, New York, N. Y.
Filed September 5, 1919. Serial No. 122,363. PUBLISHED FEBRUARY 24, 1920.

133,475. PHOTOGRAPHS AND REPRINTS THEREOF. THE NEW YORK TIMES COMPANY, New York, N. Y.
Filed August 12, 1919. Serial No. 121,598. PUBLISHED JANUARY 13, 1920.

133,476. PHOTOGRAPHS AND REPRINTS THEREOF. THE NEW YORK TIMES COMPANY, New York, N. Y.
Filed August 12, 1919. Serial No. 121,599. PUBLISHED JANUARY 13, 1920.

133,477. WALL-BOARD, SHEATHING-BOARD, AND BUILDING-PAPER. NIAGARA WALL BOARD COMPANY INCORPORATED, Buffalo, N. Y.
Filed July 2, 1919. Serial No. 120,219. PUBLISHED FEBRUARY 10, 1920.

133,478. COMPLEXION-CREAM. T. NOONAN & SONS COMPANY, Boston, Mass.
Filed April 7, 1919. Serial No. 117,242. PUBLISHED APRIL 20, 1920.

133,479. LOCKING SAFETY DEVICE ON STEERING-POSTS OF AUTOMOBILES. NUGO DEVICE CORPORATION, New York, N. Y.
Filed October 15, 1917. Serial No. 106,777. PUBLISHED JANUARY 29, 1918.

133,480. PHONOGRAPH-RECORD BRUSHES. PARKS & PARKS, INC., Troy, N. Y.
Filed December 11, 1919. Serial No. 125,856. PUBLISHED MARCH 2, 1920.

133,481. HAIR-NETS. PARISTYLE NOVELTY CO. INC., New York, N. Y.
Filed August 1, 1919. Serial No. 121,183. PUBLISHED FEBRUARY 10, 1920.

133,482. GINGHAMS IN THE PIECE AND COTTON PIECE GOODS. PARKHILL MFG. CO., Fitchburg, Mass.
Filed December 18, 1919. Serial No. 126,228. PUBLISHED APRIL 27, 1920.

133,483. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed February 17, 1919. Serial No. 115,927. PUBLISHED APRIL 13, 1920.

133,484. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed February 17, 1919. Serial No. 115,928. PUBLISHED APRIL 6, 1920.

133,485. WOOLEN PIECE GOODS. PAWCATUCK WOOLEN MILLS, Westerly, R. I.
Filed January 20, 1920. Serial No. 127,394. PUBLISHED APIL 6, 1920.

133,486. PIECE GOODS COMPOSED OF WOOLENS, WORSTED, WOOL AND COTTON, WOOL AND SILK, SILK, AND COTTON. PEARSALL & COMPANY, New York, N. Y.
Filed January 31, 1920. Serial No. 127,830. PUBLISHED MAY 4, 1920.

133,487. MATTRESSES. THE PERFECTION MATTRESS & SPRING CO., Birmingham, Ala.
Filed September 8, 1919. Serial No. 122,444. PUBLISHED JANUARY 13, 1920.

133,488. HARDTACK. AUGUST V. PETERSON, Portland, Oreg.
Filed September 18, 1919. Serial No. 122,853. PUBLISHED JANUARY 13, 1920.

133,489. CIGARS, LITTLE CIGARS, AND CIGARETTES. P. LORILLARD COMPANY, New York, N. Y.
Filed January 17, 1920. Serial No. 127,252. PUBLISHED MARCH 30, 1920.

133,490. CERTAIN NAMED PUBLICATIONS. POOR'S PUBLISHING COMPANY, New York, N. Y.
Filed October 27, 1919. Serial No. 124,231. PUBLISHED MARCH 16, 1920.

133,491. TABLETS IN THE FORM OF ASPIRIN AND PHENACETIN, ASPIRIN AND CAFFEIN, AND ASPIRIN AND PEPSIN. PRESTON CHEMICAL COMPANY, Brooklyn, N. Y.
Filed December 24, 1919. Serial No. 126,423. PUBLISHED APRIL 20, 1920.

133,492. SOAP. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed November 13, 1919. Serial No. 124,867. PUBLISHED MARCH 23, 1920.

133,493. SHEET-MUSIC. PRODUCER MUSIC COMPANY, St. Louis, Mo.
Filed August 18, 1919. Serial No. 121,779. PUBLISHED APRIL 6, 1920.

133,494. LACQUER AND VARNISHES. PROVIDENCE SPECIALTY COMPANY, Providence, R. I.
Filed January 12, 1917. Serial No. 100,558. PUBLISHED APRIL 6, 1920.

133,495. PREPARATION FOR THE TREATMENT OF CERTAIN NAMED AILMENTS. RADWAY & CO., New York, N. Y.
Filed November 25, 1919. Serial No. 125,803. PUBLISHED APRIL 20, 1920.

133,496. TRADE PUBLICATION ISSUED DAILY. READY TO WEAR PUBLISHING COMPANY, New York, N. Y.
Filed September 13, 1919. Serial No. 122,660. PUBLISHED JANUARY 6, 1920.

133,497. COMPOUND FOR USE IN CLEANING FABRICS, GLASS, MARBLE, CROCKERY, METALS, AND ENAMELED OR PAINTED SURFACES. GEORGE W. REINHARDT CO., Boston, Mass.
Filed September 16, 1919. Ser. No. 122,791. PUBLISHED JANUARY 13, 1920.

133,498. CERTAIN NAMED CARTRIDGES, SHOT-SHELLS, SHELLS, BLANK CARTRIDGES, CAPS, PRIMERS, WADS, AND BULLETS. THE REMINGTON ARMS UNION METALLIC CARTRIDGE CO. INC., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; Hoboken, N. J., and New York, N. Y.
Filed November 12, 1919. Serial No. 124,814. PUBLISHED FEBRUARY 24, 1920.

133,499. CERTAIN NAMED PIECE GOODS. RENFREW M'FG. CO., Adams, Mass.
Filed December 31, 1919. Serial No. 126,698. PUBLISHED APRIL 27, 1920.

133,500. HANDKERCHIEFS. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed December 26, 1919. Serial No. 126,485. PUBLISHED APRIL 27, 1920.

133,501. CERTAIN NAMED NURSERY FURNITURE. M. RICE COMPANY, Philadelphia, Pa.
Filed July 16, 1919. Serial No. 120,621. PUBLISHED APRIL 6, 1920.

133,502. DIRECTORIES OF STORES AND SHOPS, IN BOOK FORM, ISSUED FROM TIME TO TIME. CHARLES S. RINDSFOOS, New York, N. Y.
Filed October 18, 1919. Serial No. 123,941. PUBLISHED MARCH 23, 1920.

133,503. CIGARS. WARD P. ROBERTS, Milford, Mass.
Filed September 24, 1919. Serial No. 123,083. PUBLISHED JANUARY 27, 1920.

133,504. CIGARS. WARD P. ROBERTS, Milford, Mass.
Filed September 24, 1919. Serial No. 123,081. PUBLISHED JANUARY 27, 1920.

133,505. AVIATORS' HARNESS, AVIATORS' BELTS, AND METAL COUPLING ATTACHMENTS FOR THE SAME. A. V. ROE & CO., LTD., Manchester, England.
Filed September 3, 1919. Serial No. 122,265. PUBLISHED MARCH 30, 1920.

133,506. ICE-SKATES. THE SAMUEL WINSLOW SKATE MFG. CO., Worcester, Mass.
Filed September 22, 1919. Serial No. 123,009. PUBLISHED APRIL 20, 1920.

133,507. STEEL BARS, RODS, BILLETS, BLOOMS, SHEETS, PLATES, SLABS, STRIPS, BLOCKS, AND FORGINGS. SANDERSON BROS. & COMPANY, Pittsburgh, Pa.
Filed October 30, 1919. Serial No. 124,366. PUBLISHED FEBRUARY 10, 1920.

133,508. CIGARS, CIGARETTES, CHEROOTS, SMOKING AND CHEWING TOBACCO, AND SNUFF. D. A. SCHULTE INC., New York, N. Y.
Filed November 13, 1919. Serial No. 124,873. PUBLISHED JANUARY 27, 1920.

133,509. BED AND COUCH SPRINGS AND MATTRESSES. THE SHOTT MANUFACTURING COMPANY, Cincinnati and Dayton, Ohio.
Filed April 21, 1919. Serial No. 117,706. PUBLISHED MARCH 2, 1920.

133,510. [WITHDRAWN.]

133,511. COTTON PIECE GOODS, COTTON AND SILK DRESS GOODS, AND COTTON AND WORSTED DRESS GOODS. WM. SIMPSON, SONS & CO., Philadelphia, Pa.
Filed October 12, 1917. Serial No. 106,747. PUBLISHED APRIL 27, 1920.

133,512. SILK PIECE GOODS AND COTTON PIECE GOODS AND COMBINATIONS OF SAME. WILLIAM SKINNER & SONS, Holyoke, Mass.
Filed February 17, 1920. Serial No. 128,530. PUBLISHED MAY 4, 1920.

133,513. NON-INTOXICATING BEVERAGE. SOUTHERN BEVERAGE COMPANY, Galveston, Tex.
Filed May 14, 1919. Serial No. 118,493. PUBLISHED JANUARY 6, 1920.

133,514. RUNNING-BOARDS, MATS, HEEL-PLATES, AND HEEL-RESTS FOR AUTOMOBILES. THE C. SPIRO MFG. CO., New York, N. Y.
Filed July 9, 1919. Serial No. 120,393. PUBLISHED APRIL 6, 1920.

133,515. LINT-COTTON. STANDARD COTTON COMPANY OF AMERICA, Wilmington, Del., and Philadelphia, Pa.
Filed October 6, 1919. Serial No. 123,503. PUBLISHED MARCH 30, 1920.

133,516. SILK IN THE PIECE. STAVISKY & GREENSTONE INC., New York, N. Y.
Filed September 18, 1919. Serial No. 122,859. PUBLISHED APRIL 27, 1920.

133,517. WHEELED CHILDREN'S BEDS AND CRIBS. STEINFELD BROS., New York, N. Y.
Filed December 14, 1916. Serial No. 99,947. PUBLISHED APRIL 20, 1920.

133,518. CERTAIN NAMED MEN'S AND CHILDREN'S CLOTHING MADE OF COTTON, SILK, AND WOOLEN FABRICS. WALTER M. STEPPACHER & BRO. INC., Philadelphia, Pa.
Filed December 4, 1919. Serial No. 125,586. PUBLISHED APRIL 6, 1920.

133,519. FLOWER, FIELD, AND VEGETABLE SEEDS. STOKES SEED FARMS COMPANY, Moorestown, N. J.
Filed October 8, 1919. Serial No. 123,560. PUBLISHED APRIL 13, 1920.

133,520. COTTON PIECE GOODS. ROBERT A. SUFFERN, Plainfield, N. J.
Filed July 28, 1919. Serial No. 121,027. PUBLISHED FEBRUARY 3, 1920.

133,521. [WITHDRAWN.]

133,522. COTTON PIECE GOODS. SWIFT MFG. CO., Columbus, Ga.
Filed January 8, 1920. Serial No. 126,948. PUBLISHED APRIL 6, 1920.

133,523. HERB TEA. JOHN G. SULTANAKI, Savannah, Ga.
Filed July 22, 1919. Serial No. 120,802. PUBLISHED APRIL 6, 1920.

133,524. TOILET PREPARATIONS—VIZ., TALCUM POWDER. TALCUM PUFF COMPANY, Brooklyn, N. Y.
Filed December 30, 1919. Serial No. 126,661. PUBLISHED APRIL 20, 1920.

133,525. CIGARS. THOS. E. TAUGHER, Mount Vernon, Ohio.
Filed November 6, 1919. Serial No. 124,635. PUBLISHED FEBRUARY 3, 1920.

133,526. CERTAIN NAMED TOILET PREPARATIONS. IDA J. TETLOW, Philadelphia, Pa.
Filed September 16, 1919. Serial No. 122,795. PUBLISHED APRIL 20, 1920.

133,527. APPARATUS SYMBOLIZING A JOURNEY TO THE MOON. SELENE P. THOMPSON, New York, N. Y.
Filed October 28, 1919. Serial No. 124,289. PUBLISHED MAY 4, 1920.

133,528. CANES, PARASOLS, AND UMBRELLAS. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,257. PUBLISHED APRIL 13, 1920.

133,529. HAIR-DRESSING. THE TONO-SCALPA COMPANY, INC., Richmond, Va.
Filed October 11, 1919. Serial No. 123,719. PUBLISHED MARCH 30, 1920.

133,530. KNOCKDOWN SAND-BOXES. HENRY D. TUCKER, Avenel, N. J.
Filed April 29, 1919. Serial No. 118,000. PUBLISHED APRIL 6, 1920.

133,531. LEATHER, FINISHED AND PARTLY FINISHED, AND PARTICULARLY PICKER-LEATHER. THE ULMER LEATHER COMPANY, Norwich, Conn.
Filed February 7, 1920. Serial No. 128,121. PUBLISHED APRIL 6, 1920.

133,532. FIREWORKS. UNEXCELLED MANUFACTURING COMPANY, INC., New York, N. Y.
Filed August 23, 1919. Serial No. 121,951. PUBLISHED FEBRUARY 3, 1920.

133,533. BOOT AND SHOE HEELS OF RUBBER. UNITED LACE & BRAID MANUFACTURING COMPANY, Cranston, R. I.
Filed September 11, 1918. Serial No. 113,134. PUBLISHED APRIL 13, 1920.

133,534. MONTHLY PUBLICATION. UNITED SHOE MACHINERY ATHLETIC ASSOCIATION, Beverly, Mass.
Filed September 5, 1919. Serial No. 122,374. PUBLISHED APRIL 13, 1920.

133,535. BROAD SILKS, VELVET; PLAIN, FANCY, AND PRINTED FIBER SILKS; SILK AND COTTON AND COTTON AND WOOLEN GOODS. UNITED SILK MILLS, Boston, Mass.
Filed January 12, 1920. Serial No. 127,069. PUBLISHED APRIL 27, 1920.

133,536. CIGARS. UTOPIA CIGAR COMPANY, Nashville, Tenn.
Filed September 19, 1919. Serial No. 122,922. PUBLISHED FEBRUARY 3, 1920.

133,537. NON-ALCOHOLIC, NON-INTOXICATING, MALTLESS, NON-CEREAL FRUIT BEVERAGE, SOLD AS A SOFT DRINK. VICTOR PRODUCTS CO., Chicago, Ill.
Filed December 15, 1919. Serial No. 126,079. PUBLISHED MARCH 9, 1920.

133,538. RUBBER AND FABRIC OUTER CASINGS FOR PNEUMATIC AUTOMOBILE-TIRES AND INNER TUBES FOR AUTOMOBILE PNEUMATIC TIRES. THE VICTOR RUBBER COMPANY, Springfield, Ohio.
Filed July 31, 1919. Serial No. 121,162. PUBLISHED DECEMBER 30, 1919.

133,539. CIGARS. WALKER-MATTESON COMPANY, Joliet, Ill.
Filed December 29, 1919. Serial No. 126,603. PUBLISHED APRIL 13, 1920.

133,540. TABLE-SALT. WALKER-MATTESON COMPANY, Joliet, Ill.
Filed December 30, 1919. Serial No. 126,666. PUBLISHED APRIL 20, 1920.

133,541. AUTOMOBILES AND MOTOR-TRUCKS. THE WHITE COMPANY, Cleveland, Ohio.
Filed December 23, 1918. Serial No. 114,791. PUBLISHED APRIL 6, 1920.

133,542. TOWELLING. JAMES F. WHITE & CO., INC., New York, N. Y.
Filed February 4, 1920. Serial No. 127,987. PUBLISHED MAY 4, 1920.

133,543. CERTAIN NAMED STATIONERY. WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass.
Filed November 10, 1919. Serial No. 124,741. PUBLISHED MARCH 23, 1920.

133,544. CIGARETTES. EMANUEL & WOODWARD, New York, N. Y.
Filed November 21, 1919. Serial No. 125,152. PUBLISHED FEBRUARY 3, 1920.

133,545. PHARMACEUTICAL CHALK PRODUCT IN TABLET FORM FOR INTERNAL USE. JOHANN A. WÜLFING, Berlin, Germany.
Filed August 11, 1919. Serial No. 121,553. PUBLISHED APRIL 20, 1920.

133,546. OINTMENT FOR EXTERNAL USE. WILLIAM H. YOUNG, Columbus, Ga.
Filed December 3, 1919. Serial No. 125,556. PUBLISHED APRIL 20, 1920

133,547. TOOTHBRUSHES. WILLIAMS, DAVIS, BROOKS & HINCHMAN SONS, Detroit, Mich.
Filed December 13, 1919. Serial No. 125,987. PUBLISHED APRIL 13, 1920.

133,548. WOOD AND METAL BEDS, POSTER-BEDS, AND CHIFFOROBES. WIRTH-LANG COMPANY INC., Louisville, Ky.
Filed December 5, 1919. Serial No. 125,639. PUBLISHED MARCH 23, 1920.

133,549. WOOLEN GOODS IN THE PIECE. WORUMBO MANUFACTURING COMPANY, Bath, Me.
Filed March 6, 1920. Serial No. 129,364. PUBLISHED MAY 4, 1920.

133,550. SMOKING-TOBACCO. THE ZORRO TOBACCO CO., INC., New York, N. Y.
Filed January 24, 1917. Serial No. 100,907. PUBLISHED FEBRUARY 10, 1920.

133,551. CIGARS, CIGARETTES, AND SMOKING AND CHEWING TOBACCO. BENJAMIN ZILBERSTIEN, Philadelphia, Pa.
Filed October 17, 1919. Serial No. 123,916. PUBLISHED MARCH 2, 1920.

133,552. TOILET PREPARATIONS FOR TREATING THE SKIN. GEO. ZUBROD & CO., Louisville, Ky.
Filed November 26, 1919. Serial No. 125,356. PUBLISHED APRIL 20, 1920.

LABELS

REGISTERED JULY 27, 1920.

21,906.—*Title:* "NUT-ALL." (For Oleomargarin.) THE BALTIMORE BUTTERINE CO., Baltimore, Md. Filed March 5, 1920.

21,907.—*Title:* "SILVER STAR." (For Oleomargarin.) THE BALTIMORE BUTTERINE CO., Baltimore, Md. Filed June 8, 1920.

21,908.—*Title:* "BITROSE SCOTTIES." (For Candies.) BITROSE COMPANY, Milwaukee, Wis. Filed December 5, 1919.

21,909.—*Title:* "CHUMP." (For Soaps.) CALIFORNIA SOAP COMPANY, INC., Los Angeles, Calif. Filed November 28, 1919.

21,910.—*Title:* "BEAUX ARTS CANDY." (For Candies.) CHARLES W. CANNAR, Chicago, Ill. Filed November 10, 1919.

21,911.—*Title:* "COTEC." (For Pile-Ointment.) THOMAS E. CONNOR, Lynn, Mass. Filed April 23, 1919.

21,912.—*Title:* "CUP & SAUCER." (For Coffee.) DWINELL-WRIGHT COMPANY, Boston, Mass. Filed April 22, 1920.

21,913.—*Title:* "FLOSSIES." (For Candy Lozenges.) THE FLOSSMINT COMPANY, Spokane, Wash. Filed November 12, 1919.

21,914.—*Title:* "IDAHO APPLES." (For Fresh Apples.) JUDAH PIERCE GRAY, Nampa and Emmett, Idaho. Filed February 2, 1920.

21,915.—*Title:* "SCIROPPO TAMARINDO." (For Non-Intoxicating Beverages.) THE ITALIAN DISTILLING CO., Chicago, Ill. Filed October 20, 1919.

21,916.—*Title:* "MI CANDITA." (For Cigars.) VITALIO JORDAN, Milwaukee, Wis. Filed September 6, 1919.

21,917.—*Title:* "LEMON CLEANSING CREAM." (For a Massage and Cleansing Cream.) ALFRED J. KRANK, St. Paul, Minn. Filed July 18, 1919.

21,918.—*Title:* "LEMON VANISHING CREAM." (For a Skin-Cream.) ALFRED J. KRANK, St. Paul, Minn. Filed August 2, 1919.

21,919.—*Title:* "ROSA-BELLE." (For Silks.) LINDEKE, WARNER & SONS, INCORPORATED, St. Paul, Minn. Filed October 25, 1919.

21,920.—*Title:* "NACARINE." (For a Lotion for the Complexion.) THE NACARINE CO., New York, N. Y. Filed September 18, 1919.

21,921.—*Title:* "LOG CABIN." (For Candy—Namely, Pecan Rolls.) PULOS BROS., Elmira, N. Y. Filed February 20, 1920.

21,922.—*Title:* "PACKARD BRAND, EGYPTIAN STYLE." (For Butter-Cream Chocolates.) R. A. SANBURG, Burlington, Iowa. Filed November 21, 1919.

21,923.—*Title:* "OVER THE TOP." (For a Game.) E. B. SODE PAPER BOX COMPANY, Chicago, Ill. Filed November 17, 1919.

21,924.—*Title:* "DELAINE." (For Toilet-Paper.) THE WM. H. WILLIAMS CO., Greenville, Ohio. Filed August 27, 1919.

21,925.—*Title:* "OUR-HOME-MADE." (For Malt-Syrup.) CHARLES T. ZIRKLE, Portland, Oreg. Filed September 15, 1919.

PRINTS

REGISTERED JULY 27, 1920.

5,267.—*Title:* "ONE OF THE FEW THINGS 5 CENTS WILL STILL BUY—GOLD DUST." (For Washing-Powder.) THE N. K. FAIRBANK COMPANY, Chicago, Ill. Filed February 19, 1920.

5,268.—*Title:* "GRAHAM BEAUTY SECRET." (For a Preparation for Cleansing the Skin.) PERCY GRAHAM, Chicago, Ill. Filed November 28, 1919.

5,269.—*Title:* "KING 8 SEDANETTE." (For Automobiles.) KING CAR CORPORATION OF NEW YORK, New York, N. Y. Filed July 30, 1919.

5,270.—*Title:* "SOLREX." (For Watches.) MARSHALL FIELD AND COMPANY, Chicago, Ill. Filed February 5, 1919.

5,271.—*Title:* "TAXPAYERS VALUE BRICK ROADS." (For Paving-Brick.) NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, Cleveland, Ohio. Filed November 26, 1919.

5,272.—*Title:* "SALZ $1 FOUNTAIN PEN." (For Fountain-Pens.) SALZ BROTHERS, New York, N. Y. Filed December 13, 1919.

5,273.—*Title:* "SWEENEY TANK AND SUPPLY CO." (For Tanks and Tank Supplies.) THOMAS E. SWEENEY, Kansas City, Mo. Filed September 26, 1919.

5,274.—*Title:* "DON'T BUY NEW CORSETS." (For Dye-Soap.) SUNBEAM CHEMICAL COMPANY, Chicago, Ill. Filed April 21, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

GRUS, JR., *v.* EYNON.

Decided March 17, 1919.

1. PATENTS—INTERFERENCE—ABANDONED EXPERIMENT.

A party must be judged by his conduct rather than by what he says afterward were his intentions. Where G. alleges that he constructed a device in March, 1913, and tested it shortly thereafter by placing it in a car for a week, after which it was removed and taken to a party for the purpose of having dies made, where it remained until 1917, and that this test was so satisfactory that he did not think it necessary to test two other devices made in August, 1914, and August, 1915, respectively, but he further testifies that three other devices were made in 1916, and that several thousand devices constructed in accordance with these models were made and sold, but no application for the invention was filed until June, 1916, although three other applications were filed which were not within the issue, *Held* that the evidence indicates that what was done in 1913 amounted only to an abandoned experiment.

2. SAME—SAME—EVIDENCE.

Where three patents were granted to a party whose name is the same as that of an applicant involved in interference, and the name of the attorneys in each is the same, and the applicant in the interference testifies that one of these patents was taken out by him, and the description thereof contains a reference to another of these patents, *Held* that it may properly be concluded that the applications were all filed by the same person, although the patents were not introduced into evidence.

(Affirmed by Court of Appeals, District of Columbia, 276 O. G., 780.)

APPEAL from Examiners-in-Chief.

SPRING-OILER.

Messrs. Brown, Nissen, & Sprinkle and *Messrs. Brown & Nissen* for Grus, Jr.

Messrs. Hull, Smith, Brock & West for Eynon.

WHITEHEAD, *First Assistant Commissioner:*

The junior party, Grus, appeals from the decision of the Examiners-in-Chief affirming the decision of the Examiner of Interferences awarding priority of invention to Eynon.

The invention in issue is a lubricator intended to lubricate the springs of automobiles.

Counts 1, 3, and 4 of the issue read as follows:

1. In a leaf spring lubricator, the combination with a casing having a recess in the bottom thereof and forming a continuous wall around the edge of the bottom of the casing, a pad of absorbent material fitting in the casing, and means to press the casing against the edges of the spring leaves thereby compressing the pad about its edge.

3. In a spring-oiler, a cup element consisting of a main receptacle provided with a web formed with an oil cup and supporting means.

4. In combination with a leaf spring, a lubricating device therefor comprising a pair of metal plates extending across opposite edges of the leaves and provided with oil pockets and flat bearing faces at opposite sides of the pockets, lubricating pads between said bearing faces and adjacent edges of the spring leaves and extending across the open sides of the pockets, and means for drawing the plates toward each other to clamp the device to the spring.

Eynon took no testimony and relies upon the filing of his application on Setpember 17, 1915, as a constructive reduction to practice of the invention.

Grus alleges a conception of the invention on February 19, 1913, and the making and successful operation of the device on or about March 1, 1913.

In his testimony Grus states that he conceived the invention on February 19, 1913, on which date he says he was working on a car in his garage in the evening and explained to Jorgensen and A. J. Kasper, Jr., that he was going to make a device of this kind. He states that he undertook to hollow out a steel plate but was unable to do so; that he went to a machinist who told him that the steel plate was too heavy but that the device could be made of brass, and that this was subsequently done. Jorgensen and Kasper testify that they visited Grus at his garage, and undertake to fix the date by reference to some work that Jorgensen had had done on his car, the bill for which is in evidence.

Grus has introduced in evidence, as Exhibit No. 1, a device having a flat steel plate which he says he attempted to hollow out. A device made of brass, but which Grus says was not of the right size, is in evidence as Exhibit No. 2. The device which is in evidence as Exhibit No. 3 Grus states was made a little later and was put upon a car and found to be satisfactory. He fixes the date of this test as about March 1, 1913. He testifies that he made two other devices, Exhibits Nos. 4 and 5, in August, 1914, and August, 1915, respectively. They differ from Exhibit No. 3 in that they have two plates which are held against the spring by bolts passing therethrough, one above and one below the spring, instead of a single plate held to the spring by a U-bolt. Grus testifies (Q. 45 and Q. 98) that he did not test either of these devices.

He also testifies that another device which is in evidence as Exhibit No. 6 was made in January, 1916, and that subsequently two others were made that are in evidence as Exhibits Nos. 7 and 8; that two or three thousand devices like Exhibit No. 7

were sold, and that a large number of devices like Exhibit No. 8 were sold. This latter is called a final form of the device. Exhibits Nos. 6 and 7 are heavy castings, whereas Exhibits Nos. 3, 4, 5, and 8 are made of stamped sheet metal.

It is noted that according to Grus's testimony Exhibits Nos. 1, 2, 3, and 4 were made prior to Eynon's filing date, while the other exhibits were made thereafter. It is Exhibit No. 3 that is particularly relied upon by the appellant as being a reduction to practice.

Both of the lower tribunals have held that in view of Grus's conduct with reference to these devices, particularly his not filing an application for patent on this device until June, 1916, the alleged reduction to practice was nothing more than an experiment and that he has shown no diligence in reducing the invention to practice.

According to Grus's testimony (Q. 64) after the device Exhibit No. 3 was made he put a little tin plate with slots in it in the recess in the brass plate to prevent the felt pad from being forced into this recess so that he could get oil therein more readily and that when this was done the device worked satisfactorily. He testifies (X-Q. 32) that this third device was kept on the car about a week and afterward taken to one August Wiegand to have dies made, in whose possession it remained until about three weeks before the testimony was taken.

In answer to question 75 Grus makes a long statement as to his financial condition and as to his attempts to raise the money to have dies made for the manufacturing of this device and his inability to raise the money or organize a company until the early part of 1916.

The records of this office, however, show that Grus filed on August 8, 1913, which is subsequent to the time that Exhibit No. 3 is said to have been made, an application for patent on a leaf-spring lubricator which is not within the issue. In that device the plate has no recess but has an oil-cup and an opening in the center of a flat plate, an annular leather washer being put between the plate and the spring, thereby leaving a space for the oil between the plate and the spring. This patent is referred to by Grus in answer to question 121. The records also show that Grus filed applications for patents on three other forms of the device—on August 19, 1914, May 29, 1915, and January 14, 1916, respectively. These devices are not within the issue. All three of these applications have matured into patent. Objection was raised to the consideration of these patents on the ground that they were not introduced in evidence and proper notice was not given under the rule, it being argued that there is nothing to show that the William Grus, Jr., on whose applications the patents were granted, is the same William Grus, Jr., whose application is involved in this interference. The name is the same, the attorneys are the same, and Patent No. 1,188,442, which was granted on the application filed May 29, 1915, specifically refers to No. 1,121,354, which is referred to by Grus in his testimony. They can therefore properly be considered.

Grus's statement that he was satisfied with the device of Exhibit No. 3 and that he was so well satisfied with the devices of Exhibits Nos. 4 and 5 that he did not think it necessary to test them is absolutely inconsistent with his action in filing, before he filed the present application, three applications for patent on devices for this general purpose, but which do not embody the invention in issue. It may be true, as alleged by Grus, that it would have cost $600 to have dies made to manufacture a device like Exhibit No. 3, though the record does not show that he got estimates but from the one machinist, but no satisfactory excuse is given why an application for patent was not filed on this device, nor does it appear why a device embodying the issue could not have been cast, as, it appears from Grus's own testimony, was done with reference to the other devices.

An applicant must be judged by his conduct rather than by what he says afterward were his intentions. His conduct in this case is so inconsistent with his claim that he was satisfied with Exhibit No. 3 that the holding is justified that the making of this device was a mere experiment and not a reduction to practice. Certainly Grus has not shown that he was diligent in reducing the invention in issue to practice at the time Eynon filed his application in September, 1915, and subsequently thereto, nor in view of the fact of the filing of three other applications, one in 1913, one in 1914, and one in May, 1915, can it be held that there was any sufficient excuse for the lack of diligence.

While, as stated above, Exhibit No. 3 is especially relied upon as a reduction to practice of the invention in issue, it is to be noted that this device does not have two plates, as called for by counts 4 and 5. Exhibits 4 and 5 contain the two plates, but neither of them was tested, nor was any device of this construction tested before Eynon's filing date.

It is held that Grus has established nothing more than a conception of the invention in issue prior to Eynon's filing date, that he was lacking in diligence, and that priority was properly awarded to George A. Eynon, the senior party.

The decision of the Examiners-in-Chief is affirmed.

HALEY *v.* DU RELL.

Decided February 11, 1919.

1. PATENTS—INTERFERENCE—REDUCTION TO PRACTICE OF PROCESS—EXPERIMENTAL MODEL.

The rules governing the reduction to practice of a process are similar to those for the reduction to practice of an apparatus. The process should be performed in a way that leaves no doubt as to its commercial practical working. *Held*, therefore, that a process carried out with an experimental model was not a reduction to practice.

2. SAME—SAME—REDUCTION TO PRACTICE—ABANDONED EXPERIMENT.

In an interference relating to an oil flotation apparatus and process where a party made laboratory experiments in 1912 in which he employed a glass funnel, a wash-bottle from which to supply water, and a spoon with which to feed ore, by which he could treat about four hundred pounds of ore per day, but did little or nothing thereafter to commercialize his machine and never made any salable commercial article, did not file his application until 1915, but took out another patent in October, 1915, for a different device, *Held* that what was done in 1912 must be considered as merely experimental.

Affirmed by the Court of Appeals, District of Columbia, 276 O. G., 778.)

APPEAL from Examiners-in-Chief.

CONCENTRATOR.

Messrs. Pennie, Davis, Marvin & Edmonds for Haley.

Mr. James T. Barkelew and *Mr. Edgar J. Clarkson* for Du Rell.

NEWTON, *Commissioner:*

This is an appeal from the decision of the Examiners-in-Chief affirming the action of the Examiner of Interferences awarding priority to Haley, the junior party, on twelve issues, of which counts 1 and 2 are examples:

1. An oil flotation apparatus comprising a flotation box having therein a receptacle holding a relatively small body of liquid and arranged to overflow into said box, and an injector arranged above the liquid level in said box to discharge a jet of pulp mixed with oil downwardly into the liquid in said receptacle and to aerate said pulp and form a froth therefrom.

2. The herein described continuous process of concentrating ores, including continuously fluidizing the ore containing mineral to be separated, continuously injecting a liquid jet through an atmosphere of gas directly and forcibly into a body of the fluidized ore to form a froth and continuously withdrawing the fluidizing ore from the body and separating the froth from the remaining material.

Du Rell has two applications filed February 12, 1915, and March 22, 1916. Haley filed June 4, 1915.

For reasons fully set forth by the lower tribunals and which have not been seriously questioned it is held that Haley reduced to practice the last of July, 1914.

Instead of taking testimony the parties have stipulated that affidavits subject to cross-examination of the affiants where desired be submitted.

Du Rell alleges conception, including the successful operation of a machine, in August, 1912. Du Rell sets up another reduction to practice in the fall of 1912.

This case largely turns on whether Du Rell's 1912 apparatus constituted a reduction to practice, since Haley did not enter the field until the summer of 1914.

Du Rell's apparatus, so far as can be gathered from its description, was built in the summer of 1912 of parts found in his laboratory. For example, the flotation-box was a glass funnel, the supply of water, etc., came from a wash-bottle, the ore was fed by means of a spoon, and the froth was caught in a beaker. The next apparatus seems to have been about the same so far as bears on the question whether or not this apparatus was a model or experiment or was what is technically known as a reduction to practice. It seems that about four hundred pounds of ore per day could be treated by this apparatus. This alone indicates the experimental nature of Du Rell's apparatus.

Du Rell contends that the second machine specifically demonstrated to his satisfaction that it would be a success and only needed to be enlarged; but after the fall of 1912 Du Rell appears to have done little or nothing to commercialize his machine and, indeed, has never made any salable commercial article, and his Patent No. 1,157,092, October 19, 1915, applied for after he had begun his work on the present invention, discloses quite a different invention from the one in controversy, indicating he was not satisfied with the present invention.

It is difficult sometimes to determine whether an apparatus is a mere experimental model or a reduction to practice. One of these things may gradually shade into the other. In *Hunter* v. *Stikeman* (85 O. G., 610; 13 App. D. C., 214) the Court of Appeals of the District of Columbia held on the matter of difference between a model and a reduction to practice:

So strict is the rule upon this subject that it has been held that complete invention must amount to demonstration. It must be shown to have passed the region of experiment—of possible or probable failure—and that it has arrived at certainty by being embodied in the form intended capable of producing the desired results. A model alone, no matter how complete in detail of construction, does not come within the operation of such a rule. (*Stephenson* v. *Goodell*, C. D., 1876, 133; 9 O. G., 1195.)

In *Manny* v. *Easley* v. *Greenwood*, (51 O. G., 1617,) where the point involved was whether a crude wooden lemon-squeezer was a reduction to practice, while the testimony showed that it had actually been used to squeeze lemons, the Commissioner held:

Reduction to practice is reduction to a form adapted to practical use. (*Coffin* v. *Ogden*, 18 Wall., 120; *Allis* v. *Buckstaff et al.*, C. D., 1882, 480; 13 Fed. Rep., 879; *Washburn & Moen Manuf'g Co.* v. *Haish*, C. D., 1880, 610; 4 Fed. Rep., 900.) Obviously the crude wooden model which Easley says he had to hold by the cone because he was afraid it would break from its base was not adapted to practical use. The utmost that can be said of it is that the use was experimental and could only establish a date of invention if it were followed up by such diligence as the law calls for to complete reduction to practice.

Du Rell's actions after his experiments also indicate that he attached little importance to his invention. His long delay before filing his application or taking any steps toward filing an application, his patenting another form of the device, and his failure to put it into commercial use all speak against this 1912 device being a reduction to practice as distinguished from an experimental model.

The attempt by Haley to show that Du Rell saw a publication of his invention in the "*Mining and Scientific Press*" of November 14, 1914, has failed. Du Rell himself denied ever having seen that publication, and hence was not stirred into action thereby.

At the hearing before me Du Rell emphasized the point that even though his 1912 *apparatus* may be classed as an experimental model, his process which he carried out with that apparatus complied with the tests of "reduction to practice" of the process *per se*, and hence he should be awarded the process claims.

The process claims and the apparatus claims in this case mean approximately the same thing, and it is highly technical to try to separate them on the

ground urged by Du Rell. While in a sense it is true that a process is independent of the particular apparatus used in carrying it out, indeed, that a process should ordinarily be capable of operation with widely-differing specific apparatuses, the rules for reduction to practice of a process are, as far as the decisions go, similar to those for the reduction to practice of an apparatus. The process should be performed in a way that leaves no doubt as to its commercial practical working, and it cannot be held that Du Rell has shown such a reduction to practice of his process, and the process claims should therefore go with the apparatus claims so far as this point is concerned.

I find no error in the decisions of the lower tribunals either as to fact or law, and the decision of the Examiners-in-Chief awarding priority to Haley is affirmed.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

DU RELL *v.* HALEY.

Decided June 2, 1920.

PATENTS—INTERFERENCE—DILIGENCE LACKING.

Evidence considered and *Held* that Du Rell's early experiments did not amount to a reduction to practice and that as he did nothing thereafter for almost two years, while in the meantime Haley reduced the invention to practice, Haley is entitled to an award of priority.

(Decision of the Commissioner, 276 O. G., 776, affirmed.)

Mr. T. K. Bryant for the appellant.

Mr. Dean S. Edmonds and *Mr. J. B. Hull* for the appellee.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office tribunals in an interference proceeding in which priority was awarded the junior party.

The invention involves a process and apparatus for concentration of ores. The claims are twelve in number but it is unnecessary to repeat them here. Each of the Patent Office tribunals has held that appellant's early efforts did not amount to reduction to practice and that, as he did nothing thereafter for almost two years and appellee entered the field meanwhile, he was lacking in diligence. Each of those tribunals has carefully and satisfactorily discussed the evidence in behalf of appellant, and for the reasons stated by them we affirm the decision from which this appeal was taken.

Affirmed.

Court of Appeals of the District of Columbia.

GAMMETER *v.* BACKDAHL.

Decided June 2, 1920.

PATENTS—PRIORITY—DILIGENCE.

In considering the bearing of experiments made to perfect an invention on the question of diligence the test is not whether such experiments led to anything as far as benefiting the public is concerned, but whether such tests were so unnecessary as to constitute evidence of bad faith. An inventor is to be commended rather than condemned for taking reasonable time to perfect his invention. (*Griffin* v. *Swenson*, 15 App. D. C., 135, 142; 89 O. G., 919.)

Mr. H. A. Dodge and *Mr. R. M. Pierson* for the appellant.

Mr. W. Lee Helms and *Mr. Chas. S. Jones* for the appellee.

ROBB, *J.:*

Appeal from a decision of an Assistant Commissioner of Patents in an interference proceeding awarding priority to the senior party Backdahl. The invention relates to mandrels or cores for the formation and curing of pneumatic tires. Counts 1, 3 and 6 are sufficiently illustrative of the six counts of the issue and are here reproduced:

1. A fluid tight, hollow, stretchable, metallic mandrel.
3. A tire-making mandrel comprising a fluid-tight, hollow, lead annulus provided with an inlet for introducing an expanding fluid.
6. A tire-making mandrel comprising an inner rigid metallic ring adapted to fit between the halves of a tire mold, and an outer, annular, hollow, lead mandrel-body thereon, provided with a fluid inlet pipe extending through said ring.

Backdahl is restricted to his filing date of December 14, 1915, for conception, disclosure and constructive reduction to practice.

Each of the Patent Office tribunals has found, and the evidence fully supports the finding, that Gammeter conceived and disclosed the invention September 7, 1915. The evidence clearly shows that from that time until the early part of June, 1916, he was endeavoring to evolve a fluid-tight and expansible lead core adapted to produce a cord tire as well as a fabric tire. A core that would produce either would be within the issue. The application drawings were commenced the latter part of May and completed late in June, when they were turned over to a patent attorney, who was very busy at the time and later took a vacation extending over a month. There was further activity on the part of Gammeter in August of 1916 and the application was filed on November 8th, following.

The Examiner of Interferences and the Board of Examiners-in-Chief held that Gammeter was diligent at the time Backdahl entered the field and reasonably diligent from that time until the filing of his application. The Assistant Commissioner disagreed with this finding and therefore reversed the decisions of the lower tribunals.

Where, as here, it clearly appears that the party first to conceive the invention was in good faith engaged in perfecting it at the time his adversary entered the field, that party should not be deprived of the fruits of his discovery because his efforts were not as successful as he hoped they would be. The Assistant Commissioner reached the conclusion that Gammeter's further—

experiments lead to nothing so far as benefiting the public goes,

but that is not the test. The question is whether further tests were so unnecessary as to constitute evidence of negligence or bad faith. Many times we have stated that an inventor is to be commended

rather than condemned for taking reasonable time to perfect his invention,

to prevent the Patent Office from being overloaded with applications for patents for crude and incomplete devices. (*Griffin* v. *Swenson*, 15 App., D. C., 135, 142.)

For the reasons stated by the Examiner of Interferences and the Board of Examiners-in-Chief, we are clearly of the view that Gammeter was not lacking in diligence. We are satisfied from the evidence that from the date of disclosure to the time his application was filed he was proceeding with reasonable diligence to perfect and patent his invention. As stated in *Woods* v. *Poor*, (29 App. D. C., 397,) there is no arbitrary rule or standard by which diligence may be measured, and each case must be considered and decided in the light of surrounding circumstances. Being fully convinced of Gammeter's good faith, we reverse the decision of the Assistant Commissioner and award priority to him.

Reversed.

The decision of the Assistant Commissioner reads as follows:

CLAY, *Assistant Commissioner:*

Backdahl appeals from the affirmance by the Examiners-in-Chief of an award of priority to the junior party Gammeter, on an invention broadly defined as follows:

"1. A fluid-tight, hollow, stretchable, metallic mandrel.

"3. A tire-making mandrel comprising a fluid-tight, hollow, lead annulus provided with an inlet for introducing an expanded fluid.

"5. A tire-making mandrel comprising a rigid metallic tongue-ring divided circumferentially into segments, and an expansible, hollow, lead mandrel-body seated thereon."

Gammeter filed application nearly a year after Backdahl, but is shown to have had a conception of the invention prior to Backdahl's filing date, whereas Backdahl is confined to his filing date, having made his invention abroad. There seems to be no question that Gammeter disclosed his invention in September, 1915, over two months before Backdahl's date of constructive reduction to practice; but Backdahl insists that Gammeter was not diligent in perfecting his invention. Careful attention to the nature of the invention is necessary to determine this matter.

The invention Gammeter discloses is simply a lead pipe used as an expansible mandrel in a mold for vulcanizing tire casings, that is, "a core or mandrel of sufficient rigidity to enable the article to be formed thereover, but also capable of being stretched by fluid pressure to expand the formed article and press it against a mold * * *." He shows and describes a coil of ordinary lead pipe with a turn sawed off, its ends soldered together and an inlet tube soldered into it. It is set in the trough on the outside of the sectional tongue ring held by clamps and assembled between the halves of a mold. On being expanded in the mold to give it a smooth surface and the proper size, it is ready for use to build up a tire casing thereon in the usual way, after which the tire and lead mandrel and supporting ring are placed in a vulcanizing mold and the casing stretched and properly held for the purpose of vulcanizing. Afterward the lead of the pipe is remelted and used over again. Nothing is said about the thickness of the pipe or any particular form of it, and Gammeter claimed in the broadest terms, a hollow lead mandrel. There was also claimed the method of making the lead mandrel by sawing and joining rings from a coil of pipe as above described, but these latter claims were dropped. It will be noticed that the invention has nothing to do with the manufacture of lead piping, nor anything to do with any particular form of lead pipe or mandrel.

The process of invention probably always includes the steps of conception of a function, conception of a general way to accomplish the function, designing and adapting means to accomplish the function; and finally testing these means to prove both that the function may be attained and that the means chosen are capable of attaining it; in other words, that the thing will work. This is one continuous mental process from conception to testing, and with rare exceptions an invention is not complete until the thing is proven by test, though this last step the law presumes to be accomplished by the filing of an allowable application for patent. After Gammeter's conception of a hollow expansible metal mandrel, rigid enough to build on, and made of lead so that it will be both rigid and expansible, and after he had conceived a way of making the lead tube, he still had to prove that it would work as a mandrel for curing tires. Instead of making a tube and trying it out, as the evidence shows he could easily have done, without any more ado, he went to work on quite a different problem—namely, to devise a new use for such a mandrel. That is, he was going to make a form of mandrel which was adapted to a peculiar form of support in order that it might be used in making a peculiar kind of tire. As to the hollow lead mandrel for tire molds generally, he did nothing. He experimented for over a year, but when all his experimenting was done he was exactly where he started, so far as concerns the invention of a hollow lead mandrel for tire molds, and he had not yet tried to prove that this thing would work. He filed his application finally, still relying upon the theoretical working and upon the constructive reduction to practice. That is, from about the middle of September, 1915, until November 8, 1916, Gammeter was making unsuccessful attempts, first to cast a lead mandrel in a mold, and then to make one by squirting molten lead through a specially formed pipe, both of which attempts were for the purpose of providing a specially formed groove and thickened portion on the inside of the lead tube, as shown in Gammeter's sketch, Exhibit Z, and in the photograph, Exhibit K. The main part of the work was in designing and building the die shown in his Exhibit L. It is fair to notice that Gammeter was a busy man in a responsible position as an experimental engineer for a large company and that his attorney, who delayed filing his application over four months, was a busy attorney with many cases to attend to.

In Gammeter's brief it is said that "There is no evidence of any intention on the part of Gammeter to abandon the invention." Considering what the invention was I am not satisfied with this statement of fact; but however that may be, it is hardly a statement of the proper mental attitude toward the question of diligence. The burden was upon Gammeter, not merely to negative a charge of laches, but to positively show diligence. (*Watson* v. *Thomas*, 106 O. G., 1776; C. D., 1903, p. 370.) The burden was on him to connect his conception with his final reduction to practice by a course of activity which, as the court said in *Twentieth Century Machinery Co.* v. *Loew Mfg. Co.*, (243 Fed. Rep., 373, at page 384,) "must consist of a degree of effort that can fairly be characterized as 'substantially one continuous act'," and that act must be the act of inventing "a fluid-tight, hollow, stretchable, metallic mandrel"—not inventing a particular form of lead pipe from which a special mandrel may be constructed for a particular purpose. After December 14, 1915, when Backdahl reduced to practice, nothing Gammeter could do could make him the inventor. He must have been the inventor from a time running back of this and reaching forward until nearly a year later when he filed his own application. "Diligence is of the essence of a proper relation between the conception and the reduction to practice of an invention." As illustrating this fact it has frequently been held that business convenience and the working out of auxiliary devices to make the invention more commercial and efficient will not excuse the delay. (*Stapleton* v. *Kinney*, 96 O. G., 1432; C. D., 1901, 414.) Nor is delay excusable when caused by the inventor's building a plant and the machinery with which to make use of the invention, especially when his application was finally filed without making any test. (*Slick* v. *Hansen*, 181 O. G., 1076; 39 App. D. C., 131.) Again, "it has been repeatedly held that work upon one form of a device cannot be considered as diligence in the reduction to practice of another form." (*Taylor* v. *Gilman*, 158 O. G., 883.) As to the part of the delay due to the attorney, it is not to be excused merely because he was busy or on a vacation. (*Briggs* v. *Lillie* v. *Cooke* v. *Jones & Taylor*, 116 O. G., 871; 1905 C. D., 168.)

If there was something in Gammeter's disclosure by which the public could benefit from the experiments he made on the special form of mandrel for use with a cord tire, his case would have more equity. But as a matter of fact his disclosure is just what it would have been if he had filed his application in September, 1915. What he was experimenting with was a further improvement subsidiary to the invention in issue, and this improvement he neither at any time reduced to practice nor disclosed when he came finally after the experiments to file an application for patent. His experiments led to nothing so far as benefiting the public goes.

It is in evidence that Gammeter had every facility for making a test of his invention at the beginning. He could have obtained in commerce, ready made, a lead pipe exactly as disclosed in his application and he could have made a test of the workability of the invention within a few days. Also he could have filed his application promptly.

The form of the invention as disclosed by Backdahl seems to have been somewhat more highly developed. He proposed a mandrel partly of iron and partly of lead, the skin or "mantle" of lead, 19' in Fig. 5 being made of a complete flattened lead pipe, supported on an iron ring 1 and the convex half of it extended in the female mold 16. In the form of Fig. 4 the lead pipe is split and drawn over the iron mandrel and its edges clamped by rings 20; the fluid for expansion being introduced between the iron mandrel and the lead skin.

Under these circumstances, and especially considering that the public did not benefit from the experimenting done by Gammeter after his complete conception and disclosure in September, 1915, I must conclude that it was error, in view of the decisions of the court, to hold Gammeter has proven himself diligent as against Backdahl

who was the first to reduce to practice. In the case of *O'Connell* v. *Schmidt* (122 O. G., 2065; 27 App. D. C., 77,) the court was liberal on the question of diligence, not only because the delay was short and well excused, but because O'Connell had built a model; had done something tangible and beneficial, and had virtually proved his invention and put it in such condition that if the inventor had died, his invention would nevertheless have survived. The present is a very different case from that, and from the case of *Woods* v. *Poor*, (130 O. G., 1313; 29 App. D. C., 397.) In the case of *Courson* v. *O'Connor* (227 Fed. Rep., 890) there was only a delay of three months, and this, it will be noticed, was after an actual reduction to practice.

The decision of the Examiners-in-Chief is reversed, and priority awarded to the senior party, Backdahl.

Court of Appeals of the District of Columbia.

GRUS, JR., *v.* EYNON.

Decided June 2, 1920.

PATENTS—INTERFERENCE—PRIORITY.

Evidence considered and *Held* that priority of invention was properly awarded to Eynon.

(Decision of the Assistant Commissioner, 276 O. G., 775, affirmed.)

Mr. Frank T. Brown and *Mr. C. M. Nissen* for the appellant.

Mr. J. B. Hull for the appellee.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office tribunals in an interference proceeding awarding priority to the senior party. The invention relates to automobile-leaf-spring lubricators. The issue is stated in five counts, of which the second will serve as an example:

2. In a leaf spring lubricator, a pad of absorbent material, a casing fitting over the absorbent material having a recess in its bottom and a perimetric wall, and means for pressing the casing against the edges of the leaves of a spring to compress the pad of its edges more than in the center.

The Patent Office tribunals have very carefully reviewed the evidence and found that appellant has not sustained the burden of proof. As we fully agree with the conclusion reached, we deem it unnecessary further to discuss the evidence, and accordingly affirm the decision.

Affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Cal.) The Logan patent, No. 836,592, for an apparatus for treating the butt ends of poles with a preservative, as limited by the prior art, *Held* not infringed. *Logan et al.* v. *Baxter et al.*, 264 Fed. Rep., 514.

Notice of Cancelation.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., July 19, 1920.

Alfred Victor Brokhahne, his assigns or legal representatives, take notice:

An application has been filed in this Office by Sigmund Isaacs, of New York, N. Y., to effect the cancelation of the trade-mark registration of Alfred Victor Brokhahne, of New York, N. Y., No. 12,417, dated July 21, 1885. The Office having been unable to secure service upon said Alfred Victor Brokhahne at the said address, notice is hereby given that unless said Alfred Victor Brokhahne, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancelation will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1920.

Harris Wolf, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Wolfinger Knitting Mills, Walnut and Rose streets, Reading, Pa., for registration of a trade-mark and trade-mark registered March 10, 1891, No. 19,153, to Harris Wolf, Chicago, Ill., and a notice of such declaration sent by registered mail to said Harris Wolf at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Harris Wolf, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

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JULY, 1920.

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DIGEST

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DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

JULY, 1920.

[The decisions of the United States District Court are indicated by the letter [b], of the Court of Appeals of the District of Columbia by a star (*), and of the United States Circuit Court of Appeals by the letter [d].]

ABANDONED EXPERIMENTS.

1. INTERFERENCE—DELAY.
A party must be judged by his conduct rather than by what he says afterward were his intentions. Where G. alleges that he constructed a device in March, 1913, and tested it shortly thereafter by placing it in a car for a week, after which it was removed and taken to a party for the purpose of having dies made, where it remained until 1917, and that this test was so satisfactory that he did not think it necessary to test two other devices made in August, 1914, and August, 1915, respectively, but he further testifies that three other devices were made in 1916, and that several thousand devices constructed in accordance with these models were made and sold, but no application for the invention was filed until June, 1916, although three other applications were filed which were not within the issue, *Held* that the evidence indicates that what was done in 1913 amounted only to an abandoned experiment. [Grus, Jr., *v.* Eynon, 775.

2. SAME—REDUCTION TO PRACTICE.
In an interference relating to an oil flotation apparatus and process where a party made laboratory experiments in 1912 in which he employed a glass funnel, a wash-bottle from which to supply water, and a spoon with which to feed ore, by which he could treat about four hundred pounds of ore per day, but did little or nothing thereafter to commercialize his machine and never made any salable commercial article, did not file his application until 1915, but took out another patent in October, 1915, for a different device, *Held* that what was done in 1912 must be considered as merely experimental. [Haley *v.* Du Rell, 776.

ABANDONMENT OF INVENTION.

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APPEAL TO THE COMMISSIONER OF PATENTS.

REVIEW NOT RESTRICTED TO QUESTIONS PUT IN ASSIGNMENT OF ERRORS.
On appeal to the Commissioner he is not bound to decide merely the specific questions put to him by the assignments of error, because it is his duty to refuse a patent whenever he has an opinion that the patent ought not to be granted, and it is immaterial how he gets the information upon which he bases his opinion.
[*Ex parte* Duncan, 207.

ASSIGNMENTS OF ERROR.

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ATTORNEYS.

See Interference; Suits for Infringement.

CANCELATION OF TRADE-MARK REGISTRATION.

See Trade-Marks, 3.

CLAIMS.

See Particular Patents; Terminology.

1. DUPLICATE OR REDUNDANT.
Where an applicant defines the same invention in numerous ways, he not only fails to secure his invention, but he fails to comply with the provision of the law that "he shall particularly point out and distinctly claim the part, improvement * * * which is his invention," and the claims are therefore indefinite. If an applicant writes two claims which define the same invention, then by that very fact he fails to point out his invention.
[*Ex parte* Duncan, 207.

2. REJECTION FOR DUPLICATION.
Duplication of claims invariably leads to indefiniteness, and an entire set of claims should be rejected as indistinct whenever by reason of duplication it is made uncertain what the invention is. The different claims must be on their face obviously different in substance. [Id.

3. INDEFINITENESS.
Claims which are confused by reciting numerous unnecessary limitations and using indefinite terms, making things appear of essence which are not of essence, are indefinite. [Id.

4. DISTINCTIONS.
Where an applicant presents a multiplicity of claims to define a simple invention and many are substantial duplicates of others, it is applicant's duty rather than that of the Examiner to point out how each claim patentably differs from every other one. [Id.

5. REJECTION FOR INDEFINITENESS AND REDUNDANCY.
The statute requires an applicant to so formulate his claims that the experts of the Patent Office may understand definitely what they mean, and the invention must be so distinctly described as to be understood by one ordinarily skilled in the art to which the invention belongs, and where a multiplicity of claims was presented on a simple invention, some of which were inherently indefinite, all of the claims were properly rejected for failure to point out the invention, as required by the law.
[*[d] *In re* Duncan, 211.

CLASS OF MERCHANDISE.

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CONCEPTION OF INVENTION.

See Priority of Invention, 1, 2.

CONFUSION OF THE PUBLIC.

See Trade-Marks, 2.

CONSTRUCTION OF CLAIMS.

1. AGGREGATION—RECORD-TAPE.
Claims for a record-tape for guidance in running a train provided with a standard-speed line and a maximum-allowable-speed line and perforations *Held* not objectionable as aggregations, as they enable the engineer to so regulate his speed as to keep an indicator between the two lines and so indicate at a glance that his instant speed is between the normal and maximum.
[*Ex parte* Duncan, 207.

2. SAME—DIFFERENT REGISTERS MOUNTED IN THE SAME CASING.
Two manually-operated registers adapted to keep a record of the quantity of gas and oil used in an automobile, mounted in the same casing with the ordinary speedometer and odometer, constitute but an aggregation of features, the registers being independent units.
[*In re* Smithey, 211.

CONSTRUCTION OF SPECIFICATIONS AND PATENTS.

See Particular Patents.

1. PIONEER PATENTEE CANNOT PROLONG MONOPOLY BY PATENTING ONE FEATURE OF THE DEVICE.
Where an inventor of an automatically-collapsible revolving door was granted a pioneer patent and insisted upon and obtained a construction so broad that any form of double-acting hinge or of a releasing device was an infringement, he could not prolong his patent monopoly by subsequently obtaining a patent for some one form of double-acting hinge or self-releasing or collapsible device.
[Van Kannel Revolving Door Co. *v.* Winton Hotel Co., 406.

2. INVENTION—ADAPTATION OF IMPROVEMENT IN CHILD'S WAIST TO INFANT'S BAND.
The adaptation of the inelastic reinforcing-tape with tabs of a child's knitted waist, to which buttons are sewed for the purpose of supporting lower garments, to an infant's band designed to support the napkin, the lower garment appropriate to the infant, *Held* devoid of invention. The Ovenshire patent, No. 800,237, *Held* void.
[Minneapolis Knitting Works *v.* Marshall Field & Co., 598.

CONSTRUCTION OF TRADE-MARK STATUTES.

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INDEFINITENESS.

See Claims.

INFRINGEMENT.

See Construction of Specifications and Patents, 1.

EXPIRATION OF PATENT.
A construction which was anticipated by a patent and condemned as an infringement of it may be freely made and sold after such patent has expired.
[Van Kannel Revolving Door Co. *v.* Winton Hotel Co., 406.

INTERFERENCE.

See Abandoned Experiments; Priority of Invention; Reduction to Practice.

EVIDENCE.
Where three patents were granted to a party whose name is the same as that of an applicant involved in interference, and the name of the attorneys in each is the same, and the applicant in the interference testifies that one of these patents was taken out by him, and the description thereof contains a reference to another of these patents, *Held* that it may properly be concluded that the applications were all filed by the same person, although the patents were not introduced into evidence.
[Grus, Jr., *v.* Eynon, 775.

INVENTION.

See Claims; Construction of Specifications and Patents, 2.

PATENTABILITY—SUBSTITUTION OF EQUIVALENTS.
Where a prior-art patent disclosed a device to produce a shower of tobacco and direct it onto a separating means and another patent disclosed a separator to act on granulated tobacco having elements of different specific gravities in which the tobacco was fed from a hopper onto a rapidly-moving belt, which propelled the tobacco against opposing air-currents, the heavier particles being thrown through the current and the lighter ones being deflected by the current, *Held* that it involved no invention to substitute the shower-producing means of the former for the hopper of the latter combination.
[*Ex parte* Teale, 595.

JUDGMENT.

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VAN KANNEL—REISSUE No. 14,255—REVOLVING DOOR—ANTICIPATION.
Claims 1, 2, 3, 13, 22, 23, and 24 of the Van Kannel Reissue Patent No. 14,255, for an automatically-collapsible revolving door, *Held* invalid, as anticipated by Patent No. 656,062, issud to the same inventor and now expired.
[Van Kannel Revolving Door Co. *v.* Winton Hotel Co., 406.

PARTIES TO SUIT.

See Suits for Infringement.

PATENTABILITY.

Claims, 4; see Construction of Specifications and Patents, 2; Invention.

INVENTION—ANALOGOUS USE.
The use of a device for separating parts of ground ore is so remote from that of separating the heavier and lighter parts of ground tobacco that the latter might not be suggested by the former.
[*Ex parte* Teale, 595.

PIONEER PATENTS.

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PRIORITY OF INVENTION.

See Abandoned Experiments.

1. DELAY AFTER ALLEGED REDUCTION TO PRACTICE.
Delay to file an application or practice an invention for more than two years after a doubtful reduction to practice, while not a deliberate abandonment under *Mason* v. *Hepburn* (1898, C. D., 10), indicates such laches as to avoid any advantage flowing from an earlier conception.
[Maremont *v.* Olson, 405.

2. INTERFERENCE.
In an interference between Brown and McIntosh priority awarded to McIntosh as being the first to conceive and constructively reduce to practice.
[Brown *v.* McIntosh, 405.

3. SAME.
Decision of the Assistant Commissioner of Patents awarding priority of invention to Olson affirmed.
[Maremont *v.* Olson, 406.

4. SAME—DILIGENCE LACKING.
Evidence considered and *Held* that Du Rell's early experiments did not amount to a reduction to practice and that as he did nothing thereafter for almost two years, while in the meantime Haley reduced the invention to practice, Haley is entitled to an award of priority.
[Du Rell *v.* Haley, 778.

5. SAME—DILIGENCE.
In considering the bearing of experiments made to perfect an invention on the question of diligence the test is not whether such experiments led to anything as far as benefiting the public is concerned, but whether such tests were so unnecessary as to constitute evidence of bad faith. An inventor is to be commended rather than condemned for taking reasonable time to perfect his invention. (*Griffin* v. *Swenson*, 13 App. D. C., 135, 142; 89 O. G., 919.)
[Gammeter *v.* Backdahl, 778.

PROCESS AND APPARATUS.

See Abandoned Experiments, 2; Reduction to Practice.

PUBLIC INSIGNIA.

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REDUCTION TO PRACTICE.

See Abandoned Experiments, 2; Priority of Invention, 1, 2.

PROCESS—EXPERIMENTAL MODEL.
The rules governing the reduction to practice of a process are similar to those for the reduction to practice of an apparatus. The process should be performed in a way that leaves no doubt as to its commercial practical working. *Held*, therefore, that a process carried out with an experimental model was not a reduction to practice.
[Haley *v.* Du Rell, 776.

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JUDGMENT—PATENTS.
A corporation, employing counsel appearing for defendant in a patent infringement suit and conducting the defense at its own cost and expense is a privy to any judgment rendered and bound thereby, but was not required to become a party to the record.
[Van Kannel Revolving Door Co. *v.* Winton Hotel Co., 406.

TERMINOLOGY.

CLAIMS—"PROPELLING MEANS."
The objection that an air-draft is not a "propelling mechanism" *Held* to be not well taken, as an air-draft is a well-known propelling means and is recognized as an equivalent of a strictly structural propelling means.
[*Ex parte*, Teale 595.

TEST.

See Abandoned Experiments, 1; Priority of Invention, 5.

TRADE-MARKS.

1. PUBLIC INSIGNIA—"U. S." NOT REGISTRABLE.
The meaning of "U. S." is too clearly established to permit of registration of any mark containing it as the most prominent feature in view of the provisions of section 5 of the Trade-Mark Act of 1905, denying registration to any mark which "consists of or comprises the flag or coat of arms or other insignia of the United States, or any simulation thereof, or of any State or municipality, or of any foreign nation."
[*In re* United States Rubber Company, 211.

2. "WHITE LILY"—"LILY WHITE"—SIMILARITY.
"White Lily" and "Lily White" are so similar as to be likely to lead to confusion.
[*R. H. Macy & Company v. New York Grocery Company, 506.

3. SIMILARITY OF GOODS—COFFEE AND TEA.
Registration of the words "White Lily" for coffee canceled in view of the prior use of "Lily White" on tea and other groceries, the goods, although different in themselves, being used for the same purpose. [*Id.

4. DESCRIPTIVE.
A mark for instep-supports consisting of a representation of the outline of a shoe broken away at the bottom and disclosing at the portion broken away an arch-support supported by the thumb, index and middle fingers of a hand, *Held* merely descriptive; *Held* also that even if it were permissible to disclaim the representation of the arch-support it would still be descriptive.
[*In re* Scholl Manufacturing Company, Inc., 500.

5. REGISTRABILITY.
Registration of a mark for instep-supports consisting of a representation of the outline of a shoe broken away at the bottom and disclosing at the portion broken away an arch-support supported by the thumb, index and middle fingers of a hand, *Held* not registrable upon disclaimer of the representation of the arch-support, because what is left would not be the mark which had been used and because the remaining part of the mark is also descriptive.
[*Id.

6. EVIDENCE OF EXTENSIVE USE.
Evidence of extensive use of a mark or that several traders have not heard of its use by others does not tend to prove in the least that it is not descriptive. [*Id.

VOID PATENTS.

See Construction of Specifications and Patents, 2.

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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED DURING THE MONTH OF JULY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A-N Company, The. (See Nash, R. J., and Alexander, assignors.)
A/S Myrens Verkstad. (See Elling, Jens W. A., assignor.)
A-Z Company, The. (See Hanmer, Laurence G., assignor.)
Aagaard, Carl L., Rockford, Ill. Hand scraping-tool. No. 1,345,658; July 6; v. 276; p. 65.
Aaron, Solomon E., Boston, Mass. Davit. No. 1,345,821; July 6; v. 276; p. 97.
Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heater. No. 1,345,730; July 6; v. 276; p. 79.
Abbott, Lyle S., River Edge, N. J., assignor to The Improved Equipment Company, New York, N. Y. Process of and apparatus for producing hydrogen. No. 1,345,905; July 6; v. 276; p. 114.
Abbott, Percy C., Dumbarton, assignor to Hardware Specialty Co., Inc., Richmond, Va. Saw-handle. No. 1,347,432; July 20; v. 276; p. 536.
Acme Die Casting Corporation. (See Bungay, George W., assignor.)
Acre, Ray E. (See Andrews, E. F., and Acre.)
Adair, David G., Ionia, Mich. Milk-crate. No. 1,345,979; July 6; v. 276; p. 129.
Adams-Campbell Company, The. (See Holdaway, Hall H., assignor.)
Adams, Colin H. (See Adams, Samuel H., and C. H.)
Adams, Leonard, Buffalo, N. Y. Annular steam rotary motor. No. 1,345,526; July 6; v. 276; p. 39.
Adams, Lewis M., Ridgefield Park, N. J. Typographic plate. No. 1,346,583; July 13; v. 276; p. 309.
Adams, Otis, assignor of one-half to F. Cooper, near Rio, Ill. Corn-husking cylinder. No. 1,346,931; July 20; v. 276; p. 437.
Adams, Ray P., Lohrville, Iowa. Valve-cap for pneumatic tires. No. 1,346,073; July 6; v. 276; p. 147.
Adams, Samuel H. and C. H., Fulford, England. Fluid or air direct-pressure lifting and forcing apparatus for solids and semi-solids. No. 1,347,358; July 20; v. 276; p. 522.
Adams, William C., Lincoln, Nebr. Flue-closure. No. 1,347,139; July 20; v. 276; p. 478.
Adicks, Henry, Duttons Landing, Calif. Vaporizer for liquid fuels. No. 1,345,822; July 6; v. 276; p. 97.
Adriance Machine Works, Inc. (See Calleson, Amos, assignor.)
Advance Machine Co. (See Antoine, A. D., and Travis, assignors.) (Reissue.)
Aeromarine Plane & Motor Co. (See Robinson, Hugh A., assignor.)
Ahrens, Charles W., New York, N. Y. Collar-supporter. No. 1,345,823; July 6; v. 276; p. 97.
Aigner, George J., Chicago, Ill. Index-tab. No. 1,346,101; July 13; v. 276; p. 215.
Aigner, George J., Chicago, Ill. Index-tab. No. 1,347,241; July 20; v. 276; p. 498.
Aiken, Edward L. (See Aylsworth, J. W., and Aiken.)
Ainge, George H., Springfield, Ohio. Tool for testing spark-plugs. No. 1,345,337; July 6; v. 276; p. 3.
Akimoff, Nicholas W., Philadelphia, Pa., assignor to Vibration Specialty Company. Shaft-support for testing purposes. No. 1,347,316; July 20; v. 276; p. 513.
Aktiebolaget Karlstads Mekaniska Verkstad. (See Wagner, Rudolf E., assignor.)
Aktiebolaget Ljungströms Angturbin. (See Ljungström, Birger, assignor.)
Aktiebolaget Svenska, Kullagerfabriken. See Wingquist S. G., and Fjellman, assignors.)
Alberger Gas Engine Company. (See Bogart, John A., assignor.) (Reissue.)
Alberico, Antonio, Joliet, Ill. Aeroplane. No. 1,346,107; July 13; v. 276; p. 216.
Albinson, Alvin, Minneapolis, Minn. Plaster gage and reinforcement. No. 1,346,437; July 13; v. 276; p. 281.
Albright, Andrew, Jr. (See Golly, Louis.)
Alexander Brothers. (See Barker, A. E., assignor.)
Alexander, George H. (See Nash, R. J., and Alexander.)
Alexis, Henry F., and M. Olson, Fishlake, Minn. Pump-jack. No. 1,345,980; July 6; v. 276; p. 129.
Allbright-Nell Co. (See Kohlhepp, John W., assignor.)
Allee, William L., Topeka, Kans. Brace. No. 1,346,736; July 13; v. 276; p. 340.
Allen, Charles L., Pittsburgh, Pa. Toy firearm. No. 1,347,433; July 20; v. 276; p. 536.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,346,102; July 13; v. 276; p. 215.
Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company. Tension-controlling mechanism for sewing-machines. No. 1,346,103; July 13; v. 276; p. 215.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Mechanism for clipping holes in sheet material. No. 1,347,486; July 27; v. 276; p. 603.
Allen, James M., assignor to J. M. Allen, F. P. Smith, and F. D. Tucker, trustees, St. Louis, Mo. Electrode for secondary or storage batteries. No. 1,347,832; July 27; v. 276; p. 672.
Allen, James M., *et al.*, trustees. (See Allen, J. M., Smith, and Tucker.)
Allen, John D. (See Chandler, Lee, assignor.)
Allen, Newton, Lyons, Oreg. Saw-gage. No. 1,345,339; July 6; v. 276; p. 3.
Allen, Robert, Caversham, England. Gun-mounting for use on aircraft. No. 1,348,072; July 27; v. 276; p. 721.
Allen, Scott E., *et al.* (See Lewis, Jesse D., assignor.)
Allen, Victor M., Shinglehouse, Pa. Combined ventilator and shade. No. 1,346,800; July 13; v. 276; p. 354.
Allis-Chalmers Mfg. Company. (See Baudisch, Hans, assignor.)
Allison, Joseph K., Iowa Falls, Iowa. Pneumatic necktie. No. 1,347,359; July 20; v. 276; p. 522.
Allyn, Glenn H., Madison Lake, Minn. Road-drag. No. 1,347,485; July 27; v. 276; p. 603.
Allyne, Edmund E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion motor. No. 1,347,475; July 20; v. 276; p. 544.
Allyne, Edmund E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Making cylinders for internal-combustion engines. No. 1,347,476; July 20; v. 276; p. 544.
Allyne, Edmund E., Cleveland, Ohio, and J. W. Collins, Detroit, Mich., assignors to The Aluminum Castings Company, Cleveland, Ohio. Motor-cylinder and making same. No. 1,347,477; July 20; v. 276; p. 544.
Almy, Marie P., Brooklyn, N. Y. Portable screen. No. 1,348,073; July 27; v. 276; p. 721.
Alphin, Gilbert E., Norwood, N. C. Curtain-rod and shade-roller support. No. 1,345,340; July 6; v. 276; p. 3.
Alphy, Harry, *et al.* (See Tullis, John T., assignor.)
Alsup, J. T., *et al.* (See Johnson, Albert S., assignor.)
Altick, Harold K., Dayton, Ohio. Automatic gear-shift for automobiles. No. 1,346,151; July 13; v. 276; p. 224.
Altman, Harvey P., Findlay, Ohio. Auxiliary spark-gap. No. 1,346,522; July 13; v. 276; p. 297.
Aluminum Castings Company, The. (See Allyne, E. E., and Collins, assignors.)
Aluminum Castings Company, The. (See Allyne, Edmund E., assignor.)
Aluminum Castings Company, The. (See Diamond, James E., assignor.)
Aluminum Castings Company, The. (See Jeffries, Zay, assignor.)
Ambrose, Robert L., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mounting for drills. No. 1,345,731; July 6; v. 276; p. 79.
American Automatic Connector Company, The. (See Barber, Martin A., assignor.)
American Clearing Company, The. (See Barber, Harry E., assignor.)
American Fire Prevention Bureau. (See Derby, J. H., and Clayton, assignors.)
American Hardware Corporation, The. (See Teich, Ernest L., assignor.)
American Hoist & Derrick Co. (See Crosby, Oliver, assignor.)
American Linen Fibre Company. (See Cooke, Clayton G., assignor.)
American Manganese Steel Company. (See Rush, Fred O., assignor.)
American Metal Cap Company. (See Hammer, Charles, assignor.)
American Meter Company. (See Lane, George A., assignor.)
American Optical Company. (See Arnold, Arthur A., assignor.)

American Optical Company. (See Bugbee, L. W., and Tillyer, assignors.)
American Optical Company. (See Bugbee, Lucian W., assignor.)
American Optical Company. (See Day, George H., assignor.)
American Optical Company. (See Haynes, Charles M. assignor.)
American Optical Company. (See Herbert, Pitt H., assignor.)
American Optical Company. (See Tillyer, E. D., and Bugbee, assignors.)
American Potash Corporation. (See Charlton, Harry W. assignor.)
American Sales Book Company. (See Pringle, William A., assignor.)
American Steel Foundries. (See Lamont, John A., assignor.)
American Telephone and Telegraph Company. (See Martin, William H., assignor.)
American Tobacco Company. (See Williamson, J. E., Popken, and Vale, assignors.)
American Vulcanized Fibre Co. (See Pierce, James F., assignor.)
American Warp Drawing Machine Company. (See Lea, Charles, assignor.)
Ames, Elmer F. (See Gibson, H. O., and Ames.)
Amey, George H., Fresno, Calif. Hospital bed-mattress. No. 1,347,666; July 27; v. 276; p. 639.
Amos, Ora and R., and E. A. McKee, Edinburg, Ind. Loading and hauling automobile-truck. No. 1,346,152; July 13; v. 276; p. 224.
Amos, Roy. (See Amos, Ora and R., and McKee.)
Anchor Cap & Closure Corporation. (See White, William P., assignor.
Anders, Hanns R., Perth Amboy, N. J., assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y Method of and apparatus for treating goods with fluids No. 1,345,341; July 6; v. 276; p. 3.
Andersen, Charles M., Denver, Colo. Cultivator. No. 1,347,926; July 27; v. 276; p. 691.
Andresen, Herman P., Chicago, Ill. Crusher. No. 1,346,871; July 20; v. 276; p. 425.
Andresen, Herman P., Chicago, Ill. Washing-machine. No. 1,347,667; July 27; v. 276; p. 639.
Anderson, Albert R. (See Anderson, John W., Jr., and A. R.)
Anderson, Arnold L., Attleboro, Mass. Soft-collar holder. No. 1,347,983; July 27; v. 276; p. 702.
Anderson, Carl E., Maywood, Ill. Window-frame. No 1,345,471; July 6; v. 276; p. 28.
Anderson Company, The. (See Anderson, John W., Jr., and A. R., assignors.)
Anderson, John W., Jr., Mishawaka, Ind., and A. R. Anderson, Chicago, Ill., assignors to The Anderson Company, South Bend, Ind. Combined motor and fuel control. No. 1,346,477; July 13; v. 276; p. 288.
Anderson, Sigurd E., Des Moines, Iowa. Cement-stave machine. No. 1,346,779; July 13; v. 276; p. 349.
Andreau, Roland L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Oxidizing isoborneol to camphor. No. 1,347,071; July 20; v. 276; p. 465.
Andrews, Edward F., Chicago, and R. E. Acre, Wheaton, assignors to Universal Engineering Company, Maywood, Ill. Brush-rigging for dynamo-electric machines. No. 1,346,108; July 13; v. 276; p. 216.
Angle, Edward H., Pasadena, Calif. Orthodontic implement. No. 1,346,584; July 13; v. 276; p. 310.
Anheuser, Ernst, Racine, Wis. File or brush holder. No 1,345,472; July 6; v. 276; p. 29.
Animated Picture Products Company. (See Saalburg, Charles W., assignor.)
Annable, Henry W. C., Egham, England. Separation of magnesium from compounds and mixtures of magnesium and calcium carbonates. No. 1,347,610; July 27; v. 276; p. 628.
Anthony, Alois, Baltimore, Md. Portable clamp. No. 1,347,360; July 20; v. 276; p. 522.
Antoine, Alfred D., Chicago, and C. C. Travis, Evanston Ill., assignors to Advance Machine Co., Chicago, Ill Check-detector for check-actuated machines. (Reissue.) No. 14,905; July 6; v. 276; p. 153.
Appelbaum, Alan I., assignor to The Import and By Products Company, Incorporated, Trenton, N. J. Sulfur color and manufacturing same from aloe resin. No. 1,346,153; July 13; v. 276; p. 224.
Appelbaum, Alan I., assignor to The Import and By Products Company, Incorporated, Trenton, N. J. Sulfur color and manufacturing same from aloes. No. 1,346,154; July 13; v. 276; p. 224.
Appleman, John P. (See Cissel, G. W., and Appleman.)
Apsley Rubber Company. (See Dunbar, Ernest W., assignor.)
Arenberg, Albert L., Chicago, Ill. Vehicle-lamp. No. 1,347,886; July 27; v. 276; p. 683.
Armstrong, Louis E., and H. B. Brockenbrough, assignors to Plymouth Gypsum Company, Fort Dodge, Iowa. Plaster-board. No. 1,347,487; July 27; v. 276; p. 603.
Armstrong, Sir W. G., Whitworth & Company. (See Le Mesurier, Louis J., assignor.)
Arnold, Arthur A., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,347,140; July 20; v. 276; p. 478.
Arnold, George A., Irwin, and E. J. Gross, Trafford, Pa. Resilient tire. No. 1,346,155; July 13; v. 276; p. 225.
Arnold, John O., Sheffield, England. High-speed steel. No. 1,345,732; July 6; v. 276; p. 79.
Arnold Machine Co. (See Clipsham, K. M., and Jackson, Jr., assignors.)
Arnold Print Works. (See Jones, Samuel M., assignor.)
Arnold, Stanley B., Chicago, Ill. Valve. No. 1,347,488; July 27; v. 276; p. 603.
Aronson, Louis V., Newark, N. J. Temperature-indicating device for cooling systems for internal-combustion engines. No. 1,347,317; July 20; v. 276; p. 513.
Aronne, Louis. (See Rogati, A., and Aronne.)
Art In Buttons. (See Eby, Philip, assignor.)
Arter, Leroy H., Warren, Ohio. Shoe-shining cabinet. No. 1,346,585; July 13; v. 276; p. 310.
Asbestos Protected Metal Company. (See Hamill, James, assignor.)
Aseptic Service Company. (See Rees, Warren C., assignor.)
Ashby, Sydney G. (See Barningham, V., and Ashby.)
Ashcroft Manufacturing Company, The. (See Crocker, Ernest B., assignor.)
Ashton, Hannah, executrix. (See Ashton, Orrell.)
Ashton, Orrell, deceased; H. Ashton, executrix, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-tip-measuring mechanism. No. 1,346,156; July 13; v. 276; p. 225.
Astin, Ernest S., assignor to The Liberty Tool Company, Baltimore, Md. Holder for drilling and riveting tools. No. 1,348,074; July 27; v. 276; p. 721.
Astley, Robert, Boston, Mass. Folding device. No. 1,346,109; July 13; v. 276; p. 216.
Aston, Albert A., Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fasteners. No. 1,346,157; July 13; v. 276; p. 225.
Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Hot-metal ladle-car. No. 1,347,984; July 27; v. 276; p. 702.
Athens Bindery Company, The. (See Crippen, Henry M., assignor.)
Atkinson, Arthur F. (See Ullman, E. B., Simmonds, and Atkinson.)
Atkinson, Lloyd S., Los Angeles, Calif. Tire for vehicle-wheels. No. 1,346,074; July 6; v. 276; p. 148.
Atteberry, William A., assignor of one-fourth to O. A. Sewell and one-fourth to P. A. Fox, Coweta, Okla. Valve. No. 1,346,737; July 13; v. 276; p. 340.
Atwood, Harry A., Milwaukee, Wis. Chair. No. 1,346,110; July 13; v. 276; p. 216.
Atwood, Harry A., Milwaukee, Wis. Chair. No. 1,346,932; July 20; v. 276; p. 437.
Augustine, William F., Chicago, Ill. Hot-water and ice bandage. No. 1,345,906; July 6; v. 276; p. 114.
Aurora Steel Products Company. (See Fohn, Adolf E., assignor.)
Auto-Ordnance Corporation. (See Payne, Oscar V., assignor.)
Automatic Electric Company. (See Jacobsen, Emil, assignor.)
Automatic Electric Company. (See Martin, Talbot G., assignor.)
Automatic Electric Company. (See Yanochowski, George A., assignor.)
Autosales Corporation. (See Grover, A. D., and Barber, assignors.) (Reissue.)
Avery, David, and R. T. D. Williams, Risdon, Hobart, Tasmania, assignors to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Treatment of zinc solutions preparatory to the recovery of zinc by electrodeposition. No. 1,347,200; July 20; v. 276; p. 489.
Avery, Seth S., Pleasant Lake, Ind. Air-pump. No. 1,347,434; July 20; v. 276; p. 536.
Axlirod, Meyer, assignor to Safety Machinery Corporation, New York, N. Y. Bearing for clutch and pulley mechanism. No. 1,347,985; July 27; v. 276; p. 703.
Aylsworth, Adelaide M., executors, *et al.* (See Aylsworth, J. W., and Aiken.)
Aylsworth, Jonas W., deceased, A. M. Aylsworth and Savings Investment and Trust Company, executors, and E. L. Aiken, East Orange, N. J., assignors, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Producing sound-records. No. 1,347,668; July 27; v. 276; p. 639.
Ayres, Charles S., Riverton, N. J. Sight-indicator for dispensing-pumps. No. 1,345,733; July 6; v. 275; p. 79.
B & D Manufacturing Company *et al.* (See Howes, Willis E., assignor.)
Babcock, Courtlandt W., Stonington, Conn. Chart-holder, No. 1,346,691; July 13; v. 276; p. 331.
Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
Baer, Max, New York, N. Y. Bronze powder and making same. No. 1,347,927; July 27; v. 276; p. 691.
Baer, Max, New York, N. Y. Bronze powder. No. 1,347,928; July 27; v. 276; p. 691.
Baer, Samuel H. (See George, Alexander W., assignor.)
Baer, Sylvan T., New York, N. Y. Sanitary appliance for telephone-transmitters, &c. No. 1,345,734; July 6; v. 276; p. 80.

Bagshaw, Charles M., assignor to The Gimson Shoe Machinery Company, Limited, Leicester, England. Pulling-over and like machine. No. 1,347,929; July 27; v. 276; p. 691.
Bailey, Charles A., Chicago, Ill. Coupling. No. 1,345,735; July 6; v. 276; p. 80.
Bailey, Charles W., and J. H. Stewart, Lynn, Mass.; said Bailey assignor to said Stewart. Cutting-machine. No. 1,346,626; July 13; v. 276; p. 318.
Bailey, Layman W., Princeton, W. Va. Rail-joint. No. 1,348,075; July 27; v. 276; p. 721.
Bailey, Robert R., Chicago, Ill. Cigar-drill. No. 1,345,736; July 6; v. 276; p. 80.
Bailey, Robert R., Chicago, Ill. Razor-blade holder. No. 1,345,737; July 6; v. 276; p. 80.
Bailey, Stephen L. (See Douglas, W. W., and Bailey.)
Baily, Thaddeus F., and F. T. Cope, Alliance, Ohio. Continuous tire-vulcanizing machine. No. 1,346,158; July 13; v. 276; p. 225.
Baits, Stuart G. (See Fekete, S. I., and Baits.)
Baker, Cloice B., assignor of one-half to W. Bawden, St. Louis, Mo. Handrail-column. No. 1,345,338; July 6; v. 276; p. 3.
Baker, Ebridge, assignor of one-fourth to E. P. Tucker, one-fourth to G. W. Tackabury, and one-fourth to G. D. Robertson, Los Angeles, Calif. Harvesting-machine. No. 1,346,159; July 13; v. 276; p. 225.
Baker-Vawter Company. (See Manny, Fred L., assignor.)
Bakley, Edward, Chatham, N. J. Pipe-lock. No. 1,347,833; July 27; v. 276; p. 672.
Balaguer, Andres Marianao, Habana, Cuba. Resilient tire for vehicle-wheels. No. 1,346,692; July 13; v. 276; p. 331.
Ballard, Charles S., assignee. (See Washburn, Howard L., assignor.)
Ballinger & Perrott. (See Ballinger, W. F., and Shivers, assignors.)
Ballinger, Walter F., and C. H. Shivers, Woodbury, N. J., assignors to Ballinger & Perrott, Philadelphia, Pa. Roof structure. No. 1,347,669; July 27; v. 276; p. 639.
Ballou, B. A., & Co. (See Lahey, Edgar C., assignor.)
Ballou, Frank H., Newark, Ohio. Product assorting and distributing machine. No. 1,346,438; July 13; v. 276; p. 281.
Baloc, John, Hazleton, Pa. Door-operating mechanism. No. 1,348,076; July 27; v. 276; p. 721.
Balsa Refrigerator Corporation. (See Kramer, Gustav A., assignor.)
Baltensperger, Elizabeth A. (See Thomas, August, assignor.)
Bancroft, Samuel M. (See Evans, W. C., and Bancroft.)
Bank, Isaac, Hammonton, N. J. Sleeve-former. No. 1,345,739; July 6; v. 276; p. 80.
Barber, Ada S. (See Barber, William, assignor.)
Barber, Earl E. (See Grover, A. D., and Barber.) (Reissue.)
Barber, George A., Chicago, Ill., assignor to J. V. McManis, Kirksville, Mo. Table-supporting mechanism. No. 1,346,586; July 13; v. 276; p. 310.
Barber, Harry E., Green Cove Springs, Fla., assignor, by mesne assignments, to The American Clearing Company, Hamilton, Ohio. Anchor for stump-pulling machines and the like. No. 1,346,933; July 20; v. 276; p. 438.
Barber, John C., Chicago, Ill. Car-truck. No. 1,347,887; July 27; v. 276; p. 684.
Barber, Martin A., assignor to The American Automatic Connector Company, Cleveland, Ohio. Pipe-union. No. 1,347,834; July 27; v. 276; p. 673.
Barber, Martin A., assignor to The American Automatic Connector Company, Cleveland, Ohio. Automatic train-pipe coupling. No. 1,347,835; July 27; v. 276; p. 673.
Barber, Martin A., assignor to The American Automatic Connector Company, Cleveland, Ohio. Train-pipe connector. No. 1,347,836; July 27; v. 276; p. 673.
Barber, Martin A., assignor to The American Automatic Connector Company, Cleveland, Ohio. Automatic train-pipe coupling. No. 1,347,986; July 27; v. 276; p. 703.
Barber, William, New York, N. Y. Explosive-engine. No. 1,346,805; July 20; v. 276; p. 413.
Barber, William, New York, assignor to A. S. Barber, Brooklyn, N. Y. Tire-tread. No. 1,346,627; July 13; v. 276; p. 318.
Bard, Francis N., Highland Park, Ill. Composite non-metallic gasket. No. 1,346,523; July 13; v. 276; p. 298.
Bard, Francis N., Highland Park, Ill. Composite non-metallic gasket. No. 1,346,524; July 13; v. 276; p. 298.
Bard, Francis N., Highland Park, Ill. Gasket for flexible joints. No. 1,347,470; July 20; v. 276; p. 543.
Barker, Alpheus E., assignor to Alexander Brothers, Philadelphia, Pa. Machine for making round belting. No. 1,345,907; July 6; v. 276; p. 114.
Barker, Eugene G., Glenwood, Iowa. Corn-harvester. No. 1,345,527; July 6; v. 276; p. 39.
Barling, Walter H., London, England. Fuselage. No. 1,347,670; July 27; v. 276; p. 640.
Barlow, Samuel E., Denver, Colo. Power-operated tongs. No. 1,346,160; July 13; v. 276; p. 226.
Barnard, Charles S., assignor to The Bassick Co., Bridgeport, Conn. Caster-socket. No. 1,345,908; July 6; v. 276; p. 114.
Barnes & Kobert Manufacturing Company, The. (See Benedict, Paul M., assignor.)
Barnett, Otto R. (See Scott, John M., assignor.)
Barniak, Feliks. Rosemont, W. Va. Railway-tie. No. 1,345,572; July 6; v. 276; p. 48.
Barningham, Vincent, Reading, and S. G. Ashby, Edenbridge, England. Automatic brake. No. 1,346,628; July 13; v. 276; p. 318.
Barnstead, Sidney G., Boston, Mass. Receptacle. No. 1,348,134; July 27; v. 276; p. 732.
Barr Company, The. (See Barr, Samuel C., assignor.)
Barr, Samuel C., Chillicothe, Ohio, assignor to The Barr Company. Eye-testing mechanism. No. 1,345,573; July 6; v. 276; p. 48.
Barrett Company, The. (See Howell, Kenneth B., assignor.)
Barrett Company, The. (See Rothermel, Curtis J., assignor.)
Bartels, Carl. (See Mosler, M., and Bartels.)
Bartholomew, Fred R. (See Vierling, Bartholomew, and Smith.)
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Washing-machine cylinder. No. 1,346,291; July 13; v. 276; p. 252.
Bartholomew, William, Chicago, Ill., assignor to Troy Laundry Manufacturing Company. Safety mechanism for ironing-machines. No. 1,346,872; July 20; v. 276; p. 425.
Bartholomew, William, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Heat-prevention means for extractors. No. 1,346,873; July 20; v. 276; p. 426.
Bartram, George C., Massapequa, assignor to United Concrete Pipe Co., New York, N. Y. Reinforced-concrete pipe. No. 1,346,629; July 13; v. 276; p. 319.
Bartlett, George H., San Francisco, Calif. Interfolding-machine. No. 1,347,242; July 20; v. 276; p. 498.
Bartlett, Omar, and H. Fryer, Lewiston, Idaho. Overhead transit apparatus. No. 1,347,482; July 20; v. 276; p. 546.
Basch, David, Schenectady, N. Y., assignor to General Electric Company. Protective means for systems of distribution. No. 1,347,772; July 27; v. 276; p. 661.
Bashara, Samuel F., Houston, Tex. Automatic signal-actuating mechanism for railways. No. 1,346,934; July 20; v. 276; p. 438.
Basquin, Olin H., Evanston, Ill., assignor to Haskelite Manufacturing Corporation. Bent ply-wood and bending same. No. 1,346,161; July 13; v. 276; p. 226.
Bass, Ernest C., New York, N. Y. Gun-camera. No. 1,345,981; July 6; v. 276; p. 129.
Bassett, William H., East Orange, N. J., assignor to Powers Accounting Machine Company, New York, N. Y. Statistical-record card. No. 1,346,162; July 13; v. 276; p. 226.
Bassick Co., The. (See Barnard, Charles S., assignor.)
Bassick Company, The. (See Smith, Friend W., assignor.)
Bastian, Charles O., London, England. Means for positively indicating the condition of steel during heat treatment. No. 1,346,693; July 13; v. 276; p. 331.
Batchelder, Frank R. (See Lethern, Albert A., assignor.)
Batchelor, Jamie H., assignor to C. Espy, Savannah, Ga. Vaporizer. No. 1,347,435; July 20; v. 276; p. 537.
Bateman, Samuel L., assignor of one-half to G. A. Lobsitz, Newark, N. J. Sieve. No. 1,347,489; July 27; v. 276; p. 604.
Baudisch, Hans, Vienna, Austria, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic process of and apparatus for converting energy. No. 1,347,578; July 27; v. 276; p. 622.
Bauersfeld, Walther, assignor to Firm of Carl Zeiss, Jena, Germany. Telemeter. No. 1,347,571; July 27; v. 276; p. 620.
Baule, Marie E. A., Lyon, France. Electric impulsion-motor. No. 1,347,002; July 20; v. 276; p. 451.
Baum, David, Livermore Falls, Me. Glove-turning machine. No. 1,348,077; July 27; v. 276; p. 722.
Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Condenser. No. 1,347,436; July 20; v. 276; p. 537.
Baumann, Karl, Urmston, England, H. L. Guy and J. F. F. Winning, Manchester, England, assignors to The British Westinghouse and Electric Company, Limited. Blade for fluid-pressure turbines. No. 1,347,003; July 20; v. 276; p. 452.
Baumgartl, Leroy, Chicago, Ill. Automobile-bumper. No. 1,346,478; July 13; v. 276; p. 289.
Baush Machine Tool Company. (See Cannell, William, assignor.)
Bawden, William. (See Baker, Cloice B., assignor.)
Bayles, Robert A., Stockton, Calif. Ditch-digger. No. 1,346,075; July 6; v. 276; p. 148.
Bayles, Ernest A., and H. Higham, Helsby, England. Electrical condenser. No. 1,346,694; July 13; v. 276; p. 332.
Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Roller-bearing construction. No. 1,346,163; July 13; v. 276; p. 226.
Bayless, Isabel L., Washington, D. C. Cooking device. No. 1,345,824; July 6; v. 276; p. 97.
Beach, Charles P., Littleton, N. H. Apparatus for rendering worn bushings usable. No. 1,347,490; July 27; v. 276; p. 604.
Beadle, Blanche E., Springfield, Mass. Hair-support. No. 1,347,987; July 27; v. 276; p. 703.
Beall, Fletcher W., Jr., McCalla, Ala. Spark-plug. No. 1,347,437; July 20; v. 276; p. 537.

Beall, Walter W., Philadelphia, Pa. Strainer. No. 1,345,342; July 6; v. 276; p. 4.
Beardsley, Edson L., assignor to The Loomis Beardsley Mfg. Company, Columbus, Ohio. Valve-grinding tool. No. 1,347,243; July 20; v. 276; p. 498.
Beau, Mathew, Port Colborne, Ontario, Canada. Sleigh. No. 1,345,825; July 6; v. 276; p. 97.
Beaupré, Enid, Albany, N. Y. Game apparatus. No. 1,346,738; July 13; v. 276; p. 340.
Beck, Friedrich C., Seuzach, near Winterthur, Switzerland. Artificial hand. No. 1,347,004; July 20; v. 276; p. 452.
Becker, Robert A., assignor to C. Tremain, Poughkeepsie, N. Y. T, Y, and L connector. No. 1,345,982; July 6; v. 276; p. 130.
Becklund, John A., Centralia, Wash. Steam turbine-engine. No. 1,346,202; July 13; v. 276; p. 253.
Bedard, Joseph, Columbus, Ohio. Protector for windshields. No. 1,345,826; July 6; v. 276; p. 98.
Bedard, Phillas M., Springfield, Mass. Tool-post. No. 1,347,988; July 27; v. 276; p. 703.
Beddingfield, John A., assignor of one-half to R. D. Feagin, Macon, Ga. Automobile-tire rim. No. 1,345,659; July 6; v. 276; p. 65.
Beecher, Milton F. (See Purdy, R. C., and Beecher.)
Beebe, Mary F., Carthage, Ill. Anti-vermin perch. No. 1,347,930; July 27; v. 276; p. 692.
Beetem, Frank G., Washington, D. C. Binding-post. No. 1,346,525; July 13; v. 276; p. 298.
Behrens, Hugo E., Fargo, N. D. Grain-separator. No. 1,346,630; July 13; v. 276; p. 319.
Beidler, George C., Rochester, N. Y. Method of and device for developing films. No. 1,346,780; July 13; v. 276; p. 349.
Beithon, Gilbert G., Bismarck, N. D. Toy. No. 1,345,343; July 6; v. 276; p. 4.
Beitman, Albert B., assignor to The Outlook Company, Cleveland, Ohio. Bracket for windshield-cleaners. No. 1,347,201; July 20; v. 276; p. 480.
Belknap, Charles B. (See McOmber, Loren W., assignor.)
Bell, Robert J., assignor to Bell's Auto Memo Co., Incorporated, Richmond, Va. Memorandum device. No. 1,346,479; July 13; v. 276; p. 289.
Bell, William E., assignor to The Bell Wrench Company, Tulsa, Okla. Ratchet pipe-wrench. No. 1,345,983; July 6; v. 276; p. 130.
Bell Wrench Company, The. (See Bell, William E., assignor.)
Bell's Auto Memo Co. (See Bell, Robert J., assignor.)
Bellamy, Harry T., Oak Park, Ill., and B. T. Sweely, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Resistance material. No. 1,346,874; July 20; v. 276; p. 426.
Belshaw Engine Co. (See Belshaw, Walter, assignor.)
Belshaw, Walter, assignor of four-fifths to Belshaw Engine Co., Everett, Wash. Planetary eccentric system of gearing. No. 1,347,671; July 27; v. 276; p. 640.
Belz, Edward P., Athens, Wis. Harness trace-chain. No. 1,346,439; July 13; v. 276; p. 281.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,345,576; July 6; v. 276; p. 49.
Bender, George P., New York, N. Y. Flushing device. No. 1,347,318; July 20; v. 276; p. 514.
Benedict, Emory J., and M. C. Frost, Memphis, Tenn. Resilient tire. No. 1,346,695; July 13; v. 276; p. 332.
Benedict, Paul M., New Haven, assignor to The Barnes & Kobert Manufacturing Company, Milldale, Conn. Electric riveting-machine. No. 1,346,631; July 13; v. 276; p. 319.
Benham, Edgar M. (See Benham, William T. and E. M.)
Benham, Edgar M., Norwood, Ohio, assignor, by mesne assignments, to The Mosler Lock Company, Cincinnati, Ohio. Combination-lock. No. 1,345,574; July 6; v. 276; p. 49.
Benham, William T. and E. M., Norwood, assignors, by mesne assignments, to The Mosler Lock Company, Cincinnati, Ohio. Combination-lock. No. 1,345,575; July 6; v. 276; p. 49.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Maxwell W., *et al.* (See Hadrich, George, assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Water-tight connection for electrical conductors. No. 1,345,473; July 6; v. 276; p. 29.
Bennet, G. Henry, Springdale, assignor of one-half to W. Hruza, Livingston, Mont. Hay-cocker. No. 1,347,141; July 20; v. 276; p. 478.
Bennett, Alan M., assignor of one-half to C. H. Florandin, Westfield, N. J. Arc-welding generator. No. 1,346,164; July 13; v. 276; p. 226.
Bennett, Charles H., Mount Morris, N. Y. Toothpick-dispensing device. No. 1,345,984; July 6; v. 276; p. 130.
Bennett, Frank S., Philadelphia, Pa. Inner-tube covering for tires. No. 1,346,632; July 13; v. 276; p. 319.
Bennett, Lu Ella, Sutherland, Mont. Stove-leg. No. 1,346,526; July 13; v. 276; p. 298.
Benoit, Leon, and P. F. King, Vancouver, British Columbia, Canada. Wrench. No. 1,347,491; July 27; v. 276; p. 604.
Benson, Ralph W. (See Lacerda, Harry A., assignor.)
Bentzel, David E., York, Pa. Gate. No. 1,347,438; July 20; v. 276; p. 537.
Bergen, Harry S., Toledo, Ohio, assignor, by mesne assignments, to Toledo Scale Company, Newark, N. J. Automatic scale with price and weight printing attachment. No. 1,347,572; July 27; v. 276; p. 621.
Bergeron, Arthur J., New York, N. Y. Rope-lock for pulleys. No. 1,346,696; July 13; v. 276; p. 332.
Bergman, Simon, New York, N. Y. Carton for cups and similar articles. No. 1,346,792; July 13; v. 276; p. 352.
Bergve, Einar, Notodden, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Decomposition of alkali-metal minerals. No. 1,346,365; July 13; v. 276; p. 266.
Berkshire, William A., Ocheyedan, Iowa. Silo-brace. No. 1,345,985; July 6; v. 276; p. 130.
Bernstein, Peter, Boston, Mass. Portable gas-heater. No. 1,346,587; July 13; v. 276; p. 310.
Bernat, Raoul, Bordeaux, France. Heavy motor-tractor. No. 1,347,244; July 20; v. 276; p. 498.
Bernert, George and J., assignors to Bernert Manufacturing Company, Milwaukee, Wis. Feed-drum for pneumatic elevators. No. 1,346,293; July 13; v. 276; p. 253.
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Bernert Manufacturing Company. (See Bernert, George and J., assignors.)
Bernhard, Jakob, Hasle, near Ruegsau, and A. Meister, Ruegsau, Switzerland. Pneumatic hammer. No. 1,346,166; July 13; v. 276; p. 227.
Berne, James P., *et al.* (See Shields, George F., assignor.)
Bernheim, Eugene C., Southbridge, Mass. Eyeglasses. No. 1,347,072; July 20; v. 276; p. 465.
Berrenberg, Reinold, Boston, Mass. Apparatus for producing high pressures. No. 1,346,165; July 13; v. 276; p. 226.
Best, Millard W., Wentworth, Ontario, Canada. Weather stripping for windows. No. 1,347,672; July 27; v. 276; p. 640.
Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
Betts, Albert, *et al.* (See Tullis, John T., assignor.)
Betz, Charles F., St. Louis, Mo. Pastry-feeding mechanism for pastry-cone machines. No. 1,347,073; July 20; v. 276; p. 466.
Betzoldt, Theodore C., *et al.* (See Hadrich, George, assignor.)
Bibb, Dandridge H., Aldwych, London, England. Briquet-molding machine. No. 1,347,361; July 20; v. 276; p. 522.
Bibb, George F., Troy, N. Y. Combined coal and gas range. No. 1,348,078; July 27; v. 276; p. 722.
Biddison, Pascal M., Columbus, and H. T. Boyd, Homer, Ohio. Distilling petroleum. No. 1,345,740; July 6; v. 276; p. 80.
Biette, Henry C., assignor of one-half to J. Thomson and one-half to P. C. Wassaier, Buffalo, N. Y. Combined coffee-percolator and tea-steeper. No. 1,347,142; July 20; v. 276; p. 478.
Bini, Francesco, Milan, Italy. Device for the prevention of pocket-picking. No. 1,347,005; July 20; v. 276; p. 452.
Bir, Herman M., Huntington, Ind. Tool for applying metal ribbon-leaf. No. 1,348,079; July 27; v. 276; p. 722.
Bird, Richard E., Wichita, Kans. Fuel-line lock. No. 1,346,480; July 13; v. 276; p. 289.
Bisbing, Harry O., Detroit, Mich. Glass-molding machine. No. 1,347,202; July 20; v. 276; p. 490.
Bischoff, Herman, assignor to Defiance Button Machine Co., New York, N. Y. Plaiting-machine. No. 1,345,474 July 6; v. 276; p. 29.
Bishop, Lloyd C., South Bend, Ind. Photographic objective. No. 1,347,673; July 27; v. 276; p. 640.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Lamp-shade holder. No. 1,345,741; July 6 v. 276; p. 81.
Bissell, Walter L., Cleveland, Ohio. School-room checker. No. 1,347,888; July 27; v. 276; p. 684.
Bixby, Chancy E. (See Butman, Lewis F., assignor.)
Blackstone, Elmer E. (See Riley, J. J., and Blackstone.)
Blackstone, George M. (See Carter, Frank and E., assignors.)
Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet guide adjustment. No. 1,345,742; July 6; v. 276; p. 81.
Blair, Robert S. (See Washburn, Edwin C., assignor.)
Blake, Charles C., Brookline, Mass. Sewing-machine. No. 1,347,889; July 27; v. 276; p. 684.
Blake & Johnson Company, The. (See Duston, Ernest W., assignor.)
Blandford, George G., Herring Neck, Newfoundland. Adjustable bracket. No. 1,345,344; July 6; v. 276 p. 4.
Blaw-Knox Company. (See Venable, William M., assignor.)
Blenko, Walter J., Lancaster, Ohio. Support for fire-extinguishers. No. 1,347,611; July 27; v. 276; p. 628.
Blevins, David T. (See Lewis, W. K., and Blevins.)
Bloesinger, August, Akron, and F. D. Howe, Cuyahoga Falls, Ohio, assignors, by mesne assignments, to International Harvester Company. Drive-belt for pulleys. No. 1,347,674; July 27; v. 276; p. 640.
Bloom, Millard P., Mount Washington, Md. Piston-packing. No. 1,346,806; July 20; v. 276; p. 413.

Blount, Harry, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Means for grinding and slotting carbon disks and the like. No. 1,345,743; July 6; v. 276; p. 81.
Blume, Milton E., New York, N. Y. Copy-holder for typewriters. No. 1,345,986; July 6; v. 276; p. 130.
Boardman, Walter L., Decatur, Ill. Spark-plug cleaner. No. 1,347,573; July 27; v. 276; p. 621.
Boas, Andre, assignor to Societe Anonyme Des Engrenages Citroen, Paris, France. Mechanical screw-jack. No. 1,347,006; July 20; v. 276; p. 452.
Bock, Louis E. (See Meckert, F. A., and Bock.)
Bocking, Frederick W., Rifle, Colo. Cushion-support. No. 1,345,987; July 6; v. 276; p. 131.
Boden, Oscar J. (See Petersen, C. M., and Boden.)
Boedtcher, Franz A. Bergenfield, N. J. Combined locking and circuit-controlling device for double doors. No. 1,346,111; July 13; v. 276; p. 216.
Boehm, Rudolph A., assignor to Rickert-Shafter Company, Erie, Pa. Collapsible tap. No. 1,345,744; July 6; v. 276; p. 81.
Bogaerts, Hubert, Berlin-Halensee, Germany. Manufacturing reproduction of paintings, maps, wall-papers with relievo patterns and the like. No. 1,346,807; July 20; v. 276; p. 413.
Bogart, John A., Port Chester, assignor to Alberger Gas Engine Company, Buffalo, N. Y. Expansion-joint. (Reissue.) No. 14,906; July 6; v. 276; p. 153.
Bohannon, David D., Berkeley, Calif. Resilient wheel. No. 1,345,827; July 6; v. 276; p. 98.
Bohanon, Budd D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Tip-measuring apparatus. No. 1,346,167; July 13; v. 276; p. 227.
Bolger, Robert S. (See Masury, A. F., and Bolger.)
Bollinger, George W., Columbus, Ohio. Baking apparatus. No. 1,346,076; July 6; v. 276; p. 148.
Boltshauser, Conrad, assignor to Comp., Phoebus E. G., Zurich, Switzerland. Electric pocket-lamp. No. 1,346,104; July 13; v. 276; p. 215.
Bombardie, Charles H., South Bend, Ind., and P. F. Wegner, Chicago, Ill., assignors to Wirebounds Patents Company, Kittery, Me. Box. No. 1,347,675; July 27; v. 276; p. 641.
Bone, Roberto C., Managua, Nicaragua, assignor of one-half to M. A. Esteva, New York, N. Y. Substitute for linseed-oil and making same. No. 1,347,074; July 20; v. 276; p. 466.
Borough, Willard L., Fullerton, Calif. Combination rod-socket and overshot fishing-tool. No. 1,347,203; July 20; v. 276; p. 490.
Bosse, Charles O., Tacoma, Wash. Adjustable countersink. No. 1,346,105; July 13; v. 276; p. 216.
Bosse, William F., Stamford, Tex. Swingletree. No. 1,347,302; July 20; v. 276; p. 522.
Boswell, Fletcher O., Philadelphia, Pa. Automobile-steering-gear lock. No. 1,345,828; July 6; v. 276; p. 93.
Boswell, Fletcher O., Philadelphia, Pa. Compound rail and electrical conductor. No. 1,346,168; July 13; v. 276; p. 227.
Botts, Robert H., Parker, Ariz. Worm-screw. No. 1,347,802; July 27; v. 276; p. 606.
Boulton, William W. (See McClure, R. A., and Boulton.)
Bourdelles, Emile A. L., Paris, assignor to Societe Anonyme Des Etablissements Delaunay Belleville, St.-Denis, France. Ordnance. No. 1,347,803; July 27; v. 276; p. 666.
Bourge, Numa J., Erath, La. Railway-signal. No. 1,348,080; July 27; v. 276; p. 722.
Bousfield, John H. A., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Scale. No. 1,346,481; July 13; v. 276; p. 289.
Bowdish, Harry A., Eagle Pass, Tex. Speed-recorder. No. 1,347,676; July 27; v. 276; p. 641.
Bower, Harry A., Boston, Mass. Practice-drum. No. 1,346,588; July 13; v. 276; p. 310.
Bowers, Hiester A., Reading, Pa. Calculating-machine. No. 1,347,245; July 20; v. 276; p. 499.
Bowers, Thomas A., Brookline, Mass. Wire wheel. No. 1,347,837; July 27; v. 276; p. 673.
Bowes, John J., Jr., Pensacola, Fla. Tube-compressor. No. 1,347,931; July 27; v. 276; p. 692.
Bowman, Levi M., assignor of one-half to W. A. Smith, Tulsa, Okla. Means for and process of filtering petroleum products. No. 1,347,932; July 27; v. 276; p. 692.
Bowness, George A., Summerside, Prince Edward Island, Canada. Harness. No. 1,345,577; July 6; v. 276; p. 49.
Boyd, Hugh T. (See Biddison, P. M., and Boyd.)
Boyd, James K., Wilkinsburg, Pa. Compound rail. No. 1,346,394; July 13; v. 276; p. 272.
Boyd, Wyatt, Dayton, Ohio. Gas-engine. No. 1,345,345; July 6; v. 276; p. 4.
Boyle, Albert J., Baltimore, Md. Joint for concrete pipe. No. 1,345,829; July 6; v. 276; p. 98.
Boyle, John B., Croset, Va. Attachment for rocking-chairs. No. 1,345,745; July 6; v. 276; p. 82.
Brach, Emil J., Chicago, Ill. Confectionery-machine. No. 1,348,081; July 27; v. 276; p. 722.
Bradbury, Clifford C., Oak Park, Ill. Vacuum feed mechanism. No. 1,346,482; July 13; v. 276; p. 289.
Bradfield, Clyde C., Harbor Springs, Mich. Meter-support. No. 1,346,440; July 13; v. 276; p. 281.
Bradley Pulverizer Company. (See Gibson, W. A., and Needham, assignors.)
Bragdon, George W., Smyrna Mills, assignor of one-fourth to P. H. Tarbell and one-fourth to H. J. Tarbell, Merrill, Me. Sewing-machine. No. 1,346,169; July 13; v. 276; p. 227.
Brager, Arvid, and O. Lee, Kinosee, Alberta, Canada. Skee-brake. No. 1,345,988; July 6; v. 276; p. 131.
Brandenstein, M. J., & Co. (See Pisani, William H., assignor.)
Brandt, Fokko H. G., and G. K. Kreil, Kansas City, Mo. Adjustable stringer-support for scaffolds. No. 1,346,170; July 13; v. 276; p. 228.
Brandt, Herman, Fort Worth, Tex. Valve control for radiator drain-cocks. No. 1,347,612; July 27; v. 276; p. 628.
Bredenberg, Alfred, Champlain, N. Y., assignor of one-half to Sheridan Iron Works and one-half to T. W. and C. B. Sheridan Company. Intermittent-driving mechanism for book binding or covering machines. No. 1,347,492; July 27; v. 276; p. 604.
Bredlik, Vladimir, New York, N. Y. Purification of ammonium salts. No. 1,346,106; July 13; v. 276; p. 216.
Breguet, Louis, Velizy, France, assignor to Societe Anonyme Des Ateliers D'Aviation Louis Breguet, Velizy, Seine-et-Oise, France. Connection of tubes of dissimilar metals. No. 1,347,075; July 20; v. 276; p. 466.
Brennan, Lawrence, Red Deer, Alberta, Canada. Operating mechanism for pumps. No. 1,345,909; July 6; v. 276; p. 115.
Brenner, Richard M., Palisade, N. J. Race-game apparatus. No. 1,346,697; July 13; v. 276; p. 332.
Brensinger, Julius, Fairfield, Conn., assignor to Sanitary Can Machinery Company, Ellsworth, Me. Non-circular-can-cover-lining machine. No. 1,347,463; July 20; v. 276; p. 546.
Bressler, Robert E., Hammond, assignor to O. F. Jordon Company, East Chicago, Ind. Railroad-way construction and maintenance car. No. 1,347,677; July 27; v. 276; p. 641.
Brewer, Donald A., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Bow-socket. No. 1,347,678; July 27; v. 276; p. 641.
Brewer-Titchener Corporation, The. (See Brewer, Donald A., assignor.)
Brewster, Theodore A., St. Louis, Mo. Street-car truck. No. 1,345,528; July 6; v. 276; p. 40.
Brian, James C., Marbass, N. D. Seat for agricultural implements. No. 1,345,830; July 6; v. 276; p. 98.
Bridges, William H., assignor of one-fourth to M. W. Jennings and one-fourth to S. D. Hart, Cincinnati, Ohio. Cigar-holder. No. 1,347,204; July 20; v. 276; p. 490.
Brigel, Samuel G., assignor to J. M. Haverty, trustee, Pittsburgh, Pa. Method and apparatus for producing a combustible mixture. No. 1,346,935; July 20; v. 276; p. 438.
Briggs, Charles A. (See Cooper, Hamilton A., assignor.)
Bright, Graham, Wilkinsburg, H. F. Holy, Pittsburgh, and H. K. Hardcastle, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system. No. 1,347,890; July 27; v. 276; p. 684.
Brinker, Samuel N., Minneapolis, Minn. Car-brake. No. 1,346,171; July 13; v. 276; p. 228.
British Westinghouse Electric and Manufacturing Company, The. (See Baumann, Karl, assignor.)
British Westinghouse and Electric Company, The. (See Baumann, K., Guy, and Winning, assignors.)
British Westinghouse Electric and Manufacturing Company, The. (See Guy, Henry L., assignor.)
British Westinghouse Electric and Manufacturing Company, The. (See Scanes, Arthur E. L., assignor.)
Brix, Harold M., assignor to Sharp & Smith, Chicago, Ill. Veterinary float. No. 1,347,933; July 27; v. 276; p. 692.
Brock, Edward J. (See Treichel, A. R., and Brock.)
Brock, Frank P. (See Redman, L. V., Weith, and Brock.)
Brockenbrough, Hugh B. (See Armstrong, L. E., and Brockenbrough.)
Brockhaus, Herman A., Woodward, Okla. Building material. No. 1,348,082; July 27; v. 276; p. 723.
Brokaw-Eden Company. (See Settlage, Rudolph F., assignor.)
Brookfield, Douglas Holloway, London, England. Smelting-furnace. No. 1,346,527; July 13; v. 276; p. 298.
Brooks, J. B., and Company. (See Jenkins, Alexander H., assignor.)
Brown Barotype Company. (See Brown, Herbert E., assignor.)
Brown & Bigelow. (See Kristofek, Frank J., assignor.)
Brown, Carl E., Columbus, Ohio. Oil-burner. No. 1,347,007; July 20; v. 276; p. 452.
Brown, Charles F., South Ridge, Kans. Animal-feeder. No. 1,346,936; July 20; v. 276; p. 438.
Brown, Charles T. (See Hand, Edgar K., assignor.)
Brown, Clement, Birmingham, England. Apparatus for measuring the flow of liquids. No. 1,347,143; July 20; v. 276; p. 479.
Brown, Davis, Bucyrus, Ohio, assignor to R. C. Penfield, Chicago, Ill. Process of and apparatus for molding clay products. No. 1,347,484; July 20; v. 276; p. 546.
Brown, Edward R., Boston, Mass. Apparatus for cooling and dispensing beverages. No. 1,345,746; July 6; v. 276; p. 82.
Brown, Egbert B., assignor to O. W. Fort and H. R. Taylor, Los Angeles, Calif. Vehicle-tire. No. 1,347,679; July 27; v. 276; p. 642.

Brown, Edgar P., Madera, Calif. Grading-machine. No. 1,347,008; July 20; v. 276; p. 453.
Brown, Frederic H., Lebanon, N. H. Dental flask. No. 1,347,205; July 20; v. 276; p. 490.
Brown, Harry M., assignor to Spring Stopper Company, Brooklyn, N. Y. Glass-severing implement. No. 1,346,528; July 13; v. 276; p. 298.
Brown, Herbert E., Sterling, Ill., assignor, by mesne assignments, to Brown Barotype Company, Chicago, Ill. Barotype-machine. No. 1,345,660; July 6; v. 276; p. 65.
Brown, Horace P. (See Johnston, Clarance L., assignor.)
Brown, James D., Glasgow, Scotland. Display-rack. No. 1,345,831; July 6; v. 276; p. 98.
Brown, Joseph F., Wichita, Kans. Air or water pressure tank. No. 1,347,934; July 27; v. 276; p. 692.
Brown, Michael, New York, N. Y. Sadiron. No. 1,345,989; July 6; v. 276; p. 131.
Brown, Newman T., Seattle, Wash. Motor-car signal. No. 1,347,246; July 20; v. 276; p. 499.
Brown, Orlando W., Jr., Sanford, Me. Stepladder. No. 1,345,990; July 6; v. 276; p. 131.
Brown, Patrick B., Shenandoah, Pa. Power mine-shovel. No. 1,345,991; July 6; v. 276; p. 131.
Brown, Peter D., Kingston, Ontario, Canada. Violin-peg. No. 1,347,613; July 27; v. 276; p. 628.
Brown, Robert, Montrose, Colo. Spark-arrester. No. 1,347,680; July 27; v. 276; p. 642.
Brown, William D., Somerset, Ky. Shock-absorber. No. 1,346,739; July 13; v. 276; p. 340.
Brown, William R. (See Propert, T. G., and Brown.)
Brown, William R., assignor to A. Mueller, trustee, Decatur, Ill. Drilling-machine. No. 1,347,614; July 27; v. 276; p. 629.
Browning, George, Chicago, Ill. Safety-razor. No. 1,346,294; July 13; v. 276; p. 253.
Bruce, William J., Sterling, Ill. Demountable rim for automobile-wheels. No. 1,347,144; July 20; v. 276; p. 479.
Buch, Royer S., York, Pa. Flask-bar. No. 1,347,574; July 27; v. 276; p. 621.
Buckeye Traction Ditcher Company, The. (See Krupp, Leo A., assignor.)
Buckminster, Ira C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,347,615; July 27; v. 276; p. 629.
Brummett, William S., and E. C. Reed, Pawhuska, Okla. Key-anchor. No. 1,347,773; July 27; v. 276; p. 661.
Brundidge, J. P., *et al.* (See Tullis, John T., assignor.)
Brunelli, Tito L., Clearfield, Pa. Electrical fire-lighting attachment for stoves. No. 1,346,698; July 13; v. 276; p. 332.
Bruns, Richard E., Chicago, Ill. Sealing-cap. No. 1,346,112; July 13; v. 276; p. 217.
Bruyere, Mose, Green Bay, Wis. Crutch and cushion-tip therefor. No. 1,347,320; July 20; v. 276; p. 514.
Bryan, Daniel R., Chatham, N. J.; F. J. Bryan, administrator. Apparatus for sorting heterogeneous materials. (Reissue.) No. 14,917; July 20; v. 276; p. 546.
Bryan, Francis J., administrator. (See Bryan, Daniel R.) (Reissue.)
Bryden, James. (See Jones, A. W., Bryden, and Mowbray.)
Buckham, George T. (See Dawson, A. T., and Buckham.)
Buckingham, Fremont H., assignor to The Standard Computing Scale Company, Detroit, Mich. Scale. No. 1,347,206; July 20; v. 276 p. 490.
Buckwalter, Leon G. (See Hutchinson, Morton C., assignor.)
Budd, George H., Salt Lake City, Utah. Tire-casing seal. No. 1,347,439; July 20; v. 276; p. 537.
Buddington, Thomas C., assignor of one-half to S. G. Elam, Pasadena, Calif. Drilling-bit. No. 1,347,774; July 27; v. 276; p. 661.
Buess, Theophil. (See Gutzwiller, Herbert, assignor.)
Buford, John H., New Hope, Ala. Furrow-cleaner. No. 1,345,346; July 6; v. 276; p. 4.
Bugbee, Lucian W., and E. D. Tillyer, assignors to American Optical Company, Southbridge, Mass. Illumination. No. 1,346,172; July 13; v. 276; p. 228.
Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,347,319; July 20; v. 276; p. 514.
Bugbee, Lucian W. (See Tillyer, E. D., and Bugbee.)
Buggeln, George W., East Orange, N. J. Scarfpin. No. 1,348,083; July 27; v. 276; p. 723.
Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-centering mechanism. No. 1,345,529; July 6; v. 276; p. 40.
Buhl, William, Flushing, N. Y., assignor to Bulkrug Machine Corporation. Power-transmitting means. No. 1,347,076; July 20; v. 276; p. 466.
Bulford, Frederick J. S., Maidenhead, England. Artificial limb. No. 1,345,661; July 6; v. 276; p. 65.
Bulkrug Machine Corporation. (See Buhl, William, assignor.)
Bulley, Reginald H., Syracuse, N. Y. Treating metals. No. 1,347,838; July 27; v. 276; p. 673.
Bullock, Fred J., and W. H. Preston, assignors to Papec Machine Company, Shortsville, N. Y. Ensilage-cutter. No. 1,347,493; July 27; v. 276; p. 604.
Bungay, George W., Brooklyn, N. Y., assignor to Acme Die Casting Corporation. Core for casting curved tubular bodies. No. 1,347,575; July 27; v. 276; p. 621.
Bunnell, Rose P., administratrix. (See Bunnell, W. O., and Gates.)
Bunnell, William O., deceased, and Q. A. Gates, Wilkes-Barre, Pa.; R. P. Bunnell, executrix. Electric heater. No. 1,346,793; July 13; v. 276; p. 352.
Bunting Brass & Bronze Company, The. (See Donaldson, Augustus F., assignor.)
Burd, Charles. (See Burd, George and C.)
Burd, George and C., Detroit, Mich. Air-compresser pump. No. 1,346,699; July 13; v. 276; p. 333.
Burger, William J., East Cleveland, and M. E. Lange, assignors to The Warner & Swasey Company, Cleveland, Ohio. Tool or work holding device. No. 1,346,295; July 13; v. 276; p. 253.
Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)
Burgi, Herman, assignor of one-half to C. H. Tenney, Springfield, Mass. Automatic gas-pressure regulator. No. 1,346,529; July 13; v. 276; p. 299.
Burke, James W., *et al.* (See Eichorn, Frederick C. H., assignor.)
Burman, Olaf S., Minneapolis, Minn. Boiler-stand. No. 1,346,875; July 20; v. 276; p. 426.
Burnett, Ira A., Chicago, Ill. Equestrian toy vehicle. No. 1,345,578; July 6; v. 276; p. 49.
Burnett, Ira A., Chicago, Ill. Moistening attachment for dental-engine handpieces. No. 1,345,579; July 6; v. 276; p. 50.
Burnett-Larsh Manufacturing Company, The. (See Larsh, Everett P., assignor.)
Burns, Robert L. (See Gee, E., and Burns.)
Burofsky, Joseph, Philadelphia, Pa. Lifting apparatus. No. 1,345,992; July 6; v. 276; p. 131.
Burr, Harry M., Middletown, and G. J. Ingraham, West Hartford, assignors to The Omo Mfg. Co., Middletown, Conn. Insulating, waterproof sole for use on boots and shoes. No. 1,347,775; July 27; v. 276; p. 662.
Burritt, F. R., *et al.* (See Johnson, Albert S., assignor.)
Burroughs, Charles F., East Orange, assignor to Composition Machinery Corporation, Newark, N. J. Means for holding impression-plates upon heater-beds. No. 1,346,876; July 20; v. 276; p. 426.
Burroughs, Charles F., East Orange, assignor to Composition Machinery Corporation, Newark, N. J. Filler-cap for receptacles. No. 1,346,877; July 20; v. 276; p. 426.
Burton, Charles S., Oak Park, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. No. 1,348,084; July 27; v. 276; p. 728.
Burton, Charles S., Oak Park, Ill. Connector for bed or seat spring structures. No. 1,347,989; July 27; v. 276; p. 703.
Burton, John L, Hamlet, N. C. Switch-lock. No. 1,345,580; July 6; v. 276; p. 50.
Bushey, Eli J., New York, N. Y. Spring suspension for vehicles. No. 1,347,494; July 27; v. 276; p. 605.
Busby, Lu Ella, Caldwell, Kans. Heater for poultry-houses. No. 1,345,581; July 6; v. 276; p. 50.
Bushnell, Alvah, Jr., Philadelphia, Pa. Card-holder for envelops and wallets. No. 1,345,993; July 6; v. 276; p 132.
Burrows, Allen, Los Angeles, Calif. Wall-molding hanger for bird-cages, &c. No. 1,347,000; July 20; v. 276; p. 453.
Buscher, John H., Washington, D. C. Producing lithographic inserts. No. 1,347,010; July 20; v. 276; p. 453.
Butchart, William A., Denver, Colo. Tilting mechanism for concentrating-tables. No. 1,345,662; July 6; v. 276; p. 66.
Butcher, William L., Flora, Ind. Fence-gate. No. 1,346,395; July 13; v. 276; p. 272.
Butler, Frank L., Chicago, Ill. Electrical fixture. No. 1,347,531; July 27; v. 276; p. 612.
Butler, Leonard F. G. (See Fedden, A. H. R., and Butler.)
Butman, Lewis F., Randolph, and C. E. Bixby, Barre, Vt. Milk cooler and strainer. No. 1,346,937; July 20; v. 276; p. 438.
Butters-Camp Mfg. Co., The. (See Butters, Robert H., assignor.)
Butters, Robert H., Atlanta, Ga., assignor to The Butters-Camp Mfg. Co. Gin or linter saw. No. 1,346,396; July 13; v. 276; p. 272.
Butterworth, H. W., & Sons Company. (See Rowley, William S., assignor.)
Butterworth, Joseph A. (See Purnell, W. H., and Butterworth.)
Byrd, Don, Franklin, W. Va. Transmission-gear. No. 1,347,804; July 27; v. 276; p. 667.
Byrd, William, H., Sour Lake, Tex. Fire-extinguishing device. No. 1,346,099; July 6; v. 276; p. 153.
Cabell, Philip M., New York, N. Y. Concrete-reinforcement. No. 1,345,663; July 6; v. 276; p. 66.
Cadillac Motor Car Company. (See Kiethler, Frederick, assignor.)
Cadillac Motor Car Company. (See Schwarze, Herman, assignor.)
Cady, Elisha J. (See Wyzenbeek, A., and Cady.)
Cady, Elisha J., Oak Park, Ill. Machine for saturating paper-stock. No. 1,345,747; July 6; v. 276; p. 82.
Caine, Marshall, Barberton, Ohio. Segment-block. No. 1,347,247; July 20; v. 276; p. 499.
Caley, Edward C., and C. C. Wray, Burton Pidsea, near Kingston-upon-Hull, England. Agricultural plow. No. 1,347,321; July 20; v. 276; p. 514.

Caley, Guy R., Silesia, Mont. Masking attachment for photographic finders. No. 1,347,681; July 27; v. 276; p. 642.
Callaghan, Henry J. (See Callaghan, John J., assignor.)
Callaghan, John J., assignor to H. J. Callaghan, Livermore, Calif. Apparatus for propagating and intensifying electrical oscillations. No. 1,347,440; July 20; v. 276; p. 538.
Calleson, Amos, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Machine for making articles of sheet metal. No. 1,345,664; July 6; v. 276; p. 66.
Calthrop's, E. R., Aerial Patents Limited. (See Calthrop, Everard R., assignor.)
Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,345,582; July 6; v. 276; p. 50.
Cameron, William W. (See Davis, F. E., and Cameron.)
Cameron, William, assignor to Torris Wold & Company, Chicago, Ill. Blank-positioning mechanism. No. 1,346,589; July 13; v. 276; p. 310.
Campbell, Charles G. (See Dawson, James, assignor.)
Campbell, Frank M., Seattle, Wash. Fluid-controlled clutch mechanism. No. 1,347,322; July 20; v. 276; p. 514.
Campbell, George M., St. Louis, Mo. Automobile-alarm. No. 1,347,495; July 27; v. 276; p. 605.
Campbell, John R., Sanford, N. C. Combination andiron-grate. No. 1,347,935; July 27; v. 276; p. 693.
Campbell, Thomas M., Dallas, Tex. Weather-strip. No. 1,345,832; July 6; v. 276; p. 99.
Canady, Buel H., Winslow, Ariz. Removable bearing-plate. No. 1,347,248; July 20; v. 276; p. 499.
Canales, John L. (See Mediaville, L., Canales.)
Cannell, William, Springfield, Mass., assignor to Bausch Machine Tool Company. Machine for grinding worms and the like. No. 1,346,173; July 13; v. 276; p. 228.
Canner, Max O., assignor of one-half to A. Duff and S. Duff, New York, N. Y. Safety-receptacle. No. 1,346,174; July 13; v. 276; p. 229.
Cannon, Andrew H. (See Smith, Leonard A., assignor.)
Cannon, Mervin B., Cincinnati, Ohio. Toilet-package. No. 1,346,441; July 13; v. 276; p. 282.
Cappelli, Vincenzo, Rome, Italy. Apparatus for roasting and preparing coffee in cups. No. 1,345,477; July 6; v. 276; p. 29.
Caproni, Gianni, Milan, Italy. Landing-carriage for flying-machines. No. 1,345,833; July 6; v. 276; p. 99.
Caraballo, Antonio M. (See Gunturiz y Santoz, Nicolas, assignor.)
Carbon Products Company. (See Rendall, George F., assignor.)
Carborundum Company, The. (See Linbarger, Silas C., assignor.)
Carburetor Lock Corporation, The. (See Evans, W. C., and Bancroft, assignors.)
Carhart, Linden P., Brooklyn, N. Y., and S. Shaughnessy, Jersey City, N. J. Line-indicating device for typewriters. No. 1,346,115; July 13; v. 276; p. 217.
Carlin, Arvid F., New York, N. Y. Toy pistol. No. 1,346,938; July 20; v. 276; p. 439.
Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Pneumatic-tire casing and making same. No. 1,345,994; July 6; v. 276; p. 132.
Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Apparatus for making pneumatic-tire casings. No. 1,345,995; July 6; v. 276; p. 132.
Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Apparatus for use in the manufacture of pneumatic-tire casings. No. 1,345,996; July 6; v. 276; p. 132.
Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Casing for pneumatic tires. No. 1,345,997; July 6; v. 276; p. 132.
Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Casing for pneumatic tires and making same. No. 1,345,998; July 6; v. 276; p. 132.
Carlisle, Marion N., Appleby, Tex. Planter. No. 1,347,441; July 20; v. 276; p. 538.
Carlsen, Axel, Lyngby, near Copenhagen, Denmark. Apparatus for producing driving-belts. No. 1,346,700; July 13; v. 276; p. 333.
Carlson, Oscar F., Chicago, Ill. Center-support bearing. No. 1,347,077; July 20; v. 276; p. 466.
Carlstrand, Charles J., Minneapolis, Minn. Knockdown Christmas tree. No. 1,345,475; July 6; v. 276; p. 29.
Carman, Frank V., Oakland, Calif. Rail-profile instrument. No. 1,347,078; July 20; v. 276; p. 467.
Carmichael, Robert E., Damon, Tex. Sampling. No. 1,346,939; July 20; v. 276; p. 439.
Carmichael, Wilbur J. (See Case, H. C. M., and Carmichael.)
Carmody, Harold J., Brooklyn Manor, assignor of one-half to J. A. Faurot, New York, N. Y. Internal-combustion rotary engine. No. 1,347,731; July 27; v. 276; p. 652.
Caron, Martinus H., Weltevreden, Java. Dutch East Indies, assignor to Clevenger & Caron, Washington, D. C. Treating nickel ores. No. 1,346,175; July 13; v. 276; p. 229.
Carpenter, Lee R., Cleveland, Ohio. Internal-combustion engine. No. 1,345,530; July 6; v. 276; p. 40.
Carpenter, Paul. (See Ellis, Ridsdale, assignor.)
Carr, Edward G., Milwaukee, Wis., assignor to The Lakewood Engineering Company, Cleveland, Ohio. Ball. No. 1,347,891; July 27; v. 276; p. 684.
Carroll, Frank, *et al.* (See Lewis, Jesse D., assignor.)
Carroll, James H., Atlanta, Ga., assignor to Liberty Self Service Corporation, Charlotte, N. C. Store self-service system. No. 1,347,930; July 27; v. 276; p. 693.
Carter, Eversued. (See Carter, Frank and E.)
Carter, Frank and E., assignors of one-third to G. M. Blackstone, Stamford, England. Means for igniting the charge in internal-combustion engines. No. 1,345,999; July 6; v. 276; p. 133.
Carter, George M., Findlay, Ohio, assignor of one-half to R. H. Rosenberg. Vehicle-brake. No. 1,347,990; July 27; v. 276; p. 703.
Carter, James T., Baltimore, Md. Melting-pot and metal-injecting mechanism for type-casting machines. No. 1,346,077; July 6; v. 276; p. 148.
Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Portable pumping apparatus. No. 1,345,531; July 6; v. 276; p. 40.
Carver, Don C., Cambridge, Ohio. Automatic safety gas-valve. No. 1,346,000; July 6; v. 276; p. 133.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Automatic battery-charging system. No. 1,347,323; July 20; v. 276; p. 515.
Case, Harold C. M., and W. J. Carmichael, Urbana, Ill. Stock-feeding device. No. 1,346,878; July 20; v. 276; p. 427.
Casey, Thomas B., Boston, Mass. Internal-combustion engine. No. 1,346,001; July 6; v. 276; p. 133.
Casper, Frank, assignor of one-sixth to P. S. Grady, Cleveland, Ohio. Gripper for printing-presses. No. 1,347,616; July 27; v. 276; p. 629.
Cass, Joseph, Delaware township, Delaware county, Iowa. Drag for planters. No. 1,345,532; July 6; v. 276; p. 41.
Castillo, Amando M., Aringay, Philippine Islands. Hand-seeder. No. 347,249; July 20; v. 276; p. 500.
Castor, Harry B. (See Hinshaw, C. J., and Castor.)
Catalano, Peter P., Dunkirk, N. Y. Automatic gas-lighter and saftey cut-off device. No. 1,347,532; July 27; v. 276; p. 612.
Cathcart, Ezra L., St. Paul, Minn. Posting-tray for machine-bookkeeping. No. 1,348,085; July 27; v. 276; p. 723.
Cathcart, Royal W., Toledo, Ohio. Music-rack. No. 1,346,740; July 13; v. 276; p. 340.
Catlett, Jasper L., Vincennes, Ind. System for numbering motor-cars. No. 1,346,808; July 20; v. 276; p. 413.
Cavanagh, John F., assignor to Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Composition and manufacture. No. 1,346,397; July 13; v. 276; p. 272.
Caziarc, Elsa A., Fort Sheridan, Ill. Semaphore toy. No. 1,347,682; July 27; v. 276; p. 642.
Chadwick, Ralph H., Fort Wayne, Ind., assignor to General Electric Company. Electrode-holder. No. 1,347,776; July 27; v. 276; p. 662.
Chaloner, Thomas T., New York, N. Y. Resilient wheel. No. 1,347,442; July 20; v. 276; p. 538.
Chambers, Aiden R., Winthrop, Mass. Hot-water bottle. No. 1,346,176; July 13; v. 276; p. 229.
Chanard, Auguste, Rueil, France. Fuse for projectiles. No. 1,346,177; July 13; v. 276; p. 229.
Chancellor, J. W. (See Cox, Ernest H., assignor.)
Chandler, Lee, assignor of one-half to J. D. Allen, Oklahoma, Okla. Apparatus for painting smokestacks. No. 1,345,834; July 6; v. 276; p. 99.
Chaney, Lee F., Springfield, Ohio. Filling thermometer-tubes and the like. No. 1,345,347; July 6; v. 276; p. 4.
Chapman, Richard D. (See Crook, A., and Chapman.)
Charlton, Harry W., Jones Point, N. Y., assignor to American Potash Corporation. Producing alkali-metal hydrates. No. 1,346,002; July 6; v. 276; p. 133.
Chase, L. C., Company. (See Vestine, Andrew O., assignor.)
Chase Companies, The. (See Henger, Edwin W., assignor.)
Chavannes, Adrian J., Des Moines, Iowa. Printer's drying-cabinet. No. 1,346,781; July 13; v. 276; p. 349.
Cherington, George T., Waukegan, Ill. Fastening device for phonograph-springs. No. 1,347,079; July 20; v. 276; p. 467.
Cherry, Louis B., Kansas City, Mo. Electrical apparatus for the electrochemical treatment of vapors. No. 1,345,431; July 6; v. 276; p. 20.
Chesebrough, Robert A. (See Ofeldt, Ernest T., assignor.)
Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
Chicago Malleable Castings Company. (See Osborn, Warren M., assignor.)
Chicker, Stanley L. (See Ritchie, Samuel, assignor.)
Child, Dwight P., Quincy, Ill. Meter service-box and housing for curb-cocks. No. 1,346,879; July 20; v. 276; p. 427.
Childress, Patrick H., assignor of one-half to T. W. Quesenbery, Waynesboro, Va. Ash receiver and sifter. No. 1,346,809; July 20; v. 276; p. 413.
Chilman, Henry A. (See Townsend, Layton W., assignor.)
Chiodo, Joseph. (See Tweeddale, Daniel E., assignor.)
Chism, Louis W., Southington, assignor to The Steel Products Company, Hartford, Conn. Carrier apparatus. No. 1,347,496; July 27; v. 276; p. 605.
Chism, Louis W., Springfield, Mass., assignor to The Steel Products Company, Hartford, Conn. Carrier system No. 1,347,497; July 27; v. 276; p. 605.

Chism, Louis W., Springfield, Mass., assignor to The Steel Products Company, Hartford, Conn. Store-service apparatus. No. 1,347,498; July 27; v. 276; p. 605.

Christinni, Thomas, Sarles, N. D. Automatically-adjustable bearing. No. 1,347,443; July 20; v. 276; p. 538.

Christiansen, Hans R., Brooklyn, N. Y. Pneumatic motor. No. 1,347,444; July 20; v. 276; p. 538.

Christiansen, Peter, Cedar Falls township, Blackhawk county, Iowa. Liquid-fertiliser distributer. No. 1,347,892; July 27; v. 276; p. 685.

Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Slow-down sheet-straightener. No. 1,347,145; July 20; v. 276; p. 479.

Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machine. No. 1,347,893; July 27; v. 276; p. 685.

Christopher, Calvin F., Asheville, N. C. Wheel-rim. No. 1,346,178; July 13; v. 276; p. 229.

Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vacuum-type inverted converter. No. 1,347,894; July 27; 276; p. 685.

Church, Albert E., New Britain, Conn. Drill-press chuck. No. 1,345,583; July 6; v. 276; p. 50.

Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,346,530; July 13; v. 276; p. 299.

Church, Shelby L., Houston, Tex. Pneumatic tire. No. 1,346,113; July 13; v. 276; p. 217.

Chytracek, Joseph, Clifton Mills, W. Va. Parachute. No. 1,345,533; July 6; v. 276; p. 41.

Cirelli, Francesco, Philadelphia, Pa. Time-controlled starting mechanism. No. 1,345,584; July 6; v. 276; p. 50.

Cissel, George W., and J. P. Appleman, Washington, D. C. Automobile-windshield screen. No. 1,345,585; July 6; v. 276; p. 51.

Claesson, Helge L., Gottenborg, Sweden. Automatic door-closer. No. 1,346,366; July 13; v. 276; p. 266.

Clapers, Salvador, Baltimore, Md. Slot vending-machine. No. 1,347,683; July 27; v. 276; p. 642.

Clapp, Albert L., Marblehead, Mass. Waterproof paper and producing same. No. 1,345,476; July 6; v. 276; p. 29.

Clark, Absolam F., Los Angeles, Calif. Electromechanical propelling and transmitting mechanism. No. 1,347,250; July 20; v. 276; p. 500.

Clark, Edward W., Los Angeles, assignor of one-half to S. S. Turner, Pasadena, Calif. Adjustable core-box. No. 1,347,080; July 20; v. 276; p. 467.

Clark, Edward W., Los Angeles, assignor of one-half to S. S. Turner, Pasadena, Calif. Core-box. No. 1,357,081; July 20; v. 276; p. 467.

Clark, Reed J., Jr., Youngstown, Ohio. Washing-machine. No. 1,347,617; July 27; v. 276; p. 629.

Clary, Robert S., Greensboro, N. C. Vehicle-guard. No. 1,347,937; July 27; v. 276; p. 693.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,345,348; July 6; v. 276; p. 5.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,345,349; July 6; v. 276; p. 5.

Clausing, Louis F., Los Angeles, Calif. Radiator. No. 1,346,442; July 13; v. 276; p. 282.

Claxo Company, The. (See Slater, Vern, assignor.)

Clay, Joseph B., Cedar Falls, Iowa. Gate-latch or the like. No. 1,347,991; July 27; v. 276; p. 704.

Clayton, Ernest S. (See Derby, J. H., and Clayton.)

Clayton, William G., Upper Hawthorn, near Melbourne, Victoria, Australia. Fuel-economizing device for internal-combustion engines. No. 1,345,432; July 6; v. 276; p. 21.

Cleaveland Osborn Manufacturing Company, The. (See Frost, Clinton E., assignor.)

Cleland, Carl D., Jean, Nev. Spark-plug. No. 1,346,003; July 6; v. 276; p. 183.

Clément, Giulio, Milan, Italy, assignor to Clement Gold Magneto Company. Apparatus for separating or concentrating fine metals from pulverized material. No. 1,345,835; July 6; v. 276; p. 99.

Clement Gold Magneto Company. (See Clément, Giulio, assignor.)

Cleveland Trust Company, The. (See Mooers, Louis P., assignor.)

Cleveland, William H., Wellington, Kans. Rail-anti-creeper tie-plate. No. 1,346,398; July 13; v. 276; p. 272.

Clevenger & Caron. (See Caron, Martinus H., assignor.)

Cliffe, Elsa T. S., Mansfield, Ohio. Vacuum cleaning apparatus. No. 1,345,478; July 6; v. 276; p. 30.

Clipsham, Kenneth M., and M. B. Jackson, Jr., assignors to Arnold Machine Co., Toronto, Ontario, Canada. Machine for cutting moving material into lengths. No. 1,347,618; July 27; v. 276; p. 629.

Cloud, Oscar E., Wichita, Kans. Ventilator. No. 1,346,633; July 13; v. 276; p. 319.

Clover Electric Corporation. (See Clover, Howard K., assignor.)

Clover, Howard K., assignor to Clover Electric Corporation, Los Angeles, Calif. Electric faucet. No. 1,345,748; July 6; v. 276; p. 82.

Coates, Harry E., Sacramento, Calif. Toy fort. No. 1,348,086; July 27; v. 276; p. 723.

Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa. Method and apparatus for cooling ingot-molds. No. 1,345,749; July 6; v. 276; p. 82.

Coats, Charles E., assignor to Coats Machine Tool Company, Inc., New York, N. Y. Gage. No. 1,347,207; July 20; v. 276; p. 491.

Coats Machine Tool Company. (See Coats, Charles E., assignor.)

Coblentz, William W., Washington, D. C. Radiophone. No. 1,345,586; July 6; v. 276; p. 51.

Coburn, Pressly J., Wellsville, Ohio. Amusement device. No. 1,346,634; July 13; v. 276; p. 320.

Cochran, Carl T., Houston, Tex. Signal. No. 1,347,011; July 20; v. 276; p. 453.

Cochran, Willard F., Blue Ridge, Ga. Plow. No. 1,346,701; July 13; v. 276; p. 333.

Cochrane, H. S. B. W. Corporation. (See Wallem, Axel B., assignor.)

Cockburn, David, and D. MacNicoll, Cardonald, near Glasgow, Scotland. Engine stop-gear. No. 1,346,590; July 13; v. 276; p. 311.

Cockburn, David, and D. MacNicoll, Cardonald, near Glasgow, Scotland. Governing and emergency mechanism. No. 1,347,208; July 20; v. 276; p. 491.

Colburn Machine Tool Company. (See Head, Ernest C., assignor.)

Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace for heating ribbons and bars. No. 1,347,895; July 27; v. 276; p. 685.

Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Double-hot-chamber furnace. No. 1,347,896; July 27; v. 276; p. 685.

Cole, Fred H., Yuma, Colo. Store-counter. No. 1,348,087; July 27; v. 276; p. 723.

Colley, Ralph, Tonica, Ill. Disk-holder. No. 1,346,004; July 6; v. 276; p. 134.

Collier, William H., Yatesville, Ga. Submarine. No. 1,345,836; July 6; v. 276; p. 100.

Collins, Asa W., San Francisco, Calif. Apparatus for binding fractured bones. No. 1,346,940; July 20; v. 276; p. 439.

Collins, Jeremiah F., and L. B. Weston, Brockton, Mass. Shoe-form. No. 1,346,296; July 13; v. 276; p. 253.

Collins, Jeremiah F., and L. B. Weston, Brockton, Mass. Last. No. 1,346,297; July 13; v. 276; p. 253.

Collins, John W. (See Allyne, E. E., and Collins.)

Colona Manufacturing Company. (See Shrum, Peter J., assignor.)

Colonial Machine Company. (See Vandercar, William J., assignor.)

Colony, Pearl C., Los Angeles, Calif. Advertising-car construction. No. 1,347,012; July 20; v. 276; p. 453.

Colter, George T., New York, N. Y. Brassière-hook. No. 1,346,702; July 13; v. 276; p. 333.

Colvin, Shady D., assignor of one-half to W. H. Welch, Myrtis, La. Electrical superheater. No. 1,346,741; July 13; v. 276; p. 341.

Comas Cigarette Machine Company. (See Schofield, Frederick C., assignor.)

Combustion Engineering Corporation. (See Van Brunt, John, assignor.)

Commonwealth Steel Company. (See Sheehan, William M., assignor.)

Comp., Phoebus E. G. (See Boltshauser, Conrad, assignor.)

Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt. (See Rimailho, Emile, assignor.)

Composition Machinery Corporation. (See Burroughs, Charles F., assignor.)

Comstock, Jesse F., Wilkes-Barre, Pa. Winding-machine. No. 1,346,635; July 13; v. 276; p. 320.

Congdon, Charles H., East Stroudsburg, Pa. Container. No. 1,346,298; July 13; v. 276; p. 254.

Conlon, Thomas P., New York, N. Y. Lock, bolt, or catch for doors, windows, shutters, or the like. No. 1,347,251; July 20; v. 276; p. 500.

Conn, C. G., Ltd. (See Gulick, Edward J., assignor.)

Connecticut Telephone & Electric Company. (See Cavanagh, John F., assignor.)

Connell, Simon J., Brooklyn, N. Y. Valve. No. 1,348,088; July 27; v. 276; p. 724.

Connelly, Harry F., Macomb, Ill. Concrete edging and marking tool. No. 1,347,988; July 27; v. 276; p. 693.

Conner, J. M., *et al.* (See Johnson, Albert S., assignor.)

Connors, Alford A., Universal City, Calif. Book-holder for beds, &c. No. 1,347,471; July 20; v. 276; p. 543.

Consolidated Machine Company. (See Stewart, Laurence E., assignor.)

Continental Can Company. (See Sedwick, Mathew M., assignor.)

Continental Can Company. (See Taliaferro, J. C., and Warme, assignors.)

Cook, Wilbur C., Waltham, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Display-box for watches. No. 1,346,591; July 13; v. 276; p. 311.

Cooke, Clayton G., New Haven, Conn., assignor to American Linen Fibre Company, Wilmington, Del. Flax-machine. No. 1,348,089; July 27; v. 276; p. 724.

Cooke, Sidney V. (See Ionides, A. C., Jr., and Cooke.)

Coons, Henry R., assignor, by mesne assignments, to National Metal Edge Box Company, Philadelphia, Pa. Box. No. 1,347,839; July 27; v. 276; p. 674.

Cooper, Edward, Cheyenne, Wyo. Means for locking electric switches on automobiles. No. 1,348,090; July 27; v. 276; p. 724.

Cooper, Fred. (See Adams, Otis, assignor.)

Cooper, George B., Cleveland, Ohio. Tire-vulcanizer. No. 1,346,483; July 13; v. 276; p. 290.

Cooper, Hamilton A., assignor of one-half to C. A. Briggs, Toledo, Ohio. Ladder. No. 1,346,299; July 13; v. 276; p. 254.

Cooper, Richard B., New York, N. Y., assignor to Fiske & Company, Incorporated. Hollow channel-brick and wall construction. No. 1,347,533; July 27; v. 276; p. 612.

Cooper, Thomas L. R., London, England. Combined motor-pump. No. 1,347,732; July 27; v. 276; p. 653.

Cooperman, Louis, New York, N. Y. Crown-articulator. No. 1,345,433; July 6; v. 276; p. 21.

Cope, Frank T. (See Baily, T. F., and Cope.)

Copeman, Lloyd G., Flint, Mich. Toaster. No. 1,347,013; July 20; v. 276; p. 454.

Coppage, Benjamin D., Wilmington, Del. Driving mechanism for paper-making machines. No. 1,345,479; July 6, v. 276; p. 30.

Corell, Clifton B., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,346,367; July 13; v. 276; p. 267.

Corliss, Cullen D., assignor to Michigan Lubricator Company, Detroit, Mich. Grease-cup. No. 1,347,472; July 20; v. 276; p. 543.

Corliss, Cyrus, Boston, Mass. Time-computing apparatus. No. 1,347,014; July 20; v. 276; p. 454.

Cornell, Charles H., Valentine, Nebr. License-card. No. 1,346,005. July 6; v. 276; p. 134.

Corning, Douglas D., Lynn, Mass. Automatic material-dispensing device. No. 1,245,850; July 6; v. 276; p. 5.

Cornish, Harry S., Chicago, Ill. Liquid mixing and delivery apparatus. No. 1,347,576; July 27; v. 276; p. 621.

Cosmos Engineering Company, The. (See Fedden, A. H. R., and Butler, assignors.)

Cottle, Charles A., Edwardsville, Pa. Carrier for explosives. No. 1,346,636; July 13; v. 276; p. 320.

Couch, Forrest J., assignor to Rochester Washing Machine Corporation, Rochester, N. Y. Shock-absorbing clutch. No. 1,346,978; July 6; v. 276; p. 149.

Coulson, John, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic pickling process. No. 1,347,897; July 27; v. 276; p. 686.

Coulston, Herbert V., assignor to Smith and Furbush Machine Company, Philadelphia, Pa. Garnet-cylinder. No. 1,346,637; July 13; v. 276; p. 320.

Cowan, Albert W. (See Sillett, H. C., and Cowan.)

Cox, Ernest H., Duncan, Okla., assignor of one-half to J. W. Chancellor, Bowie, Tex. Device for testing wells for oil, gas, &c. No. 1,347,534; July 27; v. 276; p. 612.

Cozart, Wallace A., Oklahoma, Okla. Wall-bracket. No. 1,345,910; July 6; v. 276; p. 115.

Cozzolino, Donato. (See Van Fleet, Edwin W., assignor.)

Crandall, Lehman H., Los Angeles, Calif. Belt-buckle. No. 1,347,324; July 20; v. 276; p. 515.

Crandall, Russell A. Buttonwillow, Calif. Hay-loader. No. 1,348,091; July 27; v. 276; p. 724.

Crane, John T., Maywood, Ill. Line-shaft bearing. No. 1,345,534; July 6; v. 276; p. 41.

Crawford-Frost, William A., Baltimore, Md. Wave-energy motor. No. 1,346,399; July 13; v. 276; p. 272.

Creason, Frank, assignor of one-half to W. A. Mullin, Richmond, Mo. Corner-block mold. No. 1,347,015; July 20; v. 276; p. 454.

Crenshaw, Loren O., Los Angeles, Calif., assignor to Magnetic Signal Company. Double-coil oscillating motor. No. 1,347,209; July 20; v. 276; p. 491.

Crick, Arthur, assignor to H. D. Sweetland and A. J. Owen, Bristol, England. Signal-flag for taxicabs. No. 1,347,210; July 20; v. 276; p. 491.

Crippen, Henry M., Athens, Ohio, assignor to The Athens Bindery Company. Loose-leaf-binding machine. No. 1,346,179; July 13; v. 276; p. 229.

Crocco, Gaetano A., Rome, Italy. Perforating-machine for bank-drafts and other documents. No. 1,347,445; July 20; v. 276; p. 539.

Crocker, Ernest B., Stratford, assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Pressure-gage. No. 1,346,941; July 20; v. 276; p. 439.

Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)

Crook, Alfred, and R. D. Chapman, Philadelphia, Pa., assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Method and means for making artificial-stone products. No. 1,346,638; July 13; v. 276; p. 320.

Crosby, Edwin L., and O. J. Marshick, Detroit, Mich. Journaled cable-clamp. No. 1,345,351; July 6; v. 276; p. 5.

Crosby, Oliver, assignor to American Hoist & Derrick Co., St. Paul, Minn. Attachment for rope-blocks. No. 1,347,211; July 20; v. 276; p. 492.

Crouse-Hinds Company. (See Bissell, Carl H., assignor.)

Crouse-Hinds Company. (See Hastings, H. P., and Dossert, assignors.)

Crowe, David F., Latrobe, Pa. Window-seat. No. 1,347,016; July 20; v. 276, p. 454.

Crowley, Jerome A., Randolph, N. Y. Device for tabulating bonds and other securities. No. 1,347,325; July 20; v. 276; p. 515.

Cru Patents Corporation. (See Wenderhold, William, assignor.)

Cuendet, Maurice, Cordex par Vich, Switzerland. Vise. No. 1,345,665; July 6; v. 276; p. 66.

Cuke, Duncan A., and F. J. Twilley, Montreal, Quebec, Canada. Shipping-tag. No. 1,347,212; July 20; v. 276; p. 492.

Culley, Ralph H. (See Manthey, Otto J., assignor.)

Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Field-coil-testing device. No. 1,346,592; July 13; v. 276; p. 311.

Cummins, William R., Glasgow, Scotland. Internal-combustion engine. No. 1,345,911; July 6; v. 276; p. 115.

Cunningham, John S., Des Moines, Iowa. Clutch-pedal lock. No. 1,347,252; July 20; v. 276; p. 501.

Cuno, Charles F., Meriden, Conn. Electric cigar-lighter. No. 1,346,368; July 13; v. 276; p. 267.

Curran, Frank, Susquehanna, Pa. Locomotive and car wheel gage. No. 1,347,684; July 27; v. 276; p. 643.

Curtis, Jesse T., assignor of one-third to F. L. McClure and one-third to F. F. Le Fevre, Sebring, Ohio. Signal-operating means. No. 1,346,703; July 13; v. 276; p. 333.

Curtis, Stanley R., Royal Oak, Mich. Drinking-fountain. No. 1,346,006; July 6; v. 276; p. 434.

Cushion Spring Engineering Corporation. (See Hunt, Ozello R., assignor.)

Cushman, Everett B., Topeka, Kans. Splash-lubricating system. No. 1,347,685; July 27; v. 276; p. 643.

Cutler, Cecil, and D. F. Morand; said Cutler assignor to E. Verey, Sydney, New South Wales, Australia. Loose-leaf binder. No. 1,346,180; July 13; v. 276; p. 230.

Cutler-Hammer M'f'g Co., The. (See Lent, Wilmar F., assignor.)

Cutler-Hammer Mfg. Co., The. (See Tregoning William C., assignor.)

Cutting, Fulton, Tuxedo Park, N. Y., and B. Washington, Cambridge, Mass. Wireless telegraphy. No. 1,345,352; July 6; v. 276; p. 5.

Cyclone Manufacturing Company, The. (See Speicher, Daniel E., assignor.)

Dabbs, Albert E., Manchester, S. W. Savage, Chorlton-cum-Hardy, and A. H. Hindle, Birmingham, assignors of one-eighth to A. Liddle, Manchester, and one-half to J. G. W. Gruban, Kingsway, London, England. Roller or ball bearing. No. 1,346,443; July 13; v. 276; p. 282.

Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Valve and means for cooling same. No. 1,345,535; July 6; v. 276; p. 41.

Dahne, Julius A., Stillwater, Minn. Scale. No. 1,345,587; July 6; v. 276; p. 51.

Dalrymple, Philip W., Baltimore, Md. Tread. No. 1,347,253; July 20; v. 276; p. 501.

Damon, William H., Los Angeles, Calif. Sun and rain shield for automobiles. No. 1,348,135; July 27; v. 276; p. 733.

Daniels, Frank A., Pittsburgh, and G. Schuster, Carrick borough, Pa. Rabbeting apparatus. No. 1,346,079; July 6; v. 276; p. 149.

Daniels, Harry H. Winthrop, assignor to The Service Machines Company, Boston, Mass. Stamp-affixing machine. No. 1,346,484; July 13; v. 276; p. 290.

Dankmeyer, Charles H., Baltimore, Md. Belting fabric. No. 1,347,254; July 20; v. 276; p. 501.

Danziger, Adolphe. (See Rider, Thomas B., assignor.)

Darby, John, Summit, N. J., assignor to F. B. Grimm, New York, N. Y. Motion-picture machine. No. 1,346,880; July 20; v. 276; p. 427.

Dargin, Ernest P., Denver, Colo. Spring mechanism for automobiles and other vehicles. No. 1,346,300; July 13; v. 276; p. 254.

Darling, Samuel, Waupun, Wis. Arch-support. No. 1,346,444; July 13; v. 276; p. 282.

Darlington, Philip J., assignor to The Roto Company, Hartford, Conn. Tube-cleaner. No. 1,345,480; July 6; v. 276; p. 30.

Darrin, David H., Maywood, N. J. Time-switch. No. 1,346,114; July 13; v. 276; p. 217.

Dathan, Charles F., Chicago, Ill. Torpedo-net for ships. No. 1,347,363; July 20; v. 276; p. 523.

Daugherty, John Q., assignor of one-fourth to K. M. Rowe, Broken Arrow, Okla. Nut-lock. No. 1,346,301; July 13; v. 276; p. 254.

Davenport, Floy E., Callaway, Nebr. Animal gun-trap. No. 1,347,255; July 20; v. 276; p. 501.

Davidson, Frank B., Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y. Paper or paper board and making same. No. 1,347,619; July 27; v. 276; p. 630.

Davies, Henry R., assignor to Industrial Research Corporation, Toledo, Ohio. Automatic regulator. No. 1,346,181; July 13; v. 276; p. 230.

Davies, Nelson E., Redwood City, Calif. Fluid-checking device. No. 1,347,017; July 20; v. 276; p. 454.

Davis, Benjamin W., Chicago, Ill. Portable signal system. No. 1,346,531; July 13; v. 276; p. 299.

Davis, Frank E., and W. W. Cameron, assignors to La Crosse Plow Co., La Crosse, Wis. Tractor-plow. No. 1,347,992; July 27; v. 276; p. 704.

Davis, Frederick W., Dayton, Ohio. Self-serving store. No. 1,345,481; July 6; v. 276; p. 30.
Davis, Frederick W., Dayton, Ohio. Water-station. No. 1,345,482; July 6; v. 276; p. 30.
Davis, George F., Ozona, Tex. Wood-rod elevator. No. 1,347,535; July 27; v. 276; p. 613.
Davis, Irving L., Dayton, Ohio. Arrow. No. 1,346,639; July 13; v. 276; p. 321.
Davis, James F., assignor of one-half to S. S. Howard, Atwater, Calif. Machine for raising and cutting potato-vines and the like. No. 1,347,733; July 27; v. 276; p. 653.
Davis, James G., Buffalo, N. Y. Floor and ceiling construction. No. 1,347,146; July 20; v. 276; p. 479.
Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. No. 1,345,837; July 6; v. 276; p. 100.
Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Piston. No. 1,347,082; July 20; v. 276; p. 467.
Davis, Laurence B., Providence, R. I., assignor to Revere Rubber Company. Coating apparatus. No. 1,347,256; July 20; v. 276; p. 501.
Davis, Robert S., Powhatan, La. Adjustable standard and heel-knife. No. 1,347,257; July 20; v. 276; p. 502.
Davy Brothers Limited. (See Hand, Thomas W., assignor.)
Dawley, Herbert M., Chatham, N. J. Articulated effigy. No. 1,347,993; July 27; v. 276; p. 704.
Dawley, James C. (See Ripsch, C. W., and Dawley.)
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Electrical signaling system. No. 1,347,258; July 20; v. 276; p. 502.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,345,536; July 6; v. 276; p. 41.
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Ammunition-hoisting apparatus. No. 1,346,302; July 13; v. 276; p. 254.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Sighting device for guns. No. 1,346,303; July 13; v. 276; p. 255.
Dawson, James, Oakland, assignor to C. G. Campbell, Alameda county, Calif. Fuel-economizer for cooking-stoves. No. 1,346,445; July 13; v. 276; p. 282.
Dawson, James V., Oskaloosa, Iowa, assignor of one-half to J. L. Mitchell, What Cheer, Iowa. Automobile shock-absorber. No. 1,347,939; July 27; v. 276; p. 693.
Dawson Manufacturing Company. (See Dawson, Sidney, assignor.)
Dawson, Sidney, assignor to Dawson Manufacturing Company, Chicago, Ill. Grease-cup. No. 1,345,434; July 6; v. 276; p. 21.
Day, Benjamin R., Winfield, Kans. Photographer's developing-rack. No. 1,347,620; July 27; v. 276; p. 630.
Day, George H., assignor to American Optical Company, Southbridge, Mass. Eye-testing instrument. No. 1,348,092; July 27; v. 276; p. 724.
Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Mechanism for applying coating to shells and other articles. No. 1,347,994; July 27; v. 276; p. 704.
Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
De Aguiar, Pedro P., Habana, Cuba. Condiment-holder. No. 1,346,007; July 6; v. 276; p. 134.
De Arrigunaga, Manuel, New York, N. Y. Device for the preparation of coffee or like beverages. No. 1,346,485; July 13; v. 276; p. 290.
De Beaumont, Norman, New York, N. Y. Belt. No. 1,345,750; July 6; v. 276; p. 83.
De Brandt, William F., Melbourne, Victoria, assignor to The Fogarty Patent Interchangeable Harvester Corporation Limited, Perth, Western Australia, Australia. Harvesting-machine. No. 1,346,182; July 13; v. 276; p. 230.
De Cardenas, Ambrose. (See Ramos, R., and de Cardenas.)
De Cew, Judson A., New York, N. Y. Making emulsions. No. 1,347,734; July 27; v. 276; p. 653.
Decker, Walter W., Minneapolis, Minn. Name-piece for umbrellas. No. 1,346,810; July 20; v. 276; p. 414.
Decker, William J., Detroit, Mich. Curtain-window. No. 1,347,499; July 27; v. 276; p. 606.
De Clercq, Hendrik, Amsterdam, Netherlands. Drawing-board. No. 1,346,593; July 13; v. 276; p. 311.
Dederich, William. (See Willner, Sigmund, assignor.)
Deere and Company. (See Holstein, John V., assignor.)
Deere & Company. (See Howard, Otis W., assignor.)
Deerr, Noël, Brooklyn, N. Y. Apparatus for macerating bagasse. No. 1,346,594; July 13; v. 276; p. 311.
Defiance Button Machine Co. (See Bischoff, Herman, assignor.)
De Frain, Joseph. (See Stipes, R. B., and De Frain.)
Degener, Gustave O., Brooklyn, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,347,621; July 27; v. 276; p. 630.
D'Egilbert, William A., and B. Garland, Willows, Calif. Hog-box. No. 1,348,093; July 27; v. 276; p. 725.
Deininger, Arthur E., St. Paul, Nebr. Vaccine-injector. No. 1,347,622; July 27; v. 276; p. 630.
De Leeuw, Joseph, The Hague, Netherlands. Keyless lock. No. 1,346,080; July 6; v. 276; p. 149.
De Long, Oscar T., Atlanta, Ga. Clamp for vulcanizing-machines. No. 1,347,213; July 20; v. 276; p. 492.
De Long, A., Scheepswerf en Machinefabriek, Firma. (See Rooker, Johannes G. F., assignor.)
Del Re, Domenico, Iron River, Mich. Life-preserver helmet. No. 1,348,094; July 27; v. 276; p. 725.
Del Solar, Aristides, assignor to A. R. Shrigley, trustee, Boston, Mass. Torpedo-director. No. 1,346,278; July 13; v. 276; p. 249.
Demling, John W. (See Franck, Val F., assignor.)
Dendy, Nathaniel W., Asheville, N. C. Bed-warming device. No. 1,347,995; July 27; v. 276; p. 704.
Denis, Louis, Liege, Belgium. Sawing-machine. No. 1,346,446; July 13; v. 276; p. 283.
Denne, Mark T., Rushden, England. Stitch-forming mechanism for sewing-machines. No. 1,346,183; July 13; v. 276; p. 230.
Dennis, Fred C., Blair, Okla. Automatic gasolene-dispensing machine. No. 1,347,147; July 20; v. 276; p. 479.
Dentists' Supply Company, The. (See Off, Edward P., assignor.)
Denver Fire Clay Company. (See Lindsay, George W., assignor.)
De Prez, John D. (See Dobbins, Douglas, assignor.)
Derby, Hollis J., Amherst, Ohio. Device for stopping trains or cars. No. 1,347,996; July 27; v. 276; p. 705.
Derby, John H., and E. S. Clayton, New York, N. Y., assignors to American Fire Prevention Bureau, Inc. Electric-circuit thermostat. No. 1,347,735; July 27; v. 276; p. 653.
Derscha, Joseph, Flint, Mich. Amount-certification rubber check-stamp for banks. No. 1,347,259; July 20; v. 276; p. 502.
Derungs, Ernest A., assignor to Societe Anonyme Ateliers Otis Piffre, Paris, France. System of haulage. No. 1,346,447; July 13; v. 276; p. 283.
Desmarais, Samuel, Cleveland, Ohio. Comb. No. 1,347,260; July 20; v. 276; p. 502.
Devarco, Paul, West Hoboken, N. J. Reversible broom and the like. No. 1,345,359; July 6; v. 276; p. 6.
De Vault, Ralph P., Battle Creek, Mich. Motion-picture apparatus. No. 1,347,326; July 20; v. 276; p. 515.
Devey, Walter A., American Fork, Utah. Automatic weighing apparatus. No. 1,345,838; July 6; v. 276; p. 100.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Power-stand for sewing-machines. No. 1,347,840; July 27; v. 276; p. 674.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Controlling means for power-transmitters. No. 1,347,841; July 27; v. 276; p. 674.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Belt-gearing. No. 1,347,842; July 27; v. 276; p. 675.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Spool-holder. No. 1,347,843; July 27; v. 276; p. 675.
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Dewald, Edward, Sr., assignor of one-half to E. Dewald, Jr., Cincinnati, Ohio. Swivel-plug connector. No. 1,347,577; July 27; v. 276; p. 621.
Dewey, Ellsworth A., Tampa, Fla. Block-making machine. No. 1,346,640; July 13; v. 276; p. 321.
Dewrance, John, London, England. Multiple-way stop-valve. No. 1,345,751; July 6; v. 276; p. 83.
De Waters, Enos A., Flint, assignor to General Motors Corporation, Detroit, Mich. Lubricating means for valve-operating devices. No. 1,346,116; July 13; v. 276; p. 218.
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Diamond Electric Specialties Corp. (See Rosenfeld, Francis M., assignor.)
Diamond, James E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion-motor cylinder. No. 1,347,478; July 20; v. 276; p. 545.
Dick, Joseph C. F., Stockton, Calif. Tread attachment for tractor-wheels. No. 1,347,018; July 20; v. 276; p. 455.
Dickinson, Edgar D., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,347,327; July 20; v. 276; p. 515.
Dickinson, Thomas A., Youngstown, Ohio. Self-filling fountain-pen. No. 1,346,184; July 13; v. 276; p. 231.
Dickman, Smith V., Shavertown, N. Y. Planetary gearing. No. 1,348,095; July 27; v. 276; p. 725.
Diebold, Alfred J., Pittsburgh, Pa. Telephone-receiver holder. No. 1,345,839; July 6; v. 276; p. 100.
Diebold, Fritz, Zurich, Switzerland. Process and apparatus for atomizing liquid substances into very small particles. No. 1,346,811; July 20; v. 276; p. 414.
Diederich, Hunt, New York, N. Y. Electric lamp and fan. No. 1,345,752; July 6; v. 276; p. 83.
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Dieter, William, Brooklyn, N. Y. Brake mechanism for motor-cars. No. 1,347,736; July 27; v. 276; p. 653.
Dilg, Charles H. J., New York, N. Y. Washing-machine. No. 1,346,595; July 13; v. 276; p. 312.

Dilg, Charles H. J., New York, N. Y. Knife-controlling mechanism for cutlery-renovating machines. No. 1,346,804; July 13; v. 276; p. 354.
Di Maggio, Vincenso, New York, N. Y. Shoe-support. No. 1,346,008; July 6; v. 276; p. 134.
Diodato, Frank A., North Collins, assignor to Dio-Kads Corporation, Buffalo, N. Y. Automatic or safety train-stop mechanism. No. 1,345,753; July 6; v. 276; p. 83.
Dio-Kads Corporation. (See Diodato, Frank A., assignor.)
Dion, Amédée. (See Dion, Bruno and A.)
Dion, Bruno and A., Ste. Therese de Blainville, Quebec, Canada. Band-cutter and feeder. No. 1,345,588; July 6; v. 276; p. 51.
Dixon, Galen J., Bishop, Calif. Fish screen or guard. No. 1,346,881; July 20; v. 276; p. 427.
Doan, Howard E., Joliet, Ill. Door opening and closing mechanism. No. 1,347,844; July 27; v. 276; p. 675.
Dobbins, Douglas, assignor of one-half to J. D. De Prez, Shelbyville, Ind. Rotary compressed-air motor. No. 1,347,500; July 27; v. 276; p. 606.
Dodd, James E., Peoria, Ill. Garden-tool. No. 1,348,096; July 27; v. 276; p. 725.
Dodds, Ethan I. (See Flannery, J. R., and Dodds.)
Dodds, Ethan I. (See Stafford, B. E. D., and Dodds.)
Doerflinger, William F., Arrochar, N. Y. Lacquer enamel. No. 1,345,354; July 6; v. 276; p. 6.
Dom, Alexander, assignor to The Samuel C. Tatum Company, Cincinnati, Ohio. Drilling-machine. No. 1,347,214; July 20; v. 276; p. 492.
Doman, Albert E., Elbridge, assignor to Dyneto Electric Company, Syracuse, N. Y. Thermo-electric switch. No. 1,347,686; July 27; v. 276; p. 643.
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Donner, Stephen. (See Nordenberg, S., and Donner.)
Doran, Frank J., and O. H. Kirchner, Hoboken, N. J. Automobile-signal. No. 1,348,097; July 27; v. 276; p. 725.
Dorr Company, The. (See Peck, Charles L., assignor.)
Dossert, John J. (See Hastings, H. P., and Dossert.)
Dougan, Kennedy, Minneapolis, Minn. Wheat-steamer. No. 1,345,840; July 6; v. 276; p. 100.
Doujak, Maria, New York, N. Y. Life-saver automobile attachment. No. 1,346,486; July 13; v. 276; p. 290.
Doughty, Herman W., Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company, Newton Upper Falls, Mass. Signal-recorder. No. 1,345,355; July 6; v. 276; p. 6.
Douglas, Harry A., Bronson, Mich. Circuit-continuing device. No. 1,347,737; July 27; v. 276; p. 654.
Douglas, Harry A., Bronson, Mich. Current-carrying plug. No. 1,347,738; July 27; v. 276; p. 654.
Douglas, William W., and S. L. Bailey, Bristol, England. Sight-feed lubricator. No. 1,346,942; July 20; v. 276; p. 440.
Dover, George W., Cranston, R. I. Semispherical ball-bearing structure. No. 1,346,400; July 13; v. 276; p. 273.
Dow, Fred T., Bangor, Me. Drying apparatus. No. 1,347,473; July 20; v. 276; p. 544.
Downie, James H., San Antonio, Tex. Paper-cutting machine. No. 1,347,536; July 27; v. 276; p. 613.
Doyle, Clarence E., Washington, D. C., assignor to Hutchinson Egg-Case Filler Co., Hutchinson, Kans. Receptacle-closure. No. 1,347,446; July 20; v. 276; p. 539.
Doyle, Elmer J., Detroit, Mich. Combined velocipede and wagon. No. 1,346,596; July 13; v. 276; p. 312.
Doyle, Helen F., Waterbury, Conn. Clothesline-coupling. No. 1,346,487; July 13; v. 276; p. 290.
Doyle, Joseph P., Lakewood, Ohio. Smoke-preventing furnace-door check. No. 1,347,261; July 20; v. 276; p. 502.
Doyle, William J., and J. J. Wollenhaupt, assignors to The Monitor Stove & Range Company, Cincinnati, Ohio. Furnace. No. 1,346,801; July 13; v. 276; p. 354.
Drabek, Charles, assignor to The Drabek Equalizer Company, Cleveland, Ohio. Spring-suspension for vehicles. (Reissue.) No. 14,918; July 20; v. 276; p. 546.
Drabek Equalizer Company, The. (See Drabek, Charles, assignor.) (Reissue.)
Drain, John A., Philadelphia, Pa. Ingot-mold. No. 1,346,369; July 13; v. 276; p. 267.
Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Protectively coating sheet-metal containers. No. 1,346,943; July 20; v. 276; p. 440.
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Draper Corporation. (See Stone, Melvin L., assignor.)
Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)
Dreis, Herman C., Chicago, Ill. Bending-brake. No. 1,347,474; July 20; v. 276; p. 544.
Driggs, George W., and F. R. Henke, Elyria, Ohio. Object-holder. No. 1,346,944; July 20; v. 276; p. 440.
Driscoll, Con, Coalinga, Calif. Propelling and draft-reducing mechanism for ships and boats. No. 1,347,148; July 20; v. 276; p. 480.
Drope, Clarence J., Minneapolis, Minn. Tire. No. 1,346,081; July 6; v. 276; p. 149.
Drouet, Charles, Houston, Tex. Pneumatic tire. No. 1,346,945; July 20; v. 276; p. 440.
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Drummond, Edward W., Wollaston, Mass. Railway-tie and fastener. No. 1,346,305; July 13; v. 276; p. 255.
Drummond, William G., Los Angeles, Calif. Gear-shift. No. 1,346,532; July 13; v. 276; p. 299.
Dubilier, William, New York, N. Y. Condenser and making same. No. 1,345,754; July 6; v. 276; p. 84.
Duff, Alexander, *et al.* (See Canner, Max O., assignor.)
Duff, Sarah, *et al.* (See Canner, Max O., assignor.)
Duffy, John, Chicago, Ill. Fuel-mixer. No. 1,347,997; July 27; v. 276; p. 705.
Duket, Henry T., Toledo, Ohio. Pliers. No. 1,346,306; July 13; v. 276; p. 255.
Dula, Caleb C., assignor to Liggett & Myers Tobacco Company, New York, N. Y. Method of and means for preserving tobacco. No. 1,346,533; July 13; v. 276; p. 300.
Dunbar, Ernest W., assignor to Apsley Rubber Company, Hudson, Mass. Shoe. No. 1,348,136; July 27; v. 276; p. 733.
Duncan, Raymond, New York, N. Y. Stop mechanism for talking-machines. No. 1,346,082; July 6; v. 276; p. 149.
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Dunhill, Alfred, London, England. Receptacle for cigar or cigarette holders. No. 1,345,356; July 6; v. 276; p. 6.
Dunn, Edwin S. (See Leisen, F. J., and Dunn.)
Dunn, Louis, St. Paul, Minn. Safety device for point-switches. No. 1,346,597; July 13; v. 276; p. 312.
Du Pasquier, Arthur, and J. M. L. Slater, Chester, England, assignors to Westinghouse Electric and Manufacturing company. Automatic circuit-interrupting device. No. 1,347,908; July 27; v. 276; p. 688.
Du Pont; E. I., de Nemours and Company. (See Andreau, Roland L., assignor.)
Du Prey, Hartwell A. (See Wade, J., Markin, and Du Prey.)
Durgin, Edgar R., assignor to New Jersey Optical Co., Newark, N. J. Eyeglass-mounting. No. 1,347,998; July 27; v. 276; p. 705.
Durkee, Charles S., Grasmere, N. Y. Automatic self-contained fire-extinguisher. No. 1,345,435; July 6; v. 276; p. 21.
Duston, Ernest W., assignor to The Blake & Johnson Company, Waterbury, Conn. Collapsible spool. No. 1,346,812; July 20; v. 276; p. 414.
Dyneto Electric Company. (See Doman, Albert E., assignor.)
Eastern Tool & Manufacturing Company. (See Peterson, Carl E., assignor.)
Eastman, James H., Detroit, Mich. Electrotherapeutic apparatus. No. 1,345,537; July 6; v. 276; p. 41.
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Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Locomotive. No. 1,347,898; July 27; v. 276; p. 686.
Eberl, Frank, New York, N. Y. Folding attachment for beds. No. 1,347,447; July 20; v. 276; p. 539.
Eby, Philip, assignor to Art In Buttons, Inc., Rochester, N. Y. Separating-machine. No. 1,347,215; July 20; v. 276; p. 492.
Eckmann, Aron, assignor to Schweiz. Serum- und -Impfinstitut, Berne, Switzerland. Producing mercuroamino combinations. No. 1,347,083; July 20; v. 276; p. 467.
Eclipse Stove Company, The. (See Taylor, Thomas E., assignor.)
Edgar, Robert A., assignor of one-fourth to H. T. Rentfroe and one-eighth to J. A. Sellers, Carlyle, Kans. Car-door. No. 1,345,755; July 6; v. 276; p. 84.
Edgeworth, Kenneth E., Dublin, Ireland. Treatment of peat for fuel and apparatus therefor. No. 1,347,940; July 27; v. 276; p. 693.
Edington, Henry V., Chicago, Ill., assignor to Sefton Manufacturing Corporation, Millbrook, N. Y. Paper box. No. 1,347,899; July 27; v. 276; p. 686.
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Edling, Matthias, and W. Falk, Iron River, Mich. Resilient wheel. No. 1,345,912; July 6; v. 276; p. 115.
Edmonds, George F., Leavenworth, Kans. Moisture-collector. No. 1,346,742; July 13; v. 276; p. 341.
Edmonds, Henry, Birmingham, England. Fastener for bags, purses, and the like. No. 1,347,364; July 20; v. 276; p. 523.
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Edwards, Lake B., Anniston, Ala. Lubricating mechanism. No. 1,347,019; July 20; v. 276; p. 455.
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Edwards, Riley. (See Raab, J. W., and Edwards.)
Eggers, William A., Milwaukee, Wis. Gage for sheet-metal machines. No. 1,346,185; July 13; v. 276; p. 231.
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Eggleston, Thomas L., Washington, D. C., assignor to Eggleston Air-Cell Aeroplane Company. Airplane. No. 1,347,084; July 20; v. 276; p. 468.
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Eichorn, Albert H., *et al.* (See Eichorn, Frederick C. H., assignor.)

Eichorn, Frederick C. H., assignor of two-thirds to J. W. Burke and A. H. Eichorn, Boston, Mass. Automobile-lock. No. 1,347,262; July 20; v. 276; p. 503.
Eisenmann, Carl W., Nebraska City, Nebr. Automatic switch. No. 1,348,098; July 27; v. 276; p. 726.
Ek, Arvid, Portland, Me. Paper-towel. No. 1,347,020; July 20; v. 276; p. 455.
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Elam, Samuel G. (See Buddington, Thomas C., assignor.)
Electric Vacuum Cleaner Company. (See Kirby, James B., assignor.)
Electrolytic Zinc Company. (See Avery, D., and Williams.)
Electrolytic Zinc Company. (See Stevens, Royale H., assignor.)
Elgin Gas Motor Company. (See Thompson, Herbert L., assignor.)
Elia, Giovanni E., Rome, Italy, assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,346,809; July 13; v. 276; p. 256.
Elias, Abraham J. (See Stupar, Max, assignor.)
Elisonda, Fernando R., Mexico, Mexico. Device for automatically announcing orders and dangers to moving trains. No. 1,347,538; July 27; v. 276; p. 613.
Elliog, Jens W. A., assignor to A/S Myrens Verksted, Christiania, Norway. Arrangement for drying solid liquid-containing bodies. No. 1,347,501; July 27; v. 276; p. 606.
Ellis, Amos, Philadelphia, Pa. Shaving-brush case. No. 1,347,263; July 20; v. 276; p. 503.
Ellis, Carleton, Montclair, N. J. Hydrogenation. No. 1,345,589; July 6; v. 276; p. 52.
Ellis, James M., Canton, Ill. Equaliser. No. 1,346,097; July 6; v. 276; p. 152.
Ellis, Eidsdale, Oak Park, Ill., assignor to P. Carpenter, Glenview, Ill. Heater for cooling systems. No. 1,345,923; July 6; v. 276; p. 117.
Ellis, Warren E., assignor of one-half to W. M. Traylor, Lebo, Kans. Valve-actuating mechanism. No. 1,346,401; July 13; v. 276; p. 273.
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Elmore, Frank E., Boxmoor, England. Extraction of lead and zinc from their ores. No. 1,346,642; July 13; v. 276; p. 321.
Elson, Jacob, New York, N. Y. Collar-holder. No. 1,347,990; July 27; v. 276; p. 706.
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Emerson Phonograph Company. (See Emerson, Victor H., assignor.)
Emerson, Victor L., Philadelphia, Pa. Apparatus for the conversion of hydrocarbon-oils. No. 1,346,797; July 13; v. 276; p. 353.
Emerson, Victor H., New York, N. Y., assignor to Emerson Phonograph Company, Inc., Talking-machine. No. 1,345,756; July 6; v. 276; p. 84.
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Emmert, William H., Chicago, Ill. Game device. No. 1,345,914; July 6; v. 276; p. 116.
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Propulsion of submarine vessels. No. 1,345,757; July 6; v. 276; p. 84.
Endstrom, Karl A., Denver, Colo., assignor of one-half to The Weiss Instrument Company. Binocular telescope. No. 1,346,808; July 13; v. 276; p. 256.
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Engelbrecht, Julius, Boone, Colo. Carrying-truck. No. 1,345,667; July 6; v. 276; p. 66.
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Englund, Carl R., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Resistance unit. No. 1,347,900; July 27; v. 276; p. 686.
Enström, Edvard, Lidköping, and E. H. W. Weibull, Gothenburg, Sweden. Back-pedaling brake and coaster. No. 1,346,118; July 13; v. 276; p. 218.
Epps, Henry G., Waco, Tex. Coal-oil generator. No. 1,346,370; July 13; v. 276; p. 267.
Erik, Emil, Ossining, assignor of twenty per cent. to E. I. Quick, Westchester county, and thirty per cent. to A. W. Harvey, New York, N. Y. Tractor-shoe-dirt eliminator. No. 1,346,186; July 13; v. 276; p. 231.
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Essentials Mfg. Company. (See Gibson, Adelbert R., assignor.)
Estes, Elmer F., Lincoln, Nebr. Method and apparatus for sinking piling. No. 1,347,088; July 27; v. 276; p. 644.
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Estes, Jerry M., Breckinridge, Okla. Derailer. No. 1,346,009; July 6; v. 276; p. 135.
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Etzel, Frank E., Montclair, N. J. Air-valve for radiators. No. 1,347,216; July 20; v. 276; p. 493.
Evans, Charles S., Berkeley, Calif. Vise. No. 1,347,623; July 27; v. 276; p. 631.
Evans, Daniel W., Scranton, Pa. Draft-rigging for tractors. No. 1,347,448; July 20; v. 276; p. 539.
Evans, Francis J., Burbank, Wash. Pump-actuating mechanism. No. 1,347,739; July 27; v. 276; p. 654.
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Evans, William, Uvalde, Tex. Key-Ring Clip. No. 1,345,357; July 6; v. 276; p. 6.
Evans, William C., Sedalia, Mo., and S. M. Bancroft, Wichita, Kans., assignors, by mesne assignments, to The Carburetor Lock Corporation. Carbureter-lock. No. 1,345,841; July 6; v. 276; p. 101.
Ewing, Henry W., Columbus, Ohio. Wearing-apparel. No. 1,346,448; July 13; v. 276; p. 283.
Ewry, Charles S., Portland, Ind. Egg-tray. No. 1,345,483; July 6; v. 276; p. 31.
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Fahrenwald, Frank A., Cleveland, Ohio. Firearm and alloy for making same. No. 1,346,188; July 13; v. 276; p. 231.
Fahrenwald, Frank A., Cleveland Heights, Ohio. Firearm and alloy for making same. No. 1,346,189; July 13; v. 276; p. 231.
Fahrenwald, Frank A., Cleveland Heights, Ohio. Firearm and alloy for making same. No. 1,346,190; July 13; v. 276 ;p. 231.
Fahrenwald, Frank A., Cleveland Heights, Ohio. Firearm and alloy for making same. No. 1,346,191; July 13; v. 276; p. 231.
Fair, George A., Detroit, Mich. Window. No. 1,345,915; July 6; v. 276; p. 116.
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Fairbanks, Ephraim W., San Diego, Calif. Automobile-wheel. No. 1,346,084; July 6; v. 276; p. 150.
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Fairchild, Harry P., New York, N. Y. Magazine-pencil. No. 1,345,436; July 6; v. 276; p. 21.
Fairchild, Samuel P., Mountain Home, Idaho. Auxiliary car-step. No. 1,345,668; July 6; v. 276; p. 66.
Falk, William. (See Edling, M., and Falk.)
Farnham, Dana C. (See Hiner, O. W., and Farnham.)
Farnham, Eli A., Jr. (See Hiner, O. W., and Farnham.)
Fassel, Martin J., St. Louis, Mo. Rain-guard for motor-vehicles. No. 1,347,218; July 20; v. 276; p. 493.
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Faurot, Joseph A. (See Carmody, Harold J., assignor.)
Fay, Thomas J., Brooklyn, N. Y., assignor to The Standard Parts Company, Cleveland, Ohio. Shaping and tempering metal. No. 1,346,946; July 20; v. 276; p. 440.
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Feagan, Charles R., Detroit, Mich. Air equipment for automobiles. No. 1,347,805; July 27; v. 276; p. 667.
Feagin, R. Douglas. (See Beddingfield, John A., assignor.)
Fedden, Alfred H. R., Bristol, England. Internal-combustion engine. No. 1,346,534; July 13; v. 276; p. 300.
Fedden, Alfred H. R., and L. F. G. Butler, assignors of one-third to The Cosmos Engineering Company, Limited, Bristol, England. Cylinder for internal-combustion engines. No. 1,346,535; July 13; v. 276; p. 300.
Federal Corporation, The. (See Rich, James E., assignor.)
Fedorow, Peter, Chicago, Ill. Automobile-fender. No. 1,347,624; July 27; v. 276; p. 631.
Fehr, Frank, Louisville, Ky. Process and apparatus for extracting alcohol from liquids. No. 1,345,437; July 6; v. 276; p. 21.
Fehrle, Thomas F., Philadelphia, Pa. Hopper. No. 1,346,310; July 13; v. 276; p. 256.
Feiden, Peter, Jr., St. Joseph, Mo. Wheel-guard. No. 1,345,916; July 6; v. 276; p. 116.
Fekete, Stephen I., and S. G. Balts, assignors to Essex Motors, Detroit, Mich. Gear-engaging mechanism for self-starters. No. 1,347,265; July 20; v. 276; p. 503.
Felsenthal, Gabriel, Chicago, Ill. Powder-receptacle. No. 1,347,149; July 20; v. 276; p. 480.
Fender, Joe N., Dallas, Tex. Well-cable pump. No. 1,347,806; July 27; v. 276; p. 667.
Ferch, Walter H., Milwaukee, Wis. Traction device for automobiles and the like. No. 1,346,813; July 20; v. 276; p. 414.
Feroldi, Enrico, Turin, Italy. Carbureter. No. 1,347,150; July 20; v. 276; p. 480.
Fernandes, Manuel B., Jr., assignor of one-fourth to M. B. Fernandes, Sr., Lihue, Hawaii. Harrow. No. 1,348,100; July 27; v. 276; p. 726.
Fernandes, Manuel B., Sr. (See Fernandes, M. B., Jr., and Fernandes, Sr.)
Fereday, Frederick T., Albany, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,348,101; July 27; v. 276; p. 726.

Ferris, Henry L., assignor to Hunt, Helm, Ferris & Compuuy, Harvard, Ill. Stall construction. No. 1,347,041; July 27; v. 276; p. 694.
Fette, Charlotte G., Shelton, Conn. Dustless ash-sifter. No. 1,347,151; July 20; v. 276; p. 480.
Fickersen, Henry, Brooklyn, N. Y. Heater. No. 1,346,764; July 13; v. 276; p. 334.
Field, Crosby, Washington, D. C. Unsheathing and pulverizing machine. No. 1,346,119; July 13; v. 276; p. 218.
Field, Thaddeeus S., Atlanta, Ga. Horseshoe. No. 1,347,021; July 20; v. 276; p. 455.
Fifield, Albert F., Newark, N. J., assignor to The Singer Manufacturing Company. Thread-severing mechanism for sewing-machines. No. 1,346,814; July 20; v. 276; p. 414.
Finch, Herbert I. (See Winter, W. G., and Finch.)
Fink, Eugene L., Deloit, Iowa. Hen's nest. No. 1,347,266; July 20; v. 276; p. 503.
Fink, Louis, Philadelphia, Pa. Submersible destroying or salvaging vessel. No. 1,346,743; July 13; v. 276; p. 341.
Finnigan, George P., Richmond, Va. Electropneumatic control. No. 1,346,882; July 20; v. 276; p. 428.
Finseness, Helen. (See Tonstad, J., and Finseness.)
Firestone Tire & Rubber Company, The. (See Stevens, Horace D., assignor.)
Firestone Tire and Rubber Company, The. (See Williams, William E., assignor.)
Fishbaugh, William, Newark, Ohio. Vulcanizer. No. 1,346,085; July 6; v. 276; p. 150.
Fiske & Company. (See Cooper, Richard B., assignor.)
Fischer, Albert T. (See Horr, John V., assignor.)
Fisher, Arthur W., Wilkinsburg, and C. S. Snavely, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Electrical coil. No. 1,345,484; July 6; v. 276; p. 31.
Fisher, Frank E., Detroit, Mich. Starter for internal-combustion engines. No. 1,346,598; July 13; v. 276; p. 312.
Fisher, Louis M., Clarksdale, Mo. Automatic automobile-jack. No. 1,345,842; July 6; v. 276; p. 101.
Fischer, Theodore C., Philadelphia, Pa. Automobile-lock. No. 1,346,371; July 13; v. 276; p. 267.
Fisher, Robert E., and W. M. York, Long Beach, Calif.; said Fisher assignor to said York. Pay-envelop. No. 1,346,372; July 13; v. 276; p. 268.
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, Sr., and T., Jr., assignors.)
Fitch, Benjamin F., Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del. Running-gear for traveling cranes. No. 1,347,625; July 27; v. 276; p. 631.
Fitts, James L., Pensauken township, Camden county, N. J., assignor to Warren Webster & Company. Thermostatic control device. No. 1,347,689; July 27; v. 276; p. 644.
Fitzgerald, Frank E., Watertown, N. Y. Trousers-support. No. 1,345,917; July 6; v. 276; p. 116.
Fitzgerald, John J., Los Angeles, Calif. Gage device. No. 1,347,022; July 20; v. 276; p. 455.
Fitz-Gibbon, John J., Holyoke, Mass. Toothbrush. No. 1,346,536; July 13; v. 276; p. 300.
Fitzpatrick, William T., Waterloo, Iowa. Retarded-delivery device for fountain-pens. No. 1,347,901; July 27; v. 276; p. 686.
Fjellman, Bengt W. (See Wingquist, S. G., and Fjellman.)
Flaiz, Ed, Olathe, Colo. Tractor. No. 1,346,644; July 13; v. 276; p. 322.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,347,449; July 20; v. 276; p. 539.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,347,450; July 20; v. 276; p. 539.
Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)
Flannery Bolt Company. (See Stafford, B. E. D., and Dodds, assignors.)
Flannery, John R., and E. I. Dobbs, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,346,645; July 13; v. 276; p. 322.
Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,347,539; July 27; v. 276; p. 614.
Fleming, David H., Boston, Mass. Formation-tank. No. 1,348,000; July 27; v. 276; p. 706.
Flinchbaugh, Clarence E., Lima, Ohio. Motor-truck frame. No. 1,346,744; July 13; v. 276; p. 341.
Flintkote Company, The. (See Overbury, Frederick C., assignor.)
Fletcher, Henry J., Brainerd, Minn. Hammer-saw or line-hammer. No. 1,347,365; July 20; v. 276; p. 523.
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Flowers, Alan E., Columbus, Ohio. System of water distillation. No. 1,346,537; July 13; v. 276; p. 301.
Flie, Michael F., Mohawk, Ontario, Canada. Combined cradle and bed. No. 1,347,451; July 20; v. 276; p. 540.
Fluke, Floyd L., *et al.* (See Johnson, Albert S., assignor.)
Folger, Harry S., Chicago, Ill. Stamp-mount. No. 1,347,152; July 20; v. 276; p. 480.
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Foggie, William, Brooklyn, N. Y. Manicuring device. No. 1,345,918; July 6; v. 276; p. 116.
Fohn, Adolf E., Montgomery, assignor to Aurora Steel Products Company, Aurora, Ill. Door-latch. No. 1,348,001; July 27; v. 276; p. 706.
Folsom, Arthur V., Jacksonville, Fla. Solar steam-generator. No. 1,345,758; July 6; v. 276; p. 84.
Foltz, Ira W., Chicago, Ill. Arch for furnaces. No. 1,346,010; July 6; v. 276; p. 135.
Fontaine, Walter R., assignor to Western Vulcaniser Manufacturing Company, Chicago, Ill. Clamp. No. 1,346,947; July 20; v. 276; p. 441.
Ford, Henry, Dearborn, Mich. Transmission mechanism for tractors. No. 1,347,690; July 27; v. 276; p. 644.
Ford, Matthew A., Rockford, Ill. Gridiron. No. 1,345,590; July 6; v. 276; p. 52.
Ford, Robert H., *et al.* (See Priest, H. M., Ford, Greenabaum, and Richardson.)
Forsyth, Homer C., Waldo, Fla. Railway spiking-machine. No. 1,347,943; July 27; v. 276; p. 694.
Fort, O. W., *et al.* (See Brown, Egbert B., assignor.)
Fortier, John J., and J. K. Sherwood, Grand Rapids, Mich.; said Sherwood, assignor to said Fortier. Oiler for loose pulleys. No. 1,345,843; July 6; v. 276; p. 101.
Forton, George, Detroit, Mich. Wrench. No. 1,347,091; July 27; v. 276; p. 644.
Fortuna-Werke, Spezialmaschinenfabrik, G. m. b. H. (See Loose, Johannes, assignor.)
Forward, Arthur J., Ottawa, Ontario, Canada. Index-clip. No. 1,347,942; July 27; v. 276; p. 694.
Foster Brothers Manufacturing Company. (See Foster, William B., assignor.)
Foster, Edward E., Beverly, Mass. Cam-path-generating machine. No. 1,347,085; July 20; v. 276; p. 468.
Foster, Ernest H., Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Superheater. No. 1,347,088; July 20; v. 276; p. 468.
Foster, George W., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Winding-machine. No. 1,347,626; July 27; v. 276; p. 631.
Foster-Johnson Reamer Company. (See Johnson, William B., assignor.)
Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Cushion for sliding-side cribs. No. 1,345,485; July 6; v. 276; p. 31.
Foundation Oven Corporation. (See Roberts, William E., assignor.)
Fox, George, Wichita, Kans. Intake-manifold. No. 1,347,807; July 27; v. 276; p. 667.
Fox, P. A., *et al.* (See Atteberry, William A., assignor.)
Franc, Joseph M. E., St. Vallier, France. Disk wheel for motor-cars. No. 1,345,759; July 6; v. 276; p. 85.
Francis, Charles E., assignor to Vickers Limited, Westminster, London, England. Sewing-machine. No. 1,346,120; July 13; v. 276; p. 218.
Franck, Val F., assignor of one-half to J. W. Demling, Louisville, Ky. Rail-clamp. No. 1,345,844; July 6; v. 276; p. 101.
Franklin, Francis P., Liverpool, England. Constructional toy and educational device. No. 1,347,808; July 27; v. 276; p. 668.
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Fransen, Frank C., Buxton, Iowa. Check-pocket. No. 1,347,452; July 20; v. 276; p. 540.
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Frederick, Salvador H., St. Paul, Minn. Stove attachment. No. 1,346,883; July 20; v. 276; p. 428.
Freed, George F., Ben Avon, and J. R. Spencer, assignors to Pittsburgh Gage & Supply Company, Pittsburgh, Pa. Safety-lock for swing-wringers. No. 1,346,816; July 20; v. 276; p. 415.
Freedman, Louis A., New York, N. Y. Battery-filling machine. No. 1,346,948; July 20; v. 276; p. 441.
Freeman, Willard S., New York, N. Y. Holder for carbon-sheets. No. 1,347,692; July 27; v. 276; p. 644.
Freidrich, Ernest G., Indianapolis, Ind. Sanitary toilet. No. 1,346,311; July 13; v. 276; p. 256.
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Fricker, Anthony, Cleveland, Ohio. Snowplow. No. 1,345,438; July 6; v. 276; p. 22.
Friel, Claude L., Chicago, Ill. Printing-press. No. 1,347,627; July 27; v. 276; p. 631.
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Frizzell, Ralph E. (See Hendrickson, J. H., and Frizzell.)
Frogh, Fred A., St. Paul, Minn. Tractor. No. 1,347,502; July 27; v. 276; p. 606.
Fronek, Bohumil, Chicago, Ill. Hat-fastener. No. 1,347,267; July 20; v. 276; p. 504.
Frost, Clinton E., East Cleveland, assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. No. 1,347,153; July 20; v. 276; p. 481.
Frost, Mollie C. (See Benedict, E. J., and Frost.)
Frye, Edwin P., Milburn, W. Va. Invalid's bed. No. 1,345,760; July 6; v. 276; p. 85.
Fryer, Harry. (See Bartlett, O., and Fryer.)

Fuel Economy Company. (See Livingstone, Frank M., assignor.)
Fuller, Silas S., Lewiston, Me. Clamping device. No. 1,345,358; July 6; v. 276; p. 6.
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton, James J., Guerneville, Calif. Centrifugal clothes-washing machine. No. 1,345,761; July 6; v. 276; p. 85.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Incased radiator. No. 1,345,591; July 6; v. 276; p. 52.
Funk, Arthur N., Fort Worth, Tex. Advertising attachment for scales. No. 1,346,488; July 13; v. 276; p. 291.
Funk, Carlyle B., Chicago, Ill. Hydraulic transmission. No. 1,346,086; July 6; v. 276; p. 150.
Furrow, Edward, Springfield, Ill. Railway structure. No. 1,346,312; July 13; v. 276; p. 257.
Furry, Samuel H., Lancaster, Ohio. Road-crossing. No. 1,346,011; July 6; v. 276; p. 135.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current motor. No. 1,345,538; July 6; v. 276; p. 42.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,345,539; July 6; v. 276; p. 42.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,345,540; July 6; v. 276; p. 42.
Gabbett-Fairfax, Hugh W., London, England. Automatic firearm. No. 1,346,012. July 6; v. 276; p. 135.
Gabelman, Charles, assignor to Packard Motor Car Company, Detroit, Mich. Grinding-machine. No. 1,345,919; July 6; v. 276; p. 117.
Gahl, Rudolf, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation ore-separator and process. No. 1,346,817; July 20; v. 276; p. 415.
Gahl, Rudolf, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation ore-separator. No. 1,346,818; July 20; v. 276; p. 415.
Gahl, Rudolf, Denver, Colo., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation process. No. 1,346,819; July 20; v. 276; p. 415.
Galbraith, Hugh, Wahiawa, Oahu, Hawaii. Violin attachment. No. 1,346,013; July 6; v. 276; p. 135.
Galbreath, John T., Cynthiana, Ky. Spark-plug-cleaning device. No. 1,347,366; July 20; v. 276; p. 523.
Gallagher, Hugh F., Portland, Me. Measuring instrument. No. 1,346,646; July 13; v. 276; p. 322.
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Garfinkel, Marcus, Detroit, Mich. Safe. No. 1,347,693; July 27; v. 276; p. 645.
Garison, Robert J., Hastings, Okla. Pan-lifter. No. 1,346,820; July 20; v. 276; p. 415.
Garland, Ben. (See D'Egilbert, W. A., and Garland.)
Garner, Karl, St. Marys, Pa. Folding scaffold-bracket. No. 1,347,453; July 20; v. 276; p. 540.
Garrett, Walter B., and H. M. Hoffman, Caruthersville, Mo. Lock-operated circuit-closer. No. 1,346,087; July 6; v. 276; p. 150.
Garwitt, Louis, New York, N. Y. Shawl-muffler. No. 1,346,014; July 6; v. 276; p. 135.
Gates, Louis W., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Windshield-wiper. No. 1,345,541; July 6; v. 276; p. 42.
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Gamewell Fire Alarm Telegraph Company, The. (See Doughty, Herman W., assignor.)
Gardner, Charles F. (See Cartwright, Ernest O., assignor.)
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Strip-guide for sewing-machines. No. 1,347,503; July 27; v. 276; p. 606.
Gebauer, Charles L., Cleveland, Ohio. Composition of matter. No. 1,346,192; July 13; v. 276; p. 232.
Gee, Edward, and R. L. Burns, Denver, Colo. Adjustable batten-clamp. No. 1,347,023; July 20; v. 276; p. 456.
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General Electric Company. (See Jacobs, Ernest H., assignor.)
General Electric Company. (See Jones, Benjamin W., assignor.)
General Electric Company. (See Jones, Frank E., assignor.)
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General Electric Company. (See Kubo, Masakichi, assignor.)
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General Electric Company. (See Libby, Sam H., assignor.)
General Electric Company. (See McLain, Robert H., assignor.)
General Electric Company. (See Macmillan Campbell, assignor.)
General Electric Company. (See Mapelsden, Harold H., assignor.)
General Electric Company. (See Minor, W. F., Keller, and Ralph, assignors.)
General Electric Company. (See Moore, Roy W., assignor.)
General Electric Company. (See Porter, Willard E., assignor.)
General Electric Company. (See Runner, Claude C., assignor.)
General Electric Company. (See Ruder, William E., assignor.)
General Electric Company. (See Stephens, Howard O., assignor.)
General Electric Company. (See Stone, Fred L., assignor.)
General Electric Company. (See Taylor, William G., assignor.)
General Electric Company. (See Upp, John W., assignor.)
General Electric Company. (See Valk, Eugene E., assignor.)
General Electric Company. (See Ver Planck, William E., assignor.)
General Electric Company. (See Wilkinson, James, assignor.)
General Motors Corporation. (See De Waters, Enos A., assignor.)
General Motors Corporation. (See Whitten, Frank A., assignor.)
General Phonograph Manufacturing Company, The. (See Manson, Ray H., assignor.)
Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vehicle-searchlight. No. 1,346,489; July 13; v. 276; p. 291.
Gentile, Frank T., assignor of one-half to K. M. Kleeman, Canton, Ohio. Automatic sprinkler. No. 1,345,592; July 6; v. 276; p. 52.
George, Alexander W., assignor of one-half to S. H. Baer, Brooklyn, N. Y. Machine and method for shaping and assembling blanks. No. 1,346,490; July 13; v. 276; p. 291.
George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. No. 1,346,538; July 13; v. 276; p. 301.
George, John H., assignor, by mesne assignments, to The Hawthorne Company, Bridgeport, Conn. Electrical connection. No. 1,348,128; July 27; v. 276; p. 731.
George, John W., Stroud Green, England. Rotary internal-combustion engine. No. 1,348,103; July 27; v. 276; p. 726.
Gerbaud, Charles E., Paris, France. Sparking plug for internal-combustion engines and manufacturing same. No. 1,347,367; July 20; v. 276; p. 523.
Germaszewski, Ploter, South East Cleveland, Ohio. Wall-paper-hanging implement. No. 1,346,647; July 13; v. 276; p. 322.
Gernandt, Waldo G., Chicago, Ill. Compound quick-combustion engine. No. 1,347,087; July 20; v. 276; p. 468.
Gervasoni, Pietro, and A. Zecchini, assignors to G. Ratti, Turin, Italy. Apparatus for indicating the level of liquids at distance. No. 1,347,944; July 27; v. 276; p. 694.
Getman, David D., Minneapolis, Minn., and J. P. Sternhagen, Glasgow, Mont.; said Getman assignor to said Sternhagen. Flat-tire signal. No. 1,346,599; July 13; v. 276; p. 313.
Gibbons, Francis J., Wolverhampton, England. Metal window frame and sash of the sliding-sash type. No. 1,345,669; July 6; v. 276; p. 67.
Gibbs, Frederick H., Brooklyn, assignor to W. H. Woodin, New York, N. Y. Wheel-attaching device for mine-cars and other purposes. No. 1,346,193; July 13; v. 276; p. 232.
Gibraltar Tire & Rubber Company. (See Strang, Fred W., assignor.)
Gibson, Adelbert R., Chicago, Ill., assignor, by mesne assignments, to Essentials Mfg. Company. Headlight-lens. No. 1,346,705; July 13; v. 276; p. 334.

Gibson, Harlon O., and E. F. Ames, Wayland, N. Y.; said Gibson assignor to said Ames. Holder for motor-vehicles. No. 1,346,949; July 20; v. 276; p. 441.
Gibson, John H., Bruin, Pa. Window-sash holder. No. 1,346,449; July 13; v. 276; p. 283.
Gibson, Walter I., assignor of one-third to E. R. Greenlaw, and one-third to F. M. Mills, New Orleans, La. Sectional radiator. No. 1,347,219; July 20; v. 276; p. 493.
Gibson, William A., and C. E. Needham, Allentown, Pa. assignors to Bradley Pulveriser Company, Boston, Mass. Air-separator. No. 1,346,015; July 6; v. 276; p. 136.
Giddens, Francis, Ottawa, Ontario, Canada. Incubator No. 1,345,593; July 6; v. 276; p. 52.
Giese, Richard S., Pittsburgh, Pa. Electric side light. No. 1,348,104; July 27; v. 276; p. 727.
Gieser, Carl, and G. Shaffer, Des Moines, Iowa; said Shaffer assignor to said Gieser. Valve-grinding tool. No. 1,346,783; July 13; v. 276; p. 350.
Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
Gilbert, Joseph M. (See Carlisle, Fred B., assignor.)
Gill, Harry R., Ashland, Ohio. Machine for forming rolls on toy balloons. No. 1,346,706; July 13; v. 276; p 334.
Gilles, Albert L. (See Prince, J. A., and Gilles.)
Gilles Fuel Feeding Company. (See Gilles, Pierre P., assignor.) (Reissue.)
Gilles, Pierre P., Chicago, Ill., assignor, by mesne assignments, to Gilles Fuel Feeding Company, Holyoke, Mass. Vacuum-feed carbureter. (Reissue.) No. 14,912; July 13; v. 276; p. 354.
Gillespie, George, West View, Pa. Pantograph. No. 1,347,695; July 27; v. 276; p. 645.
Gilmore, William E. (See Robbins, L. S., and Gilmore.)
Gimson Shoe Machinery Company, The. (See Bagshaw, Charles M., assignor.)
Girardeau, Emile F., Paris, France. Dynamo for lighting and motor ignition. No. 1,346,821; July 20; v. 276; p. 415.
Girtanner, Alexander, New York, N. Y. Ash-conveyer. No. 1,346,950, July 20; v. 276; p. 441.
Glaeser, Walter, Fullerton, Pa., assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Apparatus for treating silicates. No. 1,347,024; July 20; v. 276; p. 456.
Glass, P. R., Company. (See Glass, Perley R., assignor.)
Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Seam-rubbing machine. No. 1,346,194; July 13; v. 276; p. 232.
Glass, Perley R., Brookline, assignor to P. R. Glass Company, Boston, Mass. Folding-machine. No. 1,346,195; July 13; v. 276; p. 232.
Glaudel, George, Los Angeles, Calif. Windshield attachment. No. 1,346,402; July 13; v. 276; p. 273.
Glaze, Herbert L. (See Routt, O. L., G. C. McConnell, and Glaze.)
Gleiche, Carl, assignor to Stock Motorpflug Gesellschaft mit Beschrankter Haftung, Berlin, Germany. Mold-board for plows. No. 1,346,600; July 13; v. 276; p. 313.
Glenn, George M. (See Hormel, George W., assignor.)
Glenn, Thomas F., Ardmore, Pa., assignor to The S. S. White Dental Manufacturing Company. Mold for forming artificial teeth. No. 1,346,951; July 20; v. 276; p. 441.
Glennon, Edward, Brooklyn, N. Y. Flush-valve. No 1,345,920; July 6; v. 276; p. 117.
Glidden, Earl D. (See Mahana, C. G., Glidden, and Laurent.)
Gloppe, Jean M., Lyon, France. Desk. No. 1,347,025; July 20; v. 276; p. 456.
Glover, Newton L., Windom, Minn. Tree and log sawing machine. No. 1,347,504; July 27; v. 276; p. 607.
Godard, Joseph J., Mobile, Ala. Umbrella-holder. No. 1,347,540; July 27; v. 276; p. 614.
Godefroy, Marie L., Paris, France. Exposure-meter. No 1,346,088; July 6; v. 276; p. 151.
Godfrey, Harold H., Los Angeles, Calif. Apparatus for extracting metal from ores and the like. No. 1,347,026; July 20; v. 276; p. 456.
Godley, Charles E., assignor to Edmunds and Jones Corporation, Detroit, Mich. Parabolic sectional reflector. No. 1,347,268; July 20; v. 276; p. 504.
Goertz, August, and Company. (See Goertz, F., and Whitcomb, assignors.)
Goertz, Frederick, Newark, and R. Whitcomb, Elizabeth, N. J., assignors to August Goertz and Company. Container. No. 1,345,359; July 6; v. 276; p. 6.
Goertz, Frederick, Newark, and R. Whitcomb, Elizabeth, N. J. Container. No. 1,345,360; July 6; v. 276; p. 7.
Gold, Anna, Fredericksburg, Tex. Combination-garment. No. 1,345,763; July 6; v. 276; p. 85.
Gold, Frank S., Toronto, Ontario, Canada. Windshield-cleaner. No. 1,347,628; July 27; v. 276; p. 632.
Goldberg, Solomon H., assignor to The West Coast Roofing and Manufacturing Company, Chicago, Ill. Producing roofing material. No. 1,345,922; July 6; v. 276; p. 117.
Golden Glow Sign Corporation. (See Limpert, Alexander S., assignor.)
Goldschmidt, Victor M., assignor, by mesne assignments, to Titan Co. A./S., Christiania, Norway. Compound of titanium and manufacture of same. No. 1,348,129; July 27; v. 276; p. 731.
Goldsmith, Alfred N., New York, N. Y., assignor to General Electric Company. Radiosignaling system. No. 1,347,328; July 20; v. 276; p. 516.
Goldstein, Alexander. (See Moran, Walter R., assignor.)
Golly, Louis, Brooklyn, assignor of fifty-one per cent. to A. Albright, Jr., New York, N. Y. Bearing. No. 1,346,121; July 13; v. 276; p. 218.
Gomsrud, Axel, Portland, Oreg. Concrete construction. No. 1,346,016; July 6; v. 276; p. 136.
Gondek, John, St. Paul, Minn. Printing apparatus. No. 1,347,505; July 27; v. 276; p. 607.
Good Inventions Co. (See Good, John, assignor.)
Good Inventions Co. (See Lucke, C. E., and Good, assignors.)
Good, John. (See Lucke, C. E., and Good.)
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Heating apparatus. No. 1,345,361; July 6; v. 276; p. 7.
Goodchild, Euclid P., Spokane, Wash. Signal for motor-vehicles. No. 1,347,945; July 27; v. 276; p. 694.
Goodlake, Frederick D., Memphis, Tenn. Manifold-heater. No. 1,346,745; July 13; v. 276; p. 342.
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodman, Milton, New York, N. Y. Toy book. No. 1,346,017; July 6; v. 276; p. 136.
Goodyear Tire & Rubber Company, The. (See Roth, Charles H., assignor.)
Goodwirth, Emil, St. Louis, Mo. Writing and engrossing ink. No. 1,347,454; July 20; v. 276; p. 540.
Gordon, David L., New York, N. Y. Lock-operated circuit-closer. No. 1,347,506; July 27; v. 276; p. 607.
Goreau, Nelson G., New Orleans, La. Water-heater. No. 1,346,952; July 20; v. 276; p. 442.
Gorsuch, H. A., *et al.* (See Johnson, Albert S., assignor.)
Gossage, Charles C., Birmingham, England. Bolt-fastening for the lids of boxes, cases, and other receptacles having lids. No. 1,346,450; July 13; v. 276; p. 283.
Goudy, George M., Goshen, Ind. Cushion-tire. No. 1,348,105; July 27; v. 276; p. 727.
Gould, Edward R., New York, N. Y. Doll. No. 1,346,953; July 20; v. 276; p. 442.
Grabau, Hans E., Long Island City, and A. C. Schwartz, New York, N. Y.; said Grabau assignor to said Schwartz. Tire-casing. No. 1,347,847; July 27; v. 276; p. 675.
Grabau, Hans E., and A. C. Schwartz, New York, N. Y., said Grabau assignor to said Schwartz. Tire-casing fabric and making same. No. 1,347,848; July 27; v. 276; p. 676.
Grady, Patrick S. (See Casper, Frank, assignor.)
Graffenberger, Friedrich, Milwaukee, Wis. Sprinkling-spoon. No. 1,347,902; July 27; v. 276; p. 687.
Graham, John G., Granite City, Ill. Sheet-metal-doubling machine. (Reissue.) No. 14,907; July 6; v. 276; p. 154.
Grant, W. S., *et al.* (See Johnson, Albert S., assignor.)
Gray, George F., Pittsburgh, Pa. Fair-lead. No. 1,346,539; July 13; v. 276; p. 301.
Gray, George F., Pittsburgh, Pa. Signaling apparatus. No. 1,346,540; July 13; v. 276; p. 301.
Gray, Charles F., Sierra Madre, Calif., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,346,884; July 20; v. 276; p. 428.
Gray & Davis. (See Moses, William B., assignor.)
Greble, Florence C., New York, N. Y. Mailing-frame. No. 1,347,269; July 20; v. 276; p. 504.
Green, Charles F., Defiance, Ohio. Fuel-feed system. No. 1,346,196; July 13; v. 276; p. 232.
Green, Charles E., St. Augustine, Fla. Oil-burner. No. 1,347,458; July 20; v. 276; p. 541.
Green, Frederick M., and S. D. Heron, assignors to Sidderley-Deasy Motor Car Company Limited, Parkside, Coventry, England. Bearing for connecting coaxial shafts. No. 1,347,220; July 20; v. 276; p. 493.
Green, Harry J., Sebring, Ohio. Mantle-ring-forming machine. No. 1,345,845; July 6; v. 276; p. 101.
Green, Herman H., Salt Lake City, Utah. Vehicle-tire rim. No. 1,345,670; July 6; v. 276; p. 67.
Green, Isaac, Manchester, N. H. Crochet-needle. No. 1,347,027; July 20; v. 276; p. 456.
Green, Michael B., Memphis, Tenn. Compression-box for oil-presses. No. 1,347,455; July 20; v. 276; p. 540.
Green, Michael B., Memphis, Tenn. Compression-box for oil-presses. No. 1,347,456; July 20; v. 276; p. 540.
Green, Nathan F., East Haven, and J. Peterka, Shelton, Conn. Drinking-fountain. No. 1,346,122; July 13; v. 276; p. 219.
Green, Richard D., Seattle, Wash. Milk-can holder and protector. No. 1,346,451; July 13; v. 276; p. 283.
Greenabaum, Alexander L. (See Priest, H. M., Ford, Greenabaum, and Richardson.)
Greenawalt, William E., Denver, Colo. Extracting metals from their ores. No. 1,345,846; July 6; v. 276; p. 102.
Greenawalt, William E., Denver, Colo. Electrolytic apparatus. No. 1,347,088; July 20; v. 276; p. 468.
Greenawalt, William E., Denver, Colo. Apparatus for treating liquids with gases. No. 1,347,089; July 20; v. 276; p. 469.
Greenfield Tap and Die Corporation. (See Wells, Frank O., assignor.)
Greening, Eldridge, *et al.* (See Tullis, John T., assignor.)
Greenlaw, Edward R., *et al.* (See Gibson, Walter I., assignor.)

Greenleaf, George E., Plainfield, N. J., assignor to Niles Bement-Pond Company, New York, N. Y. Headstock bearing for lathes. No. 1,345,671; July 6; v. 276 p. 67.

Greenwald, Jacob J., Sheboygan, Wis. Window-screen. No. 1,347,946; July 27; v. 276; p. 695.

Grgic, Ivan, Conway, Pa. Toy. No. 1,347,696; July 27; v. 276; p. 645.

Grierson, John G., Richmond, Calif. Eccentric bushing for steam-radiators. No 1,346,403; July 13; v. 276; p. 273.

Griffey, Andrew M., Meeker, Okla. Antisetting device. No. 1,346,954; July 20; v. 276; p. 442.

Griffin, Francis B. (See Darby, John, assignor.)

Griffith, Albert W., Pittsburgh, Pa. Gearing. No. 1,345,847; July 6; v. 276; p. 102.

Griffiths, William U., Philadelphia, Pa. Inlet-valve for water-closet tanks. No. 1,347,507; July 27; v. 276; p. 607.

Grigg, Thomas H., Philadelphia, Pa. Sound-amplifying device. No. 1,346,491; July 13; v. 276; p. 291.

Grikscheit, William, Detroit, Mich. Vehicle-wheel rim. No. 1,348,137; July 27; v. 276; p. 733.

Grob, Arnold, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Apparatus for producing pressed-metal articles. No. 1,345,594; July 6; v. 276; p. 53.

Gross, Elmer J. (See Arnold, G. A., and Gross.)

Gross, Frank, Louisville, Colo. Brush-cutter. No. 1,346,197; July 13; v. 276; p. 232.

Grover, Albert D., New York, N. Y., and E. E. Barber, Boston, Mass., assignors, by mesne assignments, to Autosales Corporation. Vending-machine. (Reissue.) No. 14,925; July 27; v. 276; p. 735.

Grower, George G., Ansonia, Conn. Registering apparatus. No. 1,346,100; July 6; v. 276; p. 153.

Gruban, John G. W., *et al.* (See Dabbs, A. E., Savage, and Hindle, assignors.)

Grubb, Thomas, Johnston City, Ill. Mail-handling apparatus. No. 1,346,018; July 6; v. 276; p. 136.

Grupe, Roy M., assignor of one-half to L. A. Henter, Broadview, Mont. Electrically-controlled lever-lock. No. 1,346,746; July 13; v. 276; p. 342.

Gstalder, Paul A., Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining. No. 1,347,028; July 20; v. 276; p. 457.

Gstalder, Paul A., Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 1,347,029; July 20; v. 276; p. 457.

Gstalder, Paul A., Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 1,347,030; July 20; v. 276; p. 457.

Gueldenhaar, Bernhard F. C., Flanagan, Ill. Seeder. No. 1,345,362; July 6; v. 276; p. 7.

Guerrilch, Frederick C., Stamford, Conn. Internal-combustion engine. No. 1,346,123; July 13; v. 276; p. 219.

Guerrlich, Frederick C., Stamford, Conn. Internal-combustion engine. No. 1,346,124; July 13; v. 276; p. 219.

Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,347,629; July 27; v. 276; p. 632.

Guldager, Walter E. (See Jantsch, H., and Guldager.)

Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Key-mount for wind musical instruments. No. 1,345,486; July 6; v. 276; p. 31.

Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Die for making valve-casings for wind-musical-instrument valves. No. 1,345,921; July 6; v. 276; p. 117.

Gunturiz y Santos, Nicolás, assignor of one-half to A. M Caraballo, Sagua la Grande, Santa Clara, Cuba. Juice-extractor. No. 1,345,963; July 6; v. 276; p. 126.

Gustafson, August J., Maywood, Ill. Furniture. No. 1,346,955; July 20; v. 276; p. 442.

Gutzwiller, Herbert, Schonenwerd, Switzerland, assignor of one-half to T. Buess, Liestal, Switzerland. Feeding polyphase-current circuits with monophase current. No. 1,347,457; July 20; v. 276; p. 541.

Guy, Henry L. (See Baumann, K., Guy, and Winning.)

Guy, Henry L., Manchester, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Attachment of moving blades of elastic-fluid turbines. No. 1,347,031; July 20; v. 276; p. 457.

Gwyer, Herbert J., Yonkers, N. Y. Refrigerator construction and removable leg. No. 1,345,764; July 6; v. 276 p. 86.

Gyton, Thomas H., Collingwood, Victoria, Australia. Non-skid protector. No. 1,347,368; July 20; v. 276; p. 523.

H. & H. Patent Developing Company. (See Hebern, Edward H., assignor.)

H-P Company, The. (See Place, Roland P., assignor.)

Haag, Philip, Brooklyn, N. Y. Attachment for shoes. No. 1,346,019; July 6; v. 276; p. 137.

Habbart, John, Prairie du Chien, Wis. Grain and hay stacker. No. 1,346,020; July 6; v. 276; p. 137.

Haberman, Charles, North Bergen, assignor to Oscar Schmidt, Inc., Jersey City, N. J. Playing device for stringed musical instruments. No. 1,346,707; July 13; v. 276; p. 334.

Hack, Frank W., Chicago, Ill. Reamer. No. 1,347,740; July 27; v. 276; p. 654.

Hackett, Paul J., assignor to Universal High-Power Telephone Co., Seattle, Wash. Signaling-circuit. No. 1,347,849; July 27; v. 276; p. 676.

Hackett, Paul J., assignor to Universal High-Power Telephone Co., Seattle, Wash. Despatcher's telephone apparatus. No. 1,347,850; July 27; v. 276; p. 676.

Hadaway, John B. (See Loring, Waldo F., assignor.)

Haden, Anton, Clay Center, Kans. Horseshoe. No. 1,347,630; July 27; v. 276; p. 632.

Haden, Elbridge G., Charlottesville, Va. Artificial limb. No. 1,347,947; July 27; v. 276; p. 695.

Hadfield, Robert A., Westminster, England. Manufacture of steel. No. 1,347,741; July 27; v. 276; p. 655.

Hadrich, George, Highland Park, assignor of one-third to T. C. Betzoldt and one-third to M. W. Benjamin, Detroit, Mich. Spark-plug. No. 1,345,765; July 6; v. 216; p. 86.

Haefele, John F., Bridgeport, Conn. Machine for carding safety-pins. No. 1,347,851; July 27; v. 276; p. 676.

Haefliger, Herman, North Platte, Nebr. Balance-pivot straightener. No. 1,347,155; July 20; v. 276; p. 481.

Haerle, Hans. (See Reavell, W., and Haerle.)

Hager, William R., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Method of and apparatus for supplying heated liquids. No. 1,345,924; July 6; v. 276; p. 118.

Hahn, George F., New York, N. Y. Pen and pencil clip. No. 1,347,090; July 20; v. 276; p. 469.

Hain, Albert J., Lakewood, Ohio. Preparing printing-plates. No. 1,346,885; July 20; v. 276; p. 428.

Haines, Jones & Cadbury Incorporated. (See Sharp, Joseph W., Jr., assignor.)

Hale, Perry T. W., Portland, assignor to M. C. Hillery, Hartford, Conn. Toy aeroplane. No. 1,346,956; July 20; v. 276; p. 442.

Haley, Robert E. (See Van Vleet, C. W., and Haley.)

Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Thermostatic regulator. No. 1,347,329; July 20; v. 276; p. 516.

Hall, Claud L. (See Lee, R., and Hiatt, assignors.)

Hall, Joseph M. (See Sherman, F. A., and Hall.)

Hall, William P., Cedar Falls, N. C. Match-scratcher. No. 1,347,948; July 27; v. 276; p. 695.

Hallam, Frank. (See Hanstine, Harry S., assignor.)

Halpern, Carl. (See Zeidler, F. W., and Halpern.)

Halsey, James T., deceased, S. M. M. Halsey, Philadelphia, Pa., administratrix. Brake. No. 1,348,106; July 27; v. 276; p. 727.

Halsey, Sue M. M., administratrix. (See Halsey, James T.)

Halverson, Lars B., Sioux Falls, S. D. Posting-tray. No. 1,346,886; July 20; v. 276; p. 429.

Ham, William D., Chicago, Ill. Concrete-road-building machine. No. 1,345,925; July 6; v. 276; p. 118.

Hamel Shoe Machinery Company. (See Pettengill, George M., assignor.)

Hamill, James, Lambertville, N. J., assignor to Asbestos Protected Metal Company, Pittsburgh, Pa. Apparatus for producing protected metal sheets having perforated fibrous layers. No. 1,347,852; July 27; v. 276; p. 677.

Hamilton, Clayton R., Panora, Iowa. Self-feeder for swine. No. 1,346,784; July 13; v. 276; p. 350.

Hamilton, Eddie H., Washington, D. C. Pulley-plate. No. 1,346,747; July 13; v. 276; p. 342.

Hamilton, George M. (See Tygard, H. L., and Hamilton.)

Hamilton, Robert, and E. J. Reimel, Birmingham, Ala. Drag-car. No. 1,345,439; July 6; v. 276; p. 22.

Hamlin, John H., New York, N. Y. Vegetable-peeler. No. 1,347,091; July 20; v. 276; p. 469.

Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Bottle-closure. No. 1,345,363; July 6; v. 276; p. 7.

Hammond, Elmer H. (See Hathaway, L. N., Twombly, and Hammond.)

Hammond, James. (See Hammond, Winslow A. and J.)

Hammond, John H., Jr., Gloucester, Mass. Emergency launching system for torpedoes. No. 1,347,092; July 20; v. 276; p. 469.

Hammond, Laurens, Detroit, Mich. Method and apparatus for indicating heat. No. 1,345,767; July 6; v. 276; p. 86.

Hammond, Metta, administratrix. (See Hammond, Winslow A., and J.)

Hammond, William P., Passaic, N. J., and E. Q. Moses, New York, N. Y. Illuminated sign. No. 1,346,493; July 13; v. 276; p. 292.

Hammond, Winslow A., deceased, and J. Hammond, Randolph, Nebr.; M. Hammond, administratrix. Film-developing device. No. 1,347,032; July 20; v. 276; p. 457.

Hammonds, Laurens, Detroit, Mich. Clock. No. 1,345,766; July 6; v. 276; p. 86.

Hammons, Samuel A., Leesville, La. Rail-joint. No. 1,348,107; July 27; v. 276; p. 727.

Hamrick, Martin D., assignor of one-half to A. E. Young, Chehalis, Wash. Draft-hook. No. 1,347,369; July 20; v. 276; p. 524.

Hanauer, Michael, Tolland, Mass. Sap-spout and cover. No. 1,347,270; July 20; v. 276; p. 504.

Hancock, Frank R., and R. F. Hoffman, Kenosha, Wis. Steering-wheel. No. 1,347,156; July 20; v. 276; p. 481.

Hancock, Thomas F., assignor to The Seymour Metal Goods Company, Seymour, Conn. Hose-supporter. No. 1,346,648; July 13; v. 276; p. 323.

Hand, Edgar K., assignor of one-third to C. T. Brown, Chicago, Ill. Installing water-front walls. No. 1,347,459; July 20; v. 276; p. 541.

Hand, Erle H., Baltimore, Md. Tone-arm for talking-machines. No. 1,345,487; July 6; v. 276; p. 31.

Hand, Erle H., Baltimore, Md. Sound-conduit. No. 1,346,649; July 13; v. 276; p. 323.

Hand, Thomas W., assignor to Davy Brothers Limited, Sheffield, England. Steam hydraulic intensifier. No. 1,346,198; July 13; v. 276; p. 233.

Haumer, Laurence G., Brooklyn, assignor to The A–Z Company, New York, N. Y. Automobile-radiator and making same. No. 1,346,492; July 13; v. 276; p. 292.

Häuni, Ernst, Arbon, and H. Stamm, St. Gallen, assignors to Firme Adolphe Saurer, Arbon, Switzerland. Automatic rifle. No. 1,346,494; July 13; v. 276; p. 292.

Hannum, Harry A., Springfield, Mass., assignor to Winchester Repeating Arms Co., New Haven, Conn. Roller-skate wheel. No. 1,347,777; July 27; v. 276; p. 662.

Hansen, Albert E., Elkhart, Ind. Expander. No. 1,346,957; July 20; v. 276; p. 442.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Throttle-valve. No. 1,345,364; July 6; v. 276; p. 7.

Hanson, Bengt M. W., Hartford, Conn. Metal-working machine. No. 1,346,822; July 20; v. 276; p. 416.

Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Drop-table mechanism for milling-machines. No. 1,347,778; July 27; v. 276; p. 662.

Hanson, Earl C., Washington, D. C. Apparatus on aircraft for receiving and delivering mail and merchandise. No. 1,347,157; July 20; v. 276; p. 481.

Hanson, John E., St. Paul, Minn. Carpet-beater. No. 1,347,949; July 27; v. 276; p. 695.

Hanson, Walter M., Kenosha, Wis. Method and apparatus for inserting eye-bushings. No. 1,346,199; July 13; v. 276; p. 233.

Hanstine, Harry S., Ambridge, assignor of one-half to F. Hallam, Fair Oaks, Pa. Molding apparatus. No. 1,347,093; July 20; v. 276; p. 469.

Harbaugh, William F., Lakota, N. D. Reel. No. 1,347,697; July 27; v. 276; p. 645.

Hardcastle, Harry K. (See Bright, G., Holy, and Hardcastle.)

Harden, Harry, London, Ohio. Combined door holder and stop. No. 1,348,108; July 27; v. 276; p. 727.

Harden, Harry, London, Ohio. Vehicle-shaft support. No. 1,348,109; July 27; v. 276; p. 728.

Harding, Marcelle J., New York, N. Y. Toilet-accessory container. No. 1,346,541; July 13; v. 276; p. 301.

Hardware Specialty Co. (See Abbott, Percy C., assignor.)

Hardy, Charles, *et al.* (See Service, William F., assignor.)

Hardy, Emery E., Brooklyn, N. Y. Roller-skate. No. 1,345,848; July 6; v. 276; p. 102.

Harkins, Thomas L., Boston, Mass. Tire-spreader. No. 1,345,849; July 6; v. 276; p. 102.

Harland, Silas E., Ocean View, Va. Internal-combustion engine. No. 1,347,094; July 20; v. 276; p. 469.

Harlow, Fred, *et al.* (See Pickup, George E., assignor.)

Hart, Stanley D., *et al.* (See Bridges, William H., assignor.)

Harriman, Seelye P. (See Russell, E. A., and Harriman.)

Harrington, Grover C. (See Hevel, F., Harrington and Hevel.)

Harris, Albert S., New York, N. Y. Diagnostic instrument. No. 1,346,200; July 13; v. 276; p. 233.

Harris, Arthur W., Sleepy Eye, Minn. Carton-packing mechanism. No. 1,345,926; July 6; v. 276; p. 118.

Harris, Arthur W., Sleepy Eye, Minn. Machine for making paper boxes. No. 1,347,853; July 27; v. 276; p. 677.

Harris, Raymond J., Camp Travis, Tex. Sanitary fly catcher and trap. No. 1,346,021; July 6; v. 276; p. 137.

Harrison, Arthur C., Alsager, England. Sifter for treating potters' slip, powdered substances, and the like. No. 1,346,452; July 13; v. 276; p. 284.

Harrison, Arthur B., New York, N. Y. Waterproof fabric and producing same. No. 1,347,095; July 20; v. 276; p. 469.

Harroun Motors Corporation. (See Harroun, Ray, assignor.)

Harroun, Ray, Highland Park, assignor to Harroun Motors Corporation, Wayne, Mich. Fan adjustment. No. 1,348,002; July 27; v. 276; p. 706.

Harshfield, John, Sutherland, Nebr. Liquid composition for the treatment of binding-twine. No. 1,347,508; July 27; v. 276; p. 608.

Hart, Charles A., Seattle, Wash. Oil-burner. No. 1,346,373; July 13; v. 276; p. 268.

Hart & Hegeman Manufacturing Company. (See Guett, Monroe, assignor.)

Hartman-Townsend Company. (See Townsend, Delbert G., assignor.)

Hartman, William L., Palmyra, Ind. Table attachment for bedsteads. No. 1,347,271; July 20; v. 276; p. 505.

Hartshorn, Willis N., Racine, Wis. Drying, mixing, and kneading machine. No. 1,345,542; July 6; v. 276; p. 43.

Hartsough, Ralph B., Minneapolis, Minn. Tractor. No. 1,348,003; July 27; v. 276; p. 706.

Hartung, Felix. (See Pihlfeldt, T. G., and Hartung.)

Hartung, Felix C. (See Pihlfeldt, T., and Hartung.)

Hartwig, William J. (See Cullin, Jasper F., assignor.)

Harvey, Alden W., *et al.* (See Erik, Emil, assignor.)

Hasbrook, Roy, New York, N. Y. Sanitary teeth-cleaner. No. 1,346,125; July 13; v. 276; p. 219.

Haskelite Manufacturing Corporation. (See Basquin, Olin H., assignor.)

Haslett, John T., Winchester, Kans. Wrench. No. 1,345,850; July 6; v. 276; p. 102.

Hassel, William G., Waterbury, Conn. Fuse remover and placer. No. 1,346,022; July 6; v. 276; p. 137.

Hasskarl, William S., Philadelphia, Pa. Stilt. No. 1,348,110; July 27; v. 276; p. 728.

Hasselbaum, Oscar H., Fresno, Calif. Timer for internal-combustion engines. No. 1,347,370; July 20; v. 276; p. 524.

Hasselstrom, Ivar S., Chicago, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind. Feeding device for punch-presses. No. 1,346,089; July 6; v. 276; p. 151.

Hassler, Paul M., assignor to The Louden Machinery Company, Fairfield, Iowa. Track for overhead carriers. No. 1,346,313; July 13; v. 276; p. 257.

Hassler, Paul M., and A. H. Neller, assignors to The Louden Machinery Company, Fairfield, Iowa. Track for overhead carriers. No. 1,345,851; July 6; v. 276; p. 102.

Hastings, Harold P., and J. J. Dossert, assignors to Crouse-Hinds Company, Syracuse, N. Y. Electrical appliance. No. 1,345,768; July 6; v. 276; p. 86.

Hastings, Ruben C. M., assignor to The International Telephone Company, Columbus, Ohio. Telephonic call system. No. 1,345,852; July 6; v. 276; p. 103.

Hatfield, Henry S., and G. Hookham, Birmingham, England. Electrolytic meter. No. 1,346,090; July 6; v. 276; p. 151.

Hathaway, Louis N., M. W. Twombly, and E. H. Hammond, Laconia, N. H. Cutter-bar. No. 1,347,330; July 20; v. 276; p. 516.

Hatten, William T., Hay Creek, Oreg. Ax-handle shield and fastening. No. 1,347,371; July 20; v. 276; p. 524.

Havenstrite, Charles D., Chicago, Ill. Oscillating-type compressor. No. 1,346,404; July 13; v. 276; p. 273.

Haverty, John M., trustee. (See Brigel, Samuel G., assignor.)

Hawley, De Forest, Johnson City, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Thread-controlling mechanism. No. 1,347,810; July 27; v. 276; p. 668.

Hawthorne Company, The. (See George, John H., assignor.)

Hawvichorst, Henry J., Tulare, Calif. Pneumatic pump. No. 1,347,033; July 20; v. 276; p. 457.

Hays, Franklin B., Indianapolis, Ind. Carbureter. No. 1,346,201; July 13; v. 276; p. 233.

Hayes, Ora O., Minneapolis, Minn. Roof-peak. No. 1,347,541; July 27; v. 276; p. 614.

Hayes, Thomas R., and L. E. Kitson, Portland, Oreg. Rail-rack. No. 1,345,769; July 6; v. 276; p. 87.

Hayes, Walter H. London, England. Internal-combustion engine. No. 1,345,927; July 6; v. 276; p. 118.

Hayford, Eugene S., New Orleans, La. Pneumatic-tire inflator. No. 1,348,111; July 27; v. 276; p. 728.

Haynes, Charles M., Chillicothe, Ohio, assignor to American Optical Company, Southbridge, Mass. Finger-piece mounting for eyeglasses. No. 1,345,488; July 6; v. 276; p. 32.

Hazard, Allen B., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Conveying mechanism. No. 1,346,314; July 13; v. 276; p. 257.

Hazen, Clarence A., Talent, Oreg. Dustpan. No. 1,346,958; July 20; v. 276; p. 443.

Head, Ernest C., Rochester, N. Y., assignor to Colburn Machine Tool Company, Franklin, Pa. Operating device for the turrets of machine-tools. No. 1,345,770; July 6; v. 276; p. 87.

Headley, John W., Long Beach, Calif. Resilient wheel. No. 1,347,034; July 20; v. 276; p. 458.

Heald, George W., Chicago, Ill. Valve. No. 1,346,887; July 20; v. 276; p. 429.

Heany, John A., Flint, Mich., assignor, by mesne assignments, to Industrial Research Corporation. Means for supplying lighting and ignition current for automotive vehicles. No. 1,347,460; July 20; v. 276; p. 541.

Heatley, Thomas E. (See Jones, Joseph H., assignor.)

Hebern, Edward H., assignor to H & H Patent Developing Company, Oakland, Calif. Direction-prelndicator. No. 1,346,453; July 13; v. 276; p. 284.

Hebert, Ignatieus A., assignor to The Hebert Life Saving Device Co., Inc., New Orleans, La. Life-saving device. No. 1,347,372; July 20; v. 276; p. 524.

Hebert Life Saving Device Co., The. (See Hebert, Ignatieus A., assignor.)

Hecht, Frank A., Jr., Chicago, Ill. Oiling system for elevators. No. 1,347,854; July 27; v. 276; p. 677.

Hecht, Joseph, Brooklyn, N. Y. Rotatable wicket. No. 1,346,823; July 20; v. 276; p. 416.

Heck, Charles M., Raleigh, N. C. Automatic phonograph. No. 1,347,096; July 20; v. 276; p. 470.

Hedges, Anthony B., Brunswick, Md. Locomotive-tire limit-of-wear gages. No. 1,346,748; July 13; v. 276; p. 342.

Hein, Paul P., New York, N. Y. Headlight-dimmer. No. 1,346,708; July 13; v. 276; p. 334.

Heinel, John, Rockford, Ill. Body structure for traveling bags, cases, and the like. No. 1,346,495; July 13; v. 276; p. 292.

Heinrich, Frank J., Yakima, Wash. Bearing-puller. No. 1,346,023; July 6; v. 276; p. 137.

Heintz, James C., and G. Ruf, Cleveland, Ohio; said Ruf assignor to said Heintz. Vulcanizer. (Reissue.) No. 14,913; July 13; v. 276; p. 355.

Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control for dynamo-electric machines. No. 1,347,903; July 27; v. 276; p. 687.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regenerative control for alternating-current commutator-motors. No. 1,347,904; July 27; v. 276; p. 687.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,347,905; July 27; v. 276; p. 687.

Helpling, James E., Los Angeles, Calif. Windshields for side cars of motorcycles. No. 1,347,461; July 20; v. 276; p. 542.

Helt, Edward H., Bellevue borough, Pa. Coin-operated mechanism. No. 1,347,742; July 27; v. 276; p. 655.

Heiwitz, Ellis S., Brooklyn, N. Y. Shoe-heel. No. 1,346,709; July 13; v. 276; p. 334.

Henckler, William, St. Louis, Mo. Automobile-lock. No. 1,345,672; July 6; v. 276; p. 67.

Hendershott, Chauncey M., Horneli, N. Y. Elevating-truck. No. 1,346,710; July 13; v. 276; p. 335.

Hendrickson, John H., assignor to The Hendrickson Machine Company, Cleveland, Ohio. Gearing for laundry machinery. No. 1,347,221; July 20; v. 276; p. 494.

Hendrickson, John H., and R. E. Frizzell, Cleveland, Ohio; said Frizzell assignor to said Hendrickson. Ice-cream-cutting machine. No. 1,346,405; July 13; v. 276; p. 274.

Hendrickson Machine Company, The. (See Hendrickson, John H., assignor.)

Hendrickson, William A., assignor to McWhorter Manufacturing Company, Riverton, N. J. Fertilizer-distributer. No. 1,346,650; July 13; v. 276; p. 323.

Hendron, James M., Springfield, Ill. Automatic injector. No. 1,347,035; July 20; v. 276; p. 458.

Henger, Edwin W., assignor to The Chase Companies, Inc., Waterbury, Conn. Terminal post for battery-carbons. No. 1,345,853; July 6; v. 276; p. 103.

Henke, Frank R. (See Driggs, G. W., and Henke.)

Henrikson, Bernhardt, Chicago, Ill. Hose-clamp tool. No. 1,347,579; July 27; v. 276; p. 622.

Henry, Charles A., Paris, France. Rail-fastening. No. 1,348,112; July 27; v. 276; p. 728.

Henry, Emile, Paris, France, assignor to Societe Anonyme Des Hauts-Fourneaux et Fonderies de Pont-A-Mousson, Meurthe et Moselle, France. Pavement. No. 1,347,855; July 27; v. 276; p. 677.

Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Press-plate for cotton-seed and other oil presses. No. 1,348,004; July 27; v. 276; p. 706.

Hensai, Elmer A., Panora, Iowa. Non-skid device. No. 1,346,785; July 13; v. 276; p. 350.

Henson, John C., Zwolle, La. Shade-bracket. No. 1,346,749; July 13; v. 276; p. 342.

Henson, John H., Firebaugh, Calif. Knife. No. 1,347,036; July 20; v. 276; p. 458.

Henter, Leo A. (See Grupe, Roy M., assignor.)

Henwood, Abraham, Cynwyd, Pa. Oxidizing ammonia to nitric acid. No. 1,347,158; July 20; v. 276; p. 482.

Henwood, Abraham, Cynwyd, Pa. Oxidizing ammonia to nitric acid. No. 1,347,159; July 20; v. 276; p. 482.

Henwood, Abraham, Cynwyd, Pa. Catalytically combining gases. No. 1,347,160; July 20; v. 276; p. 482.

Hepworth, S. S., Company *et al.* (See Mackintosh, Edward D., assignor.)

Herbert, Pitt H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,347,462; July 20; v. 276; p. 542.

Herd, W. M., *et al.* (See Johnson, Albert S., assignor.)

Heron, Sam D. (See Green, F. M., and Heron.)

Herck, Jean, New York, N. Y., assignor to La Societe Lyonnaise Des Rechauds Catalytiques, Camell, Cochet, Gritte & Cie., Lyon, France. Catalytic heating apparatus. No. 1,347,631; July 27; v. 276; p. 632.

Herman, William M., San Jose, Calif. Spray-nozzle. No. 1,346,750; July 13; v. 276; p. 343.

Herminghuysen, Christ., Van Wert, Ohio. Railway-tie. No. 1,346,651; July 13; v. 276; p. 323.

Herr, Herbert T., Pittsburgh, Pa. Transmission mechanism. No. 1,346,888; July 20; v. 276; p. 429.

Herrin, E. F., *et al.* (See Porter, Frank S., assignor.)

Herring, Samuel R., Delhi, La. Plow. No. 1,346,751; July 13; v. 276; p. 343.

Herrmann, Arthur L., Detroit, Mich. Armband. No. 1,346,374; July 13; v. 276; p. 268.

Hess-Bright Manufacturing Company. (See Hottinger, Emil, assignor.)

Hess-Bright Manufacturing Company. (See Sherman, Cortis F., assignor.)

Hevel, Frank, G. C. Harrington, and Wm. Hevel, McCune, Kans. Corn-planter. No. 1,348,130; July 27; v. 276; p. 732.

Hevel, William. (See Hevel, F., Harrington, and Hevel.)

Hewett, John R., Schenectady, N. Y. Breach-mat. No. 1,345,771; July 6; v. 276; p. 87.

Hiatt, Charles A. (See Lee, R., and Hiatt.)

Hibner, Philip D., Seattle, Wash. Throttle-valve. No. 1,345,772; July 6; v. 276; p. 87.

Hibner, Philip D., Seattle, Wash. Rotary engine. No. 1,345,773; July 6; v. 276; p. 88.

Hicks, John, Calgary, Alberta, Canada. Ore-separator. No. 1,346,824; July 20; v. 276; p. 416.

Hidalgo, Oscar, Valparaiso, Chile. Duplicator. No. 1,347,743; July 27; v. 276; p. 655.

Higham, Harold. (See Bayles, E. A., and Higham.)

Highkin, David S., Baltimore, Md. Dental bridgework. No. 1,345,595; July 6; v. 276; p. 53.

Hilfiker, August, Salem, Oreg. Prune-treating machine. No. 1,346,315; July 13; v. 276; p. 257.

Hilger, Adam, Limited. (See Twyman, Frank, assignor.)

Hill, Chester L., Lancaster, Pa. Bleaching asbestos. No. 1,346,316; July 13; v. 276; p. 257.

Hill, James D., Scottdale, Pa. Internal-combustion engine. No. 1,347,856; July 27; v. 276; p. 678.

Hill, James D., Scottdale, Pa. Airplane. No. 1,347,857; July 27; v. 276; p. 678.

Hill, Robert R., Verona, N. J. Spark-plug. No. 1,345,440; July 6; v. 276; p. 22.

Hillery, Martin C. (See Hale, Perry T. W., assignor.)

Hilliker, Edwin E., East Aurora, N. Y. Liquid-fuel burner. No. 1,347,858; July 27; v. 276; p. 678.

Hills, George T., Chicago, Ill. Universal lock and release for pulleys. No. 1,345,673; July 6; v. 276; p. 68.

Hilsee, Charles M., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,347,097; July 20; v. 276; p. 470.

Hilty, Frederick, Waukegan, assignor to L. R. Wilder, Cook county, Ill. Cast puppet-valve. No. 1,347,542; July 27; v. 276; p. 614.

Hinckley, Arthur T., Niagara Falls, N. Y., assignor to National Carbon Company, Inc. Refractory composition and making same. No. 1,346,959; July 20; v. 276; p. 443.

Hindle, Alfred H. (See Dabbs, A. E., Savage, and Hindle.)

Hinds, Sherwood, Fort Wayne, Ind. Curb-pump. No. 1,345,774; July 6; v. 276; p. 88.

Hiner, Ora W., and D. C. and E. A. Farnham, Jr., Butler, Ind. Animal-feeder. No. 1,346,024; July 6; v. 276; p. 137.

Hiner, Ora W., and D. C. and E. A. Farnham, Jr., Butler, Ind. Automatic stock-feeder. No. 1,346,025; July 6; v. 276; p. 138.

Hiner, Ora W., D. C. and E. A. Farnham, Jr., Butler, Ind. Swine-feeding apparatus. No. 1,346,026; July 6; v. 276; p. 138.

Hiner, Ora W., D. C. and E. A. Farnham, Jr., Butler, Ind. Automatic animal-feeder. No. 1,346,027; July 6; v. 276; p. 138.

Hinshaw, Claud J., and H. B. Castor, Lapel, Ind. Pump. No. 1,346,652; July 13; v. 276; p. 323.

Hintz, Ernst, Wiesbaden, and H. Schulz, Worms, Germany. Drying patent-leather. No. 1,346,091; July 6; v. 276; p. 151.

Hiltz, George S., Brooklyn, N. Y., assignor to Stock Quotation Telegraph Company. Printing-telegraph. No. 1,347,580; July 27; v. 276; p. 622.

Hipes, Margaret, Santa Barbara, Calif. Dish-washing machine. No. 1,347,698; July 27; v. 276; p. 646.

Hirst, Harry R., Trenton, N. J. Tool for inserting plugs in tires. No. 1,348,005; July 27; v. 276; p. 707.

Hisamoto, Junzo, Nagoya City, assignor to Toyo-Kagaku-Yakin-Kabushiki-Kaisha (The Oriental Chemical Metallurgic Company, Limited), Tokyo, Japan. Drawing refractory metal. No. 1,345,441; July 6; v. 276; p. 22.

Histand, Harry H., Doylestown, Pa. Child's velocipede. No. 1,348,113; July 27; v. 276; p. 728.

Hobbs, Clarence W., deceased, Worcester, Mass.; C. W. Hobbs, Jr., and S. T. Hobbs, administrators. Safety device. No. 1,345,442; July 6; v. 276; p. 22.

Hobbs, Clarence W., Jr., *et al.*, administrators. (See Hobbs, Clarence W.)

Hobbs, Samuel T., *et al.*, administrators. (See Hobbs, Clarence W.)

Hodges, Edward, Eastleigh, near Southampton, England. Repair of the axles of motor-vehicles. No. 1,346,202; July 13; v. 276; p. 233.

Hodgkins, Charles H. (See Starker, C. W., and Hodgkins.)

Hodgman, Willis K., Taunton, Mass., assignor to Michle Printing Press & Manufacturing Company, Chicago, Ill. Planographic printing-press. No. 1,348,006; July 27; v. 276; p. 707.

Hodgkinson, Francis, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. No. 1,345,674; July 6; v. 276; p. 68.

Hoffman Charles M., and J. Thomisser, Chicago, Ill. Automotive vestibule-curtain holder. No. 1,348,114; July 27; v. 276; p. 729.

Hoffman, Ronald F. (See Hancock, F. R., and Hoffman.)

Hofmann, George, assignor to Hofmann-Morgan Rubber Company, Chicago, Ill. Pneumatic tire. No. 1,347,950; July 27; v. 276; p. 695.

Hofmann-Morgan Rubber Company. (See Hofmann, George, assignor.)

Hoffman, Harry M. (See Garrett, W. B., and Hoffman.)

Hoffman, Rudolph, Kankakee, assignors to Sears, Roebuck and Company, Chicago, Ill. Oil-stove. No. 1,345,775; July 6; v. 276; p. 88.

Hogg, Leonard J., Philadelphia, Pa. Filing-receptacle. No. 1,347,272; July 20; v. 276; p. 505.

Hohmann, Henry C., Louisville, Ky. Stop and waste cock plug. No. 1,347,951; July 27; v. 276; p. 696.

Hoisington, William A. J., Dallas, Oreg. Stem-clipping device for fruit and vegetable pickers. No. 1,347,098; July 20; v. 276; p. 470.

Hofsté, Maarten, Amsterdam, Netherlands. Production of textile fibrous material. No. 1,345,776; July 6; v. 276; p. 88.

Holdaway, Hall H., Los Angeles, Calif., assignor, by mesne assignments, to The Adams-Campbell Company, Incorporated. Vehicle-tire. No. 1,345,777; July 6; v. 276; p. 88.

Holden, Joseph B., Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,347,632; July 27; v. 276; p. 632.

Holdsworth, Oliver, Oakland, Calif. Window-sash lock. No. 1,345,928; July 6; v. 276; p. 119.

Holdsworth, Willie, Providence, R. I. Adjustable saddle for gill-drawing frames. No. 1,347,331; July 20; v. 276; p. 516.

Holland, James H., assignor to Holland Manufacturing Co., St. Louis, Mo. Attachment for soda-fountain faucets. No. 1,347,373; July 20; v. 276; p. 524.

Hollings, John C., Boston, Mass. Globe or shade holder for electric lamps. No. 1,346,375; July 13; v. 276; p. 268.

Holland Manufacturing Co. (See Holland, James H., assignor.)

Holland, Walter J., Fairoaks, assignor of one-fourth to P. M. Pike and A. R. Johnson, San Francisco, Calif. Drill-bit. No. 1,345,854; July 6; v. 276; p. 103.

Holliday, Jeremiah R., Winnsboro, S. C. Body-brace. No. 1,347,037; July 20; v. 276; p. 459.

Hollings, Ernest, Cleveland, Ohio. Nut-machine. No. 1,346,889; July 20; v. 276; p. 429.

Holmes, Johannes A., Eureka, Calif. Window-shade roller. No. 1,346,406; July 13; v. 276; p. 274.

Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to Jeffrey Manufacturing Company, Columbus, Ohio. Clutch-controlling mechanism. No. 1,347,811; July 27; v. 276; p. 668.

Holmes, William K., Brooklyn, N. Y. Pencil. No. 1,346,711; July 13; v. 276; p. 335.

Holstein, John V., assignor to Deere and Company, Moline, Ill. Two-row cultivator. No. 1,346,317; July 13; v. 276; p. 258.

Holt, Harold E. S., Farmborough, England. Parachute-flare. No. 1,346,454; July 13; v. 276; p. 284.

Holtzman, Abraham M., Brooklyn, N. Y. Sole-stitching machine. No. 1,347,038; July 20; v. 276; p. 459.

Holy, George H. F. (See Bright, G., Holy, and Hardcastle.)

Hood, Benjamin M., Atlanta, Ga. Machine for forming clay tower-spirals. No. 1,346,786; July 13; v. 276; p. 351.

Hood, Bunt, Columbus, Ga. Aeroplane. No. 1,347,952; July 27; v. 276; p. 696.

Hood, Henry, Philadelphia, Pa. Screwdriver. No. 1,345,443; July 6; v. 276; p. 23.

Hood, James J., assignor of twenty-five per cent. to S. A. Saxon, Ponder, Ga. Circuit-closer for locks. No. 1,347,039; July 20; v. 276; p. 459.

Hookham, George. (See Hatfield, H. S., and Hookham.)

Hooper, Harris G., Los Angeles, Calif. Aeroplane construction. No. 1,347,040; July 20; v. 276; p. 459.

Hoover, Ralph W., Armstrongs Mills, Ohio. Fishing-tool for pumps. No. 1,347,041; July 20; v. 276; p. 459.

Hopedale Manufacturing Company. (See Wentz, Earle J., assignor.)

Hopkins, Charles E., New York, N. Y. Machine for finishing stereotype printing-plates. No. 1,346,601; July 13; v. 276; p. 313.

Hopkinson, Austin, Guide Bridge, England. Method of and apparatus for driving tunnels for military or other purposes in earth or soft rock. No. 1,347,332; July 20; v. 276; p. 516.

Hopp, Hermann and L., New York, N. Y. Price-marker system. No. 1,346,028; July 6; v. 276; p. 138.

Hopp, Geo. (See Hopp, Hermann and L.)

Hormel, George W., assignor to G. M. Glenn, Wichita, Kans. Stovepipe-lock. No. 1,345,778; July 6; v. 276; p. 89.

Horn, Aaron C., New York, N. Y. Spot-ground. No. 1,347,633; July 27; v. 276; p. 632.

Horne, James. (See Dawson, A. T., and Horne.)

Horne, James A., Newark, N. J. Resilient tire. No. 1,347,953; July 27; v. 276; p. 696.

Horne, Samuel E., Toronto, Ontario, Canada. Combined bumper and fender for automobiles. No. 1,347,699; July 27; v. 276; p. 646.

Hornung, Anton N., Los Angeles, Calif. Refrigerator-counter display-case. No. 1,347,161; July 20; v. 276; p. 482.

Horton, Albert J., White Plains, N. Y. Circuit-controller. No. 1,347,859; July 27; v. 276; p. 678.

Horton, Bryson D., Detroit, Mich. Hole-closure. No. 1,345,489; July 6; v. 276; p. 32.

Horr, John V., East Cleveland, assignor to A. T. Fischer, Cleveland, Ohio. Display-carton. No. 1,347,273; July 20; v. 276; p. 505.

Horst, Emil C., San Francisco, Calif. Stem-picker. No. 1,348,139; July 27; v. 276; p. 734.

Horvitz, Aaron, Chicago, Ill. Burglar-protector. No. 1,345,444; July 6; v. 276; p. 23.

Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-tinning machine. No. 1,346,825; July 20; v. 276; p. 416.

Hosmer, Arthur, Chicago, Ill. Overalls. No. 1,345,779; July 6; v. 276; p. 89.

Hotaling, Omar J., East Orange, N. J. Newspaper-vending machine. No. 1,345,855; July 6; v. 276; p. 103.

Hottinger, Emil, assignor to Hess-Bright Manufacturing Company, Philadelphia, Pa. Expanding arbor. No. 1,346,890; July 20; v. 276; p. 429.

Hougland, Albert C., St. Paul, Minn. Milking-machine. No. 1,347,162; July 20; v. 276; p. 482.

Housley, Robert B., Indianapolis, Ind. Washout-plug. No. 1,346,496; July 13; v. 276; p. 293.

Houston, Roger A. (See McMahon, F., and Houston.)

Houston, Constance M. M., Papanui, Christchurch, New Zealand. Typewriting-machine. No. 1,347,333; July 20; v. 276; p. 517.

Hovland, Henry B., Zumbrota, Minn. Apparatus for metallurgical and other purposes. No. 1,345,596; July 6; v. 276; p. 53.

Howard, Otis W., assignor to Deere & Company, Moline, Ill. Cultivator-wheel adjustment. No. 1,346,318; July 13; v. 276; p. 258.

Howard, Silas S. (See Davis, James F., assignor.)

Howland, Henry S., *et al.* (See Van Vleet, Charles W., assignor.)

Howe, Frank D. (See Bloesinger, A., and Howe.)

Howe, James M., Cleveland Heights, assignor to The S. W. H. Engineering Company, Cleveland, Ohio. Tractor. No. 1,347,163; July 20; v. 276; p. 483.

Howe, Olaf L., Missoula, Mont. Gun attachment. No. 1,347,509; July 27; v. 276; p. 608.

Howe, Paul J., Ridgewood, N. J. Apparatus for piercing timber. No. 1,346,126; July 13; v. 276; p. 220.

Howell, Kenneth B., Millburn, N. J., assignor to The Barrett Company. Removing fumes from materials. No. 1,348,140; July 27; v. 276; p. 734.

Howell, Samuel M., Zanesville, Ohio. Metallurgical furnace. (Reissue.) No. 14,914; July 13; v. 276; p. 355.

Howell, Squire S., Des Moines, Iowa. Signal device for automobiles. No. 1,347,274; July 20; v. 276; p. 505.

Howes, Willis E., assignor of one-fourth to B. & D. Manufacturing Company, Rock Island, Ill., and one-fourth to H. E. Winters, Davenport, Iowa. Hobby-cycle. No. 1,347,099; July 20; v. 276; p. 470.

Hoy, John E., assignor of one-half to R. P. Place, Midland, Mich. Puzzle. No. 1,345,490; July 6; v. 276; p. 32.

Hruza, William. (See Bennet, G. Henry, assignor.)

Hubbell, Harvey, Incorporated. (See Newton, William J., assignor.)

Hubbard, Richard W., Ashtabula, Ohio. Hinge. No. 1,346,029; July 6; v. 276; p. 139.

Hubner, Anthony, Bloomingdale, N. J., assignor of one-half to L. J. Lichtenberger, New York, N. Y. Paper-toy amusement device. No. 1,347,042; July 20; v. 276; p. 460.

Hudson, Albert E., Calgary, Alberta, Canada. Spark-arrester. No. 1,347,374; July 20; v. 276; p. 525.

Huey, Harold I., Saylesville, R. I. Window-closing device. No. 1,348,131; July 27; v. 276; p. 732.

Hufschmidt, Louis A., San Francisco, Calif. Index and memorandum pad holder. No. 1,347,222; July 20; v. 276; p. 494.

Huffman, John W., Marion, Mich. Dumping-bed for wagons. No. 1,347,375; July 20; v. 276; p. 525.

Huggins, Ulysses S., Chicago, Ill. Game. No. 1,346,826; July 20; v. 276; p. 417.

Hughes, Lionel W., Port Said, Egypt. Packing-case. No. 1,345,856; July 6; v. 276; p. 103.

Hula, Joseph, Irving, Kans. Container-holder. No. 1,345,857; July 6; v. 276; p. 104.

Hull, Matthew R., assignor to Rex Manufacturing Company, Connersville, Ind. Roof-deck for vehicles. No. 1,346,203; July 13; v. 276; p. 234.

Hull, Salmon Mfg. Co. (See Salmon, Edward W., Jr., assignor.)

Hullinger, Lynus E., Brooklyn, assignor to Pomeroy Company, New York, N. Y. Artificial-limb lock. No. 1,346,092; July 6; v. 276; p. 151.

Hulse, Horace D. (See Schaefer, P. C., Hulse, and Livingstone.)

Humason, Granville A., assignor of one-half to J. W. Parker, Houston, Tex. Pump. No. 1,345,491; July 6; v. 276; p. 32.

Humphrey, Harland. (See Klein, P., and Humphrey.)

Humphrey, Harry D., *et al.* (See Umphrey, Henry, assignor.)

Hunt, Helm, Ferris & Company. (See Ferris, Henry L., assignor.)

Hunt, John, Dumont, Colo. Climbing-elevator device. No. 1,348,138; July 27; v. 276; p. 733.

Hunt, Ozello R., assignor to Cushion Spring Engineering Corporation, Chicago, Ill. Spring structure. No. 1,345,780; July 6; v. 276; p. 89.

Huntoon, William C., Providence, R. I. Die for extruding collapsible tubes. No. 1,348,007; July 27; v. 276; p. 707.

Hunzicker, Walter W., assignor to The Ohio Brass Company, Mansfield, Ohio. Automatic slack-adjuster. No. 1,347,634; July 27; v. 276; p. 633.

Hurd, Benjamin W., San Francisco, Calif. Gear-pump. No. 1,346,960; July 20; v. 276; p. 443.

Hurley, Justin T., New York, N. Y. Adding-machine. No. 1,345,781; July 6; v. 276; p. 89.
Hurst, Charles, Limited. (See Patton, Alexander M., assignor.)
Hurst, George A., Louisville, Ky. Concrete roof construction. No. 1,346,752; July 13; v. 276; p. 343.
Hurst, Henry, *et al.* (See McNerny, Clyde J., assignor.)
Husted, Lemuel J. (See Mulvany, Alva B., assignor.)
Hutchins Car Roofing Company. (See Thompson, William D., assignor.)
Hutchinson Egg-Case Filler Co. (See Doyle, Clarence E., assignor.)
Hutchinson, Job, Brooklyn, N. Y. Changeable indicator. No. 1,345,675; July 6; v. 276; p. 68.
Hutchinson, Morton C., Woodbury, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Reversible-taper roughing-reamer. No. 1,348,115; July 27; v. 276; p. 729.
Hutchison, Norman F., Balwyn, near Melbourne, Victoria, Australia. File for loose sheets. No. 1,345,365; July 6; v. 276; p. 8.
Huth, John H., Philadelphia, Pa. Pipe connection and making same. No. 1,345,543; July 6; v. 276; p. 43.
Huwyler, Lyberat, Goldau, Switzerland. Railway-car. No. 1,346,891; July 20; v. 276; p. 429.
Hvid, R. M., Company. (See Hvid, Rasmus M., assignor.)
Hvid, R. M., Company. (See Slonek, Frank G., assignor.)
Hvid, Rasmus M., Chicago, Ill. Oil-burning engine. No. 1,346,205; July 13; v. 276; p. 234.
Hvid, Rasmus M., assignor to R. M. Hvid Company, Chicago, Ill. Valve for hydrocarbon-engines. No. 1,346,204; July 13; v. 276; p. 234.
Hydro-Dynamics Limited. (See Lamplough, Frederick, assignor.)
Hydraulic Pressed Steel Company, The. (See Grob, Arnold, assignor.)
Iden, Eugene W., Cleveland, Ohio. Dental instrument. No. 1,347,275; July 20; v. 276; p. 505.
Imperial Typewriter Company Limited. (See Pilblad, E. J., and Tomlinson, assignors.)
Import and By Products Company, The. (See Appelbaum, Alan I., assignor.)
Improved Equipment Company, The. (See Abbott, Lyle S., assignor.)
Industrial Research Corporation. (See Davies, Henry R., assignor.)
Industrial Research Corporation. (See Heany, John A., assignor.)
Ingersoll-Rand Company. (See Ambrose, Robert L., assignor.)
Ingersoll-Rand Company. (See Bayles, L. C., and Slater, assignors.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Longacre, Frederick D., assignor.)
Ingersoll-Rand Company. (See Smith, William A., assignor.)
Ingle, Arthur H., and W. E. Ward, Rochester, N. Y.; said Ward assignor to said Ingle. Apron mechanism for lathes. No. 1,345,676; July 6; v. 276; p. 68.
Ingraham, George J. (See Burr, H. M., and Ingraham.)
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,346,653; July 13; v. 276; p. 323.
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,346,654; July 13; v. 276; p. 324.
Ingram, Harry. (See Ingram, Alfred and H.)
Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)
Innes, George, and J. H. Prall, Philadelphia, Pa. Grain-shocker. No. 1,346,542; July 13; v. 276; p. 302.
Innes, George, and J. H. Prall, Philadelphia, Pa. Grain-shocker. No. 1,346,543; July 13; v. 276; p. 302.
Insley Manufacturing Company. (See Insley, W. H., and Rasmussen, assignors.)
Insley, William H., and A. C. Rasmussen, assignors to Insley Manufacturing Company, Indianapolis, Ind. Derrick-base. No. 1,348,008; July 27; v. 276; p. 707.
International Corset Company. (See Schopbach, Charles H., assignor.)
International Harvester Company. (See Sharp, Charles S., assignor.)
International Harvester Company. (See Bloesinger, A., and Howe, assignors.)
International Moving Picture and Film Company. (See Killman, Thomas A., assignor.)
International Motor Company. (See Masury, A. F., and Belger, assignors.)
International Telephone Company, The. (See Hastings, Ruben C. M., assignor.)
Interwoven Mills, The. (See Smith, William E., assignor.)
Ionides, Alexander C., Jr., and S. V. Cooke, London, England; said Cooke assignor to said Ionides. Gas-furnace-regulating system. No. 1,347,954; July 27; v. 276; p. 696.
Ionides, Alexander C., Jr., London, England. Gaseous combustion. No. 1,347,955; July 27; v. 276; p. 696.
Irvin, Roy. (See Kohman, H. A., and Irvin.)
Irvine, Robin H., Bay City, Mich. Tree-sawing machine. No. 1,345,492; July 6; v. 276; p. 32.
Isko Company, The. (See Yates, Charles E., assignor.)
Jachimowicz, Szymon, Geneva, Switzerland. Turret-lathe. No. 1,346,892; July 20; v. 276; p. 430.
Jackson, Corwill, Kalamazoo, Mich. Grinder. No. 1,346,893; July 20; v. 276; p. 430.
Jackson, Gilbert, New York, N. Y. Bottle-valve. No. 1,348,116; July 27; v. 276; p. 729.
Jackson, John L., River Forest, Ill. Indicator for pneumatic tires. No. 1,346,961; July 20; v. 276; p. 443.
Jackson, Munsell B., Jr. (See Clipsham, K. M., and Jackson, Jr.)
Jackson, Walter M., New York, N. Y. Slitting attachment for cigars. No. 1,345,677; July 6; v. 276; p. 68.
Jacob, Thomas H., Wausau, Wis. Front-axle-radius-rod structure. No. 1,347,280; July 20; v. 276; p. 507.
Jacobs, Ernest H., Chicago, Ill., assignor to General Electric Company. Electric switch. No. 1,347,779; July 27; v. 276; p. 662.
Jacobs, Frederick, Cincinnati, Ohio. Husking, snapping, and shocking device. No. 1,346,894; July 20; v. 276; p. 430.
Jacobsen, Emil, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,346,093; July 6; v. 276; p. 152.
Jacobsen, Emil. (See Martin, T. G., and Jacobsen.)
Jacobson, Eric A., Lindsay, Ontario, Canada. Turbine water-wheel. No. 1,345,493; July 6; v. 276; p. 33.
Jacobson, John, Rockford, Ill. Car-replacer. No. 1,346,962; July 20; v. 276; p. 443.
Jacoby, Raymond E., Philadelphia, Pa. Wrench. No. 1,347,780; July 27; v. 276; p. 663.
Jacquemin, Auguste F., assignor to Rogers Fibre Company, Kennebunk, Me. Doffer mechanism for counter-molding machines. No. 1,346,030; July 6; v. 276; p. 139.
Jaeger, August, Grand Rapids, Mich. Draw-board fastener. No. 1,348,142; July 27; v. 276; p. 734.
Jeffrey Manufacturing Company. (See Holmes, Morris P., assignor.)
Jakob, Victor. (See Mizer, J. J., and Jakob.)
Jameson, Winthrop S., Belmont, Mass. Automobile-lock. No. 1,347,463; July 20; v. 276; p. 542.
Janes, Martin L., New York, N. Y. Combined blood-transfusion and aspirating apparatus. No. 1,346,127; July 13; v. 276; p. 220.
Janik, Johan, Johnstown, Pa. Rail-joint. No. 1,347,370; July 20; v. 276; p. 525.
Jantsch, Ernst, Cincinnati, Ohio. Combined armchair and bed. No. 1,346,206; July 13; v. 276; p. 234.
Jantsch, Hugo, and W. E. Guldager, Detroit, Mich. Perpendicularity-indicator. No. 1,345,597; July 6; v. 276; p. 53.
Jaquemot, Eugène. (See Pattay, M., and Jaquemot.)
Jasper, Virgil G., Elyria, Ohio. Penwiper. No. 1,347,164; July 20; v. 276; p. 483.
Jeffries, Zay, East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion motor. No. 1,347,479; July 20; v. 276; p. 545.
Jeffries, Zay, East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion motor. No. 1,347,480; July 20; v. 276; p. 545.
Jeffries, Zay, East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Making castings. No. 1,347,481; July 20; v. 276; p. 545.
Jenkins, Alexander H., assignor to J. B. Brooks and Company Limited, Birmingham, England. Fastening or securing device. No. 1,346,655; July 13; v. 276; p. 324.
Jenkins, Charles, Delevan, N. Y. Potato-grader. No. 1,345,858; July 6; v. 276; p. 104.
Jenkins, Evan H., Abertillery, England. Rear-springing device for motorcycles or tricars. No. 1,347,100; July 20; v. 276; p. 470.
Jenkins, Parker, Philadelphia, Pa. Dimmer-shield for lamps. No. 1,346,497; July 13; v. 276; p. 298.
Jenner, James W., Louisville, Ky. Engraving-plate holder. No. 1,347,101; July 20; v. 276; p. 471.
Jennings, David J., Cleveland, Ohio. Device for making paper receptacles. No. 1,346,827; July 20; v. 276; p. 417.
Jennings, Morris W., *et al.* (See Bridges, William H., assignor.)
Jennings, Victor H., Worcester, Mass., assignor to Universal Patents Company, Woonsocket, R. I. Machine-gun belt and the like. No. 1,346,207; July 13; v. 276; p. 235.
Jennings, Victor H., Worcester, Mass., assignor to Universal Patents Company, Woonsocket, R. I. Machine-gun belt and the like. No. 1,346,208; July 13; v. 276; p. 235.
Jensen, Peter, Wayne, Alberta, Canada. Reversing-fan. No. 1,347,377; July 20; v. 276; p. 525.
Jester, Marvin H., Chicago, Ill. Structure for partitions, ceilings, and the like. No. 1,348,009; July 27; v. 276; p. 707.
Jippson, Adolf B., assignor to The Ohio Blower Company, Cleveland, Ohio. Furniture. No. 1,345,366; July 6; v. 276; p. 8.
Jobke, August F., Pittsburgh, Pa. Magnetic ore-separator. No. 1,346,544; July 13; v. 276; p. 302.
Johski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,347,581; July 27; v. 276; p. 623.
Joel, Henry F., Sr. (See Mawdsley, J. H. S., and Joel.)

Johnson, Albert H., assignor to National Electrical Supply Company, Washington, D. C. Machine for crimping wire. No. 1,345,445; July 6; v. 276; p. 23.
Johnson, Albert O., Northwood, Iowa. Adjustable show-case. No. 1,345,367; July 6; v. 276; p. 8.
Johnson, Albert S., Irwin, Mo., assignor of four-fifths to J. Peterson, J. M. Conner, W. S. Grant, F. L. Fluke, H. A. Gorsuch, J. T. Alsup, W. M. Herd, and F. R. Burritt, Delta county, Colo. Hen's nest. No. 1,347,223; July 20; v. 276; p. 494.
Johnson, Alvin R., *et al.* (See Holland, Walter J., assignor.)
Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
Johnson, Benjamin E. (See Wilkins, Frederick F., assignor.)
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift lever. No. 1,346,209; July 13; v. 276; p. 235.
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Automobile-spare-tire lock. No. 1,346,964; July 20; v. 276; p. 444.
Johnson, Dorr E., Toledo, Ohio, and O. E. Parmelee, Lambertville, Mich. Spring-board for diving. No. 1,347,510; July 27; v. 276; p. 608.
Johnson, Edmiston P., Decatur, Ill. Direction-indicator for bicycles. No. 1,347,334; July 20; v. 276; p. 517.
Johnson, Fidelis, Delphos, Ohio. Combined furnace and flue-welder. No. 1,346,758; July 13; v. 276; p. 343.
Johnson, Gustaf O., Elkhart, Ind. Infant's carriage. No. 1,346,963; July 20; v. 276; p. 444.
Johnson, Howard A., Norfolk, Va. Shaft-coupling. No. 1,345,446; July 6; v. 276; p. 23.
Johnson, Howard A., Norfolk, Va. Rolling door. No. 1,345,447; July 6; v. 276; p. 23.
Johnson, Oscar W., and R. Milne, assignors to Ward Pump Company, Rockford, Ill. Sprayer. No. 1,345,598; July 6; v. 276; p. 83.
Johnson, Royal K., assignor to The Minerva Engine Company, Cleveland, Ohio. Internal-combustion engine. No. 1,347,276; July 20; v. 276; p. 506.
Johnson, Samuel P., Longacre, W. Va. Automatic mechanism for stopping trains. No. 1,345,599; July 6; v. 276; p. 54.
Johnson, Stephen C., assignor of one-half to L. L. Utter, Detroit, Mich. Switch-box support. No. 1,346,895; July 20; v. 276; p. 430.
Johnson, Thure A., Lynn, Mass. Holder for shelves. No. 1,347,464; July 20; v. 276; p. 542.
Johnson, Tomlinson F., Jr., Atlanta, Ga. Spark-gap indicator. No. 1,347,378; July 20; v. 276; p. 525.
Johnson, William B., Elkhart, Ind., assignor to Foster-Johnson Reamer Company. Adjustable reamer. No. 1,345,929; July 6; v. 276; p. 119.
Johnson, William D., Oakland, Calif. Insect-trap. No. 1,347,906; July 27; v. 276; p. 687.
Johnson, William H., Perry, Okla. Steering-balance. No. 1,346,211; July 13; v. 276; p. 235.
Johnson, Willie H., Chicago, Ill. Globe-valve. No. 1,346,210; July 13; v. 276; p. 235.
Johnston, Clarence L., assignor of one-half to H. P. Brown, Oakland, Calif. Interfolding-machine. No. 1,346,602; July 13; v. 276; p. 313.
Johnston, Genevieve. (See Johnston, Horace G., assignor.)
Johnston, Horace G., assignor to G. Johnston, Corsicana, Tex. Attachment for rotaries. No. 1,347,379; July 20; v. 276; p. 525.
Johnston, Horace G., assignor to G. Johnston, Corsicana, Tex. Rotary-drill head. No. 1,348,117; July 27; v. 276; p. 729.
Jones, Arthur W., Stepps, J. Bryden, Cartcosh, and A. J. H. Mowbray, Stirling Scotland. Grip for handling slabs, bars, billets, or other material. No. 1,345,930; July 6; v. 276; p. 119.
Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Control of electric motors. No. 1,347,781; July 27; v. 276; p. 663.
Jones, Clayton M., Jamestown, N. Y. Wrench. No. 1,348,143; July 27; v. 276; p. 734.
Jones, Edward C. (See Jones, J. L. and E. C.)
Jones, Edwin, Cleveland, Ohio. Uncoupling device for car couplings. No. 1,347,380; July 20; v. 276; p. 526.
Jones, Frank E., administrator. (See Jones, Harry W.)
Jones, Frank E., Sebring, Ohio, assignor to General Electric Company. Metal reflector and making same. No. 1,347,335; July 20; v. 276; p. 517.
Jones, Harry W., deceased, Independence; F. E. Jones, administrator, assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for cracking petroleum. No. 1,347,543; July 27; v. 276; p. 614.
Jones, Harry W., deceased, Independence; F. E. Jones, administrator, assignor to The Kansas City Gasoline Company, Kansas City, Kans. Treating hydrocarbons. No. 1,347,544; July 27; v. 276; p. 615.
Jones, John B., Brookville, Pa. Rifle cleaning rod. No. 1,347,387; July 20; v. 276; p. 526.
Jones, John L. and E. C., Kansas City, Mo. Silo. No. 1,345,544; July 6; v. 276; p. 48.
Jones, Joseph H., assignor of one-half to T. E. Heatley, Winthrop, Mass. Fly-frame. No. 1,347,165; July 20; v. 276; p. 483.
Jones, Ralph L., Gordon, Tex. Sling-shot. No. 1,346,754; July 13; v. 276; p. 344.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,346,802; July 13; v. 276; p. 354.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,346,803; July 13; v. 276; p. 354.
Jones, Slone A., Springville, Ala. Rail-joint. No. 1,346,656; July 13; v. 276; p. 324.
Jordon, O. F., Company. (See Bressler, Robert E., assignor.)
Josias, Nathan, Philadelphia, Pa. Combination saw-table and single-spindle shaper. No. 1,346,031; July 6; v. 276; p. 139.
Josler, Angelo, assignor of one-half to F. P. Smith, Chicago, Ill. Window-guard. No. 1,346,094; July 6; v. 276; p. 152.
Joyce-Cridland Company, The. (See Ripsch, C. W., and Dawley, assignors.)
Juelson, Edwin, Chicago, Ill. Razor-stropping device. No. 1,346,212; July 13; v. 276; p. 236.
Juengst, Charles A., assignor to himself and Juengst & Sons, Croton Falls, N. Y. Book or pamphlet covering machine. No. 1,346,799; July 13; v. 276; p. 353.
Juengst, George, & Sons. (See Juengst, Charles A., assignor.)
Junnce, Homer H., and E. J. O'Brien, Pasadena, Calif. Cooling system for gas-engines. No. 1,347,043; July 20; v. 276; p. 460.
Juszczak, Frank, Hagewisch, Ill. Combination-bed. No. 1,346,806; July 20; v. 276; p. 430.
Jutne, John C., Allston, Mass. Child's car. No. 1,348,118; July 27; v. 276; p. 729.
Kaiser, Carlotta G. (See Kaiser, Joseph, assignor.)
Kaiser, Jacob W., East Cleveland, Ohio. Liquid-dispensing device. No. 1,347,635; July 27; v. 276; p. 633.
Kaiser, Joseph, assignor to C. G. Kaiser, San Diego, Calif. Necktie. No. 1,347,782; July 27; v. 276; p. 663.
Kako, Shintaro, Los Angeles, Calif. Electric steam-iron. No. 1,347,224; July 20; v. 276; p. 494.
Kalivoda, John, Cuba, Kans. Scraper. No. 1,348,119; July 27; v. 276; p. 730.
Kanegafuchi Boseki Kabuskiki Kwaisha. (See Kido, Suekichi, assignor.)
Kansas City Gasoline Company, The. (See Jones, Harry W., assignor.)
Kansas City Gasoline Company, The. (See Wellman, Frank E., assignor.)
Karl, Andrew J., and B. F. Webb, Sistersville, W. Va. Transmission-gearing. No. 1,345,494; July 6; v. 276; p. 33.
Karles, Michael D., Delray, Mich. Pneumatic tool. No. 1,345,495; July 6; v. 276; p. 33.
Karnes, Walter C., Joplin, Mo. Timer. No. 1,347,636; July 27; v. 276; p. 633.
Karr, John C., Chicago, Ill. Road-drag. No. 1,347,336; July 20; v. 276; p. 517.
Karro, William W., Great Neck, N. Y. Cane. No. 1,347,382; July 20; v. 276; p. 526.
Kasbaum, Landon C., Laporte, Ind. Street-indicator for cars. No. 1,347,545; July 27; v. 276; p. 615.
Kasley, Alexander T., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Co. Mounting for turbine-buckets. No. 1,345,678; July 6; v. 276; p. 69.
Kaufman, Adolph G., New York, N. Y. Vaporizer-guide. No. 1,345,448; July 6; v. 276; p. 24.
Kaufmann, John W., Baltimore, Md. Reproducer for talking-machines. No. 1,347,813; July 27; v. 276; p. 668.
Kauffman, Roscoe W., *et al.* (See Seymour, John K., assignor.)
Kebler, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Co., Resistance device. No. 1,347,102; July 20; v. 276; p. 471.
Keeler, John M., assignor of one-half to C. R. Welsh, New Brighton, Pa. Adjustable spigot or faucet. No. 1,345,496; July 6; v. 276; p. 33.
Keeling, Fred C., Rockford, Ill. Artificial bait. No. 1,345,500; July 6; v. 276; p. 54.
Kehn, Edward A., Denver, Colo. Railway-rail fastener. No. 1,346,965; July 20; v. 276; p. 444.
Keim, Ivan N., Mount Holly, N. J. Cushion-tire. No. 1,346,032; July 6; v. 276; p. 139.
Keith, John W., and R. W. Williams, Hornbeak, Tenn. Harvest-sack. No. 1,346,033; July 6; v. 276; p. 139.
Kell, Jacob, Newark, N. J. Center-point device for lathes, &c. No. 1,345,308; July 6; v. 276; p. 8.
Keller, Clarence D., Los Angeles, Calif. Windshield. (Reissue.) No. 14,919; July 20; v. 276; p. 547.
Keller, John A., Bay Shore, N. Y. Clothing-ticket. No. 1,345,782; July 6; v. 276; p. 89.
Keller, Phil C. (See Minor, W. F. Keller, and Rolph.)
Keller, Pneumatic Tool Company. (See Schinkez, Albert, assignor.)
Kelley, Emmor H., and G. A. Stewart, Jr., South Brownsville, Pa. Stand. No. 1,347,637; July 27; v. 276; p. 633.
Kelly, Ernest B., Chicago, Ill. Thumb-sucking preventer. No. 1,345,783; July 6; v. 276; p. 90.
Kelley, John I., Philadelphia, Pa. Garter-fastening. No. 1,346,657; July 13; v. 276; p. 324.
Kellum, Orlando E., and S. A. Murdock, Los Angeles, Calif.; said Murdock assignor to said Kellum. Phonograph-driving mechanism. No. 1,346,376; July 13; v. 276; p. 268.
Kelso, Joseph. (See Kelso, William and J.)

Kelso, Robert B., Seattle, Wash. Dinner-pail. No. 1,346,034; July 6; v. 276; p. 140.

Kelso, William and J., assignors to The McConway & Torley Company, Pittsburgh, Pa. Draft appliance for railway-vehicles. No. 1,346,545; July 13; v. 276; p. 302.

Kemmer, Nicholas P., London, England. Car-coupling. No. 1,346,603; July 13; v. 276; p. 313.

Kempf, Roman M., Columbus, Ohio. Shoe-lace hanger. No. 1,347,277; July 20; v. 276; p. 506.

Kempin, Richard A., Rorschach, Switzerland. Toothed change-gear for driving metal-working machines. No. 1,345,497; July 6; v. 276; p. 33.

Kendt, William F., Buffalo, N. Y. Funnel. No. 1,347,383; July 20; v. 276; p. 526.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,347,638; July 27; v. 276; p. 633.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,347,744; July 27; v. 276; p. 655.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,347,745; July 27; v. 276; p. 655.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,347,746; July 27; v. 276; p. 656.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,347,747; July 27; v. 276; p. 656.

Kenney, Charles D. (See Smith, George H., assignor.)

Kennington, William O., London, England, assignor to The Remy Electric Company. Ignition system. No. 1,347,511; July 27; v. 276; p. 608.

Kepler, Cleli S., Keosauqua, Iowa. Cold-pack cooking device. No. 1,345,601; July 6; v. 276; p. 54.

Kerr, George W., Racine, Wis. Curtain-window. No. 1,345,602; July 6; v. 276; p. 54.

Kerr, Howard J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Economizer for transverse drum boilers. No. 1,345,369; July 6; v. 276; p. 9.

Kerr, John J., Lincoln, England. Manufacture of propellers. No. 1,345,859; July 6; v. 276; p. 104.

Kesselring, Fritz, Neuhausen, Switzerland. Continuous-current dynamo. No. 1,346,213; July 13; v. 276; p. 236.

Kessler, Alphonso, Dunkirk, N. Y. Scarfpin-holder. No. 1,348,120; July 27; v. 276; p. 730.

Keyoke Railway Equipment Company. (See Murray, George C., assignor.)

Keystone Manufacturing Company. (See Marks, Isidore, assignor.)

Keystone Watch Case Company, The. (See Cook, Wilbur C., assignor.)

Kicklighter, Charles H., Macon, Ga. Electrically welding metal plates. No. 1,347,278; July 20; v. 276; p. 506.

Kido, Suekichi, Nishisuma, Hyogo-Ken, assignor to Kanegafuchi Boseki Kabusukiki Kwaisha, Minamikatsushika-Gun, Tokyo-Fu, Japan. Apparatus for mixing cotton. No. 1,346,828; July 20; v. 276; p. 417.

Kiehler, Frederick, assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,345,931; July 6; v. 276; p. 119.

Killman, Thomas A., assignor to International Moving Picture and Film Company, Nashville, Tenn. Panoramic-motion-picture apparatus. No. 1,347,103; July 20; v. 276; p. 471.

Kimber, Harry A., New Rochelle, N. Y., assignor to Quigley Furnace Specialties Co., Inc. Blowing-tank for compressed-air transport systems. No. 1,348,010; July 27; v. 276; p. 708.

Kimble, Austin, assignor to Marathon Electric & Manufacturing Co., Wausau, Wis. Dynamo-electric machine. No. 1,345,370; July 6; v. 276; p. 9.

Kimmeri, Larned T. and D. S., San Francisco, Calif. Towing-dolly for vehicles. No. 1,346,712; July 13; v. 276; p. 335.

Kimmerle, Daniel S. (See Kimmerle, Larned T. and D. S.)

Kindervater, Julius, Closter, N. J. Connecting-rod. No. 1,347,104; July 20; v. 276; p. 471.

King, Clifford G., Providence, R. I. Collapsible tube. No. 1,346,897; July 20; v. 276; p. 430.

King, Percival F. (See Benoit, L., and King.)

Kingsbury, Edward J. and H. T., Keene, N. H. Toy aeroplane. No. 1,347,814; July 27; v. 276; p. 668.

Kingsbury, Harry T. (See Kingsbury, E. J. and H. T.)

Kingsbury, John M., New York, N. Y. Fluid-flow-control mechanism. No. 1,346,898; July 20; v. 276; p. 431.

Kingswell, Percy N., trustee. (See Roberts, Richard H., assignor.)

Kinnard, Robert M., Trenton, N. J. Toy. No. 1,347,384; July 20; v. 276; p. 526.

Kinnear Manufacturing Company, The. (See Rush, Albert, assignor.)

Kinney, Norton W., Haverhill, Mass. Self-oiling metal bearing. No. 1,346,377; July 13; v. 276; p. 268.

Kirby, James B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,347,166; July 20; v. 276; p. 483.

Kirby, James B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,347,167; July 20; v. 276; p. 483.

Kirby, James B., Cleveland, Ohio. Pump. No. 1,347,512; July 27; v. 276; p. 608.

Kirchner, Otto H. (See Doran, F., and Kirchner.)

Kirk, Robert H., Newcastle-upon-Tyne, England. Mold for plastic and similar substances. No. 1,345,932; July 6; v. 276; p. 120.

Kirino, Charles, Ogden, Utah. Machine for peeling tomatoes. No. 1,347,385; July 20; v. 276; p. 527.

Kitson, Lawrance E. (See Hayes, T. R., and Kitson.)

Kitt, William C., Cincinnati, Ohio. Box. No. 1,345,784; July 6; v. 276; p. 90.

Kleeman, Karl M. (See Gentile, Frank T., assignor.)

Klein, Philip, and H. Humphrey, Mansfield, Ohio. Detachable spring-hinge. No. 1,347,386; July 20; v. 276; p. 527.

Kleinshrot, Albert, Cleveland, Ohio. Tire-protector. No. 1,347,513; July 27; v. 276; p. 608.

Kline, George L., St. Louis, Mo. Auto-chassis. No. 1,347,337; July 20; v. 296; p. 517.

Klingbeil, Edward G., Lander, Wyo. Heating-drum. No. 1,345,603; July 6; v. 276; p. 54.

Kloneck, August J., New York, N. Y. Shock-absorber and dynamometer for power transmissions. No. 1,346,546; July 13; v. 276; p. 302.

Knight, George B., Camden, N. J. Head-guard attachment for caps. No. 1,345,933; July 6; v. 276; p. 120.

Knotts, Thomas S., Little Rock, Ark. Convertible hat. No. 1,347,338; July 20; v. 276; p. 518.

Knox, Walter F., Port Huron, Mich. Mixing-faucet. No. 1,345,934; July 6; v. 276; p. 120.

Kobert, Frank P., Amityville, N. Y. Electric riveting-machine. No. 1,345,679; July 6; v. 276; p. 69.

Koch, William J., La Crosse, Wis. Adjustable backrest. No. 1,345,785; July 6; v. 276; p. 90.

Kochobo, John H., McKeesport, Pa. Reel-holder for moving-picture machines. No. 1,347,956; July 27; v. 276; p. 697.

Koechlin, Albert G., Basel, Switzerland. Weft-spool changer for weaving-looms. No. 1,346,095; July 6; v. 276; p. 152.

Koetting, August, Brooklyn, N. Y. Safety-guard for punch-presses. No. 1,346,713; July 13; v. 276; p. 335.

Kofstad, Otto, Warroad, Minn. Mold for hollow walls. No. 1,345,371; July 6; v. 276; p. 9.

Kohirogawa, Haruichi, Portland, Oreg. Necktie-support. No. 1,347,957; July 27; v. 276; p. 697.

Kohl, Ferdinand, Plymouth, Wis. Bow-facing oar. No. 1,345,860; July 6; v. 276; p. 104.

Kohlhepp, John W., Chicago, Ill., assignor to Allbright-Nell Co. Carcass-scraping wheel. No. 1,347,639; July 27; v. 276; p. 633.

Kohman, Henry A., and R. Irvin, Pittsburgh, Pa. Manufacture of leavened bread. No. 1,345,680; July 6; v. 276; p. 69.

Koivisto, Kustaa, Portland, Oreg. Paint composition. No. 1,347,387; July 20; v. 276; p. 527.

Kolin, Charles, Rochelle, Ill. Advertising specialty. No. 1,246,658; July 13; v. 276; p. 324.

Konieczny, Anton, Vienna, Austria. Photographic projection apparatus. No. 1,346,319; July 13; v. 276; p. 258.

König, Albert, assignor to firm of Carl Zeiss, Jena, Germany. Adjustment of uniocular telemeters. No. 1,347,044; July 20; v. 276; p. 460.

Korthals-Altes, William C., Schenectady, N. Y., assignor to General Electric Company. Alternating-current motor. No. 1,347,783; July 27; v. 276; p. 663.

Kossmann, Max, Brooklyn, N. Y. Adjustable lamp-support. No. 1,346,659; July 13; v. 276; p. 325.

Kostka, John, Cleveland, Ohio. Cigar and cigarette box. No. 1,345,935; July 6; v. 276; p. 120.

Kovács, Louis. (See Sztary, J., and Kovács.)

Kovacs, Louis, Throop, Pa. Aeroplane safety device. No. 1,346,214; July 13; v. 276; p. 236.

Kraber, George L., Portland, Oreg., assignor, by mesne assignments, to The Turbine Air Tool Company, Cleveland, Ohio. Knife-securing means for cutter-heads. No. 1,346,215; July 13; v. 276; p. 236.

Kramer, Gustav A., assignor, by mesne assignments, to Balsa Refrigerator Corporation, New York, N. Y. Lubricant-leakage-preventing device for compressors. No. 1,345,372; July 6; v. 276; p. 9.

Kratochvil, Edwin J., Bancroft, Nebr. Air-washer. No. 1,345,681; July 6; v. 276; p. 69.

Kraus, David, New York, N. Y. Motor-vehicle. No. 1,347,279; July 20; v. 276; p. 506.

Krebs, Frederick H., Frederiksberg, near Copenhagen, Denmark. Device for attachment of electric conductors to insulators. No. 1,346,128; July 13; v. 276; p. 220.

Krell, George K. (See Brandt, F. H. G., and Krell.)

Krieger, John T., assignor to Lincoln Steel and Forge Company, St. Louis, Mo. Car-axle mounting. No. 1,347,280; July 20; v. 276; p. 506.

Kring, Olof O. (See Stalhane, O., and Kring.)

Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Desk-pad and calendar-holder. No. 1,347,225; July 20; v. 276; p. 494.

Kronfeld, Gustav L. S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Driving connection. No. 1,347,907; July 27; v. 276; p. 687.

Krupp, Leo A., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Excavating and grading machine. No. 1,347,860; July 27; v. 276; p. 678.

Kryl, Joseph M., Chicago, Ill. Fire-escape. No. 1,346,787; July 13; v. 276; p. 351.

Kubo, Masakichi, Tokyo, Japan, assignor to General Electric Company. Making cores for electrical apparatus. No. 1,345,786; July 6; v. 276; p. 90.

Kuderer, Charles, Pittsburgh, Pa. Motorcycle-backrest. No. 1,348,121; July 27; v. 276; p. 730.

Kueny, Friedrich A., Mülhausen, Germany. Weft-replenishing mechanism for looms. No. 1,347,700; July 27; v. 276; p. 646.

Kuhlmann, Wesley W., Woodcliff-on-Hudson, N. J. Automobilist's caution-signal. No. 1,346,714; July 13; v. 276; p. 335.

Kuntz, Samuel L., Fort Wayne, Ind. Anchor-rope fastener. No. 1,347,339; July 20; v. 276; p. 518.

Kuryla, Michael H., Park City, Utah, assignor to The Merrill Company, San Francisco, Calif. Filtering apparatus. No. 1,345,861; July 6; v. 276; p. 104.

Kuryla, Michael H., Park City, Utah, assignor to The Merrill Company, San Francisco, Calif. Removable closure. No. 1,345,862; July 6; v. 276; p. 105.

Kuznik, August, assignor of three-fourths to A. Lillie, Cleveland, Ohio. Making molds. No. 1,347,168; July 20; v. 276; p. 483.

Kyrides, Lucas P., assignor to General Chemical Company, New York, N. Y. Producing halogenated homologues of benzene. No. 1,345,373; July 6; v. 276; p. 9.

La Batt, William D., Chicago, Ill. Package-fastener. No. 1,347,861; July 27; v. 276; p. 679.

Lablotière, Edouard, Bezons, France. Machine for applying driving-bands on high-explosive shells. No. 1,346,455; July 13; v. 276; p. 284.

La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Machine for making boxes. No. 1,346,899; July 20; v. 276; p. 431.

Lacerda, Harry A., Schenectady, assignor of one-half to R. W. Benson, New York, N. Y. Lubricating-packing. No. 1,347,388; July 20; v. 276; p. 527.

Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,346,829; July 20; v. 276; p. 417.

Lackland, James R., Creston, Iowa. Automatic angle-indicator. No. 1,346,547; July 13; v. 276; p. 303.

La Crosse Plow Co. (See Davis, F. E., and Cameron, assignors.)

Ladd, George T., Company. (See Remmen, Jorgen, assignor.)

Ladd, James R., Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Centrifugal casting-machine. No. 1,347,582; July 27; v. 276; p. 623.

La Hodny, William, Buffalo, N. Y. Polishing-machine. No. 1,345,374; July 6; v. 276; p. 9.

Lakey, Edgar C., assignor to B. A. Ballou & Co., Inc., Providence, R. I. Button. No. 1,346,660; July 13; v. 276; p. 325.

Lakewood Engineering Company, The. (See Carr, Edward G., assignor.)

La Master, Vernon E., Beardstown, assignor of one-half to T. J. Smedley, Frederick, Ill. Automobile-radiator. No. 1,346,216; July 13; v. 276; p. 236.

Lambert, Alphonse, Rome, Italy. Composition for hardening and preserving impregnable soft woods. No. 1,346,830; July 20; v. 276; p. 417.

Lambert, Andrew. (See Peters, E., and Lambert.)

Lammers, William H., New York, N. Y. Snap-fastener. No. 1,348,011; July 27; v. 276; p. 708.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Draft-arm. No. 1,347,640; July 27; v. 276; p. 634.

Lamplough, Frederick, Feltham, assignor to Hydro-Dynamics Limited, London, England. Hydraulic pump. No. 1,346,548; July 13; v. 276; p. 303.

Lancaster, Frank W., Philadelphia, Pa. Registering contribution-box. No. 1,348,012; July 27; v. 276; p. 708.

Lanchester, Frederick W., London, England. Eliminating torsional vibrations in high-speed engines, &c. No. 1,346,755; July 13; v. 276; p. 344.

Lane, George A., Chicago, Ill., assignor to American Meter Company, Incorporated, New York, N. Y. Gas-meter. No. 1,347,340; July 20; v. 276; p. 518.

Lane, Walter, Holland, Mich. Pneumatic and connection for pneumatic piano-players. No. 1,346,900; July 20; v. 276; p. 431.

Lange, Max E. (See Burger, W. J., and Lange.)

Lapeer Tractor Truck Company. (See Winn, Sidney B., assignor.)

Larkin, John J., Bartlesville, Okla. Making casing-shoes, &c. No. 1,348,013; July 27; v. 276; p. 708.

Larsen, Julius, Copenhagen, Denmark. Pegging-machine. No. 1,346,715; July 13; v. 276; p. 336.

Larsen, Lee, Tampico, Mexico. Antifriction-buffer. No. 1,347,389; July 20; v. 276; p. 527.

Larsen, Louis, Brooklyn, assignor, to Sundh Electric Company, New York, N. Y. Electromagnet. No. 1,345,450; July 6; v. 276; p. 24.

Larsen, Martin. (See Zeuthen, A. C. A., and Larsen.)

Larsh, Everett P., assignor to The Burnett-Larsh Manufacturing Company, Dayton, Ohio. Electric system. No. 1,347,546; July 27; v. 276; p. 615.

Larson, Peter S., Beloit, Wis. Demountable rim. No. 1,348,122; July 27; v. 276; p. 730.

Larson, Walter J., Wrangell, Alaska. Piston-cooling device for internal-combustion engines. No. 1,346,407; July 13; v. 276; p. 274.

Laserson, Frederick M., New York, N. Y. Perforating-machine. No. 1,346,217; July 13; v. 276; p. 236.

La Societe Lyonnaise Des Rechauds Catalytiques, Camell, Cochet, Gritte & Cie. (See Herck, Jean, assignor.)

Lathrop, Andrew C., Yantic, Conn. Closure for bottles and other receptacles. No. 1,348,014; July 27; v. 276; p. 708.

Laurenson, John M. (See Walker, S. L., and Laurenson.)

Laurent, Milton P. (See Mahana, C. G., Glidden, and Laurent.)

Lavercombe, James. (See Rowe, C. B., and Lavercombe.)

Law, E. McIvor, Arcadia, Fla. Convertible protective covering. No. 1,346,320; July 13; v. 276; p. 258.

Layng, John F., Schenectady, N. Y., assignor to General Electric Company. Automatic decelerating device. No. 1,347,784; July 27; v. 276; p. 663.

Lea, Charles, assignor to American Warp Drawing Machine Company, Boston, Mass. Spacing-clamps for warp-threads and other purposes. No. 1,346,498; July 13; v. 276; p. 293.

Leach, William L., Brownwood, Tex. Detachable fastener for cylindrical screens. No. 1,347,341; July 20; v. 276; p. 518.

Learmonth, William T., Portage, Wis. Jack. No. 1,347,862; July 27; v. 276; p. 679.

Leck, John, Santa Ana, Calif. Harvester for beans and the like. No. 1,345,936; July 6; v. 276; p. 120.

Le Cocq, Gaston L. Châteauneuf-sur-Loire, France. Hangar for dirigibles. No. 1,347,815; July 27; v. 276; p. 669.

Lee, Albert B., Minneapolis, Minn. Gage for paring-knives. No. 1,346,321; July 13; v. 276; p. 258.

Lee, Elmer T., Waterbury, Conn. Roller-skate. No. 1,346,218; July 13; v. 276; p. 237.

Lee, Herman H., Brooklyn, N. Y. Leak-detector for vessels. No. 1,348,015; July 27; v. 276; p. 709.

Lee, Herman H., Brooklyn, N. Y. Automatic valve-controlling means. No. 1,348,016; July 27; v. 276; p. 709.

Lee, Nixon, assignor, by mesne assignments, to National Seal Company, Inc., Brooklyn, N. Y. Latch. No. 1,346,129; July 13; v. 276; p. 220.

Lee, Oscar. (See Brager, A., and Lee.)

Lee, Ralph, Medicine Bow, Wyo. Wrench. No. 1,346,716; July 13; v. 276; p. 336.

Lee, Richard, and C. A. Hiatt, assignors, of one-half to C. D. Hall, St. Louis, Mo. Stop-indicator. No. 1,345,937; July 6; v. 276; p. 121.

Lee, William A., Muskogee, Okla. Automobile-signal. No. 1,345,863; July 6; v. 276; p. 105.

Le Fevre, Franklin F., *et al.* (See Curtis, Jesse T., assignor.)

Leggett, Clinton H., New York, N. Y. Advertising or amusement device. No. 1,346,219; July 13; v. 276; p. 237.

Le Francois, William, Pawtucket, R. I. Valve. No. 1,345,682; July 6; v. 276; p. 69.

Legrandeur, Joseph A., Toronto, Ontario, Canada. Jeweler's pin-pointer. No. 1,347,547; July 27; v. 276; p. 615.

Lehmann, Ferdinand A., Omaha, Nebr. Ladder attachment. No. 1,346,831; July 20; v. 276; p. 417.

Leifer, Charles E., Little Rock, Ark. Lock. No. 1,345,787; July 6; v. 276; p. 90.

Leisen, Francis J., Metuchen, N. J., and E. S. Dunn, Huntington, W. Va. Tunnel-kiln. No. 1,345,605; July 6; v. 276; p. 54.

Leistmann, Alfred, Brooklyn, N. Y. Gas-heater. No. 1,346,456; July 13; v. 276; p. 284.

Leith, Alexander B., Chicago, Ill. Perambulator. No. 1,347,169; July 20; v. 276; p. 484.

Leja, Jozef, Fallentimber, Pa. Coin-assorting apparatus. No. 1,346,457; July 13; v. 276; p. 285.

Lemay, Henry A., Brooklyn, N. Y. Splicing-machine. No. 1,345,375; July 6; v. 276; p. 10.

Le Mesurier, Louis J., assignor of one-half to Sir W. G. Armstrong Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Airplane-launching apparatus. No. 1,347,105; July 20; v. 276; p. 471.

Lemon, Robert L., assignor to The Van Camp Packing Co., Indianapolis, Ind. Packing-box. No. 1,346,661; July 13; v. 276; p. 325.

Lent, Wilmar F., New York, N. Y., assignor to The Cutler-Hammer M'f'g Co., Milwaukee, Wis. Motor-controller. No. 1,347,863; July 27; v. 276; p. 679.

Leon, Elmer G., Hubbleton, Wis. Automatic safe-closer. No. 1,348,017; July 27; v. 276; p. 709.

Leonard, Caswell L., Corinth, Miss. Bread-slicing board. No. 1,345,376; July 6; v. 276; p. 10.

Leonard, James P., Joliet, Ill. Dental appliance. No. 1,345,606; July 6; v. 276; p. 55.

Lepley, Daniel F., Connellsville, Pa. Stop mechanism. No. 1,346,378; July 13; v. 276; p. 269.

Lester, Fred E., near San Jose, Calif. Machine for preparing fruit for drying. No. 1,345,607; July 6; v. 276; p. 55.

Lethern, Albert A., London, England, assignor, by mesne assignments, to F. R. Batchelder. Carrier for ammunition. No. 1,345,864; July 6; v. 276; p. 105.

Levy, William. (See Morris, D., and Levy, assignors.)

Lewis, Allen H., Wichita, Kans. Seat automatic gear control. No. 1,347,641; July 27; v. 276; p. 634.

Lewis, Edward H., Scranton, Pa. Wheel. No. 1,346,756; July 13; v. 276; p. 344.

Lewis, Forest, Charleston, W. Va. Lunch-box. No. 1,346,220; July 13; v. 276; p. 237.
Lewis, Jesse D., assignor to S. E. Allen, H. D. Rives, and F. Carroll, Los Angeles, Calif. Measure. No. 1,347,465; July 20; v. 276; p. 542.
Lewis, John L., Seattle, Wash. Musical stringed instrument. No. 1,346,458; July 13; v. 276; p. 285.
Lewis, Leo R., Somerville, Mass. Loose-leaf binder. No. 1,347,342; July 20; v. 276; p. 518.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,347,045; July 20; v. 276; p. 460.
Lewis, Samuel R., El Paso, Tex. Crown-setter. No. 1,345,608; July 6; v. 276; p. 55.
Lewis, Stephen M., Sweet Home, Ark. Incubator. No. 1,346,717; July 13; v. 276; p. 336.
Lewis, Willard L., Walpole, Mass. Device for opening and guiding webs of cloth, &c. No. 1,346,540; July 13; v. 276; p. 303.
Lewis, William K., and D. T. Blevins, Denver, Colo., assignors to The National Beet Harvester Company. Beet-harvester. No. 1,346,322; July 13; v. 276; p. 259.
Libbey-Owens Sheet Glass Company, The. (See Owens, Michael J., assignor.)
Libby, Sam H., East Orange, N. J., assignor to General Electric Company. Electric hoist. No. 1,347,785; July 27; v. 276; p. 663.
Liberty, Saül E., Pawtucket, R. I. Loom-shuttle. No. 1,347,170; July 20; v. 276; p. 484.
Liberty Self Service Corporation. (See Carroll, James H., assignor.)
Liberty Tool Company, The. (See Astin, Ernest S., assignor.)
Lichtenberg, Fred and M. M. McCarthy, Yonkers, N. Y. Building construction. No. 1,348,018; July 27; v. 276; p. 709.
Lichtenberger, Louis J. (See Hubner, Anthony, assignor.)
Lichter, Malvin, New York, N. Y. Preparing plates for printing. No. 1,348,019; July 27; v. 276; p. 710.
Liddle, Absalom, *et al.* (See Dabbs, A. E., Savage, and Hindle, assignors.)
Lidseen, Gustave, Chicago, Ill. Lever operating mechanism for oil-cans. No. 1,345,788; July 6; v. 276; p. 90.
Lidseen, Gustave, Chicago, Ill. Oil-can lever mechanism. No. 1,346,130; July 13; v. 276; p. 220.
Liebowitz, Benjamin, New Rochelle, N. Y. Friction-pivot. No. 1,348,020; July 27; v. 276; p. 710.
Liedtke, Hugo F., Hagerstown, Md. Vibrator. No. 1,346,221; July 13; v. 276; p. 237.
Liggett & Myers Tobacco Company. (See Dula, Caleb C., assignor.)
Likly, Henry, Company. (See Likly, Henry K., assignor.)
Likly, Henry K., assignor to Henry Likly Company, Rochester, N. Y. Self-closing trunk-bag. No. 1,347,390; July 20; v. 276; p. 527.
Lillibridge, Mary A., Waterford township, Erie county, Pa. Stay-securing device. No. 1,348,021; July 27; v. 276; p. 710.
Lillie, Andrew. (See Kuznik, August, assignor.)
Limpert, Alexander S., Pittsburgh, Pa., assignor to Golden Glow Sign Corporation, New York, N. Y. Illuminated sign. No. 1,346,490; July 13; v. 276; p. 293.
Lincoln Steel and Forge Company. (See Krieger, John T., assignor.)
Lindahl, Anders, Hässleholm, Sweden. Sealing apparatus. No. 1,346,902; July 20; v. 276; p. 431.
Lindbarger, Silas C., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory article and making same. No. 1,345,377; July 6; v. 276; p. 10.
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich. Wheel-retainer. No. 1,345,545; July 6; v. 276; p. 43.
Lindeman, Joseph, New York, N. Y. Plastic pile. No. 1,346,222; July 13; v. 276; p. 238.
Lindman, Konrad W., Stockholm, assignor, by mesne assignments, to Nordiska, Kullager Aktiebolaget, Gottenborg, Sweden. Ball-holder for ball-bearings and manufacturing same. No. 1,346,323; July 13; v. 276; p. 259.
Lindsay, George W., assignor to Denver Fire Clay Company, Denver, Colo. Crane-hinge for muffle-furnace doors. No. 1,346,903; July 20; v. 276; p. 432.
Lindsay, Hamilton, Willoughby, Ohio. Locomotive-stoker. No. 1,347,281; July 20; v. 276; p. 506.
Linga, Torbjörn, Winthrop Harbor, Ill. Carbureter. No. 1,345,546; July 6; v. 276; p. 43.
Link-Belt Company. (See Pratt, Howell D., assignor.)
Link-Belt Company. (See Spaulding, Fenton J., assignor.)
Lomax, Alfa, Atlanta, Ga. Photograph-cleaning device. No. 1,346,662; July 13; v. 276; p. 325.
Lombardi, Lamberto, Rome, Italy. Electric-arc furnace. No. 1,346,223; July 13; v. 276; p. 238.
Long, William H., New York, N. Y. Grainer for planographic plates. No. 1,346,501; July 13; v. 276; p. 293.
Linley, Charles M., London, England. Apparatus for playing a game of skill with a captive ball. No. 1,345,789; July 6; v. 276; p. 91.
Loose Wiles Biscuit Company. (See Smith, Joseph J., assignor.)
Lipar, Frank, Trommald, Minn. Cuspidor. No. 1,345,609; July 6; v. 276; p. 55.
Lipner, Abe, Indiana Harbor, Ind. Tailor's implement. No. 1,346,852; July 20; v. 276; p. 418.
Lippert, Samuel, Cleveland, Ohio. Thermally-controlled float. No. 1,345,938; July 6; v. 276; p. 121.
Liptak, Michael, St. Paul, Minn. Fire-arch for boilers. No. 1,347,514; July 27; v. 276; p. 609.
Litchfield, Henry L., Waterloo, Iowa. Combination manure and straw spreader. No. 1,347,583; July 27; v. 276; p. 623.
Little, Robert H., assignor to U. S. Sanitary Specialties Corporation, Chicago, Ill. Dispensing-machine. No. 1,345,865; July 6; v. 276; p. 105.
Livingston, John G. (See Newton, William J., assignor.)
Livingstone, Frank M., assignor to Fuel Economy Company, Springfield, Mass. Gaseous mixer device. No. 1,345,791; July 6; v. 276; p. 91.
Livingstone, George M. (See Schaefer, P. C., Hulse, and Livingstone.)
Ljungström, Birger, Stockholm, Sweden, assignor to Aktiebolaget Ljungströms Angturbin. Means for securing turbine-motors to their shafts. No. 1,347,343; July 20; v. 276; p. 519.
Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Means for securing turbine-rotors to their shafts. No. 1,347,344; July 20; v. 276; p. 519.
Lloyd, Converse W., Chicago, Ill., assignor to The Sani-Fold Company of California. Folding toothbrush. No. 1,345,939; July 6; v. 276; p. 121.
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Locomobile Company, The. (See Riker, Andrew L., assignor.)
Locomobile Company of America, The. (See Roos, Delmar G., assignor.)
Lodge Fume Company, Limited, The. (See Lodge, Lionel, assignor.)
Lodge, Lionel, assignor to The Lodge Fume Company, Limited, Birmingham, England. Electrical deposition of particles from gases. No. 1,345,790; July 6; v. 276; p. 91.
Loeb, Henry, *et al.* (See McNerny, Clyde J., assignor.)
Lofgren, John, assignor to Ralco Manufacturing Co., Chicago, Ill. Combination safety-switch and receptacle. No. 1,347,345; July 20; v. 276; p. 519.
Londt, David F., Columbia City, Ind. Safety tractor-hitch. No. 1,347,346; July 20; v. 276; p. 519.
Longacre, Frederick D., Yonkers, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Starting means for motor-driven compressor installations. No. 1,347,786; July 27; v. 276; p. 664.
Longstreth, John W., Waynesburg, Pa. Fire-extinguisher. No. 1,346,035; July 6; v. 276; p. 140.
Looney, William E., Detroit, Mich. Internal-combustion engine. No. 1,345,940; July 6; v. 276; p. 121.
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Loose, Johannes, assignor to Fortuna-Werke, Spezialmaschinenfabrik, G. m. b. H., Stuttgart-Cannstatt, Germany. Leather-paring machine. No. 1,345,941; July 6; v. 276; p. 121.
Lord, Joseph S. and S. S., Manchester, England. Machine for treating yarn in hank form. No. 1,346,833; July 20; v. 276; p. 418.
Lord, Sam S. (See Lord, Joseph S. and S. S.)
Lorenson, Lorens C., assignor to C. H. Petry, Hudson, N. Y. Bagging-machine. No. 1,345,866; July 6; v. 276; p. 105.
Loring, Waldo F., Duxbury, assignor of one-half to J. B. Hadaway, Swampscott, Mass. Device for harvesting cranberries. No. 1,348,132; July 27; v. 276; p. 732.
Lorking, Francis H., Wayville, South Australia, Australia. Adjustable electric contact. No. 1,347,391; July 20; v. 276; p. 528.
Louden Machinery Company, The. (See Hassler, P. M., and Neller, assignors.)
Lovelace, Paul U., Clinton, Okla. Grinding-tool. No. 1,346,036; July 6; v. 276; p. 140.
Lovell, William V., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-vacuum pumping system. No. 1,346,408; July 13; v. 276; p. 274.
Loyster, James A., Cazenovia, N. Y. Cap for milk-bottles and similar receptacles. No. 1,346,757; July 13; v. 276; p. 344.
Lozzitto, Rocco, and L. Moss, New York, N. Y. Bottle-holder. No. 1,346,901; July 20; v. 276; p. 431.
Lucas, August L., New Haven, Conn. Combination-tool. No. 1,346,409; July 13; v. 276; p. 275.
Lucke, Charles E., New York, and J. Good, assignors to Good Inventions Co., Brooklyn, N. Y. Liquid-fuel carburation. No. 1,345,378; July 6; v. 276; p. 10.
Lundberg, Fred, Chicago, Ill. Lock for burial-caskets. No. 1,345,451; July 6; v. 276; p. 24.
Luttinger, William G., Jerome, Ariz. Burner. No. 1,346,904; July 20; v. 276; p. 432.
Lutz, Julius H., New York, N. Y. Clasp for necklaces and the like. No. 1,347,515; July 27; v. 276; p. 609.
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Lyon, Harry A., Kansas City, Mo., assignor of one-half to J. L. Orr, Springfield, Ohio. Automatic water-feed for ensilage apparatus. No. 1,347,392; July 20; v. 276; p. 528.
Lytwynec, Dmytro, Hafford, Saskatchewan, Canada. Combination bed and chair. No. 1,347,748; July 27; v. 276; p. 656.

McAllister, Lawrence E., Bellaire, Ohio. Method and apparatus for determination of moisture in solid materials. No. 1,347,100; July 20; v. 276; p. 472.
McArthur, Warren, Jr., Phoenix, Ariz. Radiator-cap. No. 1,345,379; July 6; v. 276; p. 10.
McAvoy, Francis J., Newark, N. J. Locking device for eccentric bushings. No. 1,348,022; July 27; v. 276; p. 710.
McAvoy, Francis J., Newark, N. J. Locking device for eccentric bushings. No. 1,348,023; July 27; v. 276; p. 710.
McAvoy, John A., assignor to McAvoy Manufacturin Company, Chicago, Ill. Imitation-beveled-glass panel. No. 1,345,792; July 6; v. 276; p. 91.
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McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Making valve tappet and rolle holders for hydrocarbon-motors. No. 1,345,942; July 6 v. 276; p. 122.
McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No 1,345,943; July 6; v. 276; p. 122.
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McCann, John, Paterson, N. J. Shuttle. No. 1,346,037; July 6; v. 276; p. 140.
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McCann, Joseph L., J. P., and J., Bridgeport, Conn. Collapsible tent-frame. No. 1,347,107; July 20; v. 276; p. 472.
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Mc arthy, William B., Jackson, Miss. Self-serving store. No. 1,348,024; July 27; v. 276; p. 711.
McCartney, Elmer B., assignor to Toro Motor Company, Minneapolis, Minn. Convertible cultivator-tractor. No. 1,345,498; July 6; v. 276; p. 34.
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McClair, Alice P., Atlanta, Ga. Revolving window-frame. No. 1,346,663; July 13; v. 276; p. 325.
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McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Company, Seattle, Wash. Driving apparatus for monorail-trucks. No. 1,345,867; July 6; v. 276; p. 106.
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McConway & Torley Company, The. (See George, Enoch, Jr., assignor.)
McConway & Torley Company, The. (See Kelso, William and J., assignors.)
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McCook, Daniel M., Manchester, Ga. Water-gage. No. 1,347,701; July 27; v. 276; p. 646.
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McCreary, Alfred W., Mount Pleasant, Pa. Combination screen-bed. No. 1,347,393; July 20; v. 276; p. 528.
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McDougall, Alexander, Duluth, Minn. Vessel. No. 1,345,611; July 6; v. 276; p. 55.
McDougall, Andrew H., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Car-hoist. No. 1,346,324; July 13; v. 276; p. 259.
McElroy, James A., Kansas City, Mo. Shocker attachment for grain-binders. No. 1,345,381; July 6; v. 276; p. 11.
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McGoldrick, Timothy, Lincoln, N. H. Coal-screen and ash-sifter. No. 1,346,905; July 20; v. 276; p. 432.
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McKellar, Alexander, Greenock, Scotland. Means for facilitating the withdrawal of cigarettes or the like from their cases. No. 1,347,816; July 27; v. 276; p. 669.
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McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Hood-hinge support. No. 1,346,325; July 13; v. 276; p. 259.
McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Motor-vehicle construction. No. 1,346,326; July 13; v. 276; p. 259.
McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Control of induction-motor. No. 1,347,751; July 27; v. 276; p. 657.
McMahon, Frank, and R. A. Houston, South Charleston, Ohio. Screen for windshields. No. 1,346,664; July 13; v. 276; p. 328.
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McManus, Charles E., New York, N. Y. Resilient rod. No. 1,346,854; July 20; v. 276; p. 418.
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McNatt, Lucie R., Arlington, Tex. Comfort and the like. No. 1,347,642; July 27; v. 276; p. 634.
McNerny, Clyde J., assignor to H. Loeb and H. Hurst, Memphis, Tenn. Oil-burner. No. 1,345,612; July 6; v. 276; p. 56.
McNutt, Hiram F., Richmond, Ind. Aeroplane-drive. No. 1,346,327; July 13; v. 276; p. 260.
McOmber, Loreu W., Milwaukee, Wis., assignor of one-half to C. B. Belknap, Detroit, Mich. Treating hydrocarbons. No. 1,345,452; July 6; v. 276; p. 24.
McQuitty, Robert A., London, England. Manufacturing sheets of edible gelatin. No. 1,347,228; July 20; v. 276; p. 495.
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McRae, Daniel, Central Islip, N. Y. Rowing-gear. No. 1,346,040; July 6; v. 276; p. 141.
McRae, John, Vancouver, British Columbia, Canada. Marine-engine-operation indicator. No. 1,345,384; July 6; v. 276; p. 11.
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Maag, Max, Zurich, Switzerland. Gear-cutting machine. (Reissue.) No. 14,908; July 6; v. 276; p. 154.
Maag, Max, Zurich, Switzerland. Gear-cutting machine. (Reissue.) No. 14,909; July 6; v. 276; p. 154.
Mable, Ralph R. New York, N. Y. Support for shingles. No. 1,345,683; July 6; v. 276; p. 70.
MacDonald, Creighton S., Attleboro, Mass. Buckle. No. 1,347,171; July 20; v. 276; p. 484.
Macdonald, David B., Leicester, England. Toe-puff and like stiffener for boots and shoes. No. 1,345,944; July 6; v. 276; p. 122.
MacDonald, George S., Portland, Oreg. Internal-combustion engine. No. 1,347,817; July 27; v. 276; p. 669.
Macfarlane, George T., Pinner, England. Winch. No. 1,345,613; July 6; v. 276; p. 56.
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Macheroux, Louis, assignor of one-half to K. Matheus, Chicago, Ill. Elastic extension device. No. 1,345,945; July 6; v. 276; p. 122.
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Mackintosh, Edward D., Brooklyn, assignor to S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y. Brake. No. 1,347,347; July 20; v. 276; p. 519.
Maclagen, John C. M., Glasgow, Scotland. Piston and piston-rod for internal-combustion engines. No. 1,346,041; July 6; v. 276; p. 141.
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Madden, James J., Aberdeen, S. D. Lens. No. 1,346,410; July 13; v. 276; p. 275.
Mager, Math, Garfield, Minn. Antiskid-chain. No. 1,346,226; July 13; v. 276; p. 238.
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Mahana, Charles G., E. D. Glidden, and M. P. Laurent, Three Rivers, Mich., assignors to Fairbanks, Morse & Company, Chicago, Ill. Railway motor-car. No. 1,346,227; July 13; v. 276; p. 238.
Maher, Charles A., Wallowa, Oreg. Soap and applicator holder. No. 1,348,025; July 27; v. 276; p. 711.
Maire, Auguste, Argenteuil, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Means for attaching sheet-steel jackets to cast-iron motor-cylinders for water-cooling and other purposes. No. 1,345,684; July 6; v. 276; p. 70.
Maire, Auguste, Argenteuil, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie, De Luneville, Paris, France. Means for fitting up screw-propeller hubs upon their shafts. No. 1,346,665; July 13; v. 276; p. 326.
Maier, Charles G. (See Van Arsdale, G. D., and Maier.)

Maize, Frank P., Portland, Oreg. Auto-pedals lock. No. 1,346,098; July 6; v. 276; p. 152.
Malcolm, Thomas, Hartford, Conn. Door-frame and similar structure. No. 1,347,172; July 20; v. 276; p. 484.
Malin, George E., Painesville, Ohio. Tractor-cultivator. No. 1,347,818; July 27; v. 276; p. 669.
Malleable Iron Fittings Co., The. (See Pickop, George B., assignor.)
Mallette, George T., Irvington, assignor to New Jersey Patent Company, West Orange, N. J. Packing-frame. No. 1,347,643; July 27; v. 276; p. 634.
Malm, Axel C. V., Philadelphia, Pa., assignor to The Malm Machine Company, Dayton, Ohio. Rotary punch-press and the like. No. 1,347,644; July 27; v. 276; p. 634.
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Malyshеff, Alexander P., Tomsk, Russia, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Machine for testing. No. 1,348,026; July 27; v. 276; p. 711.
Mancini, Amedeo A., Brooklyn, N. Y. Time-lock. No. 1,347,047; July 20; v. 276; p. 461.
Manker, Charles C., Des Moines, Iowa, assignor of one-half to J. B. Fayant, Golconda, Nev. Internal-combustion engine. No. 1,345,614; July 6; v. 276; p. 56.
Mann, Aaron L., Grand Rapids, Mich. Flatiron-holder. No. 1,347,123; July 20; v. 276; p. 475.
Manning, Coleman J., Medford, Mass. Pressure-gage. No. 1,346,604; July 13; v. 276; p. 314.
Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Binder. No. 1,346,328; July 13; v. 276; p. 260.
Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Posting-stand. No. 1,347,645; July 27; v. 276; p. 634.
Manson, Ray H., Rochester, N. Y., assignor to The General Phonograph Manufacturing Company, Elyria, Ohio. Means for protecting governors. No. 1,346,228; July 13; v. 276; p. 239.
Manthey, Otto J., Toledo, assignor to Ralph H. Culley, Rochester, Ohio. Permutation-lock for steering-wheels. No. 1,347,516; July 27; v. 276; p. 609.
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Mapelsden, Harold H., Schenectady, N. Y., assignor to General Electric Company. Recording mechanism. No. 1,347,787; July 27; v. 276; p. 664.
Mapes, Gailen F., Minneapolis, Minn. Typewriting-machine. No. 1,346,605; July 13; v. 276; p. 314.
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Mardaus, Albert H., Minneapolis, Minn. Door stop and holder. No. 1,347,048; July 20; v. 276; p. 461.
Marker, Stephen A., Newark, N. J. Suspensory. No. 1,347,864; July 27; v. 276; p. 679.
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Markkula, Matt, Fort Bragg, Calif. Stake for cars. No. 1,346,836; July 20; v. 276; p. 418.
Markoff, Samuel A., Providence, R. I. Mailing device. No. 1,346,502; July 13; v. 276; p. 294.
Marks, Isidore, assignor to Keystone Manufacturing Company, Boston, Mass. Motion-picture machine. No. 1,345,793; July 6; v. 276; p. 91.
Markwick, John, Detroit, Mich. Food-safe for windows. No. 1,348,027; July 27; v. 276; p. 711.
Marqua, Edward C., Kansas City, Mo. Concrete-form support and bracket. No. 1,346,131; July 13; v. 276; p. 221.
Marshall, John F., Ashland, Wis. Rod-joint. No. 1,347,111; July 20; v. 276; p. 473.
Marshick, Oliver J. (See Crosby, E. L., and Marshick.)
Martin, Alton R., Buffalo, N. Y. Headlight. No. 1,347,394; July 20; v. 276; p. 528.
Martin, Cecil R., assignor to Frantz Manufacturing Co., Sterling, Ill. Door-lock. No. 1,348,028; July 27; v. 276; p. 712.
Martin, George W., Fort Worth, Tex. Screen pickup-roller. No. 1,346,550; July 13; v. 276; p. 303.
Martin, George W., Philadelphia, N. Y. Combination child's chair. No. 1,347,702; July 27; v. 276; p. 646.
Martin, Talbot G., Chicago, and E. Jacobsen, Evanston, assignors to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,347,584; July 27; v. 276; p. 623.
Martin, William A., and M. P. Roebuck, Waxahachie, assignors of one-third to G. E. White, Fort Worth, Tex. Cotton-chopper attachment for cultivators. No. 1,347,646; July 27; v. 276; p. 635.
Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Correcting circuits for high-distortion lines. No. 1,347,049; July 20; v. 276; p. 461.
Marvick, Frederick N., Pine Bluff, Ark. Sill construction. No. 1,346,459; July 13; v. 276; p. 285.
Mascart, Charles, Croissy-sur-Seine, France. Transporting and elevating apparatus. No. 1,345,454; July 6; v. 276; p. 25.
Maske, Robert W., Chicago, Ill. Faucet. No. 1,345,615; July 6; v. 276; p. 56.
Mason, Charles E., Detroit, Mich., assignor to G. Waldref, St. Paul, Minn. Manifold-bracket for hydraulic hoists. No. 1,345,616; July 6; v. 276; p. 56.
Mason, Joseph, New York, N. Y., assignor, by mesne assignments, to Prizma Incorporated. Method and apparatus for treating films. No. 1,348,029; July 27; v. 276; p. 712.
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Massi, Anthony, Rochester, N. Y. Check-printer. No. 1,345,794; July 6; v. 276; p. 91.
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Masury, Alfred F., and R. S. Bolger, assignors to International Motor Company, New York, N. Y. Clutch-control device. No. 1,345,685; July 6; v. 276; p. 70.
Mathes, Gunther E. H., assignor to Waterbury Clock Co., Waterbury, Conn. Metal clock-dial. No. 1,347,173; July 20; v. 276; p. 484.
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Mathison, Albert O., New Britain, Conn. Work-holding device. No. 1,346,504; July 13; v. 276; p. 294.
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Mawdsley, John H. St. H., Dursley, and H. F. Joel, Sr., Forest Gate, England. Dynamo-electric machinery. No. 1,347,647; July 27; v. 276; p. 635.
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Maxwell, James T. (See Van Vleet, C. W., and Haley.)
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May, George T., Jr. (See Whitelaw, J., and May.)
Mead, Ezra B., Ottumwa, Iowa. Boring-machine attachment. No. 1,345,455; July 6; v. 276; p. 25.
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Medart, Philip S., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Playground-swing. No. 1,345,385; July 6; v. 276; p. 11.
Mediavilla, Leopoldo, and J. L. Canales, New York, N. Y. Boring-bar. No. 1,346,230; July 13; v. 276; p. 239.
Medwatz, Anton, Allentown, Pa. Extinguishing attachment for lamp-burners. No. 1,347,749; July 27; v. 276; p. 657.
Mehta, Phirozeshaw M., Poona, India. Rifle. No. 1,346,329; July 13; v. 276; p. 260.
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Meitner, Elemer, Brooklyn, N. Y. Astronomical instrument. No. 1,346,412; July 13; v. 276; p. 275.
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Menchen, Joseph, assignor to Vacuum Record Lifter, Ltd., New York, N. Y. Record-lifter. No. 1,347,548; July 27; v. 276; p. 616.
Meneely, Samuel J., Newburgh, N. Y. Windshield for automobiles. No. 1,347,752; July 27; v. 276; p. 657.
Mercier, Amédée. (See Richardson, G. A., and Mercier.)
Mercier, Daniel, Annonay, Ardèche, France. Machine for treating hides and skins. No. 1,347,866; July 27; v. 276; p. 679.
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Merfeld, Leo J., Cascade, Iowa. Kitchen utensil. No. 1,347,112; July 20; v. 276; p. 473.
Merriam, J. G., Company. (See Merriam, Joseph G., assignor.)
Merriam, Joseph G., assignor to J. G. Merriam Company, Meriden, Conn. Turntable for phonographs. No. 1,347,113; July 20; v. 276; p. 473.
Merrill Company, The. (See Kuryla, Michael H., assignor.)
Metallograph Corporation. (See Warga, Kalman, assignor.)
Metcalf, Fred F., Chicago, Ill. Necktie-stretcher. No. 1,346,552; July 13; v. 276; p. 304.
Metesser, Lewis, New Orleans, La. Valve. No. 1,345,686; July 6; v. 276; p. 70.
Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)

Meyer, Adolph E., Webster Groves, assignor to Textile Products Manufacturing Company, St. Louis, Mo. Cotton-picker's sack. No. 1,347,704; July 27; v. 276; p. 647.
Meyer, Albert R., Sacramento, Calif. Spark-plug. No. 1,346,759; July 13; v. 276; p. 345.
Meyer, Bernhard H., New Haven, Conn. Drapery-clip. No. 1,345,868; July 6; v. 276; p. 106.
Meyer, Geo. J., Manufacturing Company. (See Meyer, George J., assignor.)
Meyer, George J., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Loader for bottle-washers. No. 1,345,617; July 6; v. 276; p. 57.
Meyer, Nicolaas E. G. (See Schoute C., van Heyst, and Meyer.)
Meyers, Alfred M., Merriam, Kans. Plate-bending machine. No. 1,345,386; July 6; v. 276; p. 12.
Meyfarth, John L., Chicago, Ill. Coin-controlled vending-machine. No. 1,345,499; July 6; v. 276; p. 34.
Michigan Lubricator Company. (See Corliss, Cullen D., assignor.)
Miehle Printing Press & Manufacturing Company. (See Blaine, Joseph R., assignor.)
Michna, George, Albany, N. Y. Sand-loading device. No. 1,346,460; July 13; v. 276; p. 286.
Michod, Charles L., Morgan Park, Ill. Storing vehicles. No. 1,347,960; July 27; v. 276; p. 697.
Midgett, Peneiton G., Dallas, Tex. Well-drilling bit. No. 1,346,133; July 13; v. 276; p. 221.
Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Overflow-cavity for molds. No. 1,346,232; July 13; v. 276; p. 240.
Midgley, Thomas, Jr. (See Midgley, Thomas, Sr., and T., Jr.)
Midgley, Thomas, Sr., Columbus, and T. Midgley, Jr., Dayton, Ohio, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-core. No. 1,346,231; July 13; v. 276; p. 239.
Miehle Printing Press & Manufacturing Company. (See Hodgman, Willis K., assignor.)
Mighell, Seward N., Chicago, Ill. Coal-mining machine. No. 1,346,966; July 20; v. 276; p. 444.
Mikolyn, Ewdokija, Charleroi, Pa. Curtain-pole and window-shade holder. No. 1,346,233; July 13; v. 276, p. 240.
Militor Corporation, The. (See Neuteboom, Boudewijn B., assignor.)
Milker, Herbert P., assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,345,687; July 6; v. 276; p. 70.
Milker, Herbert P., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,345,795; July 6; v. 276; p. 92.
Millard, William J., New York, N. Y. Automobile-bumper. No. 1,348,030; July 27; v. 276; p. 712.
Miller, Henry N., Chicago, Ill. Multicolored apparatus. No. 1,346,234; July 13; v. 276; p. 240.
Miller, Hettie S., *et al.* (See Price, James W., assignor.)
Miller, Hiram C., Parkersburg, Pa. Locking device for steering-wheels. No. 1,346,837; July 20; v. 276; p. 419.
Miller, Jack, and J. Miller, Montreal, Quebec, Canada. Fastening device. No. 1,347,705; July 27; v. 276; p. 647.
Miller, James A., Beeville, Tex. Plow attachment. No. 1,345,869; July 6; v. 276; p. 106.
Miller, John. (See Miller, J., and J.)
Millis, Phineas A., Lewiston, Me. Stop-motion for looms. No. 1,347,395; July 20; v. 276; p. 528.
Mills, Frederick M., *et al.* (See Gibson, Walter I., assignor.)
Mills, William. (See Morgan, William, assignor.)
Mills, William. (See Sleeper, J. J., and Mills.)
Mims, James R., Luray, Va. Silo. No. 1,347,284; July 20; v. 276; p. 507.
Milne, Robert. (See Johnson, O. W., and Milne.)
Miner, William H. (See O'Connor, John F., assignor.)
Minerva Engine Company, The. (See Johnson, Royal K., assignor.)
Minneapolis Knitting Works. (See Ovenshire, Charles E., assignor.)
Minor, William F., P. C. Keller, Cleveland, and T. W. Rolph, Sebring, Ohio, assignors to General Electric Company. Reflector. No. 1,345,796; July 6; v. 276; p. 92.
Minorikawa, Naosaburo, Tokyo, Japan. Stoking apparatus. No. 1,346,379; July 13; v. 276; p. 269.
Mitchell, Charles L., Randolph, Nebr. Accelerator for automobiles. No. 1,347,227; July 20; v. 276; p. 495.
Mitchell, Eric C., Vancouver, British Columbia, Canada. Hose connection to nipples. No. 1,346,330; July 13; v. 276; p. 260.
Mitchell, James L. (See Dawson, James V., assignor.)
Mitchell, John E., and D. Parks, St. Louis, Mo. Bulkhead construction. No. 1,348,031; July 27; v. 276; p. 712.
Mitchell, Leon, Dorchester, Mass. Dough-dropper for frying doughnuts. No. 1,345,500; July 6; v. 276; p. 34.
Mitchell, Leon, Dorchester, Mass. Stove. No. 1,347,586; July 27; v. 276; p. 623.
Mitchell, Roy, Enid, Okla. Socket-wrench. No. 1,346,505; July 13; v. 276; p. 294.
Mitchell, William G. (See Watson, Alexander, assignor.)
Mitten, Philip J., Philadelphia, Pa. Mileage or like ticket. No. 1,347,867; July 27; v. 276; p. 680.
Miyasaki, Yuske, McKees Rocks, Pa. Locking device for levers. No. 1,345,618; July 6; v. 276; p. 57.
Mizer, Joseph J., and V. Jakob, assignors to Walker Manufacturing Company, Racine, Wis. Lifting-jack. No. 1,345,797; July 6; v. 276; p. 92.
Möllerhöj, Johannes S., Frederiksberg, near Copenhagen, Denmark. Arrangement and connector for the jointing of electrical wires. No. 1,346,506; July 13; v. 276; p. 294.
Monitor Stove & Range Company, The. (See Doyle, W. J., and Wollenhaupt, assignors.)
Montague, Edward, Chicago, Ill. Valve. No. 1,345,548; July 6; v. 276; p. 44.
Montaruli, Giuseppe V., Rome, Italy. Construction of ships. No. 1,346,760; July 13; v. 276; p. 345.
Montelius, Ira H., Portland, Oreg. Draft-hook. No. 1,346,906; July 20; v. 276; p. 432.
Moody, John P. (See Moody, William F., assignor.)
Moody, Mason C., Fairfield, Ala. Automobile-heater. No. 1,348,032; July 27; v. 276; p. 712.
Moody, William F., assignor of one-tenth to J. P. Moody, Denver, Colo. Folding camp-berth. No. 1,346,043; July 6; v. 276; p. 142.
Mooers, Louis P., Cincinnati, assignor to The Cleveland Trust Company, Cleveland, Ohio. Piston for internal-combustion motors. No. 1,347,819; July 27; v. 276; p. 669.
Moomy, Joseph G., Erie, Pa. Wrench mechanism. No. 1,345,619; July 6; v. 276; p. 57.
Moon, George C., Cranford, N. J. Wire rope. No. 1,348,033; July 27; v. 276; p. 713.
Moore, Edward Y., Cleveland, Ohio. Hoist. No. 1,348,034; July 27; v. 276; p. 713.
Moore, Frank P., St. Joseph, Mo. Blower and suction carpet and rug cleaner. No. 1,346,044; July 6; v. 276; p. 142.
Moore, James D., Northwilkesboro, N. C. Grits-separating machine. No. 1,347,114; July 20; v. 276; p. 473.
Moore, James E. A. (See Peck, F. A., and Moore.)
Moore, John L., Butler, Mo. Power-transmission mechanism. No. 1,347,961; July 27; v. 276; p. 698.
Moore, Martin A., Topeka, Kans. Gas-burner. No. 1,346,761; July 13; v. 276; p. 345.
Moore, Roy W., Schenectady, N. Y., assignor to General Electric Company. Crystal production. No. 1,347,350; July 20; v. 276; p. 520.
Moore, Swinfen B., Huddersfield, England. Change-speed gear. No. 1,345,688; July 6; v. 276; p. 71.
Moore, William E., assignor to G. S. Parker and W. F. Palmer, Janesville, Wis. Pressure-bar mechanism. No. 1,346,045; July 6; v. 276; p. 142.
Moran, Walter R., assignor of one-half to A. Goldstein, Worcester, Mass. Automobile-alarm. No. 1,345,387; July 6; v. 276; p. 12.
Morand, Daniel F. (See Cutler, C., and Morand.)
Morehouse, Clarence A., Lawrence, Kans. Chain-fastener. No. 1,346,046; July 6; v. 276; p. 142.
Morelli, Joseph, Brooklyn, N. Y. Foldable window-seat. No. 1,347,115; July 20; v. 276; p. 473.
Morgan Construction Company. (See Sheperdson, John W., assignor.)
Morgan, John H., Kent, England. Bracket for shelving and the like. No. 1,347,116; July 20; v. 276; p. 473.
Morgan, William, assignor of one-half to W. Mills, Birmingham, England. Carburation device for internal-combustion engines. No. 1,347,820; July 27; v. 276; p. 670.
Morgan & Wright. (See Wetlon, Harry A., assignor.)
Morley, William N. (See Pollard, E. T., and Morley.)
Morris, David, and W. Levy, Paterson, N. J.; said Morris assignor to said Levy. Control-lever lock for automobiles. No. 1,346,762; July 13; v. 276; p. 345.
Morris, Fields J., Durango, Colo. Dustpan. No. 1,346,380; July 13; v. 276; p. 269.
Morris, Francis D. (See Walz, C. F., and Morris.)
Morris, Herbert, Limited. (See Purnell, W. H., and Butterworth, assignors.)
Morris, Joseph, Elton, near Chester, England. Shell or projectile. No. 1,345,689; July 6; v. 276; p. 71.
Morris, Joseph J., Stockton, Calif. Lock. No. 1,346,763; July 13; v. 276; p. 345.
Morrison, Dennis W., Indiana Harbor, Ind. Lattice-truss. No. 1,345,501; July 6; v. 276; p. 34.
Morrison, John, Jr., Glens Falls, N. Y. Brush. No. 1,347,648; July 27; v. 276; p. 635.
Morrison, John, Jr., Glens Falls, N. Y. Assorting bristles. No. 1,347,750; July 27; v. 276; p. 657.
Morse, Lawrence H., and J. J. Tracy, Cleveland, Ohio; said Morse assignor to said Tracy. Windshield-cleaner. (Reissue.) No. 14,920; July 20; v. 276; p. 547.
Mortimer, Louis A., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical relay. No. 1,345,798; July 6; v. 276; p. 92.
Moses, Edmund Q. (See Hammond, William P., assignor.)
Moses, William B., Brookline, Mass., assignor to Gray & Davis, Incorporated, Cambridge, Mass. Power-transmission mechanism. No. 1,347,117; July 20; v. 276; p. 474.
Mosher, Clifford C., Lima, Ohio. Machine for emptying barrels. No. 1,347,649; July 27; v. 276; p. 635.
Mosher, Clifford C., Lima, Ohio. Rubber-cement-mixing machine. No. 1,347,650; July 27; v. 276; p. 635.
Mosler Lock Company, The. (See Benham, Edgar M., assignor.)

Mosler Lock Company, The. (See Benham, William T. and E. M., assignors.)

Mosler, Moses, New York, N. Y., and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Safe. No. 1,347,118; July 20; v. 276; p. 474.

Mosler Safe Company, The. (See Mosler, M., and Bartels, assignors.)

Moss, Louis. (See Loxsitto, R., and Moss.)

Mossberg, Oscar F., New Haven, Conn. Firearm. No. 1,348,035; July 27; v. 276; p. 713.

Mote, Lucy D., Westminster, London, England. Device for supporting and carrying invalids or patients. No. 1,347,549; July 27; v. 276; p. 616.

Motor Terminals Company. (See Fitch, Benjamin F., assignor.)

Motteau, Antime, Buenos Aires, Argentina. Glass-pane holder. No. 1,347,706; July 27; v. 276; p. 647.

Mount, William D., Lynchburg, Va. Filter. No. 1,348,036; July 27; v. 276; p. 713.

Mowbray, Archibald J. H. (See Jones, A. W. Bryden, and Mowbray.)

Moyer, John A., Harriman, Pa. Water glass and column reflector and protector. No. 1,345,799; July 6; v. 276; p. 92.

Mueller, Adolph, trustee. (See Brown, William R., assignor.)

Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)

Mueller, Max E., Youngstown, Ohio. Method of and apparatus for recovering ammonium chlorid. No. 1,346,967; July 20; v. 276; p. 445.

Mueller, Max E., Youngstown, Ohio. Making hydrocyanic acid and cyanids. No. 1,347,518; July 27; v. 276; p. 609.

Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Eel-guard for cocks. No. 1,345,946; July 6; v. 276; p. 122.

Mueller, Rudolph J. J., assignor to Universal Oxygen Company, Sheboygan, Wis. Valve for high-pressure-fluid containers. No. 1,345,388; July 6; v. 276; p. 12.

Mühl, Ernst, Philadelphia, Pa. Steam-condensing turbine. No. 1,346,413; July 13; v. 276; p. 276.

Muir, Archibald C., Brilliant, N. Mex. Railway-track equipment. No. 1,345,389; July 6; v. 276; p. 12.

Muir, Dora K., administratrix. (See Muir, Edward A.)

Muir, Edward A., deceased; D. K. Muir, administratrix, Washington, D. C., assignor to the Government of the United States. Ordnance. No. 1,346,794; July 13; v. 276; p. 352.

Muir, Wellington W., Lockport, N. Y. Cooling system. No. 1,346,331; July 13; v. 276; p. 260.

Müllertz, André, Copenhagen, Denmark. Machine for uncarthing and gathering roots and the like. No. 1,347,962; July 27; v. 276; p. 698.

Muller, Christian, Fall River, Mass. Piston-grooving tool. No. 1,346,838; July 20; v. 276; p. 419.

Müller, Friederich, assignor to The Whitney Mfg. Co., Hartford, Conn. Making chains. No. 1,346,507; July 13; v. 276; p. 294.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Threading-machine. No. 1,347,788; July 27; v. 276; p. 664.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Lead-varying mechanism. No. 1,347,789; July 27; v. 276; p. 664.

Muller, Frederick H., Chicago, Ill. Making coffee and apparatus therefor. No. 1,345,947; July 6; v. 276; p. 122.

Müller, Henry, Waterbury, Conn. Tap-guide. No. 1,346,235; July 13; v. 276; p. 240.

Müller, Henry, Waterbury, Conn. Joiner's clamp. No. 1,346,236; July 13; v. 276; p. 240.

Muller, Max, New York, N. Y. Hair fringe. No. 1,346,718; July 13; v. 276; p. 336.

Mullin, Lenora E., Oak Park, Ill. Foundation-girdle. No. 1,345,800; July 6; v. 276; p. 93.

Mullin, William A. (See Creason, Frank, assignor.)

Mullins, Thomas L., Aubrey, Tex. Dipping-vat. No. 1,345,801; July 6; v. 276; p. 93.

Mulvany, Alva B., assignor of one-half to L. J. Husted, Kansas City, Mo. Splint apparatus. No. 1,347,396; July 20; v. 276; p. 529.

Munschauer, Frederick E., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Gage for sheet-metal shears, &c. No. 1,345,802; July 6; v. 276; p. 93.

Munson, Sweney, Fowler, Colo. Bolt-lock. No. 1,346,907; July 20; v. 276; p. 433.

Munter, Charles, New York, N. Y. Maternity-corset. No. 1,345,620; July 6; v. 276; p. 57.

Munter, Charles, New York, N. Y. Hook or stud. No. 1,345,621; July 6; v. 276; p. 57.

Muntz, William E., London, England. Deflecting spigot-tap. No. 1,345,803; July 6; v. 276; p. 93.

Murdock, Sidney A. (See Kellum, O. E., and Murdock.)

Murliess, Frederic T., Jr., Hartford, Conn. Locking means for orthodontia appliances. No. 1,347,285; July 20; v. 276; p. 507.

Murphy, Charles A., Oakland, assignor of one-half to F. A. Tittemore, Richmond, Calif. Portable air-brush plant. No. 1,347,790; July 27; v. 276; p. 664.

Murphy, Daniel R., Uniontown, Pa. Valve. No. 1,346,968; July 20; v. 276; p. 445.

Murphy, Harold T., Springfield, Mass. Freight-car. No. 1,347,174; Jan 20; v. 276; p. 484.

Murphy, Mary C., Haverhill, Mass. Garment and cutting same. No. 1,347,050; July 20; v. 276; p. 461.

Murphy, Morton, Marion, Ind. Base-plate device for electric fireless cookers. No. 1,346,666; July 13; v. 276; p. 326.

Murphy, Thomas, New York, N. Y. Padlock-seal holder. No. 1,346,414; July 13; v. 276; p. 276.

Murphy, Walter P. (See Sisson, Vinton E., assignor.)

Murphy, Walter P., Chicago, Ill. Railway-car underframe. No. 1,347,963; July 27; v. 276; p. 698.

Murphy, Walter P., New York, N. Y. Railway-car underframe. No. 347,964; July 27; v. 276; p. 698.

Murray, Angus R. (See Murray, Angus and A. R.)

Murray, Angus and A. R., Glasgow, Scotland. Packing device for pistons, rams, rods, and the like. No. 1,347,351; July 20; v. 276; p. 520.

Murray Company, The. (See Henry, Nelson B., assignor.)

Murray, George C., assignor to Keyoke Railway Equipment Company, Chicago, Ill. Draft-rigging attachment. No. 1,348,141; July [illegible]; v. 276; p. 734.

Murray, John T., Danielsville, Ga. Piston-ring. No. 1,346,237; July 13; v. 276; p. 241.

Muth, George F., assignor to Newton Machine Tool Works, Incorporated, Philadelphia, Pa. Air-valve. No. 1,348,123; July 27; v. 276; p. 730.

Myers, Louis, Detroit, Mich. Bottle-cap remover. No. 1,345,948; July 6; v. 276; p. 123.

Myers, Louis, Detroit, Mich. Tray. No. 1,345,949; July 6; v. 276; p. 123.

Myers, William M. (See Sillett, H. C., and Cowan, assignors.)

Nabors, George P., Argenta, Ark. Combined grinder and gummer machine. No. 1,347,965; July 27; v. 276; p. 698.

Nack, Peter R., St. Louis, Mo. Caster. No. 1,345,622; July 6; v. 276; p. 57.

Nafziger, Arthur B., Odessa, Wash. Combination drinking-fountain and faucet. No. 1,346,047; July 6; v. 276; p. 142.

Nagel, Henry W., Chicago, Ill., assignor of one-half to A. C. Ronda. Sand-drying plant. No. 1,346,238; July 13; v. 276; p. 241.

Nalle, Charles R., Fort Worth, Tex. Hairpin. No. 1,347,707; July 27; v. 276; p. 647.

Napier, George R., Cleveland, Ohio. Meat-chopping machine. No. 1,346,096; July 6; v. 276; p. 152.

Nash, Robert J., and G. H. Alexander, assignors to The A-N Company Limited, Birmingham, England. Fluid-pressure-measuring instrument. No. 1,345,870; July 6; v. 276; p. 106.

Nasmith, John W., Heaton Mersey, England. Stitching-machine. No. 1,346,415; July 13; v. 276; p. 276.

National Beet Harvester Company, The. (See Lewis, W. K., and Blevins, assignors.)

National Biscuit Company. (See Davidson, Frank B., assignor.)

National Carbon Company. (See Hinckley, Arthur T., assignor.)

National Electrical Supply Company. (See Johnson, Albert H. assignor.)

National Metal Edge Box Company. (See Coons, Henry R., assignor.)

National Metal Edge Box Company. (See Walz, C. F., and Morris, assignor.)

National Pneumatic Company. (See Rowntree, Harold, assignor.)

National Seal Company. (See Lee, Nixon, assignor.)

National Supply Company, The. (See Wright, Clyde S., assignor.)

Nauth, Walter W., Winona, Minn. Tonsillotome. No. 1,347,651; July 27; v. 276; p. 636.

Navarro, M., Ignacio, Caracas, Venezuela. Dental-crown-making machine. No. 1,346,719; July 13; v. 276; p. 336.

Nazzareno, Eusebi, Telluride, Colo. Torpedo-defense. No. 1,345,623; July 6; v. 276; p. 58.

Neale, William M., Greensboro, N. C. Shade-fixture. No. 1,347,966; July 27; v. 276; p. 699.

Needham, Charles E. (See Gibson, W. A., and Needham.)

Needham, Joseph, New York, N. Y. Hydrocarbon-burner. No. 1,346,134; July 13; v. 276; p. 221.

Neller, Albert H. (See Hassler, P. M., and Neller.)

Nelson, John H., New Castle, Pa. Clothes-hanger cabinet. No. 1,345,624; July 6; v. 276; p. 58.

Ness, William, Carrsville, Wis. Folding box. No. 1,346,839; July 20; v. 276; p. 419.

Neuland, Alfons H., San Francisco, Calif. Dynamo-electric machine. No. 1,348,037; July 27; v. 276; p. 713.

Neumeyer, Horace F., Macungie, Pa. Sprayer for plants. No. 1,348,038; July 27; v. 276; p. 714.

Neuteboom, Boudewijn B., Detroit, Mich., assignor to The Militor Corporation, New York, N. Y. Tank suspension for motor-vehicles. No. 1,347,051; July 20; v. 276; p. 461.

New England Westinghouse Company. (See Pittman, Ernest W., assignor.)

New Jersey Optical Co. (See Durgin, Edgar R., assignor.)

New Jersey Patent Company. (See Aylsworth, J. W., and Aiken, assignors.)

New Jersey Patent Co. (See Mallette, George T., assignor.)

New York Couch Bed Company. (See Slabower, G. F., and Pittoni, assignors.)

Newhouse, Frank, Denver, Colo. Advertising-frame. No. 1,346,969; July 20; v. 276; p. 445.

Newman, George R. J., Cherrydale, Va. Animal-cage. No. 1,347,397; July 20; v. 276; p. 529.

Newman, William J., Chicago, Ill. Bucket-latch for shovels. No. 1,347,967; July 27; v. 276; p. 699.

Newton, Albert S., Providence R. I. Waste-trap. No. 1,347,550; July 27; v. 276; p. 616.

Newton, Albert S., Providence, R. I. Waste-trap. No. 1,347,551; July 27; v. 276; p. 616.

Newton, Charles H., Plainville, Conn. Valve-spring compressor. No. 1,346,416; July 13; v. 276; p. 276.

Newton Machine Tool Works. (See Muth, George F., assignor.)

Newton, Richard T., New York, N. Y. Bracket. No. 1,346,648; July 6; v. 276; p. 143.

Newton, Richard T., New York, N. Y. Bumper. No. 1,346,667; July 13; v. 276; p. 326.

Newton, Richard T., New York, N. Y. Bumper. No. 1,346,668; July 13; v. 276; p. 326.

Newton, William J., Lynbrook, assignor, by mesne assignments, to J. G. Livingston, Woodmere, N. Y. Switch or receptacle box. No. 1,345,502; July 6; v. 276; p. 34.

Newton, William J., Lynbrook, assignor, by mesne assignments, to J. G. Livingston, Woodmere, N. Y. Switch or receptacle box. No. 1,345,503; July 6; v. 276; p. 35.

Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Electric switch. No. 1,346,553; July 13; v. 276; p. 304.

Ney, V. L., Hay Tool Company, The. (See Nunamaker, Henry S., assignor.)

Niagara Machine & Tool Works. (See Munschauer, Frederick E., assignor.)

Niceley, Bayard B., Luttrell, Tenn. Harrow-truck. No. 1,348,039; July 27; v. 276; p. 714.

Nicholls, Albert E., Wilson Creek, Wash. Oil-feeder. No. 1,346,849; July 20; v. 276; p. 419.

Nichols, Samuel R., Madison, Wis. Animal-tag. No. 1,347,868; July 27; v. 276; p. 680.

Nichols, Samuel R., Shelton, Nebr. Riveting-tool. No. 1,348,040; July 27; v. 276; p. 714.

Nicholson, Fred C., Chattanooga, Tenn., assignor to Scott and Williams, Incorporated, Boston, Mass. Yarn-feeding means for knitting-machines. No. 1,346,049; July 6; v. 276; p. 143.

Nicholson, John S. M., Durham, England. Gage for bevels, miters, and the like. No. 1,346,050; July 6; v. 276; p. 143.

Nighbor, Nellie. (See Wietecha, Joseph, assignor.)

Niles-Bement-Pond Company. (See Greenleaf, George E., assignor.)

Niles-Bement-Pond Company. (See Pyle, Lewis M., assignor.)

Niles-Bement-Pond Company. (See Southwick, Frank, assignor.)

Nobles, Blount T., Winterville, N. C. Fertilizer-distributer. No. 1,345,390; July 6; v. 276; p. 13.

Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Socket for caster. No. 1,346,239; July 13; v. 276; p. 241.

Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Caster. No. 1,346,240; July 13; v. 276; p. 241.

Nordenberg, Sigfred and S. Donner, Jennings, Mich. Sugar-beet blocker. No. 1,346,332; July 13; v. 276; p. 261.

Nordiska Kullagar Aktiebolaget. (See Lindman, Konrad W., assignor.)

Norman, Edward R., Chicago, Ill. Packing-ring. No. 1,345,804; July 6; v. 276; p. 94.

Norris, John, and J. I. Pearsall, Mason City, Iowa. Shingle-rebaling machine. No. 1,346,241; July 13; v. 276; p. 241.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Bergve, Einar, assignor.)

Norton Company. (See Purdy, R. C., and Beecher, assignors.)

Norton, Lewis C., Chicago, Ill. Door-closer. No. 1,345,504; July 6; v. 276; p. 35.

Nottebohm, Edward, Manila, Philippine Islands. Building construction. No. 1,345,871; July 6; v. 276; p. 106.

Nunamaker, Henry S., assignor to The V. L. Ney Hay Tool Company, Canton, Ohio. Hay-carrier. No. 1,346,242; July 13; v. 276; p. 242.

Nunamaker, Henry S., assignor to The V. L. Ney Hay Tool Company, Canton, Ohio. Hay-carrier. No. 1,346,243; July 13; v. 276; p. 242.

Nyhus, Adolph, La Crosse, Wis. Cotter-pin extractor. No. 1,347,287; July 20; v. 276; p. 507.

O. K. Giant Battery Co. (See Rabe, Paul B., assignor.)

O'Brien, Edmund J. (See Justice, H. H., and O'Brien.)

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Insulation for refrigerator-cars and the like. No. 1,345,391; July 6; v. 276; p. 13.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Refrigerator-car door. No. 1,345,392; July 6; v. 276; p. 13.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism No. 1,345,393; July 6; v. 276; p. 13.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Flexible coupling for shafting. No. 1,345,394; July 6; v. 276; p. 13.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Gravity self-centering roller-bearing. No. 1,345,805; July 6; v. 276; p. 94.

O'Dole, George W., Havana, Ill. Spiral-slide amusement device. No. 1,347,968; July 27; v. 276; p. 699.

O'Donnell, John J., Middletown, Conn. Bake-pan. No. 1,345,625; July 6; v. 276; p. 58.

Oertli, Henri, Dale, Tex. Knife. No. 1,346,669; July 13; v. 276; p. 326.

Ofeldt, Ernest T., assignor of one-half to R. A. Chesebrough, Spring Lake, N. J. Automatic gas-controller. No. 1,346,051; July 6; v. 276; p. 143.

Off, Edward P., Philadelphia, Pa., assignor to The Dentists' Supply Company, New York, N. Y. Artificial tooth and making same. No. 1,348,041; July 27; v. 276; p. 714.

Ohio Blower Company, The. (See Jippson, Adolf B., assignor.)

Ohio Brass Company, The. (See Hunziker, Walter W., assignor.)

Ohio Varnish Company, The. (See Gstalder, Paul A., assignor.)

Ohmer, John F. and J. F., Jr., assignors to Ohmer Register Company, Dayton, Ohio. Ticket-issuing device. No. 1,346,970; July 20; v. 276; p. 445.

Ohmer Register Company. (See Ohmer, John F. and J. F., Jr., assignors.)

Ohnell, Ernest J. (See Olhovsky, Vladimir, assignor.)

O'Keefe, William M., Birmingham, England. Foundry molding-machine. No. 1,347,119; July 20; v. 276; p. 474.

Okun, Morris B., assignor to The Seng Company, Chicago, Ill. Bed-rail fastener. No. 1,346,908; July 20; v. 276; p. 433.

Olcott, Walter, South Manchester, Conn. Corn-pulp remover. No. 1,345,456; July 6; v. 276; p. 25.

Olesiak, Joseph. (See Wiski, Joseph, assignor.)

Olevin, Adolph, Detroit, Mich. Fruit and vegetable peeling attachment. No. 1,347,288; July 20; v. 276; p. 508.

Olhovsky, Vladimir, assignor to E. J. Ohnell, Brooklyn, N. Y. Propeller. No. 1,346,508; July 13; v. 276; p. 295.

Olhovsky, Vladimir, New York, assignor to E. J. Ohnell, Brooklyn, N. Y. Explosion gas-turbine. No. 1,346,509; July 13; v. 276; p. 295.

Ollivier, Jocelyn E., St. Gervais-les-Bains, France. Runner-carrier for motor-vehicles. No. 1,346,052; July 6; v. 276; p. 143.

Olsen, Alfred N., Rock Rapids, Iowa. Pin-setting mechanism. No. 1,347,821; July 27; v. 276; p. 670.

Olson, Emil, Rochester, N. Y. Cover for cooking vessels. No. 1,345,457; July 6; v. 276; p. 25.

Olson, Magnus. (See Alexis, H. F., and Olson.)

Olson, Swan, Rockford, Ill. Guard-cage. No. 1,347,652; July 27; v. 276; p. 636.

Omo Mfg. Co., The. (See Burr, H. M., and Ingraham, assignors.)

O'Neil, Rodolph S., London, England. Recording apparatus. No. 1,345,626; July 6; v. 276; p. 58.

O'Neill, Bryan J., Peoria, Ill. Car-brake. No. 1,346,971; July 20; v. 276; p. 446.

Onufryk, Andrew, Rochester, N. Y. Dining-cutlery holder. No. 1,346,909; July 20; v. 276; p. 433.

Ornston, Sidney J., New York, N. Y. Strap-seal. No. 1,345,806; July 6; v. 276; p. 94.

O'Rourke, Frank J., New York, N. Y. Douche-can. No. 1,347,398; July 20; v. 276; p. 529.

Orr, John L. (See Lyon, Harry A., assignor.)

Orr, William V., Cleveland, Ohio. Suction-sweeper. No. 1,346,972; July 20; v. 276; p. 446.

Orzel, Paul, New York, N. Y. Wrist or hand blotter. No. 1,345,872; July 6; v. 276; p. 107.

Osborn, Warren M., assignor to Chicago Malleable Castings Company, Chicago, Ill. Rail-anchor tie-plate. No. 1,347,969; July 27; v. 276; p. 699.

Osborne Company, The. (See Weber, John B., assignor.)

Osborne, Raymond G., Los Angeles, Calif. Bituminous composition. No. 1,347,869; July 27; v. 276; p. 680.

Osbourn, Millard P., Philadelphia, Pa. Fluidal apparatus. No. 1,346,910; July 20; v. 276; p. 433.

Osmundsen, Conrad B., Chicago, Ill. Towing-cable. No. 1,345,873; July 6; v. 276; p. 107.

Ost, Frederick A., Minneapolis, Minn. Carbureter. No. 1,347,052; July 20; v. 276; p. 462.

Ouellette, Jean B., New Bedford, Mass. Loom attachment. No. 1,347,399; July 20; v. 276; p. 529.

Outlook Company, The. (See Beitman, Albert B., assignor.)

Ovenshire, Charles E., assignor to Minneapolis Knitting Works, Minneapolis, Minn. Child's undergarment. No. 1,347,400; July 20; v. 276; p. 529.

Overbury, Frederick C., Hillsdale, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Roof-covering. No. 1,345,627; July 6; v. 276; p. 58.

Overstreet, Frank A., Fort Sumner, N. Mex. Windmill-operated generator. No. 1,347,970; July 27; v. 276; p. 699.

Owen, Albert J., et al. (See Crick, Arthur, assignor.)

Owen, Ole A., New York, N. Y. Motion-picture film. No. 1,347,053; July 20; v. 276; p. 462.

Owens, Marshall M. (See Shearer, Edward J., and Owens.)

Owens, Michael J., assignor to Libbey-Owens Sheet Glass Company, Toledo, Ohio. Making sheet-glass. No. 1,345,628; July 6; v. 276; p. 59.

Owens, Michael J., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Means for making sheet-glass. No. 1,345,629; July 6; v. 276; p. 59.

Pabich, John, Mount Carmel, Pa. Ship-protector. No. 1,347,120; July 20; v. 276; p. 474.

Packard Motor Car Company. (See Church, Harold D., assignor.)

Packard Motor Car Company. (See Gabelman, Charles, assignor.)

Packard Motor Car Company. (See McCain, George L., assignor.)

Packard Motor Car Company. (See Vincent, Jesse G., assignor.)

Packer, John H., Liberty, Mo. Oil-filter. No. 1,346,244; July 13; v. 276; p. 242.

Packheiser, Joseph A., Picher, Okla. Elevator-belt punch. No. 1,345,395; July 6; v. 276; p. 13.

Padden, Patrick W., Maumee, Ohio. Swing. No. 1,346,973; July 20; v. 276; p. 446.

Padden, Robert W., Kansas City, Mo. Shoe-heel. No. 1,346,841; July 20; v. 276; p. 419.

Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Panic-bolt mechanism. No. 1,346,670; July 13; v. 276; p. 327.

Paige, Arthur E., Philadelphia, Pa. Mechanism for making bifocal lenses. No. 1,347,653; July 27; v. 276; p. 636.

Palmer, W. F., *et al.* (See Moore, William E., assignor.)

Palmer, William J., Northwilkesboro, N. C. Bearing. No. 1,348,042; July 27; v. 276; p. 714.

Palmgren, Nils A., Gottenborg, Sweden, assignor to S K F Administrative Company, Inc., New York, N. Y. Combined radial and thrust ball-bearing. No. 1,346,417; June 13; v. 276; p. 276.

Palosky, Frederick C., assignor of one-half to S. Zimmermann, Pontiac, Mich. Chuck. No. 1,346,245; July 13; v. 276; p. 242.

Panasevitch, John S. E., Northampton, Mass. Gas heater and cooker. No. 1,345,807; July 6; v. 276; p. 94.

Papec Machine Company. (See Bullock, F. J., and Preston, assignors.)

Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Device for clamping fluid-heaters with supply members. No. 1,345,396; July 6; v. 276; p. 14.

Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket switch. No. 1,346,418; July 13; v. 276; p. 277.

Paramount Rubber Consolidated, Inc. (See Roberts, Fred T., assignor.)

Parent, Arthur, Millers Falls, Mass. Button-clipper. No. 1,347,289; July 20; v. 276; p. 508.

Parker, Geo. S., *et al.* (See Moore, William E., assignor.)

Parker, John W. (See Humason, Granville A., assignor.)

Parker, Riley H. (See Tzibides, J. N., and Parker.)

Parkinson, Tom, Dunston-on-Tyne, England. Broken-granular-material and grain purifying machine. No. 1,348,043; July 27; v. 276; p. 715.

Parks, Dennis. (See Mitchell, J. E., and Parks.)

Parmelee, Olin E. (See Johnson, D. E., and Parmelee.)

Parnall, Archie E., assignor to F. W. Williams, Chicago, Ill. Brake for phonographs. No. 1,345,397; July 6; v. 276; p. 14.

Parnall, Archie E., assignor to F. W. Williams, Chicago, Ill. Automatic stop for talking-machines. No. 1,345,398; July 6; v. 276; p. 14.

Parramore, Reddin W., Somerville, N. J. Composition for artificially inducing mold action in soils. No. 1,347,401; July 20; v. 276; p. 530.

Parrish, Alan J., Paris, Ill. Making monolithic pavements. No. 1,347,654; July 27; v. 276; p. 636.

Patent File and Tool Company, The. (See Schneider, Charles O., assignor.)

Patrick, Lido J., San Diego, Calif. Machine-gun. No. 1,347,753; July 27; v. 276; p. 657.

Pattay, Marc-Antoine and E. Jaquemot, assignors to C. von der Weid, Geneva, Switzerland. Electric incandescent lighting apparatus. No. 1,346,661; July 13; v. 276; p. 327.

Patton, Alexander M., assignor to Charles Hurst, Limited, Belfast, Ireland. Internal-combustion engine. No. 1,346,672; July 13; v. 276; p. 327.

Paulson, Henry, Chicago, Ill. Watch-repair tag. No. 1,345,874; July 6; v. 276; p. 107.

Paxson, John W., Philadelphia, Pa. Automobile-jack. No. 1,347,228; July 20; v. 276; p. 495.

Paxton, Benjamin F., St. Paul, Minn. Stump-burner. No. 1,347,054; July 20; v. 276; p. 462.

Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,347,754; July 27; v. 276; p. 658.

Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Cartridge-magazine. No. 1,347,755; July 27; v. 276; p. 658.

Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,347,756; July 27; v. 276; p. 658.

Pearsall, Jesse I. (See Norris, J., and Pearsall.)

Peck, Charles L., assignor to The Dorr Company, New York, N. Y. Recovery of proteids from waste liquors of the hide-treating art. No. 1,347,822; July 27; v. 276; p. 670.

Peck, Charles L., assignor to The Dorr Company, New York, N. Y. Recovery of proteids from waste liquors of the hide-treating art. No. 1,347,823; July 27; v. 276; p. 670.

Peck, Frank A., and J. A. E. Moore, Cleveland, Ohio. Draw-bar. No. 1,345,399; July 6; v. 276; p. 14.

Peden, Albert, Johnstown, Pa. Toy. No. 1,346,053; July 6; v. 276; p. 144.

Peirce, John R., New York, N. Y. Recording mechanism. (Reissue.) No. 14,915; July 13; v. 276; p. 355.

Pemberton-Billing, Noel, Hertford, England. Domestic heating and cooking apparatus. No. 1,345,400; July 6; v. 276; p. 15.

Penfield, Raymond C. (See Brown, Davis, assignor.)

Pennington, Emory G., Miami, Tex. No. 1,346,764; July 13; v. 276; p. 346.

Pennington, Harry R., Kansas City, Mo., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Riveting. No. 1,346,054; July 6; v. 276; p. 144.

Pentland, Robert, Jacksonville, Fla. Perpetual calendar. No. 1,348,044; July 27; v. 276; p. 715.

Peralta, Alonso D., Guatemala City, Guatemala. Hose-supporter. No. 1,348,045; July 27; v. 276; p. 715.

Perfect, Charles A., Sunbury, Ohio. Combination loader and unloader. No. 1,346,381; July 13; v. 276; p. 269.

Perkins Electric Switch Manufacturing Company, The. (See Thomas, George B., assignor.)

Perkins, George G., Lynn, Mass. Lacing-tip-forming machine. No. 1,347,655; July 27; v. 276; p. 637.

Perl, Elmer G., Minneapolis, Minn. Tree-protector band. No. 1,345,690; July 6; v. 276; p. 71.

Perrier, Hector J., Edmonton, Alberta, Canada. Camera. No. 1,346,461; July 13; v. 276; p. 286.

Perrin Shocker Manufacturing Company. (See Perrin, William H., assignor.)

Perrin, William H., assignor to Perrin Shocker Manufacturing Company, Limited, New Liskeard, Ontario, Canada. Sheaf-shocker. No. 1,346,974; July 20; v. 276; p. 446.

Perris, Isidor, Cleveland, Ohio. Filler for egg-crates and the like. No. 1,347,909; July 27; v. 276; p. 688.

Perrone, Pio, Rome, Italy, assignor to Società Anonima Italiana Gio, Ansaldo & C., Rome and Genoa, Italy. Means of defense for ships against the attacks of submarines. No. 1,346,720; July 13; v. 276; p. 337.

Perry, Frederick H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine. No. 1,347,656; July 27; v. 276; p. 637.

Persons, Charles A., Worcester, Mass. Handle-grip. No. 1,345,505; July 6; v. 276; p. 35.

Peterka, John. (See Green, N. F., and Peterka.)

Peters, Emil, and A. Lambert, Chicago, Ill. Legging. No. 1,347,657; July 27; v. 276; p. 637.

Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer for use with rotary converters. No. 1,347,910; July 27; v. 276; p. 688.

Peters, Orland W., Los Angeles, Calif. Shoe-protector. No. 1,345,875; July 6; v. 276; p. 107.

Petersen, Christian M. and O. J. Boden, San Francisco, Calif. Electrical apparatus. No. 1,346,606; July 13; v. 276; p. 314.

Peterson, Andrew R., Fargo, N. D. Shock-former. No. 1,348,046; July 27; v. 276; p. 715.

Peterson, Carl E., Montclair, assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Button-loop. No. 1,346,911; July 20; v. 276; p. 433.

Peterson, Claus E., Worcester, Mass. Pneumatic piano-player. No. 1,346,246; July 13; v. 276; p. 242.

Peterson, Earl L., Corona, assignor to United Concrete Pipe Company, New York, N. Y. Reinforced concrete construction. No. 1,346,673; July 13; v. 276; p. 327.

Peterson, John, *et al.* (See Johnson, Albert S., assignor.)

Peterson, John M., and J. Meredith, Newcastle-upon-Tyne, England. Door-handle-locking device. No. 1,348,047; July 27; v. 276; p. 716.

Peterson, Peter R., Salt Lake City, Utah. Gas-engine. No. 1,347,055; July 20; v. 276; p. 462.

Petinot, Napoleon, New York, N. Y. Producing articles of iron silicid. No. 1,346,333; July 13; v. 276; p. 261.

Petlak, Aleck. (See Petriw, A., and Petlak.)

Petriw, Aleck, and A. Petlak, Goodeve, Saskatchewan, Canada. Nut-lock. No. 1,346,975; July 20; v. 276; p. 446.

Petrucci, Paolo A., Pittsburgh, Pa. Water-heater for boilers. No. 1,346,334; July 13; v. 276; p. 261.

Petry, Clayton H. (See Lorenson, Lorens C., assignor.)

Pettengill, George M., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Heel-nailing machine. No. 1,345,876; July 6; v. 276; p. 107.

Pfanstiehl Company, Incorporated. (See Dady, Arthur O., assignor.)

Pfeffer, Rose, San Jose, Calif. Cooking utensil. No. 1,348,048; July 27; v. 276; p. 716.

Pfanze, Charles F., St. Louis, Mo. Transferring device. No. 1,345,950; July 6; v. 276; p. 123.

Phelps, Joseph, Belleville, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,346,607; July 13; v. 276; p. 314.

Phelps Manufacturing Company. (See Phelps, Morton F., assignor.)

Phelps, Morton F., assignor to Phelps Manufacturing Company, Limited, Little Rock, Ark. Self-alining fan-wheel. No. 1,345,951; July 6; v. 276; p. 123.

Phelps, Morton F., assignor to Phelps Manufacturing Company, Limited, Little Rock, Ark. Self-alining fan-wheel. No. 1,345,952; July 6; v. 276; p. 124.

Phillips, Cecil O., New York, N. Y. Treatment of cotton-seed meats. No. 1,347,870; July 27; v. 276; p. 680.

Phoenix Knitting Works. (See Schwab, Edward C., assignor.)

Pickop, George B., New Haven, assignor to The Malleable Iron Fittings Company, Branford, Conn. Grease-cup. No. 1,345,953; July 6; v. 276; p. 124.

Pickup, George E., assignor of one-half to F. Harlow and J. Steinbaugh, Newark, Ohio. Fish-bait. No. 1,346,674; July 13; v. 276; p. 327.

Pierce, James F., Glynrich, assignor to American Vulcanized Fibre Co., Wilmington, Del. Device for cutting tubes. No. 1,345,458; July 6; v. 276; p. 25.

Pierce, James F., Glynrich, assignor to American Vulcanized Fibre Co., Wilmington, Del. Apparatus for forming tubes. No. 1,345,459; July 6; v. 276; p. 26.

Pierray, Walter, assignor to Stettiner Chamotte-Fabrik Actiengesellschaft vormals Didier, Stettin, Germany. Furnace for burning refuse. No. 1,346,055; July 6; v. 276; p. 144.

Piersen, Edwin H., assignor to The Piersen Telegraph Transmitter Company, Topeka, Kans. Telegraph transmitter. (Reissue.) No. 14,910; July 6; v. 276; p. 154.

Piersen, Edwin H., assignor to The Piersen Telegraph Transmitter Company, Topeka, Kans. Telegraph-transmitter. (Reissue.) No. 14,921; July 20; v. 276; p. 547.

Piersen Telegraph Transmitter Company. (See Piersen, Edwin H., assignor.) (Reissue.)

Pietrobono, Philip, East Hartford, Conn. Rocking-chair attachment. No. 1,346,675; July 13; v. 276; p. 327.

Pitman, Frederick, East Kew, Victoria, Australia. Rubber stamp. No. 1,346,912; July 20; v. 276; p. 434.

Pifer, George N., assignor to The Postergraph Company, Cleveland, Ohio. Photographic apparatus. No. 1,347,824; July 27; v. 276; p. 671.

Piggins, Charles R. and F. H., Racine, Wis. Steering-post lock. No. 1,347,871; July 27; v. 276; p. 680.

Piggins, Frederick H. (See Piggins, C. R. and F. H.)

Pihlfeldt, Thomas G., and F. Hartung, Chicago, Ill. Oil-cup. No. 1,347,825; July 27; v. 276; p. 671.

Pihlfeldt, Thomas, and F. C. Hartung, Chicago, Ill. Oil-cup. No. 1,347,826; July 27; v. 276; p. 671.

Pike, Percy M., *et al.* (See Holland, Walter J., assignor.)

Pilblad, Eric J., and Arthur Tomlinson, assignors to Imperial Typewriting Company Limited, Leicester, England. Tabulator mechanism for typewriting-machines. No. 1,347,757; July 27; v. 276; p. 658.

Pisani, William H., assignor to M. J. Brandenstein & Co., San Francisco, Calif. Packing coffee. No. 1,347,791; July 27; v. 276; p. 665.

Pitman, Henry L., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,345,460; July 6; v. 276; p. 26.

Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,345,877; July 6; v. 276; p. 107.

Pitney, Arthur H., Wilmette, Ill., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn. Mail-marking machine and postage-meter. (Reissue.) No. 14,916; July 13; v. 276; p. 355.

Pitney-Bowes Postage Meter Company. (See Pitney, Arthur H., assignor.) (Reissue.)

Pittman, Ernest W., Flushing, N. Y., assignor to New England Westinghouse Company. Method of and machine for hardening and straightening rods. No. 1,346,419; July 13; v. 276; p. 277.

Pittoni, Louis E. (See Sisbower, G. F., and Pittoni.)

Pittsburgh Gage & Supply Company. (See Freed, G. F., and Spencer, assignors.)

Place, Josiah W., assignor to United States Gauge Co., New York, N. Y. Pressure-gage. No. 1,345,630; July 6; v. 276; p. 59.

Place, Roland P. (See Hoy, John E., assignor.)

Place, Roland P., assignor to The H-P Company, Detroit, Mich. Grinding-wheel dresser. No. 1,347,519; July 27; v. 276; p. 609.

Plaisted, Harold M., assignor of forty-nine one-hundredths to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Rotary hammer. (Reissue.) No. 14,926; July 27; v. 276; p. 735.

Planetz, Henry. (See Viebrock, Carl H., and H. W., assignors.)

Plastoid Products, Inc. (See Routt, O. L., McConnell, and Glaze, assignors.)

Platt, John H., Los Angeles, Calif. Crate-press. No. 1,345,878; July 6; v. 276; p. 108.

Plymouth Gypsum Company. (See Armstrong, L. E., and Brockenbrough, assignors.)

Pneumatic Process Flotation Company. (See Gahl, Rudolf, assignor.)

Pointon, John E., Peterbrough, England. Dough-molding machine. No. 1,345,631; July 6; v. 276; p. 59.

Polinkowsky, Lipa, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system; No. 1,345,879; July 6; v. 276; p. 108.

Pollak, Robert R., San Francisco, Calif. Drilling and oil-well apparatus. No. 1,347,587; July 27; v. 276; p. 624.

Pollard, Edson T., Niagara Falls, N. Y., and W. N. Morley, Toronto, Canada. Flour-mill. No. 1,348,049; July 27; v. 276; p. 716.

Pomeroy Company. See Hullinger, Lynus E., assignor.)

Pomijé, Frank, New Prague, Minn. Brush-cutter and ground-evener. No. 1,346,382; July 13; v. 276; p. 270.

Pond, Martin A., Bristol, assignor to Standard Carrier Company, Southington, Conn. Cash-carrier box. No. 1,346,676; July 13; v. 276; p. 328.

Ponting, Harry W., and A. J. Watling, Junction City, Kans. Combination-lock. No. 1,347,708; July 27; v. 276; p. 647.

Pope, Edwin, Quebec, Quebec, Canada. Typewriting-machine. No. 1,347,290; July 20; v. 276; p. 508.

Pope, Joseph H., Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heels. No. 1,346,247; July 13; v. 276; p. 243.

Pope, Joseph H., Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in heel manufacture. No. 1,346,248; July 13; v. 276; p. 243.

Popken, Harry F. (See Williamson, J. E., Popken, and Vale.)

Porfyrij, Kiselycia. (See Zubryd, Anton, assignor.)

Porter, Frank S., Cushing, assignor of one-third to R. M. Porter, Pawnee, and one-third to E. F. Herrin, Cushing, Okla. Truck and brake for railway rolling-stock. No. 1,346,765; July 13; v. 276; p. 346.

Porter, Herman P., Jacksonville, Fla. Sash-lock. No. 1,346,677; July 13; v. 276; p. 328.

Porter, John G., Weaverville, Calif. Rotary engine. No. 1,347,709; July 27; v. 276; p. 648.

Porter, Rufus M., *et al.* (See Porter, Frank S., assignor.)

Porter, Willard E., Lynn, Mass., assignor to General Electric Company. Electric meter. No. 1,345,691; July 6; v. 276; p. 71.

Posson, Edward, Chicago, Ill. Car-truck. No. 1,348,124; July 27; v. 276; p. 730.

Postergraph Company, The. (See Pifer, George N., assignor.)

Potash Extraction Corporation. (See Glaeser, Walter, assignor.)

Potter, Charles H., *et al.* (See Service, William F., assignor.)

Potter, Ellis M., New York, N. Y. Sanitary telephone attachment. No. 1,347,710; July 27; v. 276; p. 648.

Potter, Isaac B. (See Waggoner, Claude M., assignor.)

Potter's Asbestos Co. (See Stafford, Arthur E., assignor.)

Poulain, Paul, Paris, France. Diamond-point cutting-tool. No. 1,346,056; July 6; v. 276; p. 144.

Powell, Alfred. (See Robson, W. H., and Powell.)

Power Specialty Company. (See Foster, Ernest H., assignor.)

Powers Accounting Machine Company. (See Bassett, William H., assignor.)

Prall, James H. (See Innes, G., and Prall.)

Pratt, Charles S., Eau Claire, Wis. Wire clothespin. No. 1,346,608; July 13; v. 276; p. 314.

Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Box-car loader. No. 1,346,678; July 13; v. 276; p. 328.

Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Wagon-loader. No. 1,346,679; July 13; v. 276; p. 328.

Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Box-car loader. No. 1,346,680; July 13; v. 276; p. 328.

Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Car-unloader. No. 1,346,681; July 13; v. 276; p. 329.

Pratt & Whitney Company. (See Hanson, Bengt, M. W., assignor.)

Pratt & Whitney Company. (See Müller, Friedrich, assignor.)

Prenn, Joseph, Boston, Mass. Mechanical bone-conductive ear. No. 1,346,721; July 13; v. 276; p. 337.

Press, John. (See Reichmann, F. J., and Press.)

Preston, Ward H. (See Bullock, F. J., and Preston.)

Price, David D., Norman, Okla. Boat-oar. No. 1,346,554; July 13; v. 276; p. 304.

Price, James W., Henryetta, assignor of one-half to H. S. Miller, Henryetta, and one-eighth to G. W. Webster and one-eighth to S. S. Webster, Tulsa, Okla. Clipper. No. 1,346,249; July 13; v. 276; p. 243.

Price, Raymond B., New York, N. Y., assignor to Rubber Refrigerating Company. Testing-machine. No. 1,347,291; July 20; v. 276; p. 508.

Priest, Henry M., R. H. Ford, A. L. Greenbaum, and C. P. Richardson, Chicago, Ill. Concrete building construction. No. 1,345,880; July 6; v. 276; p. 108.

Prince, Clarence K., Westfield, Mass. Method of and apparatus for making and handling castings. No. 1,347,552; July 27; v. 276; p. 616.

Prince, Jean A., and A. L. Gilles, Nice, France. Vehicle-tire. No. 1,346,766; July 13; v. 276; p. 243.

Pringle, William A., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Slitting mechanism. No. 1,347,872; July 27; v. 276; p. 680.

Prizma, Incorporated. (See Mason, Joseph, assignor.)

Propert, Thomas G., and W. R. Brown, assignors of one-third to A. T. Woolford, Chippendale, New South Wales, Australia. Snap-lock for doors, gates, and the like. No. 1,347,292; July 20; v. 276; p. 500.

Proudfit, William S., Grand Rapids, Mich. Filing device. No. 1,347,658; July 27; v. 276; p. 637.

Prouty, Theodore C., Hermosa Beach, Calif, assignor, by mesne assignments, to Van Sicklen Speedometer Company, Wilmington, Del. Pump for speedometers. (Reissue.) No. 14,922; July 20; v. 276; p. 547.

Providenti, Joseph G., Brooklyn, N. Y. Talking-machine cabinet. No. 1,345,692; July 6; v. 276; p. 71.

Purdy, Ross C., and M. F. Beecher, assignors to Norton Company, Worcester, Mass. Light-weight refractory brick. No. 1,345,632; July 6; v. 276; p. 59.

Puring, John, New York, N. Y. Mathematical instrument. No. 1,346,250; July 13; v. 276; p. 243.

Purnell, Walter H., and J. A. Butterworth, Loughborough, England, assignors to Herbert Morris, Limited. Portable jib-crane. No. 1,345,881; July 6; v. 276; p. 108.

Putnam, Ralph W., Waterbury, Vt. Polishing-wheel. No. 1,348,050; July 27; v. 276; p. 716.

Pye, David W., Red Bank, N. J. Composite heat-insulating sheet. No. 1,345,693; July 6; v. 276; p. 72.

Pyle, Lewis M., Bryn Mawr, Pa., assignor to Niles-Bement-Pond Co., New York, N. Y. Clutch mechanism. No. 1,345,633; July 6; v. 276; p. 59.

Quesenbery, Thomas W. (See Childress, Patrick H., assignor.)

Quick, Elroy I., *et al.* (See Erik, Emil, assignor.)

Quigley Furnace Specialties Co. (See Kimber, Harry A., assignor.)

Raab, John W., and R. Edwards, Maquoketa, Iowa. Automobile-ventilator. No. 1,346,383; July 13; v. 276; p. 270.

Rabe, Paul B., Chicago, Ill., assignor to O. K. Giant Battery Co., Gary, Ind. Battery-grid. No. 1,347,873; July 27; v. 276; p. 681.

Radell, Frederick W., Glenside, Pa. Electric storage battery. No. 1,347,588; July 27; v. 276; p. 624.

Radium Luminous Material Corporation. (See White, Charles E., assignor.)

Raico Manufacturing Co. (See Lofgren, John, assignor.)

Ralston, John, Houston, Tex. Valve-grinder. No. 1,346,420; July 13; v. 276; p. 277.

Ramén, Arthur, Helsingborg, Sweden. Movable irrigating apparatus. No. 1,346,843; July 20; v. 276; p. 419.

Ramm, George F., Del Monte, Calif. Rack. No. 1,345,954; July 6; v. 276; p. 124.

Ramos, Rafaél, and A. de Cardenas, Aguada de Pasajeros, Santa Clara, Cuba. Plowing-machine. No. 1,347,589; July 27; v. 276; p. 624.

Randall, Annie L., executrix. (See Randall, Horatio C.)

Randall, Horatio C., deceased, San Francisco, Calif.; A. L. Randall, executrix. Elevator-control system. No. 1,347,711; July 27; v. 276; p. 648.

Randolph, Oliver W., Toledo, Ohio. Grain-drier. No. 1,346,335; July 13; v. 276; p. 261.

Rankin, George L., Munhall, Pa. School-desk. No. 1,346,976; July 20; v. 276; p. 447.

Rasch, Paul, Chicago, Ill. Spraying device. No. 1,347,520; July 27; v. 276; p. 610.

Rasmussen, Alvin C. (See Insley, W. H., and Rasmussen.)

Rathbone, De Forest L., Jacksonville, Fla. Water-heater. No. 1,346,251; July 13; v. 276; p. 244.

Rathbone, De Forest L., Jacksonville, Fla. Combination closet-seat and bidet. No. 1,346,252; July 13; v. 276; p. 244.

Ratner, Aaron, New York, N. Y. Dish-rack for washing-machines. No. 1,345,401; July 6; v. 276; p. 15.

Ratti, Giuseppe. (See Gervasoni, P., and Zecchini, assignors.)

Rawson, Harry P., Minneapolis, Minn. Dental appliance. No. 1,345,549; July 6; v. 276; p. 44.

Rawson, William S., Bridgeport, Conn. Folding top for vehicles. No. 1,347,553; July 27; v. 276; p. 617.

Rawson, William S., Bridgeport, Conn. Folding top for vehicles. No. 1,347,554; July 27; v. 276; p. 617.

Ray, Harvey, Kansas City, Mo. Cooking-vessel attachment. No. 1,347,971; July 27; v. 276; p. 700.

Rayfield, Charles L., Chicago, Ill. Belt-tightener. No. 1,345,461; July 6; v. 276; p. 26.

Rayfield, George T., Chicago, Ill. Universal coupling. No. 1,346,253; July 13; v. 276; p. 244.

Raymer Manufacturing Company. (See Raymer, Oscar L., assignor.)

Raymer, Oscar L., assignor to Raymer Manufacturing Company, Limited, Toronto, Ontario, Canada. Buckle. No. 1,347,827; July 27; v. 276; p. 671.

Raymond, John, Jr., Springfield, Vt. Conveyer. No. 1,345,634; July 6; v. 276; p. 60.

Raymond, Joseph A., Chicago, Ill. Collapsible casket-carrier. No. 1,347,466; July 20; v. 276; p. 542.

Ream, John L., Axtell, Kans. Adjustable collar. No. 1,347,712; July 27; v. 276; p. 648.

Reardon, Robert E., Cherrydale, Va. Dummy cartridge. No. 1,347,659; July 27; v. 276; p. 637.

Reardon, Timothy H., North Adams, Mass. Apparatus for measuring ohmic resistance of liquids and solutions. No. 1,346,057; July 6; v. 276; p. 144.

Renvell, William, and H. Haerle, Ipswich, England. Rotary engine, compressor, and exhauster. No. 1,345,955; July 6; v. 276; p. 124.

Redcay, Paul D., Royersford, Pa. Machine for making tubular binding. No. 1,348,051; July 27; v. 276; p. 716.

Redman, Lawrence V., Evanston, A. J. Weith and F. P. Brock, assignors to Redmanol Chemical Products Company, Chicago, Ill. Producing a phenolic condensation product. No. 1,345,694; July 6; v. 276; p. 72.

Redman, Lawrence V., Evanston, A. J. Weith and F. P. Brock, assignors to Redmanol Chemical Products Company, Chicago, Ill. Preserving infusible phenolic condensation products from discoloration after preserving. No. 1,345,695; July 6; v. 276; p. 72.

Redmanol Chemical Products Company. (See Redman, L. V., Weith, and Brock, assignors.)

Reed, Charles A., Williamsport, Pa. Ornamental rope. No. 1,346,461; July 13; v. 276; p. 286.

Reed, Edward C. (See Brummett, W. S., and Reed.)

Reed, Henry J., Seattle, Wash. Garment-supporter. No. 1,347,911; July 27; v. 276; p. 688.

Reed, James D., Eagle, Mich. Timing device. No. 1,345,402; July 6; v. 276; p. 15.

Reed, Richard S., Kokomo, Ind. Vehicle-tire. No. 1,346,336; July 13; v. 276; p. 261.

Reed, Thomas H., Newark, N. J. Tone-arm for talking-machines. No. 1,346,254; July 13; v. 276; p. 244.

Reed, William C., Stockville, Nebr. Harness-buckle. No. 1,345,956; July 6; v. 276; p. 124.

Rees, Warren C., Somerville, assignor to Aseptic Service Company, Boston, Mass. Sanitary water-closet. No. 1,346,255; July 13; v. 276; p. 244.

Reese, Charles N., Wilmette, Ill. Dental attachment. No. 1,347,555; July 27; v. 276; p. 617.

Reeves, Donald H., Dayton, Ohio. Electrically-actuated pump. No. 1,346,555; July 13; v. 276; p. 304.

Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging. No. 1,346,556; July 13; v. 276; p. 304.

Reiband, John, Baltimore, Md. Pipe-coupling. No. 1,347,660; July 27; v. 276; p. 638.

Reich, Valdemar F., Pittsburgh, Pa. Hand-tool. No. 1,347,972; July 27; v. 276; p. 700.

Reichert, John, Racine, Wis. Calf and colt weaner. No. 1,346,557; July 13; v. 276; p. 305.

Reichmann, Frank J., and J. Press, Chicago, Ill.; said Press assignor to said Reichmann. Telephone instrument. No. 1,347,175; July 20; v. 276; p. 485.

Reimel, Elmer J. (See Hamilton, R., and Reimel.)

Reinhardt, Fannie D., Billings, Okla. Ice-cream freezer. No. 1,346,767; July 13; v. 276; p. 346.

Reininger, Henry, New Orleans, La. Barrel-washing machine. No. 1,347,402; July 20; v. 276; p. 530.

Reinoehl, Harry K., Defiance, Ohio. Spring-eye protector for automobiles. No. 1,346,682; July 13; v. 276; p. 329.

Reish, Clair L., Pittsburgh, Pa. Tire-clamp. No. 1,345,957; July 6; v. 276; p. 125.

Reisiger, Hugo, Rotterdam, Netherlands. Bench-screw. No. 1,345,403; July 6; v. 276; p. 15.

Rekeradres, Henry, Detroit, Mich. Speed-change indicator for vehicles. No. 1,345,635; July 6; v. 276; p. 60.

Remington, Harvey W., New York, N. Y. Core for molding hollow concrete columns. No. 1,346,844; July 20; v. 276; p. 420.

Remington Typewriter Company. (See Holden, Joseph B., assignor.)

Remington Typewriter Company. (See Phelps, Joseph, assignor.)

Remington Typewriter Company. (See Seib, George A., assignor.)

Remmen, Jorgen, assignor to George T. Ladd Company, Pittsburgh, Pa. Machine for charging shells. No. 1,346,064; July 6; v. 276; p. 145.

Remy Electric Company, The. (See Kennington, William O., assignor.)

Remy Electric Company, The. (See Rogers, Samuel, assignor.)

Rendall, George F., New York, N. Y., assignor to Carbon Products Company. Distillation-retort and separating-tank. No. 1,345,404; July 6; v. 276; p. 15.

Renner, Nick, Defiance, Ohio. Vehicle-wheel. No. 1,345,506; July 6; v. 276; p. 35.

Renois, John J., Corsicana, Tex. Surgical splint. No. 1,346,463; July 13; v. 276; p. 286.

Rentfroe, Henry T., *et al.* (See Edgar, Robert A., assignor.)

Repass, Charles L., West Pittston, assignor of one-half to H. R. Smith, Scranton, Pa. Shears. No. 1,345,882; July 6; v. 276; p. 109.

Repetto, John, Philadelphia, Pa. Fluid-cock. No. 1,346,977; July 20; v. 276; p. 447.

Replogle, Daniel B., Berkeley, Calif. Pneumatic cleaner. No. 1,345,550; July 6; v. 276; p. 44.

Reule, Charles A., Cincinnati, Ohio. Belt-buckle. No. 1,346,795; July 13; v. 276; p. 353.

Revere Rubber Company. (See Davis, Laurence R., assignor.)

Revert, Albert, Oakland, Calif. Composite railway-tie. No. 1,346,609; July 13; v. 276; p. 315.

Rex Manufacturing Company. (See Hull, Matthew R., assignor.)

Reynolds, George A., Indianapolis, Ind. Rotary gas-engine construction. No. 1,345,808; July 6; v. 276; p. 94.

Reynolds, Joseph N., Atlantic, Iowa. Hand-covering. No. 1,346,683; July 13; v. 276; p. 329.

Reynolds, R. J., Tobacco Company. (See Richter, Hans F., assignor.)

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Pawl-and-ratchet mechanism. No. 1,347,661; July 27; v. 276; p. 638.

Ricardo, Harry R., London, England. Piston for internal-combustion engines. No. 1,346,845; July 20; v. 276; p. 420.

Rice, Oscar J., Libby, Mont. Canvas-adjuster. No. 1,347,121; July 20; v. 276; p. 474.

Rich, James E., Boston, assignor to The Federal Corporation, Westfield, Mass. Spark-plug. No. 1,347,874; July 27; v. 276; p. 681.

Richard, Joseph, Montreal, Quebec, Canada. Composition paint for leather. No. 1,346,846; July 20; v. 276; p. 420.

Richards, George A., Pueblo, Colo. Charge-forming device for internal-combustion engines. No. 1,345,507; July 6; v. 276; p. 35.

Richards, Harry D., San Francisco, Calif. Cableway. No. 1,347,758; July 27; v. 276; p. 658.

Richards, John M., Beaver Falls, Pa. Milling-cutter. No. 1,345,636; July 6; v. 276; p. 60.

Richardson, Charles W., Piketon, Ohio. Rail-fastener. No. 1,345,958; July 6; v. 276; p. 125.

Richardson, Charles P. (See Priest, H. M., Ford, Greenbaum, and Richardson.)

Richardson, Earl H., Ontario, Calif., assignor to Edison Electric Appliance Company, Inc. Electric heating device. No. 1,345,696; July 6; v. 276; p. 72.

Richardson, George A., Somerset, and A. Mercier, Worthing, England; said Mercier assignor to said Richardson. Device for shearing and cutting metals. No. 1,347,912; July 27; v. 276; p. 688.

Richardson, Harmon S., Massillon, Ohio. Automobile-door latch. No. 1,347,229; July 20; v. 276; p. 495.

Richardson, Henry, Passaic, N. J. Automatic compensator for weighing-machines. No. 1,346,684; July 13; v. 276; p. 329.

Richman, Nathan O., Cleveland, Ohio. Spool-rack. No. 1,345,883; July 6; v. 276; p. 109.

Richter, Hans F., assignor, by mesne assignments, to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Tobacco-stemming machine. No. 1,347,403; July 20; v. 276; p. 530.

Richter, Hans F., assignor, by mesne assignments, to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Tobacco-stemming machine. No. 1,347,404; July 20; v. 276; p. 530.

Rickert-Schafer Company. (See Boehm, Rudolph A., assignor.)

Rickert-Schafer Company. (See Shafer, Arthur A., assignor.)

Ricketts, James R., Kansas City, Mo. Dust-arrester for air-compressors. No. 1,345,405; July 6; v. 276; p. 16.

Ricks, Fred, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,346,256; July 13; v. 276; p. 245.

Ricks, Tillman D., Lyons, Ga. Hog-yoke. No. 1,347,352; July 20; v. 276; p. 520.

Rider, Thomas B., assignor of one-half to A. Danziger, Los Angeles, Calif. Contact. No. 1,348,052; July 27; v. 276; p. 717.

Riederer, Herman S. (See Ellis, C., and Riederer.)

Rieschick, Herman F., Kansas City, Mo. Gun. No. 1,345,551; July 6; v. 276; p. 44.

Rigal, Waldo A., Corning, N. Y. Combination-lock. No. 1,345,552; July 6; v. 276; p. 45.

Rightnour, George E., Kearney, Pa. Joint and chair for railway-rails. No. 1,346,384; July 13; v. 276; p. 270.

Riker, Andrew L., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Convertible railway and roadway vehicle. No. 1,347,828; July 27; v. 276; p. 671.

Riley, J. N., *et al.* (See Tullis, John T., assignor.)

Riley, Joshua J., and E. E. Blackstone, Pontiac, Mich. Tool-holder. No. 1,346,978; July 20; v. 276; p. 447.

Riley, Phillip L., Blairsville, Pa. Window-seat. No. 1,347,122; July 20; v. 276; p. 474.

Rimailho, Emile, assignor to Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt, Paris, France. Hydraulic-joint cartridge. No. 1,346,722; July 13; v. 276; p. 337.

Rimailho, Emile, assignor to Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt, Paris, France. Road-train. No. 1,346,723; July 13; v. 276; p. 337.

Rimmer, Mark C., London, England. Urethroscope and like surgical instrument. No. 1,345,406; July 6; v. 276; p. 16.

Rink, Harold J., Chicago, Ill. Apparatus for rectifying spinal deformities. No. 1,347,913; July 27; v. 276; p. 689.

Rinman, Erik L., Djursholm, Sweden. Dry distillation. No. 1,347,713; July 27; v. 276; p. 649.

Ripley, Ernest. (See Skinner, Fred R., assignor.)

Rinsch, Charles W., and J. C. Dawley, assignors to The Joyce-Cridland Company, Dayton, Ohio. Flexible-base jack. No. 1,346,847; July 20; v. 276; p. 420.

Ritchie, Allen A., Houston, Tex. Automobile-lock. No. 1,346,135; July 13; v. 276; p. 221.

Ritchie, Samuel, assignor of one-third to S. L. Chicker, Ladysmith, Wis. Portable automatic door-lock and burglar-alarm. No. 1,346,768; July 13; v. 276; p. 346.

Rives, Hal D., *et al.* (See Lewis, Jesse D., assignor.)

Rix, Edward A., Oakland, Calif. Unloader for compressors or the like. No. 1,345,884; July 6; v. 276; p. 109.

Roach, Joseph H., Philadelphia, Pa. Furnace. No. 1,346,464; July 13; v. 276; p. 286.

Roach, Joseph H., Brookline, Pa. Underfeed-stoker furnace. No. 1,346,465; July 13; v. 276; p. 286.

Roark, Rurie C., Chicago, Ill., assignor to U. S. Sanitary Products Corporation, Deodorizing material. No. 1,346,337; July 13; v. 276; p. 262.

Robbins, Louis S., and W. E. Gilmore, Klamath Falls, Oreg. Road-shoe for automobiles. No. 1,347,405; July 20; v. 276; p. 531.

Robergel, Gabriel, Montreuil-sous-Bois, France. Manufacture of bolts. No. 1,346,058; July 6; v. 276; p. 144.

Roberts, Fred T., Cleveland Heights, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Making hollow rubber articles. No. 1,346,848; July 20; v. 276; p. 420.

Roberts, Henry P., assignor to Rodik Company, Boston, Mass. Stopper for bottles and similar containers. No. 1,346,510; July 13; v. 276; p. 295.

Roberts, Richard H., Henderson, Auckland, assignor to P. N. Kingswell, trustee, One Tree Hill, Auckland, New Zealand. Collapsible box, case, or crate. No. 1,347,230; July 20; v. 276; p. 495.

Roberts, William E., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y. Valve for coke-ovens and the like. No. 1,347,056; July 20; v. 276; p. 462.

Robertson, Elmer D. B., *et al.* (See Umphrey, Henry, assignor.)

Robertson, G. D., *et al.* (See Baker, Elbridge, assignor.)

Robertson, Maxwell W., Belle Harbor, N. Y., assignor to G. P. Schmidt. Electrical connector. No. 1,347,590; July 27; v. 276; p. 624.

Robertson, Thomas L., Danville, Va. Inkstand. No. 1,345,959; July 6; v. 276; p. 125.

Robertson, Thomas L., Spray, N. C. Auto-bumper. No. 1,348,053; July 27; v. 276; p. 717.

Robinson, Benjamin F., Tulsa, Okla. Sewing-machine attachment. No. 1,347,406; July 20; v. 276; p. 531.

Robinson, Burton J., Stanley, Wis. Stump-puller. No. 1,347,702; July 27; v. 276; p. 665.

Robinson, Clarence N., Palatine Bridge, N. Y. Hermetic closure for receptacles. No. 1,346,257; July 13; v. 276; p. 245.

Robinson, Frank, Chicago, Ill. Spark-plug. No. 1,347,662; July 27; v. 276; p. 638.

Robinson, George O., Port Dover, Ontario, Canada. Cone-baking machine. No. 1,346,338; July 13; v. 276; p. 262.

Robinson, Hugh A., Keyport, N. J., assignor to Aeromarine Plane & Motor Co., Inc. Aeroplane. No. 1,345,885; July 6; v. 276; p. 110.

Robson, William H., and A. Powell, London, England. Foot-arch support. No. 1,346,059; July 6; v. 276; p. 145.

Rochester Washing Machine Corporation. (See Couch, Forrest J., assignor.)

Rock Hill Paint and Cloth Company. (See Thompson, Nathaniel A., assignor.)

Rockwell, Robert L. (See Stevens, H. R., and Rockwell, assignors.)

Röder, Karl, Mülheim-Ruhr, Germany. Compensating axial thrust in multistage turbines. No. 1,347,591; July 27; v. 276; p. 624.

Roderick, Arthur J., Jackman, Me. Motion-picture machine. No. 1,347,875; July 27; v. 276; p. 681.

Rodik Company. (See Roberts, Henry P., assignor.)

Rodriguez y Rodriguez, Ramon, Central Mercedes, Cuba. Colander for defecated cane-juice. No. 1,346,060; July 6; v. 276; p. 145.

Roe, Alliott V., Bursledon, England. Body structure for road-vehicles and the like. No. 1,347,592; July 27; v. 276; p. 625.

Roe, John P. (See Shields, H. F. H., and Roe.)

Roehuck, Mathew P. (See Martin, W. A., and Roehuck.)

Roessler & Hasslacher Chemical Co., The. (See Anders, Hanns R., assignor.)

Rogati, Agostino and L. Aronne, New York, N. Y. Soundbox for phonographs. No. 1,346,685; July 13; v. 276; p. 329.

Roger, Joseph, Paris, France. Apparatus for massaging the eyes. No. 1,346,724; July 13; v. 276; p. 337.

Rogers, Allen, Brooklyn, N. Y. Making leather. No. 1,346,385; July 13; v. 276; p. 270.

Rogers Fibre Company. (See Jacquemin, Auguste F., assignor.)

Rogers, Richard H., London, England. Wheel or pulley. No. 1,346,511; July 13; v. 276; p. 295.

Rogers, Samuel, Anderson, Ind., assignor to The Remy Electric Company. Coil-winding form. No. 1,347,521; July 27; v. 276; p. 610.

Rohlff, Herman, Davenport, Iowa. Ever-set cage-trap. No. 1,347,407; July 20; v. 276; p. 531.

Rolph, Thomas W. (See Minor, W. F., Keller, and Rolph.)

Ralston, Emmett H. (See Meador, William C., assignor.)

Ronda, August C. (See Nagel, Henry W., assignor.)

Rooker, Johannes G. F., Vrijenban, near Delft, assignor to Firma A. De Jong, Scheepswerf en Machinefabriek, Vlaardingen, Netherlands. Embroidering-machine. No. 1,348,054; July 27; v. 276; p. 717.

Roos, Delmar G., assignor to The Locomobile Company of America, Bridgeport, Conn. Power-transmitting mechanism. No. 1,345,462; July 6; v. 276; p. 26.

Root, Ralph C., assignor to Service Products Corporation, Indianapolis, Ind. Fan construction. No. 1,347,522; July 27; v. 276; p. 610.

Root, Ruby, San Diego, Calif. Button-fastener. No. 1,347,759; July 27; v. 276; p. 659.
Ropeways Limited. (See Shields, H. F. H., and Roe, assignors.)
Rose, John H., Holyoke, Mass. Swivel-truck. No. 1,346,466; July 13; v. 276; p. 286.
Rose, Samuel S., assignor of one-half to W. H. Weller, San Jose, Calif. Driven steering-wheel for vehicles. No. 1,347,293; July 20; v. 276; p. 509.
Rosenberg, Ralph H. (See Carter, George M., assignor.)
Rosenberg, Sidney C., New Haven, Conn. Wrench. No. 1,346,061; July 6; v. 276; p. 145.
Rosenberger, William, assignor to The Will & Baumer Company, Syracuse, N. Y. Sanctuary oil-lamp. No. 1,345,960; July 6; v. 276; p. 125.
Rosenfeld, Leo, New York, N. Y. Repair part or section for heels. No. 1,345,886; July 6; v. 276; p. 110.
Rosengren, Anders A., Malmö, Sweden. Tapping apparatus. No. 1,347,914; July 27; v. 276; p. 689.
Rosenield, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J. Lamp-support. No. 1,346,913; July 20; v. 276; p. 434.
Rosenwasser, Paul M., assignor to The Maurice Company, Cleveland, Ohio. Measuring attachment for cans. No. 1,346,558; July 13; v. 276; p. 305.
Rosner, Rudolf, Chicago, Ill. Blower. No. 1,346,796; July 13; v. 276; p. 353.
Ross, Waldo A., Sioux Falls, S. D. Extinguishing fires in and about hydrocarbon-tanks and apparatus for carrying out same. No. 1,347,057; July 20; v. 276; p. 463.
Rossini, Joshua, Olyphant, Pa. Water-pump-controlling device. No. 1,347,408; July 20; v. 276; p. 531.
Roth, Charles H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Telephone-reel. No. 1,346,467; July 13; v. 276; p. 287.
Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,424; July 13; v. 276; p. 278.
Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,425; July 13; v. 276; p. 278.
Roth Manufacturing Company. (See Roth, Edward N., assignor.)
Roth Manufacturing Company. (See Russell, E. A., and Harriman, assignors.)
Rothberg, Jacob B. (See Silverstein, J., and Rothberg.)
Rothermel, Curtis J., Philadelphia, Pa., assignor to The Barrett Company. Container and dispensing device. No. 1,347,231; July 20; v. 276; p. 496.
Rotinoff, Alexander G., London, England. Construction of ferroconcrete piles *in situ*. No. 1,347,973; July 27; v. 276; p. 700.
Roto Company, The. (See Darlington, Philip J., assignor.)
Routin, Joseph L., Paris, France. Anti-aircraft gunfire control. No. 1,345,698; July 6; v. 276; p. 72.
Routin, Joseph L., Paris, France. Fire-control tachometer. No. 1,345,699; July 6; v. 276; p. 73.
Routin, Joseph L., Paris, France. Anti-aircraft gunfire-control system. No. 1,345,700; July 6; v. 276; p. 73.
Routin, Joseph L., Paris, France. Anti-aircraft fire control. No. 1,345,701; July 6; v. 276; p. 73.
Routin, Joseph L., Paris, France. Apparatus for regulating the firing of guns. No. 1,345,702; July 6; v. 276; p. 73.
Routin, Joseph L., Paris, France. Anti-aircraft gunfire-control apparatus. No. 1,345,703; July 6; v. 276; p. 74.
Routin, Joseph L., Paris, France. Anti-aircraft tracker. No. 1,345,704; July 6; v. 276; p. 74.
Routin, Joseph L., Paris, France. Anti-aircraft fire control apparatus. No. 1,345,705; July 6; v. 276; p. 74.
Routin, Joseph L., Paris, France. Range-finding method and apparatus. No. 1,345,706; July 6; v. 276; p. 74.
Routin, Joseph L., Paris, France. Apparatus for regulating the firing of anti-aircraft. No. 1,345,707; July 6; v. 276; p. 74.
Routt, Orville L., G. C. McConnell and H. L. Glaze, assignors to Plastoid Products, Inc., Los Angeles, Calif. Machine for transporting and drying plaster-board and the like. No. 1,346,339; July 13; v. 276; p. 262.
Rowe, Cecil B., and J. Lavercombe, Castlemaine, Victoria, Australia. Headlight attachment for vehicles. No. 1,347,409; July 20; v. 276; p. 532.
Rowe, Knox M. (See Daugherty, John Q., assignor.)
Rowley, William S., Palmyra, N. J., assignor to H. W. Rutterworth & Sons Company. Cloth opener, spreader, and guider. No. 1,347,714; July 27; v. 276; p. 649.
Rowntree, Harold, Kenilworth, Ill., assignor to National Pneumatic Company, New York, N. Y. Train-control system. No. 1,347,528; July 27; v. 276; p. 610.
Rubber Regenerating Company. (See Price, Raymond B., assignor.)
Rubino, Giuseppe, Turin, Italy. Rim for pneumatic-tired wheels. No. 1,346,468; July 13; v. 276; p. 287.
Ruder, William E., Schenectady, N. Y., assignor to General Electric Company. Treating metals. No. 1,346,062; July 6; v. 276; p. 145.
Ruf, George. (See Heintz, J. C., and Ruf.) (Reissue.)
Rugh, Harry O., Chicago, Ill. Telegraph signaling system. No. 1,347,176; July 20; v. 276; p. 485.
Rugh, Harry O., Chicago, Ill. Mirror device. No. 1,347,593; July 27; v. 276; p. 625.
Runkle, John H., Jr., Rossie, Iowa. Mail-box-signal device. No. 1,346,789; July 13; v. 276; p. 351.
Runner, Claude C., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,347,760; July 27; v. 276; p. 659.
Rush, Albert, assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Combined hinged and sliding door. No. 1,348,125; July 27; v. 276; p. 731.
Rush, Fred O., New Castle, Del., assignor to American Manganese Steel Company, Chicago, Ill. Pug-mill knife. No. 1,347,876; July 27; v. 276; p. 681.
Russell, Arthur L., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stretching apparatus. No. 1,346,258; July 13; v. 276; p. 246.
Russell, Edward A., and S. P. Harriman, assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,421; July 13; v. 276; p. 277.
Russell, Edward A., and S. P. Harriman, assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,422; July 13; v. 276; p. 277.
Russell, Edward A., and S. P. Harriman, assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,423; July 13; v. 276; p. 278.
Russell, Homer B., Walnut Grove, Ala. Music-turning device. No. 1,347,556; July 27; v. 276; p. 617.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof. No. 1,347,974; July 27; v. 276; p. 700.
Rust, Thomas E., Waterloo, Iowa. Splice-bar for rail-joints. No. 1,347,877; July 27; v. 276; p. 682.
Rutherford, Eugene W., New Haven, Conn., assignor to The Shoe Hardware Company. Buckle. No. 1,346,979; July 20; v. 276; p. 447.
Ryan, Cornelius J., Meriden, Conn. Cap-remover. No. 1,347,410; July 20; v. 276; p. 532.
Ryan, Thomas F. (See Thompson, John T., assignor.)
Ryer, Everett W., Colorado Springs, Colo. Stove or furnace. No. 1,345,887; July 6; v. 276; p. 110.
Ryer, Everett W., Colorado Springs, Colo. Firepot. No. 1,345,888; July 6; v. 276; p. 110.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,345,508; July 6; v. 276; p. 36.
S K F Administrative Company. (See Palmgren, Nils A., assignor.)
S. W. H. Engineering Company, The. (See Howe, James M., assignor.)
Saalburg, Charles W., New York, N. Y. Changing pictures. No. 1,347,793; July 27; v. 276; p. 665.
Saalburg, Charles W., assignor to Animated Picture Products Company, New York, N. Y. Plate-holder for making changeable pictures. No. 1,347,794; July 27; v. 276; p. 665.
Saeger, Raymond A., Ankona, Fla. Gradometer. No. 1,348,055; July 27; v. 276; p. 717.
Safety Block Signal Company, The. (See Williams, Frank C., assignor.)
Safety Machinery Corporation. (See Axilrod, Meyer, assignor.)
Sager, J. H., Company. (See Sager, James H., assignor.)
Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper for automobiles. No. 1,345,553; July 6; v. 276; p. 45.
Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper for automobiles. No. 1,345,554; July 6; v. 276; p. 45.
Salinger, Berthold, New York, N. Y. Detachable auxiliary seat for automobiles. No. 1,347,594; July 27; v. 276; p. 625.
Salmon, Edward W., Jr., assignor to Hull, Salmon Mfg. Co., Inc., Baltimore, Md. Fire-extinguishing device for film-cabinets. No. 1,345,509; July 6; v. 276; p. 36.
Sanda, Frank I., Steelton, Pa. Combined letter-sheet and envelop. No. 1,345,961; July 6; v. 276; p. 125.
Sandberg, David E., Detroit, Mich. Adjustable detachable rod and fixture support. No. 1,345,463; July 6; v. 276; p. 27.
Sanders, Aura J., Cedar Springs, Mich. Pen or pencil attachment. No. 1,345,962; July 6; v. 276; p. 126.
Sandor, Andrew, New York, N. Y. Jumping toy. No. 1,347,663; July 27; v. 276; p. 638.
Sangamo Electric Company. (See White, O., and Young, assignors.)
Sani-Fold Company of California, The. (See Lloyd, Converse W., assignor.)
Sanitary Can Machinery Company. (See Brenzinger, Julius, assignor.)
Santilli, Stefano, Canton, Ohio. Grating device. No. 1,346,340; July 13; v. 276; p. 262.
Sargent & Company. (See Page, Albert A., assignor.)
Sargent, Lemuel H., Fort Worth, Tex. Well-cleaner. No. 1,345,555; July 6; v. 276; p. 45.
Sárközy, Eugene, New York, N. Y. Knife. No. 1,345,637; July 6; v. 276; p. 60.
Särnmark, Axel U., Stockholm, Sweden. Selective control system. No. 1,347,715; July 27; v. 276; p. 649.
Saslow, Edward, Muskegon, Mich. Electric apparatus for heating and vaporizing hydrocarbon fuels. No. 1,347,177; July 20; v. 276; p. 485.
Sauls, Norris J., Plant City, Fla. Safety device for railways. No. 1,348,056; July 27; v. 276; p. 718.
Saurer, Firma Adolphe. (See Hänni, Ernest, assignor.)

Saurer, Hippolyt, Arbon, Switzerland. Shuttle-operating mechanism for embroidering-machines. No. 1,347,232; July 20; v. 276; p. 496.
Sauvage, Herbert J., Chicago, Ill. Motor-vehicle. No. 1,346,914; July 20; v. 276; p. 434.
Sauvage, Herbert J., Chicago, Ill. Tractor. No. 1,346,915; July 20; v. 276; p. 434.
Savage, Stanley W. (See Dabbs, A. E., Savage, and Hindle.)
Savings Investment and Trust Company, executors, *et al.* (See Aylsworth, J. W., and Aiken.)
Sawtell, William H., assignor of one-half to N. R. Thibert, Worcester, Mass. Nut-locking device. No. 1,347,294; July 20; v. 276; p. 509.
Saxon, Sarah A. (See Hood, James J., assignor.)
Scanes, Arthur E. L., Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Apparatus for exhausting air and noncondensable gases. No. 1,346,980; July 20; v. 276; p. 447.
Scanes, Arthur E. L., Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Valve device. No. 1,347,411; July 20; v. 276; p. 532.
Scarborough, Henry. (See Steere, Clarence E., assignor.)
Schaefer, Peter C., H. D. Hulse, and G. M. Livingstone, Denver, Colo., assignors to said P. C. Schaefer. Auto-porch bed. No. 1,347,412; July 20; v. 276; p. 532.
Schaefer, Peter C., Denver, Colo. Auto-porch bed. No. 1,347,413; July 20; v. 276; p. 532.
Scheanblum, Grace. (See Scheanblum, Robert, and G.)
Scheanblum, Robert and Grace, Danbury, Conn. Hair foundation. No. 1,347,915; July 27; v. 276; p. 689.
Schenk, Bernhardt, Chicago, Ill. Pipe and rod bending machine. No. 1,346,981; July 20; v. 276; p. 448.
Schenk, Martin J., Chicago, Ill. Crank-shaft. No. 1,347,178; July 20; v. 276; p. 485.
Scherbner, Paul H. E., New York, N. Y. Grating. No. 1,346,426; July 13; v. 276; p. 278.
Schindler, Henry E., Sisseton, S. D. Corn and callus treating device. No. 1,347,557; July 27; v. 276; p. 617.
Schinkez, Albert, assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Percussion-tool. No. 1,346,341; July 13; v. 276; p. 262.
Schlieder, Augustus E., assignor to Schlieder Manufacturing Co., Detroit, Mich. Machine for trimming valves. No. 1,346,259; July 13; v. 276; p. 246.
Schlieder Manufacturing Co. (See Schlieder, Augustus E., assignor.)
Schlüns, Carl, Mehlis, Thuringia, Germany. Typewriting-machine. No. 1,345,510; July 6; v. 276; p. 36.
Schmandt, Jacob E., Eddyville, Oreg. Bag supporting and clamping mechanism. No. 1,346,260; July 13; v. 276; p. 246.
Schmertz, Louis R., Jeannette, Pa. Tool for handling and manipulating vehicle tires and wheels. No. 1,345,889; July 6; v. 276; p. 110.
Schmidt, Charles D., Jamaica, N. Y. Antiskid device for vehicle-wheels. No. 1,347,524; July 27; v. 276; p. 610.
Schmidt, Godfrey P. (See Robertson, Maxwell W., assignor.)
Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilating apparatus. No. 1,345,638; July 6; v. 276; p. 60.
Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,345,639; July 6; v. 276; p. 61.
Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,345,640; July 6; v. 276; p. 61.
Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Marine turbine. No. 1,345,641; July 6; v. 276; p. 61.
Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade-mounting. No. 1,345,642; July 6; v. 276; p. 61.
Schmidt, Oscar, Inc. (See Haberman, Charles, assignor.)
Schmutte, Ernest A., White Bluffs, Tenn. Blade for agricultural implement. No. 1,346,261; July 13; v. 276; p. 246.
Schneider, Adolf J., Brooklyn, N. Y. Shoe. No. 1,345,407; July 6; v. 276; p. 16.
Schneider, Charles O., assignor to The Patent File and Tool Company Limited, Wimbledon, London, England. File. No. 1,345,890; July 6; v. 276; p. 111.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Transport apparatus for demounting and remounting gun-barrels. No. 1,345,891; July 6; v. 276; p. 111.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Transport apparatus for demounting and remounting gun-barrels. No. 1,345,892; July 6; v. 276; p. 111.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Brake for guns. No. 1,346,560; July 13; v. 276; p. 305.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun for accompanying attacking troops. No. 1,346,561; July 13; v. 276; p. 306.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gas for accompanying attacking troops. No. 1,346,562; July 13; v. 276; p. 306.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Projectile for bomb-throwers. No. 1,347,125; July 20; v. 276; p. 475.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Elastic suspension for wheeled gun-carriages. No. 1,347,916; July 27; v. 276; p. 689.
Schneider, Joseph, Cincinnati, Ohio. Automobile tire-chain and holder. No. 1,346,469; July 13; v. 276; p. 287.
Schneider, Victor H., Aurora township, Florence county, Wis. Screwdriver. No. 1,345,708; July 6; v. 276; p. 75
Schnitzspahn, Oscar E., Buffalo, N. Y. Coin-counting apparatus. No. 1,347,179; July 20; v. 276; p. 485.
Schofield, Frederick C., assignor to Comas Cigarette Machine Company, Salem, Va. Cutting atttachment for cigarette-machines. No. 1,348,057; July 27; v. 276; p. 718.
Schopbach, Charles H., assignor to International Corset Company, Aurora, Ill. Corset. No. 1,347,180; July 30; v. 276; p. 486.
Schoute, Cornelis, De Bilt, near Utrecht, F. A. von Herst, Soesterberg, and N. E. G. Meyer, Bosch en Duin, near Zeist, Netherlands. Apparatus for the determination of velocities in or of air or water. No. 1,345,556; July 6; v. 276; p. 45.
Schrader, John R., assignor to Dieter Nut Company, New York, N. Y. Lock-nut. No. 1,347,124; July 20; v. 276; p. 475.
Schrader, Martin E., Oakland, Calif. Auxiliary air valve for carbureters. No. 1,347,795; July 27; v. 276; p. 665.
Schroeder, Frank H., assignor of one-half to R. E. Edwards, Richmond, Ind. Kitchen-cabinet. No. 1,346,470; July 13; v. 276; p. 287.
Schroeder, Jesse L., Erie, N. D. Machine for cutting seed-potatoes. No. 1,347,058; July 20; v. 276; p. 463.
Schulz, Heinrich. (See Hintz, E., and Schulz.)
Schuster, George. (See Daniels, Frank A., and Schuster.)
Schwab, Edward C., assignor to Phoenix Knitting Works, Milwaukee, Wis. Machine for and method of producing knitted puttees and the like. No. 1,346,136; July 13; v. 276; p. 221.
Schwanke, Conrad L., Cornelius, Oreg. Rotary valve for internal-combustion engines. No. 1,346,686; July 13; v. 276; p. 330.
Schwartz, A. Charles. (See Grabau and Schwartz.)
Schwartz, Carl, Sheboygan Falls, Wis. Attachment for fountain-pens. No. 1,346,982; July 20; v. 276; p. 448.
Schwarze, Herman, assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,345,893; July 6; v. 276; p. 111.
Schweiz. Serum- und -Impfinstitut. (See Eckmann, Aron, assignor.)
Scoby, John R., Okmulgee, Okla. Internal-lock bait for drawing glass. (Reissue.) No. 14,911; July 6; v. 276; p. 155.
Scofield, Glenn M., San Diego, Calif., assignor to United Concrete Pipe Company, New York, N. Y. Reinforced-concrete conduit. No. 1,346,687; July 13; v. 276; p. 330.
Scoby, John R., Okmulgee, Okla. Glass-furnace. No. 1,347,181; July 20; v. 276; p. 486.
Scott, Archie, Ocala, Fla. Eyeglass-chain. No. 1,346,559; July 13; v. 276; p. 305.
Scott, James W., Falcon, Colo. Agricultural implement. No. 1,345,964; July 6; v. 276; p. 126.
Scott, John M., Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,347,595; July 27; v. 276; p. 625.
Scott, Joseph A., and J. S. Voigt, assignors of one-third to J. Stuart, Detroit, Mich. Tire-lock. No. 1,347,467; July 20; v. 276; p. 543.
Scott, Robert W., Babylon, N. Y., assignor to Scott & Williams, Incorporated. Web-holder mechanism for knitting-machines. No. 1,345,408; July 6; v. 276; p. 16.
Scott, Robert W., Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Starting selvage and tucking device for knitting-machines. No. 1,348,144; July 27; v. 276; p. 734.
Scott, Walter R., Philadelphia, Pa. Lace-machine-carriage-threading mechanism. No. 1,346,790; July 13; v. 276; p. 351.
Scott and Williams. (See Nicholson, Fred C., assignor.)
Scott & Williams. (See Scott, Robert W., assignor.)
Seaman, Robert G., Summerhill, Pa. Steam-boiler furnace. No. 1,346,769; July 13; v. 276; p. 347.
Sears, Roebuck and Company. (See Hoffman, Rudolph, assignor.)
Sedlak, John, Fairchance, Pa. Rail-joint. No. 1,347,414; July 20; v. 276; p. 533.
Sedwick, Mathew M., Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Stack-holder for can ends. No. 1,347,295; July 20; v. 276; p. 509.
Sefton Manufacturing Corporation. (See Edington, Henry V., assignor.)
Seguin, Laurent, assignor to Societe Des Moteurs Gnome Et Rhone, Paris, France. Centrifugal pump. No. 1,345,895; July 6; v. 276; p. 112.
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,345,894; July 6; v. 276; p. 112.

Bell, Ella E., Spokane, Wash. Combined curtain-pole and window-shade bracket. No. 1,347,126; July 20; v. 276; p. 475.

Bella, Edward J., Jewell, Iowa. Extension steering device. No. 1,347,296; July 20; v. 276; p. 509.

Bellers, John A., *et al.* (See Edgar, Robert A., assignor.)

Semko, Andrew. (See Sokač, J., and Semko.)

Semple, John B., Sewickley, Pa. Selectively-acting fuse. No. 1,347,716; July 27; v. 276; p. 649.

Seng Company, The. (See Okun, Morris B., assignor.)

Serediuk, John, Winnipeg, Manitoba, Canada. Automobile-wheel tread. No. 1,346,262; July 13; v. 276; p. 246.

Service Machine Company, The. (See Daniels, Harry H., assignor.)

Service Products Corporation. (See Root, Ralph C., assignor.)

Service, William F., Poughkeepsie, assignor, by mesne assignments, to C. Hardy and C. H. Potter, New York, N. Y. Foot-pump. No. 1,348,058; July 27; v. 276; p. 718.

Sessions, Frank L., Lakewood, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Apparatus for electric welding. (Reissue.) No. 14,027; July 27; v. 276; p. 735.

Settlage, Rudolph F., Alton, Ill., assignor to Brokaw-Eden Company. Door-lock for revolving drums. No. 1,346,263; July 13; v. 276; p. 247.

Settlage, Rudolph F., St. Louis, Mo. Reversing-gear for washing-machines. No. 1,347,975; July 27; v. 276; p. 700.

Sewell, O. A., *et al.* (See Atteberry, William A., assignor.)

Seymour, John K., assignor of one-fifth to M. H. Stearns and one-fifth to R. W. Kauffman, Elyria, Ohio. Garment supporter and fastener. No. 1,346,342; July 13; v. 276; p. 262.

Seymour Metal Goods Company, The. (See Hancock, Thomas F., assignor.)

Shadford, Orva L., Los Angeles, Calif. Marker for planters. No. 1,346,063; July 6; v. 276; p. 145.

Shafer, Arthur A., assignor to Rickert-Shafer Company, Erie, Pa. Threading-die mechanism. No. 1,345,709; July 6; v. 276; p. 75.

Shafer, Arthur A., assignor to Rickert-Shafer Company, Erie, Pa. Collapsible tap. No. 1,345,710; July 6; v. 276; p. 75.

Shafer, Charles D., Escatawpa, Miss. Weather-strip. No. 1,345,409; July 6; v. 276; p. 16.

Shaffer, Glenn. (See Gieser, C., and Shaffer.)

Shaffer, Joseph, McKittrick, Calif. Adjustable pipe-wrench. No. 1,346,983; July 20; v. 276; p. 448.

Shane, Edgar G., Ottawa, Ontario, Canada. Automobile-signal. No. 1,345,557; July 6; v. 276; p. 46.

Shanklin, Benjamin M., Springfield, Mass. Strip-punching apparatus. No. 1,346,916; July 20; v. 276; p. 434.

Shapiro, Morris M., Philadelphia, Pa. Display-box. No. 1,345,711; July 6; v. 276; p. 75.

Sharp, Charles S., Auburn, N. Y., assignor, by mesne assignments, to International Harvester Company. Cultivator. No. 1,346,512; July 13; v. 276; p. 295.

Sharp, Joseph W., Jr., Berwyn, Pa., assignor to Haines, Jones & Cadbury Incorporated. Faucet control. No. 1,345,643; July 6; v. 276; p. 61.

Sharp & Smith. (See Brix, Harold M., assignor.)

Shaughnessy, Sara. (See Carhart, L. P., and Shaughnessy.)

Shaw, Charles H., Babylon, N. Y. Phonograph sound-boxes. No. 1,347,059; July 20; v. 276; p. 463.

Shaw, Luther S., Detroit, Mich. Boiler arch and wall and means for supporting same. No. 1,345,410; July 6; v. 276; p. 17.

Shaw, Robert M., St. Louis, Mo. Electrolytic cell. No. 1,346,849; July 20; v. 276; p. 421.

Shawnee Mower Company. (See Worthington, Charles C., assignor.)

Shay, James M., assignor to Steel Velour Screen Corporation, Buffalo, N. Y. Picture-screen. No. 1,347,761; July 27; v. 276; p. 659.

Shearer, Edward J., Colton, Calif., and M. M. Owens, Lordsburg, N. Mex. Gage-cock. No. 1,346,984; July 20; v. 276; p. 448.

Sheehan, William M., assignor to Commonwealth Steel Company, St Louis, Mo. Locomotive front-end frame. No. 1,345,464; July 6; v. 276; p. 27.

Shelton, Harry J., St. Louis, Mo. Hammer mounting for pulverizers and the like. No. 1,347,717; July 27; v. 276; p. 649.

Shelton, William, New York, N. Y. Torpedo-controlling mechanism. No. 1,346,264; July 13; v. 276; p. 247.

Shepard, Wilbur L., Elmwood, assignor to The World Gas Engine Company, Hartford, Conn. Hydrocarbon-engine. No. 1,347,762; July 27; v. 276; p. 659.

Sheperdson, John W., assignor to Morgan Construction Company, Worcester, Mass. Method of and apparatus for rolling metal. No. 1,347,917; July 27; v. 276; p. 689.

Sheppard, Albert K., Port Moody, British Columbia, Canada. Jar-lifter. No. 1,348,059; July 27; v. 276; p. 718.

Sheppard, Clarence D., Milwaukee, Wis. Anchor and support for concrete-road forms. No. 1,348,060; July 27; v. 276; p. 719.

Sherbondy, Earl H., Cleveland, Ohio. Automatic control for turbo-compressors. No. 1,346,563; July 13; v. 276; p. 306.

Sherbondy, Earl H., Cleveland, Ohio. Supercharging device for turbo-compressors. No. 1,346,564; July 13; v. 276; p. 306.

Sherbondy, Earl H., Cleveland, Ohio. Turbine-control housing. No. 1,346,565; July 13; v. 276; p. 306.

Sheridan Iron Works, *et al.* (See Bredenberg, Alfred, assignor.)

Sheridan, T. W., and C. B., Company, *et al.* (See Bredenberg, Alfred, assignor.)

Sherman, Cortis F., Hartford, Conn., assignor to Hess-Bright Manufacturing Company, Philadelphia, Pa. Expanding arbor. No. 1,346,917; July 20; v. 276; p. 435.

Sherman, Elmer E. (See Ellis, W. M., and Sherman.)

Sherman, Frank A., and J. M. Hall, Hamilton, Ontario, Canada. Method and apparatus for making shell-forgings. No. 1,347,415; July 20; v. 276; p. 533.

Sherwood, John K. (See Fortier, J. J., and Sherwood.)

Shields, George F., assignor of one-fourth to H. E. Shiner, one-fourth to J. P. Berne, and one-fourth to L. E. Wright, Los Angeles, Calif. Carbureter attachment. No. 1,347,297; July 20; v. 276; p. 509.

Shields, Herbert F. H., Welling, and J. P. Roe, London, assignors to Ropeways Limited, London, England. Aerial ropeway. No. 1,347,763; July 27; v. 276; p. 659.

Shigley, Alfred R., trustee. (See del Solar, Aristides, assignor.)

Shiner, Harold E., *et al.* (See Shields, George F., assignor.)

Shirley, William W., Pittsburgh, Pa. Adjustable gripping-tool. No. 1,347,764; July 27; v. 276; p. 660.

Shivers, Clifford H. (See Ballinger, W. F., and Shivers.)

Shivers, Robert H., Atlanta, Ga. Automatic director for headlights. No. 1,348,061; July 27; v. 276; p. 719.

Shoe Hardware Company, The. (See Rutherford, Eugene W., assignor.)

Shoenberg, Milton H., San Francisco, Calif. Combined sight-gage and valve. No. 1,346,725; July 13; v. 276; p. 337.

Shook, Jennie M., Phoenix, Ariz. Cream-separating milk-bottle. No. 1,348,062; July 27; v. 276; p. 719.

Shoop, Milo G. (See Masters, V. H., and Shoop.)

Short, Charles R., Detroit, Mich. Clutch mechanism. No. 1,345,897; July 6; v. 276; p. 112.

Shrader, James E., Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gage for low pressures. No. 1,346,427; July 13; v. 276; p. 279.

Shrader, James E., Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Mercury-manometer. No. 1,346,428; July 13; v. 276; p. 279.

Shrum, Peter J., Monaca Heights, assignor to Colona Manufacturing Company, Pittsburgh, Pa. Thread protector and making same. No. 1,347,765; July 27; v. 276; p. 660.

Shuford, Carl H., Dallas, Tex. Igniting device. No. 1,347,718; July 27; v. 276; p. 650.

Shuler, Andrew F., Arcanum, Ohio. Brooder. No. 1,346,688; July 13; v. 276; p. 330.

Shulters, Ralph W., Battle Creek, Mich. Collapsible container. No. 1,345,511; July 6; v. 276; p. 36.

Shuman, Frank G., Chicago, Ill. Tag-holder. No. 1,347,233; July 20; v. 276; p. 496.

Shute, Frederick W., Amesbury, Mass. Container for volatile liquids. No. 1,345,965; July 6; v. 276; p. 126.

Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Alloy of iron, chromium, and titanium and the production thereof. No. 1,346,343; July 13; v. 276; p. 263.

Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Making chrome steel. No. 1,346,344; July 13; v. 276; p. 263.

Siddeley-Deasy Motor Car Company. (See Green, F. M., and Heron, assignors.)

Sillett, Harry C., and A. W. Cowan, Kansas City, assignors of one-third to W. M. Myers, St. Joseph, Mo. Hydrocarbon-gas generator and burner. No. 1,346,770; July 13; v. 276; p. 347.

Sills, Berton H., Toronto, Ontario, Canada. Fender for motor-cars. No. 1,346,850; July 20; v. 276; p. 421.

Silver, Hyman, New York, N. Y. Self-heated soldering-iron. No. 1,345,411; July 6; v. 276; p. 17.

Silverstein, Julius, and J. B. Rothberg, New York, N. Y. Spectacles. No. 1,346,429; July 13; v. 276; p. 279.

Silverthorne, Frank H., New York, N. Y. Bottle-valve mounting. No. 1,346,137; July 13; v. 276; p. 221.

Simmonds, Eugene B. (See Ullman, E. B., Simmonds, and Atkinson.)

Simms, Frederick R., assignor of one-half to Simms Motor Units, Limited, London, England. Flexible coupling. No. 1,345,896; July 6; v. 276; p. 112.

Simms Motor Units. (See Simms, Frederick R., assignor.)

Simmons, Henry C., Atlanta, Ga. Writing-pad. No. 1,345,558; July 6; v. 276; p. 46.

Simon, Arthur B., Chicago, Ill. Vending device. No. 1,347,558; July 27; v. 276; p. 618.

Simons, Alex, Detroit, Mich. Scale-holder. No. 1,346,513; July 13; v. 276; p. 296.

Simpson, James E., Brooklyn, assignor to Typewriter Accessories Co., Inc., New York, N. Y. Typewriting-machine. No. 1,346,851; July 20; v. 276; p. 421.

Singer, George W., South Bend, Ind. Automobile-fender. No. 1,346,345; July 13; v. 276; p. 263.

Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)

Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)

Singer Manufacturing Company, The. (See Fifield, Albert F., assignor.)

Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)

Singer Manufacturing Company, The. (See Gray, Charles F., assignor.)

Singleterry, Sidney, Dallas, Oreg. Convertible chair. No. 1,347,127; July 20; v. 276; p. 475.

Siprelle, Harry A., Cleveland, Ohio. Tire. No. 1,346,546; July 13; v. 276; p. 263.

Sisbower, George F., East Orange, N. J., and L. E. Pittoni, New York, N. Y., assignors to New York Couch Bed Company, New York, N. Y. Couch-hammock. No. 1,346,689; July 13; v. 276; p. 330.

Sissel, John H., Lamont, Iowa. Tractor. No. 1,346,771; July 13; v. 276; p. 347.

Sisson, Vinton E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Railway-car. No. 1,347,878; July 27; v. 276; p. 682.

Sivils, Floyd E., Lawrence, Miss. Harrow. No. 1,345,966; July 6; v. 276; p. 127.

Skinner, Fred R., Syracuse, N. Y., assignor of one-half to E. Ripley, Los Angeles, Calif. Paper bag. No. 1,346,852; July 20; v. 276; p. 421.

Slater, Fred M. (See Bayles, L. C., and Slater.)

Slater, John M. L. (See Du Pasquier, A., and Slater.)

Slater, Vern, assignor to The Claxo Company, Iowa City, Iowa. Air-diffusion machine. No. 1,346,471; July 13; v. 276; p. 287.

Slauson, Stephen A., Cedar Rapids, Iowa. Gate and hinge construction. No. 1,345,559; July 6; v. 276; p. 46.

Sleeper, Joseph J., Moorea, Del., and W. Mills, Pleasantville, N. J.; said Mills assignor to said Sleeper. Wrapper-pasting device. No. 1,347,182; July 20; v. 276; p. 486.

Slipp, Robert R., Fort Fairfield, Me. Machine-hoe. No. 1,346,265; July 13; v. 276; p. 247.

Slipp, Robert R., Fort Fairfield, Me. Ground-working implement. No. 1,346,266; July 13; v. 276; p. 247.

Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Receptacle-closure. No. 1,346,853; July 20; v. 276; p. 421.

Slonek, Frank G., assignor to R. M. Hvid Company, Chicago, Ill. Fuel-valve. No. 1,346,267; July 13; v. 276; p. 247.

Small, John G. (See Small, William and J. G.)

Small, Ralph B. (See Whitaker, Samuel T., assignor.)

Small, William and J. G., Paterson, N. J. Vehicle-tire. No. 1,346,514; July 13; v. 276; p. 296.

Smalley, Edwin L., East Orange, N. J. Electric furnace. No. 1,346,854; July 20; v. 276; p. 422.

Smalley, Paul C., Newark, N. J. Flash-light device. No. 1,346,138; July 13; v. 276; p. 222.

Smedley, Thomas J. (See La Master, Vernon E., assignor.)

Smelser, Jess, Topeka, Kans. Door. No. 1,345,937; July 6; v. 276; p. 127.

Smit, Harry, New York, N. Y. (Reissue.) Surgical instrument. No. 14,023; July 20; v. 276; p. 547.

Smith, Arthur M., Cleveland, Ohio. Apparatus for producing coke. No. 1,346,515; July 13; v. 276; p. 296.

Smith, Arthur R., Fort Wayne, Ind. Airplane. No. 1,346,472; July 13; v. 276; p. 288.

Smith, Clyde L., and E. S. Webster, assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind. Rasping-disk. No. 1,347,298; July 20; v. 276; p. 510.

Smith, Clyde L., and E. S. Webster, assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind. Rasping-wheel. No. 1,347,299; July 20; v. 276; p. 510.

Smith & Coventry. (See Wright, Isaac H., assignor.)

Smith, Earl G., Crandon, Wis. Valve-control mechanism. No. 1,347,300; July 20; v. 276; p. 510.

Smith, Edward A., New York, N. Y. Door. No. 1,346,268; July 13; v. 276; p. 247.

Smith, Frank M., Chicago, Ill. Dry-separator. No. 1,346,610; July 13; v. 276; p. 315.

Smith, Franklin P. (See Josler, Argelo, assignor.)

Smith, Fred P., *et al.*, trustee. (See Allen, J. M., Smith, and Tucker.)

Smith, Friend W., assignor to The Bassick Company, Bridgeport, Conn. Sliding shoe for furniture. No. 1,347,720; July 27; v. 276; p. 650.

Smith and Furbush Machine Company. (See Coulston, Herbert V., assignor.)

Smith, George A., South Hill, Va. Cut-off sawing apparatus and using same. No. 1,346,269; July 13; v. 276; p. 248.

Smith, George H., Providence, assignor to C. D. Kenney, Cranston, R. I. Curtain-rod fixture. No. 1,347,525; July 27; v. 276; p. 611.

Smith, Henry R. (See Repass, Charles L., assignor.)

Smith, James E., Pueblo, Colo. Pole. No. 1,348,063; July 27; v. 276; p. 719.

Smith, Joseph J., Dorchester, Mass., assignor to Loose Wiles Biscuit Company, Long Island City, New York, N. Y. Device and mechanism for depositing coating upon food products. No. 1,346,270; July 13; v. 276; p. 248.

Smith, Leonard A., U. S. Army, assignor of one-half to A. H. Cannon, Washington, D. C. Combined range-finding, plotting, predicting, and gun-adjusting device. No. 1,346,430; July 13; v. 276; p. 279.

Smith, Milo H. (See Vierling, Bartholomew, and Smith.)

Smith One Heat System. (See Smith, C. L., and Webster, assignors.)

Smith, Reuben S., Milwaukee, Wis. Metal wheel. No. 1,347,183; July 20; v. 276; p. 486.

Smith, Reuben S., Milwaukee, Wis. Electric-arc-welding machine. No. 1,347,184; July 20; v. 276; p. 486.

Smith, Robert W. J., Houston, Tex. Power-transmitting mechanism. No. 1,346,139; July 13; v. 276; p. 222.

Smith, Stephen G., Brooklyn, N. Y. Dish-washing machine. No. 1,345,412; July 6; v. 276; p. 17.

Smith, Thomas, Warrnambool, Victoria, Australia. Means for turning crank-pins and eccentrics and truing crank-shafts. No. 1,346,271; July 13; v. 276; p. 248.

Smith, Vernon E. (See Williams, J. M., and Smith.)

Smith, W. A. (See Bowman, Levi M., assignor.)

Smith, Walter B. Springfield, Ohio. Beet-harvester. No. 1,347,596; July 27; v. 276; p. 625.

Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mounting for rock-drills. No. 1,347,185; July 20; v. 276; p. 486.

Smith, William E., Milltown, assignor to The Interwoven Mills, Inc., New Brunswick, N. J. Circular-knitting machine. No. 1,347,186; July 20; v. 276; p. 487.

Smith, William F., St. Louis, Mo. Spark-plug intensifier. No. 1,345,560; July 6; v. 276; p. 46.

Smithson, David B., Wellston, Okla. Animal-poke. No. 1,346,272; July 13; v. 276; p. 249.

Smithwick, James, Manson, N. C. Collapsible sling-shot. No. 1,345,561; July 6; v. 276; p. 46.

Smolar, Frank, Dayton, Ohio. Pedestal car-seat. No. 1,346,386; July 13; v. 276; p. 270.

Smolker, Abraham, Chelsea, Mass. Cement-applying machine. No. 1,345,512; July 6; v. 276; p. 36.

Smolley, Wayne, Brookville, Ind. Corn gathering or harvesting machine. No. 1,347,559; July 27; v. 276; p. 618.

Snavely, Clarence S. (See Fisher, A. W., and Snavely.)

Snow, Philo V., Dallas, Tex. Producing prints on metal. No. 1,346,140; July 13; v. 276; p. 222.

Snyder, Eugene L., Canton, Ohio. Floor-polisher. No. 1,346,918; July 20; v. 276; p. 435.

Snyder, William A., Masomanie, Wis. Razor-guard. No. 1,346,855; July 20; v. 276; p. 422.

Snyder, William S., Nashville, Tenn. Hydrant. No. 1,345,465; July 6; v. 276; p. 27.

Sobocinski, Joseph, Cudahy, Wis. Automobile direction-indicator. No. 1,345,562; July 6; v. 276; p. 47.

Società Anonima Italiana Gio. Ansaldo & Co. (See Perrone, Pio, assignor.)

Societe Anonyme Ateliers Otis Pifre. (See Derungs, Ernest A., assignor.)

Societe Anonyme Des Ateliers D'Aviation Louis Breguet. (See Breguet, Louis, assignor.)

Societe Anonyme des Engrenages. (See Boas, André, assignor.)

Societe Anonyme Des Etablissements Delaunay Belleville. (See Bourdelles, Emile A. L., assignor.)

Societe Anonyme Des Hauts-Fourneaux et Fonderies de Pont-A-Mousson. (See Henry, Emile, assignor.)

Societe Ch. M. Stein & Cie. (See Stein, Charles, assignor.)

Societe Chimique des Usines du Rhone, Anciennement Gilliard P. Monnet et Cartier. (See Weiss, André, assignor.)

Societe Des Moteurs Gnome Et Rhone. (See Seguin, Laurent, assignor.)

Societe Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville. (See Maire, Auguste, assignor.)

Sokač, John, and A. Semko, Kingston, Pa. Combination-receptacle. No. 1,346,431; July 13; v. 276; p. 279.

Sokolov, Jacob, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,347,187; July 20; v. 276; p. 487.

Sonoda, Heijiro, Yakima, Wash. Mechanical vehicle. No. 1,346,985; July 20; v. 276; p. 449.

South, Jerome J., Nashville, Tenn. Convertible chair. No. 1,345,513; July 6; v. 276; p. 36.

Southorne, William H., North Shields, England. Furnace for heating metal articles and the like. No. 1,347,719; July 27; v. 276; p. 650.

Southwick, Frank, Kansas City, Kans., assignor to Niles-Bement-Pond Company, New York, N. Y. Tire-turning device. No. 1,345,644; July 6; v. 276; p. 62.

Southwick, John W., North Collins, N. Y. Wave-motor. No. 1,347,829; July 27; v. 276; p. 672.

Sowinsky, Frenk, Washington, D. C. Tie-plate. No. 1,345,413; July 6; v. 276; p. 17.

Spadafora, Joseph, Cambridge, Mass. Resilient tire. No. 1,347,060; July 20; v. 276; p. 463.

Spaulding, Fenton J., assignor to Link-Belt Company, Chicago, Ill. Detachable connecting-link. No. 1,346,611; July 13; v. 276; p. 315.

Spayd, Chauncey I., Kansas City, Mo. Ironing board. No. 1,348,064; July 27; v. 276; p. 719.

Specialty Automatic Machine Company. (See La Bombard, Leon E., assignor.)

Speicher, Daniel E., assignor to The Cyclone Manufacturing Company, Urbana, Ind. Poultry-housing device. No. 1,345,968; July 6; v. 276; p. 127.

Spencer, John R. (See Freed, G. F., and Spencer.)
Spencer, Philip, assignor to J. H. Williams Company, Millbury, Mass. Shuttle. No. 1,345,898; July 6; v. 276; p. 112.
Spero, David L., Brownsville, Tex. Demountable-rim-fastening means. No. 1,347,128; July 20; v. 276; p. 476.
Spivak, David, New Haven, Conn. Window-lock. No. 1,346,065; July 6; v. 276; p. 146.
Sprague, Abbie C., Boston, Mass. Bookmarker. No. 1,346,856; July 20; v. 276; p. 422.
Spray Engineering Company. (See Day, Herbert W., assignor.)
Spring Stopper Company. (See Brown, Harry M., assignor.)
Springer, William J., Detroit, Mich. Safety device for elevators. No. 1,346,274; July 13; v. 276; p. 249.
Spuhler, Victor, Rothkreus, Switzerland. Two-stroke-cycle internal-combustion engine. No. 1,346,066; July 6; v. 276; p. 146.
Squires, Clyde E., Baylor, Mont. Footrest for radiators. No. 1,347,129; July 20; v. 276; p. 476.
Srader, Charles N., Canton, Okla. Repair-hub and wheel-pulley. No. 1,346,857; July 20; v. 276; p. 422.
St. Wrba, Joseph J., Houston, Tex. Hydrocarbon-burner. No. 1,347,920; July 27; v. 276; p. 690.
Stacy, Bessie, Port Clinton, Ohio. Suspenders. No. 1,345,969; July 6; v. 276; p. 127.
Stadtler, Mathias, Chicago, Ill. Slat-support for upholstery. No. 1,346,347; July 13; v. 276; p. 263.
Stafford, Arthur E., assignor to Potter & Asbestos Company Limited, Rochdale, Lancaster, England. Manufacturing jointing materials. No. 1,347,918; July 27; v. 276; p. 690.
Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,347,560; July 27; v. 276; p. 618.
Stålhane, Otto, and O. O. Kring, Djursholm, Sweden. Electric soldering-iron. No. 1,345,645; July 6; v. 276; p. 62.
Stamm, Ernest W., St. Louis, Mo. Box-fastener. No. 1,346,566; July 13; v. 276; p. 307.
Stamm, George T., Upland, assignor to F. Stebler, Riverside, Calif. Apparatus for drying fruit. No. 1,346,986; July 20; v. 276; p. 449.
Stamm, Hans. (See Hänni, Ernest, assignor.)
Standard Carrier Company. (See Pond, Martin A., assignor.)
Standard Computing Scale Company, The. (See Buckingham, Fremont H., assignor.)
Standard Parts Company, The. (See Fay, Thomas J., assignor.)
Standard Parts Company, The. (See Jobski, Otto H., assignor.)
Standard Parts Company, The. (See Sessions, Frank L., assignor.) (Reissue.)
Standard Parts Company, The. (See Theberath, Joseph C., assignor.)
Stanford, Arthur L., Chicago, Ill. Rail-anchor. No. 1,347,301; July 20; v. 276; p. 510.
Stanford, Arthur L., Chicago, Ill. Rail-anchor. No. 1,347,302; July 20; v. 276; p. 510.
Stanley, Chester F., Ashland, Ky. Airplane. No. 1,345,970; July 6; v. 276; p. 127.
Star, Richard, Brooklyn, N. Y. Flexible connection. No. 1,345,971; July 6; v. 276; p. 127.
Stark, Ottmar G. (See Flammang, John, assignor.)
Stark, Truman E., Aurora, Ill. Farm-tractor. No. 1,347,526; July 27; v. 276; p. 611.
Starker, Charles W., and C. H. Hodgkins, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control device for explosion-proof electrical apparatus. No. 1,347,879; July 27; v. 276; p. 682.
Starkie, Robert E., Burnley, England. Combined toy and savings-bank or collecting-box. No. 1,345,414; July 6; v. 276; p. 17.
Starr, Charles M., South Bend, Ind. Tire-pump. No. 1,346,919; July 20; v. 276; p. 435.
Stathopoulo, Epaminondas A., New York, N. Y. Banjo. No. 1,347,507; July 27; v. 276; p. 625.
Stearns, Milo H., *et al.* (See Seymour, John K., assignor.)
Stebbins, William A., Seattle, Wash. Razor. No. 1,347,234; July 20; v. 276; p. 496.
Stebler, Fred. (See Stamm, George T., assignor.)
Steel, Charles C., and T. H. Lynn, Williamsport, Pa. Tire-carrier for automobiles. No. 1,347,561; July 27; v. 276; p. 618.
Steel, Charles C., and T. H. Lynn, Williamsport, Pa. Spare-rim carrier for automobiles. No. 1,347,562; July 27; v. 276; p. 618.
Steel Products Company, The. (See Chism, Louis W., assignor.)
Steel Velour Screen Corporation. (See Shay, James M., assignor.)
Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Can-filling machine. No. 1,346,141; July 13; v. 276; p. 222.
Steigerwald, Edward, Philadelphia, Pa. Score-keeping apparatus. No. 1,346,987; July 20; v. 276; p. 449.
Stein, Abraham, Boston, Mass. Work holder and guide for sewing-machines. No. 1,346,988; July 20; v. 276; p. 449.
Stein, Charles, assignor to Societe Ch. M. Stein & Cie., Paris, France. Blast-furnace. No. 1,347,796; July 27; v. 276; p. 685.
Stein, Samuel F., Williamsport, Pa. Bifurcated garment. No. 1,347,188; July 20; v. 276; p. 487.
Steinacher, Hertha, New York, N. Y. Hair-curler. No. 1,346,920; July 20; v. 276; p. 435.
Steinbaugh, John, *et al.* (See Pickup, George E., assignor.)
Steinbrecher, John, Chicago, Ill. Combined shank and arch support for footwear. No. 1,347,061; July 20; v. 276; p. 465.
Stephens, Howard O., Pittsfield, Mass., assignor to General Electric Company. Electric apparatus. No. 1,345,712; July 6; v. 276; p. 75.
Stepin, John, Derby, Conn. Ventilator. No. 1,345,514; July 6; v. 276; p. 37.
Sterling, Bernard A., Chicago, Ill. Hair-waver. No. 1,347,830; July 27; v. 276; p. 672.
Sterling Specialties Manufacturing Company. (See Vierling, F. J., Bartholomew, and Smith, assignors.)
Sternhagen, Joseph P. (See Getman, D. D., and Sternhagen.)
Stettiner Chamotte-Fabrik Aktiengesellschaft vormals Didier. (See Piernay, Walter, assignor.)
Stevens, Grace M., Middletown Springs, Vt. Double envelop. No. 1,347,797; July 27; v. 276; p. 666.
Stevens, Henry R., and R. L. Rockwell, assignors to Universal Elevated Railway Company, Seattle, Wash. Electrical switch. No. 1,345,899; July 6; v. 276; p. 112.
Stevens, Horace D., Summit county, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Trimming-machine. No. 1,347,976; July 27; v. 276; p. 701.
Stevens, John P. (See Wedein, A., and Stevens.)
Stevens, Royale H., Risdon Road, Hobart, Tasmania, assignor to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Recovery of zinc by electrolysis. No. 1,347,189; July 20; v. 276; p. 487.
Stevens, William H., New York, N. Y. Clasp. No. 1,345,713; July 6; v. 276; p. 76.
Stevenson, Joseph W., Baltimore, Md. Trap. No. 1,347,130; July 20; v. 276; p. 476.
Stevenson, William G., Chicago, Ill. Grinding-mill. No. 1,345,714; July 6; v. 276; p. 76.
Stevenson, William G., Chicago, Ill. Crushing-machine. No. 1,345,715; July 6; v. 276; p. 76.
Stewart, George A., Jr. (See Kelley, E. H., and Stewart, Jr.
Stewart, John H. (See Bailey, C. W., and Stewart.)
Stewart, Laurence E., assignor to Consolidated Machine Company, Bradford, Pa. Apparatus for drawing glass cylinders. No. 1,347,131; July 20; v. 276; p. 476.
Stewart-Warner Speedometer Corporation. (See Burton, Charles S., assignor.)
Stewart-Warner Speedometer Corporation. (See Genn, John E., assignor.)
Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Seam-pounding machine. No. 1,346,275; July 13; v. 276; p. 249.
Stewart, William W., Leavenworth, Kans. Dispensing-machine. No. 1,347,416; July 20; v. 276; p. 533.
Stibbe, Godfrey, Leicester, England. Knitted glove and producing same. No. 1,346,516; July 13; v. 276; p. 296.
Stibbe, Godfrey, Leicester, England. Knitted glove and producing same. No. 1,346,517; July 13; v. 276; p. 296.
Stipes, Reuben B., and J. De Frain, Flint, Mich. Hold-down appliance. No. 1,346,387; July 13; v. 276; p. 270.
Stock Motorpflug Gesellschaft mit Beschrankter Haftung. (See Gleiche, Carl, assignor.)
Stock Quotation Telegraph Company. (See Hiltz, George S., assignor.)
Stockwell, Millard E., Monrovia, Calif. Tractor. No. 1,347,468; July 20; v. 276; p. 543.
Stokes, Fremont, Clarksville, Ark. Internal-combustion engine. No. 1,347,919; July 27; v. 276; p. 690.
Stokes, Robert J., Trenton, assignor to Thermoid Rubber Company, Hamilton township, N. J. Disk for flexible couplings and making same. No. 1,346,612; July 13; v. 276; p. 315.
Stoklosa, Frank, Chicago, Ill. Pump. No. 1,346,989; July 20; v. 276; p. 449.
Stoler, Edward W., and H. Trease, Mansfield, Ohio. Sanitary bedpan. No. 1,346,388; July 13; v. 276; p. 271.
Stone, Andrew H., Kansas City, Mo. Extension-table. No. 1,346,276; July 13; v. 276; p. 249.
Stone, Fred L., Schenectady, N. Y., assignor to General Electric Company. Electric hoists. No. 1,347,303; July 20; v. 276; p. 511.
Stone, Melvin L., Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass. Loom. No. 1,345,900; July 6; v. 276; p. 113.
Stonehouse, James W., Denver Colo. Sign. No. 1,348,065; July 27; v. 276; p. 719.
Stoner, Frank H., assignor to Wilder-Strong Implement Company, Monroe, Mich. Land-roller. No. 1,345,515; July 6; v. 276; p. 37.
Storrer, Hermann F., New York, N. Y., assignor to J. M. Voith Company, Inc. Pulp-refiner. No. 1,346,277; July 13; v. 276; p. 250.
Stover, Paul A., Cleveland, Ohio. Automobile-signal. No. 1,346,567; July 13; v. 276; p. 307.
Strang, Fred W., assignor to Gibraltar Tire & Rubber Company, Dallas, Tex. Making cushion-tires. No. 1,346,389; July 13; v. 276; p. 271.
Stratigos, Emanuel J., Cleveland, Ohio. Hat-bleaching composition. No. 1,347,721; July 27; v. 276; p. 650.

Striegler, Fritz, Fort McKavett, Tex. Automatic trough-valve. No. 1,347,353; July 20; v. 276; p. 521.
Stromberg, Jean E., San Diego, Calif. Panoramic camera. No. 1,347,062; July 20; v. 276; p. 464.
Strough, Howard P., Fresno, Calif. Tuning-peg for musical instruments. No. 1,345,972; July 6; v. 276; p. 128.
Stuart, Francis L., New York, N. Y. Apparatus for gathering and conveying material. No. 1,346,390; July 13; v. 276; p. 271.
Stuart, Francis L., New York, N. Y. Conveying apparatus. No. 1,346,990; July 20; v. 276; p. 449.
Stuart, Johnston. (See Scott, J. A., and Voigt, assignors.)
Stupar, Max., assignor to A. J. Elias, Buffalo, N. Y. Hoisting device for flying-machines. No. 1,346,772; July 13; v. 276; p. 347.
Sturgis Steel Go-Cart Co. (See Lindberg, Charles A., assignor.)
Sturk, Ernest E., Tuxedo Park, N. Y. Combination furniture. No. 1,347,417; July 20; v. 276; p. 533.
Sturm, Harry P., Clarksburg, W. Va. Multiple-intake manifold. No. 1,347,598; July 27; v. 276; p. 626.
Sudbury, Sherman E., Salt Lake City, Utah. Automatically-operated support. No. 1,346,773; July 13; v. 276; p. 347.
Sudul, John, Cleveland, Ohio. Bird-trap. No. 1,345,716; July 6; v. 276; p. 76.
Sumner, John B., Fort William, Ontario, Canada. Paper weight. No. 1,347,599; July 27; v. 276; p. 626.
Sundh, August, Hastinga-upon-Hudson, N. Y. Window-cleaning device. No. 1,346,348; July 13; v. 276; p. 263.
Sundh Electric Company. (See Larsen, Louis, assignor.)
Suren, Nathan H., Needham, Mass., assignor to The Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Time-controlled mechanism. No. 1,346,858; July 20; v. 276; p. 422.
Susslin, Adolph, New Orleans, La. Mail catching and delivering apparatus. No. 1,347,418; July 20; v. 276; p. 533.
Swan, William R., assignor to J. J. Woolverton, South Bend, Ind. Rust-preventing treatment. No. 1,346,473; July 13; v. 276; p. 288.
Swanson, August. Cedar Rapids, Iowa. Step-ladder. No. 1,347,600; July 27; v. 276; p. 626.
Swartz Electric Company. (See Thornburgh, John G., assignor.)
Sweely, Burton T. (See Bellamy, H. T., and Sweely.)
Sweetland, Hugh D., *et al.* (See Crick, Arthur, assignor.)
Swenson, Axel, Lyndhurst, N. J. Receptacle-cover. No. 1,347,419. July 20; v. 276; p. 534.
Swift, William S., New York, N. Y. Skate-scabbard attachment. No. 1,346,568; July 13; v. 276; p. 307.
Switzyk, John, Meota, Saskatchewan, Canada. Cattle-yoke. No. 1,346,278; July 13; v. 276; p. 260.
Sydeman, Abraham. (See Thoma, Andrew, assignor.)
Sztaray, Joseph, and L. Kovács, Bellaire, Ohio. Direction-signal. No. 1,347,420; July 20; v. 276; p. 534.
Taber, George H., assignor to Emco Manufacturing Company, Inc., Binghamton, N. Y. Device for refinishing axles, crank-shafts, &c. No. 1,345,809; July 6; v. 276; p. 95.
Tackabury, George W., *et al.* (See Baker, Elbridge, assignor.)
Tagliabue, Charles J., Manufacturing Co. (See Milker, Herbert P., assignor.)
Takacs, Joseph, Westville, Ill. Rail-joint. No. 1,348,067; July 27; v. 276; p. 720.
Taliaferro, John C., Baltimore, Md., and I. F. Warme, assignors to Continental Can Company, Incorporated, Syracuse, N. Y. Gang filling and closing machine. No. 1,346,618; July 13; v. 276; p. 315.
Tallman, Charles M., Delavan, Wis. Pipe-cleaner. No. 1,347,304; July 20; v. 276; p. 511.
Tarbell, H. J., *et al.* (See Bragdon, George W., assignor.)
Tarbell, P. H., *et al.* (See Bragdon, George W., assignor.)
Tarn, Thomas R., Brooklyn, N. Y. Screw-propelled chambered-stern towboat. No. 1,346,279; July 13; v. 276; p. 250.
Tarrant, Reuben W., London, England. Railway electric track-circuit system. No. 1,345,646; July 6; v. 276; p. 62.
Tate, John C., Oakland, Calif. Absorbing and purifying composition. No. 1,346,349; July 13; v. 276; p. 264.
Tatum, George M., Media, Pa. Rubber ball. No. 1,346,991; July 20; v. 276; p. 450.
Tatum, Samuel C., Company, The. (See Dom, Alexander, assignor.)
Taylor, Earl A., Buffalo, N. Y., assignor to Maxwell Motor Co., Inc., Detroit, Mich. Electrical welding process. No. 1,346,350; July 13; v. 276; p. 264.
Taylor, H. R., *et al.* (See Brown, Egbert B., assignor.)
Taylor, James O., Providence, R. I. Oil-gas burner. No. 1,346,391; July 13; v. 276; p. 271.
Taylor, Thomas E., assignor to The Eclipse Stove Company, Mansfield, Ohio. Combination coal and gas range. No. 1,347,601; July 27; v. 276; p. 626.
Taylor-Wharton Iron and Steel Company. (See Crook, A., and Chapman, assignors.)
Taylor, William G., Schnectady, N. Y., assignor to General Electric Company. Motor-control. No. 1,347,305; July 20; v. 276; p. 511.
Teegarden, Chester H., Washington, D. C. Receiving telegraph-signals. No. 1,346,614; July 13; v. 276; p. 315.
Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,346,142; July 13; v. 276; p. 222.
Teich, Ernest L., assignor to The American Hardware Corporation. New Britain, Conn. Fire-door lock. No. 1,346,143; July 13; v. 276; p. 223.
Temple, Fred W., Kalamazoo, Mich. Electrical indicators. No. 1,347,421; July 20; v. 276; p. 534.
Tenesch, Max M., Kelso, Calif. Air preheaters for furnaces. No. 1,346,992; July 20; v. 276; p. 450.
Tenney, Charles H. (See Burgi, Herman, assignor.)
Ternstedt Manufacturing Company. (See Gates, Louis W., assignor.)
Terry, Edward, London, England. Automatic valve. No. 1,346,921; July 20; v. 276; p. 435.
Teuscher, Adolph and O. T., Hillsdale, Oreg. Automobile-sander. No. 1,347,306; July 20; v. 276; p. 511.
Teuscher, Otto. (See Teuscher, Adolph and O.)
Textile Products Manufacturing Company. (See Meyer, Adolph E., assignor.)
Thayer, Marshall K., Edgemont, S. D. Vaporizer. No. 1,345,563; July 6; v. 276; p. 47.
Theberath, Joseph C., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,346,569; July 13; v. 276; p. 307.
Theberath, Joseph C., assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,347,602; July 27; v. 276; p. 626.
Thermoid Rubber Company. (See Stokes, Robert J., assignor.)
Thermokept Products Corporation. (See McColl, F. P., and Willison, assignors.)
Thibeault, Dello, Campello, assignor of one-half to A. J. Veilleux, Brockton, Mass. Automobile signal mechanism. No. 1,347,063; July 20; v. 276; p. 464.
Thibert, Napoleon R. (See Sawtell, William H., assignor.)
Thoma, Andrew, Cambridge, assignor to A. Sydeman, Boston, Mass. Coating fabrics. No. 1,346,615; July 13; v. 276; p. 315.
Thomas, August, assignor to E. A. Baltensperger, New York, N. Y. Apparatus for turning crank-pins on engine-shafts. No. 1,345,415; July 6; v. 276; p. 18.
Thomas, Edward G., Toledo, Ohio. Child's table utensil. No. 1,347,307; July 20; v. 276; p. 511.
Thomas, Edwin E., assignor to Thomas Engineering Works, Portland, Oreg. Nut-lock. No. 1,347,722; July 27; v. 276; p. 650.
Thomas, Emmet R., St. Paul, Minn. Boat and trunk combined. No. 1,345,416; July 6; v. 276; p. 18.
Thomas Engineering Works. (See Thomas, Edwin E., assignor.)
Thomas, George B., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. No. 1,345,717; July 6; v. 276; p. 77.
Thomas, George B., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric switch. No. 1,347,308; July 20; v. 276; p. 512.
Thomas, Harry A., assignor to M. Thomas, Pittsburgh, Pa. Sheet-metal construction. No. 1,347,190; July 20; v. 276; p. 488.
Thomas, Ivor D., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Oven-door-shifting mechanism. No. 1,346,474; July 13; v. 276; p. 288.
Thomas, John G. P., Barnes, England. Internal-combustion engine. No. 1,346,280; July 13; v. 276; p. 250.
Thomas, Margerie. (See Thomas, Harry A., assignor.)
Thomas, Theodore G., Houston, Tex. Truck. No. 1,345,564; July 6; v. 276; p. 47.
Thomas, Thomas H., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Car-door and brake control device. No. 1,346,859; July 20; v. 726; p. 422.
Thomisser, Joseph. (See Hoffman, C. M., and Thomisser.)
Thompson, Burchard D., Cyclone, Pa. Air-compressor. No. 1,345,973; July 6; v. 276; p. 128.
Thompson, Henry E., Newark, N. J. Awning device. No. 1,346,351; July 13; v. 276; p. 264.
Thompson, Herbert L., assignor to Elgin Gas Motor Company, Elgin, Ill. Carbureter. No. 1,345,516; July 6; v. 276; p. 37.
Thompson, Hugh L., Kansas City, Mo. Device for applying liquid coatings to elongated bodies. No. 1,346,726; July 13; v. 276; p. 338.
Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Obturating firing-pin. No. 1,345,565; July 6; v. 276; p. 47.
Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Tubular fuselage. No. 1,346,993; July 20; v. 276; p. 450.
Thompson, Nathaniel A., Kansas City, Kans., assignor to Rock Hill Paint and Cloth Company. Mineral paint-pigment. No. 1,347,191; July 20; v. 276; p. 488.
Thompson, William D., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,346,281; July 13; v. 276; p. 250.
Thomson, John, *et al.* (See Biette, Henry C., assignor.)
Thone, Frank H., Bingham Canyon, Utah. Signal. No. 1,346,994. July 20; v. 276; p. 450.
Thornburgh, John G., assignor to Swartz Electric Company, Indianapolis, Ind. Electric power system. No. 1,345,566; July 6; v. 276; p. 47.

Thorne, Herbert, Boxford, Mass. Sewing-machine attachment. No. 1,348,133; July 27; v. 276; p. 732.
Threewits, Alvin M., Centerville, Ind. Grain-drill. No. 1,345,517; July 6; v. 276; p. 37.
Tibbs, Joseph B., assignor of one-half to T. Tibbs, Tibbs, Miss. Cotton-picking machine. No. 1,346,282; July 13; v. 276; p. 251.
Tibbs, Thomas. (See Tibbs, Joseph B., assignor.)
Tice, Percival S., Detroit, Mich. Furnishing explosive mixture to internal-combustion engines. No. 1,348,066; July 27; v. 276; p. 720.
Tillyer, Edgar D. (See Bugbee, L. W., and Tillyer.)
Tillyer, Edgar D., and L. W. Bugbee, assignors to American Optical Company, Southbridge, Mass. Lens-grinder. No. 1,347,766; July 27; v. 276; p. 660.
Timmis, Albert H., Harrow, England. Sorting into lengths or dragging bristles, hair, and the like. No. 1,347,921; July 27; v. 276; p. 690.
Timosci, Antonio T., San Jose, Calif. Washboiler. No. 1,347,354; July 20; v. 276; p. 521.
Tin Decorating Company of Baltimore, The. (See Wilcox, Josiah T., assignor.)
Tinius Olsen Testing Machine Company. (See Malysheff, Alexander P., assignor.)
Tinsley, Clarence B., Cleveland, Ohio. Motorcycle-stand. No. 1,347,353; July 20; v. 276; p. 521.
Titan Co., A./S. (See Goldschmidt, Victor M., assignor.)
Titmus, Richard A. (See Witt, William H., assignor.)
Tittemore, Frank A. (See Murphy, Charles A., assignor.)
Toland, Ward J., Dannemora, N. Y. Directory. No. 1,346,995; July 20; v. 276; p. 450.
Toledo Scale Company. (See Berzen, Harry S., assignor.)
Tomec, John J., Trenton, N. J. Linoleum. No. 1,345,810; July 6; v. 276; p. 95.
Tomlinson, Arthur. (See Pilblad, E. J., and Tomlinson.)
Tonkin, George A., assignor of one-half to P. Evans, London, England. Machine for molding concrete or like blocks. No. 1,347,356; July 20; v. 276; p. 521.
Tonstad, Josephine, and H. Finsness, St. Paul, Minn. Flour-sifter. No. 1,347,064; July 20; v. 276; p. 464.
Toof, Franklin P., Paducah, Ky. Mop frame and handle coupling. No. 1,347,563; July 27; v. 276; p. 619.
Toro Motor Company. (See McCartney, Elmer B., assignor.)
Torris Wold & Company. (See Cameron, William, assignor.)
Toth, Steven, Los Angeles, Calif. Well-boring tool. No. 1,347,469; July 20; v. 276; p. 543.
Touchy, Frank E., Galveston, Tex. Speed-operated circuit-closer. No. 1,346,067; July 6; v. 276; p. 146.
Tourneur, Henri, Paris, France. Machine for making metal buttons. No. 1,347,235; July 20; v. 276; p. 496.
Towner, Leroy H., Muskogee, Okla. Attachment for earth-working machines. No. 1,346,432; July 13; v. 276; p. 280.
Townsend, Delbert G., assignor to Hartman-Townsend Co., Indianapolis, Ind. Automobile panel-curtain. No. 1,345,901; July 6; v. 276; p. 113.
Townsend, Layton W., assignor to H. A. Chilman, Hamilton, Ontario, Canada. Collapsible hanger. No. 1,346,922; July 20; v. 276; p. 436.
Toyo-Kagaku-Yakin-Kabushiki-Kaisha (The Oriental Chemical Metallurgic Company, Ltd.) (See Hisamoto, Junzo, assignor.)
Tracy, James J. (See Morse, L. H., and Tracy.) (Reissue.)
Travis, Clarence C. (See Antoine, A. D., and Travis.) (Reissue.)
Traylor, Wayne M. (See Ellis, Warren E., assignor.)
Treadwell, M. H. Company. (See Astrom, Carl P., assignor.)
Trease, Howard. (See Stoler, E. W., and Trease.)
Tregoning, William C., Cleveland, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical-plug connector. No. 1,346,860; July 20; v. 276; p. 423.
Treichel, Albert R., and E. J. Brock, St. Louis, Mo. Packing apparatus. No. 1,346,616; July 13; v. 276; p. 316.
Tremain, Charles. (See Becker, Robert A., assignor.)
Triggs, Kenneth F., Dayton, Ohio. Thermo safety-valve. No. 1,346,791; July 13; v. 276; p. 352.
Troutman, Dewey, Hawarden, Iowa. Ironing-board. No. 1,347,132; July 20; v. 276; p. 476.
Troy Laundry Machinery Company. (See Bartholomew, William, assignor.)
Troy Laundry Machinery Company. (See Hager, William R., assignor.)
Truffaut, Georges, Versailles, France. Product serving as a nitrifier, fertilizer, and insecticide. No. 1,347,798; July 27; v. 276; p. 666.
Truscott, Starr, Birmingham, Ohio. Ballonnet-gage. No. 1,345,417; July 6; v. 276; p. 18.
Tucker, E. P., *et al.* (See Baker, Elbridge, assignor.)
Tucker, Frederick D., *et al.*, trustees. (See Allen, J. M., Smith, and Tucker.)
Tucker, Leonard M., Seattle, Wash. Manually-propelled vehicle. No. 1,346,727; July 13; v. 276; p. 388.
Tucker, Melville E. A., New York, N. Y. Spring-motor. No. 1,347,603; July 27; v. 276; p. 627.
Tullis, John L., assignor of one-half to J. N. Riley, J. P. Brundidge, E. Greening, A. Betts, and H. Alphy, Hope, Ark. Cloth-measuring machine. No. 1,345,811; July 6; v. 276; p. 95.
Turbine Air Tool Company, The. (See Kraber, George L., assignor.)
Turner, Stanley S. (See Clark, Edward W., assignor.)
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure governor. No. 1,346,861; July 20; v. 276; p. 423.
Turner, William B., Ottawa, Ontario, Canada. Steering-wheel lock. No. 1,347,564; July 27; v. 276; p. 619.
Turner, William L., Atherstone, England. Manufacture of ferrochromium. No. 1,346,728; July 13; v. 276; p. 338.
Tutein, Joseph F., Crafton, Pa. Furnace construction. No. 1,345,652; July 6; v. 276; p. 63.
Tuttle, Lauren T., San Francisco, Calif. Commutator. No. 1,347,065; July 20; v. 276; p. 464.
Tweeddale, Daniel E., assignor of one-half to J. Chiodo, San Francisco, Calif. Button-fastener. No. 1,346,352; July 13; v. 276; p. 264.
Twentieth Century Brass Works. (See Wangelin, Ernest E., assignor.)
Twilley, Frederick J. (See Cuke, D. A., and Twilley.)
Twombly, Moses W. (See Hathaway, L. N., Twombly, and Hammond.)
Twyman, Frank, assignor to Adam Hilger, Limited, London, England. Apparatus for testing lenses. No. 1,347,133; July 20; v. 276; p. 477.
Tvedt, Thomas T., Brooklyn, N. Y. Muffler. No. 1,345,418; July 6; v. 276; p. 18.
Tygard, Harry L., Pittsburgh, and G. M. Hamilton, Oakmont, Pa. Fuel-control mechanism for internal-combustion engines. No. 1,347,192; July 20; v. 276; p. 488.
Typewriter Accessories Co. (See Simpson, James E., assignor.)
Tzibides, James N., New York, N. Y., and R. H. Parker, Winthrop, Mass.; said Parker assignor to said Tzibides. Sheet feeding and cutting mechanism. No. 1,347,134; July 20; v. 276; p. 477.
U. S. Light & Heat Corporation. (See Pennington, Harry R., assignor.)
U. S. Sanitary Products Corporation. (See Roark, Ruric C., assignor.)
U. S. Sanitary Specialties Corporation. (See Little, Robert H., assignor.)
U. S. Slicing Machine Company. (See van Berkel, Cornelis F. M., assignor.)
Ullman, Edgar B., E. B. Simmonds, and A. F. Atkinson, Muncie, Ind.; said Simmonds assignor to said Atkinson. Heat and vapor bath cabinet. No. 1,346,353; July 13; v. 276; p. 264.
Umphrey, Henry, Carleton Place, Ontario, Canada, assignor of one-third to E. D. B. Robertson and one-third to H. D. Humphrey, Ontario, Canada. Support for window-blind roller, curtain, valance, and the like. No. 1,346,354; July 13; v. 276; p. 264.
Underwood, Chester J., Elgin, Ill. Dental mirror. No. 1,345,718; July 6 v. 276; p. 77.
Underwood Computing Machine Company. (See Corell, Clifton B., assignor.)
Underwood Computing Machine Company. (See Degener, Gustave O., assignor.)
Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)
Underwood, Herman M., New York, N. Y. Wall service-bushing for vacuum cleaning and other systems. No. 1,347,236; July 20; v. 276; p. 497.
Underwood Typewriter Company. (See Hilsee, Charles M., assignor.)
Underwood Typewriter Company. (See Sokolov, Jacob, assignor.)
Underwood Typewriter Company. (See Wernery, Lester A., assignor.)
Underwood Typewriter Company. See White, William L., assignor.)
Union Special Machine Company. (See Hawley, De Forest, assignor.)
Union Switch & Signal Company, The. (See Fereday, Frederick T., assignor.)
Union Switch & Signal Company, The. (See Fisher, A. W., and Snavely, assignors.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
United Concrete Pipe Co. (See Bartram, George C., assignor.)
United Concrete Pipe Company. (See Peterson, Earl L., assignor.)
United Concrete Pipe Company. (See Scofield, Glenn M., assignor.)
United Shoe Machinery Corporation. (See Aston, Albert A., assignor.)
United Shoe Machinery Corporation. (See Ashton, Orrell, assignor.)
United Shoe Machinery Corporation. (See Bohanon, Budd D., assignor.)
United Shoe Machinery Corporation. (See Buckminster, Ira C.)
United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)
United Shoe Machinery Corporation. (See Perry, Frederick H., assignor.)
United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)
United Shoe Machinery Corporation. (See Russell, Arthur L., assignor.)

United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
United Shoe Machinery Corporation. (See Warren, George E., assignor.)
United States Cast Iron Pipe and Foundry Company. (See Ladd, James B., assignor.)
United States Ferro-Alloys Corporation. (See Sicard, Hugh C., assignor.)
United States Gauge Co. (See Place, Josiah W., assignor.)
United States, Government of the. (See Muir, Edward A., assignor.)
Universal Elevated Railway Comany. (See McClure, R. A., and Boulton, assignors.)
Universal Elevated Railway Company. (See Stevens, H. R., and Rockwell, assignors.)
Universal Engineering Company. (See Andrews, E. F., and Acre, assignors.)
Universal High-Power Telephone Co. (See Hackett, Paul J., assignor.)
Universal Oxygen Company. (See Mueller, Rudolph J. J., assignor.)
Universal Patents Company. (See Jennings, Victor H., assignor.)
Universal Winding Company. (See Foster, George W., assignor.)
Upp, John W., Schenectady, N. Y., assignor to General Electric Company. Paper receptacle. No. 1,347,309; July 20; v. 276; p. 512.
Uppercu, Inglis M., New York, N. Y. Valve mechanism. No. 1,346,617; July 13; v. 276; p. 316.
Utter, Leon L. (See Johnson, Stephen G., assignor.)
Vacuum Record Lifter. (See Menchen, Joseph, assignor.)
Vale, Alfred G. (See Williamson, J. E., Popken, and Vale.)
Valentine, Charles A., Buffalo, N. Y. Oil-burning device. No. 1,345,419; July 6; v. 276; p. 18.
Valk, Eugene E., Los Angeles, Calif., assignor to General Electric Company. Overload-relay. No. 1,347,767; July 27; v. 276; p. 660.
Valley Mould and Iron Corporation. (See Coates, Ray G., assignor.)
Van Alstyn, Albert T., Grand Rapids, Mich. Catamenial bandage. (Reissue.) No. 14,924; July 20; v. 276; p. 548.
Van Arsdale, George D., and C. G. Maier, New York, N. Y. Treatment of manganese ores. No. 1,348,068; July 27; v. 276; p. 720.
Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,346,996; July 20; v. 276; p. 450.
Van Berkel, Cornelius F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Feed-screw. No. 1,346,997; July 20; v. 276; p. 451.
Van Brunt, John, assignor to Combustion Engineering Corporation, New York, N. Y. Valve. No. 1,345,518; July 6; v. 276; p. 37.
Van Camp Packing Co., The. (See Lemon, Robert L., assignor.)
Van Fleet, Edwin W., assignor of one-half to D. Cozzolino, Los Angeles, Calif. Moving-picture theater. No. 1,348,069; July 27; v. 276; p. 720.
Van Keuren, Henry P., Lansing, Mich. Airplane. No. 1,346,570; July 13; v. 276; p. 307.
Van Meter, James W., Buenos Aires, Argentina. Animal exterminator. No. 1,347,310; July 20; v. 276; p. 512.
Van Sicklen Speedometer Company. (See Prouty, Theodore C., assignor.) (Reissue.)
Van Valkenburg, Peter, Otterville, Ontario, Canada. Music-leaf clip. No. 1,347,135; July 20; v. 276; p. 477.
Van Vleet, Charles W., assignor of three-eighths to J. T. Maxwell, Saugerties, N. Y., and one-eighth to H. S. Howland, Montclair, N. J. Match-boxing machine. No. 1,345,420; July 6; v. 276; p. 18.
Van Vleet, Charles W., and R. E. Haley, assignors of one-third to J. T. Maxwell, Saugerties, N. Y. Chassis. No. 1,345,421; July 6; v. 276; p. 19.
Vanblom, Albert, Rockford, Ill. Shoe-heel. No. 1,347,422; July 20; v. 276; p. 534.
Vandecar, Aaron, assignor to Colonial Machine Company, Inc., Syracuse, N. Y. Weighing-scale. No. 1,346,862; July 20; v. 276; p. 423.
Vandercar, William J., Cohoes, N. Y., assignor to Colonial Machine Company, Inc., Syracuse, N. Y. Advertising device for weighing-scales. No. 1,346,923; July 20; v. 276; p. 436.
Vanderlip, Louis C., Elkhart, Ind. Pneumatic conveyer. No. 1,346,144; July 13; v. 276; p. 223.
Vanderveer, Jean J., Brattleboro, Vt. Bookmark. No. 1,346,729; July 13; v. 276; p. 338.
Varland, Hiram H., Clark, S. D. Combined manure loader and spreader. No. 1,346,433; July 13; v. 276; p. 280.
Vass, Harry, Summit, N. J. Tractor-wheel. No. 1,346,145; July 13; v. 276; p. 223.
Vaudreuil, John, Milwaukee, Wis. Casing for dish-washing machine. No. 1,345,519; July 6; v. 276; p. 38.
Vaughan, William S., Newcastle-upon-Tyne, England. Crane. No. 1,346,068; July 6; v. 276; p. 146.
Vavra, Frank P., Cicero, Ill. Machine for coating blanks with paraffin. No. 1,345,719; July 6; v. 276; p. 77.
Vavra, Frank P., Cicero, Ill. Paraffin-coating machine. No. 1,345,720; July 6; v. 276; p. 77.
Veale, Thomas H., Camp Devens, Mass. Dental appliance. No. 1,346,998; July 20; v. 276; p. 451.
Veilleux, Alfred J. (See Thibeault, Dello, assignor.)
Veltung, Ernest, New York, N. Y., assignor to Veltung Steel Tire Company. Resilient-tire construction. No. 1,345,812; July 6; v. 276; p. 95.
Veltung Steel Tire Company. (See Veltung, Ernest, assignor.)
Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,346,990; July 20; v. 276; p. 451.
Ver Planck, William E., Erie, Pa., assignor to General Electric Company. Internal-combustion engine. No. 1,347,768; July 27; v. 276; p. 660.
Verey, Ernest. (See Cutler, C., and Morand, assignors.)
Vestine, Andrew O., Watertown, assignor to L. C. Chase & Company, Boston, Mass. Separable fastener. No. 1,347,604; July 27; v. 276; p. 627.
Vetter, Joseph, Toledo, Ohio. Automobile-top. No. 1,347,881; July 27; v. 276; p. 682.
Vibration Specialty Company. (See Akimoff, Nicholas W., assignor.)
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vickers Limited. (See Dawson, A. T., and Horne, assignors.)
Vickers Limited. (See Ellis, Giovanni E., assignor.)
Vickers Limited. (See Francis, Charles E., assignor.)
Viebrock, Carl H., and H. W., assignors of one-tenth to H. Planetz, Douglas, Wash. Nut-lock. No. 1,346,730; July 13; v. 276; p. 338.
Viebrock, Henry W. (See Viebrock, Carl H. and H. W.)
Vierling, Frank J., F. R. Bartholomew, and M. H. Smith, assignors to Sterling Specialties Manufacturing Company, Minneapolis, Minn. Egg-boiling rack. No. 1,346,283; July 13; v. 276; p. 251.
Villani, Angelo, Wilmington, Del. Sewing-needle. No. 1,345,422; July 6; v. 276; p. 19.
Vince, Joseph, Brooklyn, N. Y. Flash-light. No. 1,347,423; July 20; v. 276; p. 534.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Pump for motor-vehicles. No. 1,345,902; July 6; v. 276; p. 113.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,345,903; July 6; v. 276; p. 114.
Violet, Marcel A., Levallois-Perret, France. Multicylinder two-stroke motor. No. 1,346,069; July 6; v. 276; p. 147.
Vivarttas, William O., Weehawken, N. J. Compressed-air-pipe coupling. No. 1,345,520; July 6; v. 276; p. 38.
Vogelzang, Frank, Rock Valley, Iowa. Fuel-pipe lock device. No. 1,346,774; July 13; v. 276; p. 348.
Vogelzang, Frank, Rock Valley, Iowa. Advertising device. No. 1,346,775; July 13; v. 276; p. 348.
Vogt, Axel S., Philadelphia, Pa. Weighing-scale. No. 1,347,605; July 27; v. 276; p. 627.
Voigt, Arthur H. (See White, Frank A., assignor.)
Voigt, Johnston C. (See Scott, J. A., and Voigt.)
Voith, J. M., Company. (See Storrer, Hermann F., assignor.)
Vold, Ole G., Forest City, Iowa. Seed-corn cabinet and drier. No. 1,346,070; July 6; v. 276; p. 147.
Vold, Ole G., Forest City, Iowa. Speed-control device. No. 1,346,071; July 6; v. 276; p. 147.
Von Heyst, Floris A. (See Schoute, C., von Heyst, and Meyer.)
Von der Weid, Charles. (See Pattay, M., and Jaquemot, assignors.)
Vuia, Trajan, Garches, France. Propelling, tractive, and supporting apparatus. No. 1,347,424; July 20; v. 276; p. 535.
Vuono, Giuseppi P., Brooklyn, N. Y. Silk-finishing machine. No. 1,347,066; July 20; v. 276; p. 464.
Waddington, Edward C., Woodstown, N. J. Combined cutter and scraper. No. 1,347,237; July 20; v. 276; p. 497.
Wade, John, St. Paul, and S. J. Markin and H. A. Du Prey, Minneapolis, Minn.; said Markin assignor to said Wade and said Du Prey. Door opening and closing device. No. 1,347,193; July 20; v. 276; p. 488.
Wadsworth, Frank L. O., Pittsburgh, Pa. Method and apparatus for the manufacture of pressed-sheet-glass products. No. 1,346,571; July 13; v. 276; p. 307.
Wadsworth, Howard L., Cleveland, Ohio. Sand-cutting machine. No. 1,345,521; July 6; v. 276; p. 38.
Waggoner, Claude M., assignor of one-half to I. B. Potter, Riverside, Calif. Ladder. No. 1,346,518; July 13; v. 276; p. 297.
Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)
Wagner, Rudolf E., assignor to Aktiebolaget Karlstads Mekaniska Verkstad, Karlstad, Sweden. Process of and means for removing water from the pulp sheet in the wood-pulp and cellulose manufacture. No. 1,347,725; July 27; v. 276; p. 651.
Wagner, Rudolf E., assignor to Aktiebolaget Karlstads Mekaniska Verkstad, Karlstad, Sweden. Apparatus for extracting water from wood-pulp and the like. No. 1,347,724; July 27; v. 276; p. 651.
Wahnsiedler, Charles G., Evansville, Ind. Geared, adjustable, pipe-threading device. No. 1,345,567; July 6; v. 276; p. 47.
Waidlé, Petar, Pleasant Unity, Pa. Tire-pump. No. 1,346,284; July 13; v. 276; p. 251.
Wald, Julius H., Chicago, Ill. Kettle-drainer. No. 1,346,355; July 13; v. 276; p. 264.

Waldo Brothers, Incorporated. (See Waldo, Charles S., assignor.)
Waldo, Charles S., Brookline, assignor to Waldo Brothers, Incorporated, Boston, Mass. Sectional wooden pipe-covering. No. 1,345,423; July 6; v. 276; p. 19.
Waldref, Grant. (See Mason, Charles E., assignor.)
Walker, Emery L., Milwaukee, Wis. Sealing-machine. No. 1,346,072; July 6; v. 276; p. 147.
Walker, Joseph, Canonsburg, Pa. Tire-retaining demountable rim. No. 1,345,522; July 6; v. 276; p. 38.
Walker Manufacturing Company. (See Mizer, J. J., and Jacob, assignors.)
Walker, Moses F., Cadiz, Ohio. Motion-picture-film reel. No. 1,345,813; July 6; v. 276; p. 95.
Walker, Stoughton L., and J. M. Lawrenson, Jersey Shore, Pa. Collapsible container. No. 1,346,731; July 13; v. 276; p. 339.
Walker, Thomas H., Wallace, Idaho. Current-motor. No. 1,346,285; July 13; v. 276; p. 251.
Wallace, Halbert C., Kansas City, Mo. Straw-spreading mechanism. No. 1,347,606; July 27; v. 276; p. 627.
Wallace, William H., Newark, N. J. Spark-plug cleaner, tester, and adjuster. No. 1,345,721; July 6; v. 276; p. 77.
Wallem, Axel B., Cynwyd, Pa., assignor, by mesne assignments, to H. S. B. W. Cochrane Corporation, Philadelphia, Pa. Steam-trap. No. 1,347,607; July 27; v. 276; p. 627.
Wallenstein, Leo, Brooklyn, N. Y. Stencil. No. 1,345,653; July 6; v. 276; p. 63.
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Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. No. 1,346,863; July 20; v. 276; p. 424.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. No. 1,346,864; July 20; v. 276; p. 424.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. No. 1,346,865; July 20; v. 276; p. 424.
Walz, Charles F., and F. D. Morris, assignors, by mesne assignments, to National Metal Edge Box Company, Philadelphia, Pa. Box-staying machine. No. 1,346,573; July 13; v. 276; p. 308.
Wangelin, Ernest E., assignor to Twentieth Century Brass Works, Belleville, Ill. Drinking-faucet. No. 1,347,566; July 27; v. 276; p. 619.
Wanner, George D., Dayton, Ohio. Kite. No. 1,347,565; July 27; v. 276; p. 619.
Ward, Arthur J., Duluth, Minn. Receptacle. No. 1,345,568; July 6; v. 276; p. 48.
Ward Leonard Electric Co. (See Kebler, Leonard, assignor.)
Ward Pump Company. (See Johnson, O. W., and Milne, assignors.)
Ward, Wallace E. (See Ingle, A. H., and Ward.)
Warga, Kalman, assignor to Metallograph Corporation, New York, N. Y. Decorating metal surfaces. No. 1,346,475; July 13; v. 276; p. 288.
Warme, Ivar F. (See Taliaferro, J. C., and Warme.)
Warne, Frederick C., Mansfield, Ohio. Lock-nut. (Reissue.) No. 14,928; July 27; v. 276; p. 736.
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Warren, George E., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe. No. 1,346,146; July 13; v. 276; p. 223.
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Warren, William F., Shelburn, Ind. Automobile-pump. No. 1,346,866; July 20; v. 276; p. 424.
Wasastjer, Paul C., *et al.* (See Biette, Henry C., assignor.)
Waseneka, Henry W., Collinsville, Ill. Vacuum-cleaning brush. No. 1,345,424; July 6; v. 276; p. 19.
Washburn, Edwin C., Englewood, assignor of one-third to R. S. Blair, South Orange, N. J. Apparatus and art for handling coal and the like. No. 1,347,000; July 20; v. 276; p. 451.
Washburn, Howard L., assignor to C. S. Ballard, assignee, Springfield, Mass. Universal joints. No. 1,346,776; July 13; v. 276; p. 348.
Washington, Bowden. (See Cutting, F., and Washington.)
Washington, Elwood, Hammond, Ind. Vacuum-cabinet. No. 1,347,194; July 20; v. 276; p. 488.
Wasserlein, Froes Company. (See Wasserlein, Victor E., assignor.)
Wasserlein, Victor E., New York, N. Y., assignor to Wasserlein, Froes Company, Inc. Carbureter needle-valve. No. 1,347,922; July 27; v. 276; p. 690.
Waszkiewicz, Stanley, Passaic, N. J. Drier. No. 1,345,523; July 6; v. 276; p. 38.
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Waterhouse, Leslie V., Queenstown, Tasmania, Australia. Apparatus for the treatment of sulfid ores. No. 1,346,286; July 13; v. 276; p. 251.
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Watling, Arthur J. (See Ponting, H. W., and Watling.)
Watrous, Agnes B., executrix. (See Watrous, Edward L.)
Watrous, Edward L., deceased, El Paso, Tex., A. B. Watrous, executrix. Method and apparatus for coating pipes, bars, angles, and the like. No. 1,346,618; July 13; v. 276; p. 316.
Watson, Alexander, Atlantic, assignor of one-half to W. G. Mitchell, Malden, Mass. Terminal for pneumatic-despatch-tube systems. No. 1,347,136; July 20; v. 276; p. 477.
Watson, Grover C., Mineral Wells, Tex. Paint. No. 1,347,311; July 20; v. 276; p. 512.
Watson, John W., Wayne, Pa. Motion-controlling mechanism. No. 1,345,814; July 6; v. 276; p. 95.
Watts, Eldorus B., Alcester, S. D. Road-guide. No. 1,345,974; July 6; v. 276; p. 128.
Way, Clifford M., Des Moines, Iowa. Screen. No. 1,345,569; July 6; v. 276; p. 48.
Way, Holroyd F., Oregon City, Oreg. Incandescent-lamp-protecting device. No. 1,345,466; July 6; v. 276; p. 27.
Way, John H., Philadelphia, Pa. Hinge. No. 1,345,524; July 6; v. 276; p. 39.
Weant, Clarence H., Baltimore, Md. Printing-press chase. No. 1,347,312; July 20; v. 276; p. 512.
Weathersby, John R., Middlesex, N. C. Farm-level. No. 1,346,619; July 13; v. 276; p. 316.
Weaver, James H., Aberdeen, Wash. Jar-holder. No. 1,346,732; July 13; v. 276; p. 339.
Weaver, Robert R., Columbus, Ohio. Manufacture of jaws for brake-rod connections. No. 1,347,137; July 20; v. 276; p. 477.
Webb, Benjamin F. (See Karl, A. J., and Webb.)
Weber, John, Philadelphia, Pa. Musical instrument. No. 1,347,977; July 27; v. 276; p. 701.
Weber, John B., Union Hill, N. J., assignor to The Osborne Company, Newark, N. J. Calendar-head. No. 1,347,882; July 27; v. 276; p. 683.
Webster, Edgar P., Bridgeport, Conn. Wheel-hub. No. 1,345,648; July 6; v. 276; p. 62.
Webster, Edgar P., Bridgeport, Conn. Universal-roller-bearing. No. 1,346,147; July 13; v. 276; p. 223.
Webster, Emmett S. (See Smith, C. L., and Webster.)
Webster, G. W., *et al.* (See Price, James W. assignor.)
Webster, Hyleman A., Columbia, Tenn. Producing pyrophosphates. No. 1,346,148; July 13; v. 276; p. 224.
Webster, S. S., *et al.* (See Price, James W., assignor.)
Wecht, Charles L., Logansport, Ind. Toy swinging chair. No. 1,346,620; July 13; v. 276; p. 317.
Wedein, August, and J. P. Stevens, Mason City, Iowa. Shoe-heel. No. 1,347,883; July 27; v. 276; p. 683.
Weeks, Frank A., Plainfield, N. J. Inkstand. No. 1,347,527; July 27; v. 276; p. 611.
Wegner, Paul F. (See Bombardie, C. H., and Wegner.)
Wehr, Rudolph, New York, N. Y. Rotary valve. No. 1,347,978; July 27; v. 276; p. 701.
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Weibull, Nils R. M., Bofors, Sweden. Stop or set screw. No. 1,346,867; July 20; v. 276; p. 425.
Weinstein, Louis J., New York, N. Y. Paralleling device. No. 1,345,815; July 6; v. 276; p. 96.
Weis, John P., assignor to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Sweat-band for hats. No. 1,347,528; July 27; v. 276; p. 611.
Weisgerber, Edwin C., U. S. Army. Fuse-plug. No. 1,346,574; July 13; v. 276; p. 308.
Weiss, André. Lyon, assignor to Societe Chimique des Usines du Rhone, Anciennement Gilliard P. Monnet et Cartier, Paris, France. Manufacture of oxyaldehydes and their ethers. No. 1,345,649; July 6; v. 276; p. 62.
Weiss, George W., New York, N. Y. Machine for making hat-linings. No. 1,347,001; July 20; v. 276; p. 451.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Fireproofing wood. No. 1,346,287; July 13; v. 276; p. 251.
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Weiss, Leo A., Cleveland, Ohio. Chain-repair link. No. 1,347,725; July 27; v. 276; p. 651.
Wietecha, Josef, assignor to N. Nigbor, Detroit, Mich. Toy. No. 1,347,238; July 20; v. 276; p. 497.
Weith, Archie J. (See Redman, L. V., Weith, and Brock.)
Weitzel, Henry C., Baltimore, Md. Side dumping wagon. No. 1,346,575; July 13; v. 276; p. 308.
Welch, Jesse C., Tacoma, Wash. Amusement device. No. 1,346,576; July 13; v. 276; p. 308.
Welch, William H. (See Colvin, Shady D., assignor.)
Weller, Charles, Zurich, Switzerland. Workshop ventilation. No. 1,347,195; July 20; v. 276; p. 488.
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Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Oil-refining apparatus. No. 1,347,567; July 27; v. 276; p. 620.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Cracking hydrocarbons. No. 1,347,568; July 27; v. 276; p. 620.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Refining oil. No. 1,347,664; July 27; v. 276; p. 638.
Wellman-Seaver-Morgan Company, The. (See Thomas, Ivor D., assignor.)
Wells, Frank O., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Tap. No. 1,345,425; July 6; v. 276; p. 19.

Wells, Harold D., Glens Falls, N. Y. Screening or filtering apparatus. No. 1,346,690; July 13; v. 276; p. 331.
Welsh, Charles R. (See Reeler, John M., assignor.)
Welton, Harry A., Detroit, Mich., assignor to Morgan & Wright. Attachment for rubber-mixing mills. No. 1,345,426; July 6; v. 276; p. 20.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Automatic reel-threading device. No. 1,346,356; July 13; v. 276; p. 265.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Variable-speed mechanism. No. 1,346,357; July 13; v. 276; p. 265.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Signal device for kinetoscopes. No. 1,346,358; July 13; v. 276; p. 265.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Projection-lamp house. No. 1,346,359; July 13; v. 276; p. 265.
Wenger, Solomon B., South English, Iowa. Drinking-fountain and feeder for poultry. No. 1,347,425; July 20; v. 276; p. 535.
Wents, Earle J., Gaffney, S. C., assignor to Hopedale Manufacturing Company, Milford, Mass. Feeler-loom. No. 1,347,726; July 27; v. 276; p. 651.
Werner, Carl H., Waterloo, Iowa. Wire-clamp-fastening means. No. 1,347,196; July 20; v. 276; p. 489.
Werner, Ernest E., St. Louis, Mo. Treating straw and the like for making paper-pulp. No. 1,347,079; July 27; v. 276; p. 701.
Wernery, Lester A., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,347,197; July 20; v. 276; p. 489.
Wessels, Bernhardt L., Woodhaven, N. Y. Wire-fence anchoring and supporting stake. No. 1,345,650; July 6; v. 276; p. 62.
West Coast Roofing and Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)
Westerbeck, Frederick, St. Louis, Mo. Sheet-metal can. No. 1,347,665; July 27; v. 276; p. 639.
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Western Electric Company. (See Hazard, Allen B., assignor.)
Western Electric Company. (See Hosford, William F., assignor.)
Western Electric Company. (See Mortimer, Louis A., assignor.)
Western Electric Company. (See Polinkowsky, Lipa, assignor.)
Western Electric Company Incorporated. (See Bellamy, H. T., and Sweely, assignors.)
Western Vulcanizer Manufacturing Company. (See Fontaine, Walter R., assignor.)
Westinghouse Air Brake Company. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
Westinghouse Electric and Manufacturing Company. (See Bright, G., Holy, and Hardcastle, assignors.)
Westinghouse Electric and Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Coulson, John, assignor.)
Westinghouse Electric and Manufacturing Company. (See Du Pasquier, A., and Slater, assignors.)
Westinghouse Electric and Manufacturing Company. (See Eaton, George M., assignor.)
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Westinghouse Electric and Manufacturing Company. (See Kronfeld, Gustav L. S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lovell, William V., assignor.)
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Westinghouse Electric and Manufacturing Company. (See Starker, C. W., and Hodgkins, assignors.)
Westinghouse Electric and Manufacturing Company. (See Whittaker, Charles C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Wurts, Thomas C., assignor.)
Weston, Louis B. (See Collins, J. F., and Weston.)
Wheeler, Henry J., Buffalo, N. Y. Machine for trimming the ends of articles. No. 1,346,288; July 13; v. 276; p. 252.
Wherry, John A., New Orleans, La. Fishing-reel. No. 1,347,529; July 27; v. 276; p. 611.
Whitaker, Fletcher W., Memphis, Tenn. Tractor-wheel. No. 1,348,070; July 27; v. 276; p. 720.
Whitaker, Richard, Jr., assignor to Manufacturers Iron & Steel Company, New Brunswick, N. J. Pliers. No. 1,346,392; July 13; v. 276; p. 271.
Whitaker, Samuel T., assignor of fifty-one per cent to R. B. Small, Columbus, Ga. Bottle-closure attachment. No. 1,346,621; July 13; v. 276; p. 317.
Whitbeck, John E., Rochester, N. Y. Radiator. No. 1,346,577; July 13; v. 276; p. 309.
Whitcomb, Russell. (See Goertz, F., and Whitcomb.)
White, Charles E., Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y. Luminous marking device. No. 1,346,360; July 13; v. 276; p. 266.
White, Earl D., Delta, Colo. Tire-pressure gage. No. 1,345,570; July 6; v. 276; p. 48.
White, Frank A., assignor of one-half to A. H. Voigt, Cleveland, Ohio. Machine for dispensing ice-cream. No. 1,347,727; July 27; v. 276; p. 652.
White, Frank C., Meriden, Conn. Phonograph-cabinet. No. 1,347,067; July 20; v. 276; p. 465.
White, Frank D., Akron, Ohio. Sectional chimney. No. 1,347,980; July 27; v. 276; p. 702.
White, Geo. E. (See Martin, W. A., and Roebuck, assignors.)
White, Otis, Springfield, and H. W. Young, Chicago, assignors to Sangamo Electric Company, Springfield, Ill. Graphic recording instrument. No. 1,347,884; July 27; v. 276; p. 683.
White, S. S., Dental Manufacturing Company, The. (See Glenn, Thomas F., assignor.)
White, William B., Des Moines, Iowa. Combination pencil-clip and spectacle-holder. No. 1,346,777; July 13; v. 276; p. 348.
White, William L., Birmingham, Ala., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter tabulator device. No. 1,345,467; July 6; v. 276; p. 28.
White, William P., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Sealing-closure for containers. No. 1,345,722; July 6; v. 276; p. 77.
Whitelaw, James, St. Louis, Mo., and G. T. May, Jr., Chicago, Ill. Sewing-machine looper. No. 1,347,313; July 20; v. 276; p. 512.
Whiter, Edward T., Pittsburgh, Pa. Shirt attachment. No. 1,346,733; July 13; v. 276; p. 339.
Whitney Mfg. Co., The. (See Müller, Friederich, assignor.)
Whiting Foundry Equipment Company. (See McDougall, Andrew H., assignor.)
Whittaker, Charles C., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,347,880; July 27; v. 276; p. 682.
Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Motor-vehicle. No. 1,346,149; July 13; v. 276; p. 224.
Wiberg, Charles A., Duluth, Minn. Shock-absorber. No. 1,347,138; July 20; v. 276; p. 478.
Wilber, Le Roy G., Sequin, Wash. Valve. No. 1,346,289; July 13; v. 276; p. 252.
Wilcox, Frederick A., and E. L. McGrory, Spokane, Wash. Coffee-grinding machine. No. 1,347,608; July 27; v. 276; p. 628.
Wilcox, Josiah T., Westfield, N. J., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top for containers. No. 1,345,975; July 6; v. 276; p. 128.
Wild, Alfred. (See Meinecke, A. K., and Wild.)
Wilder, Henry S., Newton, Mass. Keyboard for practicing and teaching the playing of the piano. No. 1,347,068; July 20; v. 276; p. 465.
Wilder, Laurence R. (See Hilty, Frederick, assignor.)
Wilder-Strong Implement Company. (See Stoner, Frank H., assignor.)
Wile, Raymond S., New York, N. Y. Electrical furnace. No. 1,345,976; July 6; v. 276; p. 128.
Wilfley, Arthur R., Denver, Colo. Centrifugal pump. No. 1,346,924; July 20; v. 276; p. 436.
Wilfley, Arthur R., Denver, Colo. Standpipe connection for centrifugal pumps. No. 1,346,925; July 20; v. 276; p. 436.
Wilfley, Arthur R., Denver, Colo. Centrifugal pump. No. 1,346,926; July 20; v. 276; p. 436.
Wilgus, Harold J., Canton, Ohio. Valve-stem tool. No. 1,345,651; July 6; v. 276; p. 63.
Wilkins, Frederick F., assignor to B. E. Johnson, London, England. Lock or bolt for doors and the like. No. 1,347,799; July 27; v. 276; p. 666.
Wilkinson, Herbert T. (See Wilkinson, Thomas F., assignor.)
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Casing for electrical apparatus. No. 1,347,769; July 27; v. 276; p. 661.
Wilkinson, Thomas F., assignor of one-half to H. T. Wilkinson, Manchester, England. Separating or grading apparatus. No. 1,347,314; July 20; v. 276; p. 518.
Will & Baumer Company, The. (See Rosenberger, William, assignor.)
Willard, Arthur M., Chicago, Ill. Seal-press. No. 1,346,150; July 13; v. 276; p. 224.
Willett, Benedict E., near Dayton, Ohio. Display-rack. No. 1,345,525; July 6; v. 276; p. 39.

Williams, Frank C., Philadelphia, Pa., assignor to The Safety Block Signal Company. Automatic train controlling and stopping mechanism. No. 1,345,816; July 6; v. 276; p. 96.

Williams, Frank L., Detroit, Mich. Pedal extension. No. 1,346,361; July 13; v. 276; p. 286.

Williams, Frank W. (See Parnall, Archie E., assignor.)

Williams, George W., Morris, Ill. Spreader. No. 1,345,427; July 6; v. 276; p. 20.

Williams, Henry C. York, Pa. Coin-controlled apparatus for renting umbrellas. No. 1,347,831; July 27; v. 276; p. 672.

Williams, J. H., Company. (See Spencer, Philip, assignor.)

Williams, John C., Warwood, W. Va. Awning-roller support. No. 1,346,622; July 13; v. 276; p. 317.

Williams, John M., and V. E. Smith, Harlem, Mont. Mail-bag catcher. No. 1,346,071; July 27; v. 276; p. 721.

Williams Patent Crusher & Pulverizer Co. (See Halsted, Harold M., assignor.) (Reissue.)

Williams, Richard W. (See Keith, J. W., and Williams.)

Williams, Rowland T. D. (See Avery, D., and Williams.)

Williams, Roy O., Columbus, Ohio. Welder's tool. No. 1,345,817; July 6; v. 276; p. 96.

Williams, Stanley E., San Francisco, Calif. Draftingboard. No. 1,347,426; July 20; v. 276; p. 535.

Williams, Ward G., Brandon, Wis. Internal-combustion engine. No. 1,345,728; July 6; v. 276; p. 78.

Williams, William E., Chicago, Ill., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Making tire-casings. No. 1,346,623; July 13; v. 276; p. 317.

Williamson, John E., Yonkers, and H. F. Popken and A. G. Vale, New York, N. Y., assignors to American Tobacco Company. Packaging tobacco products. No. 1,347,530; July 27; v. 276; p. 611.

Williamson, Romeo L., Mount Vernon, Ohio. Power-transmission mechanism. No. 1,347,315; July 20; v. 276; p. 513.

Willinger, Max, New York, N. Y. Phonographic-record-album signature. No. 1,345,724; July 6; v. 276; p. 78.

Willis, Fred V., Oswego, Ill. Liquid-elevating apparatus. No. 1,345,725; July 6; v. 276; p. 78.

Willison, Walter W. (See McColl, F. P. M., and Willison.)

Willner, Sigmund, assignor to W. Dederich, London, England. Accumulator electrode-grid. No. 1,347,770; July 27; v. 276; p. 661.

Wills, Edwin C., Frederick, Md. Method and apparatus for molding or casting articles or ingots from molten metal. No. 1,347,728; July 27; v. 276; p. 652.

Willys-Overland Company, The. (See McKinley, Charles W., assignor.)

Wilson, Christopher R., Philadelphia, Pa. Aeroplane. No. 1,345,726; July 6; v. 276; p. 78.

Wilson, Kirke R., Buffalo, N. Y. Arbor-press. No. 1,346,868; July 20; v. 276; p. 425.

Wilson, Lawrence W., Burlington, Iowa. Tie-plug machine. No. 1,348,126; July 27; v. 276; p. 731.

Wilson, Louie G., Morning Sun, Iowa. Automonocycle. No. 1,345,727; July 6; v. 276; p. 78.

Wilson, William T., Bush, Ill. Railway-tie. No. 1,347,427; July 20; v. 276; p. 535.

Wiltshire, James D. (See Friez, G. E. and Wiltshire.)

Winchester Repeating Arms Co. (See Hannum, Harry A., assignor.)

Windsor, Walter E., Baltimore, Md. Bolt-fastening. No. 1,346,578; July 13; v. 276; p. 309.

Wingquist, Sven G., and B. W. Fjellman, assignors to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Machine for grinding conical rollers. No. 1,345,468; July 6; v. 276; p. 28.

Winn, Sidney B., assignor to Lapeer Tractor Truck Company, Lapeer, Mich. Trailer. No. 1,346,927; July 20; v. 276; p. 437.

Winning, John F. F. (See Baumann, K., Guy, and Winning.)

Winstein, Max, Montreal, Quebec, Canada. Mattress-guard. No. 1,346,579; July 13; v. 276; p. 309.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,346,519; July 13; v. 276; p. 297.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,346,520; July 13; v. 276; p. 297.

Winter, George F., Los Angeles, Calif. Safety-gate. No. 1,347,198; July 20; v. 276; p. 489.

Winter, Nelson R., Frostburg, Md. Corner rack and shelf. No. 1,345,977; July 6; v. 276; p. 129.

Winter, William G., and H. I. Finch, assignors to The Emerson Electric Manufacturing Company, St. Louis, Mo. Oscillating mechanism for electric fans. No. 1,347,981; July 27; v. 276; p. 702.

Winters, David L., Edgewater, Md. Choke-valve. No. 1,347,199; July 20; v. 276; p. 489.

Winters, Harry E., *et al.* (See Howes, Willis E., assignor.)

Wirebounds Patents Company. (See Bombardie, C. H., and Wagner, assignors.)

Wirt, Paul E., Bloomsburg, Pa. Fountain-pen. No. 1,347,800; July 27; v. 276; p. 666.

Wishart, James B., Trenton, N. J. Sponge-rubber article and making same. No. 1,345,904; July 6; v. 276; p. 114.

Wiski, Joseph, assignor of one-half to J. Olesiak, Milwaukee, Wis. Envelop. No. 1,347,609; July 27; v. 276; p. 628.

Witt, Frederick C., Roanoke, Va. Link-chain. No. 1,345,818; July 6; v. 276; p. 96.

Witt, William H., assignor of one-half to R. A. Titmus, Petersburg, Va. Clothespin. No. 1,347,429; July 20; v. 276; p. 535.

Wittekind, Arnold F., Trenton, N. J. Cooking utensil. No. 1,347,428; July 20; v. 276; p. 535.

Wolfe, Allan S., Washington, D. C. Composition for cleansing artificial dentures and the like. No. 1,345,819; July 6; v. 276; p. 96.

Wolfe, Everett K., Westchester, N. Y. Wire-protector for nursing-bottles. No. 1,345,654; July 6; v. 276; p. 63.

Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,345,428; July 6; v. 276; p. 30.

Wollenhaupt, Justus J. (See Doyle, W. J., and Wollenhaupt.)

Wood, Albert B., New Orleans, La. Screw-pump. No. 1,345,655; July 6; v. 276; p. 63.

Wood, Frank J., Brooklyn, assignor to Worcester Salt Company, New York, N. Y. Purifying salt. No. 1,346,624; July 13; v. 276; p. 317.

Wood, Guilford S., Chicago, Ill. Truck. No. 1,345,469; July 6; v. 276; p. 28.

Wood, Guilford S., Chicago, Ill. Removable truck-nose. No. 1,345,470; July 6; v. 276; p. 28.

Wood, Montraville M., Berwyn, Ill. String message-holder for wireless or other telegraph mechanism. No. 1,346,476; July 13; v. 276; p. 288.

Wood, Robert W., Baltimore, Md. Flash-telescope. No. 1,346,520; July 13; v. 276; p. 309.

Woodhouse, George, Butte, Mont. Pen or pencil clip. No. 1,346,393; July 13; v. 276; p. 271.

Woodruff, Albert N., New York, N. Y. Copy-holder. No. 1,345,978; July 6; v. 276; p. 129.

Woodruff, William D., Belton, Tex. Crate. No. 1,347,923; July 27; v. 276; p. 690.

Woodin, William H. (See Gibbs, Frederick H., assignor.)

Woodward, Esther A. (See Woodward, Frederick P., assignor.)

Woodward, Frederick P., Topsfield, assignor of one-half to E. A. Woodward, Boston, Mass. Resilient inner tube for vehicle-tires. No. 1,346,290; July 13; v. 276; p. 252.

Woodward, Robert S., Jr., Philadelphia, Pa. Power-transmitting apparatus. No. 1,346,625; July 13; v. 276; p. 318.

Woolford, Albert T. (See Propert, T. G., and Brown, assignors.)

Woolverton, John J. (See Swan, William R., assignor.)

Worcester Salt Company. (See Wood, Frank J., assignor.)

World Gas Engine Company, The. (See Shepard, Wilbur L., assignor.)

Wornstaff, Richard A., Weldon, Iowa. Combination motor-vehicles. No. 1,346,778; July 13; v. 276; p. 349.

Worster, Arthur E., Vancouver, British Columbia, Canada. Apparatus for sealing preserving-jars. No. 1,346,434; July 13; v. 276; p. 280.

Worster, Arthur E., Vancouver, British Columbia, Canada. Preserving-jar. No. 1,346,435; July 13; v. 276; p. 280.

Worthington, Charles C., Dunfield, N. J., assignor to Shawnee Mower Company, New York, N. Y. Lawn-mower. No. 1,347,569; July 27; v. 276; p. 620.

Wray, Charles C. (See Caley, E. C., and Wray.)

Wride, George T., Los Angeles, Calif. Writing-ranger. No. 1,347,729; July 27; v. 276; p. 652.

Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Rotary drilling-machine. No. 1,347,771; July 27; v. 276; p. 661.

Wright, Isaac H., assignor to Smith & Coventry Limited, Manchester, England. Machine for forming grooves or flutes in twist-drills and the like. No. 1,346,928; July 20; v. 276; p. 437.

Wright, Isaac H., assignor to Smith and Coventry Limited, Salford, England. Speed-change gear. No. 1,347,924; July 27; v. 276; p. 691.

Wright, John C., Syracuse, N. Y. Guard for metal pails. No. 1,347,357; July 20; v. 276; p. 521.

Wright, Loyd E., *et al.* (See Shields, George F., assignor.)

Wright, Solomon, Jr., Montclair, N. J., assignor to Wright Underwear Company, Inc., New York, N. Y. Undergarment. No. 1,345,728; July 6; v. 276; p. 79.

Wright Underwear Company, Inc. (See Wright, Solomon, Jr., assignor.)

Wulf, Charles A., Indianapolis, Ind. Flushing system. No. 1,346,362; July 13; v. 276; p. 266.

Wurts, Thomas C., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,347,885; July 27; v. 276; p. 683.

Yancey, William F., Portsmouth, Va. Trolley-finder. No. 1,347,229; July 20; v. 276; p. 497.

Yanochowski, George A., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,347,069; July 20; v. 276; p. 465.

Yates, Charles E., Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Pipe-coupling. No. 1,345,571; July 6; v. 276; p. 48.

Yelle, Adolphe, Chenneville, Quebec, Canada. Canoe. No. 1,346,869; July 20; v. 276; p. 425.

York, Aaron L., Jr., Liberty, N. C. Extension-moldboard. No. 1,346,363; July 13; v. 276; p. 266.

York, Oscar M., Millington, Mich. Sheep-feeding rack. No. 1,347,070; July 20; v. 276; p. 465.

York, William M. (See Fisher, R. E., and York.)

Yost, Willis K., Little Rock, Ark. Load-carrier for automobiles. No. 1,346,581; July 13; v. 276; p. 309.

Young, Andrew E. (See Hamrick, Martin D., assignor.)

Young, Carl C., Rushville, Ill. Combined scaffold and derrick. No. 1,247,430; July 20; v. 276; p. 536.

Young, Frances M., Danville, Ill. Letter-cutting machine. No. 1,347,570; July 27; v. 276; p. 620.

Young, George W., Seattle, Wash. Automobile-bed. No. 1,345,820; July 6; v. 276; p. 96.

Young, Herbert W. (See White, O., and Young.)

Young, James T., St. Louis, Mo. Automatic Carbureter-regulator. No. 1,346,734; July 13; v. 276; p. 339.

Yunck, John A., South Orange, N. J. Apparatus for producing light hydrocarbons. No. 1,345,656; July 6; v. 276; p. 64.

Young, Walter H., Highland Park, Mich. Governor. No. 1,346,521; July 13; v. 276; p. 297.

Young, William H. F., Muncie, Ind. Sealing attachment for fruit-jars. No. 1,346,735; July 13; v. 276; p. 339.

Yourl, Peter V., Philadelphia, Pa. Tire-armor. No. 1,347,982; July 27; v. 276; p. 702.

Yurow, Andrew, New York, N. Y. Burglar-proof lock. No. 1,346,364; July 13; v. 276; p. 266.

Zaokipny, John, Baird, Ontario, Canada. Shovel attachment. No. 1,346,870; July 20; v. 276; p. 425.

Zbranek, Joseph, Hallettsville, Tex. Plow. No. 1,346,436; July 13; v. 276; p. 281.

Zdanowich, Joe O., London, England. Manufacture and production of cellulose acetates. No. 1,347,801; July 27; v. 276; p. 666.

Zdanowski, Michael A., Philadelphia, Pa. Making glazed kid-leather. No. 1,345,429; July 6; v. 276; p. 20.

Zdanowski, Michael A., Philadelphia, Pa. Seasoning leather. No. 1,345,430; July 6; v. 276; p. 20.

Zecchini, Alfredo. (See Gervasoni, P., and Zecchini.)

Zeidler, Frederick W., Jersey City, and C. Halpern, Newark, N. J. Hat and garment support for foldable seats. No. 1,345,729; July 6; v. 276; p. 79.

Zeiss, Firm of Carl. (See Bauersfeld, Walther, assignor.)

Zeiss, Firm of Carl. (See König, Albert, assignor.)

Zeitlin, Joseph, Fulham, London, England. Toothed gearing. No. 1,347,730; July 27; v. 276; p. 652.

Zeuthen, Anders C. A., and M. Larsen, Silkeborg, Denmark. Crystallizing margarin. No. 1,345,657; July 6; v. 276; p. 64.

Zimmermann, Simon. (See Palosky, Fredrick C., assignor.)

Zion, Isidor, Ridgefield, N. J. Educational device. No. 1,346,929; July 20; v. 276; p. 437.

Zion, Isidor, Ridgefield, N. J. Educational device. No. 1,346,930; July 20; v. 276; p. 437.

Zobel, Charles A., Roanoke, Ala. Railway-crossing. No. 1,347,431; July 20; v. 276; p. 536.

Zubryd, Anton, assignor of one-half to Porfyrij, Kiselycia, Jersey City, N. J. Life-buoy. No. 1,347,240; July 20; v. 276; p. 497.

Zwolinski, Anton, Cleveland, Ohio. Extensible chair-bed. No. 1,346,582; July 13; v. 276; p. 309.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Abolin, Harry T., Woodridge, N. J., assignor to Witcombe, McGreanchin & Co., New York, N. Y. Article of manufacture. No. 55,582; July 6; v. 276; p. 155.

Allen, Henry, Springfield Gardens, N. Y. Watch-fob, locket, or pendant. No. 55,735; July 13; v. 276; p. 356.

American Ocarina & Toy Co. (See Malavarca, Eduardo, assignor.)

Archer, John, San Jose, Calif. Badge. No. 55,736; July 13; v. 276; p. 356.

Armorcord Rubber Company, The. (See McLane, Joseph A., assignor.)

Atherly, Harry C., San Francisco, Calif. Lamp-stand. No. 55,737; July 13; v. 276; p. 356.

Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)

Autoset Clamp Company, The. (See Townsend, Charles R., assignor.)

Bacigalupi, Alfred, San Francisco, Calif. Playing-card. No. 55,583; July 6; v. 276; p. 155.

Badgley, Edna H., Springfield, Mo. Toy wagon. Nos. 55,838–9; July 20; v. 276; p. 548.

Bailey, William J., Cleveland, Ohio. Help-self counter. No. 55,584; July 6; v. 276; p. 155.

Ball, George E., Bridgeport, Conn., assignor to Whiting Manufacturing Company, New York, N. Y. Teapot or similar article of hollow ware. No. 55,738; July 13; v. 276; p. 356.

Bassett, George F., and Company. (See Tatler, Edgar L., assignor.)

Batcheller, George E., Forest Hills, N. Y. Automobile-tire. No. 55,585; July 6; v. 276; p. 156.

Becker, Johannes P., Berkeley, Calif. Auto signal-light. No. 55,739; July 13; v. 276; p. 356.

Becker, Smith & Page. (See Rochlen, William F., assignor.)

Belden, Russell D., Marion, Ohio. Tire-casing. No. 55,586; July 6; v. 276; p. 156.

Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Speedometer face-plate. Nos. 55,740–1; July 13; v. 276; p. 357.

Bergman, Victor F. (See Koropp, L., and Bergman.)

Bernstein, Solomon B., Brooklyn, N. Y. Doll. No. 55,840; July 20; v. 276; p. 548.

Bernstein, Victor, Brooklyn, N. Y. Doll. No. 55,841; July 20; v. 276; p. 549.

Bethlehem Steel Company. (See Lachman, Maurice, assignor.)

Blitwell Tire & Rubber Company, The. (See Trump, Elno H., assignor.)

Blocker Toy Manufacturing Company. (See Greenstreet, Milfred L., assignor.)

Booth, Earl C., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Vending-cabinet. No. 55,742; July 13; v. 276; p. 357.

Bowling Green Rubber Company, The. (See Greene, Charles W., assignor.)

Bratton, Elizabeth, Columbus, Ohio. Toy block. No. 55,587; July 6; v. 276; p. 156.

Breitenstein, Arthur L., Akron, Ohio, assignor to Wilson Rubber Company, Des Moines, Iowa. Automobile-tire tread. No. 55,842; July 20; v. 276; p. 549.

Breuss, William O., Port Clinton, Ohio. Tire-tread. No. 55,588; July 6; v. 276; p. 156.

Brush, Albert. (See Vories, Charles A., assignor.)

Burchfield, Frank E., Derby, assignor to Shelton Tool & Machine Co., Shelton, Conn. Fork. No. 55,589; July 6; v. 276; p. 156.

Buscavage, Simon, Shenandoah, Pa. Sacramental shrine. No. 55,590; July 6; v. 276; p. 156.

Carli, Addison B., assignor to Practical Tools Company, New York, N. Y. Wrench. No. 55,591; July 6; v. 276; p. 157.

Carls, Marcus J., and H. F. Prucha, Los Angeles, Calif. Cart. No. 55,743; July 13; v. 276; p. 357.

Champion Ignition Company. (See Berge, Joseph, assignor.)

Charlier, Alfred T., Luxembourg, Wis. Combination cap and bottle opener, box-opener, and cigar-cutter. No. 55,843; July 20; v. 276; p. 549.

Clancy, Timothy A., Hartford, Conn. Emblem, banner, badge, pin, or similar article. No. 55,844; July 20; v. 276; p. 549.

Cohn, Goldwater Company. (See Hirsh, Milton A., assignor.)

Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Range. Nos. 55,744–5; July 13; v. 276; p. 357.

Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Range-body. No. 55,746; July 13; v. 276; p. 358.

Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Warming-oven for a range. No. 55,747; July 13; v. 276; p. 358.

Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Stove-door or similar article. No. 55,748; July 13; v. 276; p. 358.

Cole Manufacturing Company. (See Cole, Edward P., assignor.)

Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. Nos. 55,749–50; July 13; v. 276; p. 358.

Continental Sheffield Silver Co. (See Gaertner, Victor, assignor.)

Cooper, Allyn R., Marshalltown, Iowa. Handle for muffler-valves. No. 55,846; July 20; v. 276; p. 550.

Crampton, Alfred H., Stockton, Calif. Combination hammer, can-punch, and ice-pick. No. 55,592; July 6; v. 276; p. 157.

Crawford McGregor and Canby Company, The. (See Mattern, George W., assignor.)

Crockett, Albert S., New York, N. Y. Communication-board. No. 55,593; July 6; v. 276; p. 157.

Cross, Harry E., Rockton, Ill. Automobile-body. No. 55,845; July 20; v. 276; p. 549.

Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Aquarium-stand. Nos. 55,751–4; July 13; v. 276; p. 359.

Corry, Grace, New York, N. Y. Doll. No. 55,594; July 6; v. 276; p. 157.

Cutler, Clifford A., Buffalo, N. Y. Drawer-pull. No. 55,595; July 6; v. 276; p. 157.

Delikat, Thomas, Newark, N. J. Combined hatpin and point-protector. No. 55,755; July 13; v. 276; p. 359.

Denning, Patrick F., Cleveland, Ohio. Individual article-holder. No. 55,756; July 13; v. 276; p. 360.

Dickinson, Herbert T., Denver, Colo. Emblem, badge, or button. No. 55,847; July 20; v. 276; p. 550.

Dorer, Primus O. (See Rogers, R. H., and Dorer.)

Easby, Thomas B., assignor to New York Stamping Company, Brooklyn, N. Y. Crumb set. Nos. 55,757–8; July 13; v. 276; p. 360.

Ebeling, Phillip, Washington, Pa., assignor to Imperial Glass Company, Bellaire, Ohio. Article of glassware. No. 55,759; July 13; v. 276; p. 360.

Edison Storage Battery Company. (See Sallsbury, Myron D., assignor.)
Edwards, Charles T. (See Johnston, Clifford E., assignor.)
Egan, James H., Philadelphia, Pa. Vending-machine. No. 55,848; July 20; v. 276; p. 550.
Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,849–50; July 20; v. 276; p. 550.
Elgin National Watch Company. (See Goodrow, Francis A., assignor.)
Elkonin, Aaron. (See Gorod, Nicholas, assignor.)
Erdoes, Julius, and E. Sas, assignor to The Metallograph Corporation, New York, N. Y. Inkstand. No. 55,851; July 20; v. 276; p. 551.
Everett Machine & Manufacturing Company. (See Meltz, Julius B., assignor.)
Erickson, Claus E., Des Moines, Iowa. Thermometer. No. 55,760; July 13; v. 276; p. 361.
Esch, Henry, Jr., Manitowoc, Wis. Combined collar-button and tie-slide or similar article. No. 55,761; July 13; v. 276; p. 361.
Ewald, Arno A., Oakfield, Wis. Casing for a combined air and water dispenser. No. 55,762; July 13; v. 276; p. 361.
Fairbanks, Ernest H., Merchantville, N. J. Phonographic-disk-record cabinet. No. 55,596; July 6; v. 276; p. 157.
Felger, F. & F., Inc. (See Felger, Frederick H., assignor.)
Felger, Frederick H., assignor to F. & F. Felger, Inc., Newark, N. J. Plate for mounting gems in jewelry. No. 55,597; July 6; v. 276; p. 158.
Ferdon, Guy W., Cresskill, N. J., assignor to Silver & Co., Brooklyn, N. Y. Egg-poacher. Nos. 55,598–9; July 6; v. 276; p. 158.
Fern, John A., Cincinnati, Ohio, assignor to E. H. McConnell, trustee, Memphis, Tenn. Talking-machine. Nos. 55,763–7; July 13; v. 276; p. 361.
Findley, Robert, Manufacturing Co. (See Schwartz, Frederick, assignor.)
Fisher, Abraham C., New York, N. Y. Lady's vanity-case. No. 55,852; July 20; v. 276; p. 551.
Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Clock-bank case. Nos. 55,853–4; July 20; v. 276; p. 551.
Follen, Thomas, La Fayette, Ind. Tire. No. 55,600; July 6; v. 276; p. 158.
Fox, Albert S., Chicago, Ill. Automobile-tire. No. 55,768; July 13; v. 276; p. 362.
Folmer, Charles A., Bernharts, Pa. Automobile-top. No. 55,855; July 20; v. 276; p. 551.
French, Alice M., Indianapolis, Ind. Pin, emblem, or article of similar nature. No. 55,769; July 13; v. 276; p. 362.
Fry, Walter L., New Rochelle, N. Y. Combined trousers and boots. No. 55,856; July 20; v. 276; p. 552.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Inkstand. No. 55,857; July 20; v. 276; p. 552.
Gaertner, Victor, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Bread-tray or similar article. No. 55,770; July 13; v. 276; p. 362.
Gaertner, Victor, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Gallery-mount for hollow tableware. Nos. 55,771–2; July 13; v. 276; p. 363.
Gaertner, Victor, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Article of hollow tableware. Nos. 55,773–6; July 13; v. 276; p. 363.
Gage, Henry P., and Emilio Pascucci, Corning, N. Y. Light cover glass. No. 55,777; July 13; v. 276; p. 364.
Gagnon, Bernard E., Bridgeport, Conn. Game-board. No. 55,858; July 20; v. 276; p. 552.
Gibson, Francis W., West Roxbury, Mass. Display-rack. No. 55,778; July 13; v. 276; p. 364.
Gillinder Brothers. (See Gillinder, Edwin B., assignor.)
Gillinder, Edwin B., assignor to Gillinder Brothers, Port Jervis, N. Y. Lighting-globe. Nos. 55,779–80; July 13; v. 276; p. 364.
Gilson, J. E., Company. (See Gilson, John, Sr., assignor.)
Gilson, John, Sr., assignor to J. E. Gilson Company, Port Washington, Wis. Weeder. No. 55,601; July 6; v. 276; p. 158.
Giroux, Pierre E., Johnstown, N. Y. Slipper. No. 55,602; July 6; v. 276; p. 159.
Glassberg, Joseph, New York, N. Y. Bracket. No. 55,603; July 6; v. 276; p. 159.
Goodrow, Francis A., assignor to Elgin National Watch Company, Elgin, Ill. Hands of a timepiece. Nos. 55,781–6; July 13; v. 276; p. 365.
Gorod, Nicholas, Brooklyn, assignor to A. Elkonin, New York, N. Y. Ring. No. 55,604; July 6; v. 276; p. 159.
Great Western Manufacturing Company. (See Lonn, Edward J., assignor.)
Green, Edward E., San Francisco, Calif. Step-plate. No. 55,605; July 6; v. 276; p. 159.
Greenberg, Barnet, Chicago, Ill. Raincoat. No. 55,787; July 13; v. 276; p. 366.
Greene, Charles W., assignor to The Bowling Green Rubber Company, Toledo, Ohio. Tire. No. 55,606; July 6; v. 276; p. 159.
Greenstreet, Milfred L., assignor, by mesne assignments, to Blocker Toy Manufacturing Company, Maplewood, Mo. Toy chair. No. 55,607; July 6; v. 276; p. 159.
Griffin, John B., Newington, Conn. Novelty picture-bracelet. No. 55,788; July 13; v. 276; p. 366.
Grill, Albert, Pittsburgh, Pa. Push and coaster car. No. 55,608; July 6; v. 276; p. 160.
Grossman, Cassriel J. and S. M., Chicago, Ill.; said S. M. Grossman assignor, by mesne assignments, to S. M. Grossman & Co. Jewelry—namely, ring-top, pendant, pair of cuff-buttons, pin, or article of similar nature. No. 55,609; July 6; v. 276; p. 160.
Grossman, S. M., & Co. (See Grossman, Cassriel J. and S. M., assignors.)
Grossman, Samuel M. (See Grossman, Cassriel J. and S. M.)
Hale, Willis W., Cleveland, Ohio. Electric heater. No. 55,789; July 13; v. 276; p. 366.
Haupt, Harry, Elmsford, assignor to Kimpton, Haupt & Co., New York, N. Y. Cover for inkstand. No. 55,610; July 6; v. 276; p. 160.
Heathcote, Edwin C., Brooklyn, N. Y. Emblem, pin, button, watch-charm, medal, or similar article. No. 55,790; July 13; v. 276; p. 366.
Heckmann, Harry G., Binghamton, N. Y. Internally-heated flatiron. No. 55,791; July 13; v. 276; p. 366.
Henderson, Chester O., assignor to Henderson Tire & Rubber Corporation, Columbus, Ohio. Tire-tread. No. 55,611; July 6; v. 276; p. 160.
Henderson, Chester O., assignor to Henderson Tire & Rubber Corporation, Columbus, Ohio. Tire-tread. No. 55,612; July 6; v. 276; p. 160.
Henderson Tire & Rubber Corporation. (See Henderson, Chester O., assignor.)
Hickey, Henry J. (See McMullan, W. E., and Hickey.)
Hickey, Henry J., and W. E. McMullan, Fort Dodge, Iowa. Guide-post. No. 55,859; July 20; v. 276; p. 552.
Hirsch, Julius, Brooklyn, N. Y. Stirring-rod or similar article. No. 55,861; July 20; v. 276; p. 552.
Hirsh, Milton A., assignor to Cohn, Goldwater Company, Los Angeles, Calif. Child's dress. No. 55,860; July 20; v. 276; p. 552.
Hobe, William W., New York, N. Y. Button. No. 55,862; July 20; v. 276; p. 553.
Holcomb & Hoke Manufacturing Co. (See Booth, Earl C.)
Hood Rubber Company. (See Tousley, N. E., and Whorf, assignors.)
Hoodwin, J. W., Company. (See Reisfield, Louis, assignor.)
Howard, Emmett M., High Point, N. C. Phonographic-record-disk cabinet. No. 55,613; July 6; v. 276; p. 161.
Hudgins, Patrick L., Decatur, Ga. Automobile-tool. No. 55,792; July 13; v. 276; p. 367.
Hulbert, Ansel C., San Francisco, Calif. Switch-casing. No. 134,614; July 6; v. 276; p. 161.
Huyler's. (See Porter, Adelaide M., assignor.)
Imperial Glass Company. (See Ebeling, Philip, assignor.)
Inflexible Co. (See Schwarber, Henry, assignor.)
Iribe, Paul, New York, N. Y. Phonograph-cabinet. No. 55,863; July 20; v. 276; p. 553.
Irwin, Beatrice, New York, N. Y. Light-filter. No. 55,793; July 13; v. 276; p. 367.
Jackson, Salome C., New York, N. Y. Radiator-cap ornament for automobiles. No. 55,615; July 6; v. 276; p. 161.
Jardella, Aristide, New York, N. Y. Porcupine toothpick-holder. No. 55,794; July 13; v. 276; p. 367.
Jenkins, Clarence E., Keene, N. H. Garden-urn. No. 55,864; July 20; v. 276; p. 553.
Johnson, James G., Chicago, Ill. Foot rest and warmer. No. 55,616; July 6; v. 276; p. 161.
Johnston, Clifford E., assignor of one-half to Charles T. Edwards, St. Louis, Mo. Statuette or similar article. No. 55,795; July 13; v. 276; p. 367.
Kammerer, John H., Oakland, Calif. Automobile-body. No. 55,617; July 6; v. 276; p. 161.
Kapneck, Henry, Washington, D. C. Support. Nos. 55,796–7; July 13; v. 276; p. 367.
Keller, Clarence D., Los Angeles, Calif. Windshield. No. 55,618; July 6; v. 276; p. 162.
Kimpton, Haupt & Co. (See Haupt, Harry, assignor.)
Kimpton, Haupt & Co. (See Riley, James T., assignor.)
Klapp, Elmer A., New York, N. Y. Emblem, banner, or armband. No. 55,798; July 13; v. 276; p. 368.
Klapp, Elmer A., New York, N. Y. Hero-emblem pin or button. No. 55,799; July 13; v. 276; p. 368.
Klee, William C., Rochester, N. Y. Belt-display stand. No. 55,619; July 6; v. 276; p. 162.
Klepser, Jacob R., Brady, Mont. Memorial tablet. No. 55,800; July 13; v. 276; p. 368.
Knaak, George A., Milwaukee, Wis. Controller. No. 55,620; July 6; v. 276; p. 162.
Koropp, Leopold and V. F. Bergman, Chicago, Ill. Wreath. No. 55,621; July 6; v. 276; p. 162.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,622; July 6; v. 276; p. 162.
Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 55,801; July 13; v. 276; p. 368.
La Fayette Motors Company. (See Simpson, Warren W., assignor.)
La Vanway, Olive L. (See La Vanway, Victor E. and O. L.)
La Vanway, Victor E. and O. L., assignors of one-half to F. Wayno, Tacoma, Wash. Child's velocipede. No. 55,865; July 20; v. 276; p. 553.
Lederer, Hugo I., New York, N. Y. Doll. No. 55,866; July 20; v. 276; p. 553.

Leubner, Herman R. (See Stolzenburg, Walter F., and Leubner.)
Lillie, Arthur C., Los Angeles, Calif. Windshield. No. 55,802; July 13; v. 276; p. 369.
Loadometer Company, The. (See Troll, Frederick J., assignor.)
Lockwood, Paul M., Kansas City, Mo. Tire-cover. Nos. 55,803–4; July 13; v. 276; p. 369.
Loegler, Chretien, Clifton, N. J., assignor to Monica Textile Corporation. Textile fabric. No. 55,623; July 6; v. 276; p. 163.
Lonn, Edward J., assignor to Great Western Manufacturing Company, Laporte, Ind. Bicycle-frame. Nos. 55,624–5; July 6; v. 276; p. 163.
McCauley, Joseph H. (See Tippett, Charles L., assignor.)
McClure, Samuel Q., Akron, Ohio. Dictaphone-record cabinet. No. 55,869; July 20; v. 276; p. 554.
McConnell, E. H., trustee. (See Fern, John A., assignor.)
McDade, Andrew J., New York, N. Y. Calendar-mounting. No. 55,629; July 6; v. 276; p. 164.
McElrath, Richards P., Lakewood, Ohio. Pneumatic tire. No. 55,630; July 6; v. 276; p. 164.
McGrevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Watch case and bow. No. 55,870; July 20; v. 276; p. 554.
McLane, Joseph A., assignor to The Armorcord Rubber Company, Morgantown, W. Va. Tread of vehicle-tires. No. 55,808; July 13; v. 276; p. 370.
McMullan, Warner E., and H. J. Hickey, Fort Dodge, Iowa. Guide device. No. 55,631; July 6; v. 276; p. 164.
McMullan, Warner E. (See Hickey, H. J., and McMullan.)
Mahin, Harold J., New York, N. Y. Bulletin-board. Nos. 55,626–7; July 6; v. 276; p. 163.
Mahin, Harold J., New York, N. Y., assignor to Syracuse Rubber Company, Inc., Syracuse, N. Y. Bulletin-board, No. 55,805; July 13; v. 276; p. 369.
Malavarca, Eduardo, assignor to American Ocarina & Toy Co. Inc., Newark, N. J. Doll. No. 55,806; July 13; v. 276; p. 369.
Martin, Adolf, Trenton, N. J. Surface decoration for china, glass, or like articles. No. 55,807; July 13; v. 276; p. 369.
Mason, Charles E., Detroit, Mich., assignor to G. Waldree, Ramsey county, Minn. Manifold-bracket. No. 55,628; July 6; v. 276; p. 163.
Mattern, George W., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Striking-face for a golf-club head. No. 55,867; July 20; v. 276; p. 553.
Meltz, Julius B., assignor to Everett Machine & Manufacturing Company, Everett, Mass. Ice-cream cone or similar article. No. 55,868; July 20; v. 276; p. 554.
Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
Metallograph Corporation, The. (See Erdoes, J., and Sas, assignors.)
Metzger, Myer, Chicago, Ill. Combined vending and display stand. No. 55,809; July 13; v. 276; p. 370.
Meyer, Peter H., Buffalo, N. Y. Combined paper-weight and magnifying-glass. No. 55,632; July 6; v. 276; p. 164.
Miles, Harry B., Elwood, Victoria, Australia. Talking-machine cabinet. No. 55,871; July 20; v. 276; p. 554.
Miller, Edward, & Co. (See Walter, Herman H., assignor.)
Monica Textile Corporation. (See Loegler, Chretien, assignor.)
Monkhouse, Frederick C., Rochester, N. Y. Rattle. Nos. 55,633–4; July 6; v. 276; p. 164.
Montana, Pietro, Brooklyn, N. Y. Statue. No. 55,872; July 20; v. 276; p. 554.
Moore, Erastus G., Long Beach, Calif. Aeroplane-coaster. No. 55,636; July 6; v. 276; p. 165.
Morea, Peter, Woodside, N. Y. Picture-frame. No. 55,635; July 6; v. 276; p. 165.
Morse, Leo, New York, N. Y. Figure toy. No. 55,810; July 13; v. 276; p. 370.
Mueller, Paul O., assignor of one-half to W. C. Mueller, Brooklyn, N. Y. Spool-holder. No. 55,637; July 6; v. 276; p. 165.
Mueller, William C. (See Mueller, Paul O., assignor.)
Muxen, Matthew B., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Casing for a dispensing apparatus. No. 55,873; July 20; v. 276; p. 554.
National Lace & Embroidery Company. (See Schmid, Werner, assignor.)
Nemser, Joseph, New York, N. Y. Dress. No. 55,638; July 6; v. 276; p. 165.
New York Stamping Company. (See Easby, Thomas B., assignor.)
Noirot, Leo F. and O. G., Peoria, Ill. Child's vehicle. No. 55,874; July 20; v. 276; p. 555.
Noirot, Otto G. (See Noirot, Leo F. and O. G.)
Onufryk, Andrew, Rochester, N. Y. Dining-cutlery holder. No. 55,639; July 6; v. 276; p. 166.
Orsenigo, Henry, Mount Vernon, N. Y. Phonograph-cabinet. Nos. 55,875–9; July 20; v. 276; p. 555.
Ouellette, Alfred J. (See Smith, H. B., Thomas, and Ouellette.)
Ouzoun-Boghossian, Sissak K., Washington, D. C. Typewriter-frame. Nos. 55,811–12; July 13; v. 276; p. 370.
Owen, William C. (See Tinsman, Edgar A., assignor.)
Owen, William C., Cleveland, Ohio. Tire-casing. No. 55,813; July 13; v. 276; p. 370.
P. R. B. Pump Company. (See Price, Stephen C., assignor.)
Pajeau, Charles H., Evanston, Ill. Toy rattle. No. 55,880; July 20; v. 276; p. 556.
Pajeau, Charles H., Evanston, Ill. Doll. No. 55,881; July 20; v. 276; p. 556.
Pascucci, Emilio. (See Gage, H. P., and Pascucci.)
Pasquarelli, Menotti F., San Francisco, Calif. Shoe. No. 55,814; July 13; v. 276; p. 371.
Peruggi, Ernesto, New York, N. Y. Doll. Nos. 55,882–6; July 20; v. 276; p. 556.
Philadelphia Metal Dyeing Form Company. (See von Stetten, Julius O., assignor.)
Pinkney, Bryan D., assignor to The Triumph Manufacturing Company, Cincinnati, Ohio. Beater for mixing-machines. No. 55,815; July 13; v. 276; p. 371.
Poll, George, New York, N. Y. Table. No. 55,884; July 20; v. 276; p. 556.
Porter, Adelaide M., Greenwich, Conn., assignor to Huyler's Inc., New York, N. Y. Doll. No. 55,640; July 6; v. 276; p. 166.
Practical Tools Company. (See Carll, Addison B., assignor.)
Price, Stephen C., Louisiana, assignor to P. R. B. Pump Company, Hannibal, Mo. Oil-can. No. 55,641; July 6; v. 276; p. 166.
Prinl, Anthony, Brooklyn, N. Y. Display-stand. No. 55,642; July 6; v. 276; p. 166.
Prucha, Henry F. (See Carls, M. J., and Prucha.)
Quinby, Erasmus C., Los Angeles, Calif. Candy-box. No. 55,643; July 6; v. 276; p. 166.
Quinby, Erasmus C., Los Angeles, Calif. Candy-box. No. 55,885; July 20; v. 276; p. 556.
Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf-club. No. 55,644; July 6; v. 276; p. 167.
Richsteig, Max, Cincinnati, Ohio. Casing for a sound-producing instrument. No. 55,645; July 6; v. 276; p. 167.
Reisfeld, Louis, assignor to J. W. Hoodwin Company, Chicago, Ill. Punch-board. No. 55,817; July 13; v. 276; p. 371.
Reynolds, Florence K., San Francisco, Calif. Toy figure. No. 55,886; July 20; v. 276; p. 557.
Richard, François, Cleveland, Ohio. Automobile-body. No. 55,816; July 13; v. 276; p. 371.
Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
Riley, James T., Brooklyn, assignor to Kimpton, Haupt & Co., New York, N. Y. Inkstand. Nos. 55,646–7; July 6; v. 276; p. 167.
Roehlen, William F., Rochester, N. Y., assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. No. 55,887; July 20; v. 276; p. 557.
Robb, James T., Bay Shore, N. Y. Portable lamp. No. 55,818; July 13; v. 276; p. 371.
Roebuck, Harry J., Troy, N. Y. Snap-hook. No. 55,819; July 13; v. 276; p. 371.
Rogers, Richard H., and P. O. Dorer, assignors to S. Smith & Sons (Motor Accessories) Limited, London, England. Switch-casing. No. 55,820; July 13; v. 276; p. 372.
Saal, Henry G., Chicago, Ill. Mounting-frame for spring-motors. No. 55,648; July 6; v. 276; p. 167.
Sallsbury, Myron D., East Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Emblem, medal, badge, insignia, or an article of a similar nature. No. 55,649; July 6; v. 276; p. 167.
Sandlass, Henry J., Forest Park, Md. Key-bed for pianos. No. 55,888; July 20; v. 276; p. 557.
Sanborn, Lucian W., Framingham, Mass. Ring. No. 55,650; July 6; v. 276; p. 168.
Sas, Elmer. (See Erdoes, J., and Sas.)
Schmid, Werner, Brooklyn, assignor to National Lace & Embroidery Company, New York, N. Y. Lace and embroidery. Nos. 55,651–711; July 6; v. 276; pp. 168–76.
Schwarber, Henry, Weehawken, assignor to Inflexible Co., West New York, N. J. Embroidered lace collar. No. 55,727; July 6; v. 276; p. 179.
Schwartz, Frederick, Brooklyn, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Plate for lighting-fixtures. Nos. 55,889–90; July 20; v. 276; p. 557.
Schwartz, Frederick, Brooklyn, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Plate for lighting-fixtures. No. 55,899; July 20; v. 276; p. 559.
Scudder, Eric, and N. C. Ward, Chicago, Ill. Bottle. Nos. 55,891–2; July 20; v. 276; pp. 557–8.
Segawa, Noboru, Alvin, Tex. Toy. No. 55,720; July 6; v. 276; p. 178.
Seidel, Martin, Weehawken, assignor to West Shore Embroidery Company, West New York, N. J. Lace. Nos. 55,712–19; July 6; v. 276; pp. 176–8.
Sessions, Alfred D. E., Red Wing, Minn. Hairpin. No. 55,821; July 13; v. 276; p. 372.
Shelton Tool & Machine Co. (See Burchfield, Frank E., assignor.)
Silver & Co. (See Ferdon, Guy W., assignor.)
Simmons, Joseph, New York, N. Y. Finger-ring. No. 55,893; July 20; v. 276; p. 558.
Simola, Efisio, Berwind, Colo. Surface ornamentation for a cocoanut-shell or similar article. No. 55,721; July 6; v. 276; p. 178.
Simpson, Warren W., Indianapolis, Ind., assignor to La Fayette Motors Company. Radiator-shell for motor-vehicles. No. 55,822; July 13; v. 276; p. 372.

Smith, Howell B., Nyack, N. Y., K. C. Thomas, Interlaken, N. J., and A. J. Ouellette, Duluth, Minn. Doll or statuette. Nos. 55,894–5; July 20; v. 276; p. 558.
Smith, S., & Sons (Motor Accessories). (See Rogers, R. H., and Dorer, assignors.)
Smith, Walter S., Columbus, Ohio. Scale-tower. No. 55,823; July 13; v. 276; p. 372.
Smith, Walter S., Columbus, Ohio. Scale. No. 55,824; July 13; v. 276; p. 372.
Solidarity Watch Case Company. (See McGrevy, Jeremiah, assignor.)
Spalding, A. G., & Bros. (See Reach, William F., assignor.)
Spiringer, Arthur P., Erie, Pa. Kiddie-cycle. No. 55,825; July 13; v. 276; p. 372.
Spitler, Bernard W., Boston, Mass. Toy automobile. No. 55,722; July 6; v. 276; p. 178.
Stackhouse, Edwin D., Columbus, Ohio. Badge, emblem, or article of similar nature. No. 55,896; July 20; v. 276; p. 558.
Starkweather, Sue P., Berkeley, Calif. Doll. Nos. 55,723–4; July 6; v. 276; p. 179.
Starr, Fred, Oakland, Calif. Toy vehicle. No. 55,725; July 6; v. 276; p. 179.
Stih, John A., La Salle, Ill. Garter. No. 55,826; July 13; v. 276; p. 373.
Stolzenburg, Walter F., and H. R. Leubner, Sheboygan, Wis. Grill for talking-machine cabinets. No. 55,726; July 6; v. 276; p. 179.
Susquehanna Silk Mills. (See Eisele, Adolphe, assignor.)
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Syracuse Rubber Company. (See Mahin, Harold J., assignor.)
Tatler, Edgar E., Trenton, N. J., assignor to George F. Bassett and Company, New York, N. Y. Plate or similar article. No. 55,827; July 13; v. 276; p. 373.
Taylor, Halsey W., Warren, Ohio. Drinking-fountain bowl. No. 55,828; July 13; v. 276; p. 373.
Tew, Frederick S., Fort Worth, Tex. Windshield. No. 55,897; July 20; v. 276; p. 558.
Thomas, Gust, Fort Sill, Okla. Inkstand. No. 55,898; July 20; v. 276; p. 559.
Thomas, Kenneth C. (See Smith, H. B., Thomas, and Ouellette.)
Tinsman, Edgar A., Willoughby, assignor to W. C. Owen, Cleveland, Ohio. Tire. Nos. 55,728–9; July 6; v. 276; pp. 179–80.
Tin Decorating Company of Baltimore, The. (See Connor, Martha H., assignor.)
Tippett, Charles L., assignor of one-half to J. H. McCauley, Washington, D. C. Lamp. No. 55,829; July 13; v. 276; p. 373.
Tokheim Oil Tank and Pump Company. (See Muxen, Matthew B., assignor.)
Tousley, Nelson E., Belmont, and A. H. Whorf, assignors to Hood Rubber Company, Watertown, Mass. Boot. No. 55,730; July 6; v. 276; p. 180.
Townsend, Charles R., assignor to The Autoset Clamp Company, Limited, Birmingham, England. Clamping-dog. Nos. 55,830–1; July 13; v. 276; p. 373.
Townsend, Charles R., assignor to The Autoset Clamp Company, Limited, Birmingham, England. Clamping-dog. No. 55,900; July 20; v. 276; p. 559.
Triumph Manufacturing Company. (See Pinkney, Bryan D., assignor.)
Troll, Frederick J., assignor to The Loadometer Company, Baltimore county, Md. Load-measuring device. No. 55,901; July 20; v. 276; p. 550.
Trump, Elno H., assignor to The Biltwell Tire & Rubber Company, Barberton, Ohio. Elastic vehicle-tire. No. 55,832; July 13; v. 276; p. 374.
Van Shrum, William H., Columbus, Ohio. Flying toy. No. 55,732; July 6; v. 276; p. 180.
Viscardi, Alfredo, New York, N. Y. Screen. No. 55,731; July 6; v. 276; p. 180.
Von Stetten, Julius O., Philadelphia, Pa., assignor to Philadelphia Metal Drying Form Company, New Castle, Del. Hosiery-drying form. No. 55,733; July 6; v. 276; p. 180.
Vories, Charles A., assignor to Albert Brush, Los Angeles, Calif. Signal-light for automobiles. No. 55,833; July 13; v. 276; p. 374.
Wagner, Bernard P., assignor to The Wagner Manufacturing Company, Sidney, Ohio. Metal baking-pan. No. 55,734; July 6; v. 276; p. 180.
Wagner Manufacturing Company, The. (See Wagner, Bernard P., assignor.)
Waldo, Algermont H., St. Paul, Minn. Rug. No. 55,834; July 13; v. 276; p. 374.
Waldo, Algermont H., St. Paul, Minn. Rug. Nos. 55,902–18; July 20; v. 276; pp. 559–62.
Waldref, Grant. (See Mason, Charles E., assignor.)
Ward, Neil C. (See Scudder, E., and Ward.)
Wayno, Frank. (See La Vanway, Victor E. and O. L., assignors.)
West Shore Embroidery Company. (See Seidel, Martin, assignor.)
Whiting Manufacturing Company. (See Ball, George E., assignor.)
Whorf, Allison H. (See Tousley, N. E., and Whorf.)
Wildenberg Bros. (See Wildenberg, Jacob, assignor.)
Wildenberg, Jacob, assignor to Wildenberg Bros., New York, N. Y. Bezel. No. 55,926; July 20; v. 276; p. 564.
Wilson Rubber Company. (See Breitenstein, Arthur L., assignor.)
Wise, Bey A., Vincennes, Ind. Tower-monument. No. 55,920; July 20; v. 276; p. 562.
Witcombe McGeachin & Co. (See Abolin, Harry T., assignor.)
Withers, Ida A., Fort Worth, Tex. Statuette. No. 55,835; July 13; v. 276; p. 374.
Wolter, Herman H., assignor to Edward Miller & Co., Meriden, Conn. Lamp. No. 55,919; July 20; v. 276; p. 562.
Wolter, Herman H., assignor to Edward Miller & Co., Meriden, Conn. Lamp. Nos. 55,921–4; July 20; v. 276; p. 563.
Wolter, Herman H., assignor to Edward Miller & Co., Meriden, Conn. Support. No. 55,925; July 20; v. 276; p. 564.
Young, John C., Kansas City, Mo. Flag. No. 55,836; July 13; v. 276; p. 375.
Ziv, Abraham J., Chicago, Ill. Hat. No. 55,837; July 13; v. 276; p. 375.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adams & Westlake Company, The, Chicago, Ill. Door-rim, desk, berth, drawer, and sash locks and padlocks. No. 133,201; July 20; v. 276; p. 589.
Aircraft & Motor Products Co., New York, N. Y. Spark-plugs. No. 133,097; July 13; v. 276; p. 401.
Aktiebolaget Arca Regulatorer, Stockholm, Sweden. Hardware and plumbing and steam-fitting supplies. No. 133,202; July 20; v. 276; p. 589.
Aldrich Publishing Company, New York, N. Y. Weekly publication. No. 133,348; July 27; v. 276; p. 767.
Allied Machinery Company of America, New York, N. Y. Acetylene cutting and welding machines, acetylene-lighting plants, and steam-boilers. No. 132,872; July 6; v. 276; p. 199.
Allied Machinery Company of America, New York, N. Y. Isolated electric-lighting plants, electric-storage-battery locomotives, &c. No. 132,873; July 6; v. 276; p. 199.
Alter, Frank W., Chicago, Ill. Timepieces. Nos. 132,874–5; July 6; v. 276; p. 199.
Alter, Frank W., Chicago, Ill. Timepieces. No. 133,098; July 13; v. 276; p. 401.
Amer Knitting Mills, Inc., New York, N. Y. Sweaters, bathing-suits. No. 133,203; July 20; v. 276; p. 589.
American Agricultural Chemical Company, The, New York, N. Y. Fertilizer. No. 132,876; July 6; v. 276; p. 199.
American Candy Company, Milwaukee, Wis. Candy. No. 132,877; July 6; v. 276; p. 199.
American Iron Products Company, Inc., New York, N. Y. Metals and metal castings and forgings. No. 133,204; July 20; v. 276; p. 589.
American Novelty Wash Suit Co., Inc., New York, N. Y. Boys' outer clothing. No. 133,205; July 20; v. 276; p. 589.
American Optical Company, Southbridge, Mass. Opthalmic lenses and lenses for all kinds of optical and scientific instruments. Nos. 133,206–7; July 20; v. 276; p. 589.
American Optical Company, Southbridge, Mass. Opthalmic lenses and lenses for optical instruments and appliances. No. 133,208; July 20; v. 276; p. 589.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 133,349; July 27; v. 276; p. 767.
American Zinc Products Company, The, Greencastle, Ind. Zinc roofing in the form of plates and sheets. No. 132,879; July 6; v. 276; p. 199.
Anchor Leather Co., Chicago, Ill. Tanned leather hides for shoe-uppers. No. 133,350; July 27; v. 276; p. 767.
Anzell, Alexander A., New York, N. Y. Dental, &c., mirrors, retinoscopes. No. 132,880; July 6; v. 276; p. 199.
Armstrong, Julian, Evanston, Ill. Steel water-towers. No. 133,351; July 27; v. 276; p. 767.
Art Lamp Mfg. Co., Chicago, Ill. Electrically-lighted lamps, torches, lanterns, &c. No. 132,881; July 6; v. 276; p. 199.
Atlantic Coast Distributors, Charleston, S. C. Fruit and fresh vegetables. No. 132,882; July 6; v. 276; p. 199.
Atmore & Son, Inc., Philadelphia, Pa. Preparation for making cake. No. 132,883; July 6; v. 276; p. 199.
Ault & Wiborg Co., The, Cincinnati, Ohio. Varnish-paint. Nos. 132,884–8; July 6; v. 276; p. 199.
Auto Indicator Company, Grand Rapids, Mich. Mechanically-operated traffic-signals for vehicles. No. 133,209; July 20; v. 276; p. 589.

Bahnsen, C., & Co. Inc., New York, N. Y. Ladies' knitted dress goods known as jersey cloth in the piece. No. 132,889; July 6; v. 276; p. 199.
Baird, David, and Son, Louisville, Ky. Women's, misses', and children's trimmed hats. No. 133,099; July 13; v. 276; p. 401.
Baldwin Chain and Manufacturing Company, Worcester, Mass. Power-transmission or drive chains for motor-trucks, &c. No. 133,210; July 20; v. 276; p. 589.
Barbe, Alfred M., New York, N. Y. Woven, printed, and dyed drapery fabrics. No. 132,890; July 6; v. 276; p. 199.
Bargman, Theodore, Detroit, Mich. Clock and watch dials. No. 133,100; July 13; v. 276; p. 401.
Barr, J. E., Pickling & Preserving Company, St. Cloud, Minn. Canned vegetables. Nos. 132,891–2; July 6; v. 276; p. 199.
Bartlett, James R., New York, N. Y. Watch and clock dials. No. 132,893; July 6; v. 276; p. 199.
Bauman, Hyman, & Co., New York, N. Y. Handkerchiefs. No. 132,894; July 6; v. 276; p. 199.
Bausch Machine Tool Company, Springfield, Mass. Non-ferrous metal in the form of castings and forgings, &c. No. 132,895; July 6; v. 276; p. 199.
Beaumont, F., National-Croustade Manufacturing Company, Inc., The, New York, N. Y. Cup or dish like receptacles made of fried or baked pastry. No. 133,211; July 20; v. 276; p. 589.
Bensinger, Norman E., Chicago, Ill. Billiard-cue tips. No. 132,896; July 6; v. 276; p. 199.
Berger Manufacturing Company, The, Canton, Ohio. Steel office equipment and furniture. No. 133,352; July 27; v. 276; p. 767.
Berkwits, Max, New York, N. Y. Coats for young boys and girls. No. 133,353; July 27; v. 276; p. 767.
Bernard, William J., New York, N. Y. Watches. No. 132,897; July 6; v. 276; p. 199.
Bernstein Manufacturing Company, Philadelphia, Pa. Cots and couches. No. 133,212; July 20; v. 276; p. 589.
Bianchini, Férier, Lyon, France. Piece goods of silk, wool, linen, cotton, and other textile fabrics. No. 133,354; July 27; v. 276; p. 767.
Biltwell Glove Company, The, Toledo, Ohio. Gloves. No. 133,213; July 20; v. 276; p. 589.
Blackburn, Richard H., Jersey City, N. J. Toy vehicle—viz., coaster. No. 132,898; July 6; v. 276; p. 199.
Blackman Talking Machine Co., Inc., New York, N. Y. Talking-machine-record brushes. No. 133,355; July 27; v. 276; p. 767.
Blanck & Co., Inc., New York, N. Y. Laces and embroideries in the piece. No. 133,357; July 27; v. 276; p. 767.
Blickensderfer Manufacturing Company, The, (now by judicial change of name The Blick Typewriter Company,) Stamford, Conn. Typewriters. No. 133,101; July 13; v. 276; p. 401.
Bloch Chemical Company, Inc., The. Hair-nets. No. 133,356; July 27; v. 276; p. 767.
Block & Kuhl Company, Peoria, Ill. Dry paste and ready-mixed paints. No. 133,358; July 27; v. 276; p. 767.
Bloom & Moses, Inc., Baltimore, Md. Female apparel. No. 133,214; July 20; v. 276; p. 589.
Blue Bird Manufacturing Company, St. Louis, Mo. Kitchen tables and cabinets. No. 133,215; July 20; v. 276; p. 589.
Blue Ridge Metals Corporation, Roanoke, Va., and Pittsburgh, Pa. Metals and metal castings and forgings. No. 133,102; July 13; v. 276; p. 401.
Blum, Edard, Chicago, Ill. Portrait-photographs. No. 133,359; July 27; v. 276; p. 767.
Bojnowski, Rev. Lucyan, New Britain, Conn. Newspaper. No. 133,360; July 27; v. 276; p. 767.
Boord & Son (Incorporated), London, England. Distilled alcoholic liquors. No. 133,103; July 13; v. 276; p. 401.
Borden's Condensed Milk Company, New York, N. Y. Confectionery. No. 133,361; July 27; v. 276; p. 767.
Borgfelt, George, & Co., New York, N. Y. Table and fancy glassware. No. 133,104; July 13; v. 276; p. 401.
Borgfeldt, George, & Co., New York, N. Y. Women's, misses', children's, and infants' felt shoes and slippers. No. 133,216; July 20; v. 276; p. 589.
Bourjois, A., & Co., Inc., New York, N. Y. Tooth, nail, hair, bath, and face brushes. No. 132,899; July 6; v. 276; p. 199.
Bray Pictures Corporation, The, New York, N. Y. Moving-picture films showing animated drawings issued serially. No. 133,217; July 20; v. 276; p. 589.
Bray Picture Corporation, The, New York, N. Y. Moving-picture films. No. 133,218; July 20; v. 276; p. 589.
Brewster-Goldsmith Corporation, Inc., New York, N. Y. Spark-plugs. No. 133,219; July 20; v. 276; p. 589.
Brophy, Patrick F., Norwalk, Conn. Cleanser for all household cleaning purposes. No. 133,362; July 27; v. 276; p. 767.
Brown Chemical Co., The, St. Louis, Mo. Food-flavoring cream and nutmeg. No. 132,900; July 6; v. 276; p. 199.
Brown, Fred W., Columbus, Ohio. Monthly publication for advertising purposes. No. 133,363; July 27; v. 276; p. 767.
Brown, Fred W., Columbus, Ohio. Monthly publication for advertising purposes. No. 133,364; July 27; v. 276; p. 767.
Brownell & Company, Moodus, Conn. Maltre-cord. No. 132,901; July 6; v. 276; p. 199.
Brubaker, W. L., & Bros., Millersburg, Pa. Staybolt-taps. No. 133,220; July 20; v. 276; p. 589.
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Bowling-balls. No. 132,902; July 6; v. 276; p. 200.
Bulova, J., Company, New York, N. Y. Watches for men and ladies. Nos. 132,903–6; July 6; v. 276; p. 200.
Burckett, Maxwell K., Newark, N. J. Monthly magazine. No. 133,365; July 27; v. 276; p. 767.
Burnett-Larsh Manufacturing Company, The, Dayton, Ohio. Explosive-engines and parts therefor. No. 133,221; July 20; v. 276; p. 589.
Burton Brothers, Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making the same, colors and flavors in preparation thereof. No. 133,366; July 27; v. 276; p. 767.
Burton, Oliver M., Chicago, Ill. Toys. No. 133,105; July 13; v. 276; p. 401.
Bury Compressor Company, Erie, Pa. Compressor-valves. No. 133,106; July 13; v. 276; p. 401.
Bussman Manufacturing Company, St. Louis, Mo. Electric fuses and cut-outs. No. 132,907; July 6; v. 276; p. 200.
Butler, Leon E., Chicago, Ill. Toy molds and molding-wax for same. No. 133,367; July 27; v. 276; p. 767.
Butterick Publishing Company, The, New York, N. Y. Weekly periodical or magazine. No. 133,368; July 27; v. 276; p. 767.
Calco Chemical Company, The, Boundbrook, N. J. Medicinal preparations used in the treatment of certain named ailments. No. 133,369; July 27; v. 276; p. 767.
California Packing Corporation, San Francisco, Calif. Canned vegetables. No. 133,222; July 20; v. 276; p. 589.
Campe Corporation, The, New York, N. Y. Bathing-suits sweaters, and jerseys. No. 133,223; July 20; v. 276; p. 589.
Cannizzaro, P., & Co., Inc., New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco. No. 133,370; July 27; v. 276; p. 767.
Canton-Blackstone Company, Canton, Ohio. Rubber tires, rubber-tire casings, and inner tubes. No. 133,224; July 20; v. 276; p. 589.
Cargill, J. Ralston, Americus, Ga. Table-syrup. No. 133,371; July 27; v. 276; p. 767.
Carnick, G. W., Co., New York, N. Y. Medicinal tablet for the treatment of malaria. No. 133,372; July 27; v. 276; p. 767.
Carroll, T. L., Company, Gothenburg, Nebr. Wheat-flour. No. 132,908; July 6; v. 276; p. 200.
Carver-Beaver Yarn Co., Inc., New York, N. Y. Knitting-yarn. No. 132,909; July 6; v. 276; p. 200.
Celite Products Company, Los Angeles, Calif., and New York, N. Y. Construction material. No. 133,225; July 20; v. 276; p. 589.
Chance, Albert B., Centralia, Mo. Piston-rings. No. 133,373; July 27; v. 276; p. 767.
Chapman, Frank, Providence, R. I. Alcohol-stoves. No. 132,910; July 6; v. 276; p. 200.
Chapman & Smith Company, Chicago, Ill. Baking-powder. No. 133,374; July 27; v. 276; p. 767.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 132,911; July 6; v. 276; p. 200.
Cherry Tree Machine Company, Cherry Tree borough, Pa. Electrical apparatus, machines, and supplies. No. 133,107; July 13; v. 276; p. 401.
Chicago Pneumatic Tool Company, Chicago, Ill. Cutlery, machinery, and tools, and parts thereof. No. 133,108; July 13; v. 276; p. 401.
Chicago Pneumatic Tool Company, Chicago, Ill. Belting, hose, machinery packing, and non-metallic tires. No. 133,226; July 20; v. 276; p. 589.
Chinook Lumber & Shingle Co., Seattle, Wash. Shingles. No. 133,227; July 20; v. 276; p. 589.
Christoforides, John, London, England. Cigarettes. No. 133,383; July 27; v. 276; p. 768.
Ciaco, Inc., New York, N. Y. Clothing. No. 133,109; July 13; v. 276; p. 401.
Clark, W. L., Company, Inc., New York, N. Y. Advertising apparatus. No. 133,384; July 27; v. 276; p. 768.
Class Journal Corporation, Seattle, Wash. Monthly periodical magazines. Nos. 133,385–6; July 27; v. 276; p. 768.
Cleveland, Alfred F., Cambridge, Mass. Washing compound. No. 133,387; July 27; v. 276; p. 768.
Cleveland-Akron Bag Co., The, Cleveland, Ohio. Construction material. No. 133,228; July 20; v. 276; p. 590.
Cleveland-Akron Bag Company, The, Cleveland, Ohio. Composition strips and sheets for building and roofing purposes. No. 133,229; July 20; v. 276; p. 590.
Cohen, Goldman & Co. Inc., New York, N. Y. Men's and children's outer garments, automobile-coats, bath-wraps, &c. No. 132,912; July 6; v. 276; p. 200.
Coleman, Walter M., Baltimore, Md. Games played with cards. No. 133,389; July 27; v. 276; p. 768.
Colman, C. A., Company, New York, N. Y. Certain named textiles in the piece. No. 133,388; July 27; v. 276; p. 768.

Colonial Works, Brooklyn, N. Y. Flat wall oil-paints, wood-stains, enamel and ready-mixed paints. No. 133,390; July 27; v. 276; p. 768.

Commerce Publications Company Inc., New York, N. Y. Monthly magazines. No. 133,391; July 27; v. 276; p. 768.

Commercial Milling Co., The, Detroit, Mich. Wheat-flour. No. 133,230; July 20; v. 276; p. 590.

Commonwealth Thread Co. Inc., Boston, Mass. Thread used in the manufacture of shoes and known as "shoe-thread." Nos. 132,913–14; July 6; v. 276; p. 200.

Computing Cheese Cutter Co., Anderson, Ind. Computing cheese-cutters. No. 133,110; July 13; v. 276; p. 401.

Conard & Jones Company, The, West Grove, Pa. Rose-plants. No. 132,915; July 6; v. 276; p. 200.

Connecticut Electric Steel Co., Inc., Hartford, Conn. Wrought tool-steel, steel, iron, &c. No. 132,916; July 6; v. 276; p. 200.

Continental Seed Company, Chicago, Ill. Grass and field seeds. No. 132,917; July 6; v. 276; p. 200.

Converse Supply Company, The, Converse, Mo. Liniments, lotions, salves, &c., used in treating horses and cattle. No. 132,918; July 6; v. 276; p. 200.

Cooper, Jack, New York, N. Y. Sweat-cabinet and an exercising apparatus. No. 132,919; July 6; v. 276; p. 200.

Coral Manufacturing Company, The, Norristown, Pa. Carpets and rugs formed of rags, cotton, &c. Nos. 133,392–4; July 27; v. 276; p. 768.

Corno Mills Company, The, St. Louis, Mo. Rolled oats. No. 133,395; July 27; v. 276; p. 768.

Corrosanti Chemical Co. Inc., Newark, N. J. Anticorrosive paint. No. 133,231; July 20; v. 276; p. 590.

Cortland Line Co. Inc., Cortland, N. Y. Fishing-lines. No. 132,920; July 6; v. 276; p. 200.

Courtney, Robert A., Baltimore, Md. Blood-remedy compound, vegetable and mineral. No. 133,396; July 27; v. 276; p. 768.

Crane, Clarence A., Cleveland, Ohio. Candy. No. 132,921; July 6; v. 276; p. 200.

Crane, Clarence A., Cleveland, Ohio. Candy. No. 133,111; July 13; v. 276; p. 401.

Crocker Broom and Brush Co., Chicago, Ill. Brooms. No. 132,922; July 6; v. 276; p. 200.

Crockett, Albert S., New York, N. Y. Ouija-boards. No. 133,112; July 13; v. 276; p. 401.

Crown Packing Company, Los Angeles, Calif. Fresh vegetables. No. 132,923; July 6; v. 276; p. 200.

Cumberland (Aylestone), Limited, Leicester, England. Fishing rods, hooks, nets, lines, &c. No. 132,924; July 6; v. 276; p. 200.

Cutler Desk Co., Buffalo, N. Y. Certain named office furniture. No. 133,397; July 27; v. 276; p. 768.

Dalton Hosiery Mills, Dalton, Ga. Hosiery. No. 133,232; July 20; v. 276; p. 590.

Darst, James C., Portsmouth, Va. Pockets for garments. No. 133,398; July 27; v. 276; p. 768.

Davidson Leroy E., Buffalo, N. Y. Moving-picture films. No. 133,233; July 20; v. 276; p. 590.

Davis, Charles C., Chicago, Ill. Clothes lines. No. 132,925; July 6; v. 276; p. 200.

Davis, Charles C., Chicago, Ill. Twines, string, and cordage, of cotton, jute, hemp, and flax. No. 133,113; July 13; v. 276; p. 401.

Davis, Lester H., Lindsborg, Kans. Coffee. No. 132,926; July 6; v. 276; p. 200.

De Beer, J. & Son, Albany, N. Y. Baseballs. No. 133,114; July 13; v. 276; p. 401.

De Milo Distributing Co., New York, N. Y. Knitted underwear. No. 133,234; July 20; v. 274; p. 590.

Dental Products Company, Chicago, Ill. Surgical appliances. No. 133,115; July 13; v. 276; p. 401.

De Pilis, F. A., Mattoax, Va. Cigars, cigarettes, chewing and smoking tobacco. No. 133,399; July 27; v. 276; p. 768.

Designers Instrument Company, Chicago, Ill. Intermittent fountain-ruling-pens. No. 133,235; July 20; v. 276; p. 590.

Detroit Soluble Oil Co., Detroit, Mich. Core-oils and adhesive core compounds. No. 133,116; July 13; v. 276; p. 401.

Dew Valve Co., Inc., New York, N. Y. Automatic relief-valves for steam-engine cylinders. No. 132,927; July 6; v. 276; p. 200.

Diller Mfg. Co., The, Bluffton, Ohio. Fireless cookers. No. 132,928; July 6; v. 276; p. 200.

Distinctive Jewelry Co. Inc., New York, N. Y. Jewelry for personal wear, not including watches. No. 132,929; July 6; v. 276; p. 200.

Dockendorff, J. E. & Co. Inc., New York, N. Y. Electrical apparatus, machines, and supplies. No. 133,117; July 13; v. 276; p. 401.

Dockendorff, J. E. & Co. Inc., New York, N. Y. Electrical supplies. Nos. 133,118–9; July 13; v. 276; p. 401.

Dockendorff, J. E., & Co. Inc., New York, N. Y. Nickel-manganese-alloy wire for electrical purposes. No. 133,120; July 13; v. 276; p. 401.

Dodd, Philip S., Babylon, N. Y. Composition packing. No. 133,121; July 13; v. 276; p. 401.

Don-O-Lac Co., Inc., The, Rochester, N. Y. Prepared liquid varnish resembling shellac. No. 133,236; July 20; v. 276; p. 590.

Draper, Thomas B., Oakland, Calif. Convertible furniture. No. 133,400; July 27; v. 276; p. 768.

Driver-Harris Company, Harrison, N. J. Wire and metallic strips of an alloy containing manganese. No. 133,237; July 20; v. 276; p. 590.

Dry Milk Company, The, New York, N. Y. Dry milk. No. 133,122; July 13; v. 276; p. 401.

Dubois Watch Case Company, Brooklyn, N. Y. Watches. No. 132,930; July 6; v. 276; p. 200.

Dungan, Hood & Co., Inc., Philadelphia, Pa. Leather and particularly kid leather. No. 132,931; July 6; v. 276; p. 200.

Dunham Company, The, Berea, Ohio. Soil-tilling machines. No. 133,401; July 27; v. 276; p. 768.

Dunham Company, The, Berea, Ohio. Earth-working implements—namely, corrugated rollers and soil-pulverizers. No. 133,402; July 27; v. 276; p. 768.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Granular and gelatinous explosives. No. 133,238; July 20; v. 276; p. 590.

Dural Rubber Corporation, Flemington, N. J. Inner tubes for vehicle-tires. No. 133,123; July 13; v. 276; p. 401.

Duttenhofer-Stevens Co., The, Cincinnati, Ohio. Women's high and low shoes of leather and cloth. No. 132,932; July 6; v. 276; p. 200.

Dyer, W. H., Company, Evansville, Ind. Fruit jam, preserves, jelly, and table-syrup. No. 132,933; July 6; v. 276; p. 200.

Eastern Brass and Ingot Corporation, Chicago, Ill. Non-ferrous metal ingots. No. 133,124; July 13; v. 276; p. 401.

Eastman Kodak Company, The, Rochester, N. Y. Photographic film. No. 133,125; July 13; v. 276; p. 401.

Edison Storage Battery Company, West Orange, N. J. Pamphlets and booklets issued quarterly. No. 133,403; July 27; v. 276; p. 768.

Eichenfeld, Daniel, Tulsa, Okla. Wooden pipes and splicings. No. 133,239; July 20; v. 276; p. 590.

Eiseman, Samuel, & Co., New York, N. Y. Silk piece goods. No. 133,240; July 20; v. 276; p. 590.

Electric Auto-Lite Corporation, Toledo, Ohio. Electric light and power plants, equipment, and parts thereof. No. 133,404; July 27; v. 276; p. 768.

Ely & Walker Dry Goods Company, St. Louis, Mo. Pajamas and nightgowns. No. 133,241; July 20; v. 276; p. 590.

Ely & Walker, D. G. Co., St. Louis, Mo. Laces and embroideries in the piece. No. 133,405; July 27; v. 276; p. 768.

Emanuel & Woodward, New York, N. Y. Cigarettes. No. 133,544; July 27; v. 276; p. 772.

Embroiderers' Publishing Corporation, New York, N. Y. Weekly publication. No. 133,406; July 27; v. 276; p. 768.

Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 133,407; July 27; v. 276; p. 768.

Energy Electric Company, Haverhill, Mass. Arc and incandescent electric lamps. No. 132,934; July 6; v. 276; p. 201.

Evans, David G., Coffee Co., St. Louis, Mo. Coffee, tea, spices, salad oil and dressing, and flavoring extracts. No. 132,935; July 6; v. 276; p. 201.

Everett Knitting Works, Lebanon, N. H. Men's, women's, and children's knitted underwear. No. 133,126; July 13; v. 276; p. 401.

Faber, Edmund J., St. Louis, Mo. Ventilating seat-pads. No. 133,242; July 20; v. 276; p. 590.

Fair, The, Chicago, Ill. Hosiery. No. 133,127; July 13; v. 276; p. 402.

Fairchild Company, Chicago, Ill. Semimonthly publication. No. 133,410; July 27; v. 276; p. 768.

Faire Bros. & Co., Limited, Leicester, England. Elastic webs. Nos. 132,936–7; July 6; v. 276; p. 201.

Faire Bros. & Co., Limited, Leicester, England. Elastic webs. No. 133,408; July 27; v. 276; p. 768.

Faire Bros. & Co. Limited, Leicester, England. Elastic webs. No. 133,411; July 27; v 276; p 768

Fairmont Beverage Co, Cincinnati, Ohio. Non-intoxicating cereal beverage. No. 133,409; July 27; v. 276; p. 768.

Farm Equipment Co., The, Baltimore, Md. Hardware and plumbing and steam fitting supplies. No. 133,243; July 20; v. 276; p. 590.

Farrer, Charles M., Seattle, Wash. Doll-buggies. No. 132,938; July 6; v. 276; p. 201.

Fearing, Whiton & Co., Boston, Mass. Cotton piece goods. No. 133,128; July 13; v. 276; p. 402.

Federal Sugar Refining Company, Yonkers and New York, N. Y. Granulated cane-sugar. No. 133,412; July 27; v. 276; p. 768

Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and steel. No. 133,129; July 13; v. 276; p. 402.

Ferdinand Gutmann & Co., New York, N. Y. Toy soldiers, dishes, and furniture. No. 132,954; July 6; v. 276; p. 201.

Ferguson, H. K., Company, Cleveland, Ohio. Permanent buildings and structural elements thereof. No. 133,244; July 20; v. 276; p. 590.

Field, Marshall, & Company, Chicago, Ill. Draperies and decorative fabrics. No. 133,279; July 20; v. 276; p. 591.

Fink, Geo. A., Co., New York, N. Y. Brooms, brushes, and mops. No. 132,939; July 6; v. 276; p. 201.

Fisher, William J., & Co., Boston, Mass. Cigars. No. 133,413; July 27; v. 276; p. 768.

Flint, George, Philadelphia, Pa. Artificial teeth. No. 132,940; July 6; v. 276; p. 201.

Florman, Irving, New York, N. Y. Flexible protective facings or coverings for watch and clock dials. No. 132,941; July 6; v. 276; p. 201.

Formby Petrinite Corporation, Jacksonville, Fla. Tile, brick, and artificial stone. No. 133,245; July 20; v. 276; p. 590.

Fort Pitt Malleable Iron Co., Pittsburgh and McKees Rocks, Pa. Malleable-iron castings. No. 132,942; July 6; v. 276; p. 201.

Forward Sparking Plug Co., Birmingham, England. Sparking plugs for internal-combustion engines. No. 132,943; July 6; v. 276; p. 201.

Fowler Nail Co., The, Seymour, Conn. Molder's nails, used in metal foundries. No. 133,130; July 13; v. 276; p. 402.

Foulds-Briggs Co., Cincinnati, Ohio. Macaroni, spaghetti, noodles. No. 133,414; July 27; v. 276; p. 768.

Framingham Manufacturing Company, Framingham, Mass. Metal valves for general use, pump-governors, and pressure-reducing valves. No. 132,944; July 6; v. 276; p. 201.

Frank, Maurice, New York, N. Y. Bales or bags of waste cotton, silk, and woolen rags and waste paper. No. 132,945; July 6; v. 276; p. 201.

Fredericks, Maurice B., New York, N. Y. Paper fiber. No. 132,946; July 6; v. 276; p. 201.

French Battery & Carbon Co., Madison, Wis. Dry-cell batteries. No. 132,947; July 6; v. 276; p. 201.

Friedman-Haas Co., The, Cleveland, Ohio. Dresses and skirts. No. 123,246; July 20; v. 276; p. 590.

Frishmuth Bro. & Company, Incorporated, Philadelphia, Pa. Cigarettes. No. 133,415; July 27; v. 276; p. 768.

Garcia, Alvaro, New York, N. Y. Cigars. No. 133,247; July 20; v. 276; p. 590.

Gavey, William S., New York, N. Y. Textile fabrics. No. 133,248; July 20; v. 276; p. 590.

Gemco Manufacturing Company, Milwaukee, Wis. Automobile and motor-cycle accessories. No. 133,416; July 27; v. 276; p. 768.

General American Tank Car Corporation, Chicago, Ill. Tank-cars. No. 132,948; July 6; v. 276; p. 201.

General Electric Company, Schenectady, N. Y. Electric incandescent lamps. No. 132,949; July 6; v. 276; p. 201.

George, Maude S., St. Louis, Mo. Sanitary goods for hospitals and home use. No. 133,131; July 13; v. 276; p. 402.

Giglio, Angelo, New York, N. Y. Powder-puffs. No. 132,950; July 6; v. 276; p. 201.

Gilbert, A. C., Company, New Haven, Conn. Games and toys. No. 133,132; July 13; v. 276; p. 402.

Gilcrease, Leonard L., Reno, Nev. Machinery and tools and parts thereof. No. 133,133; July 13; v. 276; p. 402.

Globe Printing Company, St. Louis, Mo. Title for Sunday newspaper pictorial section. No. 133,417; July 27; v. 276; p. 769.

Goodrich, B. F., Company, The, New York, N. Y. Printing-press inking-rollers. No. 133,249; July 20; v. 276; p. 590.

Gorton Chocolate Co., Inc., The, Corning, N. Y. Chocolate candies. No. 133,418; July 27; v. 276; p. 768.

Granitex Company, Inc., New York, N. Y. Preparation for hardening and waterproofing cement mixtures. No. 133,250; July 20; v. 276; p. 590.

Grant, W. T., Co., New York, N. Y. Hosiery. No. 132,951; July 6; v. 276; p. 201.

Grayson, J. H., Mfg. Co., Athens, Ohio. Gas-heaters and parts thereof. No. 133,134; July 13; v. 276; p. 402.

Greenpoint-Southern Company, Inc., Long Island City, N. Y. Mattresses, pillows, bed and box springs. No. 133,251; July 20; v. 276; p. 590.

Griswold Manufacturing Company, The, Erie, Pa. Food-choppers, combination meat and food cutters, fruit and lard presses, and tobacco-cutters. No. 133,135; July 13; v. 276; p. 402.

Gross, Samuel I., New York, N. Y. Handkerchiefs. No. 132,952; July 6; v. 276; p. 201.

Gruen, D., Sons & Company, The, Cincinnati, Ohio. Watches. No. 132,953; July 6; v. 276; p. 201.

Guiterman Rosenfeld Company, New York, N. Y. Clothing. No. 133,252; July 20; v. 276; p. 590.

Gulesian, Selden J., Revere, Mass. Hardware and plumbing and steam-fitting supplies. No. 133,253; July 20; v. 276; p. 590.

Gutmann, Henri, Silks Corporation, New York, N. Y. Silk goods in the piece. No. 133,427; July 27; v. 276; p. 769.

Haanel, Charles F., St. Louis, Mo. Printed books, booklets, &c., issued from time to time. No. 133,419; July 27; v. 276; p. 769.

Hadden Automatic Sprinkler Company, Los Angeles, Calif. Lawn and garden sprinkling and horticultural irrigation systems, &c. No. 133,136; July 13; v. 276; p. 402.

Hadley, Samuel H., New York, N. Y. Moving-picture film. No. 133,137; July 13; v. 276; p. 402.

Haeuser, A. R., Co., New York, N. Y. Ready-mixed paints, paint-oils, varnishes, shellacs, lacquers, &c. No. 133,254; July 20; v. 276; p. 590.

Halle-Perris Trading Corporation, New York, N. Y. Cigarettes. Nos. 133,420–1; July 27; v. 276; p. 769.

Hallgren, Carl E., Rock Island, Ill., and Davenport, Iowa. Moving-picture films. No. 133,138; July 13; v. 276; p. 402.

Hammer-Bray Co., Oakland, Calif. Heating, lighting, and ventilating apparatus. No. 133,139; July 13; v. 276; p. 402.

Hand Knit Hosiery Co., Sheboygan, Wis. Certain named garments for men, women, and children. No. 133,422; July 27; v. 276; p. 769.

Handley Page Limited, London, England. Blank name and instruction plates. No. 132,955; July 6; v. 276; p. 201.

Harkert Cigar Co., The, Davenport, Iowa. Cigars. No. 133,255; July 20; v. 276; p. 590.

Harley, E. C., Company, The, Dayton, Ohio. Coffee. Nos. 132,957–8; July 6; v. 276; p. 201.

Harrod's Stores, Limited, London, England. Carpets. No. 132,959; July 6; v. 276; p. 201.

Hartzell, Earl F., Pittsburgh, Pa. Powdered graphite. No. 133,425; July 27; v. 276; p. 769.

Harris, Milton, Cincinnati, Ohio. Pajamas, union-pajamas, sleeping and lounging garments, and night-shirts. No. 133,256; July 20; v. 276; p. 590.

Hart & Hutchinson Company, The, New Britain, Conn. Steel cabinets for storage and filing purposes. No. 133,257; July 20; v. 276; p. 590.

Hartmann Brothers, Inc., New York, N. Y. Hair-nets. No. 133,258; July 20; v. 276; p. 590.

Hasel, Leo, San Francisco, Calif. Heel and toe plates for shoes. No. 132,960; July 6; v. 276; p. 201.

Haskins, R. G., Company, Chicago, Ill. Electrically-operated grinders for millstones. No. 133,140; July 13; v. 276; p. 402.

Havens, Clara V., New York, N. Y. Brassières. No. 132,961; July 6; v. 276; p. 201.

Hawley & Hoops, New York, N. Y. Candles. No. 132,970; July 6; v. 276; p. 202.

Hemp & Co. (Corp.), St. Louis, Mo. Stovepipes and stovepipe-elbows. Nos. 132,962–4; July 6; v. 276; p. 201.

Hemp and Co., (Corp.) St. Louis, Mo. Stovepipe and stovepipe-elbows. No. 133,426; July 27; v. 276; p. 769.

Hepworth, S. S., Company, New York, N. Y. Centrifugal driers, filters, and separators and parts thereof. No. 133,259; July 20; v. 276; p. 590.

Herbert Packing Co. Inc., San Jose, Calif. Canned fruits and vegetables. Nos. 132,965–6; July 6; v. 276; p. 201.

Herculean Products Company, Newark, N. J. Complete toilet and manicure sets and component parts thereof. Nos. 133,141–2; July 13; v. 276; p. 402.

Hessberg, Morris & Gunst, Inc., Baltimore, Md. Boys' suits. No. 133,260; July 20; v. 276; p. 591.

Higginbotham-Bailey-Logan Company, Dallas, Tex., and New York, N. Y. Middy-blouses and envelop-chemise. No. 133,429; July 27; v. 276; p. 769.

Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 133,143; July 13; v. 276; p. 402.

Hodgson Oil Refining Co., Athens, Ga. Lard substitute. No. 133,261; July 20; v. 276; p. 591.

Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. Nos. 132,967–8; July 6; v. 276; p. 202.

Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. No. 133,428; July 27; v. 276; p. 769.

Holophane Glass Company, Inc., New York, N. Y. Glass globes and reflectors for artificial light. No. 133,430; July 27; v. 276; p. 769.

Hommel, Wm. H., Sandusky, Ohio. Non-alcoholic wines and champagnes. No. 133,431; July 27; v. 276; p. 769.

Hood, Fitz-James, Bartow, Fla. Card games. No. 132,969; July 6; v. 276; p. 202.

Hope Webbing Company, Pawtucket, R. I. Webbing in the piece. No. 133,432; July 27; v. 276; p. 769.

Howard-Hulme-Dittrich Shoe Co., Carthage, Mo. Children's, misses', and girls' leather shoes and slippers. No. 133,433; July 27; v. 276; p. 769.

Howland and Dewey Company, Los Angeles, Calif. Photographic prints. No. 133,434; July 27; v. 276; p. 769.

Howson, Henry, Glenmore, Pa. Corn products, oatmeal, wheat-flour, and prepared feeds for cattle. No. 132,971; July 6; v. 276; p. 202.

Hulbert Oil & Grease Co., The, Philadelphia, Pa. Substitute for linseed-oil. No. 133,262; July 20; v. 276; p. 591.

Hunvald, Henry, New York, N. Y. Women's outer garments, except hats. No. 133,435; July 27; v. 276; p. 769.

Ideal Paste & Chemical Works, Cleveland, Ohio. Adhesive paste. No. 132,972; July 6; v. 276; p. 202.

Imperial Belting Company, Chicago, Ill. Belting, hose, machinery packing, &c. No. 133,144; July 13; v. 276; p. 402.

Imperial Belting Company, Chicago, Ill. Belting, hose, machinery packing, and non-metallic tires. No. 133,145; July 13; v. 276; p. 402.

Imperial Electric Co., The, Akron, Ohio. Electrical machinery. No. 132,973; July 6; v. 276; p. 202.

Imperial Knitting Co., Milwaukee, Wis. Sweaters, shawls, scarfs, &c. No. 133,436; July 27; v. 276; p. 769.

Imperial Varnish and Color Company, Limited, The, Toronto, Ontario, Canada. Paints and painters' materials. No. 133,263; July 20; v. 276; p. 591.

Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Cutlery, machinery, and tools and parts thereof. No. 133,147; July 13; v. 276; p. 402.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Rock-drills. No. 133,146; July 13; v. 276; p. 402.
International Coupler Company, Pittsburgh, Pa. Plumbing and steam-fitting supplies. No. 133,148; July 13; v. 276; p. 402.
International Feature Service, Inc., New York, N. Y. Series of comic drawings or pictures. Nos. 133,437–8; July 27; v. 276; p. 769.
International Handkerchief Mfg. Co., The, New York, N. Y. Handkerchiefs. No. 133,439; July 27; v. 276; p. 769.
International Harvester Company, Chicago, Ill. Rope, cord, twine, binder-twine. No. 132,974; July 6; v. 276; p. 202.
Jackson, Edmond, Newport News, Va. Woven textile or fiber floor-mats. No. 132,975; July 6; v. 276; p. 202.
Jacobs, Elliott, New Orleans, La. Medicine for constipation. No. 133,441; July 27; v. 276; p. 769.
Jennings Lace Works Corporation, New York, N. Y. Knitted, netted, and textile fabrics. No. 133,149; July 13; v. 276; p. 402.
Johnson-Bostwick & Co., Minneapolis, Minn. Coats, outer vests, and work-shirts for men. No. 133,264; July 20; v. 276; p. 591.
Johnston Dry Goods Co., Birmingham, Ala. Cloth piece goods. No. 133,442; July 27; v. 276; p. 769.
Johnson Oil Refining Company, Chicago Heights, Ill. Oils and greases. No. 133,150; July 13; v. 276; p. 402.
Johnston, Wm. R., Mfg. Co., Chicago, Ill. Curtain-window for automobile-curtains. No. 132,976; July 6; v. 276; p. 202.
Jones, W. A., Foundry & Machine Co., Chicago, Ill. Spur-gear reducers, worm-gear speed-reducers, power-transmission machinery. No. 133,151; July 13; v. 276; p. 402.
Joseph-Louis & Co., New York, N. Y. Fancy goods, furnishings, and notions. No. 133,265; July 20; v. 276; p. 591.
Kahn Tailoring Company, Indianapolis, Ind. Raincoats. No. 133,443; July 27; v. 276; p. 769.
Kalish, Julius, Inc., New York, N. Y. Preparation used internally in cases of chronic constipation, mucous colitis, &c. No. 133,444; July 27; v. 276; p. 769.
Kampfe Bros., Brooklyn, N. Y. Shaving-brushes. No. 132,977; July 6; v. 276; p. 202.
Karpen, S., & Bro., Chicago, Ill. Furniture-cushions. No. 133,266; July 20; v. 276; p. 591.
Katsman, Louis, Inc., New York, N. Y. Shawl-coat. No. 132,979; July 6; v. 276; p. 202.
Kelsey Textile Corporation, New York, N. Y. Cotton piece goods. No. 133,445; July 27; v. 276; p. 769.
Kent & Purdy Paint Company, St. Louis, Mo. Paints, pigments, colors ground in Japan and oil, oil stains, &c. No. 133,152; July 13; v. 276; p. 402.
Kenyon, C., Company, Brooklyn, N. Y. Rubber tires and tubes. No. 133,153; July 13; v. 276; p. 402.
Kenyon, John, & Co. (Sheffield,) Limited, Sheffield, England. Cutlery, machinery, and tools, and parts thereof. No. 133,267; July 20; v. 276; p. 591.
King, Mrs. A. R., Inc., Philadelphia, Pa. Leather, rubber, and canvas shoes. No. 133,268; July 20; v. 276; p. 591.
King Trailer Company, Ann Arbor, Mich. Semitrailers. No. 132,980; July 6; v. 276; p. 202.
Kirschbaum Company, The, Savannah, Ga. Cigars. No. 133,269; July 20; v. 276; p. 591.
Kitz, Edward G., Oshkosh, Wis. Toy vehicle. No. 132,981; July 6; v. 276; p. 202.
Knickerbocker Watch Co., New York, N. Y. Watches. No. 132,982; July 6; v. 276; p. 202.
Knickerbocker Watch Co., New York, N. Y. Watches. No. 133,154; July 13; v. 276; p. 402.
Knowlton Bros. Inc., Watertown, N. Y. Paper and stationery. No. 133,446; July 27; v. 276; p. 769.
Kraus Products Company, The, Findlay, Ohio. Non-alcoholic beverages. No. 133,447; July 27; v. 276; p. 769.
Krolik, A., & Company, Detroit, Mich., and New York, N. Y. Men's flannel, work, and night shirts and pajamas. No. 132,983; July 6; v. 276; p. 202.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 132,984; July 6; v. 276; p. 202.
L. and T. Company, The, Oakland, Calif. Table-syrup. No. 132,985; July 6; v. 276; p. 202.
La France, Ward, Truck Co. Inc., Elmira, N. Y. Motor-trucks. No. 133,086; July 6; v. 276; p. 205.
Langfelder & Shrier, New York, N. Y. Dresses. No. 133,270; July 20; v. 276; p. 591.
Lapeyre, Ben E., Great Falls, Mont. Toilet cream. No. 133,155; July 13; v. 276; p. 402.
La Rose Company, St. Louis, Mo. Ladies' shirt-waists. No. 133,444; July 27; v. 276; p. 769.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Wheat-flour. No. 132,986; July 6; v. 276; p. 202.
Leach Patch Company, The, Indianapolis, Ind. Tube-patches. No. 133,156; July 13; v. 276; p. 402.
Leavitt Mfg. Co., Urbana, Ill. Portable seats known as bleachers. No. 133,450; July 27; v. 276; p. 770.
Lehon Company, The, Chicago, Ill. Construction material. No. 133,271; July 20; v. 276; p. 591.
Leitner, Henry, and William H. Exley, London, England. Electric accumulators or secondary batteries. No. 132,987; July 6; v. 276; p. 202.
Lee, Harry C., & Company, Inc., New York, N. Y. Golf-balls. No. 133,424; July 27; v. 276; p. 769.
Leoffler, S. G., Jr., Washington, D. C. Doughnuts. No. 132,988; July 6; v. 276; p. 202.
Lesher, Whitman & Co. Inc., New York, N. Y. Fabric made with cotton warp and filling of wool, mohair, &c. No. 132,989; July 6; v. 276; p. 202.
Lev, Abraham, Philadelphia, Pa. Medicine for gout and certain named ailments. No. 133,451; July 27; v. 267; p. 770.
Levy, Maurice, New York, N. Y. Toothbrushes. No. 132,990; July 6; v. 276; p. 202.
Lewis, J. L., New York, N. Y. Collodion self-toning printing-out paper. No. 133,157; July 13; v. 276; p. 403.
Liberty Boys' Knee Pants Co., New York, N. Y. Boys' pants and coats. No. 133,452; July 27; v. 276; p. 770.
Liberty Steel Products Company, Inc., New York, N. Y. Steel buildings. No. 133,453; July 27; v. 276; p. 770.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 133,272; July 20; v. 276; p. 591.
Liggett & Myers Tobacco Company, New York, N. Y. Tobacco and cigarettes. No. 133,454; July 27; v. 276; p. 770.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 133,455; July 27; v. 276; p. 770.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 132,991; July 6; v. 276; p. 202.
Lorenzen, Chas F., & Co., Chicago, Ill. Letters or numbers made of highly-glazed porcelain blocks. Nos. 132,992–3; July 6; v. 276; p. 202.
Lorenzen, Chas. F., & Co., Chicago, Ill. Letters or numbers made of highly-glazed porcelain blocks. No. 133,273; July 20; v. 276; p. 591.
Lorillard, P., Company, New York, N. Y. Cigars, little cigars, and cigarettes. No. 133,489; July 27; v. 276; p. 771.
Los Angeles Examiner, Los Angeles, Calif. Newspaper-sections. Nos. 133,456–8; July 27; v. 276; p. 770.
Loudenslager, J. E., Littleton, W. Va. Scalp, face, and skin treatment liquids and pile-remedy ointment. No. 133,459; July 27; v. 276; p. 770.
Lyons, Arthur H., Philadelphia, Pa. Storage batteries and parts thereof. Nos. 132,994–5; July 6; v. 276; p. 202.
Lyndeman, Henry J. F., Pittsburgh, Pa. Bricks and building-blocks. No. 133,274; July 20; v. 276; p. 591.
Lukens, C. Dewitt, Surgical Manufacturing Co., St. Louis, Mo. Dental, medical, and surgical appliances. No. 130,158; July 13; v. 276; p. 403.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. Nos. 133,159–60; July 13; v. 276; p. 403.
Lunkenheimer Co., The, Cincinnati, Ohio. Mechanical lubricators. No. 133,161; July 13; v. 276; p. 403.
Mab Cleaner Manufacturing Company, Salt Lake City, Utah. Washing compound. No. 133,460; July 27; v. 276; p. 770.
Macy, R. H., & Co., Inc., New York, N. Y. Women's, misses', and children's dresses. No. 133,275; July 20; v. 276; p. 591.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 133,461; July 27; v. 276; p. 770.
Mangrané, Daniel, Barcelona, Spain. Olive oil. Nos. 133,276–7; July 20; v. 276; p. 591.
Manufacturers Record Publishing Company, Baltimore, Md. A weekly magazine. No. 133,462; July 27; v. 276; p. 770.
Marans, Morris, Sons, New York, N. Y. Men's and young men's clothes. No. 133,278; July 20; v. 276; p. 591.
Marcus, Michael, New York, N. Y. Brooms and brushes. No. 132,997; July 6; v. 276; p. 202.
Mason Tire & Rubber Co., Kent, Ohio. Tires and tubes for automobiles and trucks. No. 133,162; July 13; v. 276; p. 403.
Metals & Thermit Corporation, Chrome, N. J. Tungsten. No. 133,163; July 13; v. 276; p. 403.
Matheson, Walker, Company, Joliet, Ill. Cigars. No. 133,539; July 27; v. 276; p. 772.
Matthews Engineering Co., The, Sandusky, Ohio. Unitary electric plants. No. 132,998; July 6; v. 276; p. 202.
Mauser, John J., Sanford, Fla., Cigars. No. 133,280; July 20; v. 276; p. 591.
Maxwell-Ray Company, Milwaukee, Wis. Electric lamps. No. 132,999; July 6; v. 276; p. 202.
Marclese, New York, N. Y. Clock-dial. No. 133,000; July 6; v. 276; p. 202.
Mayer & Goldsmith, New York, N. Y. Trimmed and untrimmed hats. No. 133,463; July 27; v. 276; p. 770.
Mayo-Skinner Mfg. Company, Chicago, Ill. Hand-operated tire-pumps. No. 133,281; July 20; v. 276; p. 591.
Mazzel Skirt Co. Inc., New York, N. Y. Skirts. No. 133,282; July 20; v. 276; p. 591.
McIntosh Battery & Optical Co., Chicago, Ill. Electro-medical switchboard for electric-bath use. No. 132,996; July 6; v. 276; p. 2020.
Medart, Fred, Mfg. Co., St. Louis, Mo. Playground and gymnasium apparatus. No. 133,464; July 27; v. 276; p. 770.
Memser, Joseph, New York, N. Y. Gowns. No. 133,007; July 6; v. 276; p. 203.
Meyer, Geo. J., Manufacturing Co., Milwaukee, Wis. Bottle-washing machines. No. 133,164; July 13; v. 276; p. 403.

Meyrowitz, E. B., Inc., New York, N. N. Mechanical devices as an aid to hearing. No. 133,001; July 6; v. 276; p. 203.
Messayeh, Rizouk D., New York, N. Y. Cigarettes. No. 133,465; July 27; v. 276; p. 770.
Metropol, Jack G., Manning, S. C. Non-alcoholic non-intoxicating non-cereal malt-less beverage. No. 133,440; July 27; v. 276; p. 769.
Michigan Service Corporation, Jackson, Mich. Coal-burning heaters and furnaces. No. 133,002; July 6; v. 276; p. 203.
Migel, J. A., Inc., New York, N. Y. Piece goods. No. 133,003; July 6; v. 276; p. 203.
Migel, J. A., Inc., New York, N. Y. Clothing for ladies, misses, and children. No. 133,283; July 20; v. 276; p. 591.
Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 133,466; July 27; v. 276; p. 770.
Miller Lock Company, Philadelphia, Pa. Locks. No. 133,284; July 20; v. 276; p. 591.
Miller Rubber Co., The, Akron, Ohio. Water-bottles, syringe-bags, combination-syringes, and rubber tubes. No. 133,005; July 6; v. 276; p. 203.
Miller Rubber Company, The, Akron, Ohio. Rubber water-bags and bottles. No. 133,004; July 6; v. 276; p. 203.
Miller, Stanley G., Chicago, Ill. Yearly interest-tables. No. 133,467; July 27; v. 276; p. 770.
Minnesota Tobacco Company, Duluth, Minn. Cigarettes. No. 133,465; July 27; v. 276; p. 770.
Mitchell Hosiery Company, Columbus, Ohio. Hosiery. No. 133,470; July 27; v. 276; p. 770.
Mitchell, T. J. & Co., Inc., New York, N. Y. Silk goods in the piece. No. 133,469; July 27; v. 276; p. 770.
Mittelman, I., & Co., New York, N. Y. Ladies' and children's dresses. No. 133,286; July 20; v. 276; p. 591.
Monarch Leather Company, Chicago, Ill. Leather. Nos 133,471–2; July 27; v. 276; p. 770.
Moore, Edward, New York, N. Y. Miniature theaters. No. 113,165; July 13; v. 276; p. 403.
Moore Electric Corporation, The, Chicago, Ill. Electric hair-clippers, motors, and hair-driers. No. 133,006; July 6; v. 276; p. 203.
Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Knit gloves. No. 133,166; July 13; v. 276; p. 403.
Motor-Car Supplies Manufacturing Company, Denver, Colo. Dressing for fabrics and leather. No. 133,473; July 27; v. 276; p. 770.
Moulton, Mace, Jr., Boston, Mass. Prepared bituminous concrete. No. 133,287; July 20; v. 276; p. 591.
Mowbray & Robinson Company, Wilmington, Del., and Cincinnati, Ohio. Lumber and hardwood flooring. No. 133,288; July 20; v. 276; p. 591.
Mulholland, John H., Philadelphia, Pa. Wooden spoons. No. 133,167; July 13; v. 276; p. 403.
Nathan and Cohen Co., New York, N. Y. Silk-filled crêpe-de-chine piece goods. No. 133,289; July 20; v. 276; p. 591.
National Brass Company, Grand Rapids, Mich. Hard ware supplies. No. 133,168; July 13; v. 276; p. 403.
National Building Company, The, Cleveland, Ohio. Composition for making concrete slabs. No. 133,290; July 20; v. 276; p. 591.
National Cash Register Company, Dayton, Ohio. Filing-cabinets and parts of same. No. 133,291; July 20; v. 276; p. 591.
National Council of Traveling Salesmen's Associations, New York, N. Y. Trade publication. No. 133,474; July 27; v. 276; p. 770.
National Equipment Company, Springfield, Mass. Cutlery, machinery, and tools, and parts thereof. No. 133,169; v. 276; p. 403.
National Geographic Society, Washington, D. C. Printed sheets. No. 133,170; July 13; v. 276; p. 403.
Neustadter Brothers, San Francisco, Calif. Woven and knitted union-suits for men, women, and children. No. 133,008; July 6; v. 276; p. 203.
New Britain Machine Company, The, New Britain, Conn. Screw and chucking machines. No. 133,171; July 13; v. 276; p. 403.
New Toy Co., Inc., New York, N. Y. Dolls. No. 133,173; July 13; v. 276; p. 403.
New York Boys' Shops, Inc., New York, N. Y. Boys' clothing and wearing-apparel. No. 133,292; July 20; v. 276; p. 591.
New York Times Company, New York, N. Y. Photographs and reprints thereof. Nos. 133,475–6; July 27; v. 276; p. 770.
Newton Broom Co., Newton, Ill. Brooms. No. 133,009; July 6; v. 276; p. 203.
Newton, Robert W., Providence, R. I. Automatic sprinklers. No. 133,172; July 13; v. 276; p. 403.
Niagara Wall Board Company Incorporated, Buffalo, N. Y. Wall and sheathing boards, building-paper. No. 133,477; July 27; v. 276; p. 770.
Noble, Charles, Jr., Company, Buffalo, N. Y. Prepared sea foods. No. 133,174; July 13; v. 276; p. 403.
Noonan, T., & Sons Company, Boston, Mass. Complexion-cream. No. 133,478; July 27; v. 276; p. 770.
Nordhem, Ivan B., Company, New York, N. Y. Ice-cream. No. 133,293; July 20; v. 276; p. 591.
Northam Warren Corporation, New York, N. Y. Manicure sets sold as a unit. No. 133,010; July 6; v. 276; p. 203.
Northwestern Candy Company, Waterloo, Iowa. Candied nut-bars. No. 133,011; July 6; v. 276; p. 203.
Nugo Device Corporation, New York, N. Y. Locking safety device on steering-posts of automobiles. No. 133,479; July 27; v. 276; p. 770.
Ohio Metal Co., The, Columbus, Ohio. Antifriction Babbitt metals. No. 133,294; July 20; v. 276; p. 592.
Oneida Community, Limited, Oneida, N. Y. Flat-ware plated with precious metal. Nos. 133,012–14; July 6; v. 276; p. 203.
Outlook Company, The, Cleveland, Ohio. Wind-shield cleaners of the squeegee type. No. 133,015; July 6; v. 276; p. 203.
Page, Handley, Limited, London, England. Aeroplane covers and tents. No. 132,956; July 6; v. 276; p. 201.
Page, Handley, Limited, London, England. Machine-guns, bombs, machine-gun ammunition, &c. No. 133,423; July 27; v. 276; p. 769.
Parkstyle Novelty Co., Inc., New York, N. Y. Hair-nets. No. 133,481; July 27; v. 276; p. 770.
Park Chemical Company, Great Falls, Mont. Automobile-body polish and cleaner. No. 133,295; July 20; v. 276; p. 592.
Parker, Frederick R., Chicago, Ill. High-potential-electricity-arrester electrodes. No. 133,016; July 6; v. 276; p. 203.
Parkhill Mfg. Co., Fitchburg, Mass. Ginghams in the piece and cotton piece goods. No. 133,482; July 27; v. 276; p. 770.
Parks & Parks, Inc., Troy, N. Y. Phonograph-record brushes. No. 133,480; July 27; v. 276; p. 770.
Patterson-Sargent Company, The, Cleveland, Ohio. Dry and ready-mixed paints, driers, wood-stains, &c. Nos. 133,296–7; July 20; v. 276; p. 592.
Patterson-Sargent Company, The, Cleveland, Ohio. Paints and painters' materials. Nos. 133,483–4; July 27; v. 276; p. 771.
Pawcatuck Woolen Mills, Westerly, R. I. Woolen piece goods. No. 133,485; July 27; v. 276; p. 771.
Peake, W. O., Ltd., London, England. Weatherproof coats. No. 133,298; July 20; v. 276; p. 592.
Pearsall & Company, New York, N. Y. Piece goods composed of woolens, worsted, wool, and cotton, &c. No. 133,486; July 27; v. 276; p. 771.
Penn Rivet Corporation, Philadelphia, Pa. Powder-puffs. No. 133,017; July 6; v. 276; p. 203.
Perfection Mattress & Spring Company, Birmingham, Ala. Mattresses. No. 133,487; July 27; v. 276; p. 771.
Perfecto Manufacturers, Inc., New York, N. Y. Cigars. Nos. 133,299–300; July 20; v. 276; p. 592.
Peterson, August V., Portland, Oreg. Hardtack. No. 133,488; July 27; v. 276; p. 771.
Pfeffer, Genevieve, San Jose, Calif. Dolls. No. 133,018; July 6; v. 276; p. 203.
Phosphor Bronze Smelting Company, The, Philadelphia, Pa. Alloys of copper, tin, zinc, and phosphor-bronze in ingots, castings, and finished forms. No. 133,175; July 13; v. 276; p. 403.
Pierce, Percy, Philadelphia, Pa. Toy aeroplanes. No. 133,019; July 6; v. 276; p. 203.
Polson Rubber Co., Cleveland, Ohio. Belting, hose, machinery packing, and non-metallic tires. No. 133,301; July 20; v. 276; p. 592.
Poor's Publishing Company, New York, N. Y. Publications. No. 133,490; July 27; v. 276; p. 771.
Porter, Robert W., Mobile, Ala. Toy furniture. No. 133,020; July 6; v. 276; p. 203.
Porter, Warren D., San Francisco, Calif. Men's and boys' underwear. No. 133,302; July 20; v. 276; p. 592.
Potter, Louis, New York, N. Y. Clothing. No. 133,176; July 13; v. 276; p. 403.
Presto-Felt Mfg. Co., The, Toledo, Ohio. Wiping and cleaning apparatus for automobile wind-shields, &c. No. 133,021; July 6; v. 276; p. 203.
Preston Chemical Company, Brooklyn, N. Y. Tablets in the form of aspirin and phenacetin, &c. No. 133,491; July 27; v. 276; p. 771.
Pritchard, William C., Lancaster, Pa. Computing-scales, measuring-pumps. No. 133,303; July 20; v. 276; p. 592.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 133,492; July 27; v. 276; p. 771.
Producer Music Company, St. Louis, Mo. Sheet-music. No. 133,493; July 27; v. 276; p. 771.
Prosnits, Charles, Mount Vernon and New York, N. Y. Narrow woven fabrics. No. 133,022; July 6; v. 276; p. 203.
Providence Specialty Company, Providence, R. I. Lacquer and varnishes. No. 133,494; July 27; v. 276; p. 771.
Pushee, J. C., & Sons, Boston, Mass. Painters' and shaving brushes, floor-brooms, and counter-dusters. No. 133,023; July 6; v. 276; p. 203.
Quigley Furnace Specialties Co., Incorporated, New York, N. Y. Refractory lining for furnace structures. No. 133,304; July 20; v. 276; p. 592.
Rader, Frank A., Cleveland, Ohio. Polish for furniture and woodwork. No. 133,305; July 20; v. 276; p. 592.
Radway & Co., New York, N. Y. Preparation for the treatment of certain named ailments. No. 133,495; July 27; v. 276; p. 771.
Ready To Wear Publishing Company, New York, N. Y. Trade publication issued daily. No. 133,496; July 27; v. 276; p. 771.

Reed, Chas. H., New York, N. Y. Bunting. No. 133,024; July 6; v. 276; p. 203.
Reinhardt, George W., Co., Boston, Mass. Compound for cleaning fabrics, glass, &c. No. 133,497; July 27; v. 276; p. 771.
Remington Arms Union Metallic Cartridge Co. Inc., Bridgeport, Conn.; Swanton, Vt.; Hoboken, N. J., and Ilion and New York, N. Y. Cartridges, shells, caps, primers, &c. No. 133,498; July 27; v. 276; p. 771.
Renfrew Mfg. Co., Adams, Mass. Piece goods. No. 133,499; July 27; v. 276; p. 771.
Revell, Alexander H., & Co., Chicago, Ill. Wall or partition sections or units. No. 133,306; July 20; v. 276; p. 592.
Rheinberger, Alois J., New York, N. Y. Shine-removing brushes. No. 133,025; July 6; v. 276; p. 203.
Rice, M., Company, Philadelphia, Pa. Nursery furniture. No. 133,501; July 27; v. 276; p. 771.
Rice-Stix Dry Goods Company, St. Louis, Mo. Neckties, cravats, mufflers, and collars. No. 133,307; July 20; v. 276; p. 192.
Rice-Stix Dry Goods Company, St. Louis, Mo. Handkerchiefs. No. 133,500; July 27; v. 276; p. 771.
Richards and Co. Incorporated, Boston, Mass. Pig-tin. No. 133,177; July 13; v. 276; p. 403.
Rider Wallis Dry Goods Co., Dubuque, Iowa, and New York, N. Y. Cotton and knit piece goods, muslins, &c. No. 133,308; July 20; v. 276; p. 592.
Rindsfoos, Charles S., New York, N. Y. Directories of stores and shops, in book form. No. 133,502; July 27; v. 276; p. 771.
Roberts, Ward P., Milford, Mass. Cigars. Nos. 133,503–4; July 27; v. 276; p. 771.
Rodgers Hosiery Company, Incorporated, Philadelphia, Pa. Hosiery. No. 133,026; July 6; v. 276; p. 203.
Roe, A. V., & Co., Ltd., Manchester, England. Supplies for aviators. No. 133,178; July 13; v. 276; p. 403.
Roe, A. V., & Co., Ltd., Manchester, England, Aviators' harness and belts and coupling attachments for same. No. 133,505; July 27; v. 276; p. 771.
Rogers, Hennessey & Jenkins, Boston, Mass. Quilts, cotton, and wool blankets, and traveling-rugs. No. 133,309; July 20 v. 276; p. 592.
Rollaway Company, The, Toledo, Ohio. Internal-combustion motors. No. 133,310; July 20; v. 276; p. 592.
Root Playing Card Co., Chicago, Ill. Playing-cards. No. 133,027; July 6; v. 276; p. 203.
Ropkins, Edgar L., Hartford, Conn. Non-intoxicating cereal beverages. No. 133,028; July 6; v. 276; p. 203.
Roy, Laurent, Manchester, N. H. Cereal maltless beverage. No. 133,449; July 27; v. 276; p. 770.
Roy Watch Case Company, New York, N. Y. Watch-cases. No. 133,029; July 6; v. 276; p. 203.
Roy, William D., Belleview, Tenn. Playing-cards. No. 133,030; July 6; v. 276; p. 203.
Rummell Manufacturing Works, Findlay, Ohio. Spark plugs. No. 133,031; July 6; v. 276; p. 203.
Russian Tea Room & Art Shop, Chicago, Ill. Cigarettes. Nos. 133,311–13; July 20; v. 276; p. 592.
Sanatho Specialty Company, Phoenix, Ariz. Napkin-holders commercially known as sanitary belts. No. 133,032; July 6; v. 276; p. 203.
Sanderson Bros. & Company, Pittsburgh, Pa. Steel bars, rods, sheets, &c. No. 133,507; July 27; v. 276; p. 771.
Sanger Brothers, Inc., Dallas, Tex., and New York, N. Y. Ginghams, cotton goods, wool and cotton goods, &c. No. 133,314; July 20; v. 276; p. 592.
Schall, William, & Co., New York, N. Y. Drills and shirtings. No. 133,034; July 6; v. 276; p. 203.
Schall's Inc., Clinton, Iowa. Chocolates. No. 133,033; July 6; v. 276; p. 203.
Schoble, Frank, & Co., Philadelphia, Pa. Men's felt hats. No. 133,179; July 13; v. 276; p. 403.
Schreiber, Leon, Cleveland, Ohio. Women's aprons. No. 133,315; July 20; v. 276; p. 592.
Schuler Chocolate Factory, Inc., Winona, Minn. Candy. Nos. 133,035–36; July 6; v. 276; pp. 203–4.
Schulte, D. A., Inc., New York, N. Y. Cigars, cigarettes, cheroots, &c. No. 133,508; July 27; v. 276; p. 771.
Schwarz, Max, New York, N. Y. Voiles in the piece. No. 133,037; July 6; v. 276; p. 204.
Scott County Milling Company, The, Sikeston, Mo. Wheat-flour. No. 133,038; July 6; v. 276; p. 204.
Sears, Roebuck and Co., Chicago, Ill. Rubber-soled shoes made of fabric and rubber. No. 133,316; July 20; v. 276; p. 592.
Sears, Roebuck and Co., Chicago, Ill. Clothing for boys and young men. No. 133,317; July 20; v. 276; p. 592.
Segal Lock & Hardware Co. Inc., New York, N. Y. Keys and locks. No. 133,318; July 20; v. 276; p. 592.
Selznick Pictures Corporation, New York, N. Y. Motion-picture films. No. 133,319; July 20; v. 276; p. 592.
Seminole Chemical Co., Binghamton, N. Y. Healing-ointment. No. 173,180; July 13; v. 276; p. 403.
Service Station Supply Co., Detroit, Mich. Electric-battery-cell testers and testing instruments. No. 133,320; July 20; v. 276; p. 592.
Shaver, Elsie, New York, N. Y. Dolls. Nos. 133,039; July 6; v. 276; p. 204.
Shaver, Elsie, New York, N. Y. Dolls. No. 133,181; July 13; v. 276; p. 403.
Sheffield Works, Inc., assignor to The Aero Works, Incorporated, New York, N. Y. Saws, and machine, tobacco, cane, and corn knives. No. 133,182; July 13; v. 276; p. 403.
Shott Manufacturing Company, The, Cincinnati and Dayton, Ohio. Bed and couch springs and mattresses. No. 133,509; July 27; v. 276; p. 771.
Shushan Bros & Co., New Orleans, La. Men's and ladies' furnishing goods, hosiery, and notions. No. 133,040; July 6; v. 276; p. 204.
Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton piece goods, cotton and silk and cotton and worsted dress goods. No. 133,511; July 27; v. 276; p. 771.
Skinner, Paul F., Omaha, Nebr. Macaroni, spaghetti, and noodles. No. 133,041; July 6; v. 276; p. 204.
Skinner, William, & Sons, Holyoke, Mass. Silk piece goods and cotton piece goods and combinations of same. No. 133,512; July 27; v. 276; p. 771.
Smith, George B., Springfield, Ill. Composition floors and stuccos of magnesite base. No. 133,321; July 20; v. 276; p. 592.
Smith, M. E., & Co., Inc., Omaha, Nebr. Women's and children's underwear, night-robes, dresses, and blouses. No. 133,322; July 20; v. 276; p. 592.
Società Anonima Filature e Tessiture Riunite, (now by change of name Società Anonima Manufatture Italiane Riunite del Lino e della Canape,) Milan, Italy. Hemp cordage. No. 133,183; July 13; v. 276; p. 403.
Société Anonyme Les fils de L. Braunschweig, Fabrique Election, La Chaux-de-Fonds, Switzerland. Watches and parts thereof. No. 133,042; July 6; v. 276; p. 204.
Società Industrie Chimiche Ittiolo, Naples, Italy. Chemicals, medicines, and pharmaceutical preparations. No. 133,184. July 13; v. 276; p. 403.
Solomon, Mannie, Company, New York, N. Y. Ladies' and misses' dresses. No. 133,043; July 6; v. 276; p. 204.
South Bend Lathe Works, South Bend, Ind. Engine-lathes. No. 133,323; July 20; v. 276; p. 592.
Southern Beverage Company, Galveston, Tex. Non-intoxicating beverage. No. 133,513; July 27; v. 276; p. 772.
Spalding, A. G., & Bros., New York, N. Y. Golf-clubs. No. 133,185; July 13; v. 276; p. 403.
Special Tool Engineering Manufacturing Company, Inc., The, Dayton, Ohio. Special-designed machinery and tools, dies, jigs, and parts thereof. No. 133,186; July 13; v. 276; p. 403.
Spiro, C., Mfg. Co., The, New York, N. Y. Running-boards, mats for automobile running-boards and floors, &c. No. 133,514; July 27; v. 276; p. 772.
Standard By-Products Co., Incorporated, Louisville, Ky. Digester-tankage, a food for stock. No. 133,045; July 6; v. 276; p. 204.
Standard Cotton Company of America, Wilmington, Del., and Philadelphia, Pa. Lint-cotton. No. 133,515; July 27; v. 276; p. 772.
Standard Export Cigarette Corporation, New York, N. Y. Cigarettes. No. 133,324; July 20; v. 276; p. 592.
Standard Products Co., The, Buffalo, N. Y. Polish for floors, furniture, woodwork, and automobile-bodies. No. 133,325; July 20; v. 276; p. 592.
Stavisky & Greenstone Inc., New York, N. Y. Silk in the piece. No. 133,516; July 27; v. 276; p. 772.
Steelead Skylight Co., Seattle, Wash. Skylight-bars. No. 133,326; July 20; v. 276; p. 593.
Steinfeld Bros., New York, N. Y. Wheeled children's beds and cribs. No. 133,517; July 27; v. 276; p. 772.
Steppacher, Walter M., & Bro. Inc., Philadelphia, Pa. Men's and children's clothing of cotton, silk, and woolen fabrics. No. 133,518; July 27; v. 276; p. 772.
Sterling Manufacturing Company, Chicago, Ill. House or apron dresses. No. 133,046; July 6; v. 276; p. 204.
Sterling Varnish Company, The, Pittsburgh, Pa. Varnish for electric insulation. No. 133,047; July 6; v. 276; p. 204.
Stitt Ignition Co., The, Columbus, Ohio. Spark-plugs. No. 133,048; July 6; v. 276; p. 204.
Stokes Seed Farms Company, Moorestown, N. J. Flower, field, and vegetable seeds of all descriptions. No. 133,519; July 27; v. 276; p. 772.
Stoltz, Melville, St. Louis, Mo. Toy savings-bank. No. 133,049; July 6; v. 276; p. 204.
Stone, Junius H., New York, N. Y. Flexible-fabric-coating paint for acoustical work. No. 133,328; July 20; v. 276; p. 593.
Stone, Junius H., New York, N. Y. Prepared felt for construction purposes. No. 133,327; July 20; v. 276; p. 593.
Stuart, Ellis V., Indianapolis, Ind. Ignition-wire conduits. No. 133,050; July 6; v. 276; p. 204.
Stuart Products Corporation, Chicago, Ill. Electric batteries. No. 133,051; July 6; v. 276; p. 204.
Suffern, Robert A., Plainfield, N. J. Cotton piece goods. No. 133,520; July 27; v. 276; p. 772.
Sultanaki, John G., Savannah, Ga. Herb tea. No. 133,523; July 27; v. 276; p. 772.
Summit Thread Company, East Hampton, Conn. Mercerized-cotton thread or yarn. No. 133,052; July 6; v. 276; p. 204.
Sun Company, Philadelphia, Pa. Oils and greases. No. 133,187–8; July 13; v. 276; p. 403.
Suter, Eugene, & Company, New York, N. Y. Chemicals and chemical oils for the manufacture of fertilizer. No. 133,189; July 13; v. 276; p. 404.
Swift Mfg. Co., Columbus, Ga. Cotton piece goods. No. 133,522; July 27; v. 276; p. 772.
Swisky, Robert, Chicago, Ill. Hat-brushes. No. 133,053; July 6; v. 276; p. 204.

Tagliabue, Charles J., Mfg. Co., Brooklyn, N. Y. Clinical thermometers, sphygmomanometers, hypodermic needles and syringes. Nos. 133,054–5; July 6; v. 276; p. 204.
Talcum Puff Company, Brooklyn, N. Y. Toilet preparations—namely, talcum powder. No. 133,524; July 27; v. 276; p. 772.
Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 133,056; July 6; v. 276; p. 204.
Tansey, Owen H., Montreal, Quebec, Canada. Wash or spray for treatment of the mouth, throat, &c. No. 133,057; July 6; v. 276; p. 204.
Tate Manufacturing Company, Boston, Mass. Braided rope. No. 133,058; July 6; v. 276; p. 204.
Taugher, Thos. E., Mount Vernon, Ohio. Cigars. No. 133,525; July 27; v. 276; p. 772.
Taves, C. W., Co., Chicago, Ill. Hosiery and underwear. No. 133,329; July 20; v. 276; p. 593.
Taylor-Friedsam Company, The, Paterson, N. J., and New York, N. Y. Silk ribbons in the piece. No. 133,059; July 6; v. 276; p. 204.
Taylor, Tunnicliff and Company, Limited, Hanley, England. Electric insulators made of porcelain. No. 133,060; July 6; v. 276; p. 204.
Terry, Herbert, & Sons, Ltd., Redditch, England. Fancy goods, furnishings, and notions. No. 133,190; July 13; v. 276; p. 404.
Tetlow, Ida J., Philadelphia, Pa. Toilet preparations. No. 133,526; July 27; v. 276; p. 772.
Tew Patent Development Company, Seattle, Wash. Hardware and plumbing and steamfitting supplies. No. 133,330; July 20; v. 276; p. 593.
Thomas & Betts Co., The, New York, N. Y. Conduits, conductors, and electrical merchandise. No. 133,191; July 13; v. 276; p. 404.
Thomas, Dell W., Seattle, Wash. Pearl jewelry. No. 133,062; July 6; v. 276; p. 204.
Thompson, Selene P., New York, N. Y. Apparatus symbolizing a journey to the moon. No. 133,527; July 27; v. 276; p. 772.
Three In One Oil Company, Rahway, N. J., and New York, N. Y. Solvent or softener to facilitate the cleaning of certain named articles. No. 133,061; July 6; v. 276; p. 204.
Tiffany & Company, New York, N. Y. Jewelry for personal wear. No. 133,063; July 6; v. 276; p. 204.
Tiffany & Company, New York, N. Y. Canes, parasols, and umbrellas. No. 133,528; July 27; v. 276; p. 772.
Tobacco Products Corporation, New York, N. Y. Cigarettes. No. 133,331; July 20; v. 276; p. 593.
Tono-Scalpa Company, Inc., The, Richmond, Va. Hairdressing. No. 133,529; July 27; v. 276; p. 772.
Tropics Corporation, The, New York, N. Y. Leather hides. No. 133,064; July 6; v. 276; p. 204.
Tru-Aim Manufacturing Company, Chicago, Ill. Golf-putters. No. 133,065; July 6; v. 276; p. 204.
Trumbo, Stacy D., Columbus, Ohio. Catamenial bandage. No. 133,044; July 6; v. 276; p. 204.
Tucker, Henry D., Avenel, N. J. Knockdown sand-boxes. No. 133,530; July 27; v. 276; p. 772.
Turner & Walls, New York, N. Y. Silk and cotton piece goods and combinations of same. No. 133,067; July 6; v. 276; p. 204.
Twin Falls Dehydrating Co. Twin Falls, Idaho. Dehydrated vegetables and fruits. No. 133,066; July 6; v. 276; p. 204.
U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol. No. 133,069; July 6; v. 276; p. 205.
Ulmer Leather Company, The, Norwich, Conn. Leather, finished and partly finished, and particularly picker-leather. No. 133,531; July 27; v. 276; p. 772.
Unexcelled Manufacturing Company, Inc., New York, N. Y. Fireworks. No. 133,532; July 27; v. 276; p. 772.
Union Special Machine Company, Chicago, Ill. Sewing-machines and parts thereof. No. 133,332; July 20; v. 276; p. 593.
United American Metals Corporation, New York, N. Y. Babbitt metal. No. 133,192; July 13; v. 276; p. 404.
United Drug Company, Boston, Mass. Dental, medical, and surgical appliances. No. 133,068; July 6; v. 276; p. 205.
United Lace & Braid Manufacturing Company, Cranston, R. I. Boot and shoe heels of rubber. No. 133,533; July 27; v. 276; p. 772.
United Shoe Machinery Athletic Association. Beverly, Mass. Monthly publication. No. 133,534; July 27; v. 276; p. 772.
United Silk Mills, Boston, Mass. Broad silks, velvets, plain, fancy, and printed silks, and cotton and woolen goods. No. 133,535; July 27; v. 276; p. 772.
United States Air Compressor Co., The, Cleveland, Ohio. Unitary air-compressor equipments and parts thereof. No. 133,193; July 13; v. 276; p. 404.
United States Playing Card Company, The, East Norwood, Ohio. Playing-cards. Nos. 133,070–1; July 6; v. 276; p. 205.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Dental dam, surgeons' gloves, seamless nipples, &c. No. 133,072; July 6; v. 276; p. 205.
United States Spring Bed Company, The, Springfield, Mass. Extension or sliding couches. No. 133,333; July 20; v. 276; p. 593.
United Stay Company, Cambridge, Mass. Clothing. No. 133,334; July 20; v. 276; p. 593.
United Theatre Equipment Corporation, Wilmington, Del., and New York, N. Y. Motion-picture apparatus and accessories. No. 133,194; July 13; v. 276; p. 404.
Universal Tire & Rubber Association, Houston, Tex. Fabric and rubber tires. No. 133,335; July 20; v. 276; p. 593.
Usona Dental Company, Inc., Ogdensburg, N. Y. Burs and broaches. Nos. 133,073–74; July 6; v. 276; p. 205.
Utica Drop Forging & Tool Company, Utica, N. Y. Dental pliers and forceps. No. 133,075; July 6; v. 276; p. 205.
Utopia Cigar Company, Nashville, Tenn. Cigars. No. 133,536; July 27; v. 276; p. 772.
V-Plex Piston Ring Company, Chicago, Ill. Piston-rings. No. 133,337; July 20; v. 276; p. 593.
Van Orden Company, The, Newark, N. J. Corsets. Nos. 133,076–78; July 6; v. 276; p. 205.
Victor Products Co., Chicago, Ill. Non-alcoholic fruit beverage. No. 133,537; July 27; v. 276; p. 772.
Victor Rubber Company, Springfield, Ohio. Rubber and fabric outer casings for pneumatic automobile tires, &c. No. 133,538; July 27; v. 276; p. 772.
Vincennes Furniture Mfg Co., Vincennes, Ind. Kitchen-cabinets. No. 133,336; July 20; v. 276; p. 593.
Waldes & Co., Prague, Bohemia. Notions. Nos. 133,079–82; July 6; v. 276; 205.
Walker-Matteson Company, Joliet, Ill. Table-salt. No. 133,540; July 27; v. 276; p. 772.
Wall, Ochs, Incorporated, Philadelphia, Pa. Spectacles, eyeglasses, barometers, &c. No. 133,338; July 20; v. 276; p. 593.
Walworth Manufacturing Company, Boston, Mass. Hardware and plumbing and steam-fitting supplies. No. 133,195; July 13; v. 276; p. 404.
Walworth Manufacturing Company, Boston, Mass. Pipe-wrenches. No. 133,196; July 13; v. 276; p. 404.
Ward Baking Company, New York, N. Y. Bread. Nos. 133,083–5; July 6; v. 276; p. 205.
Warner Brothers Company, The, Bridgeport, Conn. Brassière combination-undergarments and undergarments for women. No. 133,087; July 6; v. 276; p. 205.
Washington Tire & Rubber Company, Spokane, Wash. Rubber and fabric vehicle-tires, tubes, boots, and tire-patches. Nos. 133,339–40; July 20; v. 276; p. 593.
Wayne Knitting Mills, Fort Wayne, Ind. Women's hosiery. No. 133,285; July 20; v. 276; p. 591.
Wernet, George L., Philadelphia, Pa. Powder for false teeth. No. 133,088; July 6; v. 276; p. 205.
Western Rope & Manufacturing Company, Tulsa, Okla. Wire and manila ropes and wire cables. No. 133,089; July 6; v. 276; p. 205.
Weyerhaeuser Forest Products, St. Paul, Minn. Construction materials. No. 133,341; July 20; v. 276; p. 593.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Stationery. No. 133,543; July 27; v. 276; p. 772.
White Company, The, Cleveland, Ohio. Automobiles and motor-trucks. No. 133,541; July 27; v. 276; p. 772.
White, James F., & Co., New York, N. Y. Toweling. No. 133,542; July 27; v. 276; p. 772.
Whitelite Electric Company, New York, N. Y. Incandescent lamps. Nos. 133,090–1; July 6; v. 276; p. 205.
Whitmore-Tirrell Shoe Corporation, Weymouth, Mass. Leather boots and shoes. No. 133,092; July 6; v. 276; p. 205.
Wiederhold, Emil, & Bro., Columbus, Ohio. Piano and automobile polish. No. 133,342; July 20; v. 276; p. 593.
Will, Oscar H., & Co., Bismarck, N. D. Seeds—namely, flower and sweet-pea. No. 133,093; July 6; v. 276; p. 205.
Will, Oscar H., & Co., Bismarck, N. D. Seeds—namely, lawn and grass. No. 133,094; July 6; v. 276; p. 205.
Williams, Davis, Brooks & Hinchman Sons, Detroit, Mich. Toothbrushes. No. 133,547; July 27; v. 276; p. 773.
Williams, Mortimer, Petersburg, Va. Candy-bars. No. 133,197; July 13; v. 276; p. 404.
Winslow, Samuel, Skate Mfg. Co., The, Worcester, Mass. Ice-skates. No. 133,506; July 27; v. 276; p. 771.
Wireless Specialty Apparatus Company, New York, N. Y., and Boston, Mass. Vacuum-tube devices and parts and accessories therefor for radio communication, telegraphy, and telephony. No. 133,095; July 6; v. 276; p. 205.
Wirth-Lang Company Inc., Louisville, Ky. Wood, metal, and poster beds and chifforobes. No. 133,548; July 27; v. 276; p. 773.
Wisconsin-Pilot Glove Company, Milwaukee, Wis. Leather and cloth gloves and mittens. No. 133,343; July 20; v. 276; p. 593.
Wise Brothers, Inc., Baltimore, Md. Clothing. No. 133,344; July 20; v. 276; p. 593.
Witherbee Igniter Company, Springfield, Mass. Batteries, electrical mine-lamps, and magnetos. No. 133,096; July 6; v. 276; p. 205.
Woods, S. A., Machine Co., Boston, Mass. Woodworking-machines and parts thereof. No. 133,198; July 13; v. 276; p. 404.

Worman, Oscar E., Minneapolis, Minn. Artificial limbs. No. 133,199; July 13; v. 276; p. 404.
Worumbo Manufacturing Company, Bath, Me. Woolen piece goods. No. 133,549; July 27; v. 276; p. 773.
Wrigley, E. G., & Co., Birmingham, England. Milling-cutters, reamers, &c. Nos. 133,345–6; July 20; v. 276; p. 593.
Wuest, Andrew A., Cincinnati, Ohio. Hosiery for men, women, and children. No. 133,347; July 20; v. 276; p. 593.
Wülfing, Johann A., Berlin, Germany. Pharmaceutical chalk product in tablet form for internal use. No. 133,545; July 27; v. 276; p. 773.
Young & Wile, Ltd., New York, N. Y. Corn and maltose syrups for flavoring foodstuffs. No. 133,200; July 13; v. 276; p. 404.
Young, Wm. H., Columbus, Ga. Ointment for external use. No. 133,546; July 27; v. 276; p. 773.
Zilberstien, Benjamin, Philadelphia, Pa. Cigars, cigarettes, and smoking and chewing tobacco. No. 133,551; July 27; v. 276; p. 773.
Zorro Tobacco Co., Inc., New York, N. Y. Smoking-tobacco. No. 133,550; July 27; v. 276; p. 773.
Zubrod, Geo. & Co., Louisville, Ky. Toilet preparations for treating the skin. No. 133,552; July 27; v. 276; p. 773.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Baltimore Butterine Co., The, Baltimore, Md. "Nut-All." (For Oleomargarin.) No. 21,906; July 27; v. 276; p. 774.
Baltimore Butterine Co., The, Baltimore, Md. "Silver Star." (For Oleomargarin.) No. 21,907; July 27; v. 276; p. 774.
Bitrose Company, Milwaukee, Wis. "Bitrose Scotties." (For Candles.) No. 21,908; July 27; v. 276; p. 774.
California Soap Company, Inc., Los Angeles, Calif. "Chump." (For Soaps.) No. 21,909; July 27; v. 276; p. 774.
Cannar, Charles W., Chicago, Ill. "Beaux Arts Candy." (For Candies.) No. 21,910; July 27; v. 276; p. 774.
Connor, Thomas E., Lynn, Mass. "Cotec." (For Pile-Ointment.) No. 21,911; July 27; v. 276; p. 774.
Denison, Alfred, & Son, Mohawk, N. Y. "Denison's Original Famous Cancer Ointment." (For an Ointment for Cancer.) No. 21,904; July 20; v. 276; p. 594.
Dwinell-Wright Company, Boston, Mass. "Cup & Saucer." (For Coffee.) No. 21,912; July 27; v. 276; p. 774.
Flossmint Company, The, Spokane, Wash. "Flossies." (For Candy Lozenges.) No. 21,913; July 27; v. 276; p. 774.
Frank & Company, Milwaukee, Wis. "Frank's." (For Frankforts—Namely, Sausages.) No. 21,905; July 20; v. 276; p. 594.
Gray, Judah P., Nampa and Emmett, Idaho. "Idaho Apples." (For Fresh Apples.) No. 21,914; July 27; v. 276; p. 774.
Italian Distilling Co., The, Chicago, Ill. "Sciroppo Tamarindo." (For Non-Intoxicating Beverages.) No. 21,915; July 27; v. 276; p. 774.
Jacoby, Philip I., San Francisco, Calif. "Toyland Special." (For Crackers Known as Joyland Special and Cut in the Shape of a Car.) No. 21,903; July 6; v. 276; p. 206.
Jordan, Vitalio, Milwaukee, Wis. "Mi Candita." (For Cigars.) No. 21,916; July 27; v. 276; p. 774.
Krank, Alfred J., St. Paul, Minn. "Lemon Cleansing Cream." (For a Massage and Cleansing Cream.) No. 21,917; July 27; v. 276; p. 774.
Krank, Alfred J., St. Paul, Minn. "Lemon Vanishing Cream." (For a Skin-Cream.) No. 21,918; July 27; v. 276; p. 774.
Lindeke, Warner & Sons, Incorporated, St. Paul, Minn. "Rosa-Belle." (For Silks.) No. 21,919; July 27; v. 276; p. 774.
Nacarine Co., The, New York, N. Y. "Nacarine." (For a Lotion for the Complexion.) No. 21,920; July 27; v. 276; p. 774.
Pulos Bros., Elmira, N. Y. "Log Cabin." (For Candy—Namely, Pecan Rolls.) No. 21,921; July 27; v. 276; p. 774.
Sanburg, R. A., Burlington, Iowa. "Packard Brand, Egyptian Style." (For Butter-Cream Chocolates.) No. 21,922; July 27; v. 276; p. 774.
Sode, E. B. Paper Box Company, Chicago, Ill. "Over the Top." (For a Game.) No. 21,923; July 27; v. 276; p. 774.
Williams, Wm. H., Co., The, Greenville, Ohio. "Delaine." (For Toilet-Paper.) No. 21,924; July 27; v. 276; p. 774.
Zirkle, Charles T., Portland, Oreg. "Our Home-Made." (For Malt Syrup.) No. 21,925; July 27; v. 276; p. 774.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Adels-Ribakoff Co. Inc., New York, N. Y. "Watches That Run." (For Watches.) No. 5,266; July 20; v. 276; p. 594.
Fairbank, N. K., Company, The, Chicago, Ill. "One of the few things 5 cents will buy—Gold Dust." (For Washing-Powder.) No. 5,267; July 27; v. 276; p. 774.
Graham, Percy, Chicago, Ill. "Graham Beauty Secret." (For a Preparation for Cleansing the Skin.) No. 5,268; July 27; v. 276; p. 774.
King Car Corporation of New York, New York, N. Y. "King 8 Sedanette." (For Automobiles.) No. 5,269; July 27; v. 276; p. 774.
Marshall Field and Company, Chicago, Ill. "Solrex." (For Watches.) No. 5,270; July 27; v. 276; p. 774.
National Paving Brick Manufacturers Association, Cleveland, Ohio. "Taxpayers' Value Brick Roads." (For Paving-Brick.) No. 5,271; July 27; v. 276; p. 774.
Salz Brothers, New York, N. Y. "Salz $1 Fountain Pen." (For Fountain-Pens.) No. 5,272; July 27; v. 276; p. 774.
Sweeney, Thomas E., Kansas City, Mo. "Sweeney Tank and Supply Co." (For Tanks and Tank Supplies.) No. 5,273; July 27; v. 276; p. 774.
Sunbeam Chemical Co., Chicago, Ill. "Don't Buy New Corsets." (For Dye-Soap.) No. 5,274; July 27; v. 276; p. 774.

DISCLAIMERS.

Ellis, Carleton, Montclair, N. J.; disclaimer filed by the assignee, Ellis-Foster Company, and patentee. Process of making derivatives of petroleum-hydrocarbons. No. 1,317,868; disclaimer filed July 3, 1920; v. 276; p. 601.
Martin, Talbot G., Chicago, Ill.; disclaimer filed by the patentee—the assignee, Automatic Electric Company, consenting. Non-interfering extension or party-line telephone system. No. 1,151,554; disclaimer filed June 28, 1920; v. 276; p. 409.
Martin, Talbot G., Chicago, Ill.; disclaimer filed by the patentee—the assignee, Automatic Electric Company, consenting. Automatic telephone switching apparatus. No. 14,665 (reissue); disclaimer filed June 30, 1920; v. 276; p. 409.
Pruessman, Albert, East Orange, N. J.; disclaimer filed by the patentee—the assignee, Western Electric Company, Incorporated, consenting. Condenser and method of making the same. No. 1,275,468; disclaimer filed June 15, 1920; v. 276; p. 409.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF JULY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Absorbing and purifying composition. J. C. Tate. No. 1,346,349; July 13; v. 276; p. 264.
Acetates, Manufacture and production of cellulose. J. O. Zdanowich. No. 1,347,801; July 27; v. 276; p. 666.
Acid and cyanids, Making hydrocyanic. M. E. Mueller. No. 1,347,518; July 27; v. 276; p. 609.
Acoustic device. G. B. Thomas. No. 1,345,717; July 6; v. 276; p. 77.
Adding-machine. J. T. Hurley No. 1,345,781; July 6; v. 276; p. 89.
Adjustable bracket. G. G. Blandford. No. 1,345,344; July 6; v. 276; p. 4.
Advertising device. F. Vogelzang. No. 1,346,775; July 13; v. 276; p. 348.
Advertising-frame. F. Newhouse. No. 1,346,969; July 20; v. 276; p. 445.
Advertising or amusement device. C. H. Leggett. No. 1,346,219; July 13; v. 276; p. 237.
Advertising specialty. C. Kolin. No. 1,346,658; July 13; v. 276; p. 324.
Aerial ropeway. H. F. H. Shields and J. P. Roe. No. 1,347,763; July 27; v. 276; p. 659.
Aeroplane. A. Albérico. No. 1,346,107; July 13; v. 276; p. 216.
Aeroplane. B. Hood. No. 1,347,952; July 27; v. 276; p. 696.
Aeroplane. H. A. Robinson. No. 1,345,885; July 6; v. 276; p. 110.
Aeroplane. C. R. Wilson. No. 1,345,726; July 6; v. 276; p. 78.
Aeroplane construction. H. G. Hooper. No. 1,347,040; July 20; v. 276; p. 459.
Aeroplane-drive. H. F. McNutt. No. 1,346,327; July 13; v. 276; p. 260.
Aeroplane safety device. L. Kovacs. No. 1,346,214; July 13; v. 276; p. 236.
Agricultural implement. J. W. Scott. No. 1,345,964; July 6; v. 276; p. 126.
Agricultural-implement blade. E. A. Schmutte. No. 1,346,261; July 13; v. 276; p. 246.
Agricultural-implement seat. J. C. Brian. No. 1,345,830; July 6; v. 276; p. 98.
Air and non-condensable gases, Apparatus for exhausting. A. E. L. Scanes. No. 1,346,980; July 20; v. 276; p. 447.
Air-brush plant, Portable. C. A. Murphy. No. 1,347,790; July 27; v. 276; p. 664.
Air-compressor. B. D. Thompson. No. 1,345,973; July 6; v. 276; p. 128.
Air-compressors, Dust-arrester for. J. R. Ricketts. No. 1,345,405; July 6; v. 276; p. 16.
Air-diffusion machine. V. Slater. No. 1,346,471; July 13; v. 276; p. 287.
Air or water, Apparatus for the determination of vertical velocities in or of. C. Schoute, F. A. van Heyst, and N. E. G. Meyer. No. 1,345,556; July 6; v. 276; p. 45.
Air or water pressure tank. J. F. Brown. No. 1,347,934; July 27; v. 276; p. 692.
Air-separator. W. A. Gibson and C. E. Needham. No. 1,346,015; July 6; v. 276; p. 136.
Air transport systems, Blowing-tank for compressed-. H. A. Kimber. No. 1,348,010; July 27; v. 276; p. 708.
Air-washer. E. J. Kratochvil. No. 1,345,681; July 6; v. 276; p. 69.
Aircraft for receiving and delivering mail and merchandise, Apparatus on. E. C. Hanson. No. 1,347,157; July 20; v. 276; p. 481.
Aircraft, Gun-mounting for use on. R. Allen. No. 1,348,072; July 27; v. 276; p. 721.
Airplane. T. L. Eggleston. No. 1,347,084; July 20; v. 276; p. 468.
Airplane. J. D. Hill. No. 1,347,857; July 27; v. 276; p. 678.
Airplane. A. R. Smith. No. 1,346,472; July 13; v. 276; p. 288.
Airplane. C. F. Stanley. No. 1,345,970; July 6; v. 276; p. 127.
Airplane. H. P. Van Keuren. No. 1,346,570; July 13; v. 276; p. 307.
Airplane-launching apparatus. L. J. Le Mesurier. No. 1,347,105; July 20; v. 276; p. 471.
Alarm: *See*—
Automobile-alarm.
Lock and burglar-alarm.
Alcohol from liquids, Process and apparatus for extracting. F. Fehr. No. 1,345,437; July 6; v. 276; p. 21.
Alkali-metal hydrates, Producing. H. W. Charlton. No. 1,346,002; July 6; v. 276; p. 133.
Alkali metal minerals, Decomposition of. E. Bergve. No. 1,346,365; July 13; v. 276; p. 266.
Alloy of iron, chromium, and titanium, and the production thereof. H. C. Sicard. No. 1,346,343; July 13; v. 276; p. 263.
Alloys, Producing chromium-containing. F. A. Fahrenwald. No. 1,346,187; July 13; v. 276; p. 231.
Alternating-current motor. V. A. Fynn. No. 1,345,538; July 6; v. 276; p. 42.
Ammonia to nitric acid, Oxidizing. A. Henwood. No. 1,347,158; July 20; v. 276; p. 482.
Ammonia to nitric acid, Oxidizing. A. Henwood. No. 1,347,159; July 20; v. 276; p. 482.
Ammonium chlorid, Method of and apparatus for recovering. M. E. Mueller. No. 1,346,967; July 20; v. 276; p. 445.
Ammonium salts, Purification of. V. Bredlik. No. 1,346,106; July 13; v. 276; p. 216.
Ammunition-carrier. A. A. Lethern. No. 1,345,864; July 6; v. 276; p. 105.
Ammunition-hoisting apparatus. A. T. Dawson and J. Horne. No. 1,346,302; July 13; v. 276; p. 254.
Amusement device. P. J. Coburn. No. 1,346,634; July 13; v. 276; p. 320.
Amusement device. A. McK. Waters. No. 1,345,647; July 6; v. 276; p. 62.
Amusement device. J. C. Welch. No. 1,346,576; July 13; v. 276; p. 308.
Amusement device, Spiral-guide. G. W. O'Dole. No. 1,347,968; July 27; v. 276; p. 699.
Anchor-post. A. L. Melvin. No. 1,347,865; July 27; v. 276; p. 679.
Andiron-grate, Combination. J. R. Campbell. No. 1,347,935; July 27; v. 276; p. 693.
Angle-indicator, Automatic. J. R. Lackland. No. 1,346,547; July 13; v. 276; p. 303.
Animal-exterminator. J. W. Van Meter. No. 1,347,310; July 20; v. 276; p. 512.
Anti-aircraft, Apparatus for regulating the firing of. J. L. Routin. No. 1,345,707; July 6; v. 276; p. 74.
Anti-aircraft-control system. J. L. Routin. No. 1,345,697; July 6; v. 276; p. 72.
Anti-aircraft fire control. J. L. Routin. No. 1,345,701; July 6; v. 276; p. 73.
Anti-aircraft fire-control apparatus. J. L. Routin. No. 1,345,705; July 6; v. 276; p. 74.
Anti-aircraft gunfire control. J. L. Routin. No. 345,698; July 6; v. 276; p. 72.
Anti-aircraft gunfire control apparatus. J. L. Routin. No. 1,345,703; July 6; v. 276; p. 74.
Anti-aircraft gunfire-control system. J. L. Routin. No. 1,345,700; July 6; v. 276; p. 73.
Anti-aircraft tracker. J. L. Routin. No. 1,345,704; July 6; v. 276; p. 74.
Antifriction-buffer. L. Larsen. No. 1,347,389; July 20; v. 276; p. 527.
Antisetting device. A. M. Griffey. No. 1,346,954; July 20; v. 276; p. 442.
Arbor, Expanding. E. Hottinger. No. 1,346,890; July 20; v. 276; p. 429.
Arbor, Expanding. C. F. Sherman. No. 1,346,917; July 20; v. 276; p. 435.
Arbor-press. K. R. Wilson. No. 1,346,868; July 20; v. 276; p. 425.
Arch-support. S. Darling. No. 1,346,444; July 13; v. 276; p. 282.
Armband. A. L. Herrmann. No. 1,346,374; July 13; v. 276; p. 268.
Armchair and bed, Combined. E. Jantsch. No. 1,346,206; July 13; v. 276; p. 234.
Arrow. I. L. Davis. No. 1,346,639; July 13; v. 276; p. 321.
Asbestos, Bleaching. C. L. Hill. No. 1,346,316; July 13; v. 276; p. 257.
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Assorting and distributing machine, Product. F. H. Ballou. No. 1,346,438; July 13; v. 276; p. 281.

Astronomical instrument. E. Meltner. No. 1,346,412; July 13; v. 276; p. 275.
Auto-bumper. T. L. Robertson. No. 1,348,053; July 27; v. 276; p. 717.
Auto-chassis. G. L. Kline. No. 1,347,337; July 20; v. 276; p. 517.
Auto-pedals lock. F. P. Maize. No. 1.346,098; July 6; v. 276; p. 152.
Automatic brake. V. Barningham and S. G. Ashby. No. 1,346,628; July 13; v. 276; p. 318.
Automatic decelerating device. J. F. Layng. No. 1,347,784; July 27; v. 276; p. 663.
Automatic regulator. H. R. Davies. No. 1,346,181; July 13; v. 276; p. 230.
Automatic sprinkler. F. T. Gentile. No. 1,345,592; July 6; v. 276; p. 52.
Automatic switch. C. W. Eisenmann. No. 1,348,098; July 27; v. 276; p. 726.
Automatically-operated support. S. E. Sudbury. No. 1,346,773; July 13; v. 276; p. 347.
Automobile accelerator. C. L. Mitchell. No. 1,347227; July 20; v. 276; p. 495.
Automobile-alarm. G. M. Campbell. No. 1,347,495; July 27; v. 276; p. 605.
Automobile-alarm. W. R. Moran. No. 1,345,387; July 6; v. 276; p. 12.
Automobile attachment, Life-saver. M. Doujak. No. 1,346,486; July 13; v. 276; p. 290.
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Automobile bumper and fender, Combined. S. E. Horne. No. 1,347,699; July 27; v. 276; p. 646.
Automobile direction-indicator. J. Sobocinski. No. 1,345,562; July 6; v. 276; p. 47.
Automobile-fender. P. Fedorow. No. 1,347,624; July 27; v. 276; p. 631.
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Automobile-jack. J. W. Paxson. No. 1,347,228; July 20; v. 276; p. 495.
Automobile-jack, Automatic. L. M. Fisher. No. 1,345,842; July 6; v. 276; p. 101.
Automobile-lock. F. C. H. Eichorn. No. 1,347,262; July 20; v. 276; p. 503.
Automobile-lock. T. C. Fischer. No. 1,346,371; July 13; v. 276; p. 267.
Automobile-lock. W. Henckler. No. 1,345,672; July 6; v. 276; p. 67.
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Automobile-sander. A. and O. Teuscher. No. 1,347,306; July 20; v. 276; p. 511.
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Automobile-signal. W. A. Lee. No. 1,345,863; July 6; v. 276; p. 105.
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Automobile-top. J. Vetter. No. 1,347,881; July 27; v. 276; p. 682.
Automobile traction device. W. H. Ferch. No. 1,346,813; July 20; v. 276; p. 414.
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Automobile-wheel. E. W. Fairbanks. No. 1,346,084; July 6; v. 276; p. 150.
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Automobiles, Automatic gear-shift for. H. K. Altick. No. 1,346,151; July 13; v. 276; p. 224.
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Automobiles, Detachable auxiliary seat for. B. Salinger. No. 1,347,594; July 27; v. 276; p. 625.
Automobiles, Load-carrier for. W. K. Yost. No. 1,346,581; July 13; v. 276; p. 309.
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Automobiles, Spring-eye protector for. H. K. Reinoehl. No. 1,346,682; July 13; v. 276; p. 329.
Automobiles, Sun and rain shield for. W. H. Damon. No. 1,348,135; July 27; v. 276; p. 733.
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Axles, crank-shafts, &c., Device for refinishing. G. H. Taber. No. 1,345,809; July 6; v. 276; p. 95.
Awning device. H. E. Thompson. No. 1,346,351; July 13; v. 276; p. 264.
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Paper bag.
Bag supporting and clamping mechanism. J. E. Schmandt. No. 1,346,260; July 13; v. 276; p. 246.
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Suction-cleaner. J. B. Kirby. No. 1,347,167; July 20; v. 276; p. 483.

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Sulfur color and manufacturing same from aloes. A. L. Applebaum. No. 1,346,154; July 13; v. 276; p. 224.

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Wood, Fireproofing. H. F. Weiss. No. 1,346,287; July 13; v. 276; p. 251.
Wood-rod elevator. G. F. Davis. No. 1,347,535; July 27; v. 276; p. 613.
Woods, Composition for hardening and preserving impregnable soft. A. Lambert. No. 1,346,830; July 20; v. 276; p. 417.
Work-holding device. A. O. Mathison. No. 1,346,504; July 13; v. 276; p. 294.
Wrapper-pasting device. J. J. Sleeper and W. Mills. No. 1,347,182; July 20; v. 276; p. 486.
Wrench: *See*—
Pipe-wrench. Socket-wrench.
Wrench. L. Benoit and P. F. King. No. 1,347,401; July 27; v. 276; p. 604.
Wrench. G. Forton. No. 1,347,691; July 27; v. 276; p. 644.
Wrench. J. T. Haslett. No. 1,345,850; July 6; v. 276; p. 102.
Wrench. B. E. Jacoby. No. 1,347,780; July 27; v. 276; p. 663.
Wrench. C. M. Jones. No. 1,348,143; July 27; v. 276; p. 734.
Wrench. B. Lee. No. 1,346,716; July 13; v. 276; p. 336.
Wrench. S. C. Rosenberg. No. 1,346,061; July 6; v. 276; p. 145.
Wrench mechanism. J. G. Moomy; No. 1,345,619; July 6; v. 276; p. 57.
Wringers, Safety-lock for swing-. G. F. Freed and J. R. Spencer. No. 1,346,816; Juy 20; v. 276; p. 415.
Writing-pad. H. C. Simmons. No. 1,345,658; July 6; v. 276; p. 46.
Writing-ranger. G. T. Wride. No. 1,347,729; July 27; v. 276; p. 652.
Yarn in hank form, Machine for treating. J. S. and S. S. Lord. No. 1,346,833; July 20; v. 276; p. 418.
Yoke, Cattle-. J. Switzyk. No. 1,346,278; July 13; v. 276; p. 250.
Yoke, Hog-. T. D. Ricks. No. 1,347,352; July 20; v. 276; p. 520.
Zinc by electrolysis, Recovery of. R. H. Stevens. No. 1,347,189; July 20; v. 276; p. 487.
Zinc solutions preparatory to the recovery of zinc by electrodeposition, Treatment of. D. Avery and R. T. D. Williams. No. 1,347,200; July 20; v. 276; p. 489.

ALPHABETICAL LIST OF DESIGNS.

Aeroplane-coaster. E. G. Moore. No. 55,636; July 6; v. 276; p. 165.
Air and water dispenser casing, Combined. A. A. Ewald. No. 55,762; July 13; v. 276; p. 361.
Aquarium-stand. F. S. Crowell. Nos. 55,751–4; July 13; v. 276; p. 359.
Article-holder, Individual. P. F. Denning. No. 55,756; July 13; v. 276; p. 360.
Article of manufacture. H. T. Abolin. No. 55,582; July 6; v. 276; p. 155.
Auto signal-light. J. P. Becker. No. 55,739; July 13; v. 276; p. 356.
Automobile-body. H. E. Cross. No. 55,845; July 20; v. 276; p. 549.
Automobile-body. J. H. Kammerer. No. 55,617; July 6; v. 276; p. 161.
Automobile-body. F. Richard. No. 55,816; July 13; v. 276; p. 371.
Automobile signal-light. C. A. Vories. No. 55,833; July 13; v. 276; p. 374.
Automobile-tool. P. L. Hudgins. No. 55,792; July 13; v. 276; p. 367.
Automobile-top. C. A. Folmer. No. 55,855; July 20; v. 276; p. 551.
Automobiles, Radiator-cap ornament for. S. C. Jackson. No. 55,615; July 6; v. 276; p. 161.
Badge. J. Archer. No. 55,736; July 13; v. 276; p. 356.
Badge, emblem, or article of similar nature. E. D. Stackhouse. No. 55,896; July 20; v. 276; p. 558.
Bezel. J. Wildenberg. No. 55,926; July 20; v. 276; p. 564.
Bicycle-frame. E. J. Lonn. Nos. 55,624–5; July 6; v. 276; p. 163.
Boot. N. E. Tousley and A. H. Whorf. No. 55,780; July 6; v. 276; p. 180.
Bottle. E. Scudder and N. C. Ward. Nos. 55,891–2; July 20; v. 276; pp. 557–8.
Box, Candy-. E. C. Quinby. No. 55,643; July 6; v. 276; p. 166.
Box, Candy-. E. C. Quinby. No. 55,885; July 20; v. 276; p. 556.
Bracelet, Novelty picture-. J. B. Griffin. No. 55,788; July 13; v. 276; p. 366.
Bracket. J. Glassberg. No. 55,603; July 6; v. 276; p. 159.
Bracket, Manifold-. C. E. Mason. No. 55,628; July 6; v. 276; p. 163.
Bulletin-board. H. J. Mahin. Nos. 55,626–7; July 6; v. 276; p. 163.
Bulletin-board. H. J. Mahin. No. 55,805; July 13; v. 276; p. 369.
Button. W. W. Hobe. No. 55,862; July 20; v. 276; p. 553.
Button and tie-slide or similar article, Combined collar-. H. Esch, Jr. No. 55,761; July 13; v. 276; p. 361.
Cabinet, Phonograph-. P. Iribe. No. 55,863; July 20; v. 276; p. 553.
Cabinet, Phonographic-disk-record. E. H. Fairbanks. No. 55,596; July 6; v. 276; p. 157.
Cabinet, Phonographic-record-disk. E. M. Howard. No. 55,613; July 6; v. 276; p. 161.
Calendar-mounting. A. J. McDade. No. 55,629; July 6; v. 276; p. 164.
Can, Oil-. S. C. Price. No. 55,641; July 6; v. 276; p. 166.
Cap and bottle opener, box-opener, and cigar-cutter, Combination. A. T. Charlier. No. 55,843; July 20; v. 276; p. 549.
Car, Push and coaster. A. Grill. No. 55,608; July 6; v. 276; p. 160.
Card, Playing. A. Bacigalupi. No. 55,583; July 6; v. 276; p. 155.
Cart. M. J. Carls and H. F. Prucha. No. 55,743; July 13; v. 276; p. 357.
China, glass, or like articles, Surface decoration for. A. Martin. No. 55,807; July 13; v. 276; p. 369.
Clamping-dog. C. R. Townsend. Nos. 55,830–1; July 13; v. 276; p. 373–4.
Clamping-dog. C. R. Townsend. No. 55,900; July 20; v. 276; p. 559.
Clock-bank case. C. Fisher. Nos. 55,853–4; July 20; v. 276; p. 551.
Cocoanut-shell or similar article, Surface ornamentation for a. E. Simola. No. 55,721; July 6; v. 276; p. 178.
Collar, Embroidered lace. H. Schwarber. No. 55,727; July 6; v. 276; p. 179.
Coinmunication-board. A. S. Crockett. No. 55,593; July 6; v. 276; p. 157.
Controller. G. A. Knaak. No. 55,620; July 6; v. 276; p. 162.
Counter, Help-self. W. J. Bailey. No. 55,584; July 6; v. 276; p. 155.
Crumb set. T. B. Easby. Nos. 55,757–8; July 13; v. 276; p. 360.
Cutlery holder, Dining-. A. Onufryk. No. 55,639; July 6; v. 276; p. 166.
Cycle, Kiddie-. A. P. Spiringer. No. 55,825; July 13; v. 276; p. 372.
Dictaphone-record cabinet. S. Q. McClure. No. 55,869; July 20; v. 276; p. 554.
Disnensing apparatus, Casing for a. M. B. Muxen. No. 55,873; July 20; v. 276; p. 554.
Display-rack. F. W. Gibson. No. 55,778; July 13; v. 276; p. 364.
Display-stand. A. Prini. No. 55,642; July 6; v. 276; p. 166.
Display-stand, Belt. W. C. Klee. No. 55,619; July 6; v. 276; p. 162.
Doll. S. B. Bernstein. No. 55,840; July 20; v. 276; p. 548.
Doll. V. Bernstein. No. 55,841; July 20; v. 276; p. 549.
Doll. G. Corry. No. 55,594; July 6; v. 276; p. 157.
Doll. H. L. Lederer. No. 55,866; July 20; v. 276; p. 553.
Doll. E. Malavarca. No. 55,806; July 13; v. 276; p. 369.
Doll. C. H. Pajeau. No. 55,881; July 20; v. 276; p. 556.
Doll. E. Peruggi. Nos. 55,882–3; July 20; v. 276; p. 556.
Doll. A. M. Porter. No. 55,640; July 6; v. 276; p. 166.
Doll. S. P. Starkweather. Nos. 55,723–4; July 6; v. 276; p. 179.
Doll or statuette. H. B. Smith, K. C. Thomas, and A. J. Ouellette. Nos. 55,894–5; July 20; v. 276; p. 558.
Drawer-pull. C. A. Cutler. No. 55,595; July 6; v. 276; p. 157.
Dress. J. Nemser. No. 55,638; July 6; v. 276; p. 165.
Dress, Child's. M. A. Hirsh. No. 55,860; July 20; v. 276; p. 552.
Egg-poacher. G. W. Ferdon. Nos. 55,598–9; July 6; v. 276; p. 158.
Emblem, badge, or button. H. T. Dickinson. No. 55,847; July 20; v. 276; p. 550.
Emblem, banner, badge, pin, or similar article. T. A. Clancy. No. 55,844; July 20; v. 276; p. 549.
Emblem, banner, or armband. E. A. Klapp. No. 55,798; July 13; v. 276; p. 368.

Emblem, medal, badge, insignia, &c. M. D. Salisbury. No. 55,649; July 6; v. 276; p. 167.
Emblem, pin, button, watch-charm, medal, or similar article. E. C. Heathcote. No. 55,790; July 13; v. 276; p. 366.
Emblem pin or button, Hero-. E. A. Klapp. No. 55,799; July 13; v. 276; p. 368.
Fabric, Textile. A. Eisele. Nos. 55,849–50; July 20; v. 276; p. 550.
Fabric, Textile. E. Krupicka. No. 55,622; July 6; v. 276; p. 162.
Fabric, Textile. C. Loegler. No. 55,623; July 6; v. 276; p. 163.
Filter, Light-. B. Irwin. No. 55,793; July 13; v. 276; p. 367.
Flag. J. C. Young. No. 55,836; July 13; v. 276; p. 375.
Flatiron, Internally-heated. H. G. Heckmann. No. 55,791; July 13; v. 276; p. 366.
Foot rest and warmer. J. G. Johnson. No. 55,616; July 6; v. 276; p. 161.
Fork. F. E. Burchfield. No. 55,589; July 6; v. 276; p. 156.
Fountain bowl, Drinking-. H. W. Taylor. No. 55,828; July 13; v. 276; p. 373.
Game-board. B. E. Gagnon. No. 55,858; July 20; v. 276; p. 552.
Garter. J. A. Stih. No. 55,826; July 13; v. 276; p. 373.
Glass, Light cover. H. P. Gage and E. Pascucci. No. 55,777; July 13; v. 276; p. 364.
Glassware article. P. Ebeling. No. 55,750; July 13; v. 276; p. 360.
Gems in jewelry, Plate for mounting. F. H. Felger. No. 55,597; July 6; v. 276; p. 158.
Golf-club. W. F. Reach. No. 55,644; July 6; v. 276; p. 167.
Golf-club head, Striking-face for. G. W. Mattern. No. 55,867; July 20; v. 276; p. 553.
Guide device. W. E. McMullan and H. J. Hickey. No. 55,631; July 6; v. 276; p. 164.
Guide-post. H. J. Hickey and W. E. McMullan. No. 55,859; July 20; v. 276; p. 552.
Hairpin. A. D. E. Sessions. No. 55,821; July 13; v. 276; p. 372.
Hammer, can-punch, and ice-pick combination. A. H. Crampton. No. 55,592; July 6; v. 276; p. 157.
Hat. A. J. Ziv. No. 55,837; July 13; v. 276; p. 375.
Hatpin and point-protector, Combined. T. Delikat. No. 55,755; July 13; v. 276; p. 359.
Heater, Electric. W. W. Hale. No. 55,789; July 13; v. 276; p. 366.
Hosiery-drying form. J. O. von Stetten. No. 55,733; July 6; v. 276; p. 180.
Ice-cream cone or similar article. J. B. Meltz. No. 55,868; July 20; v. 276; p. 554.
Inkstand. J. Erdoes and E. Sas. No. 55,851; July 20; v. 276; p. 551.
Inkstand. F. A. Fuller. No. 55,857; July 20; v. 276; p. 552.
Inkstand. J. T. Riley. Nos. 55,646–7; July 6; v. 276; p. 167.
Inkstand. G. Thomas. No. 55,898; July 20; v. 276; p. 559.
Inkstand-cover. H. Haupt. No. 55,610; July 6; v. 276; p. 160.
Jewelry—namely, ring-top, pendant, pair of cuff buttons, pin, or similar article. C. J. and S. M. Grossman. No. 55,609; July 6; v. 276; p. 160.
Lace. M. Seidel. Nos. 55,712–19; July 6; v. 276; pp. 176–8.
Lace and embroidery. W. Schmid. Nos. 55,651–711; July 6; v. 276; pp. 168–76.
Lamp. C. L. Tippett. No. 55,829; July 13; v. 276; p. 373.
Lamp. H. H. Wolter. No. 55,919; July 20; v. 276; p. 562.
Lamp. H. H. Wolter. Nos. 55,921–4; July 20; v. 276 p. 563.
Lamp, Portable. J. T. Robb. No. 55,818; July 13; v. 276; p. 371.
Lamp-stand. H. C. Atherly. No. 55,737; July 13; v. 276; p. 356.
Lighting-fixture plate. F. Schwartz. Nos. 55,889–90; July 20; v. 276; p. 557.
Lighting-fixture plate. F. Schwartz. No. 55,899; July 20; v. 276; p. 559.
Lighting-globe. E. B. Gillinder. Nos. 55,779–80; July 13; v. 276; p. 364.
Load-measuring device. F. J. Troll. No. 55,901; July 20; v. 276; p. 559.
Mixing-machine beater. B. D. Pinkney. No. 55,815; July 13; v. 276; p. 371.
Monument, Tower-. B. A. Wise. No. 55,920; July 20; v. 276; p. 562.
Motors, Mounting-frame for spring-. H. G. Saal. No. 55,648; July 6; v. 276; p. 167.
Pan, Metal baking-. B. P. Wagner. No. 55,734; July 6; v. 276; p. 180.
Paper, Embossed wall-. W. F. Roehlen. No. 55,887; July 20; v. 276; p. 557.
Paper-weight and magnifying-glass, Combined. P. H. Meyer. No. 55,632; July 6; v. 276; p. 164.
Phonograph-cabinet. H. Orsenigo. Nos. 55,875–9; July 20; v. 276; p. 555.
Piano key-bed. H. J. Sandlass. No. 55,888; July 20; v. 276; p. 557.
Picture-frame. P. Morea. No. 55,635; July 6; v. 276; p. 165.
Pin, emblem, or article of similar nature. A. M. French. No. 55,769; July 13; v. 276; p. 362.
Plate or similar article. E. E. Tatler. No. 55,827; July 13; v. 276; p. 373.
Punch-board. L. Reisfeld. No. 55,817; July 13; v. 276; p. 371.
Raincoat. B. Greenberg. No. 55,787; July 13; v. 276; p. 366.
Range. E. P. Cole. Nos. 55,744–5; July 13; v. 276; p. 357.
Range-body. E. P. Cole. No. 55,746; July 13; v. 276; p. 358.
Range, Warming-oven for a. E. P. Cole. No. 55,747; July 13; v. 276; p. 358.
Rattle. F. C. Monkhouse. Nos. 55,633–4; July 6; v. 276; p. 164.
Ring. N. Gorod. No. 55,604; July 6; v. 276; p. 159.
Ring. L. W. Sanborn. No. 55,650; July 6; v. 276; p. 168.
Ring, Finger-. J. Simmons. No. 55,893; July 20; v. 276; p. 558.
Rug. A. H. Waldo. No. 55,834; July 13; v. 276; p. 374.
Rug. A. H. Waldo. Nos. 55,902–18; July 20; v. 276; pp. 559–62.
Scale. W. S. Smith. No. 55,824; July 13; v. 276; p. 372.
Scale-tower. W. S. Smith. No. 55,823; July 13; v. 276; p. 372.
Screen. A. Viscardi. No. 55,731; July 6; v. 276; p. 180.
Shoe. M. F. Pasquarelli. No. 55,814; July 13; v. 276; p. 371.
Shrine, Sacramental. S. Buscarage. No. 55,590; July 6; v. 276; p. 156.
Sifter-top can or similar receptacle. M. H. Connor. Nos. 55,749–50; July 13; v. 276; p. 358.
Slipper. P. E. Giroux. No. 55,602; July 6; v. 276; p. 159.
Snap-hook. H. J. Roebuck. No. 55,819; July 13; v. 276; p. 371.
Sound-producing-instrument casing. M. Richtsteig. No. 55,645; July 6; v. 276; p. 167.
Speedometer face-plate. J. Berge. Nos. 55,740–1; July 13; v. 276; p. 357.
Spool-holder. P. O. Mueller. No. 55,637; July 6; v. 276; p. 165.
Statue. P. Montana. No. 55,872; July 20; v. 276; p. 554.
Statuette. I. A. Withers. No. 55,835; July 13; v. 276; p. 374.
Statuette or similar article. C. E. Johnston. No. 55,795; July 13; v. 276; p. 367.
Step-plate. E. E. Green. No. 55,605; July 6; v. 276; p. 159.
Stirring-rod or similar article. J. Hirsch. No. 55,861; July 20; v. 276; p. 552.
Stove-door or similar article. E. P. Cole. No. 55,748; July 13; v. 276; p. 358.
Support. H. Kapneck. Nos. 55,796–7; July 13; v. 276; p. 367.
Support. H. H. Wolter. No. 55,925; July 20; v. 276; p. 564.
Switch-casing. A. C. Hulbert. No. 55,614; July 6; v. 276; p. 161.
Switch-casing. R. H. Rogers and P. O. Dorer. No. 55,820; July 13; v. 276; p. 372.
Table. G. Poll. No. 55,884; July 20; v. 276; p. 556.
Tablet, Memorial. J. R. Klepser. No. 55,800; July 13; v. 276; p. 368.
Tableware, Article of hollow. V. Gaertner. Nos. 55,773–6; July 13; v. 276; pp. 363–4.
Tableware, Gallery-mount for hollow. V. Gaertner. Nos. 55,771–2; July 13; v. 276; p. 363.
Talking-machine. J. A. Fern. Nos. 55,763–7; July 13; v. 276; pp. 361–2.
Talking-machine cabinet. H. B. Miles. No. 55,871; July 20; v. 276; p. 554.
Talking-machine-cabinet grill. W. F. Stolzenburg and H. R. Leubner. No. 55,726; July 6; v. 276; p. 179.
Teapot or similar article of hollow ware. G. E. Ball. No. 55,738; July 13; v. 276; p. 356.
Thermometer. C. E. Erickson. No. 55,760; July 13; v. 276; p. 361.
Timepiece-hands. F. A. Goodrow. Nos. 55,781–6; July 13; v. 276; pp. 365–6.
Tire. T. Follen. No. 55,600; July 6; v. 276; p. 158.
Tire. C. W. Greene. No. 55,606; July 6; v. 276; p. 159.
Tire. E. A. Tinsman. Nos. 55,728–9; July 6; v. 276; pp. 179–80.
Tire, Automobile-. G. E. Batcheller. No. 55,585; July 6; v. 276; p. 156.
Tire, Automobile-. A. S. Fox. No. 55,768; July 13; v. 276; p. 362.
Tire-casing. R. D. Belden. No. 55,586; July 6; v. 276; p. 156.
Tire-casing. W. C. Owen. No. 55,813; July 13; v. 276; p. 370.
Tire-cover. P. M. Lockwood. Nos. 55,803–4; July 13; v. 276; p. 369.
Tire, Elastic vehicle-. E. H. Trump. No. 55,832; July 13; v. 276; p. 374.
Tire, Pneumatic. R. P. McElrath. No. 55,630; July 6; v. 276; p. 164.
Tire-tread. W. O. Bruess. No. 55,588; July 6; v. 276; p. 156.

Tire-tread. C. O. Henderson. Nos. 55,611–12; July 6; v. 276; p. 160.
Tire-tread, Automobile. A. L. Breitenstein. No. 55,842; July 20; v. 276; p. 549.
Tires, Tread of vehicle-. J. A. McLane. No. 55,808; July 13; v. 276; p. 370.
Toothpick-holder, Porcupine. A. Jardella. No. 55,794; July 13; v. 276; p. 367.
Toy. N. Segawa. No. 55,720; July 6; v. 276; p. 178.
Toy automobile. B. W. Spitler. 55,722; July 6; v. 276; p. 178.
Toy block. E. Bratton. No. 55,587; July 6; v. 276; p. 156.
Toy chair. M. L. Greenstreet. No. 55,607; July 6; v. 276; p. 159.
Toy, Figure. L. Morse. No. 55,810; July 13; v. 276; p. 370.
Toy figure. F. K. Reynolds. No. 55,886; July 20; v. 276; p. 557.
Toy, Flying. W. H. Van Shrum. No. 55,732; July 6; v. 276; p. 180.
Toy rattle. C. H. Pajeau. No. 55,880; July 20; v. 276; p. 556.
Toy vehicle. F. Starr. No. 55,725; July 6; v. 276; p. 179.
Toy wagon. E. H. Badgley. Nos. 55,838–9; July 20; v. 276; p. 548.
Tray or similar article, Bread-. V. Gaertner. No. 55,770; July 13; v. 276; p. 362.
Trousers and boot, Combined. W. L. Fry. No. 55,856; July 20; v. 276; p. 552.
Typewriter-frame. S. K. Ouzoun-Boghossian. Nos. 55,811–2; July 13; v. 276; p. 370.
Urn, Garden-. C. E. Jenkins. No. 55,864; July 20; v. 276; p. 553.
Valves, Handle for muffler-. A. R. Cooper. No. 55,846; July 20; v. 276; p. 550.
Vanity-case, Lady's. A. C. Fisher. No. 55,852; July 20; v. 276; p. 551.
Vehicle, Child's. L. F. and O. G. Noirot. No. 55,874; July 20; v. 276; p. 555.
Vehicles, Radiator-shell for motor-. W. W. Simpson. No. 55,822; July 13; v. 276; p. 372.
Velocipede, Child's. V. E. and O. L. La Vanway. No. 55,865; July 20; v. 276; p. 553.
Vending and display stand, Combined. M. Metzger. No. 55,809; July 13; v. 276; p. 370.
Vending-cabinet. E. C. Booth. No. 55,742; July 13; v. 276; p. 357.
Vending-machine. J. H. Egan. No. 55,848; July 20; v. 276; p. 550.
Watch case and bow. J. McGrevy. No. 55,870; July 20; v. 276; p. 554.
Watch-fob, locket, or pendant. H. Allen. No. 55,735; July 13; v. 276; p. 356.
Weeder. J. Gilson, Sr. No. 55,601; July 6; v. 276; p. 158.
Wheel, Metal. M. Lachman. No. 55,801; July 13; v. 276; p. 368.
Windshield. C. D. Keller. No. 55,618; July 6; v. 276; p. 162.
Windshield. A. C. Lillie. No. 55,802; July 13; v. 276; p. 369.
Windshield. F. S. Tew. No. 55,897; July 20; v. 276; p. 558.
Wreath. L. Koropp and V. F. Bergman. No. 55,621; July 6; v. 276; p. 162.
Wrench. A. B. Carll. No. 55,591; July 6; v. 276; p. 157.

ALPHABETICAL LIST OF TRADE-MARKS.

Acetylene cutting and welding machines and lighting plants, steam-boilers. Allied Machinery Company of America. No. 132,872; July 6; v. 276; p. 199.
Advertising apparatus. W. L. Clark Company. No. 133,384; July 27; v. 276; p. 768.
Aeroplane covers and tents. Handley Page Limited. No. 132,956; July 6; v. 276; p. 101.
Air-compressor equipments and parts thereof, Unitary. The United States Air Compressor Co. No. 133,193; July 13; v. 276; p. 404.
Alcohol, Ethyl. U. S. Industrial Alcohol Co. No. 133,069; July 6; v. 276; p. 205.
Alloy wire for electrical purposes. J. E. Dockendorff & Co. No. 133,120; July 13; v. 276; p. 401.
Alloys of copper, tin, zinc, &c. The Phosphor Bronze Smelting Company. No. 133,175; July 13; v. 276; p. 403.
Apparel, Female. Bloom & Moses. No. 133,214; July 20; v. 276; p. 589.
Aprons, Women's. L. Schreiber. No. 133,315; July 20; v. 276; p. 592.
Automobile and motor-cycle accessories. Gemco Manufacturing Company. No. 133,416; July 27; v. 276; p. 768.
Automobile-body polish and cleaner. Park Chemical Company. No. 133,295; July 20; v. 276; p. 592.
Automobile-curtain window. Wm. R. Johnston Mfg. Co. No. 132,976; July 6; v. 276; p. 202.
Automobiles and motor-trucks. The White Company. No. 133,541; July 27; v. 276; p. 772.
Automobiles, Locking safety device on steering-posts of. Nugo Device Corporation. No. 133,479; July 27; v. 276; p. 770.
Aviators' supplies. A. V. Roe & Co. No. 133,178; July 13; v. 276; p. 403.
Baking-powder. Chapman & Smith Company. No. 133,374; July 27; v. 276; p. 767.
Balls, Bowling-. Brunswick-Balke-Collender Company. No. 132,902; July 6; v. 276; p. 200.
Balls, Golf-. Harry C. Lee & Company. No. 133,424; July 27; v. 276; p. 769.
Bandage, Catamenial. S. D. Trumbo. No. 133,044; July 6; v. 276; p. 204.
Baseballs. J. de Beer & Son. No. 133,114; July 13; v. 276; p. 401.
Bathing-suits, sweaters, and jerseys. The Campe Corporation. No. 133,223; July 20; v. 276; p. 589.
Batteries and parts thereof, Storage. A. H. Lyons. Nos. 132,994–5; July 6; v. 276; p. 202.
Batteries, Dry-cell. French Battery & Carbon Co. No. 132,947; July 6; v. 276; p. 201.
Batteries, Electric. Stuart Products Corporation. No. 133,051; July 6; v. 276; p. 204.
Batteries, electrical mine-lamps, and magnetos. Witherbee Igniter Company. No. 133,096; July 6; v. 276; p. 205.
Battery-cell testers, testing instruments, Electric-. Service Station Supply Co. No. 133,320; July 20; v. 276; p. 592.
Beating and mixing machines, Electrically-driven. Hobart Manufacturing Company. No. 133,143; July 13; v. 276; p. 402.
Beds and cribs, Wheeled children's. Steinfeld Bros. No. 133,517; July 27; v. 276; p. 772.
Beds, Wood and metal. Wirth-Lang Company. No. 133,548; July 27; v. 276; p. 773.
Belting, hose, &c. Chicago Pneumatic Tool Company. No. 133,226; July 20; v. 276; p. 590.
Belting, hose, machinery packing, and non-metallic tires. Imperial Belting Company. No. 133,145; July 13; v. 276; p. 402.
Belting, hose, machinery packing, and non-metallic tires. Polson Rubber Co. No. 133,301; July 20; v. 276; p. 592.
Belting, hose, machinery packings, &c. Imperial Belting Company. No. 133,144; July 13; v. 276; p. 402.
Beverage, Cereal, maltless. L. Roy. No. 133,440; July 27; v. 276; p. 770.
Beverage, Non-alcoholic, &c., fruit. Victor Products Co. No. 133,537; July 27; v. 276; p. 772.
Beverage, Non-alcoholic non-intoxicating non-cereal maltless. J. G. Metropol. No. 133,440; July 27; v. 276; p. 760.
Beverage, Non-intoxicating. Southern Beverage Company. No. 133,513; July 27; v. 276; p. 772.
Beverage, Non-intoxicating cereal. Fairmont Beverage Co. No. 133,409; July 27; v. 276; p. 768.
Beverages, Non-alcoholic. The Krantz Products Company. No. 133,447; July 27; v. 276; p. 769.
Beverages and syrups for making same and colors and flavors in preparation thereof, Non-alcoholic non-cereal maltless. Burton Brothers. No. 133,366; July 27; v. 276; p. 767.
Beverages, Non-intoxicating cereal. E. L. Ropkins. No. 133,028; July 6; v. 276; p. 203.
Billiard-cue tips. N. E. Bensinger. No. 132,896; July 6; v. 276; p. 199.
Boards and building-paper, Wall and sheathing. Niagara Wall Board Company. No. 133,477; July 27; v. 276; p. 770.
Boards Ouija-. A. S. Crockett. No. 133,112; July 13; v. 276; p. 401.
Books, booklets, circulars, &c., Printed. C. F. Haanel. No. 133,419; July 27; v. 276; p. 760.
Bottle-washing machines. Geo. J. Meyer Manufacturing Co. No. 133,164; July 13; v. 276; p. 403.
Brassière combination-undergarments and undergarments for women. The Warner Brothers Company. No. 133,087; July 6; v. 276; p. 205.
Brassières. C. V. Havens. No. 132,961; July 6; v. 276; p. 201.
Bread. Ward Baking Company. Nos. 133,083–5; July 6; v. 276; p. 205.
Bricks and building-blocks. H. J. F. Ludeman. No. 133,274; July 20; v. 276; p. 591.
Brooms. Crocker Broom and Brush Co. No. 132,922; July 6; v. 276; p. 200.
Brooms. Newton Broom Co. No. 133,009; July 6; v. 276; p. 203.
Brooms and brushes. M. Marcus. No. 132,997; July 6; v. 276; p. 202.
Brooms, brushes, and mops. Geo. A. Fink Co. No. 132,939; July 6; v. 276; p. 201.
Brushes. A. Bourjois & Co. No. 132,890; July 6; v. 276; p. 199.

Brushes, floor-brooms, dusters. J. C. Pushee & Sons. No. 133,023; July 6; v. 276; p. 203.
Brushes, Hat-. R. Swisky. No. 133,053; July 6; v. 276; p. 204.
Brushes, Phonograph-record. Parks & Parks. No. 133,480; July 27; v. 276; p. 770.
Brushes, Shaving-. Kampfe Bros. Nos. 132,977–8; July 6; v. 276; p. 202.
Brushes, Shine-removing. A. J. Rheinberger. No. 133,025; July 6; v. 276; p. 203.
Brushes, Talking-machine-record. Blackman Talking Machine Co. No. 133,355; July 27; v. 276; p. 767.
Building and roofing purposes, Composition strips and sheets for. Cleveland-Akron Bag Company. No. 133,229; July 20; v. 276; p. 590.
Buildings and structural elements thereof, Permanent. H. K. Ferguson Company. No. 133,244; July 20; v. 276; p. 590.
Buildings, Steel. Liberty Steel Products Company. No. 133,453; July 27; v. 276; p. 770.
Bunting. C. H. Reed. No. 133,024; July 6; v. 276; p. 203.
Burs and broaches. Usona Dental Company. Nos. 133,073–4; July 6; v. 276; p. 205.
Cabinet and exercising apparatus, Sweat-. J. Cooper. No. 132,919; July 6; v. 276; p. 200.
Cabinets and parts of same, Filing-. National Cash Register Company. No. 133,291; July 20; v. 276; p. 591.
Cabinets for storage and filing purposes, Steel. Hart & Hutchinson Company. No. 133,257; July 20; v. 276; p. 590.
Cabinets, Kitchen-. Vincennes Furniture Mfg. Co. No. 133,336; July 20; v. 276; p. 593.
Candies, Chocolate. The Gorton Chocolate Co. No. 133,418; July 27; v. 276; p. 769.
Candies. Hawley & Hoops. No. 132,970; July 6; v. 276; p. 202.
Candy. American Candy Company. No. 132,877; July 6; v. 276; p. 199.
Candy. C. A. Crane. No. 132,921; July 6; v. 276; p. 200.
Candy. C. A. Crane. No. 133,111; July 13; v. 276; p. 401.
Candy. Schuler Chocolate Factory. Nos. 133,035–6; July 6; v. 276; pp. 203–4.
Candy-bars. M. Williams. No. 133,197; July 13; v. 276; p. 404.
Canes, parasols, and umbrellas. Tiffany & Company. No. 133,528; July 27; v. 276; p. 772.
Canned fruits and vegetables. Herbert Packing Co. Nos. 132,965–6; July 6; v. 276; p. 201.
Canned vegetables. J. E. Barr Pickling & Preserving Company. Nos. 132,891–2; July 6; v. 276; p. 199.
Canned vegetables. California Packing Corporation. No. 133,222; July 20; v. 276; p. 589.
Cards, Playing-. Root Playing Card Co. No. 133,027; July 6; v. 276; p. 203.
Cards, Playing-. The United States Playing Card Company. Nos. 133,070–1; July 6; v. 276; p. 205.
Cards, Playing-. W. D. Roy. No. 133,030; July 6; v. 276; p. 203.
Carpets. Harrod's Stores, Limited. No. 132,959; July 6; v. 276; p. 201.
Carpets and rugs formed of rags, &c. Coral Manufacturing Company. Nos. 133,392–4; July 27; v. 276; p. 768.
Cars, Tank-. General American Tank Car Corporation. No. 132,948; July 6; v. 276; p. 201.
Cartridges, shells, caps, &c. Remington Arms Union Metallic Cartridge Co. No. 133,498; July 27; v. 276; p. 771.
Castings, Malleable-iron. Fort Pitt Malleable Iron Co. No. 132,942; July 6; v. 276; p. 201.
Chains for motor-trucks, &c., Power-driven transmission or drive. Baldwin Chain and Manufacturing Company. No. 133,210; July 20; v. 276; p. 589.
Chalk product in tablet form, Pharmaceutical. J. A Willing. No. 133,545; July 27; v. 276; p. 773.
Cheese-cutters, Computing. Computing Cheese Cutter Co. No. 133,110; July 13; v. 276; p. 401.
Chemicals and chemical oils for use in the manufacture of fertilizer. Eugene Suter & Company. No. 133,189; July 13; v. 276; p. 404.
Chemicals, medicines, and pharmaceutical preparations. Società Industrie Chimiche Ittiolo. No. 133,184; July 13; v. 276; p. 403.
Chocolates. Shall's Inc. No. 133,033; July 6; v. 276; p. 203.
Cigarettes. J. Christoforides. No. 133,383; July 27; v. 276; p. 768.
Cigarettes. Emanuel & Woodward. No. 133,544; July 27; v. 276; p. 772.
Cigarettes. Frishmuth Bro. & Company. No. 133,415; July 27; v. 276; p. 768.
Cigarettes. Halle-Perris Trading Corporation. Nos. 133,420–1; July 27; v. 276; p. 769.
Cigarettes. Liggett & Myers Tobacco Company. No. 133,272; July 20; v. 276; p. 591.
Cigarettes. Liggett & Myers Tobacco Company. No. 133,455; July 27; v. 276; p. 770.
Cigarettes. Minnesota Tobacco Company. No. 133,468; July 27; v. 276; p. 770.
Cigarettes. R. D. Messayeh. No. 133,465; July 27; v. 276; p. 770.
Cigarettes. Russian Tea Room & Art Shop. Nos. 133,311–13; July 20; v. 276; p. 592.
Cigarettes. Standard Export Cigarette Corporation. No. 133,324; July 20; v. 276; p. 592
Cigarettes. Tobacco Products Corporation No. 133,331; July 20; v. 276; p. 593.
Cigars. A. Garcia. No. 133,247; July 20; v. 276; p. 590.
Cigars. Harkert Cigar Co. No. 133,255; July 20; v. 276; p. 590.
Cigars. Kirschbaum Company, The. No. 133,269; July 20; v. 276; p. 591.
Cigars. J. J. Mauser. No. 133,280; July 20; v. 276; p. 591.
Cigars. Perfecto Manufacturers. Nos. 133,299–300; July 20; v. 276; p. 592.
Cigars. T. E. Taugher. No. 133,525; July 27; v. 276; p. 772.
Cigars. Utopia Cigar Company. No. 133,536; July 27; v. 276; p. 772.
Cigars. W. P. Roberts. Nos. 133,503–4; July 27; v. 276; p. 771.
Cigars. Walker-Matteson Company. No. 133,539; July 27; v. 276; p. 772.
Cigars. William J. Fisher & Co. No. 133,413; July 27; v. 276; p. 768.
Cigars, cigarettes, and smoking and chewing tobacco. P. Cannizzaro & Co. No. 133,370; July 27; v. 276; p. 767.
Cigars, cigarettes, and tobacco. B. Zilberstien. No. 133,551; July 27; v. 276; p. 773.
Cigars, cigarettes, cheroots, &c. D. A. Schulte. No. 133,508; July 27; v. 276; p. 771.
Cigars, cigarettes, chewing and smoking tobacco. F. A. de Pilla. No. 133,390; July 27; v. 276; p. 768.
Cigars, little cigars, and cigarettes. P. Lorillard Company. No. 133,489; July 27; v. 276; p. 771.
Cleaning compound for fabrics, glass, &c. G. W. Reinhardt Co. No. 133,497; July 27; v. 276; p. 771.
Cleanser, Household. P. F. Brophy. No. 133,362; July 27; v. 276; p. 767.
Clock and watch dials. T. Bargman. No. 133,100; July 13; v. 276; p. 401.
Clock-dial. Mayclese. No. 133,000; July 6; v. 276; p. 202.
Cloth piece goods. Johnston Dry Goods Co. No. 133,442; July 27; v. 276; p. 769.
Clothes, Men's and young men's. Morris Marans Sons. No. 133,278; July 20; v. 276; p. 591.
Clothes-lines. C. C. Davis. No. 132,925; July 6; v. 276; p. 200.
Clothing. Cisco, Inc. No. 133,109; July 13; v. 276; p. 401.
Clothing. Guiterman, Rosenfeld & Company. No. 133,252; July 20; v. 276; p. 590.
Clothing. L. Potter. No. 133,176; July 13; v. 276; p. 403.
Clothing. United Stay Company. No. 133,334; July 20; v. 276; p. 593.
Clothing. Wise Bros. No. 133,344; July 20; v. 276; p. 593.
Clothing and wearing-apparel, Boys'. New York Boys' Shops. No. 133,292; July 20; v. 276; p. 591.
Clothing, Boys' outer. American Novelty Wash Suit Co. No. 133,205; July 20; v. 276; p. 589.
Clothing for boys and young men. Sears, Roebuck and Co. No. 133,317; July 20; v. 276; p. 592.
Clothing for ladies, misses, and children. J. A. Migel, Inc. No. 133,283; July 20; v. 276; p. 591.
Clothing, Men's and children's. Walter M. Steppacher & Bro. No. 133,518; July 27; v. 276; p. 772.
Coat, Shawl-. Louis Katzman, Inc. No. 132,979; July 6; v. 276; p. 202.
Coats for young boys and girls. M. Berkwits. No. 133,353; July 27; v. 276; p. 767.
Coats, outer vests, and work-shirts for men. Johnson-Bostwick & Co. No. 133,264; July 20; v. 276; p. 591.
Coffee. L. H. Davis. No. 132,926; July 6; v. 276; p. 200.
Coffee. The E. C. Harley Company. Nos. 132,957–8; July 6; v. 276; p. 201.
Coffee, tea, spices mustard, &c. David G. Evans' Coffee Co. No. 132,935; July 6; v. 276; p. 201.
Concrete, Prepared bituminous. M. Moulton, Jr. No. 133,287; July 20; v. 276; p. 591.
Concrete slabs, Composition for making. The National Builders Company. No. 133,290; July 20; v. 276; p. 591.
Conduits, conductors, and electrical merchandise. The Thomas & Betts Co. No. 133,191; July 13; v. 276; p. 404.
Conduits, Ignition-wire. E. V. Stuart. No. 133,050; July 6; v. 276; p. 204.
Confectionery. Borden's Condensed Milk Company. No. 133,301; July 27; v. 276; p. 767.
Construction material, Celite Products Company. No. 133,225; July 20; v. 276; p. 589.
Construction material. The Cleveland-Akron Bag Co. No. 133,228; July 20; v. 276; p. 590.
Construction material. The Lehon Company. No. 133,271; July 20; v. 276; p. 591.
Construction materials. Weyerhaeuser Forest Products. No. 133,341; July 20; v. 276; p. 593.
Cookers, Fireless. The Diller Mfg. Co. No. 132,928; July 6; v. 276; p. 200.
Cord, Maître-. Brownell & Company. No. 132,901; July 6; v. 276; p. 199.

Cordage, Hemp. Società Anonima Filature e Tessiture Riunite. No. 133,183; July 13; v. 276; p. 403.
Corn products, oatmeal, &c. H. Howson. No. 132,971; July 6; v. 276; p. 202.
Corsets. The Van Orden Company. Nos. 133,076–8; July 6; v. 276; p. 205.
Cots and couches. Bernstein Manufacturing Company. No. 133,212; July 20; v. 276; p. 589.
Cotton and knit piece goods, muslins, ribbons, webs, and webbing, &c. Rider Wallis Dry Goods Co. No. 133,308; July 20; v. 276; p. 592.
Cotton, Lint-. Standard Cotton Company of America. No. 133,515; July 27; v. 276; p. 772.
Cotton piece goods. Fearing, Whiton & Co. No. 133,128; July 13; v. 276; p. 402.
Cotton piece goods. Kelsey Textile Corporation. No. 133,445; July 27; v. 276; p. 769.
Cotton piece goods. R. A. Sufern. No. 133,520; July 27; v. 276; p. 772.
Cotton piece goods. Swift Mfg. Co. No. 133,522; July 27; v. 276; p. 772.
Cotton piece goods, cotton and silk, and cotton and worsted dress goods. Wm. Simpson, Sons & Co. No. 133,511; July 27; v. 276; p. 771.
Couches, Extension or sliding. The United States Spring Bed Company. No. 133,333; July 20; v. 276; p. 593.
Cream and nutmeg, Food-flavoring. The Brown Chemical Co. No. 132,900; July 6; v. 276; p. 199.
Cream, Complexion-. T. Noonan & Sons Company. No. 133,478; July 27; v. 276; p. 770.
Cream, Toilet. B. E. Lapeyre. No. 133,155; July 13; v. 276; p. 402.
Cushions, Furniture-. S. Karpen & Bro. No. 133,266; July 20; v. 276; p. 591.
Cutlery, machinery, and tools, and parts thereof. John Kenyon & Co. (Sheffield.) No. 133,267; July 20; v. 276; p. 591.
Cutlery, machinery, and tools, and parts thereof. Chicago Pneumatic Tool Company. No. 133,108; July 13; v. 276; p. 401.
Cutlery, machinery, and tools, and parts thereof. Ingersoll-Rand Company. No. 133,147; July 13; v. 276; p. 402.
Cutlery, machinery, and tools, and parts thereof. National Equipment Company. No. 133,169; July 13; v. 276; p. 403.
Dental, medical, and surgical appliances. C. Dewitt Lukens Surgical Manufacturing Co. No. 133,158; July 13; v. 276; p. 403.
Dental, medical, and surgical appliances. United Drug Company. No. 133,068; July 6; v. 276; p. 205.
Dental dam, surgeons' gloves, &c. United States Rubber Company. No. 133,072; July 6; v. 276; p. 205.
Dental pliers and forceps. Utica Drop Forging & Tool Company. No. 133,075; July 6; v. 276; p. 205.
Digester-tankage, Stock food. Standard By-Products Co. No. 133,045; July 6; v. 276; p. 204.
Directories of stores and shops. C. S. Rindsfoos. No. 133,502; July 27; v. 276; p. 771.
Doll-buggies. C. M. Farrer. No. 132,938; July 6; v. 276; p. 201.
Dolls. New Toy Co. No. 133,173; July 13; v. 276; p. 403.
Dolls. G. Pfeffer. No. 133,018; July 6; v. 276; p. 203.
Dolls. E. Shaver. No. 133,039; July 6; v. 276; p. 204.
Dolls. E. Shaver. No. 133,181; July 13; v. 276; p. 403.
Doughnuts. S. G. Leoffler, Jr. No. 132,988; July 6; v. 276; p. 202.
Draperies and decorative fabrics. Marshall Field & Company. No. 133,279; July 20; v. 276; p. 591.
Drawings or pictures, Comic. International Feature Service. Nos. 133,437–8; July 27; v. 276; p. 769.
Dresses. Langfelder & Shrier. No. 133,270; July 20; v. 276; p. 591.
Dresses. I. Mittelman & Co. No. 133,286; July 20; v. 276; p. 591.
Dresses and skirts. The Friedman-Haas Co. No. 133,246; July 20; v. 276; p. 590.
Dresses, House or apron. Sterling Manufacturing Company. No. 133,046; July 6; v. 276; p. 204.
Dresses, Ladies' and misses'. Mannie Solomon Company. No. 133,043; July 6; v. 276; p. 204.
Dresses, Women's, misses', and children's. R. H. Macy & Co. No. 133,275; July 20; v. 276; p. 591.
Dressing for fabrics and leather. Motor Car Supplies Manufacturing Company. No. 133,473; July 27; v. 276; p. 770.
Driers, filters, and separators and parts thereof, Centrifugal. S. S. Henworth Company. No. 133,259; July 20; v. 276; p. 590.
Drills and shirtings. William Schall & Co. No. 133,034; July 6; v. 276; p. 203.
Earthworking implements. Dunham Company. No. 133,402; July 27; v. 276; p. 768.
Electric accumulators or secondary batteries. H. Leitner and W. H. Exley. No. 132,987; July 6; v. 276; p. 202.
Electric light and power plants, equipment, and parts. Electric Auto-Lite Corporation. No. 133,404; July 27; v. 276; p. 768.
Electric-lighting plants, electric-storage-battery locomotives, &c., Isolated. Allied Machinery Company of America. No. 132,873; July 6; v. 276; p. 199.
Electric plants, Unitary. The Matthews Engineering Co. No. 132,998; July 6; v. 276; p. 202.
Electrical apparatus, machines, and supplies. Cherry Tree Machine Company. No. 133,107; July 6; v. 276; p. 401.
Electrical apparatus, machines, and supplies. J. E. Dockendorff & Co. No. 133,117; July 13; v. 276; p. 401.
Electrical supplies. J. E. Dockendorff & Co. Nos. 133,118–9; July 13; v. 276; p. 401.
Electrodes, High-potential-electricity-arrester. F. B. Parker. No. 133,016; July 6; v. 276; p. 203.
Electromedical switchboard for electric-bath use. McIntosh Battery & Optical Co. No. 132,996; July 6; v. 276; p. 202.
Engines and parts thereof, Explosive-. The Burnett-Larah Manufacturing Company. No. 133,221; July 20; v. 276; p. 589.
Explosives, Granular and gelatinous. E. I. Du Pont de Nemours & Company. No. 133,238; July 20; v. 276; p. 590.
Fabric made with a cotton warp and a filling of wool or mohair, &c. Lesher, Whitman & Co. No. 133,989; July 6; v. 276; p. 202.
Fabrics, Narrow woven. C. Prosnits. No. 133,022; July 6; v. 276; p. 203.
Fabrics of silk and silk mixtures. Cheney Brothers. No. 132,911; July 6; v. 276; p. 200.
Fabrics, Textile. W. S. Gavey. No. 133,248; July 20; v. 276; p. 590.
Fabrics, Woven, printed, and dyed drapery. A. M. Barbe. No. 132,890; July 6; v. 276; p. 199.
Fancy goods, furnishings, and notions. Joseph Louis & Co. No. 133,265; July 20; v. 276; p. 591.
Fancy goods, furnishings, and notions. Herbert Terry & Sons. No. 133,190; July 13; v. 276; p. 404.
Felt for construction purposes, Prepared. J. H. Stone. No. 133,327; July 20; v. 276; p. 593.
Fertilizer. The American Agricultural Chemical Company. No. 132,876; July 6; v. 276; p. 199.
Fireworks. Unexcelled Manufacturing Company. No. 133,532; July 27; v. 276; p. 772.
Fishing-lines. Cortland Line Co. No. 132,920; July 6; v. 276; p. 200.
Fishing rods, hooks, nets, lines, &c. Cumberland (Aylestone), Limited. No. 132,924; July 6; v. 276; p. 200.
Flat-ware, Plated. Oneida Community. Nos. 133,012–14; July 6; v. 276; p. 203.
Flooring, Lumber and hardwood. The Mowbray & Robinson Company. No. 133,288; July 20; v. 276; p. 591.
Floors and stuccos of magnesite base, Composition. G. B. Smith. No. 133,321; July 20; v. 276; p. 592.
Flour, Wheat-. T. L. Carroll Company. No. 132,908; July 6; v. 276; p. 200.
Flour, Wheat-. The Commercial Milling Co. No. 133,230; July 20; v. 276; p. 590.
Flour, Wheat-. Lawrenceburg Roller Mills Co. No. 132,986; July 6; v. 276; p. 202.
Flour, Wheat-. The Scott County Milling Company. No. 133,038; July 6; v. 276; p. 204.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 133,056; July 6; v. 276; p. 204.
Food-choppers, combination meat and food cutters, &c. Griswold Manufacturing Company. No. 133,135; July 13; v. 276; p. 402.
Foods, Prepared sea-. Charles Noble, Jr., Company. No. 133,174; July 13; v. 276; p. 403.
Fruit and fresh vegetables. Atlantic Coast Distributors. No. 132,882; July 6; v. 276; p. 199.
Furnace structures, Refractory lining for. Quigley Furnace Specialties Co. No. 133,304; July 20; v. 276; p. 592.
Furnishing goods, hosiery, and notions, Men's and ladies'. Shushan Bros. & Co. No. 133,040; July 6; v. 276; p. 204.
Furniture and woodwork, Polish for. F. A. Rader. No. 133,305; July 20; v. 276; p. 592.
Furniture, Convertible. T. B. Draper. No. 133,400; July 27; v. 276; p. 768.
Furniture, Nursery. M. Rice Company. No. 133,501; July 27; v. 276; p. 771.
Furniture, Office. Cutler Desk Co. No. 133,397; July 27; v. 276; p. 768.
Fuses and cut-outs, Electric. Bussman Manufacturing Company. No. 132,907; July 6; v. 276; p. 200.
Games and toys. The A. C. Gilbert Company. No. 133,132; July 13; v. 276; p. 402.
Games, Card. W. M. Coleman. No. 133,389; July 27; v. 276; p. 768.
Games, Card. F. Hood. No. 132,969; July 6; v. 276; p. 202.
Garments, except hats, Women's outer. H. Hunvald. No. 133,435; July 27; v. 276; p. 769.
Garments, Men's and children's outer. Cohen, Goldman & Co. No. 132,912; July 6; v. 276; p. 200.
Gear reducers, power-transmission machinery, &c., Spur-. W. A. Jones Foundry & Machine Co. No. 133,151; July 13; v. 276; p. 402.
Ginghams and cotton piece goods. Parkhill Mfg. Co. No. 133,482; July 27; v. 276; p. 770.
Ginghams, cotton goods, silk and cotton goods in the piece. Sanger Brothers. No. 133,314; July 20; v. 276; p. 592.
Glass globes and reflectors for artificial light. Holophane Glass Company. No. 133,430; July 27; v. 276; p. 769.
Glassware, Table and fancy. George Borgfeldt & Co. No. 133,104; July 13; v. 276; p. 401.

Gloves. The Biltwell Glove Company. No. 133,213; July 20; v. 276; p. 589.
Gloves and mittens, Leather and cloth. Wisconsin-Pilot Glove Company. No. 133,343; July 20; v. 276; p. 593.
Gloves, Knit. Morgan Knitting Mills. No. 133,166; July 13; v. 276; p. 403.
Golf-clubs. A. G. Spalding & Bros. No. 133,165; July 13; v. 276; p. 403.
Golf-putters. Tru-Aim Manufacturing Company. No. 133,065; July 6; v. 276; p. 204.
Gowns. J. Nemser. No. 133,007; July 6; v. 276; p. 203.
Graphite, Powdered. E. F. Hartsell. No. 133,425; July 27; v. 276; p. 769.
Grease-cups. The Lunkenheimer Company. Nos. 133,159–60; July 13; v. 276; p. 403.
Guns, bombs, &c., Machine, &c. Handley Page Limited. No. 133,423; July 27; v. 276; p. 769.
Hair-clippers, motors, and hair-driers, Electric. The Moore Electric Corporation. No. 133,006; July 6; v. 276; p. 203.
Hair-dressing. Tono-Scalpa Company. No. 133,529; July 27; v. 276; p. 772.
Hair-nets. The Bloch Chemical Company. No. 133,356; July 27; v. 276; p. 767.
Hair-nets. Hartmann Brothers. No. 133,258; July 20; v. 276; p. 590.
Hair-nets. Paristyle Novelty Co. Inc. No. 133,481; July 27; v. 276; p. 770.
Handkerchiefs. S. I. Gross. No. 132,952; July 6; v. 276; p. 201.
Handkerchiefs. Hyman Bauman & Co. No. 132,894; July 6; v. 276; p. 199.
Handkerchiefs. The International Handkerchief Mfg. Co. No. 133,439; July 27; v. 276; p. 769.
Handkerchiefs. Rice-Stix Dry Goods Company. No. 133,500; July 27; v. 276; p. 771.
Hardtack. A. V. Peterson. No. 133,488; July 27; v. 276; p. 771.
Hardware and plumbing and steam-fitting supplies. Aktiebolaget Arca Regulator. No. 133,202; July 20; v. 276; p. 589.
Hardware and plumbing and steam-fitting supplies. The Farm Equipment Co. No. 133,243; July 20; v. 276; p. 590.
Hardware and plumbing and steam-fitting supplies. S. J. Gulesian. No. 133,253; July 20; v. 276; p. 590.
Hardware and plumbing and steam-fitting supplies. Tew Patent Development Company. No. 133,330; July 20; v. 276; p. 593.
Hardware and plumbing and steam-fitting supplies. Walworth Manufacturing Company. No. 133,195; July 13; v. 276; p. 404.
Hardware supplies. National Brass Company. No. 133,168; July 13; v. 276; p. 403.
Harness, belts, and coupling attachments, Aviators'. A. V. Roe & Co. No. 133,505; July 27; v. 276; p. 771.
Hats, Men's felt. Frank Schoble & Co. No. 133,179; July 13; v. 276; p. 403.
Hats, Trimmed and untrimmed. Mayer & Goldsmith. No. 133,463; July 27; v. 276; p. 770.
Hats, Women's, misses', and children's trimmed. David Baird and Son. No. 133,099; July 13; v. 276; p. 401.
Hearing, Mechanical devices used as an aid to. E. B. Meyrowitz, Inc. No. 133,001; July 6; v. 276; p. 203.
Heaters and furnaces, Coal-burning. Michigan Service Corporation. No. 133,002; July 6; v. 276; p. 203.
Heaters and parts thereof. J. H. Grayson Mfg. Co. No. 133,134; July 13; v. 276; p. 402.
Heating, lighting, and ventilating apparatus. Hammer-Bray Co. No. 133,139; July 13; v. 276; p. 402.
Heel and toe plates for shoes. L. Hasel. No. 132,960; July 6; v. 276; p. 201.
Hides and leather. Kullman, Salz & Co. No. 132,984; July 6; v. 276; p. 202.
Hides for shoe-uppers, Tanned leather. Anchor Leather Co. No. 133,350; July 27; v. 276; p. 767.
Hosiery. The Fair. No. 133,127; July 13; v. 276; p. 402.
Hosiery. W. T. Grant Co. No. 132,951; July 6; v. 276; p. 201.
Hosiery. Mitchell Hosiery Company. No. 133,470; July 27; v. 276; p. 770.
Hosiery. Rodgers Hosiery Company. No. 133,026; July 6; v. 276; p. 203.
Hosiery. A. A. Wuest. No. 133,347; July 20; v. 276; p. 593.
Hosiery. Dalton Hosiery Mills. No. 133,232; July 20; v. 276; p. 590.
Hosiery and underwear for men, women, and children. C. W. Taves Co. No. 133,329; July 20; v. 276; p. 593.
Hosiery, Women's. Wayne Knitting Mills. No. 133,285; July 20; v. 276; p. 591.
Ice-cream. Ivan R. Nordhem Company. No. 133,293; July 20; v. 276; p. 591.
Insulators made of porcelain, Electric. Taylor, Tunnicliff and Company. No. 133,060; July 6; v. 276; p. 204.
Interest tables, Yearly-. S. G. Miller. No. 133,467; July 27; v. 276; p. 770.
Iron and steel. Federal Tool & Alloy Steel Corporation. No. 133,129; July 13; v. 276; p. 402.
Irrigation systems, and valves and parts of such systems, Lawn and garden. Hadden Automatic Sprinkler Company. No. 133,136; July 13; v. 276; p. 402.
Jam, preserves, jelly, and table-syrup, Pure fruit. W. H. Dyer Company. No. 132,933; July 6; v. 276; p. 200.
Jewelry. Distinctive Jewelry Co. No. 132,929; July 6; v. 276; p. 200.
Jewelry, &c. Tiffany & Company. No. 133,063; July 6; v. 276; p. 204.
Jewelry and pearls, Pearl. D. W. Thomas. No. 133,062; July 6; v. 276; p. 204.
Journey to the moon, Apparatus symbolizing a. S. P. Thompson. No. 133,527; July 27; v. 276; p. 772.
Keys and locks. Segal Lock & Hardware Co. No. 133,318; July 20; v. 276; p. 592.
Knit garments, Men's and women's. Hand Knit Hosiery Co. No. 133,422; July 27; v. 276; p. 769.
Knitted dress goods known as jersey cloth in the piece, Ladies'. C. Bahnsen & Co. No. 132,889; July 6; v. 276; p. 199.
Knitted, netted, and textile fabrics. Jennings Lace Works Corp. No. 133,149; July 13; v. 276; p. 402.
Knitted underwear. Everett Knitting Works. No. 133,126; July 13; v. 276; p. 401.
Laces and embroideries in the piece. Blanck & Co. No. 133,357; July 27; v. 276; p. 767.
Laces and embroideries in the piece. Ely & Walker D. G. Co. No. 133,405; July 27; v. 276; p. 768.
Lacquer and varnishes. Providence Specialty Company. No. 133,494; July 27; v. 276; p. 771.
Lamps, Arc and incandescent electric. Energy Electric Company. No. 132,934; July 6; v. 276; p. 201.
Lamps, Electric. Maxwell-Ray Company. No. 132,999; July 6; v. 276; p. 202.
Lamps, Electric incandescent. General Electric Company. No. 132,949; July 6; v. 276; p. 201.
Lamps, Incandescent. Whitelite Electric Company. Co. Nos. 133,090–1; July 6; v. 276; p. 205.
Lamps, torches, lanterns, candelabra. Art Lamp Mfg. Co. No. 132,881; July 6; v. 276; p. 199.
Lard substitute. Hodgson Oil Refining Co. No. 133,261; July 20; v. 276; p. 591.
Lathes, Engine-. South Bend Lathe Works. No. 133,323; July 20; v. 276; p. 592.
Leather. Monarch Leather Company. Nos. 133,471–2; July 27; v. 276; p. 770.
Leather, and particularly kid-leather. Dungan, Hood & Co. No. 132,931; July 6; v. 276; p. 200.
Leather boots and shoes. Whitmore-Tirrell Shoe Corporation. No. 133,092; July 6; v. 276; p. 205.
Leather, finished and partly finished. The Ulmer Leather Company. No. 133,531; July 27; v. 276; p. 772.
Leather hides. The Tropics Corporation. No. 133,064; July 6; v. 276; p. 204.
Lenses, Ophthalmic, &c. American Optical Company. Nos. 133,206–8; July 20; v. 276; p. 589.
Letters or numbers. Chas. F. Lorenzen & Co. Nos. 132,992–3; July 6; v. 276; p. 202.
Letters or numbers. Chas. F. Lorenzen & Co. No. 133,273; July 20; v. 276; p. 591.
Limbs, Artificial. O. E. Worman. No. 133,199; July 13; v. 276; p. 404.
Liniments, lotions, salves, ointments, and powders used in treating horses and cattle. The Converse Supply Company. No. 132,918; July 6; v. 276; p. 200.
Liquors, Distilled alcoholic. Boord & Son. No. 133,103; July 13; v. 276; p. 401.
Locks. Miller Lock Company. No. 133,284; July 20; v. 276; p. 591.
Locks, Door-rim, desk, berth, &c. Adams & Westlake Company. No. 133,201; July 20; v. 276; p. 589.
Lubricators, Mechanical. The Lunkenheimer Company. No. 133,161; July 13; v. 276; p. 403.
Macaroni, spaghetti, and noodles. P. F. Skinner. No. 133,041; July 6; v. 276; p. 204.
Macaroni, spaghetti, noodles. Foulds-Briggs Co. No. 133,414; July 27; v. 276; p. 768.
Machinery and tools and parts thereof. L. L. Gilcrease. No. 133,133; July 13; v. 276; p. 402.
Machinery and tools, dies, jigs, and parts thereof, Special Tool Engineering Manufacturing Company. No. 133,186; July 13; v. 276; p. 403.
Machinery, Electrical. The Imperial Electric Co. No. 132,973; July 6; v. 276; p. 202.
Machines, Soil-tilling. Dunham Company. No. 133,401; July 27; v. 276; p. 768.
Magazine, Monthly. Class Journal Corporation. Nos. 133,385–6; July 27; v. 276; p. 768.
Magazine, Monthly. M. K. Burckett. No. 133,365; July 27; v. 276; p. 767.
Magazine, Weekly. Manufacturers Record Publishing Company. No. 133,462; July 27; v. 276; p. 770.
Magazines, Monthly. Commerce Publications Company. No. 133,391; July 27; v. 276; p. 768.
Manicure sets. Northam Warren Corporation. No. 133,010; July 6; v. 276; p. 203.
Mats, Floor-. E. Jackson. No. 132,975; July 6; v. 276; p. 202.
Mattresses. Perfection Mattress & Spring Co. No. 133,487; July 27; v. 276; p. 771.
Mattresses, pillows, springs. Greenpoint-Southern Company. No. 133,251; July 20; v. 276; p. 590.
Medicinal preparations for the treatment of certain named ailments. The Calco Chemical Company. No. 133,369; July 27; v. 276; p. 767.
Medicine for constipation. E. Jacobs. No. 133,441; July 27; v. 276; p. 769.

Medicine for gout and certain named ailments. A. Lev. No. 133,451; July 27; v. 276; p. 770.
Metal, Babbitt. United American Metal Corporation. No. 133,192; July 13; v. 276; p. 404.
Metal ingots, Non-ferrous. Eastern Brass and Ingot Corporation. No. 133,124; July 13; v. 276; p. 401.
Metal, Non-ferrous. Bausch Machine Tool Company. No. 132,895; July 6; v. 276; p. 199.
Metals and metal castings and forgings. American Iron Products Company. No. 133,204; July 20; v. 276; p. 589.
Metals and metal castings and forgings. Blue Ridge Metals Corporation. No. 133,102; July 13; v. 276; p. 401.
Metals, Antifriction Babbitt. Ohio Metal Co. No. 133,294; July 20; v. 276; p. 592.
Middy-blouses and envelop-chemise. Higginbotham-Bailey-Logan Company. No. 133,429; July 27; v. 276; p. 769.
Milk, Dry. The Dry Milk Company. No. 133,122; July 13; v. 276; p. 401.
Milling-cutters, reamers, twist-drills, and taps. E. G. Wrigley & Co. Nos. 133,845–6; July 20; v. 276; p. 593.
Millstones, Electrically-operated grinders for. R. G. Hankins Company. No. 133,140; July 13; v. 276; p. 402.
Mirrors and retinoscopes, Dental, &c. A. A. Ansell. No. 132,880; July 6; v. 276; p. 199.
Motors, Internal-combustion. The Rollaway Company. No. 133,310; July 20; v. 276; p. 592.
Mouth wash or spray. O. H. Tansey. No. 133,057; July 6; v. 276; p. 204.
Music, Sheet-. Producer Music Company. No. 133,493; July 27; v. 276; p. 771.
Nails, Molders'. The Fowler Nail Co. No. 133,130; July 13; v. 276; p. 402
Name-plates and instruction-plates, Blank. Handley Page Limited. No. 132,955; July 6; v. 276; p. 201.
Napkin-holders commercially known as sanitary belts. Sanaho Specialty Company. No. 133,032; July 6; v. 276; p. 203.
Neckties, cravats, mufflers, and collars. Rice-Stix Dry Goods Company. No. 133,307; July 20; v. 276; p. 592.
Newspaper. Rev. L. Rojnowski. No. 133,360; July 27; v. 276; p. 767.
Newspaper-section title. Globe Printing Company. No. 133,417; July 27; v. 276; p. 769.
Newspaper-sections. Los Angeles Examiner. Nos. 133,456–8; July 27; v. 276; p. 770.
Notions. Waldes & Co. Nos. 133,079–82; July 6; v. 276; p. 205.
Nut-bars, Candied. Northwestern Candy Company. No. 133,011; July 6; v. 276; p. 203.
Oats, Rolled. The Cerno Mills Company. No. 133,395; July 27; v. 276; p. 768.
Office equipment and furniture, Steel. The Berger Manufacturing Company. No. 133,852; July 27; v. 276; p. 767.
Oil, Olive-. D. Mangrané. Nos. 133,276–7; July 20; v. 276; p. 591.
Oil, Substitute for linseed-. The Hulbert Oil & Grease Co. No. 133,262; July 20; v. 276; p. 591.
Oils and adhesive core compounds, Core-. Detroit Soluble Oil Co. No. 133,116; July 13; v. 276; p. 401.
Oils and greases. Johnson Oil Refining Company. No. 133,150; July 13; v. 276; p. 402.
Oils and greases. Sun Company. Nos. 133,187–8; July 13; v. 276; p. 403.
Ointment for external use. W. H. Young. No. 133,546; July 27; v. 276; p. 773.
Ointment, Healing-. Seminole Chemical Co. No. 133,180; July 13; v. 276; p. 403.
Packing, Composition. P. S. Dodd. No. 133,121; July 13; v. 276; p. 401.
Paint, Anti-corrosive. Corrosanti Chemical Co. No. 133,231; July 20; v. 276; p. 590.
Paint for acoustical work, Coating-. J. H. Stone. No. 133,328; July 20; v. 276; p. 593.
Paints. Block & Kuhl Company. No. 133,358; July 27; v. 276; p. 767.
Paints and painters' materials. The Imperial Varnish and Color Company. No. 133,263; July 20; v. 276; p. 591.
Paints and painters' materials. The Patterson-Sargent Company. Nos. 133,483–4; July 27; v. 276; p. 771.
Paints, driers, wood-stains, &c. The Patterson-Sargent Company. Nos. 133,296–7; July 20; v. 276; p. 592.
Paints, paint-oils, varnishes, shellacs, lacquers, and finishes. A. R. Haeuser Co. No. 133,254; July 20; v. 276; p. 590.
Paints, pigments, colors ground in japan, oil-stains, &c. Kent & Purdy Paint Company. No. 133,152; July 13; v. 276; p. 402.
Paints, stains. Colonial Works. No. 133,390; July 27; v. 276; p. 768.
Pajamas and nightgowns. Ely & Walker Dry Goods Company. No. 133,241; July 20; v. 276; p. 590.
Pajamas, union-pajamas, sleeping and lounging garments, and night-shirts. M. Harris. No. 133,256; July 20; v. 276; p. 590.
Pamphlets and booklets. Edison Storage Battery Company. No. 133,403; July 27; v. 276; p. 768.
Pants and coats, Boys'. Liberty Boys Knee Pants Co. No. 133,452; July 27; v. 276; p. 770.
Paper and stationery. Knowlton Bros. Inc. No. 133,446; July 27; v. 276; p. 769.
Paper, Collodion self-toning printing-out. J. L. Lewis. No. 133, 157; July 13; v. 276; p. 403.
Paper fiber. M. B. Fredericks. No. 132,946; July 6; v. 276; p. 201.
Parasols and umbrellas. J. A. Migel, Inc. No. 133,466; July 27; v. 276; p. 770.
Paste, Adhesive. Ideal Paste & Chemical Works. No. 132,972; July 6; v. 276; p. 202.
Pastry, Cup or dish-like receptacles, fried or baked. The F. Beaumont National-Croustade Manufacturing Company. No. 133,211; July 20; v. 276; p. 589.
Patches, Tube-. Leach Patch Company. No. 133,156; July 13; v. 276; p. 402.
Pens, Fountain ruling-. Designers Instrument Company. No. 133,233; July 20; v. 276; p. 590.
Periodical or magazine, Weekly. The Butterick Publishing Company. No. 133,368; July 27; v. 276; p. 767.
Photographic film. Eastman Kodak Company. No. 133,126; July 13; v. 276; p. 401.
Photographic prints. Howland & Dewey Company. No. 133,434; July 27; v. 276; p. 769.
Photographs and reprints thereof. New York Times Company. Nos. 133,475–6; July 27; v. 276; p. 770.
Photographs, Portrait-. E. Blum. No. 133,359; July 27; v. 276; p. 767.
Piano and automobile polish. Emil Wiederhold & Bro. No. 133,342; July 20; v. 276; p. 593.
Picture apparatus and accessories, Motion-. United Theatre Equipment Corporation. No. 133,194; July 13; v. 276; p. 404.
Picture films, Motion-. Selznick Pictures Corporation. No. 133,319; July 20; v. 276; p. 592.
Picture films, Moving-. The Bray Pictures Corporation. No. 133,218; July 20; v. 276; p. 589.
Picture films, Moving-. L. E. Davidson. No. 133,233; July 20; v. 276; p. 590.
Picture films, Moving-. S. H. Hadley. No. 133,137; July 13; v. 276; p. 402.
Picture films, Moving-. C. E. Hallgren. No. 133,138; July 13; v. 276; p. 402.
Picture films showing animated drawings, Moving-. The Bray Pictures Corporation. No. 133,217; July 20; v. 276; p. 590.
Piece goods. J. A. Migel, Inc. No. 133,003; July 6; v. 276; p. 203.
Piece goods. Renfrew Mfg. Co. No. 133,490; July 27; v. 276; p. 771.
Pipe-wrenches. Walworth Manufacturing Company. No. 133,196; July 13; v. 276; v. 404.
Pipes and splicings, Wooden. D. Eichenfeld. No. 133,230; July 20; v. 276; p. 590
Piston-rings. A. B. Chance. No. 133,373; July 27; v. 276; p. 767.
Piston-rings. V. Flex Piston Ring Company. No. 133,337; July 20; v. 276; p. 593.
Plants, Rose-. The Conard & Jones Company. No. 132,915; July 6; v. 276; p. 200.
Playground and gymnasium apparatus. Fred Medart Mfg. Co. No. 133,464; July 27; v. 276; p. 770.
Plumbing and steam-fitting supplies. International Couplers Company. No. 133,148; July 13; v. 276; p. 402.
Pockets for garments. J. C. Darst. No. 133,398; July 27; v. 276; p. 768.
Polish for floors, furniture, woodwork, and automobile-bodies. The Standard Products Co. No. 133,325; July 20; v. 276; p. 592.
Powder for false teeth. G. L. Wernet. No. 133,088; July 6; v. 276; p. 205.
Powder-puffs. A. Gigho. No. 132,950; July 6; v. 276; p. 201.
Powder-puffs. Penn Rivet Corporation. No. 133,017; July 6; v. 276; p. 203.
Preparation for hardening and waterproofing cement mixtures. Granitex Company. No. 133,250; July 20; v. 276; p. 590.
Preparation for making cake. Atmore & Son. No. 132,883; July 6; v. 276; p. 199.
Preparation for the treatment of certain named ailments. Radway & Co. No. 133,495; July 27; v. 276; p. 771.
Preparation used internally in cases of chronic constipation, mucous colitis, &c. J. Kalish Inc. No. 133,444; July 27; v. 276; p. 769.
Printed sheets. National Geographic Society. No. 133,170; July 13; v. 276; p. 403.
Printing-press inking-rollers. The B. F. Goodrich Company. No. 133,249; July 20; v. 276; p. 590.
Publication. Fairchild Company. No. 133,410; July 27; v. 276; p. 768.
Publication, Advertising. F. W. Brown. Nos. 133,363–4; July 27; v. 276; p. 767.
Publication, Monthly. United Shoe Machinery Athletic Association. No. 133,534; July 27; v. 276; p. 772.
Publication, Trade. National Council of Traveling Salesmen's Associations. No. 133,474; July 27; v. 276; p. 770.
Publication, Trade. Ready To Wear Publishing Company. No. 133,496; July 27; v. 276; p. 771.
Publication, Weekly. Aldrich Publishing Company. No. 133,348; July 27; v. 276; p. 767.
Publication, Weekly. Embroiderers' Publishing Corporation. No. 133,406; July 27; v. 276; p. 768
Publications. Poor's Publishing Company. No. 133,490; July 27; v. 276; p. 771.

Quilts, cotton and wool blankets, and traveling-rugs. Rogers, Hennessey & Jenkins. No. 133,309; July 20; v. 276; p. 592.
Raincoats. Kahn Tailoring Company. No. 133,443; July 27; v. 276; p. 760.
Remedy compound, vegetable and mineral, Blood-. R. A. Courtney. No. 133,396; July 27; v. 276; p. 768.
Ribbons in the piece, Silk. The Taylor-Friedsam Company. No. 133,059; July 6; v. 276; p. 204.
Rubber boot and shoe heels. United Lace & Braid Manufacturing Company. No. 133,533; July 27; v. 276; p. 772.
Rubber-soled shoes. Sears, Roebuck and Co. No. 133,316; July 20; v. 276; p. 592.
Rubber water-bags and bottles. The Miller Rubber Company. No. 133,004; July 6; v. 276; p. 203.
Rock-drills. Ingersoll-Rand Company. No. 133,146; July 13; v. 276; p. 402.
Roofing in the form of plates and sheets, Zinc. The American Zinc Products Company. No. 132,879; July 6; v. 276; p. 199.
Rope, Braided. Tate Manufacturing Company. No. 133,058; July 6; v. 276; p. 204.
Rope, cord, twine, and binder-twine. International Harvester Company. No. 132,974; July 6; v. 276; p. 202.
Running-boards, mats for automobile running-boards and floors, &c. The C. Spiro Mfg. Co. No. 133,514; July 27; v. 276; p. 772.
Salt, Table-. Walker-Matteson Company. No. 133,540; July 27; v. 276; p. 772.
Sand-boxes, Knockdown. H. D. Tucker. No. 133,530; July 27; v. 276; p. 772.
Sanitary goods. M. S. George. No. 133,131; July 13; v. 276; p. 402.
Saws and machine, cane, &c., knives. Sheffield Works, Inc. No. 133,182; July 13; v. 276; p. 403.
Scales, measuring-pumps, Computing. W. C. Pritchard. No. 133,303; July 20; v. 276; p. 592.
Scalp, face, and skin treatment liquids, pile-remedy ointment. J. E. Loudenslayer. No. 133,459; July 27; v. 276; p. 770.
Screw and chucking machines. The New Britain Machine Company. No. 133,171; July 13; v. 276; p. 403.
Seat-pads, Ventilating. E. J. Faber. No. 133,242; July 20; v. 276; p. 590.
Seats known as bleachers, Portable. Leavitt Mfg. Co. No. 133,450; July 27; v. 276; p. 770.
Seeds, Flower and sweet-pea. Oscar H. Will & Co. No. 133,093; July 6; v. 276; p. 205.
Seeds, Flower, field, and vegetable. Stokes Seed Farms Company. No. 133,519; July 27; v. 276; p. 772.
Seeds, Grass and field. Continental Seed Company. No. 132,917; July 6; v. 276; p. 200.
Seeds, Lawn and grass. Oscar H. Will & Co. No. 133,094; July 6; v. 276; p. 205.
Semitrailers. King Trailer Company. No. 132,980; July 6; v. 276; p. 202.
Sewing-machines and parts thereof. Union Special Machine Company. No. 133,332; July 20; v. 276; p. 593.
Shingles. Chinook Lumber & Shingle Co. No. 133,227; July 20; v. 276; p. 590.
Shirt-waists, Ladies'. La Rose Garment Company. No. 133,448; July 27; v. 276; p. 769.
Shirts, work and night shirts, and pajamas, Mens' flannel. A. Krolik & Company. No. 132,983; July 6; v. 276; p. 202.
Shoes and slippers, Children's, misses', and growing girls' leather. Howard-Hulme-Dittrich Shoe Co. No. 133,433; July 27; v. 276; p. 769.
Shoes and slippers, Women's, misses', children's, infants', felt. George Borgfeldt & Co. No. 133,216; July 20; v. 276; p. 589.
Shoes, Leather, rubber, and canvas. Mrs. A. R. King. No. 133,268; July 20; v. 276; p. 591.
Shoes made of leather and cloth, Women's high and low. The Duttenhofer-Stevens Co. No. 132,932; July 6; v. 276; p. 200.
Signals for vehicles, Traffic-. Auto Indicator Company. No. 133,209; July 20; v. 276; p. 589.
Silk and cotton piece goods and combinations of same. W. Skinner & Sons. No. 133,512; July 27; v. 276; p. 771.
Silk and cotton piece goods and combinations of the same. Turner & Walls. No. 133,067; July 6; v. 276; p. 204.
Silk-filled crêpe de chine piece goods. Nathan and Cohen Co. No. 133,289; July 20; v. 276; p. 591
Silk goods in the piece. Henri Gutmann Silks Corporation. No. 133,427; July 27; v. 276; p. 769.
Silk goods in the piece. T. J. Mitchell & Co. No. 133,469; July 27; v. 276; p. 770.
Silk in the piece. Stavisky & Greenstone. No. 133,516; July 27; v. 276; p. 772.
Silk piece goods. S. Eiseman & Co. No. 133,240; July 20; v. 276; p. 590.
Silk piece goods. Empire Silk Company. No. 133,407; July 27; v. 276; p. 768.
Silk piece goods. H. R. Mallinson & Co. No. 133,461; July 27; v. 276; p. 770.
Silk, wool, linen, &c., piece goods. Bianchini, Férier. No. 133,354; July 27; v. 276; p. 767.
Silks, velvets, &c. United Silk Mills. No. 133,535; July 27; v. 276; p. 772.
Skates, Ice-. The Samuel Winslow Skate Mfg. Co. No. 133,506; July 27; v. 276; p. 771.
Skirts. Mazzei Skirt Co. No. 133,282; July 20; v. 276; p. 591.
Skylight-bars. Steelead Skylight Co. No. 133,326; July 20; v. 276; p. 593.
Soap. Procter & Gamble Company. No. 133,492; July 27; v. 276; p. 771.
Solvent or softener to facilitate the cleaning of certain named articles. Three In One Oil Company. No. 133,061; July 6; v. 276; p. 204.
Spark-plugs. Aircraft & Motor Products Co. No. 133,097; July 13; v. 276; p. 401.
Spark-plugs. Brewster-Goldsmith Corp. Inc. No. 133,219; July 20; v. 276; p. 589.
Spark-plugs. Rummell Manufacturing Works. No. 133,031; July 6; v. 276; p. 203.
Spark-plugs. Stitt Ignition Co. No. 133,048; July 6; v. 276; p. 204.
Sparking plugs for internal-combustion engines. Forward Sparking Plug Co. No. 132,943; July 6; v. 276; p. 201.
Spectacles, eyeglasses, eyeglass-mountings, opthalmic lenses, &c. Wall & Ochs. No. 133,338; July 20; v. 276; p. 593.
Spoons, Wooden. J. H. Mulholland. No. 133,167; July 13; v. 276; p. 403.
Springs and mattresses, Bed and couch. Shott Manufacturing Company. No. 133,509; July 27; v. 276; p. 771.
Sprinklers, Automatic. R. W. Newton. No. 133,172; July 13; v. 276; p. 403.
Stationery. White & Wyckoff Manufacturing Company. No. 133,543; July 27; v. 276; p. 772.
Staybolt-taps. W. L. Brubaker & Bros. No. 133,220; July 20; v. 276; p. 589.
Steel bars, rods, billets, &c. Sanderson Bros. & Co. No. 133,507; July 27; v. 276; p. 771.
Steel, Iron, &c., Wrought. Connecticut Electric Steel Co. No. 132,916; July 6; v. 276; p. 200.
Stovepipe and elbows. Hemp and Co. (Corp.) No. 133,426; July 27; v. 276; p. 769.
Stovepipes and elbows. Hemp & Co. (Corp.). Nos. 132,962–4; July 6; v. 276; p. 201.
Stoves, Alcohol-. F. Chapman. No. 132,910; July 6; v. 276; p. 200.
Sugar, Granulated cane-. Federal Sugar Refining Company. No. 133,412; July 27; v. 276; p. 768.
Suits, Boys'. Hessberg, Morris & Gunst. No. 133,260; July 20; v. 276; p. 591.
Surgical appliances. Dental Products Company. No. 133,115; July 13; v. 276; p. 401.
Sweaters, bathing-suits. Amer Knitting Mills. No. 133,203; July 20; v. 276; p. 589.
Sweaters, shawls, scarfs, hoods, and caps. Imperial Knitting Co. No. 133,436; July 27; v. 276; p. 769.
Syrup, Table-. J. R. Cargill. No. 133,371; July 27; v. 276; p. 767.
Syrup, Table-. The L. and T. Company. No. 132,985; July 6; v. 276; p. 202.
Syrups, Corn and maltose. Young & Wile. No. 133,200; July 13; v. 276; p. 404.
Tables and cabinets, Kitchen. Blue Bird Manufacturing Company. No. 133,215; July 20; v. 276; p. 589.
Tablet, Medicinal. G. W. Carnick Co. No. 133,372; July 27; v. 276; p. 767.
Tablets. Preston Chemical Company. No. 133,491; July 27; v. 276; p. 771.
Tea, Herb. J. G. Sultanaki. No. 133,523; July 27; v. 276; p. 772.
Teeth, Artificial. G. Flint. No. 132,940; July 6; v. 276; p. 201.
Textile fabrics in the piece, Worsted and woolen. Holden-Leonard Company. Nos. 132,967–8; July 6; v. 276; p. 202.
Textiles in the piece. C. A. Coleman Company. No. 133,388; July 27; v. 276; p. 768.
Theaters, Miniature. E. Moore. No. 113,165; July 13; v. 276; p. 403.
Thread and yarn. H. E. Locke & Company. No. 132,991; July 6; v. 276; p. 202.
Thread or yarn, Mercerised cotton. Summit Thread Company. No. 133,052; July 6; v. 276; p. 204.
Thread, Shoe-. Commonwealth Thread Co. Nos. 132,913–4; v. 276; July 6; p. 200.
Thermometers, sphygmomanometers, &c., Clinical. C. J. Tagliabue Mfg. Co. Nos. 133,054–5; July 6; v. 276; p. 204.
Tile, brick, and artificial stone. Formby Petrinite Corporation. No. 133,245; July 20; v. 276; p. 590.
Timepieces. F. W. Alter. No. 132,875; July 6; v. 276; p. 199.
Timepieces. F. W. Alter. No. 133,098; July 13; v. 276; p. 401
Tin, Pig-. Richards and Co. No. 133,177; July 13; v. 276; p. 403.
Tire-pumps, Hand-operated. Mayo-Skinner Manufacturing Company. No. 133,281; July 20; v. 276; p. 591.
Tires and inner tubes. Outer casings for automobile-. Victor Rubber Company. No. 133,538; July 27; v. 276; p. 772.
Tires and tubes, Automobile and truck. Mason Tire & Rubber Co. No. 133,162; July 13; v. 276; p. 403.
Tires and tubes, Rubber. C. Kenyon Company. No. 133,153; July 13; v. 276; p. 402.
Tires, Inner tubes for vehicle-. Dural Rubber Corporation. No. 133,123; July 13; v. 276; p. 401.
Tires, Universal Tire & Rubber Association. No. 133,335; July 20; v. 276; p. 593.

Tires, tire-casings, and inner tubes, Rubber. Canton Blackstone Company. No. 133,224; July 20; v. 276; p. 589.
Tires, tubes, boots, and tire-patches, Rubber and fabric vehicle-. Washington Tire & Rubber Company. Nos. 133,339–40; July 20; v. 276 p. 593.
Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 133,454; July 27; v. 276; p. 770.
Tobacco, Smoking-. Zorro Tobacco Co. No. 133,550; July 27; v. 276; p. 773.
Tobacco and cigarettes, Smoking and chewing. American Tobacco Company. No. 133,349; July 27; v. 276; p. 767.
Toilet and manicure sets. Herculean Products Company. Nos. 133,141–2; July 13; v. 276; p. 402.
Toilet preparations. Talcum Puff Company. No. 133,524; July 27; v. 276; p. 772.
Toilet preparations. I. J. Tetlow. No. 133,526; July 27; v. 276; p. 772.
Toilet preparations for treating the skin. Geo. Zubrod & Co. No. 133,552; July 27; v. 276; p. 773.
Toothbrushes. M. Levy. No. 133,990; July 6; v. 276; p. 202.
Toothbrushes. Williams, Davis, Brooks & Hinchman Sons. No. 133,547; July 27; v. 276; p. 773.
Toweling. J. F. White & Co. No. 133,542; July 27; v. 276; p. 772.
Toy aeroplanes. P. Pierce. No. 133,019; July 6; v. 276; p. 203.
Toy furniture. R. W. Porter. No. 133,020; July 6; v. 276; p. 203.
Toy molds and molding-wax for same. L. E. Butler. No. 133,367; July 27; v. 276; p. 767.
Toy savings-banks. M. Stoltz. No. 133,049; July 6; v. 276; p. 204.
Toy soldiers, dishes, and furniture. Ferdinand Gutmann & Co. No. 132,954; July 6; v. 276; p. 201.
Toy vehicle. E. G. Kirtz. No. 132,981; July 6; v. 276; p. 202.
Toy vehicle—viz., coaster. R. H. Blackburn. No. 132,898; July 6; v. 276; p. 199.
Toys. O. M. Burton. No. 133,105; July 13; v. 276; p. 401.
Trucks, Motor-. Ward La France Truck Co. No. 133,086; July 6; v. 276; p. 205.
Tungsten. Metal & Thermit Corporation. No. 133,163; July 13; v. 276; p. 403.
Twines, string, and cordage. C. C. Davis. No. 133,113; July 13; v. 276; p. 401.
Typewriters. Blickensderfer Manufacturing Company. No. 133,101; July 13; v. 276; p. 401.
Underwear, Knitted. De Milo Distributing Co. No. 133,234; July 20; v. 276; p. 590.
Underwear, Men's and boys'. W. D. Porter. No. 133,302; July 20; v. 276; p. 592.
Underwear, night-robes, dresses, and blouses, Women's and children's. M. E. Smith & Co. No. 133,322; July 20; v. 276; p. 592.
Union-suits, Woven and knitted. Neustadter Brothers. No. 133,008; July 6; v. 276; p. 203.
Vacuum tube devices, parts and accessories therefor. Wireless Specialty Apparatus Company. No. 133,095; July 6; v. 276; p. 205.
Valves, Automatic relief-. Dew Valve Co. No. 132,927; July 6; v. 276; p. 200.
Valves, Compressor-. Bury Compressor Company. No. 133,106; July 13; v. 276; p. 401.
Valves for general use, pump-governors, and pressure-reducing valves, Metal. Framingham Manufacturing Company. No. 132,944; July 6; v. 276; p. 201.
Varnish-paint. Ault & Wiborg Co. Nos. 132,884–8; July 6; v. 276; p. 199.
Varnish, Prepared liquid. The Don-O-Lac Co. No. 133,236; July 20; v. 276; p. 590.
Varnishes for electric insulation. The Sterling Varnish Company. No. 133,047; July 6; v. 276; p. 204.
Vegetables, Dehydrated. Twin Falls Dehydrating Co. No. 133,066; July 6; v. 276; p. 204.
Vegetables, Fresh. Crowd Packing Company. No. 132,923; July 6; v. 276; p. 200.
Voiles in the piece. M. Schwarz. No. 133,037; July 6; v. 276; p. 204.
Wall or partition sections or units. A. H. Revell & Co. No. 133,306; July 20; v. 276; p. 592.
Washing compound. A. E. Cleveland. No. 133,387; July 27; v. 276; p. 768.
Washing compound. Mab Cleaner Manufacturing Company. No. 133,460; July 27; v. 276; p. 770.
Waste cotton, silk, and waste paper, &c., Bales or bags of. M. Frank. No. 132,945; July 6; v. 276; p. 201.
Watch and clock dials. J. R. Bartlett. No. 132,893; July 6; v. 276; p. 199.
Watch and clock dials, Protective facings or coverings for. I. Florman. No. 132,941; July 6; v. 276; p. 201.
Watchcases. Roy Watch Case Company. No. 133,029; July 6; v. 276; p. 203.
Watches. W. J. Bernard. No. 132,897; July 6; v. 276; p. 199.
Watches. J. Bulova Company. Nos. 132,903–6; July 6; v. 276; p. 200.
Watches. Dubois Watch Case Company. No. 132,930; July 6; v. 276; p. 200.
Watches. The D. Gruen Sons & Company. No. 132,953; July 6; v. 276; p. 201.
Watches. Knickerbocker Watch Co. No. 132,982; July 6; v. 276; p. 202.
Watches. Knickerbocker Watch Co. No. 133,154; July 13; v. 276; p. 402.
Watches and parts thereof. Société Anonyme Les fils de L. Braunschweig, Fabrique Election. No. 133,042; July 6; v. 276; p. 204.
Water-bottles, syringe-bags, &c. The Miller Rubber Co. No. 133,005; July 6; v. 276; p. 203.
Water-towers, Steel. J. Armstrong. No. 133,351; July 27; v. 276; p. 767.
Weatherproof coats. W. O. Peake Ltd. No. 133,298; July 20; v. 276; p. 592.
Webbing in the piece. Hope Webbing Company. No. 133,432; July 27; v. 276; p. 769.
Webs, Elastic. Faire Bros. & Co. Nos. 132,936–7; July 6; v. 276; p. 201.
Webs, Elastic. Faire Bros. & Co. No. 133,408; July 27; v. 276; p. 768.
Webs, Elastic. Faire Bros. & Co. No. 133,411; July 27; v. 276; p. 768.
Windshield-cleaners. Outlook Company. No. 133,015; July 6; v. 276; p. 203.
Wines and champagnes, Non-alcoholic. Wm. H. Hommel. No. 133,431; July 27; v. 276; p. 769.
Wiping and cleaning apparatus for automobile windshields, &c. Presto-Felt Mfg. Co. No. 133,021; July 6; v. 276; p. 203.
Wire and manila ropes and wire cables. Western Rope & Manufacturing Company. No. 133,089; July 6; v. 276; p. 205.
Wire and metallic strips of an allow containing manganese. Driver-Harris Company. No. 133,237; July 20; v. 276; p. 590.
Woodworking-machines. S. A. Woods Machine Co. No. 133,198; July 13; v. 276; p. 404.
Woolen goods in the piece. Worumbo Manufacturing Company. No. 133,549; July 27; v. 276; p. 773.
Woolen piece goods. Pawcatuck Woolen Mills. No. 133,486; July 27; v. 276; p. 771.
Woolens, worsted, silk, &c., piece goods. Pearsall & Company. No. 133,486; July 27; v. 276; p. 771.
Worsted and woolen textile fabrics in the piece. Holden-Leonard Company. No. 133,428; July 27; v. 276; p. 769.
Yarn, Knitting-. Carver-Beaver Yarn Co. No. 132,909; July 6; v. 276; p. 200.

ALPHABETICAL LIST OF LABELS.

"Beaux Arts Candy." (For Candies.) C. W. Cannar. No. 21,910; July 27; v. 276; p. 774.
"Bitrose Scotties." (For Candies.) Bitrose Company. No. 21,908; July 27; v. 276; p. 774.
"Chump." (For Soaps.) California Soap Company, Inc. No. 21,909; July 27; v. 276; p. 774.
"Cotec." (For Pile-Ointment.) T. E. Connor. No. 21,911; July 27; v. 276; p. 774.
"Cup & Saucer." (For Coffee.) Dwinell-Wright Company. No. 21,912; July 27; v. 276; p. 774.
"Delaine." (For Toilet Paper.) Wm. H. Williams Co. No. 21,924; July 27; v. 276; p. 774.
"Denison's Original Famous Cancer Ointment." (For an Ointment for Cancer.) Alfred Denison & Son. No. 21,904; July 20; v. 276; p. 594.
"Flossies." (For Candy Lozenges.) The Flossmint Company. No. 21,913; July 27; v. 276; p. 774.
"Franks." (For Frankforts—Namely, Sausages. Frank & Company. No. 21,905; July 20; v. 276; p. 594.
"Idaho Apples." (For Fresh Apples.) Judah P. Gray. No. 21,914; July 27; v. 276; p. 774.
"Lemon Cleansing Cream." (For a Massage and Cleansing Cream.) A. J. Krank. No. 21,917; July 27; v. 276; p. 774.
"Lemon Vanishing Cream." (For a Skin Cream.) A. J. Krank. No. 21,918; July 27; v. 276; p. 774.
"Log Cabin." (For Candy—Namely, Pecan Rolls.) Pulos Bros. No. 21,921; July 27; v. 276; p. 774.
"Mi Candita." (For Cigars.) V. Jordan. No. 21,916; July 27; v. 276; p. 774.
"Nacarine." (For a Lotion for the Complexion.) The Nacarine Co. No. 21,920; July 27; v. 276; p. 774.
"Nut-All." (For Oleomargarin.) The Baltimore Butterine Co. No. 21,906; July 27; v. 276; p. 774.
"Our-Home-Made." (For Malt-Syrup.) C. T. Zirkle. No. 21,925; July 27; v. 276; p. 774.
"Over the Top." (For a Game.) E. B. Sode Paper-Box Company. No. 21,923; July 27; v. 276; p. 774.
"Packard Brand, Egyptian Style." (For Butter-Cream Chocolates.) R. A. Sanburg. No. 21,922; July 27; v. 276; p. 774.
"Rosa-Belle." (For Silks.) Lindeke, Warner & Sons, Incorporated. No. 21,919; July 27; v. 276; p. 774.
"Sciroppo Tamarindo." (For Non-Intoxicating Beverages.) The Italian Distilling Co. No. 21,915; July 27; v. 276; p. 774.
"Silver Star." (For Oleomargarin.) The Baltimore Butterine Co. No. 21,907; July 27; v. 276; p. 774.
"Toyland Special." (For Crackers Known as Toyland Special and Cut in the Shape of a Car.) P. I. Jacoby. No. 21,903; July 6; v. 276; p. 206.

ALPHABETICAL LIST OF PRINTS.

"Don't Buy New Corsets." (For Dye-Soap.) Sunbeam Chemical Co. No. 5,274; July 27; v. 276; p. 774.
"Graham Beauty Secret." (For a Preparation for Cleansing the Skin.) P. Graham. No. 5,268; July 27; v. 276; p. 774.
"King 8 Sedanette." (For Automobiles.) King Car Corporation of New York. No. 5,269; July 27; v. 276; p. 774.
"One of the few things 5 cents will buy—Gold Dust." (For Washing Powder.) The N. K. Fairbank Company. No. 5,267; July 27; v. 276; p. 774.
"Salz $1 Fountain Pen." (For Fountain-Pens.) Salz Brothers. No. 5,272; July 27; v. 276; p. 774.
"Solrex." (For Watches.) Marshall Field and Company. No. 5,270; July 27; v. 276; p. 774.
"Sweeney Tank and Supply Co." (For Tanks and Tank Supplies.) T. E. Sweeney. No. 5,273; July 27; v. 276; p. 774.
"Taxpayers Value Brick Roads." (For Paving-Brick.) National Paving Brick Manufacturers Association. No. 5,271; July 27; v. 276; p. 774.
"Watches That Run." (For Watches.) Adels-Ribakoff Co. Inc. No. 5,266; July 20; v. 276; p. 594.

DISCLAIMERS.

Condenser and method of making the same. A. Pruessman. No. 1,275,468; date of patent Aug. 13, 1918; disclaimer filed June 15, 1920; v. 276; p. 409.
Non-interfering extension or party-line telephone system. T. G. Martin. No. 1,151,554; date of patent Aug. 24, 1915; disclaimer filed June 28, 1920; v. 276; p. 409.
Automatic telephone switching apparatus. T. G. Martin. No. 14,655 (reissue); date of patent June 10, 1918; disclaimer filed June 30, 1920; v. 276; p. 409.
Process of making derivatives of petroleum-hydrocarbons. C. Ellis. No. 1,317,868; date of patent Oct. 7, 1919; disclaimer filed July 3, 1920; v. 276; p. 601.

CLASSIFICATION OF PATENTS

JULY, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

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7: 1,346,415
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36: 1,346,247
2— 11: 1,347,782
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24— 3: 1,345,357
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97: 1,346,660
103: 1,347,759
105: 1,346,039
123: 1,346,487
132: 1,346,696
137: 1,348,102
139: 1,347,429
146: 1,345,621
155: 1,348,120
168: 1,347,827
24— 170: 1,347,171
173: 1,345,956
194: 1,347,324
217: 1,348,011
224: 1,346,657
228: 1,347,604
230: 1,347,515
232: 1,346,906
239: 1,347,725
241: 1,346,046
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245: 1,346,702
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258: 1,348,045
261: 1,346,608
25— 1: 1,347,973
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27: 1,345,845
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42.5: 1,346,638
77: 1,347,361
100: 1,346,640
121: 1,347,015
128: 1,346,844
131: 1,345,371
142: 1,345,605
157: 1,345,410
26— 8: 1,346,549
18: 1,347,714
27: 1,346,259
73: 1,346,446
84: 1,346,722
85: 1,346,665
87.1: 1,346,416
27— 16: 1,345,451
28— 5: 1,348,033
21: 1,345,375
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29— 21: 1,346,601
38: 1,345,743
47: 1,346,892
49: 1,345,770
76: 1,345,809
78: 1,345,890
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80: 1,345,472
84.1: 1,345,651
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31— 14: 1,346,937
99: 1,347,162
32— 1: 1,345,433
6: 1,346,951
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32— 10: 1,345,608
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34: 1,346,335
39: 1,346,781
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35— 3: 1,346,412
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36— 2: 1,347,657
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146: 1,346,989
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155: 1,346,691
41— 5.5: 1,347,029
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7: 1,348,079
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15: 1,345,475
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43— 37: 1,346,674
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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF JULY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, Percy C., Dumbarton, assignor to Hardware Specialty Co., Inc., Richmond, Va. Saw-handle. No. 1,347,432; July 20; v. 276; p. 536.

Adams, Colin H. (See Adams, Samuel H., and C. H.)

Adams, Samuel H. and C. H., Fulford, England. Fluid or air direct-pressure lifting and forcing apparatus for solids and semi-solids. No. 1,347,358; July 20; v. 276; p. 522.

Adams, Otis, assignor of one-half to F. Cooper, near Rio, Ill. Corn-husking cylinder. No. 1,346,931; July 20; v. 276; p. 437.

Adams, William C., Lincoln, Nebr. Flue-closure. No. 1,347,139; July 20; v. 276; p. 478.

Aigner, George J., Chicago, Ill. Index-tab. No. 1,347,241; July 20; v. 276; p. 498.

Akimoff, Nicholas W., Philadelphia, Pa., assignor to Vibration Specialty Company. Shaft-support for testing purposes. No. 1,347,316; July 20; v. 276; p. 513.

Aktiebolaget Ljungströms Angturbin. (See Ljungström, Birger, assignor.)

Aktiebolaget Ljungströms Angturbin. (See Ljungström, Fredrik, assignor.)

Allen, Charles L., Pittsburgh, Pa. Toy firearm. No. 1,347,433; July 20; v. 276; p. 536.

Allen, Scott E., *et al.* (See Lewis, Jesse D., assignor.)

Allison, Joseph K., Iowa Falls, Iowa. Pneumatic necktie. No. 1,347,359; July 20; v. 276; p. 522.

Allyne, Edmund E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion motor. No. 1,347,475; July 20; v. 276; p. 544.

Allyne, Edmund E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Making cylinders for internal-combustion engines. No. 1,347,476; July 20; v. 276; p. 544.

Allyne, Edmund E., Cleveland, Ohio, and J. W. Collins, Detroit, Mich., assignors to The Aluminum Castings Company, Cleveland, Ohio. Motor-cylinder and making same. No. 1,347,477; July 20; v. 276; p. 544.

Alsup, J. T., *et al.* (See Johnson, Albert S., assignor.)

Aluminum Castings Company, The. (See Allyne, E. E., and Collins, assignors.)

Aluminum Castings Company, The. (See Allyne, Edmund E., assignor.)

Aluminum Castings Company, The. (See Diamond, James E., assignor.)

Aluminum Castings Company, The. (See Jeffries, Zay, assignor.)

American Clearing Company, The. (See Barber, Harry E., assignor.)

American Hoist & Derrick Co. (See Crosby, Oliver, assignor.)

American Meter Company. (See Lane, George A., assignor.)

American Optical Company. (See Arnold, Arthur A., assignor.)

American Optical Company. (See Bugbee, Lucian W., assignor.)

American Optical Company. (See Herbert, Pitt H., assignor.)

American Telephone and Telegraph Company. (See Martin, William H., assignor.)

Ames, Elmer F. (See Gibson, H. O., and Ames.)

Andreau, Roland L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Oxidising isoborneol to camphor. No. 1,347,071; July 20; v. 276; p. 465.

Andresen, Herman P., Chicago, Ill. Crusher. No. 1,346,871; July 20; v. 276; p. 425.

Anthony, Alois, Baltimore, Md. Portable clamp. No. 1,347,360; July 20; v. 276; p. 522.

Armstrong, Sir W. G., Whitworth & Company. (See Le Mesurier, Louis J., assignor.)

Arnold, Arthur A., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,347,140; July 20; v. 276; p. 478.

Aronson, Louis V., Newark, N. J. Temperature-indicating device for cooling systems for internal-combustion engines. No. 1,347,317; July 20; v. 276; p. 513.

Art In Buttons. (See Eby, Philip, assignor.)

Ashcroft Manufacturing Company, The. (See Crocker, Ernest B., assignor.)

Atwood, Harry A., Milwaukee, Wis. Chair. No. 1,346,932; July 20; v. 276; p. 437.

Automatic Electric Company. (See Yanochowski, George A., assignor.)

Avery, David, and R. T. D. Williams, Risdon, Hobart, Tasmania, assignors to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Treatment of zinc solutions preparatory to the recovery of zinc by electrodeposition. No. 1,347,200; July 20; v. 276; p. 489.

Avery, Seth S., Pleasant Lake, Ind. Air-pump. No. 1,347,434; July 20; v. 276; p. 536.

B & D Manufacturing Company *et al.* (See Howes, Willis E., assignor.)

Bailey, Stephen L. (See Douglas, W. W., and Bailey.)

Baits, Stuart G. (See Fekete, S. I., and Baits.)

Barber, Harry E., Green Cove Springs, Fla., assignor, by mesne assignments, to The American Clearing Company, Hamilton, Ohio. Anchor for stump-pulling machines and the like. No. 1,346,933; July 20; v. 276; p. 438.

Barber, William, New York, N. Y. Explosive-engine. No. 1,346,805; July 20; v. 276; p. 413.

Bard, Francis N., Highland Park, Ill. Gasket for flexible joints. No. 1,347,470; July 20; v. 276; p. 543.

Barrett Company, The. (See Rothermel, Curtis J., assignor.)

Bartels, Carl. (See Mosler, M., and Bartels.)

Bartholomew, William, Chicago, Ill., assignor to Troy Laundry Manufacturing Company. Safety mechanism for ironing-machines. No. 1,346,872; July 20; v. 276; p. 425.

Bartholomew, William, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Heat-prevention means for extractors. No. 1,346,873; July 20; v. 276; p. 426.

Bartlett, George H., San Francisco, Calif. Interfolding-machine. No. 1,347,242; July 20; v. 276; p. 498.

Bartlett, Omar, and H. Fryer, Lewiston, Idaho. Overhead transit apparatus. No. 1,347,482; July 20; v. 276; p. 546.

Bashara, Samuel F., Houston, Tex. Automatic signal-actuating mechanism for railways. No. 1,346,934; July 20; v. 276; p. 438.

Batchelor, Jamie H., assignor to C. Espy, Savannah, Ga. Vaporizer. No. 1,347,435; July 20; v. 276; p. 537.

Baule, Marie E. A., Lyon, France. Electric impulsion-motor. No. 1,347,002; July 20; v. 276; p. 451.

Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Condenser. No. 1,347,436; July 20; v. 276; p. 537.

Baumann, Karl, Urmston, England, H. L. Guy and J. F. F. Winning, Manchester, England, assignors to The British Westinghouse and Electric Company, Limited. Blade for fluid-pressure turbines. No. 1,347,003; July 20; v. 276; p. 452.

Beall, Fletcher W., Jr., McCalla, Ala. Spark-plug. No. 1,347,437; July 20; v. 276; p. 537.

Beardsley, Edson L., assignor to The Loomis Beardsley Mfg. Company, Columbus, Ohio. Valve-grinding tool. No. 1,347,243; July 20; v. 276; p. 498.

Beck, Friedrich C., Seuzach, near Winterthur, Switzerland. Artificial hand. No. 1,347,004; July 20; v. 276; p. 452.

Beitman, Albert B., assignor to The Outlook Company, Cleveland, Ohio. Bracket for windshield-cleaners. No. 1,347,201; July 20; v. 276; p. 489.

Bellamy, Harry T., Oak Park, Ill., and B. T. Sweely, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Resistance material. No. 1,346,874; July 20; v. 276; p. 426.

Bender, George P., New York, N. Y. Flushing device. No. 1,347,318; July 20; v. 276; p. 514.

Bennet, G. Henry, Springdale, assignor of one-half to W. Hruza, Livingston, Mont. Hay-cocker. No. 1,347,141; July 20; v. 276; p. 478.

Benson, Ralph W. (See Lacerda, Harry A., assignor.)

Bentzel, David E., York, Pa. Gate. No. 1,347,438; July 20; v. 276; p. 537.

Bernat, Raoul, Bordeaux, France. Heavy motor-tractor. No. 1,347,244; July 20; v. 276; p. 498.

Berne, James P., *et al.* (See Shields, George F., assignor.)

Bernheim, Eugene C., Southbridge, Mass. Eyeglasses. No. 1,347,072; July 20; v. 276; p. 465.

Bethlehem Steel Company. (See Lachman, Maurice, assignor.)

Betz, Charles F., St. Louis, Mo. Pastry-feeding mechanism for pastry-cone machines. No. 1,347,073; July 20; v. 276; p. 466.

Bibb, Dandridge H., Aldwych, London, England. Briquet-molding machine. No. 1,347,361; July 20; v. 276; p. 522.

Biette, Henry C., assignor of one-half to J. Thomson and one-half to P. C. Waeastier, Buffalo, N. Y. Combined coffee-percolator and tea-steeper. No. 1,347,142; July 20; v. 276; p. 478.

Bini, Francesco, Milan, Italy. Device for the prevention of pocket-picking. No. 1,347,005; July 20; v. 276; p. 452.

Bisbing, Harry O., Detroit, Mich. Glass-molding machine. No. 1,347,202; July 20; v. 276; p. 490.

Bixby, Chancy E. (See Butman, Lewis F., assignor.)

Blackstone, Elmer E. (See Riley, J. J., and Blackstone.)

Blair, Robert S. (See Washburn, Edwin C., assignor.)

Blake & Johnson Company, The. (See Duston, Ernest W., assignor.)

Blaw-Knox Company. (See Venable, William M., assignor.)

Bloom, Millard P., Mount Washington, Md. Piston-packing. No. 1,346,806; July 20; v. 276; p. 413.

Boas, André, assignor to Societe Anonyme Des Engrenages Citroen, Paris, France. Mechanical screw-jack. No. 1,347,006; July 20; v. 276; p. 452.

Bone, Roberto C., Managua, Nicaragua, assignor of one-half to M. A. Esteva, New York, N. Y. Substitute for linseed-oil and making same. No. 1,347,074; July 20; v. 276; p. 466.

Bowers, Hiester A., Reading, Pa. Calculating-machine. No. 1,347,245; July 20; v. 276; p. 499.

Bogaerts, Hubert, Berlin-Halensee, Germany. Manufacturing reproduction of paintings, maps, wall-papers with rellevo patterns and the like. No. 1,346,807; July 20; v. 276; p. 413.

Borough, Willard L., Fullerton, Calif. Combination rod-socket and overshot fishing-tool. No. 1,347,203; July 20; v. 276; p. 490.

Bosse, William F., Stamford, Tex. Swingletree. No. 1,347,362; July 20; v. 276; p. 522.

Breguet, Louis, Velizy, France, assignor to Societe Anonyme Des Ateliers D'Aviation Louis Breguet, Velizy, Seine-et-Oise, France. Connection of tubes of dissimilar metals. No. 1,347,075; July 20; v. 276; p. 466.

Brenzinger, Julius, Fairfield, Conn., assignor to Sanitary Can Machinery Company, Ellsworth, Me. Non-circular-can-cover-lining machine. No. 1,347,483; July 20; v. 276; p. 546.

Bridges, William H., assignor of one-fourth to M. W. Jennings and one-fourth to S. D. Hart, Cincinnati, Ohio. Cigar-holder. No. 1,347,204; July 20; v. 276; p. 490.

Brigel, Samuel G., assignor to J. M. Haverty, trustee, Pittsburgh, Pa. Method and apparatus for producing a combustible mixture. No. 1,346,935; July 20; v. 276; p. 438.

British Westinghouse Electric and Manufacturing Company, The. (See Baumann, Karl, assignor.)

British Westinghouse and Electric Company, The. (See Baumann, K., Guy, and Winning, assignors.)

British Westinghouse Electric and Manufacturing Company, The. (See Guy, Henry L., assignor.)

British Westinghouse Electric and Manufacturing Company, The. (See Scanes, Arthur E. L., assignor.)

Brown & Bigelow. (See Kristofek, Frank J., assignor.)

Brown, Carl E., Columbus, Ohio. Oil-burner. No. 1,347,007; July 20; v. 276; p. 452.

Brown, Charles F., South Ridge, Kans. Animal-feeder. No. 1,346,936; July 20; v. 276; p. 438.

Brown, Charles T. (See Hand, Edgar K., assignor.)

Brown, Clement, Birmingham, England. Apparatus for measuring the flow of liquids. No. 1,347,143; July 20; v. 276; p. 479.

Brown, Davis, Bucyrus, Ohio, assignor to R. C. Penfield, Chicago, Ill. Process of and apparatus for molding clay products. No. 1,347,484; July 20; v. 276; p. 546.

Brown, Edgar P., Madera, Calif. Grading-machine. No. 1,347,008; July 20; v. 276; p. 453.

Brown, Frederic H., Lebanon, N. H. Dental flask. No. 1,347,205; July 20; v. 276; p. 490.

Brown, Newman T., Seattle, Wash. Motor-car signal. No. 1,347,246; July 20; v. 276; p. 499.

Brown, William R. (See Propert, T. G., and Brown.)

Bruce, William J., Sterling, Ill. Demountable rim for automobile-wheels. No. 1,347,144; July 20; v. 276; p. 479.

Bruyere, Mose, Green Bay, Wis. Crutch and cushion-tip therefor. No. 1,347,320; July 20; v. 276; p. 514.

Bryan, Francis J., administrator. (See Bryan, Daniel R.) (Reissue.)

Buckingham, Fremont H., assignor to The Standard Computing Scale Company, Detroit, Mich. Scale. No. 1,347,206; July 20; v. 276 p. 490.

Buckham, George T. (See Dawson, A. T., and Buckham.)

Budd, George H., Salt Lake City, Utah. Tire-casing seal. No. 1,347,439; July 20; v. 276; p. 537.

Buess, Theophil. (See Gutzwiller, Herbert, assignor.)

Burbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,347,319; July 20; v. 276; p. 514.

Buhl, William, Flushing, N. Y., assignor to Bulkrug Machine Corporation. Power-transmitting means. No. 1,347,076; July 20; v. 276; p. 466.

Bulkrug Machine Corporation. (See Buhl, William, assignor.)

Burke, James W., *et al.* (See Eichorn, Frederick C. H., assignor.)

Burman, Olaf S., Minneapolis, Minn. Boiler-stand. No. 1,346,875; July 20; v. 276; p. 426.

Burns, Robert L. (See Gee, E., and Burns.)

Burritt, F. E., *et al.* (See Johnson, Albert S., assignor.)

Burroughs, Charles F., East Orange, assignor to Composition Machinery Corporation, Newark, N. J. Means for holding impression-plates upon heater-beds. No. 1,346,876; July 20; v. 276; p. 426.

Burroughs, Charles F., East Orange, assignor to Composition Machinery Corporation, Newark, N. J. Filler-cap for receptacles. No. 1,346,877; July 20; v. 276; p. 426.

Burrows, Allen, Los Angeles, Calif. Wall-molding hanger for bird-cages, &c. No. 1,347,009; July 20; v. 276; p. 453.

Buscher, John H., Washington, D. C. Producing lithographic inserts. No. 1,347,010; July 20; v. 276; p. 453.

Butman, Lewis F., Randolph, and C. E. Bixby, Barre, Vt. Milk cooler and strainer. No. 1,346,937; July 20; v. 276; p. 438.

Bryan, Daniel R., Chatham, N. J.; F. J. Bryan, administrator. Apparatus for sorting heterogeneous materials. (Reissue.) No. 14,917; July 20; v. 276; p. 546.

Caine, Marshall, Barberton, Ohio. Segment-block. No. 1,347,247; July 20; v. 276; p. 499.

Caley, Edward C., and C. C. Wray, Burton Pidsea, near Kingston-upon-Hull, England. Agricultural plow. No. 1,347,321; July 20; v. 276; p. 514.

Callaghan, Henry J. (See Callaghan, John J., assignor.)

Callaghan, John J., assignor to H. J. Callaghan, Livermore, Calif. Apparatus for propagating and intensifying electrical oscillations. No. 1,347,440; July 20; v. 276; p. 538.

Campbell, Frank M., Seattle, Wash. Fluid-controlled clutch mechanism. No. 1,347,322; July 20; v. 276; p. 514.

Canady, Buel H., Winslow, Ariz. Removable bearing-plate. No. 1,347,248; July 20; v. 276; p. 499.

Carman, Frank V., Oakland, Calif. Rail-profile instrument. No. 1,347,078; July 20; v. 276; p. 467.

Carmichael, Robert E., Damon, Tex. Sampling. No. 1,346,939; July 20; v. 276; p. 439.

Carmichael, Wilbur J. (See Case, H. C. M., and Carmichael.)

Carlin, Arvid F., New York, N. Y. Toy pistol. No. 1,346,938; July 20; v. 276; p. 439.

Carlisle, Marion N., Appleby, Tex. Planter. No. 1,347,441; July 20; v. 276; p. 538.

Carlson, Oscar F., Chicago, Ill. Center-support bearing. No. 1,347,077; July 20; v. 276; p. 466.

Carroll, Frank, *et al.* (See Lewis, Jesse D., assignor.)

Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Automatic battery-charging system. No. 1,347,323; July 20; v. 276; p. 515.

Case, Harold C. M., and W. J. Carmichael, Urbana, Ill. Stock-feeding device. No. 1,346,878; July 20; v. 276; p. 427.

Castillo, Amando M., Aringay, Philippine Islands. Hand-seeder. No. 347,249; July 20; v. 276; p. 500.

Catlett, Jasper L., Vincennes, Ind. System for numbering motor-cars. No. 1,346,808; July 20; v. 276; p. 413.

Chaloner, Thomas T., New York, N. Y. Resilient wheel. No. 1,347,442; July 20; v. 276; p. 538.

Cherington, George T., Waukegan, Ill. Fastening device for phonograph-springs. No. 1,347,079; July 20; v. 276; p. 467.

Child, Dwight P., Quincy, Ill. Meter service-box and housing for curb-cocks. No. 1,346,879; July 20; v. 276; p. 427.

Childress, Patrick H., assignor of one-half to T. W. Quesenbery, Waynesboro, Va. Ash receiver and sifter. No. 1,346,809; July 20; v. 276; p. 413.

Chilman, Henry A. (See Townsend, Layton W., assignor.)

Christiani, Thomas, Sarles, N. D. Automatically-adjustable bearing. No. 1,347,443; July 20; v. 276; p. 538.

Christiansen, Hans R., Brooklyn, N. Y. Pneumatic motor. No. 1,347,444; July 20; v. 276; p. 538.

Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Slow-down sheet-straightener. No. 1,347,145; July 20; v. 276; p. 479.

Clark, Absolam F., Los Angeles, Calif. Electromechanical propelling and transmitting mechanism. No. 1,347,250; July 20; v. 276; p. 500.

Clark, Edward W., Los Angeles, assignor of one-half to S. S. Turner, Pasadena, Calif. Adjustable core-box. No. 1,347,080; July 20; v. 276; p. 467.

Clark, Edward W., Los Angeles, assignor of one-half to S. S. Turner, Pasadena, Calif. Core-box. No. 1,357,081; July 20; v. 276; p. 467.

Cleaveland Osborn Manufacturing Company, The. (See Frost, Clinton E., assignor.)

Coats, Charles E., assignor to Coats Machine Tool Company, Inc., New York, N. Y. Gage. No. 1,347,207; July 20; v. 276; p. 491.

Coats Machine Tool Company. (See Coats, Charles E., assignor.)

Cockburn, David, and D. MacNicoll, Cardonald, near Glasgow, Scotland. Governing and emergency mechanism. No. 1,347,208; July 20; v. 276; p. 491.

Cochran, Carl T., Houston, Tex. Signal. No. 1,347,011; July 20; v. 276; p. 453.

Collins, Asa W., San Francisco, Calif. Apparatus for binding fractured bones. No. 1,346,940; July 20; v. 276; p. 439.

Collins, John W. (See Allyne, E. E., and Collins.)

Colonial Machine Company. (See Vandercar, William J., assignor.)

Colony, Pearl C., Los Angeles, Calif. Advertising-car construction. No. 1,347,012; July 20; v. 276; p. 453.

Composition Machinery Corporation. (See Burroughs, Charles F., assignor.)

Conlon, Thomas P., New York, N. Y. Lock, bolt, or catch for doors, windows, shutters, or the like. No. 1,347,251; July 20; v. 276; p. 500.

Conner, J. M., *et al.* (See Johnson, Albert S., assignor.)

Connors, Alford A., Universal City, Calif. Book-holder for beds, &c. No. 1,347,471; July 20; v. 276; p. 543.

Consolidated Machine Company. (See Stewart, Laurence E., assignor.)

Continental Can Company. (See Sedwick, Mathew M., assignor.)

Cooper, Fred. (See Adams, Otis, assignor.)

Copeman, Lloyd G., Flint, Mich. Toaster. No. 1,347,013; July 20; v. 276; p. 454.

Corliss, Cullen D., assignor to Michigan Lubricator Company, Detroit, Mich. Grease-cup. No. 1,347,472; July 20; v. 276; p. 543.

Corliss, Cyrus, Boston, Mass. Time-computing apparatus. No. 1,347,014; July 20; v. 276; p. 454.

Crandall, Lehman H., Los Angeles, Calif. Belt-buckle. No. 1,347,324; July 20; v. 276; p. 515.

Creason, Frank, assignor of one-half to W. A. Mullin, Richmond, Mo. Corner-block mold. No. 1,347,015; July 20; v. 276; p. 454.

Crenshaw, Loren O., Los Angeles, Calif., assignor to Magnetic Signal Company. Double-coil oscillating motor. No. 1,347,209; July 20; v. 276; p. 491.

Crick, Arthur, assignor to H. D. Sweetland and A. J. Owen, Bristol, England. Signal-flag for taxicabs. No. 1,347,210; July 20; v. 276; p. 491.

Crocco, Gaetano A., Rome, Italy. Perforating-machine for bank-drafts and other documents. No. 1,347,445; July 20; v. 276; p. 539.

Crocker, Ernest B., Stratford, assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Pressure-gage. No. 1,346,941; July 20; v. 276; p. 439.

Crosby, Oliver, assignor to American Hoist & Derrick Co., St. Paul, Minn. Attachment for rope-blocks. No. 1,347,211; July 20; v. 276; p. 492.

Crowe, David F., Latrobe, Pa. Window-seat. No. 1,347,016; July 20; v. 276; p. 454.

Crowley, Jerome A., Randolph, N. Y. Device for tabulating bonds and other securities. No. 1,347,325; July 20; v. 276; p. 515.

Cuke, Duncan A., and F. J. Twilley, Montreal, Quebec, Canada. Shipping-tag. No. 1,347,212; July 20; v. 276; p. 492.

Cunningham, John S., Des Moines, Iowa. Clutch-pedal lock. No. 1,347,252; July 20; v. 276; p. 501.

Cutler-Hammer Mfg. Co., The. (See Tregoning William C., assignor.)

Dalrymple, Philip W., Baltimore, Md. Tread. No. 1,347,253; July 20; v. 276; p. 501.

Dankmeyer, Charles H., Baltimore, Md. Belting fabric. No. 1,347,254; July 20; v. 276; p. 501.

Darby, John, Summit, N. J., assignor to F. B. Griffin, New York, N. Y. Motion-picture machine. No. 1,346,880; July 20; v. 276; p. 427.

Dathan, Charles F., Chicago, Ill. Torpedo-net for ships. No. 1,347,363; July 20; v. 276; p. 523.

Davenport, Floy E., Callaway, Nebr. Animal gun-trap. No. 1,347,255; July 20; v. 276; p. 501.

Davies, Nelson E., Redwood City, Calif. Fluid-checking device. No. 1,347,017; July 20; v. 276; p. 454.

Davis, James G., Buffalo, N. Y. Floor and ceiling construction. No. 1,347,146; July 20; v. 276; p. 479.

Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Piston. No. 1,347,082; July 20; v. 276; p. 467.

Davis, Laurence R., Providence, R. I., assignor to Revere Rubber Company. Coating apparatus. No. 1,347,256; July 20; v. 276; p. 501.

Davis, Robert S., Powhatan, La. Adjustable standard and heel-knife. No. 1,347,257; July 20; v. 276; p. 502.

Dawley, James C. (See Rinsch, C. W., and Dawley.)

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Electrical signaling system. No. 1,347,258; July 20; v. 276; p. 502.

Dayton Steel Foundry Company, The. (See Walther, George, assignor.)

Decker, Walter W., Minneapolis, Minn. Name-piece for umbrellas. No. 1,346,810; July 20; v. 276; p. 414.

De Long, Oscar T., Atlanta, Ga. Clamp for vulcanizing-machines. No. 1,347,213; July 20; v. 276; p. 492.

Dennis, Fred C., Blair, Okla. Automatic gasolene-dispensing machine. No. 1,347,147; July 20; v. 276; p. 479.

Denver Fire Clay Company. (See Lindsay, George W., assignor.)

De Vault, Ralph P., Battle Creek, Mich. Motion-picture apparatus. No. 1,347,326; July 20; v. 276; p. 515.

Derscha, Joseph, Flint, Mich. Amount-certification rubber check-stamp for banks. No. 1,347,259; July 20; v. 276; p. 502.

Desmarais, Samuel, Cleveland, Ohio. Comb. No. 1,347,260; July 20; v. 276; p. 502.

Dexter Folder Company. (See Christophel, Carl E., assignor.)

Diamond Electric Specialties Corp. (See Rosenfeld, Francis M., assignor.)

Diamond, James E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion-motor cylinder. No. 1,347,478; July 20; v. 276; p. 545.

Dick, Joseph C. F., Stockton, Calif. Tread attachment for tractor-wheels. No. 1,347,018; July 20; v. 276; p. 455.

Dickinson, Edgar D., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,347,327; July 20; v. 276; p. 515.

Diebold, Fritz, Zurich, Switzerland. Process and apparatus for atomizing liquid substances into very small particles. No. 1,346,811; July 20; v. 276; p. 414.

Dieter Nut Company. (See Schrader, John R., assignor.)

Dixon, Galen J., Bishop, Calif. Fish screen or guard. No. 1,346,881; July 20; v. 276; p. 427.

Dom, Alexander, assignor to The Samuel C. Tatum Company, Cincinnati, Ohio. Drilling-machine. No. 1,347,214; July 20; v. 276; p. 492.

Douglas, William W., and S. L. Bailey, Bristol, England. Sight-feed lubricator. No. 1,346,942; July 20; v. 276; p. 440.

Dow, Fred T., Bangor, Me. Drying apparatus. No. 1,347,473; July 20; v. 276; p. 544.

Doyle, Clarence E., Washington, D. C., assignor to Hutchinson Egg-Case Filler Co., Hutchinson, Kans. Receptacle-closure. No. 1,347,446; July 20; v. 276; p. 539.

Doyle, Joseph P., Lakewood, Ohio. Smoke-preventing furnace-door check. No. 1,347,261; July 20; v. 276; p. 502.

Drabek, Charles, assignor to The Drabek Equalizer Company, Cleveland, Ohio. Spring-suspension for vehicles. (Reissue.) No. 14,018; July 20; v. 276; p. 546.

Drabek Equalizer Company, The. (See Drabek, Charles, assignor.) (Reissue.)

Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Protectively coating sheet-metal containers. No. 1,346,943; July 20; v. 276; p. 440.

Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)

Dreis, Herman C., Chicago, Ill. Bending-brake. No. 1,347,474; July 20; v. 276; p. 544.

Driggs, George W., and F. R. Henke, Elyria, Ohio. Object-holder. No. 1,346,944; July 20; v. 276; p. 440.

Driscoll, Con, Coalinga, Calif. Propelling and draft-reducing mechanism for ships and boats. No. 1,347,148; July 20; v. 276; p. 480.

Dronet, Charles, Houston, Tex. Pneumatic tire. No. 1,346,945; July 20; v. 276; p. 440.

Du Pont, E. I., de Nemours and Company. (See Andreau, Roland L., assignor.)

Du Prey, Hartwell A. (See Wade, J., Markin, and Du Prey.)

Duston, Ernest W., assignor to The Blake & Johnson Company, Waterbury, Conn. Collapsible spool. No. 1,346,812; July 20; v. 276; p. 414.

Eastern Tool & Manufacturing Company. (See Peterson, Carl E., assignor.)

Eberl, Frank, New York, N. Y. Folding attachment for beds. No. 1,347,447; July 20; v. 276; p. 539.

Eby, Philip, assignor to Art In Buttons, Inc., Rochester, N. Y. Separating-machine. No. 1,347,215; July 20; v. 276; p. 492.

Eckmann, Aron, assignor to Schweiz. Serum- und -Impfinstitut, Berne, Switzerland. Producing mercuroamino combinations. No. 1,347,083; July 20; v. 276; p. 467.

Edwards, Henry, Birmingham, England. Fastener for bags, purses, and the like. No. 1,347,364; July 20; v. 276; p. 523.

Edmunds and Jones Corporation. (See Godley, Charles E., assignor.)

Edwards, Lake B., Anniston, Ala. Lubricating mechanism. No. 1,347,019; July 20; v. 276; p. 455.

Eggleston Air-Cell Aeroplane Company. (See Eggleston, Thomas L., assignor.)

Eggleston, Thomas L., Washington, D. C., assignor to Eggleston Air-Cell Aeroplane Company. Airplane. No. 1,347,084; July 20; v. 276; p. 468.

Eichorn, Albert H., *et al.* (See Eichorn, Frederick C. H., assignor.)

Eichorn, Frederick C. H., assignor of two-thirds to J. W. Burke and A. H. Eichorn, Boston, Mass. Automobile-lock. No. 1,347,262; July 20; v. 276; p. 503.

Ek, Arvid, Portland, Me. Paper towel. No. 1,347,020; July 20; v. 276; p. 455.

Electric Vacuum Cleaner Company. (See Kirby, James B., assignor.)

Electrolytic Zinc Company. (See Avery, D., and Williams.)

Electrolytic Zinc Company. (See Stevens, Royale H., assignor.)

Ellis, Amos, Philadelphia, Pa. Shaving-brush case. No. 1,347,263; July 20; v. 276; p. 503.

Emmert, John R., Chicago, Ill. Barber's chair. No. 1,347,264; July 20; v. 276; p. 503.

Engelhard, Frank. (See Engelhard, William A., F., and F. H.)

Engelhard, Frederick H. (See Engelhard, William A., F., and F. H.)

Engelhard, William A., F., and F. H., Springfield, Mass. Float. No. 1,347,217; July 20; v. 276; p. 493.

Espy, Carl. (See Batchelor, Jamie H., assignor.)
Essex Motors. (See Fekete, S. I., and Baits, assignors.)
Estera, Manuel A. (See Bone, Roberto C., assignor.)
Etzel, Frank E., Montclair, N. J. Air-valve for radiators. No. 1,347,216; July 20; v. 276; p. 493.
Evans, Daniel W., Scranton, Pa. Draft-rigging for tractors. No. 1,347,448; July 20; v. 276; p. 539.
Evans, Percy. (See Tonkin, George A., assignor.)
Fassel, Martin J., St. Louis, Mo. Rain-guard for motor-vehicles. No. 1,347,218; July 20; v. 276; p. 493.
Fay, Thomas J., Brooklyn, N. Y., assignor to The Standard Parts Company, Cleveland, Ohio. Shaping and tempering metal. No. 1,346,946; July 20; v. 276; p. 440.
Fekete, Stephen I., and S. G. Baits, assignors to Essex Motors, Detroit, Mich. Gear-engaging mechanism for self-starters. No. 1,347,265; July 20; v. 276; p. 503.
Felsenthal, Gabriel, Chicago, Ill. Powder-receptacle. No. 1,347,149; July 20; v. 276; p. 480.
Ferch, Walter H., Milwaukee, Wis. Traction device for automobiles and the like. No. 1,346,813; July 20; v. 276; p. 414.
Feroldi, Enrico, Turin, Italy. Carbureter. No. 1,347,150; July 20; v. 276; p. 480.
Fette, Charlotte G., Shelton, Conn. Dustless ash-sifter. No. 1,347,151; July 20; v. 276; p. 480.
Field, Thaddeus S., Atlanta, Ga. Horseshoe. No. 1,347,021; July 20; v. 276; p. 455.
Fifield, Albert F., Newark, N. J., assignor to The Singer Manufacturing Company. Thread-severing mechanism for sewing-machines. No. 1,346,814; July 20; v. 276; p. 414.
Fink, Eugene L., Deloit, Iowa. Hen's nest. No. 1,347,266; July 20; v. 276; p. 503.
Finnigan, George P., Richmond, Va. Electropneumatic control. No. 1,346,882; July 20; v. 276; p. 428.
Finsness, Helen. (See Tonstad, J., and Finsness.)
Fischer, Albert T. (See Horr, John V., assignor.)
Fitzgerald, John J., Los Angeles, Calif. Gage device. No. 1,347,022; July 20; v. 276; p. 455.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,347,449; July 20; v. 276; p. 539.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,347,450; July 20; v. 276; p. 539.
Fletcher, Henry J., Brainerd, Minn. Hammer-saw or line-hammer. No. 1,347,365; July 20; v. 276; p. 523.
Flie, Michael F., Mohawk, Ontario, Canada. Combined cradle and bed. No. 1,347,451; July 20; v. 276; p. 540.
Fluke, Floyd L., *et al.* (See Johnson, Albert S., assignor.)
Folger, Harry S., Chicago, Ill. Stamp-mount. No. 1,347,152; July 20; v. 276; p. 480.
Fontaine, Walter R., assignor to Western Vulcanizer Manufactnring Company, Chicago, Ill. Clamp. No. 1,346,947; July 20; v. 276; p. 441.
Foster, Edward E., Beverly, Mass. Cam-path-generating machine. No. 1,347,08b; July 20; v. 276; p. 468.
Foster, Ernest H., Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Superheater. No. 1,347,086; July 20; v. 276; p. 468.
Foundation Oven Corporation. (See Roberts, William E., assignor.)
Franzen, Frank C., Buxton, Iowa. Check-pocket. No. 1,347,452; July 20; v. 276; p. 540.
Fraser, Norman P., Detroit, Mich. Lock. No. 1,346,815; July 20; v. 276; p. 415.
Frederick, Salvador H., St. Paul, Minn. Stove attachment. No. 1,346,883; July 20; v. 276; p. 428.
Freed, George F., Ben Avon, and J. R. Spencer, assignors to Pittsburgh Gage & Supply Company, Pittsburgh, Pa. Safety-lock for swing-wringers. No. 1,346,816; July 20; v. 276; p. 415.
Freedman, Louis A., New York, N. Y. Battery-filling machine. No. 1,346,948; July 20; v. 276; p. 441.
Fronek, Bohumil, Chicago, Ill. Hat-fastener. No. 1,347,267; July 20; v. 276; p. 504.
Frost, Clinton E., East Cleveland, assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. No. 1,347,153; July 20; v. 276; p. 481.
Fryer, Harry. (See Bartlett, O., and Fryer.)
Gahl, Rudolf, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation ore-separator and process. No. 1,346,817; July 20; v. 276; p. 415.
Gahl, Rudolf, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation ore-separator. No. 1,346,818; July 20; v. 276; p. 415.
Gahl, Rudolf, Denver, Colo., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation process. No. 1,346,819; July 20; v. 276; p. 415.
Galbreath, John T., Cynthiana, Ky. Spark-plug-cleaning device. No. 1,347,366; July 20; v. 276; p. 523.
Gamewell Fire-Alarm Telegraph Company, The. (See Suren, Nathan R., assignor.)
Garison, Robert J., Hastings, Okla. Pan-lifter. No. 1,346,820; July 20; v. 276; p. 415.
Garner, Karl, St. Marys, Pa. Folding scaffold-bracket. No. 1,347,453; July 20; v. 276; p. 540.
Gee, Edward, and R. L. Burns, Denver, Colo. Adjustable batten-clamp. No. 1,347,023; July 20; v. 276; p. 456.
Geissberger, Emil C., Zurich, Switzerland. Spring suspension for vehicles. No. 1,347,154; July 20; v. 276; p. 481.
General Electric Company. (See Case, Frank E., assignor.)
General Electric Company. (See Dickinson, Edgar D., assignor.)
General Electric Company. (See Goldsmith, Alfred N., assignor.)
General Electric Company. (See Hall, Chester I., assignor.)
General Electric Company. (See Jones, Frank E., assignor.)
General Electric Company. (See Macmillan Campbell, assignor.)
General Electric Company. (See Moore, Roy W., assignor.)
General Electric Company. (See Stone, Fred L., assignor.)
General Electric Company. (See Taylor, William G., assignor.)
General Electric Company. (See Upp, John W., assignor.)
Gerbaud, Charles E., Paris, France. Sparking plug for internal-combustion engines and manufacturing same. No. 1,347,367; July 20; v. 276; p. 523.
Gernandt, Waldo G., Chicago, Ill. Compound quick-combustion engine. No. 1,347,087; July 20; v. 276; p. 468.
Gibson, Harlon O., and E. F. Ames, Wayland, N. Y.; said Gibson assignor to said Ames. Holder for motor-vehicles. No. 1,346,949; July 20; v. 276; p. 441.
Gibson, Walter I., assignor of one-third to E. R. Greenlaw, and one-third to F. M. Mills, New Orleans, La. Sectional radiator. No. 1,347,219; July 20; v. 276; p. 493.
Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
Gilmore, William E. (See Robbins, L. S., and Gilmore.)
Girardeau, Emile F., Paris, France. Dynamo for lighting and motor ignition. No. 1,346,821; July 20; v. 276; p. 415.
Girtanner, Alexander, New York, N. Y. Ash-conveyer. No. 1,346,950; July 20; v. 276; p. 441.
Glaeser, Walter, Fullerton, Pa., assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Apparatus for treating silicates. No. 1,347,024; July 20; v. 276; p. 456.
Glenn, Thomas F., Ardmore, Pa., assignor to The S. S. White Dental Manufacturing Company. Mold for forming artificial teeth. No. 1,346,951; July 20; v. 276; p. 441.
Gloppe, Jean M., Lyon, France. Desk. No. 1,347,025; July 20; v. 276; p. 456.
Godfrey, Harold H., Los Angeles, Calif. Apparatus for extracting metal from ores and the like. No. 1,347,026; July 20; v. 276; p. 456.
Godley, Charles E., assignor to Edmunds and Jones Corporation, Detroit, Mich. Parabolic sectional reflector. No. 1,347,268; July 20; v. 276; p. 504.
Goldsmith, Alfred N., New York, N. Y., assignor to General Electric Company. Radiosignaling system. No. 1,347,328; July 20; v. 276; p. 516.
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodwirth, Emil, St. Louis, Mo. Writing and engrossing ink. No. 1,347,454; July 20; v. 276; p. 540.
Goreau, Nelson G., New Orleans, La. Water-heater. No. 1,346,952; July 20; v. 276; p. 442.
Gorsuch, H. A., *et al.* (See Johnson, Albert S., assignor.)
Gould, Edward R., New York, N. Y. Doll. No. 1,346,953; July 20; v. 276; p. 442.
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Gray, Charles F., Sierra Madre, Calif., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,346,884; July 20; v. 276; p. 428.
Gray & Davis. (See Moses, William B., assignor.)
Greble, Florence C., New York, N. Y. Mailing-frame. No. 1,347,269; July 20; v. 276; p. 504.
Green, Charles E., St. Augustine, Fla. Oil-burner. No. 1,347,458; July 20; v. 276; p. 541.
Green, Frederick M., and S. D. Heron, assignors to Sidderley-Deasy Motor Car Company Limited, Parkside, Coventry, England. Gearing for connecting coaxial shafts. No. 1,347,220; July 20; v. 276; p. 493.
Green, Isaac, Manchester, N. H. Crochet-needle. No. 1,347,027; July 20; v. 276; p. 456.
Green, Michael B., Memphis, Tenn. Compression-box for oil-presses. No. 1,347,455; July 20; v. 276; p. 540.
Green, Michael B., Memphis, Tenn. Compression-box for oil-presses. No. 1,347,456; July 20; v. 276; p. 540.
Greenawalt, William E., Denver, Colo. Electrolytic apparatus. No. 1,347,088; July 20; v. 276; p. 468.
Greenawalt, William E., Denver, Colo. Apparatus for treating liquids with gases. No. 1,347,089; July 20; v. 276; p. 469.
Greenlaw, Edward R., *et al.* (See Gibson, Walter I., assignor.)
Griffey, Andrew M., Meeker, Okla. Antisetting device. No. 1,346,954; July 20; v. 276; p. 442.
Griffin, Francis B. (See Darby, John, assignor.)
Gstalder, Paul A., Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining. No. 1,347,028; July 20; v. 276; p. 457.
Gstalder, Paul A., Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 1,347,029; July 20; v. 276; p. 457.
Gstalder, Paul A., Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 1,347,030; July 20; v. 276; p. 457.

Gustafson, August J., Maywood, Ill. Furniture. No. 1,346,955; July 20; v. 276; p. 442.
Gutzwiller, Herbert, Schonenwerd, Switzerland, assignor of one-half to T. Buess, Liestal, Switzerland. Feeding polyphase-current circuits with monophase current. No. 1,347,457; July 20; v. 276; p. 541.
Guy, Henry L. (See Baumann, K., Guy, and Winning.)
Guy, Henry L., Manchester, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Attachment of moving blades of elastic-fluid turbines. No. 1,347,031; July 20; v. 276; p. 457.
Gyton, Thomas H., Collingwood, Victoria, Australia. Non-skid protector. No. 1,347,368; July 20; v. 276; p. 523.
Haefliger, Herman, North Platte, Nebr. Balance-pivot straightener. No. 1,347,155; July 20; v. 276; p. 481.
Hahn, George F., New York, N. Y. Pen and pencil clip. No. 1,347,090; July 20; v. 276; p. 469.
Hain, Albert J., Lakewood, Ohio. Preparing printing-plates. No. 1,346,885; July 20; v. 276; p. 428.
Hale, Perry T. W., Portland, assignor to M. C. Hillery, Hartford, Conn. Toy aeroplane. No. 1,346,956; July 20; v. 276; p. 442.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Thermostatic regulator. No. 1,347,329; July 20; v. 276; p. 516.
Hall, Joseph M. (See Sherman, F. A., and Hall.)
Hallam, Frank. (See Hanstine, Harry S., assignor.)
Halverson, Lars B., Sioux Falls, S. D. Posting-tray. No. 1,346,886; July 20; v. 276; p. 429.
Hamilton, George M. (See Tygard, H. L., and Hamilton.)
Hamlin, John H., New York, N. Y. Vegetable-peeler. No. 1,347,091; July 20; v. 276; p. 469.
Hammond, Elmer H. (See Hathaway, L. N., Twombly, and Hammond.)
Hammond, James. (See Hammond, Winslow A. and J.)
Hammond, John H., Jr., Gloucester, Mass. Emergency launching system for torpedoes. No. 1,347,092; July 20; v. 276; p. 469.
Hammond, Metta, administratrix. (See Hammond, Winslow A., and J.)
Hammond, Winslow A., deceased, and J. Hammond, Randolph, Nebr.; M. Hammond, administratrix. Film-developing device. No. 1,347,032; July 20; v. 276; p. 457.
Hamrick, Martin D., assignor of one-half to A. E. Young, Chehalis, Wash. Draft-hook. No. 1,347,369; July 20; v. 276; p. 524.
Hanauer, Michael, Tolland, Mass. Sap-spout and cover. No. 1,347,270; July 20; v. 276; p. 504.
Hancock, Frank R., and R. F. Hoffman, Kenosha, Wis. Steering-wheel. No. 1,347,156; July 20; v. 276; p. 481.
Hand, Edgar K., assignor of one-third to C. T. Brown, Chicago, Ill. Installing water-front walls. No. 1,347,459; July 20; v. 276; p. 541.
Hansen, Albert E., Elkhart, Ind. Expander. No. 1,346,957; July 20; v. 276; p. 442.
Hanson, Bengt M. W., Hartford, Conn. Metal-working machine. No. 1,346,822; July 20; v. 276; p. 416.
Hanson, Earl C., Washington, D. C. Apparatus on aircraft for receiving and delivering mail and merchandise. No. 1,347,157; July 20; v. 276; p. 481.
Hanstine, Harry S., Ambridge, assignor of one-half to F. Hallam, Fair Oaks, Pa. Molding apparatus. No. 1,347,093; July 20; v. 276; p. 469.
Harland, Silas E., Ocean View, Va. Internal-combustion engine. No. 1,347,094; July 20; v. 276; p. 469.
Harrison, Arthur B., New York, N. Y. Waterproof fabric and producing same. No. 1,347,095; July 20; v. 276; p. 469.
Hardware Specialty Co. (See Abbott, Percy C., assignor.)
Hart, Stanley D., *et al.* (See Bridges, William H., assignor.)
Hartman, William L., Palmyra, Ind. Table attachment for bedsteads. No. 1,347,271; July 20; v. 276; p. 505.
Hasselbaum, Oscar H., Fresno, Calif. Timer for Internal-combustion engines. No. 1,347,370; July 20; v. 276; p. 524.
Hathaway, Louis N., M. W. Twombly, and E. H. Hammond, Laconia, N. H. Cutter-bar. No. 1,347,330; July 20; v. 276; p. 516.
Hatten, William T., Hay Creek, Oreg. Ax-handle shield and fastening. No. 1,347,371; July 20; v. 276; p. 524.
Haverty, John M., trustee. (See Brigel, Samuel G., assignor.)
Hawvichorst, Henry J., Tulare, Calif. Pneumatic pump. No. 1,347,033; July 20; v. 276; p. 457.
Hazen, Clarence A., Talent, Oreg. Dustpan. No. 1,346,958; July 20; v. 276; p. 443.
Headley, John W., Long Beach, Calif. Resilient wheel. No. 1,347,034; July 20; v. 276; p. 458.
Heald, George W., Chicago, Ill. Valve. No. 1,346,887; July 20; v. 276; p. 429.
Heany, John A., Flint, Mich., assignor, by mesne assignments, to Industrial Research Corporation. Means for supplying lighting and ignition current for automotive vehicles. No. 1,347,460; July 20; v. 276; p. 541.
Heatley, Thomas E. (See Jones, Joseph H., assignor.)
Hebert, Ignatieus A., assignor to The Hebert Life Saving Device Co., Inc., New Orleans, La. Life-saving device. No. 1,347,372; July 20; v. 276; p. 524.
Hebert Life Saving Device Co., The. (See Hebert, Ignatieus A., assignor.)
Hecht, Joseph, Brooklyn, N. Y. Rotatable wicket. No. 1,346,823; July 20; v. 276; p. 416.
Heck, Charles M., Raleigh, N. C. Automatic phonograph. No. 1,347,096; July 20; v. 276; p. 470.
Helpling, James E., Los Angeles, Calif. Windshields for side cars of motorcycles. No. 1,347,461; July 20; v. 276; p. 542.
Hendrickson, John H., assignor to The Hendrickson Machine Company, Cleveland, Ohio. Gearing for laundry machinery. No. 1,347,221; July 20; v. 276; p. 494.
Hendrickson Machine Company, The. (See Hendrickson, John H., assignor.)
Hendron, James M., Springfield, Ill. Automatic injector. No. 1,347,035; July 20; v. 276; p. 458.
Henke, Frank R. (See Driggs, G. W., and Henke.)
Henson, John H., Firebaugh, Calif. Knife. No. 1,347,036; July 20; v. 276; p. 458.
Henwood, Abraham, Cynwyd, Pa. Oxidizing ammonia to nitric acid. No. 1,347,158; July 20; v. 276; p. 482.
Henwood, Abraham, Cynwyd, Pa. Oxidizing ammonia to nitric acid. No. 1,347,159; July 20; v. 276; p. 482.
Henwood, Abraham, Cynwyd, Pa. Catalytically combining gases. No. 1,347,160; July 20; v. 276; p. 482.
Hepworth, S. S., Company *et al.* (See Mackintosh, Edward D., assignor.)
Herbert, Pitt H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,347,462; July 20; v. 276; p. 542.
Herd, W. M., *et al.* (See Johnson, Albert S., assignor.)
Heron, Sam D. (See Green, F. M., and Heron.)
Herr, Herbert T., Pittsburgh, Pa. Transmission mechanism. No. 1,346,888; July 20; v. 276; p. 429.
Hess-Bright Manufacturing Company. (See Hottinger, Emil, assignor.)
Hess-Bright Manufacturing Company. (See Sherman, Cortis F., assignor.)
Hicks, John, Calgary, Alberta, Canada. Ore-separator. No. 1,346,824; July 20; v. 276; p. 416.
Hilger, Adam, Limited. (See Twyman, Frank, assignor.)
Hillery, Martin C. (See Hale, Perry T. W., assignor.)
Hilsee, Charles M., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,347,097; July 20; v. 276; p. 470.
Hinckley, Arthur T., Niagara Falls, N. Y., assignor to National Carbon Company, Inc. Refractory composition and making same. No. 1,346,959; July 20; v. 276; p. 443.
Hoffman, Ronald F. (See Hancock, F. R., and Hoffman.)
Hogg, Leonard J., Philadelphia, Pa. Filing-receptacle. No. 1,347,272; July 20; v. 276; p. 505.
Holsington, William A. J., Dallas, Oreg. Stem-clipping device for fruit and vegetable pickers. No. 1,347,098; July 20; v. 276; p. 470.
Holdsworth, Willie, Providence, R. I. Adjustable saddle for gill-drawing frames. No. 1,347,331; July 20; v. 276; p. 516.
Holland, James H., assignor to Holland Manufacturing Co., St. Louis, Mo. Attachment for soda-fountain faucets. No. 1,347,373; July 20; v. 276; p. 524.
Holland Manufacturing Co. (See Holland, James H., assignor.)
Holliday, Jeremiah R., Winnsboro, S. C. Body-brace. No. 1,347,037; July 20; v. 276; p. 459.
Hollings, Ernest, Cleveland, Ohio. Nut-machine. No. 1,346,889; July 20; v. 276; p. 429.
Holtzman, Abraham M., Brooklyn, N. Y. Sole-stitching machine. No. 1,347,038; July 20; v. 276; p. 459.
Hood, James J., assignor of twenty-five per cent. to S. A. Saxon, Ponder, Ga. Circuit-closer for locks. No. 1,347,039; July 20; v. 276; p. 459.
Hooper, Harris G., Los Angeles, Calif. Aeroplane construction. No. 1,347,040; July 20; v. 276; p. 459.
Hoover, Ralph W., Armstrongs Mills, Ohio. Fishing-tool for pumps. No. 1,347,041; July 20; v. 276; p. 459.
Hopkinson, Austin, Guide Bridge, England. Method of and apparatus for driving tunnels for military or other purposes in earth or soft rock. No. 1,347,332; July 20; v. 276; p. 516.
Hornung, Anton N., Los Angeles, Calif. Refrigerator-counter display-case. No. 1,347,161; July 20; v. 276; p. 482.
Horr, John V., East Cleveland, assignor to A. T. Fischer, Cleveland, Ohio. Display-carton. No. 1,347,273; July 20; v. 276; p. 505.
Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-tinning machine. No. 1,346,825; July 20; v. 276; p. 416.
Hottinger, Emil, assignor to Hess-Bright Manufacturing Company, Philadelphia, Pa. Expanding arbor. No. 1,346,890; July 20; v. 276; p. 429.
Hougland, Albert C., St. Paul, Minn. Milking-machine. No. 1,347,162; July 20; v. 276; p. 482.
Houston, Constance M. M., Papanui, Christchurch, New Zealand. Typewriting-machine. No. 1,347,333; July 20; v. 276; p. 517.
Howe, James M., Cleveland Heights, assignor to The S. W. H. Engineering Company, Cleveland, Ohio. Tractor. No. 1,347,163; July 20; v. 276; p. 483.
Howell, Squire S., Des Moines, Iowa. Signal device for automobiles. No. 1,347,274; July 20; v. 276; p. 505.
Howes, Willis E., assignor of one-fourth to B. & D. Manufacturing Company, Rock Island, Ill., and one-fourth to H. E. Winters, Davenport, Iowa. Hobby-cycle. No. 1,347,099; July 20; v. 276; p. 470.
Hruza, William. (See Bennet, G. Henry, assignor.)

Hubner, Anthony, Bloomingdale, N. J., assignor of one-half to L. J. Lichtenberger, New York, N. Y. Paper-toy amusement device. No. 1,347,042; July 20; v. 276; p. 460.

Hudson, Albert E., Calgary, Alberta, Canada. Spark-arrester. No. 1,347,374; July 20; v. 276; p. 525.

Huffman, John W., Marion, Mich. Dumping-bed for wagons. No. 1,347,375; July 20; v. 276; p. 525.

Hufschmidt, Louis A., San Francisco, Calif. Index and memorandum pad holder. No. 1,347,222; July 20; v. 276; p. 494.

Huggins, Ulysses S., Chicago, Ill. Game. No. 1,346,826; July 20; v. 276; p. 417.

Huise, Horace D. (See Schaefer, P. C., Huise, and Livingstone.)

Humphrey, Harland. (See Klein, P., and Humphrey.)

Hurd, Benjamin W., San Francisco, Calif. Gear-pump. No. 1,346,960; July 20; v. 276; p. 443.

Husted, Lemuel J. (See Mulvany, Alva B., assignor.)

Hutchinson Egg-Case Filler Co. (See Doyle, Clarence E., assignor.)

Huwyler, Lyberat, Goldau, Switzerland. Railway-car. No. 1,346,891; July 20; v. 276; p. 429.

Iden, Eugene W., Cleveland, Ohio. Dental instrument. No. 1,347,275; July 20; v. 276; p. 505.

Industrial Research Corporation. (See Heany, John A., assignor.)

Ingersoll-Rand Company. (See Smith, William A., assignor.)

International Corset Company. (See Schopbach, Charles H., assignor.)

International Moving Picture and Film Company. (See Killiman, Thomas A., assignor.)

Interwoven Mills, The. (See Smith, William E., assignor.)

Jachimowicz, Szymon, Geneva, Switzerland. Turret-lathe. No. 1,346,892; July 20; v. 276; p. 430.

Jackson, Corwill, Kalamazoo, Mich. Grinder. No. 1,346,893; July 20; v. 276; p. 430.

Jackson, John L., River Forest, Ill. Indicator for pneumatic tires. No. 1,346,961; July 20; v. 276; p. 443.

Jacob, Thomas H., Wausau, Wis. Front-axle-radius-rod structure. No. 1,347,286; July 20; v. 276; p. 507.

Jacobs, Frederick, Cincinnati, Ohio. Husking, snapping, and shocking device. No. 1,346,894; July 20; v. 276; p. 430.

Jacobson, John, Rockford, Ill. Car-replacer. No. 1,346,962; July 20; v. 276; p. 443.

Jameson, Winthrop S., Belmont, Mass. Automobile-lock. No. 1,347,463; July 20; v. 276; p. 542.

Janik, Johan, Johnstown, Pa. Rail-joint. No. 1,347,370; July 20; v. 276; p. 525.

Jasper, Virgil G., Elyria, Ohio. Penwiper. No. 1,347,164; July 20; v. 276; p. 483.

Jeffries, Zay, East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion motor. No. 1,347,479; July 20; v. 276; p. 545.

Jeffries, Zay, East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion motor. No. 1,347,480; July 20; v. 276; p. 545.

Jeffries, Zay, East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Making castings. No. 1,347,481; July 20; v. 276; p. 545.

Jenkins, Evan H., Abertillery, England. Rear-springing device for motorcycles or tricars. No. 1,347,100; July 20; v. 276; p. 470.

Jenner, James W., Louisville, Ky. Engraving-plate holder. No. 1,347,101; July 20; v. 276; p. 471.

Jennings, David J., Cleveland, Ohio. Device for making paper receptacles. No. 1,346,827; July 20; v. 276; p. 417.

Jennings, Morris W., *et al.* (See Bridges, William H., assignor.)

Jensen, Peter, Wayne, Alberta, Canada. Reversing-fan. No. 1,347,377; July 20; v. 276; p. 525.

Johnson, Albert S., Irwin, Mo., assignor of four-fifths to J. Peterson, J. M. Conner, W. S. Grant, F. L. Fluke, H. A. Gorsuch, J. T. Alsup, W. M. Herd, and F. R. Burritt, Delta county, Colo. Hen's nest. No. 1,347,223; July 20; v. 276; p. 494.

Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)

Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Automobile-spare-tire lock. No. 1,346,964; July 20; v. 276; p. 444.

Johnson, Edmiston P., Decatur, Ill. Direction-indicator for bicycles. No. 1,347,334; July 20; v. 276; p. 517.

Johnson, Gustaf O., Elkhart, Ind. Infant's carriage. No. 1,346,963; July 20; v. 276; p. 444.

Johnson, Royal K., assignor to The Minerva Engine Company, Cleveland, Ohio. Internal-combustion engine. No. 1,347,276; July 20; v. 276; p. 506.

Johnson, Stephen C., assignor of one-half to L. L. Utter, Detroit, Mich. Switch-box support. No. 1,346,895; July 20; v. 276; p. 430.

Johnson, Thure A., Lynn, Mass. Holder for shelves. No. 1,347,464; July 20; v. 276; p. 542.

Johnson, Tomlinson F., Jr., Atlanta, Ga. Spark-gap indicator. No. 1,347,378; July 20; v. 276; p. 525.

Johnston, Genevieve. (See Johnston, Horace G., assignor.)

Johnston, Horace G., assignor to G. Johnston, Corsicana, Tex. Attachment for rotaries. No. 1,347,379; July 20; v. 276; p. 525.

Jonca, Edwin, Cleveland, Ohio. Uncoupling device for car couplings. No. 1,347,380; July 20; v. 276; p. 526.

Jones, Frank E., Sebring, Ohio, assignor to General Electric Company. Metal reflector and making same. No. 1,347,335; July 20; v. 276; p. 517.

Jones, John B., Brookville, Pa. Rifle cleaning rod. No. 1,347,387; July 20; v. 276; p. 526.

Jones, Joseph H., assignor of one-half to T. E. Heatley, Winthrop, Mass. Fly-frame. No. 1,347,165; July 20; v. 276; p. 483.

Joyce-Cridland Company, The. (See Ripsch, C. W., and Dawley, assignors.)

Justice, Homer H., and E. J. O'Brien, Pasadena, Calif. Cooling system for gas-engines. No. 1,347,043; July 20; v. 276; p. 460.

Juszczak, Frank, Hagewisch, Ill. Combination-bed. No. 1,346,896; July 20; v. 276; p. 430.

Kako, Shintaro, Los Angeles, Calif. Electric steam-iron. No. 1,347,224; July 20; v. 276; p. 494.

Kanegafuchi Boseki Kabuskiki Kwaisha. (See Kido, Suekichi, assignor.)

Karr, John C., Chicago, Ill. Road-drag. No. 1,347,336; July 20; v. 276; p. 517.

Karro, William W., Great Neck, N. Y. Cane. No. 1,347,382; July 20; v. 276; p. 526.

Kebler, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Co., Resistance device. No. 1,347,102; July 20; v. 276; p. 471.

Kehn, Edward A., Denver, Colo. Railway-rail fastener. No. 1,346,965; July 20; v. 276; p. 444.

Keller, Clarence D., Los Angeles, Calif. Windshield. (Reissue.) No. 14,919; July 20; v. 276; p. 547.

Kempf, Roman M., Columbus, Ohio. Shoe-lace hanger. No. 1,347,277; July 20; v. 276; p. 506.

Kendt, William F., Buffalo, N. Y. Funnel. No. 1,347,383; July 20; v. 276; p. 526.

Kicklighter, Charles H., Macon, Ga. Electrically welding metal plates. No. 1,347,278; July 20; v. 276; p. 506.

Kido, Suekichi, Nishisuma, Hyogo-Ken, assignor to Kanegafuchi Boseki Kabuskiki Kwaisha, Minamikatsushika-Gun, Tokyo-Fu, Japan. Apparatus for mixing cotton. No. 1,346,828; July 20; v. 276; p. 417.

Killiman, Thomas A., assignor to International Moving Picture and Film Company, Nashville, Tenn. Panoramic motion-picture apparatus. No. 1,347,103; July 20; v. 276; p. 471.

Kindervater, Julius, Closter, N. J. Connecting-rod. No. 1,347,104; July 20; v. 276; p. 471.

King, Clifford G., Providence, R. I. Collapsible tube. No. 1,346,897; July 20; v. 276; p. 430.

Kingsbury, John M., New York, N. Y. Fluid-flow-control mechanism. No. 1,346,898; July 20; v. 276; p. 431.

Kingswell, Percy N., trustee. (See Roberts, Richard H., assignor.)

Kinnard, Robert M., Trenton, N. J. Toy. No. 1,347,384; July 20; v. 276; p. 526.

Kirby, James B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,347,166; July 20; v. 276; p. 483.

Kirby, James B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,347,167; July 20; v. 276; p. 483.

Kirino, Charles, Ogden, Utah. Machine for peeling tomatoes. No. 1,347,385; July 20; v. 276; p. 527.

Klein, Philip, and H. Humphrey, Mansfield, Ohio. Detachable spring-hinge. No. 1,347,386; July 20; v. 276; p. 527.

Kline, George L., St. Louis, Mo. Auto-chassis. No. 1,347,337; July 20; v. 296; p. 517.

Knotts, Thomas S., Little Rock, Ark. Convertible hat. No. 1,347,338; July 20; v. 276; p. 518.

Koivisto, Kustaa, Portland, Oreg. Paint composition. No. 1,347,387; July 20; v. 276; p. 527.

König, Albert, assignor to firm of Carl Zeiss, Jena, Germany. Adjustment of uniocular telemeters. No. 1,347,044; July 20; v. 276; p. 460.

Kovács, Louis. (See Sztanyi, J., and Kovács.)

Kraus, David, New York, N. Y. Motor-vehicle. No. 1,347,279; July 20; v. 276; p. 506.

Krieger, John T., assignor to Lincoln Steel and Forge Company, St. Louis, Mo. Car-axle mounting. No. 1,347,280; July 20; v. 276; p. 506.

Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Desk-pad and calendar-holder. No. 1,347,225; July 20; v. 276; p. 494.

Kuntz, Samuel L., Fort Wayne, Ind. Anchor-rope fastener. No. 1,347,339; July 20; v. 276; p. 518.

Kuznik, August, assignor of three-fourths to A. Lillie, Cleveland, Ohio. Making molds. No. 1,347,168; July 20; v. 276; p. 483.

La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Machine for making boxes. No. 1,346,899; July 20; v. 276; p. 431.

Lacerda, Harry A., Schenectady, assignor of one-half to R. W. Benson, New York, N. Y. Lubricating-packing. No. 1,347,388; July 20; v. 276; p. 527.

Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,346,829; July 20; v. 276; p. 417.

Lambert, Alphonse, Rome, Italy. Composition for hardening and preserving impregnable soft woods. No. 1,346,830; July 20; v. 276; p. 417.

Lane, George A., Chicago, Ill., assignor to American Meter Company, Incorporated, New York, N. Y. Gas-meter. No. 1,347,340; July 20; v. 276; p. 518.

Lane, Walter, Holland, Mich. Pneumatic and connection for pneumatic piano-players. No. 1,346,900; July 20; v. 276; p. 431.

Lapeer Tractor Truck Company. (See Winn, Sidney B., assignor.)

Larsen, Lee, Tampico, Mexico. Antifriction-buffer. No. 1,347,389; July 20; v. 276; p. 527.

Lavercombe, James. (See Rowe, C. B., and Lavercombe.)

Leach, William L., Brownwood, Tex. Detachable fastener for cylindrical screens. No. 1,347,341; July 20; v. 276; p. 518.

Lehmann, Ferdinand A., Omaha, Nebr. Ladder attachment. No. 1,346,831; July 20; v. 276; p. 417.

Leith, Alexander B., Chicago, Ill. Perambulator. No. 1,347,160; July 20; v. 276; p. 484.

Le Mesurier, Louis J., assignor of one-half to Sir W. G. Armstrong Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Airplane-launching apparatus. No. 1,347,105; July 20; v. 276; p. 471.

Lewis, Jesse D., assignor to S. E. Allen, H. D. Rives, and F. Carroll, Los Angeles, Calif. Measure. No. 1,347,465; July 20; v. 276; p. 542.

Lewis, Leo R., Somerville, Mass. Loose-leaf binder. No. 1,347,342; July 20; v. 276; p. 518.

Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,347,045; July 20; v. 276; p. 460.

Liberty, Salli R., Pawtucket, R. I. Loom-shuttle. No. 1,347,170; July 20; v. 276; p. 484.

Lichtenberger, Louis J. (See Hubner, Anthony, assignor.)

Likly, Henry, Company. (See Likly, Henry K., assignor.)

Likly, Henry K., assignor to Henry Likly Company, Rochester, N. Y. Self-closing trunk-bag. No. 1,347,390; July 20; v. 276; p. 527.

Lillie, Andrew. (See Kuznik, August, assignor.)

Lincoln Steel and Forge Company. (See Krieger, John T., assignor.)

Lindahl, Anders, Hässleholm, Sweden. Sealing apparatus. No. 1,346,902; July 20; v. 276; p. 431.

Lindsay, George W., assignor to Denver Fire Clay Company, Denver, Colo. Crane-hinge for muffle-furnace doors. No. 1,346,903; July 20; v. 276; p. 432.

Lindsay, Hamilton, Willoughby, Ohio. Locomotive-stoker. No. 1,347,281; July 20; v. 276; p. 506.

Lipner, Abe, Indiana Harbor, Ind. Tailor's implement. No. 1,346,832; July 20; v. 276; p. 418.

Livingstone, George M. (See Schaefer, P. C., Huise, and Livingstone.)

Ljungström, Birger, Stockholm, Sweden, assignor to Aktiebolaget Ljungströms Angturbin. Means for securing turbine-motors to their shafts. No. 1,347,343; July 20; v. 276; p. 519.

Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Means for securing turbine-rotors to their shafts. No. 1,347,344; July 20; v. 276; p. 519.

Lofgren, John, assignor to Ralco Manufacturing Co., Chicago, Ill. Combination safety-switch and receptacle. No. 1,347,345; July 20; v. 276; p. 519.

Londt, David F., Columbia City, Ind. Safety tractor-hitch. No. 1,347,346; July 20; v. 276; p. 519.

Loomis Beardsley Mfg. Co., The. (See Beardsley, Edson L., assignor.)

Lord, Joseph S. and S. S., Manchester, England. Machine for treating yarn in hank form. No. 1,346,833; July 20; v. 276; p. 418.

Lord, Sam S. (See Lord, Joseph S. and S. S.)

Lorking, Francis H., Wayville, South Australia, Australia. Adjustable electric contact. No. 1,347,391; July 20; v. 276; p. 528.

Lozzitto, Rocco, and L. Moss, New York, N. Y. Bottle-holder. No. 1,346,901; July 20; v. 276; p. 431.

Luttinger, William G., Jerome, Ariz. Burner. No. 1,346,904; July 20; v. 276; p. 432.

Lyon, Harry A., Kansas City, Mo., assignor of one-half to J. L. Orr, Springfield, Ohio. Automatic water-feed for ensilage apparatus. No. 1,347,392; July 20; v. 276; p. 528.

McAllister, Lawrence E., Bellaire, Ohio. Method and apparatus for determination of moisture in solid materials. No. 1,347,106; July 20; v. 276; p. 472.

McCann, James. (See McCann, Joseph L., J. P., and J.)

McCann, John P. (See McCann, Joseph L., J. P., and J.)

McCann, Joseph L., J. P., and J., Bridgeport, Conn. Collapsible tent-frame. No. 1,347,107; July 20; v. 276; p. 472.

McCasland, Charles O., St. Louis, Mo. Liquid-dispensing machine. No. 1,347,108; July 20; v. 276; p. 472.

McCurdy, Arthur W., Victoria, British Columbia, Canada. Film-cartridge. No. 1,347,109; July 20; v. 276; p. 472.

McCreary, Alfred W., Mount Pleasant, Pa. Combination screen-bed. No. 1,347,393; July 20; v. 276; p. 528.

McDonald, Arthur E., San Francisco, Calif. Gear-shift lock. No. 1,347,110; July 20; v. 276; p. 472.

McDonald, John, West Haven, Conn. Wire-twisting tool. No. 1,347,282; July 20; v. 276; p. 507.

McDonough, Martin T., Wheeling, W. Va. Miner's cap. No. 1,347,046; July 20; v. 276; p. 461.

McGoldrick, Timothy, Lincoln, N. H. Coal-screen and ash-sifter. No. 1,346,905; July 20; v. 276; p. 432.

McManus, Charles E., New York, N. Y. Resilient rod. No. 1,346,834; July 20; v. 276; p. 418.

McNab, Norman S., Melbourne, Victoria, Australia. Mode of and means for grading fruit and other articles. No. 1,346,835; July 20; v. 276; p. 418.

McQuitty, Robert A., London, England. Manufacturing sheets of edible gelatin. No. 1,347,226; July 20; v. 276; p. 495.

MacDonald, Creighton S., Attleboro, Mass. Buckle. No. 1,347,171; July 20; v. 276; p. 484.

Mackey, Joseph L., Fowler, Ill. Car-door. No. 1,347,283; July 20; v. 276; p. 507.

Mackintosh, Edith M., *et al.* (See Mackintosh, Edward D., assignor.)

Mackintosh, Edward D., Brooklyn, assignor to S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y. Brake. No. 1,347,347; July 20; v. 276; p. 519.

Macmillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. Thrust-measuring instrument. No. 1,347,348; July 20; v. 276; p. 520.

MacNicoll, Donald. (See Cockburn, D., and MacNicoll.)

Magnetic Signal Company. (See Crenshaw, Loren O., assignor.)

Malcolm, Thomas, Hartford, Conn. Door-frame and similar structure. No. 1,347,172; July 20; v. 276; p. 484.

Mancini, Amedeo A., Brooklyn, N. Y. Time-lock. No. 1,347,047; July 20; v. 276; p. 461.

Mann, Aaron L., Grand Rapids, Mich. Flatiron-holder. No. 1,347,123; July 20; v. 276; p. 475.

Mardaus, Albert H., Minneapolis, Minn. Door stop and holder. No. 1,347,048; July 20; v. 276; p. 461.

Markin, Sidney J. (See Wade, J., Markin, and Du Prey.)

Markkula, Matt, Fort Bragg, Calif. Stake for cars. No. 1,346,836; July 20; v. 276; p. 418.

Marshall, John F., Ashland, Wis. Rod-joint. No. 1,347,111; July 20; v. 276; p. 473.

Martin, Alton R., Buffalo, N. Y. Headlight. No. 1,347,394; July 20; v. 276; p. 528.

Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Correcting circuits for high-distortion lines. No. 1,347,049; July 20; v. 276; p. 461.

Mathes, Gunther E. H., assignor to Waterbury Clock Co., Waterbury, Conn. Metal clock-dial. No. 1,347,173; July 20; v. 276; p. 484.

Matney, William, Stacy, Va. Car-replacing device. No. 1,347,349; July 20; v. 276; p. 520.

May, George T., Jr. (See Whitelaw, J., and May.)

Merfeld, Leo J., Cascade, Iowa. Kitchen utensil. No. 1,347,112; July 20; v. 276; p. 473.

Merriam, J. G., Company. (See Merriam, Joseph G., assignor.)

Merriam, Joseph G., assignor to J. G. Merriam Company, Meriden, Conn. Turntable for phonographs. No. 1,347,113; July 20; v. 276; p. 473.

Michigan Lubricator Company. (See Corliss, Cullen D., assignor.)

Mitchell, Seward N., Chicago, Ill. Coal-mining machine. No. 1,346,966; July 20; v. 276; p. 444.

Militor Corporation, The. (See Neuteboom, Boudewijn B., assignor.)

Miller, Hiram C., Parkersburg, Pa. Locking device for steering-wheels. No. 1,346,837; July 20; v. 276; p. 419.

Millis, Phineas A., Lewiston, Me. Stop-motion for looms. No. 1,347,395; July 20; v. 276; p. 528.

Mills, Frederick M., *et al.* (See Gibson, Walter I., assignor.)

Mills, William. (See Sleeper, J. J., and Mills.)

Mims, James R., Luray, Va. Silo. No. 1,347,284; July 20; v. 276; p. 507.

Minerva Engine Company, The. (See Johnson, Royal K., assignor.)

Minneapolis Knitting Works. (See Ovenshire, Charles E., assignor.)

Mitchell, Charles L., Randolph, Nebr. Accelerator for automobiles. No. 1,347,227; July 20; v. 276; p. 495.

Mitchell, William G. (See Watson, Alexander, assignor.)

Montelius, Ira H., Portland, Oreg. Draft-hook. No. 1,346,906; July 20; v. 276; p. 432.

Moore, James D., Northwilkesboro, N. C. Grits-separating machine. No. 1,347,114; July 20; v. 276; p. 473.

Moore, Roy W., Schenectady, N. Y., assignor to General Electric Company. Crystal production. No. 1,347,350; July 20; v. 276; p. 520.

Morelli, Joseph, Brooklyn, N. Y. Foldable window-seat. No. 1,347,115; July 20; v. 276; p. 473.

Morgan, John H., Kent, England. Bracket for shelving and the like. No. 1,347,116; July 20; v. 276; p. 473.

Morse, Lawrence H., and J. J. Tracy, Cleveland, Ohio; said Morse assignor to said Tracy. Windshield-cleaner. (Reissue.) No. 14,920; July 20; v. 276; p. 547.

Mosier, Moses, New York, N. Y., and C. Bartels, Hamilton, Ohio, assignors to The Mosier Safe Company, New York, N. Y. Safe. No. 1,347,118; July 20; v. 276; p. 474.

Mosier Safe Company, The. (See Mosier, M., and Bartels, assignors.)

Moses, William B., Brookline, Mass., assignor to Gray & Davis, Incorporated, Cambridge, Mass. Power-transmission mechanism. No. 1,347,117; July 20; v. 276; p. 474.

Moss, Louis. (See Lozzitto, R., and Moss.)

Mueller, Max E., Youngstown, Ohio. Method of and apparatus for recovering ammonium chlorid. No. 1,346,967; July 20; v. 276; p. 445.
Muller, Christian, Fall River, Mass. Piston-grooving tool. No. 1,346,838; July 20; v. 276; p. 419.
Mullin, William A. (See Creason, Frank, assignor.)
Mulvany, Alva B., assignor of one-half to L. J. Husted, Kansas City, Mo. Splint apparatus. No. 1,347,396; July 20; v. 276; p. 529.
Munson, Sweney, Fowler, Colo. Bolt-lock. No. 1,346,907; July 20; v. 276; p. 433.
Murliess, Frederic T., Jr., Hartford, Conn. Locking means for orthodontia appliances. No. 1,347,285; July 20; v. 276; p. 507.
Murphy, Daniel R., Uniontown, Pa. Valve. No. 1,346,968; July 20; v. 276; p. 445.
Murphy, Harold T., Springfield, Mass. Freight-car. No. 1,347,174; Jan 20; v. 276; p. 484.
Murphy, Mary C., Haverhill, Mass. Garment and cutting same. No. 1,347,050; July 20; v. 276; p. 461.
Murray, Angus and A. R., Glasgow, Scotland. Packing device for pistons, rams, rods, and the like. No. 1,347,351; July 20; v. 276; p. 520.
Murray, Angus R. (See Murray, Angus and A. R.)
National Carbon Company. (See Hinckley, Arthur T., assignor.)
Ness, William, Carryville, Wis. Folding box. No. 1,346,839; July 20; v. 276; p. 419.
Neuteboom, Boudewijn B., Detroit, Mich., assignor to The Militor Corporation, New York, N. Y. Tank suspension for motor-vehicles. No. 1,347,051; July 20; v. 276; p. 461.
Newhouse, Frank, Denver, Colo. Advertising-frame. No. 1,346,969; July 20; v. 276; p. 445.
Newman, George R. J., Cherrydale, Va. Animal-cage. No. 1,347,397; July 20; v. 276; p. 529.
Nicholls, Albert E., Wilson Creek, Wash. Oil-feeder. No. 1,346,840; July 20; v. 276; p. 419.
Nighbor, Nellie. (See Wietecha, Joseph, assignor.)
Nyhus, Adolph, La Crosse, Wis. Cotter-pin extractor. No. 1,347,287; July 20; v. 276; p. 507.
O'Brien, Edmund J. (See Justice, H. H., and O'Brien.)
Ohio Varnish Company, The. (See Gstalder, Paul A., assignor.)
Ohmer, John F. and J. F., Jr., assignors to Ohmer Register Company, Dayton, Ohio. Ticket-issuing device. No. 1,346,970; July 20; v. 276; p. 445.
Ohmer Register Company. (See Ohmer, John F. and J. F., Jr., assignors.)
O'Keefe, William M., Birmingham, England. Foundry molding-machine. No. 1,347,119; July 20; v. 276; p. 474.
Okun, Morris B., assignor to The Seng Company, Chicago, Ill. Bed-rail fastener. No. 1,346,908; July 20; v. 276; p. 433.
Olevin, Adolph, Detroit, Mich. Fruit and vegetable peeling attachment. No. 1,347,288; July 20; v. 276; p. 508.
O'Neill, Bryan J., Peoria, Ill. Car-brake. No. 1,346,971; July 20; v. 276; p. 445.
Onufryk, Andrew, Rochester, N. Y. Dining-cutlery holder. No. 1,346,909; July 20; v. 276; p. 433.
O'Rourke, Frank J., New York, N. Y. Douche-can. No. 1,347,398; July 20; v. 276; p. 529.
Orr, John L. (See Lyon, Harry A., assignor.)
Orr, William V., Cleveland, Ohio. Suction-sweeper. No. 1,346,972; July 20; v. 276; p. 446.
Osbourn, Millard P., Philadelphia, Pa. Fluidal apparatus. No. 1,346,910; July 20; v. 276; p. 433.
Ost, Frederick A., Minneapolis, Minn. Carbureter. No. 1,347,052; July 20; v. 276; p. 462.
Ouellette, Jean B., New Bedford, Mass. Loom attachment. No. 1,347,399; July 20; v. 276; p. 529.
Outlook Company, The. (See Beitman, Albert B., assignor.)
Ovenshire, Charles E., assignor to Minneapolis Knitting Works, Minneapolis, Minn. Child's undergarment. No. 1,347,400; July 20; v. 276; p. 529.
Owen, Albert J., *et al.* (See Crick, Arthur, assignor.)
Owen, Ole A., New York, N. Y. Motion-picture film. No. 1,347,053; July 20; v. 276; p. 462.
Owens, Marshall M. (See Shearer, Edward J., and Owens.)
Pabich, John, Mount Carmel, Pa. Ship-protector. No. 1,347,120; July 20; v. 276; p. 474.
Padden, Patrick W., Maumee, Ohio. Swing. No. 1,346,973; July 20; v. 276; p. 446.
Padden, Robert W., Kansas City, Mo. Shoe-heel. No. 1,346,841; July 20; v. 276; p. 419.
Paramount Rubber Consolidated, Inc. (See Roberts, Fred T., assignor.)
Parent, Arthur, Millers Falls, Mass. Button-clipper. No. 1,347,289; July 20; v. 276; p. 508.
Parker, Riley H. (See Tzibides, J. N., and Parker.)
Parramore, Reddin W., Somerville, N. J. Composition for artificially inducing mold action in soils. No. 1,347,401; July 20; v. 276; p. 530.
Paxson, John W., Philadelphia, Pa. Automobile-jack. No. 1,347,228; July 20; v. 276; p. 495.
Paxton, Benjamin F., St. Paul, Minn. Stump-burner. No. 1,347,054; July 20; v. 276; p. 462.
Penfield, Raymond C. (See Brown, Davis, assignor.)
Perkins Electric Switch Manufacturing Company, The. (See Thomas, George B., assignor.)
Perrin Shocker Manufacturing Company. (See Perrin, William H., assignor.)
Perrin, William H., assignor to Perrin Shocker Manufacturing Company, Limited, New Liskeard, Ontario, Canada. Sheaf-shocker. No. 1,346,974; July 20; v. 276; p. 446.
Peterson, Carl E., Montclair, assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Button-loop. No. 1,346,911; July 20; v. 276; p. 433.
Peterson, John, *et al.* (See Johnson, Albert S., assignor.)
Peterson, Peter R., Salt Lake City, Utah. Gas-engine. No. 1,347,055; July 20; v. 276; p. 462.
Petlak, Aleck. (See Petriw, A., and Petlak.)
Petriw, Aleck, and A. Petlak, Goodeve, Saskatchewan, Canada. Nut-lock. No. 1,346,975; July 20; v. 276; p. 446.
Piersen, Edwin H., assignor to The Piersen Telegraph Transmitter Company, Topeka, Kans. Telegraph-transmitter. (Reissue.) No. 14,921; July 20; v. 276; p. 547.
Piersen Telegraph Transmitter Company, The. (See Piersen, Edwin H., assignor.) (Reissue.)
Pitman, Frederick, East Kew, Victoria, Australia. Rubber stamp. No. 1,346,912; July 20; v. 276; p. 434.
Pittsburgh Gage & Supply Company. (See Freed, G. F., and Spencer, assignors.)
Pneumatic Process Flotation Company. (See Gahl, Rudolf, assignor.)
Pope, Edwin, Quebec, Quebec, Canada. Typewriting-machine. No. 1,347,290; July 20; v. 276; p. 508.
Porfyrij, Kiselycia. (See Zubryd, Anton, assignor.)
Potash Extraction Corporation. (See Glaeser, Walter, assignor.)
Power Specialty Company. (See Foster, Ernest H., assignor.)
Press, John. (See Reichmann, F. J., and Press.)
Price, Raymond B., New York, N. Y., assignor to Rubber Refrigerating Company. Testing-machine. No. 1,347,291; July 20; v. 276; p. 508.
Propert, Thomas G., and W. R. Brown, assignors of one-third to A. T. Woolford, Chippendale, New South Wales, Australia. Snap-lock for doors, gates, and the like. No. 1,347,292; July 20; v. 276; p. 509.
Prouty, Theodore C., Hermosa Beach, Calif., assignor, by mesne assignments, to Van Sicklen Speedometer Company, Wilmington, Del. Pump for speedometers. (Reissue.) No. 14,922; July 20; v. 276; p. 547.
Quesenbery, Thomas W. (See Childress, Patrick H., assignor.)
Raico Manufacturing Co. (See Lofgren, John, assignor.)
Ramén, Arthur, Helsingborg, Sweden. Movable irrigating apparatus. No. 1,346,843; July 20; v. 276; p. 419.
Rankin, George L., Munhall, Pa. School-desk. No. 1,346,976; July 20; v. 276; p. 447.
Raymond, Joseph A., Chicago, Ill. Collapsible casket-carrier. No. 1,347,466; July 20; v. 276; p. 542.
Reichmann, Frank J., and J. Press, Chicago, Ill.; said Press assignor to said Reichmann. Telephone instrument. No. 1,347,175; July 20; v. 276; p. 485.
Reininger, Henry, New Orleans, La. Barrel-washing machine. No. 1,347,402; July 20; v. 276; p. 530.
Remington, Harvey W., New York, N. Y. Core for molding hollow concrete columns. No. 1,346,844; July 20; v. 276; p. 420.
Repetto, John, Philadelphia, Pa. Fluid-cock. No. 1,346,977; July 20; v. 276; p. 447.
Revere Rubber Company. (See Davis, Laurence R., assignor.)
Reynolds, R. J., Tobacco Company. (See Richter, Hans F., assignor.)
Ricarfdo, Harry R., London, England. Piston for internal-combustion engines. No. 1,346,845; July 20; v. 276; p. 420.
Rice, Oscar J., Libby, Mont. Canvas-adjuster. No. 1,347,121; July 20; v. 276; p. 474.
Richard, Joseph, Montreal, Quebec, Canada. Composition paint for leather. No. 1,346,846; July 20; v. 276; p. 420.
Richardson, Harmon S., Massillon, Ohio. Automobile-door latch. No. 1,347,229; July 20; v. 276; p. 495.
Richter, Hans F., assignor, by mesne assignments, to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Tobacco-stemming machine. No. 1,347,403; July 20; v. 276; p. 530.
Richter, Hans F., assignor, by mesne assignments, to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Tobacco-stemming machine. No. 1,347,404; July 20; v. 276; p. 530.
Ricks, Tillman D., Lyons, Ga. Hog-yoke. No. 1,347,352; July 20; v. 276; p. 520.
Riley, Joshua J., and E. E. Blackstone, Pontiac, Mich. Tool-holder. No. 1,346,978; July 20; v. 276; p. 447.
Riley, Phillip L., Blairsville, Pa. Window-seat. No. 1,347,122; July 20; v. 276; p. 474.
Ripley, Ernest. (See Skinner, Fred R., assignor.)
Ripsch, Charles W., and J. C. Dawley, assignors to The Joyce-Cridland Company, Dayton, Ohio. Flexible-base jack. No. 1,346,847; July 20; v. 276; p. 420.
Rives, Hal D., *et al.* (See Lewis, Jesse D., assignor.)
Robbins, Louis S., and W. E. Gilmore, Klamath Falls, Oreg. Road-shoe for automobiles. No. 1,347,405; July 20; v. 276; p. 531.
Roberts, Fred T., Cleveland Heights, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Making hollow rubber articles. No. 1,346,848; July 20; v. 276; p. 420.

Roberts, Richard H., Henderson, Auckland, assignor to P. N. Kingswell, trustee, One Tree Hill, Auckland, New Zealand. Collapsible box, case, or crate. No. 1,347,230; July 20; v. 276; p. 495.
Roberts, William E., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y. Valve for coke-ovens and the like. No. 1,347,056; July 20; v. 276; p. 462.
Robinson, Benjamin E., Tulsa, Okla. Sewing-machine attachment. No. 1,347,406; July 20; v. 276; p. 531.
Rock Hill Paint and Cloth Company. (See Thompson, Nathaniel A., assignor.)
Rohlff, Herman, Davenport, Iowa. Ever-set cage-trap. No. 1,347,407; July 20; v. 276; p. 531.
Rose, Samuel S., assignor of one-half to W. H. Weller, San Jose, Calif. Driven steering-wheel for vehicles. No. 1,347,293; July 20; v. 276; p. 509.
Rosenfeld, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J. Lamp-support. No. 1,346,913; July 20; v. 276; p. 434.
Ross, Waldo A., Sioux Falls, S. D. Extinguishing fires in and about hydrocarbon-tanks and apparatus for carrying out same. No. 1,347,057; July 20; v. 276; p. 463.
Rossini, Joshua, Olyphant, Pa. Water-pump-controlling device. No. 1,347,408; July 20; v. 276; p. 531.
Rothermel, Curtis J., Philadelphia, Pa., assignor to The Barrett Company. Container and dispensing device. No. 1,347,231; July 20; v. 276; p. 496.
Rowe, Cecil B., and J. Lavercombe, Castlemaine, Victoria, Australia. Headlight attachment for vehicles. No. 1,347,409; July 20; v. 276; p. 532.
Rubber Regenerating Company. (See Price, Raymond B., assignor.)
Rugh, Harry O., Chicago, Ill. Telegraph signaling system. No. 1,347,176; July 20; v. 276; p. 485.
Rutherford, Eugene W., New Haven, Conn., assignor to The Shoe Hardware Company. Buckle. No. 1,346,979; July 20; v. 276; p. 447.
Ryan, Cornelius J., Meriden, Conn. Cap-remover. No. 1,347,410; July 20; v. 276; p. 532.
Ryan, Thomas F. (See Thompson, John T., assignor.)
S. W. H. Engineering Company, The. (See Howe, James M., assignor.)
Sanitary Can Machinery Company. (See Brenzinger, Julius, assignor.)
Saslow, Edward, Muskegon, Mich. Electric apparatus for heating and vaporizing hydrocarbon fuels. No. 1,347,177; July 20; v. 276; p. 485.
Saurer, Hippolyt, Arbon, Switzerland. Shuttle-operating mechanism for embroidering-machines. No. 1,347,232; July 20; v. 276; p. 496.
Sauvage, Herbert J., Chicago, Ill. Motor-vehicle. No. 1,346,914; July 20; v. 276; p. 434.
Sauvage, Herbert J., Chicago, Ill. Tractor. No. 1,346,915; July 20; v. 276; p. 434.
Sawtell, William H., assignor of one-half to N. R. Thibert, Worcester, Mass. Nut-locking device. No. 1,347,294; July 20; v. 276; p. 509.
Saxon, Sarah A. (See Hood, James J., assignor.)
Scanes, Arthur E. L., Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Apparatus for exhausting air and noncondensable gases. No. 1,346,980; July 20; v. 276; p. 447.
Scanes, Arthur E. L., Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Valve device. No. 1,347,411; July 20; v. 276; p. 532.
Schaefer, Peter C., H. D. Huise, and G. M. Livingstone, Denver, Colo., assignors to said P. C. Schaefer. Auto-porch bed. No. 1,347,412; July 20; v. 276; p. 532.
Schaefer, Peter C., Denver, Colo. Auto-porch bed. No. 1,347,413; July 20; v. 276; p. 532.
Schenk, Bernhardt, Chicago, Ill. Pipe and rod bending machine. No. 1,346,981; July 20; v. 276; p. 448.
Schenk, Martin J., Chicago, Ill. Crank-shaft. No. 1,347,178; July 20; v. 276; p. 485.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Projectile for bomb-throwers. No. 1,347,125; July 20; v. 276; p. 475.
Schnitzspahn, Oscar E., Buffalo, N. Y. Coin-counting apparatus. No. 1,347,179; July 20; v. 276; p. 485.
Schophach, Charles H., assignor to International Corset Company, Aurora, Ill. Corset. No. 1,347,180; July 30; v. 276; p. 486.
Schrader, John R., assignor to Dieter Nut Company, New York, N. Y. Lock-nut. No. 1,347,124; July 20; v. 276; p. 475.
Schroeder, Jesse L., Erie, N. D. Machine for cutting seed-potatoes. No. 1,347,058; July 20; v. 276; p. 463.
Schwartz, Carl, Sheboygan Falls, Wis. Attachment for fountain-pens. No. 1,346,982; July 20; v. 276; p. 448.
Schweiz. Serum- und -Impfinstitut. (See Eckmann, Aron, assignor.)
Scohy, John R., Okmulgee, Okla. Glass-furnace. No. 1,347,181; July 20; v. 276; p. 486.
Scott, Joseph A., and J. S. Voigt, assignors of one-third to J. Stuart, Detroit, Mich. Tire-lock. No. 1,347,467; July 20; v. 276; p. 543.
Sedlak, John, Fairchance, Pa. Rail-joint. No. 1,347,414; July 20; v. 276; p. 533.
Sell, Ella R., Spokane, Wash. Combined curtain-pole and window-shade bracket. No. 1,347,126; July 20; v. 276; p. 475.
Seng Company, The. (See Okun, Morris B., assignor.)
Sedwick, Mathew M., Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Stack-holder for can ends. No. 1,347,295; July 20; v. 276; p. 509.
Sella, Edward J., Jewell, Iowa. Extension steering device. No. 1,347,296; July 20; v. 276; p. 509.
Shaffer, Joseph, McKittrick, Calif. Adjustable pipe-wrench. No. 1,346,983; July 20; v. 276; p. 448.
Shanklin, Benjamin M., Springfield, Mass. Strip-punching apparatus. No. 1,346,916; July 20; v. 276; p. 434.
Shaw, Charles H., Babylon, N. Y. Phonograph sound-boxes. No. 1,347,059; July 20; v. 276; p. 463.
Shaw, Robert M., St. Louis, Mo. Electrolytic cell. No. 1,346,849; July 20; v. 276; p. 421.
Shearer, Edward J., Colton, Calif., and M. M. Owens, Lordsburg, N. Mex. Gage-cock. No. 1,346,984; July 20; v. 276; p. 448.
Sherman, Cortis F., Hartford, Conn., assignor to Hess-Bright Manufacturing Company, Philadelphia, Pa. Expanding arbor. No. 1,346,917; July 20; v. 276; p. 435.
Sherman, Frank A., and J. M. Hall, Hamilton, Ontario, Canada. Method and apparatus for making shell-forgings. No. 1,347,415; July 20; v. 276; p. 533.
Shields, George F., assignor of one-fourth to H. E. Shiner, one-fourth to J. P. Berne, and one-fourth to L. E. Wright, Los Angeles, Calif. Carbureter attachment. No. 1,347,297; July 20; v. 276; p. 509.
Shiner, Harold E., *et al.* (See Shields, George F., assignor.)
Shoe Hardware Company, The. (See Rutherford, Eugene W., assignor.)
Shuman, Frank G., Chicago, Ill. Tag-holder. No. 1,347,233; July 20; v. 276; p. 496.
Siddeley-Deasy Motor Car Company. (See Green, F. M., and Heron, assignors.)
Sills, Berton H., Toronto, Ontario, Canada. Fender for motor-cars. No. 1,346,850; July 20; v. 276; p. 421.
Simpson, James E., Brooklyn, assignor to Typewriter Accessories Co., Inc., New York, N. Y. Typewriting-machine. No. 1,346,851; July 20; v. 276; p. 421.
Singer Manufacturing Company, The. (See Fifield, Albert F., assignor.)
Singer Manufacturing Company, The. (See Gray, Charles F., assignor.)
Singleterry, Sidney, Dallas, Oreg. Convertible chair. No. 1,347,127; July 20; v. 276; p. 475.
Skinner, Fred R., Syracuse, N. Y., assignor of one-half to E. Ripley, Los Angeles, Calif. Paper bag. No. 1,346,852; July 20; v. 276; p. 421.
Sleeper, Joseph J., Moores, Del., and W. Mills, Pleasantville, N. J.; said Mills assignor to said Sleeper. Wrapper-pasting device. No. 1,347,182; July 20; v. 276; p. 486.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Receptacle-closure. No. 1,346,853; July 20; v. 276; p. 421.
Smalley, Edwin L., East Orange, N. J. Electric furnace. No. 1,346,854; July 20; v. 276; p. 422.
Smit, Harry, New York, N. Y. (Reissue.) Surgical instrument. No. 14,923; July 20; v. 276; p. 547.
Smith, Clyde L., and E. S. Webster, assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind. Rasping-disk. No. 1,347,298; July 20; v. 276; p. 510.
Smith, Clyde L., and E. S. Webster, assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind. Rasping-wheel. No. 1,347,299; July 20; v. 276; p. 510.
Smith & Coventry. (See Wright, Isaac H., assignor.)
Smith, Earl G., Crandon, Wis. Valve-control mechanism. No. 1,347,300; July 20; v. 276; p. 510.
Smith One Heat System. (See Smith, C. L., and Webster, assignors.)
Smith, Reuben S., Milwaukee, Wis. Metal wheel. No. 1,347,183; July 20; v. 276; p. 486.
Smith, Reuben S., Milwaukee, Wis. Electric-arc-welding machine. No. 1,347,184; July 20; v. 276; p. 486.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mounting for rock-drills. No. 1,347,185; July 20; v. 276; p. 486.
Smith, William E., Milltown, assignor to The Interwoven Mills, Inc., New Brunswick, N. J. Circular-knitting machine. No. 1,347,186; July 20; v. 276; p. 487.
Snyder, Eugene L., Canton, Ohio. Floor-polisher. No. 1,346,918; July 20; v. 276; p. 435.
Snyder, William A., Mazomanie, Wis. Razor-guard. No. 1,346,855; July 20; v. 276; p. 422.
Sokolov, Jacob, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,347,187; July 20; v. 276; p. 487.
Sonoda, Heijiro, Yakima, Wash. Mechanical vehicle. No. 1,346,985; July 20; v. 276; p. 449.
Spadafora, Joseph, Cambridge, Mass. Resilient tire. No. 1,347,060; July 20; v. 276; p. 463.
Specialty Automatic Machine Company. (See La Bombard, Leon E., assignor.)
Spencer, John R. (See Freed, G. F., and Spencer.)
Societe Anonyme Des Ateliers D'Aviation Louis Breguet. (See Breguet, Louis, assignor.)
Societe Anonyme des Engrenages. (See Boas, André, assignor.)
Spero, David L., Brownsville, Tex. Demountable-rim-fastening means. No. 1,347,128; July 20; v. 276; p. 476.

Sprague, Abbie C., Boston, Mass. Bookmarker. No. 1,346,856; July 20; v. 276; p. 422.
Squires, Clyde R., Baylor, Mont. Footrest for radiators. No. 1,347,129; July 20; v. 276; p. 476.
Srader, Charles N., Canton, Okla. Repair-hub and wheel-pulley. No. 1,346,857; July 20; v. 276; p. 422.
Stamm, George T., Upland, assignor to F. Stebler, Riverside, Calif. Apparatus for drying fruit. No. 1,346,986; July 20; v. 276; p. 449.
Standard Computing Scale Company, The. (See Buckingham, Fremont H., assignor.)
Standard Parts Company, The. (See Fay, Thomas J., assignor.)
Stanford, Arthur L., Chicago, Ill. Rail-anchor. No. 1,347,301; July 20; v. 276; p. 510.
Stanford, Arthur L., Chicago, Ill. Rail-anchor. No. 1,347,302; July 20; v. 276; p. 510.
Stark, Ottmar G. (See Flammang, John, assignor.)
Starr, Charles M., South Bend, Ind. Tire-pump. No. 1,346,919; July 20; v. 276; p. 435.
Stebbins, William A., Seattle, Wash. Razor. No. 1,347,234; July 20; v. 276; p. 496.
Stebler, Fred. (See Stamm, George T., assignor.)
Steigerwald, Edward, Philadelphia, Pa. Score-keeping apparatus. No. 1,346,987; July 20; v. 276; p. 449.
Stein, Abraham, Boston, Mass. Work holder and guide for sewing-machines. No. 1,346,988; July 20; v. 276; p. 449.
Stein, Samuel F., Williamsport, Pa. Bifurcated garment. No. 1,347,188; July 20; v. 276; p. 487.
Steinacher, Hertha, New York, N. Y. Hair-curler. No. 1,346,920; July 20; v. 276; p. 435.
Steinbrecher, John, Chicago, Ill. Combined shank and arch support for footwear. No. 1,347,061; July 20; v. 276; p. 463.
Stevens, Royale H., Risdon Road, Hobart, Tasmania, assignor to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Recovery of zinc by electrolysis. No. 1,347,189; July 20; v. 276; p. 487.
Stevenson, Joseph W., Baltimore, Md. Trap. No. 1,347,130; July 20; v. 276; p. 476.
Stewart, Laurence E., assignor to Consolidated Machine Company, Bradford, Pa. Apparatus for drawing glass cylinders. No. 1,347,131; July 20; v. 276; p. 476.
Stewart, William W., Leavenworth, Kans. Dispensing-machine. No. 1,347,416; July 20; v. 276; p. 533.
Stoklosa, Frank, Chicago, Ill. Pump. No. 1,346,989; July 20; v. 276; p. 449.
Stockwell, Millard E., Monrovia, Calif. Tractor. No. 1,347,468; July 20; v. 276; p. 543.
Stone, Fred L., Schenectady, N. Y., assignor to General Electric Company. Electric hoists. No. 1,347,303; July 20; v. 276; p. 511.
Striegler, Fritz, Fort McKavett, Tex. Automatic trough-valve. No. 1,347,353; July 20; v. 276; p. 521.
Stromberg, Jean E., San Diego, Calif. Panoramic camera. No. 1,347,062; July 20; v. 276; p. 464.
Stuart, Francis L., New York, N. Y. Conveying apparatus. No. 1,346,990; July 20; v. 276; p. 449.
Stuart, Johnston. (See Scott, J. A., and Voigt, assignors.)
Sturk, Ernest E., Tuxedo Park, N. Y. Combination furniture. No. 1,347,417; July 20; v. 276; p. 533.
Suren, Nathan H., Needham, Mass., assignor to The Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Time-controlled mechanism. No. 1,346,858; July 20; v. 276; p. 422.
Susslin, Adolph, New Orleans, La. Mail catching and delivering apparatus. No. 1,347,418; July 20; v. 276; p. 533.
Sweely, Burton T. (See Bellamy, H. T., and Sweely.)
Sweetland, Hugh D., *et al.* (See Crick, Arthur, assignor.)
Swenson, Axel, Lyndhurst, N. J. Receptacle-cover. No. 1,347,419. July 20; v. 276; p. 534.
Sztary, Joseph, and L. Kovács, Bellaire, Ohio. Direction-signal. No. 1,347,420; July 20; v. 276; p. 534.
Tallman, Charles M., Delavan, Wis. Pipe-cleaner. No. 1,347,304; July 20; v. 276; p. 511.
Tatum, George M., Media, Pa. Rubber ball. No. 1,346,991; July 20; v. 276; p. 450.
Tatum, Samuel C., Company, The. (See Dom, Alexander, assignor.)
Taylor, William G., Schnectady, N. Y., assignor to General Electric Company. Motor-control. No. 1,347,305; July 20; v. 276; p. 511.
Temple, Fred W., Kalamazoo, Mich. Electrical indicators. No. 1,347,421; July 20; v. 276; p. 534.
Tenesch, Max M., Kelso, Calif. Air preheaters for furnaces. No. 1,346,992; July 20; v. 276; p. 450.
Terry, Edward, London, England. Automatic valve. No. 1,346,921; July 20; v. 276; p. 435.
Teuscher, Adolph and O. T., Hillsdale, Oreg. Automobile-sander. No. 1,347,306; July 20; v. 276; p. 511.
Teuscher, Otto. (See Teuscher, Adolph and O.)
Thibeault, Dello, Campello, assignor of one-half to A. J. Veilleux, Brockton, Mass. Automobile signal mechanism. No. 1,347,063; July 20; v. 276; p. 464.
Thibert, Napoleon R. (See Sawtell, William H., assignor.)
Thomas, Edward G., Toledo, Ohio. Child's table utensil. No. 1,347,307; July 20; v. 276; p. 511.
Thomas, George B., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric switch. No. 1,347,308; July 20; v. 276; p. 512.
Thomas, Harry A., assignor to M. Thomas, Pittsburgh, Pa. Sheet-metal construction. No. 1,347,190; July 20; v. 276; p. 488.
Thomas, Margerie. (See Thomas, Harry A., assignor.)
Thomas, Thomas H., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Car-door and brake control device. No. 1,346,859; July 20; v. 726; p. 422.
Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Tubular fuselage. No. 1,346,963; July 20; v. 276; p. 450.
Thompson, Nathaniel A., Kansas City, Kans., assignor to Rock Hill Paint and Cloth Company. Mineral paint-pigment. No. 1,347,191; July 20; v. 276; p. 488.
Thomson, John, *et al.* (See Biette, Henry C., assignor.)
Thone, Frank H., Bingham Canyon, Utah. Signal. No. 1,346,994; July 20; v. 276; p. 450.
Timosci, Antonio T., San Jose, Calif. Washboiler. No. 1,347,354; July 20; v. 276; p. 521.
Tinsley, Clarence B., Cleveland, Ohio. Motorcycle-stand. No. 1,347,355; July 20; v. 276; p. 521.
Titmus, Richard A. (See Witt, William H., assignor.)
Toland, Ward J., Dunnemora, N. Y. Directory. No. 1,346,995; July 20; v. 276; p. 450.
Tonkin, George A., assignor of one-half to P. Evans, London, England. Machine for molding concrete or like blocks. No. 1,347,356; July 20; v. 276; p. 521.
Torsted, Josephine, and H. Finsness, St. Paul, Minn. Flour-sifter. No. 1,347,064; July 20; v. 276; p. 464.
Toth, Steven, Los Angeles, Calif. Well-boring tool. No. 1,347,469; July 20; v. 276; p. 543.
Tourneur, Henri, Paris, France. Machine for making metal buttons. No. 1,347,235; July 20; v. 276; p. 496.
Townsend, Layton W., assignor to H. A. Chilman, Hamilton, Ontario, Canada. Collapsible hanger. No. 1,346,922; July 20; v. 276; p. 436.
Tracy, James J. (See Morse, L. H., and Tracy.) (Reissue.)
Tregoning, William C., Cleveland, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical-plug connector. No. 1,346,860; July 20; v. 276; p. 423.
Troutman, Dewey, Hawarden, Iowa. Ironing-board. No. 1,347,132; July 20; v. 276; p. 476.
Troy Laundry Machine Co. (See Bartholomew, William, assignor.)
Turner, Stanley S. (See Clark, Edward W., assignor.)
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure governor. No. 1,346,861; July 20; v. 276; p. 423.
Tuttle, Lauren T., San Francisco, Calif. Commutator. No. 1,347,065; July 20; v. 276; p. 464.
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Twombly, Moses W. (See Hathaway, L. N., Twombly, and Hammond.)
Twyman, Frank, assignor to Adam Hilger, Limited, London, England. Apparatus for testing lenses. No. 1,347,133; July 20; v. 276; p. 477.
Tygard, Harry L., Pittsburgh, and G. M. Hamilton, Oakmont, Pa. Fuel-control mechanism for internal-combustion engines. No. 1,347,192; July 20; v. 276; p. 488.
Typewriter Accessories Co. (See Simpson, James E., assignor.)
Tzilides, James N., New York, N. Y., and R. H. Parker, Winthrop, Mass.; said Parker assignor to said Tzilides. Sheet feeding and cutting mechanism. No. 1,347,134; July 20; v. 276; p. 477.
U. S. Slicing Machine Company. (See van Berkel, Cornelis F. M., assignor.)
Underwood, Herman M., New York, N. Y. Wall service-bushing for vacuum cleaning and other systems. No. 1,347,236; July 20; v. 276; p. 497.
Underwood Typewriter Company. (See Hilsee, Charles M., assignor.)
Underwood Typewriter Company. (See Sokolov, Jacob, assignor.)
Underwood Typewriter Company. (See Wernery, Lester A., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
Upp, John W., Schenectady, N. Y., assignor to General Electric Company. Paper receptacle. No. 1,347,309; July 20; v. 276; p. 512.
Utter, Leon L. (See Johnson, Stephen G., assignor.)
Van Alstyn, Albert T., Grand Rapids, Mich. Catamenial bandage. (Reissue.) No. 14,924; July 20; v. 276; p. 548.
Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,346,996; July 20; v. 276; p. 450.
Van Berkel, Cornelius F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Feed-screw. No. 1,346,997; July 20; v. 276; p. 451.
Vanblom, Albert, Rockford, Ill. Shoe-heel. No. 1,347,422; July 20; v. 276; p. 534.
Vandecar, Aaron, assignor to Colonial Machine Company, Inc., Syracuse, N. Y. Weighing-scale. No. 1,346,862; July 20; v. 276; p. 423.

Vandercar, William J., Cohoes, N. Y., assignor to Colonial Machine Company, Inc., Syracuse, N. Y. Advertising device for weighing-scales. No. 1,346,923; July 20; v. 276; p. 436.
Van Meter, James W., Buenos Aires, Argentina. Animal exterminator. No. 1,347,310; July 20; v. 276; p. 512.
Van Sicklen Speedometer Company. (See Prouty, Theodore C., assignor.) (Reissue.)
Van Valkenburg, Peter, Otterville, Ontario, Canada. Music-leaf clip. No. 1,347,135; July 20; v. 276; p. 477.
Veale, Thomas H., Camp Devens, Mass. Dental appliance. No. 1,346,998; July 20; v. 276; p. 451.
Veilleux, Alfred J. (See Thibeault, Dello, assignor.)
Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,346,999; July 20; v. 276; p. 451.
Vibration Specialty Company. (See Akimoff, Nicholas W., assignor.)
Vickers Limited. (See Dawson, A. L., and Buckham, assignors.)
Vince, Joseph, Brooklyn, N. Y. Flash-light. No. 1,347,423; July 20; v. 276; p. 534.
Voigt, Johnston C. (See Scott, J. A., and Voigt.)
Vuia, Trajan, Garches, France. Propelling, tractive, and supporting apparatus. No. 1,347,424; July 20; v. 276; p. 535.
Vuono, Giuseppi P., Brooklyn, N. Y. Silk-finishing machine. No. 1,347,066; July 20; v. 276; p. 464.
Waddington, Edward C., Woodstown, N. J. Combined cutter and scraper. No. 1,347,237; July 20; v. 276; p. 497.
Wade, John, St. Paul, and S. J. Markin and H. A. Du Prey, Minneapolis, Minn.; said Markin assignor to said Wade and said Du Prey. Door opening and closing device. No. 1,347,193; July 20; v. 276; p. 488.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. No. 1,346,863; July 20; v. 276; p. 424.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. No. 1,346,864; July 20; v. 276; p. 424.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. No. 1,346,865; July 20; v. 276; p. 424.
Ward Leonard Electric Co. (See Kebler, Leonard, assignor.)
Warren, William F., Shelburn, Ind. Automobile-pump. No. 1,346,866; July 20; v. 276; p. 424.
Wassaler, Paul C., *et al.* (See Biette, Henry C., assignor.)
Washburn, Edwin C., Englewood, assignor of one-third to R. S. Blair, South Orange, N. J. Apparatus and art for handling coal and the like. No. 1,347,000; July 20; v. 276; p. 451.
Washington, Elwood, Hammond, Ind. Vacuum-cabinet. No. 1,347,194; July 20; v. 276; p. 488.
Waterbury Clock Co. (See Mathes, Gunther E. H., assignor.)
Watson, Alexander, Atlantic, assignor of one-half to W. G. Mitchell, Malden, Mass. Terminal for pneumatic-despatch-tube systems. No. 1,347,136; July 20; v. 276; p. 477.
Watson, Grover C., Mineral Wells, Tex. Paint. No. 1,347,311; July 20; v. 276; p. 512.
Weant, Clarence H., Baltimore, Md. Printing-press chase. No. 1,347,312; July 20; v. 276; p. 512.
Weaver, Robert R., Columbus, Ohio. Manufacture of jaws for brake-rod connections. No. 1,347,137; July 20; v. 276; p. 477.
Webster, Emmett S. (See Smith, C. L., and Webster.)
Welbull, Nils R. M., Bofors, Sweden. Stop or set screw. No. 1,346,867; July 20; v. 276; p. 425.
Weiss, George W., New York, N. Y. Machine for making hat-linings. No. 1,347,001; July 20; v. 276; p. 451.
Wietecha, Josef, assignor to N. Nigbor, Detroit, Mich. Toy. No. 1,347,238; July 20; v. 276; p. 497.
Weiler, Charles, Zurich, Switzerland. Workshop ventilation. No. 1,347,195; July 20; v. 276; p. 488.
Weller, Wilfred H. (See Rose, Samuel S., assignor.)
Wenger, Solomon B., South English, Iowa. Drinking-fountain and feeder for poultry. No. 1,347,425; July 20; v. 276; p. 535.
Werner, Carl H., Waterloo, Iowa. Wire-clamp-fastening means. No. 1,347,196; July 20; v. 276; p. 489.
Wernery, Lester A., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,347,197; July 20; v. 276; p. 489.
Western Electric Company Incorporated. (See Bellamy, H. T., and Sweely, assignors.)
Western Electric Company. (See Hosford, William F., assignor.)
Western Vulcanizer Manufacturing Company. (See Fontaine, Walter R., assignor.)
Westinghouse Air Brake Company. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
White, Frank C., Meriden, Conn. Phonograph-cabinet. No. 1,347,067; July 20; v. 276; p. 465.
White, S. S., Dental Manufacturing Company, The. (See Glenn, Thomas F., assignor.)
Whitelaw, James, St. Louis, Mo., and G. T. May, Jr., Chicago, Ill. Sewing-machine looper. No. 1,347,313; July 20; v. 276; p. 512.
Wiberg, Charles A., Duluth, Minn. Shock-absorber. No. 1,347,138; July 20; v. 276; p. 478.
Wilder, Henry S., Newton, Mass. Keyboard for practicing and teaching the playing of the piano. No. 1,347,068; July 20; v. 276; p. 465.
Willey, Arthur R., Denver, Colo. Centrifugal pump. No. 1,346,924; July 20; v. 276; p. 436.
Willey, Arthur R., Denver, Colo. Standpipe connection for centrifugal pumps. No. 1,346,925; July 20; v. 276; p. 436.
Willey, Arthur R., Denver, Colo. Centrifugal pump. No. 1,346,926; July 20; v. 276; p. 436.
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Wilkinson, Thomas F., assignor of one-half to H. T. Wilkinson, Manchester, England. Separating or grading apparatus. No. 1,347,314; July 20; v. 276; p. 513.
Williams, Rowland T. D. (See Avery, D., and Williams.)
Williams, Stanley E., San Francisco, Calif. Drafting-board. No. 1,347,426; July 20; v. 276; p. 535.
Williamson, Romeo L., Mount Vernon, Ohio. Power-transmission mechanism. No. 1,347,315; July 20; v. 276; p. 513.
Wilson, Kirke R., Buffalo, N. Y. Arbor-press. No. 1,346,868; July 20; v. 276; p. 425.
Wilson, William T., Bush, Ill. Railway-tie. No. 1,347,427; July 20; v. 276; p. 535.
Winn, Sidney B., assignor to Lapeer Tractor Truck Company, Lapeer, Mich. Trailer. No. 1,346,927; July 20; v. 276; p. 437.
Winning, John F. F. (See Baumann, K., Guy, and Winning.)
Winter, George F., Los Angeles, Calif. Safety-gate. No. 1,347,198; July 20; v. 276; p. 489.
Winters, David L., Edgewater, Md. Choke-valve. No. 1,347,199; July 20; v. 276; p. 489.
Winters, Harry E., *et al.* (See Howes, Willis E., assignor.)
Witt, William H., assignor of one-half to R. A. Titmus, Petersburg, Va. Clothespin. No. 1,347,429; July 20; v. 276; p. 535.
Wittekind, Arnold F., Trenton, N. J. Cooking utensil. No. 1,347,428; July 20; v. 276; p. 535.
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Wray, Charles C. (See Caley, E. C., and Wray.)
Wright, Isaac H., assignor to Smith & Coventry Limited, Manchester, England. Machine for forming grooves or flutes in twist-drills and the like. No. 1,346,928; July 20; v. 276; p. 437.
Wright, John C., Syracuse, N. Y. Guard for metal pails. No. 1,347,357; July 20; v. 276; p. 521.
Wright, Loyd E., *et al.* (See Shields, George F., assignor.)
Yancey, William F., Portsmouth, Va. Trolley-finder. No. 1,347,239; July 20; v. 276; p. 497.
Yanochowski, George A., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,347,069; July 20; v. 276; p. 465.
Yelle, Adolphe, Chenevville, Quebec, Canada. Canoe. No. 1,346,869; July 20; v. 276; p. 425.
York, Oscar M., Millington, Mich. Sheep-feeding rack. No. 1,347,070; July 20; v. 276; p. 465.
Young, Andrew E. (See Hamrick, Martin D., assignor.)
Young, Carl C., Rushville, Ill. Combined scaffold and derrick. No. 1,247,430; July 20; v. 276; p. 536.
Zaokipny, John, Baird, Ontario, Canada. Shovel attachment. No. 1,346,870; July 20; v. 276; p. 425.
Zeiss, Firm of Carl. (See König, Albert, assignor.)
Zion, Isidor, Ridgefield, N. J. Educational device. No. 1,346,929; July 20; v. 276; p. 437.
Zion, Isidor, Ridgefield, N. J. Educational device. No. 1,346,930; July 20; v. 276; p. 437.
Zobel, Charles A., Roanoke, Ala. Railway-crossing. No. 1,347,431; July 20; v. 276; p. 536.
Zubryd, Anton, assignor of one-half to Porfyrij Kiselycia, Jersey City, N. J. Life-buoy. No. 1,347,240; July 20; v. 276; p. 497.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

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Autoset Clamp Company, The. (See Townsend, Charles R., assignor.)
Badgley, Edna H., Springfield, Mo. Toy wagon. Nos. 55,838–9; July 20; v. 276; p. 548.
Becker, Smith & Page. (See Rochlen, William F., assignor.)
Bernstein, Solomon B., Brooklyn, N. Y. Doll. No. 55,840; July 20; v. 276; p. 548.
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Breitenstein, Arthur L., Akron, Ohio, assignor to Wilson Rubber Company, Des Moines, Iowa. Automobile-tire tread. No. 55,842; July 20; v. 276; p. 549.
Charlery, Alfred T., Luxembourg, Wis. Combination cap and bottle opener, box-opener, and cigar-cutter. No. 55,843; July 20; v. 276; p. 549.
Clancy, Timothy A., Hartford, Conn. Emblem, banner, badge, pin, or similar article. No. 55,844; July 20; v. 276; p. 549.
Cohn, Goldwater Company. (See Hirsh, Milton A., assignor.)
Cooper, Allyn R., Marshalltown, Iowa. Handle for muffler-valves. No. 55,846; July 20; v. 276; p. 550.
Crawford McGregor and Canby Company, The. (See Mattern, George W., assignor.)
Cross, Harry E., Rockton, Ill. Automobile-body. No. 55,845; July 20; v. 276; p. 549.
Dickinson, Herbert T., Denver, Colo. Emblem, badge, or button. No. 55,847; July 20; v. 276; p. 550.
Egan, James H., Philadelphia, Pa. Vending-machine. No. 55,848; July 20; v. 276; p. 550.
Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,849–50; July 20; v. 276; p. 550.
Erdoes, Julius, and E. Sas, assignor to The Metallograph Corporation, New York, N. Y. Inkstand. No. 55,851; July 20; v. 276; p. 551.
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Findley, Robert, Manufacturing Co. (See Schwartz, Frederick, assignor.)
Fisher, Abraham C., New York, N. Y. Lady's vanity-case. No. 55,852; July 20; v. 276; p. 551.
Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Clock-bank case. Nos. 55,853–4; July 20; v. 276; p. 551.
Folmer, Charles A., Bernharts, Pa. Automobile-top. No. 55,855; July 20; v. 276; p. 551.
Fry, Walter L., New Rochelle, N. Y. Combined trousers and boots. No. 55,856; July 20; v. 276; p. 552.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Inkstand. No. 55,857; July 20; v. 276; p. 552.
Gagnon, Bernard E., Bridgeport, Conn. Game-board. No. 55,858; July 20; v. 276; p. 552.
Hickey, Henry J., and W. E. McMullan, Fort Dodge, Iowa. Guide-post. No. 55,859; July 20; v. 276; p. 552.
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Hirsh, Milton A., assignor to Cohn, Goldwater Company, Los Angeles, Calif. Child's dress. No. 55,860; July 20; v. 276; p. 552.
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Iribe, Paul, New York, N. Y. Phonograph-cabinet. No. 55,863; July 20; v. 276; p. 553.
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La Vanway, Victor E. and O. L., assignors of one-half to F. Wayno, Tacoma, Wash. Child's velocipede. No. 55,865; July 20; v. 276; p. 553.
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McClure, Samuel Q., Akron, Ohio. Dictaphone-record cabinet. No. 55,869; July 20; v. 276; p. 554.
McGrevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Watch case and bow. No. 55,870; July 20; v. 276; p. 554.
McMullan, Warner E. (See Hickey, H. J., and McMullan.)
Mattern, George W., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Striking-face for a golf-club head. No. 55,867; July 20; v. 276; p. 553.
Meltz, Julius B., assignor to Everett Machine & Manufacturing Company, Everett, Mass. Ice-cream cone or similar article. No. 55,868; July 20; v. 276; p. 554.
Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
Metallograph Corporation, The. (See Erdoes, J., and Sas, assignors.)
Miles, Harry B., Elwood, Victoria, Australia. Talking-machine cabinet. No. 55,871; July 20; v. 276; p. 554.
Miller, Edward, & Co. (See Walter, Herman H., assignor.)
Montana, Pietro, Brooklyn, N. Y. Statue. No. 55,872; July 20; v. 276; p. 554.
Muxen, Matthew B., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Casing for a dispensing apparatus. No. 55,873; July 20; v. 276; p. 554.
Noirot, Leo F. and O. G., Peoria, Ill. Child's vehicle. No. 55,874; July 20; v. 276; p. 555.
Noirot, Otto G. (See Noirot, Leo F. and O. G.)
Orsenigo, Henry, Mount Vernon, N. Y. Phonograph-cabinet. Nos. 55,875–9; July 20; v. 276; p. 555.
Ouellette, Alfred J. (See Smith, H. B., Thomas, and Ouellette.)
Pajeau, Charles H., Evanston, Ill. Toy rattle. No. 55,880; July 20; v. 276; p. 556.
Pajeau, Charles H., Evanston, Ill. Doll. No. 55,881; July 20; v. 276; p. 556.
Perugzi, Ernesto, New York, N. Y. Doll. Nos. 55,882–6; July 20; v. 276; p. 556.
Poll, George, New York, N. Y. Table. No. 55,884; July 20; v. 276; p. 556.
Quinby, Erasmus C., Los Angeles, Calif. Candy-box. No. 55,885; July 20; v. 276; p. 556.
Reynolds, Florence K., San Francisco, Calif. Toy figure. No. 55,886; July 20; v. 276; p. 557.
Roehlen, William F., Rochester, N. Y., assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. No. 55,887; July 20; v. 276; p. 557.
Sandlass, Henry J., Forest Park, Md. Key-bed for pianos. No. 55,888; July 20; v. 276; p. 557.
Sas, Elmer. (See Erdoes, J., and Sas.)
Schwartz, Frederick, Brooklyn, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Plate for lighting-fixtures. Nos. 55,889–90; July 20; v. 276; p. 557.
Schwartz, Frederick, Brooklyn, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Plate for lighting-fixtures. No. 55,899; July 20; v. 276; p. 559.
Scudder, Eric, and N. C. Ward, Chicago, Ill. Bottle. Nos. 55,891–2; July 20; v. 276; pp. 557–8.
Simmons, Joseph, New York, N. Y. Finger-ring. No. 55,893; July 20; v. 276; p. 558.
Smith, Howell B., Nyack, N. Y., K. C. Thomas, Interlaken, N. J., and A. J. Ouellette, Duluth, Minn. Doll or statuette. Nos. 55,894–5; July 20; v. 276; p. 558.
Solidarity Watch Case Company. (See McGrevy, Jeremiah, assignor.)
Stackhouse, Edwin D., Columbus, Ohio. Badge, emblem, or article of similar nature. No. 55,896; July 20; v. 276; p. 558.
Susquehanna Silk Mills. (See Eisele, Adolphe, assignor.)
Tew, Frederick S., Fort Worth, Tex. Windshield. No. 55,897; July 20; v. 276; p. 558.
Thomas, Gust, Fort Sill, Okla. Inkstand. No. 55,898; July 20; v. 276; p. 559.
Thomas, Kenneth C. (See Smith, H. B., Thomas, and Ouellette.)
Tokheim Oil Tank and Pump Company. (See Muxen, Matthew B., assignor.)
Townsend, Charles R., assignor to The Autoset Clamp Company, Limited, Birmingham, England. Clamping-dog. No. 55,900; July 20; v. 276; p. 559.
Troll, Frederick J., assignor to The Loadometer Company, Baltimore county, Md. Load-measuring device. No. 55,901; July 20; v. 276; p. 559.
Waldo, Algermont H., St. Paul, Minn. Rug. Nos. 55,902–18; July 20; v. 276; pp. 559–62.
Ward, Neil C. (See Scudder, E., and Ward.)
Wayno, Frank. (See La Vanway, Victor E. and O. L., assignors.)
Wildenberg Bros. (See Wildenberg, Jacob, assignor.)
Wildenberg, Jacob, assignor to Wildenberg Bros., New York, N. Y. Bezel. No. 55,926; July 20; v. 276; p. 564.
Wilson Rubber Company. (See Breitenstein, Arthur L., assignor.)
Wise, Bey A., Vincennes, Ind. Tower-monument. No. 55,920; July 20; v. 276; p. 562.
Wolter, Herman H., assignor to Edward Miller & Co., Meriden, Conn. Lamp. No. 55,919; July 20; v. 276; p. 562.
Wolter, Herman H., assignor to Edward Miller & Co., Meriden, Conn. Lamp. Nos. 55,921–4; July 20; v. 276; p. 563.
Wolter, Herman H., assignor to Edward Miller & Co., Meriden, Conn. Support. No. 55,925; July 20; v. 276; p. 564.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adams & Westlake Company, The, Chicago, Ill. Door-rim, desk, berth, drawer, and sash locks and padlocks. No. 133,201; July 20; v. 276; p. 589.
Aktiebolaget Arca Regulatorer, Stockholm, Sweden. Hardware and plumbing and steam-fitting supplies. No. 133,202; July 20; v. 276; p. 589.
Amer Knitting Mills, Inc., New York, N. Y. Sweaters, bathing-suits. No. 133,203; July 20; v. 276; p. 589.
American Iron Products Company, Inc., New York, N. Y. Metals and metal castings and forgings. No. 133,204; July 20; v. 276; p. 589.
American Novelty Wash Suit Co., Inc., New York, N. Y. Boys' outer clothing. No. 133,205; July 20; v. 276; p. 589.
American Optical Company, Southbridge, Mass. Opthalmic lenses and lenses for all kinds of optical and scientific instruments. Nos. 133,206–7; July 20; v. 276; p. 589.
American Optical Company, Southbridge, Mass. Opthalmic lenses and lenses for optical instruments and appliances. No. 133,208; July 20; v. 276; p. 589.
Auto Indicator Company, Grand Rapids, Mich. Mechanically-operated traffic-signals for vehicles. No. 133,209; July 20; v. 276; p. 589.
Baldwin Chain and Manufacturing Company, Worcester, Mass. Power-transmission or drive chains for motor-trucks, &c. No. 133,210; July 20; v. 276; p. 589.
Beaumont, F., National-Croustade Manufacturing Company, Inc., The, New York, N. Y. Cup or dish like receptacles made of fried or baked pastry. No. 133,211; July 20; v. 276; p. 589.
Bernstein Manufacturing Company, Philadelphia, Pa. Cots and couches. No. 133,212; July 20; v. 276; p. 589.
Biltwell Glove Company, The, Toledo, Ohio. Gloves. No. 133,213; July 20; v. 276; p. 589.
Bloom & Moses, Inc., Baltimore, Md. Female apparel. No. 133,214; July 20; v. 276; p. 589.
Blue Bird Manufacturing Company, St. Louis, Mo. Kitchen tables and cabinets. No. 133,215; July 20; v. 276; p. 589.
Borgfeldt, George, & Co., New York, N. Y. Women's, misses', children's, and infants' felt shoes and slippers. No. 133,216; July 20; v. 276; p. 589.
Bray Pictures Corporation, The, New York, N. Y. Moving-picture films showing animated drawings issued serially. No. 133,217; July 20; v. 276; p. 589.
Bray Picture Corporation, The, New York, N. Y. Moving-picture films. No. 133,218; July 20; v. 276; p. 589.
Brewster-Goldsmith Corporation, Inc., New York, N. Y. Spark-plugs. No. 133,219; July 20; v. 276; p. 589.
Brubaker, W. L., & Bros, Millersburg, Pa. Staybolt-taps. No. 133,220; July 20; v. 276; p. 589.
Burnett-Larsh Manufacturing Company, The, Dayton, Ohio. Explosive-engines and parts therefor. No. 133,221; July 20; v. 276; p. 589.
California Packing Corporation, San Francisco, Calif. Canned vegetables. No. 133,222; July 20; v. 276; p. 589.
Campe Corporation, The, New York, N. Y. Bathing-suits, sweaters, and jerseys. No. 133,223; July 20; v. 276; p. 589.
Canton-Blackstone Company, Canton, Ohio. Rubber tires, rubber-tire casings, and inner tubes. No. 133,224; July 20; v. 276; p. 589.
Celite Products Company, Los Angeles, Calif., and New York, N. Y. Construction material. No. 133,225; July 20; v. 276; p. 589.
Chicago Pneumatic Tool Company, Chicago, Ill. Belting, hose, machinery packing, and non-metallic tires. No. 133,226; July 20; v. 276; p. 589.
Chinook Lumber & Shingle Co., Seattle, Wash. Shingles. No. 133,227; July 20; v. 276; p. 589.
Cleveland-Akron Bag Co., The, Cleveland, Ohio. Construction material. No. 133,228; July 20; v. 276; p. 590.
Cleveland-Akron Bag Company, The, Cleveland, Ohio. Composition strips and sheets for building and roofing purposes. No. 133,229; July 20; v. 276; p. 590.
Commercial Milling Co., The, Detroit, Mich. Wheat-flour. No. 133,230; July 20; v. 276; p. 590.
Corrosanti Chemical Co. Inc., Newark, N. J. Anticorrosive paint. No. 133,231; July 20; v. 276; p. 590.
Dalton Hosiery Mills, Dalton, Ga. Hosiery. No. 133,232; July 20; v. 276; p. 590.
Davidson Leroy E., Buffalo, N. Y. Moving-picture films. No. 133,233; July 20; v. 276; p. 590.
De Milo Distributing Co., New York, N. Y. Knitted underwear. No. 133,234; July 20; v. 274; p. 590.
Designers Instrument Company, Chicago, Ill. Intermittent fountain ruling-pens. No. 133,235; July 20; v. 276; p. 590.
Don-O-Lac Co., Inc., The, Rochester, N. Y. Prepared liquid varnish resembling shellac. No. 133,236; July 20; v. 276; p. 590.
Driver-Harris Company, Harrison, N. J. Wire and metallic strips of an alloy containing manganese. No. 133,237; July 20; v. 276; p. 590.
Du Pont, E. I., de Nemours & Company, Wilmington, Del. Granular and gelatinous explosives. No. 133,238; July 20; v. 276; p. 590.
Eichenfeld, Daniel, Tulsa, Okla. Wooden pipes and splicings. No. 133,239; July 20; v. 276; p. 590.
Eiseman, Samuel, & Co., New York, N. Y. Silk piece goods. No. 133,240; July 20; v. 276; p. 590.
Ely & Walker Dry Goods Company, St. Louis, Mo. Pajamas and nightgowns. No. 133,241; July 20; v. 276; p. 590.
Faber, Edmund J., St. Louis, Mo. Ventilating seat-pads. No. 133,242; July 20; v. 276; p. 590.
Farm Equipment Co., The, Baltimore, Md. Hardware and plumbing and steam fitting supplies. No. 133,243; July 20; v. 276; p. 590.
Ferguson, H. K., Company, Cleveland, Ohio. Permanent buildings and structural elements thereof. No. 133,244; July 20; v. 276; p. 590.
Field, Marshall, & Company, Chicago, Ill. Draperies and decorative fabrics. No. 133,279; July 20; v. 276; p. 591.
Formby Petrinite Corporation, Jacksonville, Fla. Tile, brick, and artificial stone. No. 133,245; July 20; v. 276; p. 590.
Friedman-Haas Co., The, Cleveland, Ohio. Dresses and skirts. No. 133,246; July 20; v. 276; p. 590.
Garcia, Alvaro, New York, N. Y. Cigars. No. 133,247; July 20; v. 276; p. 590.
Gavey, William S., New York, N. Y. Textile fabrics. No. 133,248; July 20; v. 276; p. 590.
Goodrich, B. F., Company, The, New York, N. Y. Printing-press inking-rollers. No. 133,249; July 20; v. 276; p. 590.
Granitex Company, Inc., New York, N. Y. Preparation for hardening and waterproofing cement mixtures. No. 133,250; July 20; v. 276; p. 590.
Greenpoint-Southern Company, Inc., Long Island City, N. Y. Mattresses, pillows, bed and box springs. No. 133,251; July 20; v. 276; p. 590.
Guiterman Rosenfeld Company, New York, N. Y. Clothing. No. 133,252; July 20; v. 276; p. 590.
Guiesian, Selden J., Revere, Mass. Hardware and plumbing and steam-fitting supplies. No. 133,253; July 20; v. 276; p. 590.
Haeuser, A. R., Co., New York, N. Y. Ready-mixed paints, paint-oils, varnishes, shellacs, lacquers, &c. No. 133,254; July 20; v. 276; p. 590.
Harkert Cigar Co., The, Davenport, Iowa. Cigars. No. 133,255; July 20; v. 276; p. 590.
Harris, Milton, Cincinnati, Ohio. Pajamas, union-pajamas, sleeping and lounging garments, and nightshirts. No. 133,256; July 20; v. 276; p. 590.
Hart & Hutchinson Company, The, New Britain, Conn. Steel cabinets for storage and filing purposes. No. 133,257; July 20; v. 276; p. 590.
Hartmann Brothers, Inc., New York, N. Y. Hair-nets. No. 133,258; July 20; v. 276; p. 590.
Hepworth, S. S., Company, New York, N. Y. Centrifugal driers, filters, and separators and parts thereof. No. 133,259; July 20; v. 276; p. 590.
Hessberg, Morris & Gunst, Inc., Baltimore, Md. Boys' suits. No. 133,260; July 20; v. 276; p. 591.
Hodgson Oil Refining Co., Athens, Ga. Lard substitute. No. 133,261; July 20; v. 276; p. 591.
Hulbert Oil & Grease Co., The, Philadelphia, Pa. Substitute for linseed-oil. No. 133,262; July 20; v. 276; p. 591.
Imperial Varnish and Color Company, Limited, The, Toronto, Ontario, Canada. Paints and painters' materials. No. 133,263; July 20; v. 276; p. 591.
Nordhem, Ivan B., Company, New York, N. Y. Ice-cream. No. 133,293; July 20; v. 276; p. 591.
Johnson-Bostwick & Co., Minneapolis, Minn. Coats, outer vests, and work-shirts for men. No. 133,264; July 20; v. 276; p. 591.
Joseph-Louis & Co., New York, N. Y. Fancy goods, furnishings, and notions. No. 133,265; July 20; v. 276; p. 591.
Karpen, S., & Bro., Chicago, Ill. Furniture-cushions. No. 133,266; July 20; v. 276; p. 591.
Kenyon, John, & Co. (Sheffield,) Limited, Sheffield, England. Cutlery, machinery, and tools, and parts thereof. No. 133,267; July 20; v. 276; p. 591.
King, Mrs. A. R., Inc., Philadelphia, Pa. Leather, rubber, and canvas shoes. No. 133,268; July 20; v. 276; p. 591.
Kirschbaum Company, The, Savannah, Ga. Cigars. No. 133,269; July 20; v. 276; p. 591.
Langfelder & Shrier, New York, N. Y. Dresses. No. 133,270; July 20; v. 276; p. 591.
Lehon Company, The, Chicago, Ill. Construction material. No. 133,271; July 20; v. 276; p. 591.

Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 133,272; July 20; v. 276; p. 591.
Lorenzen, Chas. F., & Co., Chicago, Ill. Letters or numbers made of highly-glazed porcelain blocks. No. 133,273; July 20; v. 276; p. 591.
Ludeman, Henry J. F., Pittsburgh, Pa. Bricks and building-blocks. No. 133,274; July 20; v. 276; p. 591.
Macy, R. H., & Co., Inc., New York, N. Y. Women's, misses', and children's dresses. No. 133,275; July 20; v. 276; p. 591.
Mangrané, Daniel, Barcelona, Spain. Olive oil. Nos. 133,276–7; July 20; v. 276; p. 591.
Marans, Morris, Sons, New York, N. Y. Men's and young men's clothes. No. 133,278; July 20; v. 276; p. 591.
Mauser, John J., Sanford, Fla. Cigars. No. 133,280; July 20; v. 276; p. 591.
Mayo-Skinner Mfg. Company, Chicago, Ill. Hand-operated tire-pumps. No. 133,281; July 20; v. 276; p. 591.
Mazzel Skirt Co. Inc., New York, N. Y. Skirts. No. 133,282; July 20; v. 276; p. 591.
Migel, J. A., Inc., New York, N. Y. Clothing for ladies, misses, and children. No. 133,283; July 20; v. 276; p. 591.
Miller Lock Company, Philadelphia, Pa. Locks. No. 133,284; July 20; v. 276; p. 591.
Mittelman, I., & Co., New York, N. Y. Ladies' and children's dresses. No. 133,286; July 20; v. 276; p. 591.
Moulton, Mace, Jr., Boston, Mass. Prepared bituminous concrete. No. 133,287; July 20; v. 276; p. 591.
Mowbray & Robinson Company, Wilmington, Del., and Cincinnati, Ohio. Lumber and hardwood flooring. No. 133,288; July 20; v. 276; p. 591.
Nathan and Cohen Co., New York, N. Y. Silk-filled crêpe-de-chine piece goods. No. 133,289; July 20; v. 276; p. 591.
National Building Company, The, Cleveland, Ohio. Composition for making concrete slabs. No. 133,290; July 20; v. 276; p. 591.
National Cash Register Company, Dayton, Ohio. Filing-cabinets and parts of same. No. 133,291; July 20; v. 276; p. 591.
New York Boys' Shops, Inc., New York, N. Y. Boys' clothing and wearing-apparel. No. 133,292; July 20; v. 276; p. 591.
Ohio Metal Co., The, Columbus, Ohio. Antifriction Babbitt metals. No. 133,294; July 20; v. 276; p. 592.
Park Chemical Company, Great Falls, Mont. Automobile-body polish and cleaner. No. 133,295; July 20; v. 276; p. 592.
Patterson-Sargent Company, The, Cleveland, Ohio. Dry and ready-mixed paints, driers, wood-stains, &c. Nos. 133,296–7; July 20; v. 276; p. 592.
Peake, W. O., Ltd., London, England. Weatherproof coats. No. 133,298; July 20; v. 276; p. 592.
Perfecto Manufacturers, Inc., New York, N. Y. Cigars. Nos. 133,299–300; July 20; v. 276; p. 592.
Polson Rubber Co., Cleveland, Ohio. Belting, hose, machinery packing, and non-metallic tires. No. 133,301; July 20; v. 276; p. 592.
Porter, Warren D., San Francisco, Calif. Men's and boys' underwear. No. 133,302; July 20; v. 276; p. 592.
Pritchard, William C., Lancaster, Pa. Computing-scales, measuring-pumps. No. 133,303; July 20; v. 276; p. 592.
Quigley Furnace Specialties Co., Incorporated, New York, N. Y. Refractory lining for furnace structures. No. 133,304; July 20; v. 276; p. 592.
Rader, Frank A., Cleveland, Ohio. Polish for furniture and woodwork. No. 133,305; July 20; v. 276; p. 592.
Revell, Alexander H., & Co., Chicago, Ill. Wall or partition sections or units. No. 133,306; July 20; v. 276; p. 592.
Rice-Stix Dry Goods Company, St. Louis, Mo. Neckties, cravats, mufflers, and collars. No. 133,307; July 20; v. 276; p. 192.
Rider Wallis Dry Goods Co., Dubuque, Iowa, and New York, N. Y. Cotton and knit piece goods, muslins, &c. No. 133,308; July 20; v. 276; p. 592.
Rogers, Hennessey & Jenkins, Boston, Mass. Quilts, cotton, and wool blankets, and traveling-rugs. No. 133,309; July 20 v. 276; p. 592.
Rollaway Company, The, Toledo, Ohio. Internal-combustion motors. No. 133,310; July 20; v. 276; p. 592.
Russian Tea Room & Art Shop, Chicago, Ill. Cigarettes. Nos. 133,311–13; July 20; v. 276; p. 592.
Sanger Brothers, Inc., Dallas, Tex., and New York, N. Y. Ginghams, cotton goods, wool and cotton goods, &c. No. 133,314; July 20; v. 276; p. 592.
Schreiber, Leon, Cleveland, Ohio. Women's aprons. No. 133,315; July 20; v. 276; p. 592.
Sears, Roebuck and Co., Chicago, Ill. Clothing for boys and young men. No. 133,317; July 20; v. 276; p. 592.
Sears, Roebuck and Co., Chicago, Ill. Rubber-soled shoes made of fabric and rubber. No. 133,316; July 20; v. 276; p. 592.
Segal Lock & Hardware Co. Inc., New York, N. Y. Keys and locks. No. 133,318; July 20; v. 276; p. 592.
Selznick Pictures Corporation, New York, N. Y. Motion-picture films. No. 133,319; July 20; v. 276; p. 592.
Service Station Supply Co., Detroit, Mich. Electric-battery-cell testers and testing instruments. No. 133,320; July 20; v. 276; p. 592.
Smith, George B., Springfield, Ill. Composition floors and stuccos of magnesite base. No. 133,321; July 20; v. 276; p. 592.
Smith, M. E., & Co., Inc., Omaha, Nebr. Women's and children's underwear, night-robes, dresses, and blouses. No. 133,322; July 20; v. 276; p. 592.
South Bend Lathe Works, South Bend, Ind. Engine-lathes. No. 133,323; July 20; v. 276; p. 592.
Standard Export Cigarette Corporation, New York, N. Y. Cigarettes. No. 133,324; July 20; v. 276; p. 592.
Standard Products Co., The, Buffalo, N. Y. Polish for floors, furniture, woodwork, and automobile-bodies. No. 133,325; July 20; v. 276; p. 592.
Steelead Skylight Co., Seattle, Wash. Skylight-bars. No. 133,326; July 20; v. 276; p. 593.
Stone, Junius H., New York, N. Y. Flexible-fabric-coating paint for acoustical work. No. 133,328; July 20; v. 276; p. 593.
Stone, Junius H., New York, N. Y. Prepared felt for construction purposes. No. 133,327; July 20; v. 276; p. 593.
Taves, C. W., Co., Chicago, Ill. Hosiery and underwear. No. 133,329; July 20; v. 276; p. 593.
Tew Patent Development Company, Seattle, Wash. Hardware and plumbing and steamfitting supplies. No. 133,330; July 20; v. 276; p. 593.
Tobacco Products Corporation, New York, N. Y. Cigarettes. No. 133,331; July 20; v. 276; p. 593.
Union Special Machine Company, Chicago, Ill. Sewing-machines and parts thereof. No. 133,332; July 20; v. 276; p. 593.
United States Spring Bed Company, The, Springfield, Mass. Extension or sliding couches. No. 133,333; July 20; v. 276; p. 593.
United Stay Company, Cambridge, Mass. Clothing. No. 133,334; July 20; v. 276; p. 593.
Universal Tire & Rubber Association, Houston, Tex. Fabric and rubber tires. No. 133,335; July 20; v. 276; p. 593.
Vincennes Furniture Mfg Co., Vincennes, Ind. Kitchen-cabinets. No. 133,336; July 20; v. 276; p. 593.
V-Plex Piston Ring Company, Chicago, Ill. Piston-rings. No. 133,337; July 20; v. 276; p. 593.
Wall, Ochs, Incorporated, Philadelphia, Pa. Spectacles, eyeglasses, barometers, &c. No. 133,338; July 20; v. 276; p. 593.
Washington Tire & Rubber Company, Spokane, Wash. Rubber and fabric vehicle-tires, tubes, boots, and tire-patches. Nos. 133,339–40; July 20; v. 276; p. 593.
Wayne Knitting Mills, Fort Wayne, Ind. Women's hosiery. No. 133,285; July 20; v. 276; p. 591.
Weyerhaeuser Forest Products, St. Paul, Minn. Construction materials. No. 133,341; July 20; v. 276; p. 593.
Wiederhold, Emil, & Bro., Columbus, Ohio. Piano and automobile polish. No. 133,342; July 20; v. 276; p. 593.
Wisconsin-Pilot Glove Company, Milwaukee, Wis. Leather and cloth gloves and mittens. No. 133,343; July 20; v. 276; p. 593.
Wise Brothers, Inc., Baltimore, Md. Clothing. No. 133,344; July 20; v. 276; p. 593.
Wrigley, E. G., & Co., Birmingham, England. Milling-cutters, reamers, &c. Nos. 133,345–6; July 20; v. 276; p. 593.
Wuest, Andrew A., Cincinnati, Ohio. Hosiery for men, women, and children. No. 133,347; July 20; v. 276; p. 593.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Denison, Alfred, & Son, Mohawk, N. Y. "Denison's Original Famous Cancer Ointment." (For an Ointment for Cancer.) No. 21,904; July 20; v. 276; p. 594.
Frank & Company, Milwaukee, Wis. "Frank's." (For Frankforts—Namely, Sausages.) No. 21,905; July 20; v. 276; p. 594.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Adels-Ribakoff Co. Inc., New York, N. Y. "Watches That Run." (For Watches.) No. 5,266; July 20; v. 276; p. 594.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Adams, C. F., Company, Erie, Pa., and Chicago, Ill. Electric clothes-washing machines. No. 127,102; July 20; v. 276; p. 574.
Alperin, Strauss & Co., New York, N. Y. Dress, negligée, and work shirts, pajamas, collars, &c. No. 132,836; July 20; v. 276; p. 586.
American Code Company, Inc., New York, N. Y. Code-books. No. 129,619; July 20; v. 276; p. 578.
American Colortype Company, New York, N. Y. Printed multicolor etchings. No. 110,063; July 20; v. 276; p. 565.
American Narrow Fabric Co., Providence, R. I. Shoe, corset, underwear and blouse lacings, galloons, and braids. No. 933,757; July 20; v. 276; p. 588.
American Safety Razor Corporation, Brooklyn, N. Y. Shaving-brushes. No. 124,827; July 20; v. 276; p. 572.
Anderson, Brooke, Chicago, Ill. Metallic fenceposts. No. 131,622; July 20; v. 276; p. 583.
Arbuthnot-Stephenson Co., Pittsburgh, Pa. Suspenders. No. 130,314; July 20; v. 276; p. 580.
Atlanta Paper Company, Atlanta, Ga. Paper bags. No. 107,742; July 20; v. 276; p. 565.
Atlantic Refining Company, The, Philadelphia, Pa. Candles. No. 131,298; July 20; v. 276; p. 581.
Atwater Kent Manufacturing Company, Philadelphia, Pa. Electrical ignition apparatus for automotive and internal-combustion engines, induction-coils, &c. No. 132,971; July 20; v. 276; p. 587.
Baum, Bey J., San Francisco, Calif. Candy. No. 131,558; July 20; v. 276; p. 582.
Beech-Nut Packing Company, Canajoharie, N. Y. Birch-beer, root-beer, and sarsaparilla. No. 128,825; July 20; v. 276; p. 577.
Blessing Mfg. Co., New York, N. Y. Electric fruit-juice extractors. No. 124,677; July 20; v. 276; p. 572.
Blum Bros., Chicago, Ill. Bathing caps, shoes, and suits, hockey-caps, hose, &c. No. 130,873; July 20; v. 276; p. 580.
Boultbee, George C., Rochester, N. Y. Non-alcoholic non-cereal maltless flavoring compounds for soft drinks. No. 130,114; July 20; v. 276; p. 579.
Brecht Candy Co., The, Denver, Colo. Candies. No. 122,756; July 20; v. 276; p. 571.
Brown, Thomas & Co. (Leicester) Limited, Leicester, England. Ladies' boots, shoes, and slippers. No. 131,254; July 20; v. 276; p. 581.
Browning & Sanders, Springfield, Mo. Trading-stamps. No. 126,921; July 20; v. 276; p. 573.
Caladero Products Company, Atascadero, Calif. The following dried commodities: Apples, apricots, peaches, &c. No. 131,381; July 20; v. 276; p. 581.
California Casing Co., San Francisco, Calif. Colorings for sausage-casings and seasonings for sausage. No. 129,042; July 20; v. 276; p. 578.
California Grape Products Corp., Bloomfield, N. J. Non-intoxicating beverages. No. 125,366; July 20; v. 276; p. 573.
Chaplin, W. H., & Co., Limited, London, England. Rum. No. 120,600; July 20; v. 276; p. 570.
Chelsea Engineering Sales Corporation, New York, N. Y. Candles, gasolene, graphite lubricant, &c. No. 130,208; July 20; v. 276; p. 580.
Cleveland Fruit Juice Company, The, Cleveland, Ohio. Root-beer and the syrup therefor. No. 129,202; July 20; v. 276; p. 578.
Cohn, Goldwater Company, Los Angeles, Calif. Boys' blouses and shirts. No. 132,510; July 20; v. 276; p. 585.
Commercial Refining Co., Charleston, S. C. Vegetable oils. No. 132,136; July 20; v. 276; p. 584.
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Dresses and aprons for women and children. No. 126,105; July 20; v. 276; p. 573.
Damhorst, C., Soda Water Co., St. Louis, Mo. Non-alcoholic non-cereal maltless beverages. No. 119,032; July 20; v. 276; p. 569.
Davis, H. E., Co., Freeport, Me. Women's leather shoes. No. 127,042; July 20; v. 276; p. 574.
Davis Sewing Machine Co., The, Dayton, Ohio. Bicycles. No. 128,667; July 20; v. 276; p. 576.
Delaware Electric & Supply Co., Wilmington, Del. Rubber, leather, canvas, and balata belting, rubber and metallic hose, &c. No. 124,086; July 20; v. 276; p. 572.
Denzer, Goodhart & Co., New York, N. Y. Men's hats. No. 119,264; July 20; v. 276; p. 569.
De Nordiske Fabriker, De-No-Fa, Aktieselskab, Christiania, Norway. Refined and unrefined fats, used as paint and varnish vehicles and driers. No. 120,986; July 20; v. 276; p. 570.
De Nordiske Fabriker, De-No-Fa, Aktieselskab, Christiania, Norway. Refined and unrefined fats, &c., used for fuel, illumination, &c. No. 120,987; July 20; v. 276; p. 570.
Deputy, E. R., Company, Inc., Lincoln, Nebr. Overalls. No. 114,152; July 20; v. 276; p. 566.
Easy Wash Laundry Tablet Co., Tyrone, Pa. Laundry tablets. No. 121,336; July 20; v. 276; p. 570.
Einhorn Bros., Philadelphia, Pa. Ladies' waists and blouses. No. 131,067; July 20; v. 276; p. 581.
Eisenger, Fr. Fils, Basel, Switzerland. Apparatus for evaporating, distilling, condensing, cooling, moistening, and improving air. No. 125,278; July 20; v. 276; p. 573.
E.-Jay-R. Mfg. Co., Baltimore, Md. Cleaning, polishing, and preserving dressings for boots, shoes, &c. No. 116,650; July 20; v. 276; p. 567.
Ellowitz, Wolf, New York, N. Y. Hair-nets. No. 133,963; July 20; v. 276; p. 588.
Elliott, Clinton, New York, N. Y. Candies. No. 121,662; July 20; v. 276; p. 570.
Ely & Walker Dry Goods Company, St. Louis, Mo. Coats, vests, and trousers. No. 131,021; July 20; v. 276; p. 581.
Ely & Walker Dry Goods Company, St. Louis, Mo. Trunks, suitcases, and traveling-bags. No. 128,628; July 20; v. 276; p. 576.
Farkas, Joseph D., New York, N. Y. Bathing-suit bags of waterproof material. No. 119,233; July 20; v. 276; p. 569.
Farmer & Breeder, Sioux City, Iowa. Periodical magazine. No. 118,378; July 20; v. 276; p. 567.
Federal Motor Truck Company, Detroit, Mich. Monthly magazine. No. 132,139; July 20; v. 276; p. 584.
Fischer, Albert C., Chicago, Ill. Adhesive cements, mastics, paper, cloth, &c. No. 130,816; July 20; v. 276; p. 580.
Fiske Brothers Refining Co., New York, N. Y. Lubricating oils and greases. No. 129,878; July 20; v. 276; p. 579.
Frank, Richard, New York, N. Y. Flavoring substance. No. 126,926; July 20; v. 276; p. 574.
Freiburger, S., & Bro. Co., Inc., Fort Wayne, Ind. Shoes. No. 132,634; July 20; v. 276; p. 586.
Freidson, Joseph, Boston, Mass. Shoes. No. 132,599; July 20; v. 276; p. 585.
French Bros. Co., Medford, Mass. Non-alcoholic non-cereal maltless beverages and syrups for making the same. No. 131,524; July 20; v. 276; p. 582.
Gelarie, Sanl, & Company, New York, N. Y. Fabric gloves and knitted underwear for men, women, and children. No. 130,216; July 20; v. 276; p. 580.
General Gas Light Co., Kalamazoo, Mich. Gas-stoves. No. 124,682; July 20; v. 276; p. 572.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 122,532; July 20; v. 276; p. 571.
Goodall Worsted Co., Sanford, Me., and New York, N. Y. Woolen, mohair, &c., piece goods. No. 116,837; July 20; v. 276; p. 567.
Goodman & Co., Brooklyn, N. Y. Youths' and boys' ready-made suits. No. 121,111; July 20; v. 276; p. 570.
Gottlieb, Joseph, New York, N. Y. Watches. No. 131,110; July 20; v. 276; p. 581.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, woolen, and cotton piece goods and combinations thereof. No. 132,095; July 20; v. 276; p. 583.
Haberdasher Co., The, New York, N. Y. Section of a monthly publication. No. 128,776; July 20; v. 276; p. 577.
Harley, E. C., Company, The, Dayton, Ohio. Coffee. No. 127,913; July 20; v. 276; p. 575.
Hinck & Muller, New York, N. Y. Cotton piece goods. No. 132,922; July 20; v. 276; p. 586.
Hinck & Muller, New York, N. Y. Cotton piece goods. No. 132,924; July 20; v. 276; p. 587.
Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 133,144; July 20; v. 276; p. 587.
Hoberg, John, Co., The, Green Bay, Wis. Toilet-paper, paper towels, tissue and wrapping paper, &c. No. 130,041; July 20; v. 276; p. 579.
Hoffeld, Henry R., Buffalo, N. Y. Patches for repairing inner tubes of tires, &c. No. 115,026; July 20; v. 276; p. 566.
Holman, A. J., Company, Philadelphia, Pa. Particular edition of the New Testament as printed and bound by us. No. 126,903; July 20; v. 276; p. 573.
Homer Furnace Company, Homer, Mich. Coal, wood, and gas furnaces. No. 124,071; July 20; v. 276; p. 572.
Hunter Mfg. & Com. Co., New York, N. Y. Cotton piece goods. No. 127,087; July 20; v. 276; p. 575.

Hy-Gn Manufacturing Co., Lynchburg, Va. Cleaning compound for rugs, blankets, clothes, &c. No. 110,887; July 20; v. 276; p. 566.
International Committee of Young Men's Christian Associations, New York, N. Y. Printed books, booklets, and pamphlets. No. 129,212; July 20; v. 276; p. 578.
Jaburg-Miller Co. Inc., New York, N. Y. Monthly periodical. No. 129,784; July 20; v. 276; p. 579.
Jackson, C. D., & Co. Inc., New York, N. Y. Marble and stone. Nos. 128,390–2; July 20; v. 276; p. 576.
Jacobson, Elias, New York, N. Y. Pearls. No. 130,596; July 20; v. 276; p. 580.
Johnson, Cowdin and Co., Inc., New York, N. Y. Publications issued semi-annually. No. 130,479; July 20; v. 276; p. 580.
Jordan Marsh Company, Boston, Mass. Girls' play-suits. No. 132,646; July 20; v. 276; p. 586.
Kalifornia Kola Company, Los Angeles, Calif. Non-intoxicating non-cereal maltless fruit beverage and syrups for making same. No. 130,598; July 20; v. 276; p. 580.
Keystone Watch Case Company, The, Philadelphia, Pa. Watchcases. No. 131,975; July 20; v. 276; p. 583.
King, C. G., & Co., Providence, R. I. Dental paste. No. 131,973; July 20; v. 276; p. 583.
Legge, Thomas H., Elmhurst, Ill. Wooden talking-machine needle. No. 131,640; July 20; v. 276; p. 583.
Levy, S. J., & Sons, New York, N. Y. Men's and boys' hosiery. No. 131,429; July 20; v. 276; p. 581.
Levy, S. J., & Sons, New York, N. Y. Women's and misses' hosiery. No. 131,430; July 20; v. 276; p. 582.
Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 109,117; July 20; v. 276; p. 565.
Magnavox Co., The, Oakland, Calif. Telephone-receivers. No. 132,879; July 20; v. 276; p. 586.
Magnus Electric Co. Inc., New York, N. Y. Connecting-plugs for electrical devices. No. 131,581; July 20; v. 276; p. 582.
Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 131,435; July 20; v. 276; p. 582.
Masury, John W., & Son, Brooklyn, N. Y. Printed publication published monthly. No. 132,442; July 20; v. 276; p. 585.
May, W. J., & Co., Limited, East Twickenham, England. Fountain-pens, steel pens, lead-pencils, writing-paper, &c. No. 123,748; July 20; v. 276; p. 571.
Mayehoff, M. N. & Co. Incorporated, Norwalk, Conn. Men's, women's, and children's silk, linen, and cotton starched and soft separate collars. No. 126,481; July 20; v. 276; p. 573.
Mayer Brothers, Chicago, Ill. Catalogue commonly known as a house organ. No. 125,901; July 20; v. 276; p. 573.
Marshall-Wells Company, Duluth, Minn. Fish rods, reels, lines, floats, &c. No. 112,954; July 20; v. 276; p. 566.
Maxine Manufacturing Company, Chicago, Ill. Ladies', misses', and children's blouses, outer waists and shirt-waists. No. 122,717; July 20; v. 276; p. 571.
McCandless, H. W., & Company, New York, N. Y., assignor to Westinghouse Lamp Company. Incandescent electric lamps. No. 120,923; July 20; v. 276; p. 570.
Mephisto Products Company, The, Fort Wayne, Ind. Rug, carpet, and tapestry cleaning compound. No. 124,223; July 20; v. 276; p. 572.
Mid West Products Company, Milwaukee, Wis. Non-alcoholic, non-cereal maltless beverage. No. 120,575; July 20; v. 276; p. 570.
Mitchell, Harry C., New York, N. Y. Outfits for teaching and practice of drawing. No. 120,010; July 20; v. 276; p. 569.
Moerlein, Christian, Brewing Co., The, Cincinnati, Ohio. Beer. No. 103,215; July 20; v. 276; p. 565.
Moerlein, Christian, Brewing Co., The, Cincinnati, Ohio. Beer. No. 103,218; July 20; v. 276; p. 565.
National Canners Association, Washington, D. C. Printed labels, pamphlets, folders, &c. No. 131,588; July 20; v. 276; p. 582.
National Cash Register Company, The, Dayton, Ohio. Combined electrical printing or marking and communicating system and apparatus and parts thereof. No. 123,752; July 20; v. 276; p. 572.
National Licorice Company, New York, N. Y. Licorice confections. No. 125,120; July 20; v. 276; p. 573.
Nusbaum, D., & Co., New York, N. Y. Ladies' knit bathing-suits and one piece union-suits. No. 129,276; July 20; v. 276; p. 578.
Ole, Oscar E., Munising, Mich. Printed post or similar cards used in notifying members of fraternal and similar organizations, of meetings, &c. No. 125,722; July 20; v. 276; p. 573.
Order of Railroad Telegraphers, The, St. Louis, Mo. Printed books, pamphlets, periodicals, &c. No. 91,480; July 20; v. 276; p. 565.
Page & Shaw, Inc., Cambridge, Mass. Candy. No. 125,969; July 20; v. 276; p. 572.
Palmer Candy Co., Sioux City, Iowa. Chocolate-covered cherries. No. 128,369; July 20; v. 276; p. 576.
Pan-American Rubber Co., The, Milwaukee, Wis. Vehicle-tires of rubber. No. 118,930; July 20; v. 276; p. 569.
Penton Publishing Company, The, Cleveland, Ohio. Daily business newspaper. No. 128,017; July 20; v. 276; p. 575.
Penton Publishing Company, The, Cleveland, Ohio. Monthly publication. No. 128,016; July 20; v. 276; p. 575.
Penton Publishing Company, The, Cleveland, Ohio. Monthly publication. No. 128,020; July 20; v. 276; p. 575.
Penton Publishing Company, The, Cleveland, Ohio. Weekly publication. No. 128,018; July 20; v. 276; p. 575.
Pick, Albert & Company, Chicago, Ill. Drinking-straws. No. 132,199; July 20; v. 276; p. 584.
Pierce Fuse Corporation, Buffalo, N. Y. Renewable fuses. No. 132,553; July 20; v. 276; p. 585.
Plant, Thomas G., Company, Boston, Mass. Shoe-laces and button-hooks. No. 132,609; July 20; v. 276; p. 585.
Price & Lee Co., The, New Haven, Conn. City guide-books. No. 123,524; July 20; v. 276; p. 571.
Priddy, Chas. W., & Company, Inc., Norfolk, Va. Fertilizer, agricultural lime, land-plaster, &c. No. 129,416; July 20; v. 276; p. 578.
Railroad Yardmasters of America, Columbus, Ohio. Monthly publication. No. 130,614; July 20; v. 276; p. 580.
Rainier Products Company, Seattle, Wash. Malt cereal beverage. No. 120,069; July 20; v. 276; p. 569.
Reinsberg, Adolph, Salt Lake City, Utah. Tires and tire-casings. No. 127,870; July 20; v. 276; p. 575.
Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del. Flat leather belting. No. 130,979; July 20; v. 276; p. 581.
Richards, William H., Knoxville, Tenn. Pneumatic cells for filling pneumatic tires. No. 129,677; July 20; v. 276; p. 578.
Richardson Dry Goods Co., St. Joseph, Mo. Embroideries, dress trimmings. No. 132,365; July 20; v. 276; p. 585.
Ridgway Company, The, New York, N. Y. Monthly magazine. No. 123,587; July 20; v. 276; p. 571.
Roberts, Charles D., Pittsburgh, Pa. Metallic pen-points. Nos. 128,739–40; July 20; v. 276; p. 577.
Robertson Lubricants Company, Philadelphia, Pa. Lubricating oils and greases. No. 132,809; July 20; v. 276; p. 586.
Rosner & Kanner, New York, N. Y. Chocolates. No. 118,707; July 20; v. 276; p. 568.
Rotary Tire and Rubber Co., Zanesville, Ohio. Rubber vehicle-tires and inner tubes. No. 118,275; July 20; v. 276; p. 567.
Rothkopf Morris, New York, N. Y. Underwear. No. 128,701; July 20; v. 276; p. 576.
Saberton Mfg. Co., Tampa, Fla. Soap. No. 128,867; July 20; v. 276; p. 577.
Sangoff, Peter, Worcester, Mass. Antiskidding rubber tires. No. 118,355; July 20; v. 276; p. 567.
Sani-Komb Corporation, The, New York, N. Y. Combs. No. 122,946; July 20; v. 276; p. 587.
Saniphone Company, The, Baltimore, Md. Mouthpiece attachments for the transmitters of telephones. No. 133,384; July 20; v. 276; p. 587.
Scoville, M. G., Sons Company, Ogden, Utah. Brooms. No. 118,841; July 20; v. 276; p. 568.
Scoville, M. G., Sons Company, Ogden, Utah. Brooms. No. 118,850; July 20; v. 276; p. 568.
Scoville, M. G. Sons Company, Ogden, Utah. Brooms. No. 118,853; July 20; v. 276; p. 568.
Sears, Roebuck and Co., Chicago, Ill. Overalls. No. 132,662; July 20; v. 276; p. 586.
Security Cement & Lime Co., Hagerstown, Md. Calcareous composition for soil improvement. No. 119,089; July 20; v. 276; p. 569.
Seller, Karl, & Sons, Philadelphia, Pa. Smoked fish. No. 131,504; July 20; v. 276; p. 582.
Shoecraft Shop, Inc., The, New York, N. Y. Men's, women's, and children's boots, shoes, slippers, and sandals. No. 124,768; July 20; v. 276; p. 572.
Simon Millinery Supply Co., San Francisco, Calif. Ladies' trimmed, tailored, and sport hats. Nos. 132,614–5; July 20; v. 276; p. 585.
Società Ceramica Richard-Ginori, Milan, Italy. Hones made of corindone, (corundum.) No. 112,445; July 20; v. 276; p. 566.
Società Ceramica, Richard-Ginori, Milan, Italy. Hones made of carborundum. No. 112,446; July 20; v. 276; p. 566.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Blackings, polishes, and creams for all kinds of leather articles. No. 118,619; July 20; v. 276; p. 567.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Liquid polish for cleaning and polishing all metals. No. 118,616; July 20; v. 276; p. 567.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Paste or polish for stoves, ranges, and pig-iron ware. No. 118,626; July 20; v. 276; p. 568.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Paste or product for polishing metals. Nos. 118,623–4; July 20; v. 276; p. 568.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating-grease. No. 132,883; July 20; v. 276; p. 586.
Stanislawski, Bronislaw J., Conshohocken, Pa. Waterproof shoe-paste. No. 128,174; July 20; v. 276; p. 575.

Staybestos Manufacturing Company, Philadelphia, Pa. Brake-linings. No. 131,603; July 20; v. 276; p. 582.
Stein, A., & Company, Chicago, Ill. Publication issued quarterly. No. 128,473; July 20; v. 276; p. 576.
Stevens, Isaac F., Nashua, N. H. Refrigerators. No. 127,221; July 20; v. 276; p. 574.
Stowell Manufacturing Company, Jersey City, N. J. Roofing-shingles. No. 133,634; July 20; v. 276; p. 587.
Summers, Charles G., & Co., Inc., Baltimore, Md. Canned fruits and vegetables. No. 118,452; July 20; v. 276; p. 567.
Surety Tire & Rubber Company, St. Louis, Mo. Inner tubes for pneumatic tires. No. 120,436; July 20; v. 276; p. 569.
Symma-Brownell Manufacturing Company, Sioux Falls, S. D. Spark-plugs. No. 133,379; July 20; v. 276; p. 587.
Texas Company, The, Houston, Tex., and New York, N. Y. Kerosene. Nos. 132,152–4; July 20; v. 276; p. 584.
Textile Publishing Company, New York, N. Y. Buyer's directory. No. 128,906; July 20; v. 276; p. 577.
Textile Publishing Company, New York, N. Y. Section of a periodical. No. 127,018; July 20; v. 276; p. 574.
Textile Publishing Company, New York, N. Y. Section of a periodical. No. 128,907; July 20; v. 276; p. 577.
Thomson-Diggs Co., The, Sacramento, Calif. Copper trolling-lines, spinners, fish-spears, &c. No. 121,795; July 20; v. 276; p. 571.
Tiffany and Company, New York, N. Y. Printed books and visiting-cards, menus, &c. No. 128,253; July 20; v. 276; p. 575.
Tiona Refining Company, Philadelphia, Pa. Lubricating-oils. No. 132,669; July 20; v. 276; p. 586.
Trippe, Barker & Co., New York, N. Y. Nainsooks, long-cloths, and cambrics in the piece. No. 132,827; July 20; v. 276; p. 586.
Turnbull Electric Manufacturing Company, Inc., New York, N. Y. Tungsten and nitrogen incandescent electric lamps. No. 121,850; July 20; v. 276; p. 571.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Soap-dispensers. No. 131,889; July 20; v. 276; p. 583.
United & Globe Rubber Company, Trenton, N. J. Brake-linings. No. 121,683; July 20; v. 276; p. 570.
United Drug Company, Boston, Mass. Castile soap. No. 127,619; July 20; v. 276; p. 574.
United Kingdom Tobacco Co., Limited, The, Bishopsgate, London, England. Cigarettes. No. 111,891; July 20; v. 276; p. 566.
Vacuum Oil Company, New York, N. Y. Lubricating-oils. No. 133,033; July 20; v. 276; p. 587.
Vanity Fair Silk Mills, Reading, Pa. Silk cloth in the piece. No. 124,675; July 20; v. 276; p. 572.
Vic Manufacturing Corporation, Carlstadt, N. J. Safety-razors and parts thereof and safety-razor blades. No. 133,117; July 20; v. 276; p. 587.
Victory Hammered Piston Ring Company, Newark, N. J. Piston-rings. No. 127,021; July 20; v. 276; p. 574.
Vogel, Gustave, St. Louis, Mo. Hair-nets. No. 110,228; July 20; v. 276; p. 565.
Walsh, Jerome A., New York, N. Y. Non-alcoholic maltless beverage. No. 129,199; July 20; v. 276; p. 578.
Warrensburg Canning Company, Warrensburg, Ill. Canned sugar-corn. No. 123,377; July 20; v. 276; p. 571.
Weidemann, George, Company, The, Newport, Ky. Non-beverage grain-alcohol. No. 127,878; July 20; v. 276; p. 575.
West End Brewing Co., Utica, N. Y. Non-alcoholic non-cereal maltless beverages and syrups for making the same. No. 129,992; July 20; v. 276; p. 579.
West End Brewing Co., Utica, N. Y. Non-alcoholic non-cereal maltless beverages and syrups for making the same. Nos. 129,998–9; July 20; v. 276; p. 579.
Western Oil Refining Co., Indianapolis, Ind. Lubricating-oil. No. 130,077; July 20; v. 276; p. 579.
Westinghouse Lamp Company, a Corporation of Pennsylvania. (See McCandless, H. W., & Company, assignors.)
White, A. J., Limited, New York, N. Y. Paper handkerchiefs. No. 131,685; July 20; v. 276; p. 583.
Wine Brothers and Company, Detroit, Mich. Trousers. No. 128,810; July 20; v. 276; p. 577.
Withers, William A., Elizabethtown, Pa. Shoes for men and boys. No. 118,947; July 20; v. 276; p. 569.
Worth-More Polish Company, The, Chicago, Ill. Liquid polish for furniture, automobiles, floors, and the like. No. 130,736; July 20; v. 276; p. 580.
Young, Giles T., Philadelphia, Pa. Hair-straightener paste. No. 128,379; July 20; v. 276; p. 576.
Zellerbach Paper Company, San Francisco, Calif. House organ appearing monthly and presenting paper news, &c., and ideas pertinent to the printing trade. No. 127,147; July 20; v. 276; p. 574.
Zobel, Ernst, Company, Inc., Brooklyn, N. Y. Turpentine. No. 131,616; July 20; v. 276; p. 583.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF JULY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A-N Company, The. (See Nash, R. J., and Alexander, assignors.)
Aagaard, Carl L., Rockford, Ill. Hand scraping-tool. No. 1,345,658; July 6; v. 276; p. 65.
Aaron, Solomon E., Boston, Mass. Davit. No. 1,345,821; July 6; v. 276; p. 97.
Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heater. No. 1,345,730; July 6; v. 276; p. 79.
Abbott, Lyle S., River Edge, N. J., assignor to The Improved Equipment Company, New York, N. Y. Process of and apparatus for producing hydrogen. No. 1,345,905; July 6; v. 276; p. 114.
Adair, David G., Ionia, Mich. Milk-crate. No. 1,345,979; July 6; v. 276; p. 129.
Adams-Campbell Company, The. (See Holdaway, Hall H., assignor.)
Adams, Leonard, Buffalo, N. Y. Annular steam rotary motor. No. 1,345,526; July 6; v. 276; p. 39.
Adams, Ray P., Lohrville, Iowa. Valve-cap for pneumatic tires. No. 1,346,073; July 6; v. 276; p. 147.
Adicks, Henry, Duttons Landing, Calif. Vaporizer for liquid fuels. No. 1,345,822; July 6; v. 276; p. 97.
Adriance Machine Works, Inc. (See Calleson, Amos, assignor.)
Advance Machine Co. (See Antoine, A. D., and Travis, assignors.) (Reissue.)
Aeromarine Plane & Motor Co. (See Robinson, Hugh A., assignor.)
Ahrens, Charles W., New York, N. Y. Collar-supporter. No. 1,345,823; July 6; v. 276; p. 97.
Ainge, George H., Springfield, Ohio. Tool for testing spark-plugs. No. 1,345,537; July 6; v. 276; p. 3.
Aktiebolaget Svenska, Kullagerfabriken. See Wingquist S. G., and Fjellman, assignors.)
Alberger Gas Engine Company. (See Bogart, John A., assignor.) (Reissue.)
Alexander Brothers. (See Barker, A. E., assignor.)
Alexander, George H. (See Nash, R. J., and Alexander.)
Alexis, Henry F., and M. Olson, Fishlake, Minn. Pump-jack. No. 1,345,980; July 6; v. 276; p. 129.
Allen, John D. (See Chandler, Lee, assignor.)
Allen, Newton, Lyons, Oreg. Saw-gage. No. 1,345,339; July 6; v. 276; p. 3.
Alphin, Gilbert E., Norwood, N. C. Curtain-rod and shade-roller support. No. 1,345,340; July 6; v. 276; p. 3.
Alphy, Harry, *et al.* (See Tullis, John T., assignor.)
Ambrose, Robert L., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mounting for drills. No. 1,345,731; July 6; v. 276; p. 79.
American Metal Cap Company. (See Hammer, Charles, assignor.)
American Optical Company. (See Haynes, Charles M., assignor.)
American Potash Corporation. (See Charlton, Harry W., assignor.)
American Vulcanized Fibre Co. (See Pierce, James F., assignor.)
Anchor Cap & Closure Corporation. (See White, William P., assignor.
Anders, Hanns R., Perth Amboy, N. J., assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Method of and apparatus for treating goods with fluids. No. 1,345,341; July 6; v. 276; p. 3.
Anderson, Carl E., Maywood, Ill. Window-frame. No. 1,345,471; July 6; v. 276; p. 28.
Anheuser, Ernst, Racine, Wis. File or brush holder. No. 1,345,472; July 6; v. 276; p. 29.
Antoine, Alfred D., Chicago, and C. C. Travis, Evanston, Ill., assignors to Advance Machine Co., Chicago, Ill. Check-detector for check-actuated machines. (Reissue.) No. 14,905; July 6; v. 276; p. 153.
Appleman, John P. (See Cissel, G. W., and Appleman.)
Arnold, John O., Sheffield, England. High-speed steel. No. 1,345,732; July 6; v. 276; p. 79.
Atkinson, Lloyd S., Los Angeles, Calif. Tire for vehicle-wheels. No. 1,346,074; July 6; v. 276; p. 148.
Augustine, William F., Chicago, Ill. Hot-water and ice bandage. No. 1,345,906; July 6; v. 276; p. 114.
Automatic Electric Company. (See Jacobsen, Emil, assignor.)
Ayres, Charles S., Riverton, N. J. Sight-indicator for dispensing-pumps. No. 1,345,733; July 6; v. 275; p. 79.
Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
Baer, Sylvan T., New York, N. Y. Sanitary appliance for telephone-transmitters, &c. No. 1,345,734; July 6; v. 276; p. 80.
Bailey, Charles A., Chicago, Ill. Coupling. No. 1,345,735; July 6; v. 276; p. 80.
Bailey, Robert R., Chicago, Ill. Cigar-drill. No. 1,345,736; July 6; v. 276; p. 80.
Bailey, Robert R., Chicago, Ill. Razor-blade holder. No. 1,345,737; July 6; v. 276; p. 80.
Baker, Cloice B., assignor of one-half to W. Bawden, St. Louis, Mo. Handrail-column. No. 1,345,338; July 6; v. 276; p. 3.
Balsa Refrigerator Corporation. (See Kramer, Gustav A., assignor.)
Baltensperger, Elizabeth A. (See Thomas, August, assignor.)
Bancroft, Samuel M. (See Evans, W. C., and Bancroft.)
Bank, Isaac, Hammonton, N. J. Sleeve-former. No. 1,345,739; July 6; v. 276; p. 80.
Barker, Alpheus E., assignor to Alexander Brothers, Philadelphia, Pa. Machine for making round belting. No. 1,345,907; July 6; v. 276; p. 114.
Barker, Eugene G., Glenwood, Iowa. Corn-harvester. No. 1,345,527; July 6; v. 276; p. 39.
Barnard, Charles S., assignor to The Bassick Co., Bridgeport, Conn. Caster-socket. No. 1,345,908; July 6; v. 276; p. 114.
Barniak, Felika, Rosemont, W. Va. Railway-tie. No. 1,345,572; July 6; v. 276; p. 48.
Barr Company, The. (See Barr, Samuel C., assignor.)
Barr, Samuel C., Chillicothe, Ohio, assignor to The Barr Company. Eye-testing mechanism. No. 1,345,573; July 6; v. 276; p. 48.
Bass, Ernest C., New York, N. Y. Gun-camera. No. 1,345,981; July 6; v. 276; p. 129.
Bassick Co., The. (See Barnard, Charles S., assignor.)
Batchelder, Frank R. (See Lethern, Albert A., assignor.)
Bawden, William. (See Baker, Cloice B., assignor.)
Bayles, Robert A., Stockton, Calif. Ditch-digger. No. 1,346,075; July 6; v. 276; p. 148.
Bayless, Isabel L., Washington, D. C. Cooking device. No. 1,345,824; July 6; v. 276; p. 97.
Beall, Walter W., Philadelphia, Pa. Strainer. No. 1,345,342; July 6; v. 276; p. 4.
Beau, Mathew, Port Colborne, Ontario, Canada. Sleigh. No. 1,345,825; July 6; v. 276; p. 97.
Becker, Robert A., assignor to C. Tremain, Poughkeepsie, N. Y. T. Y. and L connector. No. 1,345,982; July 6; v. 276; p. 130.
Bedard, Joseph, Columbus, Ohio. Protector for windshields. No. 1,345,826; July 6; v. 276; p. 98.
Beddingfield, John A., assignor of one-half to R. D. Feagin, Macon, Ga. Automobile-tire rim. No. 1,345,659; July 6; v. 276; p. 65.
Beecher, Milton F. (See Purdy, R. C., and Beecher.)
Beithon, Gilbert G., Bismarck, N. D. Toy. No. 1,345,343; July 6; v. 276; p. 4.
Belknap, Charles B. (See McOmber, Loren W., assignor.)
Bell, William E., assignor to The Bell Wrench Company, Tulsa, Okla. Ratchet pipe-wrench. No. 1,345,983; July 6; v. 276; p. 130.
Bell Wrench Company, The. (See Bell, William E., assignor.)
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,345,576; July 6; v. 276; p. 49.
Benham, Edgar M. (See Benham, William T. and E. M.)
Benham, Edgar M., Norwood, Ohio, assignor, by mesne assignments, to The Mosler Lock Company, Cincinnati, Ohio. Combination-lock. No. 1,345,574; July 6; v. 276; p. 49.
Benham, William T. and E. M., Norwood, assignors, by mesne assignments, to The Mosler Lock Company, Cincinnati, Ohio. Combination-lock. No. 1,345,575; July 6; v. 276; p. 49.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Maxwell W., *et al.* (See Hadrich, George, assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Water-tight connection for electrical conductors. No. 1,345,473; July 6; v. 276; p. 29.
Bennett, Charles H., Mount Morris, N. Y. Toothpick-dispensing device. No. 1,345,984; July 6; v. 276; p. 130.
Berkshire, William A., Ocheyedan, Iowa. Silo-brace. No. 1,345,985; July 6; v. 276; p. 130.
Betts, Albert, *et al.* (See Tullis, John T., assignor.)

Betzoldt, Theodore C., *et al.* (See Hadrich, George, assignor.)

Biddison, Pascal M., Columbus, and H. T. Boyd, Homer Ohio. Distilling petroleum. No. 1,345,740; July 6 v. 276; p. 80.

Bischoff, Herman, assignor to Defiance Button Machin Co., New York, N. Y. Plaiting-machine. No. 1,345,474 July 6; v. 276; p. 29.

Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Lamp-shade holder. No. 1,345,741; July 6 v. 276; p. 81.

Blackstone, George M. (See Carter, Frank and E., as signors.)

Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet guide adjustment. No. 1,345,742; July 6; v. 276; p. 81

Blandford, George G., Herring Neck, Newfoundland. Adjustable bracket. No. 1,345,344; July 6; v. 276 p. 4.

Blount, Harry, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Means for grinding and slotting carbon disks and the like. No. 1,345,743; July 6; v. 276; p. 81.

Blume, Milton E., New York, N. Y. Copy-holder for typewriters. No. 1,345,986; July 6; v. 276; p. 130.

Bocking, Frederick W., Rifle, Colo. Cushion-support. No. 1,345,987; July 6; v. 276; p. 131.

Boehm, Rudolph A., assignor to Rickert-Shafter Company, Erie, Pa. Collapsible tap. No. 1,345,744; July 6; v. 276; p. 81.

Bogart, John A., Port Chester, assignor to Alberger Gas Engine Company, Buffalo, N. Y. Expansion-joint. (Reissue.) No. 14,906; July 6; v. 276; p. 153.

Bohannon, David D., Berkeley, Calif. Resilient wheel. No. 1,345,827; July 6; v. 276; p. 98.

Bolger, Robert S. (See Masury, A. F., and Bolger.)

Bollinger, George W., Columbus, Ohio. Baking apparatus. No. 1,346,076; July 6; v. 276; p. 148.

Boswell, Fletcher O., Philadelphia, Pa. Automobile-steering-gear lock. No. 1,345,828; July 6; v. 276; p. 93.

Boulton, William W. (See McClure, R. A., and Boulton.)

Bowness, George A., Summerside, Prince Edward Island, Canada. Harness. No. 1,345,577; July 6; v. 276; p. 49.

Boyd, Hugh T. (See Biddison, P. M., and Boyd.)

Boyd, Wyatt, Dayton, Ohio. Gas-engine. No. 1,345,345; July 6; v. 276; p. 4.

Boyle, Albert J., Baltimore, Md. Joint for concrete pipe. No. 1,345,829; July 6; v. 276; p. 98.

Boyle, John B., Crozet, Va. Attachment for rocking-chairs. No. 1,345,745; July 6; v. 276; p. 82.

Bradley Pulverizer Company. (See Gibson, W. A., and Needham, assignors.)

Brager, Arvid, and O. Lee, Kinosee, Alberta, Canada. Skee-brake. No. 1,345,988; July 6; v. 276; p. 131.

Brennan, Lawrence, Red Deer, Alberta, Canada. Operating mechanism for pumps. No. 1,345,909; July 6; v. 276; p. 115.

Brewster, Theodore A., St. Louis, Mo. Street-car truck. No. 1,345,528; July 6; v. 276; p. 40.

Brian, James C., Maxbass, N. D. Seat for agricultural implements. No. 1,345,830; July 6; v. 276; p. 98.

Brock, Frank P. (See Redman, L. V., Weith, and Brock.)

Brown Barotype Company. (See Brown, Herbert E., assignor.)

Brown, Edward R., Boston, Mass. Apparatus for cooling and dispensing beverages. No. 1,345,746; July 6; v. 276; p. 82.

Brown, Herbert E., Sterling, Ill., assignor, by mesne assignments, to Brown Barotype Company, Chicago, Ill. Barotype-machine. No. 1,345,660; July 6; v. 276; p. 65.

Brown, James D., Glasgow, Scotland. Display-rack. No. 1,345,831; July 6; v. 276; p. 98.

Brown, Michael, New York, N. Y. Sadiron. No. 1,345,989; July 6; v. 276; p. 131.

Brown, Orlando W., Jr., Sanford, Me. Stepladder. No. 1,345,990; July 6; v. 276; p. 131.

Brown, Patrick B., Shenandoah, Pa. Power mine-shovel. No. 1,345,991; July 6; v. 276; p. 131.

Brundidge, J. P., *et al.* (See Tullis, John T., assignor.)

Bryden, James. (See Jones, A. W., Bryden, and Mowbray.)

Buckham, George T. (See Dawson, A. T., and Buckham.)

Buford, John H., New Hope, Ala. Furrow-cleaner. No. 1,345,346; July 6; v. 276; p. 4.

Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-centering mechanism. No. 1,345,529; July 6; v. 276; p. 40.

Bulford, Frederick J. S., Maidenhead, England. Artificial limb. No. 1,345,661; July 6; v. 276; p. 65.

Burnett, Ira A., Chicago, Ill. Equestrian toy vehicle. No. 1,345,578; July 6; v. 276; p. 49.

Burnett, Ira A., Chicago, Ill. Moistening attachment for dental-engine handpieces. No. 1,345,579; July 6; v. 276; p. 50.

Burofsky, Joseph, Philadelphia, Pa. Lifting apparatus. No. 1,345,992; July 6; v. 276; p. 131.

Burton, John L., Hamlet, N. C. Switch-lock. No. 1,345,580; July 6; v. 276; p. 50.

Busby, Lu Ella, Caldwell, Kans. Heater for poultry-houses. No. 1,345,581; July 6; v. 276; p. 50.

Bushnell, Alvah, Jr., Philadelphia, Pa. Card-holder for envelops and wallets. No. 1,345,993; July 6; v. 276; p 132.

Butchart, William A., Denver, Colo. Tilting mechanism for concentrating-tables. No. 1,345,662; July 6; v. 276; p. 66.

Butterworth, Joseph A. (See Purnell, W. H., and Butterworth.)

Byrd, William, H., Sour Lake, Tex. Fire-extinguishing device. No. 1,346,099; July 6; v. 276; p. 153.

Cabell, Philip M., New York, N. Y. Concrete-reinforcement. No. 1,345,663; July 6; v. 276; p. 66.

Cadillac Motor Car Company. (See Klethler, Frederick, assignor.)

Cadillac Motor Car Company. (See Schwarze, Herman, assignor.)

Cady, Elisha J., Oak Park, Ill. Machine for saturating paper-stock. No. 1,345,747; July 6; v. 276; p. 82.

Calleson, Amos, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Machine for making articles of sheet metal. No. 1,345,664; July 6; v. 276; p. 66.

Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,345,582; July 6; v. 276; p. 50.

Calthrop's, E. R., Aerial Patents Limited. (See Calthrop, Everard R., assignor.)

Campbell, Thomas M., Dallas, Tex. Weather-strip. No. 1,345,832; July 6; v. 276; p. 99.

Cappelli, Vincenzo, Rome, Italy. Apparatus for roasting and preparing coffee in cups. No. 1,345,477; July 6; v. 276; p. 29.

Caproni, Gianni, Milan, Italy. Landing-carriage for flying-machines. No. 1,345,833; July 6; v. 276; p. 99.

Caraballo, Antonio M. (See Gunturiz y Santoz, Nicolas, assignor.)

Carbon Products Company. (See Rendall, George F., assignor.)

Carborundum Company, The. (See Linbarger, Silas C., assignor.)

Carburetor Lock Corporation, The. (See Evans, W. C., and Bancroft, assignors.)

Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Pneumatic-tire casing and making same. No. 1,345,994; July 6; v. 276; p. 132.

Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Apparatus for making pneumatic-tire casings. No. 1,345,995; July 6; v. 276; p. 132.

Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Apparatus for use in the manufacture of pneumatic-tire casings. No. 1,345,996; July 6; v. 276; p. 132.

Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Casing for pneumatic tires. No. 1,345,997; July 6; v. 276; p. 132.

Carlisle, Fred B., Andover, Mass., assignor to J. M. Gilbert, New York, N. Y. Casing for pneumatic tires and making same. No. 1,345,998; July 6; v. 276; p. 132.

Carlstrand, Charles J., Minneapolis, Minn. Knockdown Christmas tree. No. 1,345,475; July 6; v. 276; p. 29.

Carpenter, Lee R., Cleveland, Ohio. Internal-combustion engine. No. 1,345,530; July 6; v. 276; p. 40.

Carpenter, Paul. (See Ellis, Ridsdale, assignor.)

Carter, Evershed. (See Carter, Frank and E.)

Carter, Frank and E., assignors of one-third to G. M. Blackstone, Stamford, England. Means for igniting the charge in internal-combustion engines. No. 1,345,999; July 6; v. 276; p. 133.

Carter, James T., Baltimore, Md. Melting-pot and metal-injecting mechanism for type-casting machines. No. 1,346,077; July 6; v. 276; p. 148.

Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Portable pumping apparatus. No. 1,345,531; July 6; v. 276; p. 40.

Carver, Don C., Cambridge, Ohio. Automatic safety gas-valve. No. 1,346,000; July 6; v. 276; p. 133.

Casey, Thomas B., Boston, Mass. Internal-combustion engine. No. 1,346,001; July 6; v. 276; p. 133.

Cass, Joseph, Delaware township, Delaware county, Iowa. Drag for planters. No. 1,345,532; July 6; v. 276; p. 41.

Chandler, Lee, assignor of one-half to J. D. Allen, Oklahoma, Okla. Apparatus for painting smokestacks. No. 1,345,834; July 6; v. 276; p. 99.

Chaney, Lee F., Springfield, Ohio. Filling thermometer-tubes and the like. No. 1,345,347; July 6; v. 276; p. 4.

Charlton, Harry W., Jones Point, N. Y., assignor to American Potash Corporation. Producing alkali-metal hydrates. No. 1,346,002; July 6; v. 276; p. 133.

Chase Companies, The. (See Henger, Edwin W., assignor.)

Cherry, Louis B., Kansas City, Mo. Electrical apparatus for the electrochemical treatment of vapors. No. 1,345,431; July 6; v. 276; p. 20.

Chesebrough, Robert A. (See Ofeldt, Ernest T., assignor.)

Church, Albert E., New Britain, Conn. Drill-press chuck. No. 1,345,583; July 6; v. 276; p. 50.

Chytracek, Joseph, Clifton Mills, W. Va. Parachute. No. 1,345,533; July 6; v. 276; p. 41.

Cirelli, Francesco, Philadelphia, Pa. Time-controlled starting mechanism. No. 1,345,584; July 6; v. 276; p. 50.

Cissel, George W., and J. P. Appleman, Washington, D. C. Automobile-windshield screen. No. 1,345,585; July 6; v. 276; p. 51.

Clapp, Albert L., Marblehead, Mass. Waterproof paper and producing same. No. 1,345,476; July 6; v. 276; p. 29.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,345,348; July 6; v. 276; p. 5.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,345,349; July 6; v. 276; p. 5.

Clayton, William G., Upper Hawthorn, near Melbourne, Victoria, Australia. Fuel-economizing device for internal-combustion engines. No. 1,345,432; July 6; v. 276; p. 21.

Cleland, Carl D., Jean, Nev. Spark-plug. No. 1,346,003; July 6; v. 276; p. 133.

Clément, Giulio, Milan, Italy, assignor to Clement Gold Magneto Company. Apparatus for separating or concentrating fine metals from pulverized material. No. 1,345,835; July 6; v. 276; p. 99.

Clement Gold Magneto Company. (See Clément, Giulio, assignor.)

Cliffe, Eliza T. S., Mansfield, Ohio. Vacuum cleaning apparatus. No. 1,345,478; July 6; v. 276; p. 30.

Clover Electric Corporation. (See Clover, Howard K., assignor.)

Clover, Howard K., assignor to Clover Electric Corporation, Los Angeles, Calif. Electric faucet. No. 1,345,748; July 6; v. 276; p. 82.

Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa. Method and apparatus for cooling ingot-molds. No. 1,345,749; July 6; v. 276; p. 82.

Coblentz, William W., Washington, D. C. Radiophone. No. 1,345,586; July 6; v. 276; p. 51.

Colburn Machine Tool Company. (See Head, Ernest C., assignor.)

Colley, Ralph, Tonica, Ill. Disk-holder. No. 1,346,004; July 6; v. 276; p. 134.

Collier, William H., Yatesville, Ga. Submarine. No. 1,345,836; July 6; v. 276; p. 100.

Combustion Engineering Corporation. (See Van Brunt, John, assignor.)

Commonwealth Steel Company. (See Sheehan, William M., assignor.)

Conn, C. G., Ltd. (See Gulick, Edward J., assignor.)

Cooperman, Louis, New York, N. Y. Crown articulator. No. 1,345,433; July 6; v. 276; p. 21.

Coppage, Benjamin D., Wilmington, Del. Driving mechanism for paper-making machines. No. 1,345,479; July 6, v. 276; p. 30.

Cornell, Charles H., Valentine, Nebr. License-card. No. 1,346,005. July 6; v. 276; p. 134.

Corning, Douglas D., Lynn, Mass. Automatic material-dispensing device. No. 1,245,350; July 6; v. 276; p. 5.

Couch, Forrest J., assignor to Rochester Washing Machine Corporation, Rochester, N. Y. Shock-absorbing clutch. No. 1,346,078; July 6; v. 276; p. 149.

Cozart, Wallace A., Oklahoma, Okla. Wall-bracket. No. 1,345,910; July 6; v. 276; p. 115.

Crane, John T., Maywood, Ill. Line-shaft bearing. No. 1,345,534; July 6; v. 276; p. 41.

Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)

Crosby, Edwin L., and O. J. Marshick, Detroit, Mich. Journaled cable-clamp. No. 1,345,351; July 6; v. 276; p. 5.

Crouse-Hinds Company. (See Bissell, Carl H., assignor.)

Crouse-Hinds Company. (See Hastings, H. P., and Dossert, assignors.)

Cuendet, Maurice, Cordex par Vich, Switzerland. Vise. No. 1,345,665; July 6; v. 276; p. 66.

Cummins, William R., Glasgow, Scotland. Internal-combustion engine. No. 1,345,911; July 6; v. 276; p. 115.

Curtis, Stanley R., Royal Oak, Mich. Drinking-fountain. No. 1,346,006; July 6; v. 276; p. 434.

Cushion Spring Engineering Corporation. (See Hunt, Ozello R., assignor.)

Cutting, Fulton, Tuxedo Park, N. Y., and B. Washington, Cambridge, Mass. Wireless telegraphy. No. 1,345,352; July 6; v. 276; p. 5.

Cyclone Manufacturing Company, The. (See Speicher, Daniel E., assignor.)

Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Valve and means for cooling same. No. 1,345,535; July 6; v. 276; p. 41.

Dahne, Julius A., Stillwater, Minn. Scale. No. 1,345,587; July 6; v. 276; p. 51.

Daniels, Frank A., Pittsburgh, and G. Schuster, Carrick borough, Pa. Rabbeting apparatus. No. 1,346,079; July 6; v. 276; p. 149.

Darlington, Philip J., assignor to The Roto Company, Hartford, Conn. Tube-cleaner. No. 1,345,480; July 6; v. 276; p. 30.

Davis, Frederick W., Dayton, Ohio. Self-serving store. No. 1,345,481; July 6; v. 276; p. 30.

Davis, Frederick W., Dayton, Ohio. Water-station. No. 1,345,482; July 6; v. 276; p. 30.

Davis, John B., Springfield, assignor to Gilbert & Parker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. No. 1,345,837; July 6; v. 276; p. 100.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,345,536; July 6; v. 276; p. 41.

Dawson Manufacturing Company. (See Dawson, Sidney, assignor.)

Dawson, Sidney, assignor to Dawson Manufacturing Company, Chicago, Ill. Grease-cup. No. 1,345,434; July 6; v. 276; p. 21.

De Aguiar, Pedro P., Habana, Cuba. Condiment-holder. No. 1,346,007; July 6; v. 276; p. 134.

De Beaumont, Norman, New York, N. Y. Belt. No. 1,345,750; July 6; v. 276; p. 83.

Defiance Button Machine Co. (See Bischoff, Herman, assignor.)

De Leeuw, Joseph, The Hague, Netherlands. Keyless lock. No. 1,346,080; July 6; v. 276; p. 149.

Demling, John W. (See Franck, Val F., assignor.)

Devarco, Paul, West Hoboken, N. J. Reversible broom and the like. No. 1,345,353; July 6; v. 276; p. 6.

Devey, Walter A., American Fork, Utah. Automatic weighing apparatus. No. 1,345,838; July 6; v. 276; p. 100.

Dewrance, John, London, England. Multiple-way stop-valve. No. 1,345,751; July 6; v. 276; p. 83.

Diebold, Alfred J., Pittsburgh, Pa. Telephone-receiver holder. No. 1,345,839; July 6; v. 276; p. 100.

Diederich, Hunt, New York, N. Y. Electric lamp and fan. No. 1,345,752; July 6; v. 276; p. 83.

Di Maggio, Vincenzo, New York, N. Y. Shoe-support. No. 1,346,008; July 6; v. 276; p. 134.

Dio-Kads Corporation. (See Diodato, Frank A., assignor.)

Diodato, Frank A., North Collins, assignor to Dio-Kads Corporation, Buffalo, N. Y. Automatic or safety train-stop mechanism. No. 1,345,753; July 6; v. 276; p. 83.

Dion, Amédée. (See Dion, Bruno and A.)

Dion, Bruno and A., Ste. Therese de Blainville, Quebec, Canada. Band-cutter and feeder. No. 1,345,588; July 6; v. 276; p. 51.

Doerflinger, William F., Arrochar, N. Y. Lacquer enamel. No. 1,345,354; July 6; v. 276; p. 6.

Donavon, Joseph P., Lompoc, Calif. Insulating material. No. 1,345,666; July 6; v. 276; p. 66.

Dossert, John J. (See Hastings, H. P., and Dossert.)

Dougan, Kennedy, Minneapolis, Minn. Wheat-steamer. No. 1,345,840; July 6; v. 276; p. 100.

Doughty, Herman W., Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company, Newton Upper Falls, Mass. Signal-recorder. No. 1,345,355; July 6; v. 276; p. 6.

Draper Corporation. (See Stone, Melvin L., assignor.)

Drone, Clarence J., Minneapolis, Minn. Tire. No. 1,346,081; July 6; v. 276; p. 149.

Dubilier, William, New York, N. Y. Condenser and making same. No. 1,345,754; July 6; v. 276; p. 84.

Duncan, Raymond, New York, N. Y. Stop mechanism for talking-machines. No. 1,346,082; July 6; v. 276; p. 149.

Dunhill, Alfred, London, England. Receptacle for cigar or cigarette holders. No. 1,345,356; July 6; v. 276; p. 6.

Dunn, Edwin S. (See Leisen, F. J., and Dunn.)

Durkee, Charles S., Grasmere, N. Y. Automatic self-contained fire-extinguisher. No. 1,345,435; July 6; v. 276; p. 21.

Eastman, James H., Detroit, Mich. Electrotherapeutic apparatus. No. 1,345,537; July 6; v. 276; p. 41.

Edgar, Robert A., assignor of one-fourth to H. T. Rentfroe and one-eighth to J. A. Sellers, Carlyle, Kans. Car-door. No. 1,345,755; July 6; v. 276; p. 84.

Edison Electric Appliance Company. (See Richardson, Earl H., assignor.)

Edling, Matthias, and W. Falk, Iron River, Mich. Resilient wheel. No. 1,345,912; July 6; v. 276; p. 115.

Ekstrom, Ernest S., Rosholt, S. D. Latch. No. 1,345,913; July 6; v. 276; p. 116.

Elgin Gas Motor Company. (See Thompson, Herbert L., assignor.)

Ellis, Carleton, Montclair, N. J. Hydrogenation. No. 1,345,589; July 6; v. 276; p. 52.

Ellis, James M., Canton, Ill. Equalizer. No. 1,346,097; July 6; v. 276; p. 152.

Ellis, Ridsdale, Oak Park, Ill., assignor to P. Carpenter, Glenview, Ill. Heater for cooling systems. No. 1,345,923; July 6; v. 276; p. 117.

Emco Manufacturing Company. (See Taber, George H., assignor.)

Emerson Phonograph Company. (See Emerson, Victor H., assignor.)

Emerson, Victor H., New York, N. Y., assignor to Emerson Phonograph Company, Inc., Talking-machine. No. 1,345,756; July 6; v. 276; p. 84.

Emmert, William H., Chicago, Ill. Game device. No. 1,345,914; July 6; v. 276; p. 116.

Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Propulsion of submarine vessels. No. 1,345,757; July 6; v. 276; p. 84.

Engel, August F., Defiance, Ohio. Tire-holder. No. 1,346,083; July 6; v. 276; p. 150.

Engelbrecht, Julius, Boone, Colo. Carrying-truck. No. 1,345,667; July 6; v. 276; p. 66.

Estes, Jerry M., Breckinridge, Okla. Deraller. No. 1,346,009; July 6; v. 276; p. 135.

Evans, William, Uvalde, Tex. Key-Ring Clip. No. 1,345,357; July 6; v. 276; p. 6.

Evans, William C., Sedalia, Mo., and S. M. Bancroft, Wichita, Kans., assignors, by mesne assignments, to The Carburetor Lock Corporation. Carbureter-lock. No. 1,345,841; July 6; v. 276; p. 101.
Ewry, Charles S., Portland, Ind. Egg-tray. No. 1,345,483; July 6; v. 276; p. 31.
Fair, George A., Detroit, Mich. Window. No. 1,345,915; July 6; v. 276; p. 116.
Fairbanks, Ephraim W., San Diego, Calif. Automobile-wheel. No. 1,346,064; July 6; v. 276; p. 150.
Fairchild, Harry P., New York, N. Y. Magazine-pencil. No. 1,345,436; July 6; v. 276; p. 21.
Fairchild, Samuel P. Mountain Home, Idaho. Auxiliary car-step. No. 1,345,668; July 6; v. 276; p. 66.
Falk, William. (See Edling, M., and Falk.)
Farnham, Dana C. (See Hiner, O. W., and Farnham.)
Farnham, Eli A., Jr. (See Hiner, O. W., and Farnham.)
Fayant, J. B. (See Manker, Charles C., assignor.)
Feagin, R. Douglas. (See Beddingfield, John A., assignor.)
Fehr, Frank, Louisville, Ky. Process and apparatus for extracting alcohol from liquids. No. 1,345,437; July 6; v. 276; p. 21.
Feiden, Peter, Jr., St. Joseph, Mo. Wheel-guard. No. 1,345,916; July 6; v. 276; p. 116.
Fishbaugh, William, Newark, Ohio. Vulcanizer. No. 1,346,085; July 6; v. 276; p. 150.
Fisher, Arthur W., Wilkinsburg, and C. S. Snavely, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Electrical coil. No. 1,345,484; July 6; v. 276; p. 31.
Fisher, Louis M., Clarksdale, Mo. Automatic automobile-jack. No. 1,345,842; July 6; v. 276; p. 101.
Fitzgerald, Frank E., Watertown, N. Y. Trousers-support. No. 1,345,917; July 6; v. 276; p. 116.
Fjellman, Bengt W. (See Wingquist, S. G., and Fjellman.)
Fluitkote Company, The. (See Overbury, Frederick C., assignor.)
Foggie, William, Brooklyn, N. Y. Manicuring device. No. 1,345,918; July 6; v. 276; p. 116.
Folsom, Arthur V., Jacksonville, Fla. Solar steam-generator. No. 1,345,758; July 6; v. 276; p. 84.
Foltz, Ira W., Chicago, Ill. Arch for furnaces. No. 1,346,010; July 6; v. 276; p. 135.
Ford, Matthew A., Rockford, Ill. Gridiron. No. 1,345,590; July 6; v. 276; p. 52.
Ford, Robert H., *et al.* (See Priest, H. M., Ford, Greenabaum, and Richardson.)
Fortier, John J., and J. K. Sherwood, Grand Rapids, Mich.; said Sherwood, assignor to said Fortier. Oiler for loose pulleys. No. 1,345,843; July 6; v. 276; p. 101.
Fortuna-Werke, Spezialmaschinenfabrik, G. m. b. H. (See Loose, Johannes, assignor.)
Foster Brothers Manufacturing Company. (See Foster, William B., assignor.)
Foster-Johnson Reamer Company. (See Johnson, William B., assignor.)
Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Cushion for sliding-side cribs. No. 1,345,485; July 6; v. 276; p. 31.
Franc, Joseph M. E., St. Vallier, France. Disk wheel for motor-cars. No. 1,345,759; July 6; v. 276; p. 85.
Franck, Val F., assignor of one-half to J. W. Deming, Louisville, Ky. Rail-clamp. No. 1,345,844; July 6; v. 276; p. 101.
Fricker, Anthony, Cleveland, Ohio. Snowplow. No. 1,345,438; July 6; v. 276; p. 22.
Frye, Edwin P., Milburn, W. Va. Invalid's bed. No. 1,345,760; July 6; v. 276; p. 85.
Fuel Economy Company. (See Livingstone, Frank M., assignor.)
Fuller, Silas S., Lewiston, Me. Clamping device. No. 1,345,358; July 6; v. 276; p. 6.
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Fulton, James J., Guerneville, Calif. Centrifugal clothes-washing machine. No. 1,345,761; July 6; v. 276; p. 85.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Encased radiator. No. 1,345,591; July 6; v. 276; p. 52.
Funk, Carlyle B., Chicago, Ill. Hydraulic transmission. No. 1,346,086; July 6; v. 276; p. 150.
Furry, Samuel H., Lancaster, Ohio. Road-crossing. No. 1,346,011; July 6; v. 276; p. 135.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current motor. No. 1,345,538; July 6; v. 276; p. 42.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,345,539; July 6; v. 276; p. 42.
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,345,540; July 6; v. 276; p. 42.
Gabbett-Fairfax, Hugh W., London, England. Automatic firearm. No. 1,346,012. July 6; v. 276; p. 135.
Gabelman, Charles, assignor to Packard Motor Car Company, Detroit, Mich. Grinding-machine. No. 1,345,919; July 6; v. 276; p. 117.
Galbraith, Hugh, Wahiawa, Oahu, Hawaii. Violin attachment. No. 1,346,013; July 6; v. 276; p. 135.
Garrett, Walter B., and H. M. Hoffman, Carrollbersville, Mo. Lock-operated circuit-closer. No. 1,346,087; July 6; v. 276; p. 150.
Garwitt, Louis, New York, N. Y. Shawl-muffler. No. 1,346,014; July 6; v. 276; p. 135.
Gates, Louis W., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Windshield-wiper. No. 1,345,541; July 6; v. 276; p. 42.
Gamewell Fire Alarm Telegraph Company, The. (See Doughty, Herman W., assignor.)
Gardner, Charles F. (See Cartwright, Ernest O., assignor.)
Génault, Albert, Courbevoie, France. Fuel-heater. No. 1,345,762; July 6; v. 276; p. 85.
General Chemical Company. (See Kyrides, Lucas P., assignor.)
General Electric Company. (See Abbott, Charles C., assignor.)
General Electric Company. (See Emmet, William L. R., assignor.)
General Electric Company. (See Kubo, Masakichi, assignor.)
General Electric Company. (See Minor, W. F., Keller, and Ralph, assignors.)
General Electric Company. (See Porter, Willard E., assignor.)
General Electric Company. (See Ruder, William E., assignor.)
General Electric Company. (See Stephens, Howard O., assignor.)
Gentile, Frank T., assignor of one-half to K. M. Kleeman, Canton, Ohio. Automatic sprinkler. No. 1,345,592; July 6; v. 276; p. 52.
Gibbons, Francis J., Wolverhampton, England. Metal window frame and sash of the sliding-sash type. No. 1,345,669; July 6; v. 276; p. 67.
Gibson, William A., and C. E. Needham, Allentown, Pa., assignors to Bradley Pulverizer Company, Boston, Mass. Air-separator. No. 1,346,015; July 6; v. 276; p. 136.
Giddens, Francis, Ottawa, Ontario, Canada. Incubator. No. 1,345,593; July 6; v. 276; p. 52.
Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
Gilbert, Joseph M. (See Carlisle, Fred B., assignor.)
Glenn, George M. (See Hormel, George W., assignor.)
Glennon, Edward, Brooklyn, N. Y. Flush-valve. No. 1,345,920; July 6; v. 276; p. 117.
Godefroy, Marie L., Paris, France. Exposure-meter. No. 1,346,088; July 6; v. 276; p. 151.
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Goertz, Frederick, Newark, and R. Whitcomb, Elizabeth, N. J., assignors to August Goertz and Company. Container. No. 1,345,359; July 6; v. 276; p. 5.
Goertz, Frederick, Newark, and R. Whitcomb, Elizabeth, N. J. Container. No. 1,345,360; July 6; v. 276; p. 7.
Gold, Anna, Fredericksburg, Tex. Combination-garment. No. 1,345,763; July 6; v. 276; p. 85.
Goldberg, Solomon H., assignor to The West Coast Roofing and Manufacturing Company, Chicago, Ill. Producing roofing material. No. 1,345,922; July 6; v. 276; p. 117.
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Gomsrud, Axel, Portland, Oreg. Concrete construction. No. 1,346,016; July 6; v. 276; p. 136.
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Good Inventions Co. (See Lucke, C. E., and Good, assignors.)
Good, John. (See Lucke, C. E., and Good.)
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Heating apparatus. No. 1,345,361; July 6; v. 276; p.
Goodman, Milton, New York, N. Y. Toy book. No. 1,346,017; July 6; v. 276; p. 136.
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Green, Harry J., Sebring, Ohio. Mantle-ring-forming machine. No. 1,345,845; July 6; v. 276; p. 101.
Green, Herman H., Salt Lake City, Utah. Vehicle-tire rim. No. 1,345,670; July 6; v. 276; p. 67.
Greenabaum, Alexander L. (See Priest, H. M., Ford, Greenabaum, and Richardson.)
Greenawalt, William E., Denver, Colo. Extracting metals from their ores. No. 1,345,846; July 6; v. 276; p. 102.
Greenfield Tap and Die Corporation. (See Wells, Frank O., assignor.)
Greening, Eldridge, *et al.* (See Tullis, John T., assignor.)
Greenleaf, George E., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Headstock-bearing for lathes. No. 1,345,671; July 6; v. 276; p. 67.
Griffith, Albert W., Pittsburgh, Pa. Gearing. No. 1,345,847; July 6; v. 276; p. 102.
Grob, Arnold, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Apparatus for producing pressed-metal articles. No. 1,345,594; July 6; v. 276; p. 53.
Grower, George G., Ansonia, Conn. Registering apparatus. No. 1,346,100; July 6; v. 276; p. 153.
Grubb, Thomas, Johnston City, Ill. Mail-handling apparatus. No. 1,346,018; July 6; v. 276; p. 136.
Gueldenhaar, Bernhard F. C., Flanagan, Ill. Seeder. No. 1,345,362; July 6; v. 276; p. 7.
Guldager, Walter E. (See Jantsch, H., and Guldager.)
Gullick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Key-mount for wind musical instruments. No. 1,345,486; July 6; v. 276; p. 31.

Gullick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Die for making valve-casings for wind-musical-instrument valves. No. 1,345,921; July 6; v. 276; p. 117.
Gunturiz y Santos, Nicolás, assignor of one-half to A. M. Caraballo, Sagua la Grande, Santa Clara, Cuba. Juice-extractor. No. 1,345,963; July 6; v. 276; p. 126.
Gwyer, Herbert J., Yonkers, N. Y. Refrigerator construction and removable leg. No. 1,345,764; July 6; v. 276 p. 86.
Haag, Philip, Brooklyn, N. Y. Attachment for shoes. No. 1,346,019; July 6; v. 276; p. 137.
Habbart, John, Prairie du Chien, Wis. Grain and hay stacker. No. 1,346,020; July 6; v. 276; p. 137.
Hadrich, George, Highland Park, assignor of one-third to T. C. Betzoldt and one-third to M. W. Benjamin, Detroit, Mich. Spark-plug. No. 1,345,765; July 6; v. 216; p. 86.
Haerle, Hans. (See Reavell, W., and Haerle.)
Hager, William R., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Method of and apparatus for supplying heated liquids. No. 1,345,924; July 6; v. 276; p. 118.
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Haley, Robert E. (See Van Vleet, C. W., and Haley.)
Hall, Claud D. (See Lee, R., and Hiatt, assignors.)
Halpern, Carl. (See Zeidler, F. W., and Halpern.)
Ham, William D., Chicago, Ill. Concrete-road-building machine. No. 1,345,925; July 6; v. 276; p. 118.
Hamel Shoe Machinery Company. (See Pettengill, George M., assignor.)
Hamilton, Robert, and E. J. Reimel, Birmingham, Ala. Drag-bar. No. 1,345,439; July 6; v. 276; p. 22.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Bottle-closure. No. 1,345,363; July 6; v. 276; p. 7.
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Hammond, Laurens, Detroit, Mich. Method and apparatus for indicating heat. No. 1,345,767; July 6; v. 276; p. 86.
Hand, Erle H., Baltimore, Md. Tone-arm for talking-machines. No. 1,345,487; July 6; v. 276; p. 31.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Throttle-valve. No. 1,345,364; July 6; v. 276; p. 7.
Hardy, Emery E., Brooklyn, N. Y. Roller-skate. No. 1,345,848; July 6; v. 276; p. 102.
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Harris, Arthur W., Sleepy Eye, Minn. Carton-packing mechanism. No. 1,345,926; July 6; v. 276; p. 118.
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Hartshorn, Willis N., Racine, Wis. Drying, mixing, and kneading machine. No. 1,345,542; July 6; v. 276; p. 43.
Haslett, John T., Winchester, Kans. Wrench. No. 1,345,850; July 6; v. 276; p. 102.
Hassel, William G., Waterbury, Conn. Fuse remover and placer. No. 1,346,022; July 6; v. 276; p. 137.
Hasselstrom, Ivar S., Chicago, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind. Feeding device for punch-presses. No. 1,346,089; July 6; v. 276; p. 151.
Hassler, Paul M., and A. H. Neller, assignors to The Louden Machinery Company, Fairfield, Iowa. Track for overhead carriers. No. 1,345,851; July 6; v. 276; p. 102.
Hastings, Harold P., and J. J. Dossert, assignors to Crouse-Hinds Company, Syracuse, N. Y. Electrical appliance. No. 1,345,768; July 6; v. 276; p. 86.
Hastings, Ruben C. M., assignor to The International Telephone Company, Columbus, Ohio. Telephonic call system. No. 1,345,852; July 6; v. 276; p. 103.
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Hayes, Walter H. London, England. Internal-combustion engine. No. 1,345,927; July 6; v. 276; p. 118.
Haynes, Charles M., Chillicothe, Ohio, assignor to American Optical Company, Southbridge, Mass. Finger-piece mounting for eyeglasses. No. 1,345,488; July 6; v. 276; p. 32.
Head, Ernest C., Rochester, N. Y., assignor to Colburn Machine Tool Company, Franklin, Pa. Operating device for the turrets of machine-tools. No. 1,345,770; July 6; v. 276; p. 87.
Heinrich, Frank J., Yakima, Wash. Bearing-puller. No. 1,346,023; July 6; v. 276; p. 137.
Henckler, William, St. Louis, Mo. Automobile-lock. No. 1,345,672; July 6; v. 276; p. 67.
Henger, Edwin W., assignor to The Chase Companies, Inc., Waterbury, Conn. Terminal post for battery-carbons. No. 1,345,853; July 6; v. 276; p. 103.
Hewett, John R., Schenectady, N. Y. Breach-mat. No. 1,345,771; July 6; v. 276; p. 87.
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Hibner, Philip D., Seattle, Wash. Throttle-valve. No. 1,345,772; July 6; v. 276; p. 87.
Hibner, Philip D., Seattle, Wash. Rotary engine. No. 1,345,773; July 6; v. 276; p. 88.
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Hill, Robert R., Verona, N. J. Spark-plug. No. 1,345,440; July 6; v. 276; p. 22.
Hills, George T., Chicago, Ill. Universal lock and release for pulleys. No. 1,345,673; July 6; v. 276; p. 68.
Hinds, Sherwood, Fort Wayne, Ind. Curb-pump. No. 1,345,774; July 6; v. 276; p. 88.
Hiner, Ora W., and D. C. and E. A. Farnham, Jr., Butler, Ind. Animal-feeder. No. 1,346,024; July 6; v. 276; p. 137.
Hiner, Ora W., and D. C. and E. A. Farnham, Jr., Butler, Ind. Automatic stock-feeder. No. 1,346,025; July 6; v. 276; p. 138.
Hiner, Ora W., D. C. and E. A. Farnham, Jr., Butler, Ind. Swine-feeding apparatus. No. 1,346,026; July 6; v. 276; p. 138.
Hiner, Ora W., D. C. and E. A. Farnham, Jr., Butler, Ind. Automatic animal-feeder. No. 1,346,027; July 6; v. 276; p. 138.
Hintz, Ernst, Wiesbaden, and H. Schulz, Worms, Germany. Drying patent-leather. No. 1,346,091; July 6; v. 276; p. 151.
Hisamoto, Junzo, Nagoya City, assignor to Toyo-Kagaku-Yakin-Kabushiki-Kaisha (The Oriental Chemical Metallurgic Company, Limited), Tokyo, Japan. Drawing refractory metal. No. 1,345,441; July 6; v. 276; p. 22.
Hobbs, Clarence W., deceased, Worcester, Mass.; C. W. Hobbs, Jr., and S. T. Hobbs, administrators. Safety device. No. 1,345,442; July 6; v. 276; p. 22.
Hobbs, Clarence W., Jr., *et al.*, administrators. (See Hobbs, Clarence W.)
Hobbs, Samuel T., *et al.*, administrators. (See Hobbs, Clarence W.)
Hodgkinson, Francis, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. No. 1,345,674; July 6; v. 276; p. 68.
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Hoffman, Rudolph, Kankakee, assignors to Sears, Roebuck and Company, Chicago, Ill. Oil-stove. No. 1,345,775; July 6; v. 276; p. 88.
Hofsté, Maarten, Amsterdam, Netherlands. Production of textile fibrous material. No. 1,345,776; July 6; v. 276; p. 88.
Holdaway, Hall H., Los Angeles, Calif., assignor, by mesne assignments, to The Adams-Campbell Company, Incorporated. Vehicle-tire. No. 1,345,777; July 6; v. 276; p. 88.
Holdsworth, Oliver, Oakland, Calif. Window-sash lock. No. 1,345,928; July 6; v. 276; p. 119.
Holland, Walter J., Fairoaks, assignor of one-fourth to P. M. Pike and A. R. Johnson, San Francisco, Calif. Drill-bit. No. 1,345,854; July 6; v. 276; p. 103.
Hood, Henry, Philadelphia, Pa. Screwdriver. No. 1,345,443; July 6; v. 276; p. 23.
Hookham, George. (See Hatfield, H. S., and Hookham.)
Hopp, Hermann and L., New York, N. Y. Price-marker system. No. 1,346,028; July 6; v. 276; p. 138.
Hopp, Geo. (See Hopp, Hermann and L.)
Hormel, George W., assignor to G. M. Glenn, Wichita, Kans. Stovepipe-lock. No. 1,345,778; July 6; v. 276; p. 89.
Horton, Bryson D., Detroit, Mich. Hole-closure. No. 1,345,489; July 6; v. 276; p. 32.
Horvitz, Aaron, Chicago, Ill. Burglar-protector. No. 1,345,444; July 6; v. 276; p. 23.
Hosmer, Arthur, Chicago, Ill. Overalls. No. 1,345,779; July 6; v. 276; p. 89.
Hotaling, Omar J., East Orange, N. J. Newspaper-vending machine. No. 1,345,855; July 6; v. 276; p. 103.
Hovland, Henry B., Zumbrota, Minn. Apparatus for metallurgical and other purposes. No. 1,345,596; July 6; v. 276; p. 53.
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Hoy, John E., assignor of one-half to R. P. Place, Midland, Mich. Puzzle. No. 1,345,490; July 6; v. 276; p. 32.
Hubbard, Richard W., Ashtabula, Ohio. Hinge. No. 1,346,029; July 6; v. 276; p. 139.
Hughes, Lionel W., Port Said, Egypt. Packing-case. No. 1,345,856; July 6; v. 276; p. 103.
Hula, Joseph, Irving, Kans. Container-holder. No. 1,345,857; July 6; v. 276; p. 104.
Hull, Salmon Mfg. Co. (See Salmon, Edward W., Jr., assignor.)
Hullinger, Lynus E., Brooklyn, assignor to Pomeroy Company, New York, N. Y. Artificial-limb lock. No. 1,346,092; July 6; v. 276; p. 151.
Humason, Granville A., assignor of one-half to J. W. Parker, Houston, Tex. Pump. No. 1,345,491; July 6; v. 276; p. 32.
Hunt, Ozello R., assignor to Cushion Spring Engineering Corporation, Chicago, Ill. Spring structure. No. 1,345,780; July 6; v. 276; p. 89.
Hurley, Justin T., New York, N. Y. Adding-machine. No. 1,345,781; July 6; v. 276; p. 89.
Hurst, Henry, *et al.* (See McNerny, Clyde J., assignor.)
Hutchinson, Job, Brooklyn, N. Y. Changeable indicator. No. 1,345,675; July 6; v. 276; p. 68.

Hutchison, Norman F., Balwyn, near Melbourne, Victoria, Australia. File for loose sheets. No. 1,345,365; July 6; v. 276; p. 8.

Huth, John H., Philadelphia, Pa. Pipe connection and making same. No. 1,345,543; July 6; v. 276; p. 43.

Hydraulic Pressed Steel Company, The. (See Grob, Arnold, assignor.)

Improved Equipment Company, The. (See Abbott, Lyle S., assignor.)

Ingersoll-Rand Company. (See Ambrose, Robert L., assignor.)

Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)

Ingle, Arthur H., and W. E. Ward, Rochester, N. Y.; said Ward assignor to said Ingle. Apron mechanism for lathes. No. 1,345,676; July 6; v. 276; p. 68.

International Motor Company. (See Masury, A. F., and Bolger, assignors.)

International Telephone Company, The. (See Hastings, Ruben C. M., assignor.)

Irvin, Roy. (See Kohman, H. A., and Irvin.)

Irvine, Robin H., Bay City, Mich. Tree-sawing machine. No. 1,345,492; July 6; v. 276; p. 32.

Isko Company, The. (See Yates, Charles E., assignor.)

Jackson, Walter M., New York, N. Y. Slitting attachment for cigars. No. 1,345,677; July 6; v. 276; p. 68.

Jacobsen, Emil, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,346,093; July 6; v. 276; p. 152.

Jacobson, Eric A., Lindsay, Ontario, Canada. Turbine water-wheel. No. 1,345,493; July 6; v. 276; p. 33.

Jacquemin, Auguste F., assignor to Rogers Fibre Company, Kennebunk, Me. Doffer mechanism for counter-molding machines. No. 1,346,030; July 6; v. 276; p. 139.

Jakob, Victor. (See Mizer, J. J., and Jakob.)

Jantsch, Hugo, and W. E. Guldager, Detroit, Mich. Perpendicularity-indicator. No. 1,345,597; July 6; v. 276; p. 53.

Jenkins, Charles, Delevan, N. Y. Potato-grader. No. 1,345,858; July 6; v. 276; p. 104.

Jippson, Adolf B., assignor to The Ohio Blower Company, Cleveland, Ohio. Furniture. No. 1,345,366; July 6; v. 276; p. 8.

Johnson, Albert H., assignor to National Electrical Supply Company, Washington, D. C. Machine for crimping wire. No. 1,345,445; July 6; v. 276; p. 23.

Johnson, Albert O., Northwood, Iowa. Adjustable showcase. No. 1,345,367; July 6; v. 276; p. 8.

Johnson, Alvin R., *et al.* (See Holland, Walter J., assignor.)

Johnson, Howard A., Norfolk, Va. Shaft-coupling. No. 1,345,446; July 6; v. 276; p. 23.

Johnson, Howard A., Norfolk, Va. Rolling door. No. 1,345,447; July 6; v. 276; p. 23.

Johnson, Oscar W., and R. Milne, assignors to Ward Pump Company, Rockford, Ill. Sprayer. No. 1,345,598; July 6; v. 276; p. 83.

Johnson, Samuel P., Longacre, W. Va. Automatic mechanism for stopping trains. No. 1,345,599; July 6; v. 276; p. 54.

Johnson, William B., Elkhart, Ind., assignor to Foster-Johnson Reamer Company. Adjustable reamer. No. 1,345,929; July 6; v. 276; p. 119.

Jones, Arthur W., Stepps, J. Bryden, Cartcosh, and A. J. H. Mowbray, Stirling Scotland. Grip for handling slabs, bars, billets, or other material. No. 1,345,930; July 6; v. 276; p. 119.

Jones, Edward C. (See Jones, J. L. and E. C.)

Jones, John L. and E. C., Kansas City, Mo. Silo. No. 1,345,544; July 6; v. 276; p. 43.

Josias, Nathan, Philadelphia, Pa. Combination saw-table and single-spindle shaper. No. 1,346,031; July 6; v. 276; p. 139.

Josler, Angelo, assignor of one-half to F. P. Smith, Chicago, Ill. Window-guard. No. 1,346,094; July 6; v. 276; p. 152.

Karl, Andrew J., and B. F. Webb, Sistersville, W. Va. Transmission-gearing. No. 1,345,494; July 6; v. 276; p. 33.

Karles, Michael D., Delray, Mich. Pneumatic tool. No. 1,345,495; July 6; v. 276; p. 33.

Kasley, Alexander T., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Co. Mounting for turbine-buckets. No. 1,345,678; July 6; v. 276; p. 69.

Kaufman, Adolph G., New York, N. Y. Vaporizer-guide. No. 1,345,448; July 6; v. 276; p. 24.

Keeler, John M., assignor of one-half to C. R. Welsh, New Brighton, Pa. Adjustable spigot or faucet. No. 1,345,496; July 6; v. 276; p. 33.

Keeling, Fred C., Rockford, Ill. Artificial bait. No. 1,345,600; July 6; v. 276; p. 54.

Keim, Ivan N., Mount Holly, N. J. Cushion-tire. No. 1,346,032; July 6; v. 276; p. 139.

Keith, John W., and R. W. Williams, Hornbeak, Tenn. Harvest-sack. No. 1,346,033; July 6; v. 276; p. 139.

Kell, Jacob, Newark, N. J. Center-point device for lathes, &c. No. 1,345,368; July 6; v. 276; p. 8.

Keller, John A., Bay Shore, N. Y. Clothing-ticket. No. 1,345,782; July 6; v. 276; p. 89.

Keller, Phil C. (See Minor, W. F. Keller, and Rolph.)

Kelly, Ernest B., Chicago, Ill. Thumb-sucking preventer. No. 1,345,783; July 6; v. 276; p. 90.

Kelso, Robert B., Seattle, Wash. Dinner-pail. No. 1,346,034; July 6; v. 276; p. 140.

Kempin, Richard A., Rorschach, Switzerland. Toothed change-gear for driving metal-working machines. No. 1,345,497; July 6; v. 276; p. 33.

Kepler, Clell S., Keosauqua, Iowa. Cold-pack cooking device. No. 1,345,601; July 6; v. 276; p. 54.

Kerr, George W., Racine, Wis. Curtain-window. No. 1,345,602; July 6; v. 276; p. 54.

Kerr, Howard J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Economizer for transverse drum boilers. No. 1,345,369; July 6; v. 276; p. 9.

Kerr, John J., Lincoln, England. Manufacture of propellers. No. 1,345,859; July 6; v. 276; p. 104.

Keystone Manufacturing Company. (See Marks, Isidore, assignor.)

Kiehler, Frederick, assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,345,931; July 6; v. 276; p. 119.

Kimble, Austin, assignor to Marathon Electric & Manufacturing Co., Wausau, Wis. Dynamo-electric machine. No. 1,345,370; July 6; v. 276; p. 9.

Kirk, Robert H., Newcastle-upon-Tyne, England. Mold for plastic and similar substances. No. 1,345,932; July 6; v. 276; p. 120.

Kitson, Lawrance E. (See Hayes, T. R., and Kitson.)

Kitt, William C., Cincinnati, Ohio. Box. No. 1,345,784; July 6; v. 276; p. 90.

Kleeman, Karl M. (See Gentile, Frank T., assignor.)

Klingbeil, Edward G., Lander, Wyo. Heating-drum. No. 1,345,603; July 6; v. 276; p. 54.

Knight, George B., Camden, N. J. Head-guard attachment for caps. No. 1,345,933; July 6; v. 276; p. 120.

Knox, Walter F., Port Huron, Mich. Mixing-faucet. No. 1,345,934; July 6; v. 276; p. 120.

Kobert, Frank P., Amityville, N. Y. Electric riveting-machine. No. 1,345,679; July 6; v. 276; p. 69.

Koch, William J., La Crosse, Wis. Adjustable backrest. No. 1,345,785; July 6; v. 276; p. 90.

Koechlin, Albert G., Basel, Switzerland. Weft-spool changer for weaving-looms. No. 1,346,095; July 6; v. 276; p. 152.

Kofstad, Otto, Warroad, Minn. Mold for hollow walls. No. 1,345,371; July 6; v. 276; p. 9.

Kohl, Ferdinand, Plymouth, Wis. Bow-facing oar. No. 1,345,860; July 6; v. 276; p. 104.

Kohman, Henry A., and R. Irvin, Pittsburgh, Pa. Manufacture of leavened bread. No. 1,345,680; July 6; v. 276; p. 69.

Kostka, John, Cleveland, Ohio. Cigar and cigarette box. No. 1,345,935; July 6; v. 276; p. 120.

Kramer, Gustav A., assignor, by mesne assignments, to Baisa Refrigerator Corporation, New York, N. Y. Lubricant-leakage-preventing device for compressors. No. 1,345,372; July 6; v. 276; p. 9.

Kratochvil, Edwin J., Bancroft, Nebr. Air-washer. No. 1,345,681; July 6; v. 276; p. 69.

Kring, Olof O. (See Stålhane, O., and Kring.)

Kubo, Masakichi, Tokyo, Japan, assignor to General Electric Company. Making cores for electrical apparatus. No. 1,345,786; July 6; v. 276; p. 90.

Kuryla, Michael H., Park City, Utah, assignor to The Merrill Company, San Francisco, Calif. Filtering apparatus. No. 1,345,861; July 6; v. 276; p. 104.

Kuryla, Michael H., Park City, Utah, assignor to The Merrill Company, San Francisco, Calif. Removable closure. No. 1,345,862; July 6; v. 276; p. 105.

Kyrides, Lucas P., assignor to General Chemical Company, New York, N. Y. Producing halogenated homologues of benzene. No. 1,345,373; July 6; v. 276; p. 9.

Ladd, George T., Company. (See Remmen, Jorgen, assignor.)

La Hodny, William, Buffalo, N. Y. Polishing-machine. No. 1,345,374; July 6; v. 276; p. 9.

Larsen, Louis, Brooklyn, assignor, to Sundh Electric Company, New York, N. Y. Electromagnet. No. 1,345,450; July 6; v. 276; p. 24.

Larsen, Martin. (See Zeuthen, A. C. A., and Larsen.)

Leck, John, Santa Ana, Calif. Harvester for beans and the like. No. 1,345,936; July 6; v. 276; p. 120.

Lee, Oscar. (See Brager, A., and Lee.)

Lee, Richard, and C. A. Hiatt, assignors, of one-half to C. D. Hall, St. Louis, Mo. Stop-indicator. No. 1,345,937; July 6; v. 276; p. 121.

Lee, William A., Muskogee, Okla. Automobile-signal. No. 1,345,863; July 6; v. 276; p. 105.

Le Francois, William, Pawtucket, R. I. Valve. No. 1,345,682; July 6; v. 276; p. 69.

Leifer, Charles E., Little Rock, Ark. Lock. No. 1,345,787; July 6; v. 276; p. 90.

Leisen, Francis J., Metuchen, N. J., and E. S. Dunn, Huntington, W. Va. Tunnel-kiln. No. 1,345,605; July 6; v. 276; p. 54.

Lemay, Henry A., Brooklyn, N. Y. Splicing-machine. No. 1,345,375; July 6; v. 276; p. 10.

Leonard, Caswell L., Corinth, Miss. Bread-slicing board. No. 1,345,376; July 6; v. 276; p. 10.

Leonard, James P., Joliet, Ill. Dental appliance. No. 1,345,606; July 6; v. 276; p. 55.

Lester, Fred E., near San Jose, Calif. Machine for preparing fruit for drying. No. 1,345,607; July 6; v. 276; p. 55.

Lethern, Albert A., London, England, assignor, by mesne assignments, to F. R. Batchelder. Carrier for ammunition. No. 1,345,864; July 6; v. 276; p. 105.

Lewis, Samuel R., El Paso, Tex. Crown-setter. No. 1,345,608; July 6; v. 276; p. 55.

Libbey-Owens Sheet Glass Company, The. (See Owens, Michael J., assignor.)

Lidseen, Gustave, Chicago, Ill. Lever operating mechanism for oil-cans. No. 1,345,788; July 6; v. 276; p. 90.

Lindbarger, Silas C., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory article and making same. No. 1,345,377; July 6; v. 276; p. 10.

Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich. Wheel-retainer. No. 1,345,545; July 6; v. 276; p. 43.

Linga, Torbjörn, Winthrop Harbor, Ill. Carbureter. No. 1,345,546; July 6; v. 276; p. 43.

Linley, Charles M., London, England. Apparatus for playing a game of skill with a captive ball. No. 1,345,789; July 6; v. 276; p. 91.

Lipar, Frank, Trommald, Minn. Cuspidor. No. 1,345,609; July 6; v. 276; p. 55.

Lippert, Samuel, Cleveland, Ohio. Thermally-controlled float. No. 1,345,938; July 6; v. 276; p. 121.

Little, Robert H., assignor to U. S. Sanitary Specialties Corporation, Chicago, Ill. Dispensing-machine. No. 1,345,865; July 6; v. 276; p. 105.

Livingston, John G. (See Newton, William J., assignor.)

Livingstone, Frank M., assignor to Fuel Economy Company, Springfield, Mass. Gaseous mixer device. No. 1,345,791; July 6; v. 276; p. 91.

Lloyd, Converse W., Chicago, Ill., assignor to The Sani-Fold Company of California. Folding toothbrush. No. 1,345,939; July 6; v. 276; p. 121.

Locomobile Company of America, The. (See Roos, Delmar G., assignor.)

Lodge Fume Company, Limited, The. (See Lodge, Lionel, assignor.)

Lodge, Lionel, assignor to The Lodge Fume Company, Limited, Birmingham, England. Electrical deposition of particles from gases. No. 1,345,790; July 6; v. 276; p. 91.

Loeb, Henry, *et al.* (See McNerny, Clyde J., assignor.)

Longstreth, John W., Waynesburg, Pa. Fire-extinguisher. No. 1,346,035; July 6; v. 276; p. 140.

Looney, William E., Detroit, Mich. Internal-combustion engine. No. 1,345,940; July 6; v. 276; p. 121.

Loose, Johannes, assignor to Fortuna-Werke, Spezialmaschinenfabrik, G. m. b. H., Stuttgart-Cannstatt, Germany. Leather-paring machine. No. 1,345,941; July 6; v. 276; p. 121.

Lorenson, Lorens C., assignor to C. H. Petry, Hudson, N. Y. Bagging-machine. No. 1,345,866; July 6; v. 276; p. 105.

Louden Machinery Company, The. (See Hassler, P. M., and Neller, assignors.)

Lovelace, Paul U., Clinton, Okla. Grinding-tool. No. 1,346,036; July 6; v. 276; p. 140.

Lucke, Charles E., New York, and J. Good, assignors to Good Inventions Co., Brooklyn, N. Y. Liquid-fuel carburation. No. 1,345,378; July 6; v. 276; p. 10.

Lundberg, Fred, Chicago, Ill. Lock for burial-caskets. No. 1,345,451; July 6; v. 276; p. 24.

McArthur, Warren, Jr., Phoenix, Ariz. Radiator-cap. No. 1,345,379; July 6; v. 276; p. 10.

McAvoy, John A., assignor to McAvoy Manufacturin Company, Chicago, Ill. Imitation-beveled-glass panel. No. 1,345,792; July 6; v. 276; p. 91.

McAvoy Manufacturing Company. (See McAvoy, John A. assignor.)

McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Making valve tappet and roller holders for hydrocarbon-motors. No. 1,345,942; July 6 v. 276; p. 122.

McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No 1,345,943; July 6; v. 276; p. 122.

McCann, John, Paterson, N. J. Shuttle. No. 1,346,037; July 6; v. 276; p. 140.

McCartney, Elmer B., assignor to Toro Motor Company, Minneapolis, Minn. Convertible cultivator-tractor. No. 1,345,498; July 6; v. 276; p. 34.

McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Company, Seattle, Wash. Driving apparatus for monorail-trucks. No. 1,345,867; July 6; v. 276; p. 106.

McColl, Francis P., Ridgewood, N. J., and W. W. Willison, New York, assignors to Thermokept Products Corporation, New York, N. Y. Apparatus for canning. No. 1,345,380; July 6; v. 276; p. 11.

McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)

McDonald, Marie D., Portland, Oreg. Woman's hat. No. 1,345,547; July 6; v. 276; p. 44.

McDougall, Alexander, Duluth, Minn. Vessel. No. 1,345,610; July 6; v. 276; p. 55.

McDougall, Alexander, Duluth, Minn. Vessel. No. 1,345,611; July 6; v. 276; p. 55.

McElroy, James A. Kansas City, Mo. Shocker attachment for grain-binders. No. 1,345,381; July 6; v. 276; p. 11.

McEwan, Frank J., Chicago, Ill. Combination-heel. No. 1,346,038; July 6; v. 276; p. 141.

McGill Manufacturing Company. (See Hasselstrom, Ivar S., assignor.)

McKibbin, Alexander, Chicago, Ill. Valve. No. 1,345,382; July 6; v. 276; p. 11.

McKibbin, Alexander, Chicago, Ill. Automatic controller. No. 1,345,383; July 6; v. 276; p. 11.

McNerny, Clyde J., assignor to H. Loeb and H. Hurst, Memphis, Tenn. Oil-burner. No. 1,345,612; July 6; v. 276; p. 56.

McOmber, Loren W., Milwaukee, Wis., assignor of one-half to C. B. Belknap, Detroit, Mich. Treating hydrocarbons. No. 1,345,452; July 6; v. 276; p. 24.

McRae, Arthur A., Attleboro, Mass. Cuff-link. No. 1,346,039; July 6; v. 276; p. 141.

McRae, Daniel, Central Islip, N. Y. Rowing-gear. No. 1,346,040; July 6; v. 276; p. 141.

McRae, John, Vancouver, British Columbia, Canada. Marine-engine-operation indicator. No. 1,345,384; July 6; v. 276; p. 11.

Maag, Max, Zurich, Switzerland. Gear-cutting machine. (Reissue.) No. 14,908; July 6; v. 276; p. 154.

Maag, Max, Zurich, Switzerland. Gear-cutting machine. (Reissue.) No. 14,909; July 6; v. 276; p. 154.

Mabie, Ralph R. New York, N. Y. Support for shingles. No. 1,345,683; July 6; v. 276; p. 70.

Macdonald, David B., Leicester, England. Toe-puff and like stiffener for boots and shoes. No. 1,345,944; July 6; v. 276; p. 122.

Macfarlane, George T., Pinner, England. Winch. No. 1,345,613; July 6; v. 276; p. 56.

MacFarlane, William M., Scranton, Pa. Coal-separator. No. 1,345,453; July 6; v. 276; p. 24.

Macheroux, Louis, assignor of one-half to K. Matheus, Chicago, Ill. Elastic extension device. No. 1,345,945; July 6; v. 276; p. 122.

Maclagen, John C. M., Glasgow, Scotland. Piston and piston-rod for internal-combustion engines. No. 1,346,041; July 6; v. 276; p. 141.

Maclaren, James G., Harrison, N. Y. Pneumatic-despatch-tube apparatus. No. 1,346,042; July 6; v. 276; p. 141.

Maire, Auguste, Argenteuil, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Means for attaching sheet-steel jackets to cast-iron motor-cylinders for water-cooling and other purposes. No. 1,345,684; July 6; v. 276; p. 70.

Maize, Frank P., Portland, Oreg. Auto-pedals lock. No. 1,346,098; July 6; v. 276; p. 152.

Malleable Iron Fittings Co., The. (See Pickop, George B., assignor.)

Manker, Charles C., Des Moines, Iowa, assignor of one-half to J. B. Fayant, Golconda, Nev. Internal-combustion engine. No. 1,345,614; July 6; v. 276; p. 56.

Marathon Electric & Manufacturing Co. (See Kimble, Austin, assignor.)

Marks, Isidore, assignor to Keystone Manufacturing Company, Boston, Mass. Motion-picture machine. No. 1,345,793; July 6; v. 276; p. 91.

Marshick, Oliver J. (See Crosby, E. L., and Marshick.)

Mascart, Charles, Croissy-sur-Seine, France. Transporting and elevating apparatus. No. 1,345,454; July 6; v. 276; p. 25.

Maske, Robert W., Chicago, Ill. Faucet. No. 1,345,615; July 6; v. 276; p. 56.

Mason, Charles E., Detroit, Mich., assignor to G. Waldref, St. Paul, Minn. Manifold-bracket for hydraulic hoists. No. 1,345,616; July 6; v. 276; p. 56.

Massi, Anthony, Rochester, N. Y. Check-printer. No. 1,345,794; July 6; v. 276; p. 91.

Masury, Alfred F., and R. S. Bolger, assignors to International Motor Company, New York, N. Y. Clutch-control device. No. 1,345,685; July 6; v. 276; p. 70.

Mathews, Karl. (See Macheroux, Louis, assignor.)

Maxwell, James T. (See Van Vleet, C. W., and Haley.)

Maxwell, James T., *et al.* (See Van Vleet, Charles W., assignor.)

Mead, Ezra B., Ottumwa, Iowa. Boring-machine attachment. No. 1,345,455; July 6; v. 276; p. 25.

Mecky, A., Company. (See Papini, Antonio, assignor.)

Medart, Fred, Manufacturing Company. (See Medart, Philip S., assignor.

Medart, Philip S., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Playground-swing. No. 1,345,385; July 6; v. 276; p. 11.

Merrill Company, The. (See Kuryla, Michael H., assignor.)

Metesser, Lewis, New Orleans, La. Valve. No. 1,345,686; July 6; v. 276; p. 70.

Meyer, Bernhard H., New Haven, Conn. Drapery-clip. No. 1,345,868; July 6; v. 276; p. 105.

Meyer, Geo. J., Manufacturing Company. (See Meyer, George J., assignor.)

Meyer, George J., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Loader for bottle-washers. No. 1,345,617; July 6; v. 276; p. 57.

Meyer, Nicolaas E. G. (See Schoute C., van Heyst, and Meyer.)

Meyers, Alfred M., Merriam, Kans. Plate-bending machine. No. 1,345,386; July 6; v. 276; p. 12.

Meyfarth, John L., Chicago, Ill. Coin-controlled vending-machine. No. 1,345,499; July 6; v. 276; p. 34.

Miehle Printing Press & Manufacturing Company. (See Blaine, Joseph R., assignor.)

Milker, Herbert P., assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,345,687; July 6; v. 276; p. 70.

Milker, Herbert P., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,345,795; July 6; v. 276; p. 92.

Miller, James A., Beeville, Tex. Plow attachment. No. 1,345,869; July 6; v. 276; p. 106.

Milne, Robert. (See Johnson, O. W., and Milne.)
Miner, William H. (See O'Connor, John F., assignor.)
Minor, William F., P. C. Keller, Cleveland, and T. W. Rolph, Sebring, Ohio, assignors to General Electric Company. Reflector. No. 1,345,796; July 6; v. 276; p. 92.
Mitchell, Leon, Dorchester, Mass. Dough-dropper for frying doughnuts. No. 1,345,500; July 6; v. 276; p. 84.
Miyasaki, Yuske, McKees Rocks, Pa. Locking device for levers. No. 1,345,618; July 6; v. 276; p. 57.
Mizer, Joseph J., and V. Jakob, assignors to Walker Manufacturing Company, Racine, Wis. Lifting-jack. No. 1,345,797; July 6; v. 276; p. 92.
Montague, Edward, Chicago, Ill. Valve. No. 1,345,548; July 6; v. 276; p. 44.
Moody, John P. (See Moody, William F., assignor.)
Moody, William F., assignor of one-tenth to J. P. Moody, Denver, Colo. Folding camp-berth. No. 1,346,043; July 6; v. 276; p. 142.
Moomy, Joseph G., Erie, Pa. Wrench mechanism. No. 1,345,619; July 6; v. 276; p. 57.
Moore, Frank P., St. Joseph, Mo. Blower and suction carpet and rug cleaner. No. 1,346,044; July 6; v. 276; p. 142.
Moore, James E. A. (See Peck, F. A., and Moore.)
Moore, Swinfen B., Huddersfield, England. Change-speed gear. No. 1,345,688; July 6; v. 276; p. 71.
Moore, William F., assignor to G. S. Parker and W. F. Palmer, Janesville, Wis. Pressure-bar mechanism. No. 1,346,045; July 6; v. 276; p. 142.
Moran, Walter R., assignor of one-half to A. Goldstein, Worcester, Mass. Automobile-alarm. No. 1,345,387; July 6; v. 276; p. 12.
Morehouse, Clarence A., Lawrence, Kans. Chain-fastener. No. 1,346,046; July 6; v. 276; p. 142.
Morgan & Wright. (See Wetlon, Harry A., assignor.)
Morris, Herbert, Limited. (See Purnell, W. H., and Butterworth, assignors.)
Morris, Joseph, Elton, near Chester, England. Shell or projectile. No. 1,345,689; July 6; v. 276; p. 71.
Morrison, Dennis W., Indiana Harbor, Ind. Lattice-truss. No. 1,345,501; July 6; v. 276; p. 84.
Mortimer, Louis A., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical relay. No. 1,345,798; July 6; v. 276; p. 92.
Mosler Lock Company, The. (See Benham, Edgar M., assignor.)
Mosler Lock Company, The. (See Benham, William T. and E. M., assignors.)
Mowbray, Archibald J. H. (See Jones, A. W. Bryden, and Mowbray.)
Moyer, John A., Harriman, Pa. Water glass and column reflector and protector. No. 1,345,799; July 6; v. 276; p. 92.
Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Eel-guard for cocks. No. 1,345,946; July 6; v. 276; p. 122.
Mueller, Rudolph J. J., assignor to Universal Oxygen Company, Sheboygan, Wis. Valve for high-pressure-fluid containers. No. 1,345,388; July 6; v. 276; p. 12.
Muir, Archibald C., Brilliant, N. Mex. Railway-track equipment. No. 1,345,389; July 6; v. 276; p. 12.
Muller, Frederick H., Chicago, Ill. Making coffee and apparatus therefor. No. 1,345,947; July 6; v. 276; p. 122.
Mullin, Lenora E., Oak Park, Ill. Foundation-girdle. No. 1,345,800; July 6; v. 276; p. 93.
Mullins, Thomas L., Aubrey, Tex. Dipping-vat. No. 1,345,801; July 6; v. 276; p. 93.
Munschauer, Frederick E., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Gage for sheet-metal shears, &c. No. 1,345,802; July 6; v. 276; p. 93.
Munter, Charles, New York, N. Y. Maternity-corset. No. 1,345,620; July 6; v. 276; p. 57.
Munter, Charles, New York, N. Y. Hook or stud. No. 1,345,621; July 6; v. 276; p. 57.
Muntz, William E., London, England. Deflecting spigot-tap. No. 1,345,803; July 6; v. 276; p. 93.
Myers, Louis, Detroit, Mich. Bottle-cap remover. No. 1,345,948; July 6; v. 276; p. 123.
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O'Neil, Rodolph S., London, England. Recording apparatus. No. 1,345,626; July 6; v. 276; p. 58.
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Phelps, Morton F., assignor to Phelps Manufacturing Company, Limited, Little Rock, Ark. Self-alining fan-wheel. No. 1,345,951; July 6; v. 276; p. 123.
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Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Transport apparatus for demounting and remounting gun barrels. No. 1,345,892; July 6; v. 276; p. 111.
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Short, Charles R., Detroit, Mich. Clutch mechanism. No. 1,345,897; July 6; v. 276; p. 112.
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Societe Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville. (See Maire, Auguste, assignor.)
South, Jerome J., Nashville, Tenn. Convertible chair. No. 1,345,513; July 6; v. 276; p. 36.
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Western Electric Company. (See Polinkowsky, Lipa, assignor.)
Western Electric Co. (See Thomas, George B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)
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Green, Edward E., San Francisco, Calif. Step-plate. No. 55,605; July 6; v. 276; p. 159.
Greene, Charles W., assignor to The Bowling Green Rubber Company, Toledo, Ohio. Tire. No. 55,606; July 6; v. 276; p. 159.
Greenstreet, Milfred L., assignor, by mesne assignments, to Blocker Toy Manufacturing Company, Maplewood, Mo. Toy chair. No. 55,607; July 6; v. 276; p. 159.
Grill, Albert, Pittsburgh, Pa. Push and coaster car. No. 55,608; July 6; v. 276; p. 160.
Grossman, Cassriel J. and S. M., Chicago, Ill.; said S. M. Grossman assignor, by mesne assignments, to S. M. Grossman & Co. Jewelry—namely, ring-top, pendant, pair of cuff-buttons, pin, or article of similar nature. No. 55,609; July 6; v. 276; p. 160.
Grossman, S. M., & Co. (See Grossman, Cassriel J. and S. M., assignors.)
Grossman, Samuel M. (See Grossman, Cassriel J. and S. M.)
Haupt, Harry, Elmsford, assignor to Kimpton, Haupt & Co., New York, N. Y. Cover for inkstand. No. 55,610; July 6; v. 276; p. 160.
Henderson, Chester O., assignor to Henderson Tire & Rubber Corporation, Columbus, Ohio. Tire-tread. No. 55,611; July 6; v. 276; p. 160.
Henderson, Chester O., assignor to Henderson Tire & Rubber Corporation, Columbus, Ohio. Tire-tread. No. 55,612; July 6; v. 276; p. 160.
Henderson Tire & Rubber Corporation. (See Henderson, Chester O., assignor.)
Hickey, Henry J. (See McMullan, W. E., and Hickey.)
Hood Rubber Company. (See Tousley, N. E., and Whorf, assignors.)
Howard, Emmett M., High Point, N. C. Phonographic-record-disk cabinet. No. 55,613; July 6; v. 276; p. 161.
Hulbert, Ansel C., San Francisco, Calif. Switch-casing. No. 134,614; July 6; v. 276; p. 161.
Huyler's. (See Porter, Adelaide M., assignor.)
Inflexible Co. (See Schwarber, Henry, assignor.)
Jackson, Salome C., New York, N. Y. Radiator-cap ornament for automobiles. No. 55,615; July 6; v. 276; p. 161.
Johnson, James G., Chicago, Ill. Foot rest and warmer. No. 55,616; July 6; v. 276; p. 161.
Kammerer, John H., Oakland, Calif. Automobile-body. No. 55,617; July 6; v. 276; p. 161.
Keller, Clarence D., Los Angeles, Calif. Windshield. No. 55,618; July 6; v. 276; p. 162.
Kimpton, Haupt & Co. (See Haupt, Harry, assignor.)
Kimpton, Haupt & Co. (See Riley, James T., assignor.)
Klee, William C., Rochester, N. Y. Belt-display stand. No. 55,619; July 6; v. 276; p. 162.
Knaak, George A., Milwaukee, Wis. Controller. No. 55,620; July 6; v. 276; p. 162.
Koropp, Leopold and V. F. Bergman, Chicago, Ill. Wreath. No. 55,621; July 6; v. 276; p. 162.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,622; July 6; v. 276; p. 162.
Leubner, Herman R. (See Stoizenburg, Walter F., and Leubner.)
Loegler, Chretien, Clifton, N. J., assignor to Monica Textile Corporation. Textile fabric. No. 55,628; July 6; v. 276; p. 163.
Loan, Edward J., assignor to Great Western Manufacturing Company, Laporte, Ind. Bicycle-frame. Nos. 55,624–5; July 6; v. 276; p. 163.
Mahin, Harold J., New York, N. Y. Bulletin-board. Nos. 55,626–7; July 6; v. 276; p. 163.
Mason, Charles E., Detroit, Mich., assignor to G. Waldref, Ramsey county, Minn. Manifold-bracket. No. 55,628; July 6; v. 276; p. 163.
McDade, Andrew J., New York, N. Y. Calendar-mounting. No. 55,629; July 6; v. 276; p. 164.
McElrath, Richards P., Lakewood, Ohio. Pneumatic tire. No. 55,630; July 6; v. 276; p. 164.
McMullan, Warner E., and H. J. Hickey, Fort Dodge, Iowa. Guide device. No. 55,631; July 6; v. 276; p. 164.
Meyer, Peter H., Buffalo, N. Y. Combined paper-weight and magnifying-glass. No. 55,632; July 6; v. 276; p. 164.
Monica Textile Corporation. (See Loegler, Chretien, assignor.)
Monkhouse, Frederick C., Rochester, N. Y. Rattle. Nos. 55,633–4; July 6; v. 276; p. 164.
Morea, Peter, Woodside, N. Y. Picture-frame. No. 55,635; July 6; v. 276; p. 165.
Moore, Erastus G., Long Beach, Calif. Aeroplane-coaster. No. 55,636; July 6; v. 276; p. 165.
Mueller, Paul O., assignor of one-half to W. C. Mueller, Brooklyn, N. Y. Spool-holder. No. 55,637; July 6; v. 276; p. 165.
Mueller, William C. (See Mueller, Paul O., assignor.)
National Lace & Embroidery Company. (See Schmid, Werner, assignor.)
Nemser, Joseph, New York, N. Y. Dress. No. 55,638; July 6; v. 276; p. 165.
Onufryk, Andrew, Rochester, N. Y. Dining-cutlery holder. No. 55,639; July 6; v. 276; p. 166.
Owen, William C. (See Tinsman, Edgar A., assignor.)
P. R. B. Pump Company. (See Price, Stephen C., assignor.)
Philadelphia Metal Drying Form Company. (See von Stetten, Julius O., assignor.)
Porter, Adelaide M., Greenwich, Conn., assignor to Huyler's Inc., New York, N. Y. Doll. No. 55,640; July 6; v. 276; p. 166.
Practical Tools Company. (See Carll, Addison B., assignor.)
Price, Stephen C., Louisiana, assignor to P. R. B. Pump Company, Hannibal, Mo. Oil-can. No. 55,641; July 6; v. 276; p. 166.
Prini, Anthony, Brooklyn, N. Y. Display-stand. No. 55,642; July 6; v. 276; p. 166.
Quinby, Erasmus C., Los Angeles, Calif. Candy-box. No. 55,643; July 6; v. 276; p. 166.
Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf-club. No. 55,644; July 6; v. 276; p. 167.
Richsteig, Max, Cincinnati, Ohio. Casing for a sound-producing instrument. No. 55,645; July 6; v. 276; p. 167.
Riley, James T., Brooklyn, assignor to Kimpton, Haupt & Co., New York, N. Y. Inkstand. Nos. 55,646–7; July 6; v. 276; p. 167.
Saal, Henry G., Chicago, Ill. Mounting-frame for spring-motors. No. 55,648; July 6; v. 276; p. 167.
Salisbury, Myron D., East Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Emblem, medal, badge, insignia, or an article of a similar nature. No. 55,649; July 6; v. 276; p. 167.
Sanborn, Lucian W., Framingham, Mass. Ring. No. 55,650; July 6; v. 276; p. 168.
Schmid, Werner, Brooklyn, assignor to National Lace & Embroidery Company, New York, N. Y. Lace and embroidery. Nos. 55,651–711; July 6; v. 276; pp. 168–76.
Schwarber, Henry, Weehawken, assignor to Inflexible Co., West New York, N. J. Embroidered lace collar. No. 55,727; July 6; v. 276; p. 179.
Seidel, Martin, Weehawken, assignor to West Shore Embroidery Company, West New York, N. J. Lace. Nos. 55,712–19; July 6; v. 276; pp. 176–8.
Segawa, Noboru, Alvin, Tex. Toy. No. 55,720; July 6; v. 276; p. 178.
Shelton Tool & Machine Co. (See Burchfield, Frank E., assignor.)
Silver & Co. (See Ferdon, Guy W., assignor.)
Simola, Efisio, Berwind, Colo. Surface ornamentation for a cocoanut-shell or similar article. No. 55,721; July 6; v. 276; p. 178.
Spalding, A. G., & Bros. (See Reach, William F., assignor.)
Spitler, Bernard W., Boston, Mass. Toy automobile. No. 55,722; July 6; v. 276; p. 178.
Starkweather, Sue P., Berkeley, Calif. Doll. Nos. 55,723–4; July 6; v. 276; p. 179.
Starr, Fred, Oakland, Calif. Toy vehicle. No. 55,725; July 6; v. 276; p. 179.
Stoizenburg, Walter F., and H. R. Leubner, Sheboygan, Wis. Grill for talking-machine cabinets. No. 55,726; July 6; v. 276; p. 179.
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Tinsman, Edgar A., Willoughby, assignor to W. C. Owen, Cleveland, Ohio. Tire. Nos. 55,728–9; July 6; v. 276; pp. 179–80.
Tousley, Nelson E., Belmont, and A. H. Whorf, assignors to Hood Rubber Company, Watertown, Mass. Boot. No. 55,730; July 6; v. 276; p. 180.
Viscardi, Alfredo, New York, N. Y. Screen. No. 55,731; July 6; v. 276; p. 180.

Van Shrum, William H., Columbus, Ohio. Flying toy. No. 55,732; July 6; v. 276; p. 180.
Von Stetten, Julius O., Philadelphia, Pa., assignor to Philadelphia Metal Drying Form Company, New Castle, Del. Hosiery-drying form. No. 55,733; July 6; v. 276; p. 180.
Wagner, Bernard P., assignor to The Wagner Manufacturing Company, Sidney, Ohio. Metal baking-pan. No. 55,734; July 6; v. 276; p. 180.
Wagner Manufacturing Company, The. (See Wagner, Bernard P., assignor.)
Waldref, Grant. (See Mason, Charles E., assignor.)
West Shore Embroidery Company. (See Seidel, Martin, assignor.)
Whorf, Allison H. (See Tousley, N. E., and Whorf.)
Witcombe McGeachin & Co. (See Abolin, Harry T., assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Allied Machinery Company of America, New York, N. Y. Acetylene cutting and welding machines, acetylene-lighting plants, and steam-boilers. No. 132,872; July 6; v. 276; p. 199.
Allied Machinery Company of America, New York, N. Y. Isolated electric-lighting plants, electric-storage-battery locomotives, &c. No. 132,873; July 6; v. 276; p. 199.
Alter, Frank W., Chicago, Ill. Timepieces. Nos. 132,874–5; July 6; v. 276; p. 199.
American Agricultural Chemical Company, The, New York, N. Y. Fertilizer. No. 132,876; July 6; v. 276; p. 199.
American Candy Company, Milwaukee, Wis. Candy. No. 132,877; July 6; v. 276; p. 199.
American Zinc Products Company, The, Greencastle, Ind. Zinc roofing in the form of plates and sheets. No. 132,879; July 6; v. 276; p. 199.
Anzell, Alexander A., New York, N. Y. Dental, &c., mirrors, retinoscopes. No. 132,880; July 6; v. 276; p. 199.
Art Lamp Mfg. Co., Chicago, Ill. Electrically-lighted lamps, torches, lanterns, &c. No. 132,881; July 6; v. 276; p. 199.
Atlantic Coast Distributors, Charleston, S. C. Fruit and fresh vegetables. No. 132,882; July 6; v. 276; p. 199.
Atmore & Son, Inc., Philadelphia, Pa. Preparation for making cake. No. 132,883; July 6; v. 276; p. 199.
Ault & Wiborg Co., The, Cincinnati, Ohio. Varnish-paint. Nos. 132,884–8; July 6; v. 276; p. 199.
Bahnsen, C., & Co. Inc., New York, N. Y. Ladies' knitted dress goods known as jersey cloth in the piece. No. 132,889; July 6; v. 276; p. 199.
Barbe, Alfred M., New York, N. Y. Woven, printed, and dyed drapery fabrics. No. 132,890; July 6; v. 276; p. 199.
Barr, J. E., Pickling & Preserving Company, St. Cloud, Minn. Canned vegetables. Nos. 132,891–2; July 6; v. 276; p. 199.
Bartlett, James R., New York, N. Y. Watch and clock dials. No. 132,893; July 6; v. 276; p. 199.
Bauman, Hyman, & Co., New York, N. Y. Handkerchiefs. No. 132,894; July 6; v. 276; p. 199.
Bausch Machine Tool Company, Springfield, Mass. Non-ferrous metal in the form of castings and forgings, &c. No. 132,895; July 6; v. 276; p. 199.
Bensinger, Norman E., Chicago, Ill. Billiard-cue tips. No. 132,896; July 6; v. 276; p. 199.
Bernard, William J., New York, N. Y. Watches. No. 132,897; July 6; v. 276; p. 199.
Blackburn, Richard H., Jersey City, N. J. Toy vehicle—viz., coaster. No. 132,898; July 6; v. 276; p. 199.
Bourjois, A., & Co., Inc., New York, N. Y. Tooth, nail, hair, bath, and face brushes. No. 132,899; July 6; v. 276; p. 199.
Brown Chemical Co. The, St. Louis, Mo. Food-flavoring cream and nutmeg. No. 132,900; July 6; v. 276; p. 199.
Brownell & Company, Moodus, Conn. Maitre-cord. No. 132,901; July 6; v. 276; p. 199.
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Bowling-balls. No. 132,902; July 6; v. 276; p. 200.
Bulova, J., Company, New York, N. Y. Watches for men and ladies. Nos. 132,903–6; July 6; v. 276; p. 200.
Bussman Manufacturing Company, St. Louis, Mo. Electric fuses and cut-outs. No. 132,907; July 6; v. 276; p. 200.
Carroll, T. L., Company, Gothenburg, Nebr. Wheat-flour. No. 132,908; July 6; v. 276; p. 200.
Carver-Beaver Yarn Co., Inc., New York, N. Y. Knitting-yarn. No. 132,909; July 6; v. 276; p. 200.
Chapman, Frank, Providence, R. I. Alcohol-stoves. No. 132,910; July 6; v. 276; p. 200.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 132,911; July 6; v. 276; p. 200.
Cohen, Goldman & Co. Inc., New York, N. Y. Men's and children's outer garments, automobile-coats, bath-wraps, &c. No. 132,912; July 6; v. 276; p. 200.
Commonwealth Thread Co. Inc., Boston, Mass. Thread used in the manufacture of shoes and known as "shoe-thread." Nos. 132,913–14; July 6; v. 276; p. 200.
Conard & Jones Company, The, West Grove, Pa. Rose-plants. No. 132,915; July 6; v. 276; p. 200.
Connecticut Electric Steel Co., Inc., Hartford, Conn. Wrought tool-steel, steel, iron, &c. No. 132,916; July 6; v. 276; p. 200.
Continental Seed Company, Chicago, Ill. Grass and field seeds. No. 132,917; July 6; v. 276; p. 200.
Converse Supply Company, The, Converse, Mo. Liniments, lotions, salves, &c., used in treating horses and cattle. No. 132,918; July 6; v. 276; p. 200.
Cooper, Jack, New York, N. Y. Sweat-cabinet and an exercising apparatus. No. 132,919; July 6; v. 276; p. 200.
Cortland Line Co. Inc., Cortland, N. Y. Fishing-lines. No. 132,920; July 6; v. 276; p. 200.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 132,921; July 6; v. 276; p. 200.
Crocker Broom and Brush Co., Chicago, Ill. Brooms. No. 132,922; July 6; v. 276; p. 200.
Crown Packing Company, Los Angeles, Calif. Fresh vegetables. No. 132,923; July 6; v. 276; p. 200.
Cumberland (Aylestone), Limited, Leicester, England. Fishing rods, hooks, nets, lines, &c. No. 132,924; July 6; v. 276; p. 200.
Davis, Charles C., Chicago, Ill. Clothes lines. No. 132,925; July 6; v. 276; p. 200.
Davis, Lester H., Lindsborg, Kans. Coffee. No. 132,926; July 6; v. 276; p. 200.
Dew Valve Co., Inc., New York, N. Y. Automatic relief-valves for steam-engine cylinders. No. 132,927; July 6; v. 276; p. 200.
Diller Mfg. Co., The, Bluffton, Ohio. Fireless cookers. No. 132,928; July 6; v. 276; p. 200.
Distinctive Jewelry Co. Inc., New York, N. Y. Jewelry for personal wear, not including watches. No. 132,929; July 6; v. 276; p. 200.
Dubois Watch Case Company, Brooklyn, N. Y. Watches. No. 132,930; July 6; v. 276; p. 200.
Dungan, Hood & Co., Inc., Philadelphia, Pa. Leather and particularly kid leather. No. 132,931; July 6; v. 276; p. 200.
Duttenhofer-Stevens Co., The, Cincinnati, Ohio. Women's high and low shoes of leather and cloth. No. 132,932; July 6; v. 276; p. 200.
Dyer, W. H., Company, Evansville, Ind. Fruit jam, preserves, jelly, and table-syrup. No. 132,933; July 6; v. 276; p. 200.
Energy Electric Company, Haverhill, Mass. Arc and incandescent electric lamps. No. 132,934; July 6; v. 276; p. 201.
Evans, David G., Coffee Co., St. Louis, Mo. Coffee, tea, spices, salad oil and dressing, and flavoring extracts. No. 132,935; July 6; v. 276; p. 201.
Faire Bros. & Co., Limited, Leicester, England. Elastic webs. Nos. 132,936–7; July 6; v. 276; p. 201.
Farrer, Charles M., Seattle, Wash. Doll-buggies. No. 132,938; July 6; v. 276; p. 201.
Ferdinand Gutmann & Co., New York, N. Y. Toy soldiers, dishes, and furniture. No. 132,954; July 6; v. 276; p. 201.
Fink, Geo. A., Co., New York, N. Y. Brooms, brushes, and mops. No. 132,939; July 6; v. 276; p. 201.
Flint, George, Philadelphia, Pa. Artificial teeth. No. 132,940; July 6; v. 276; p. 201.
Fierman, Irving, New York, N. Y. Flexible protective facings or coverings for watch and clock dials. No. 132,941; July 6; v. 276; p. 201
Fort Pitt Malleable Iron Co., Pittsburgh and McKees Rocks, Pa. Malleable-iron castings. No. 132,942; July 6; v. 276; p. 201.
Forward Sparking Plug Co., Birmingham, England. Sparking plugs for internal-combustion engines. No. 132,943; July 6; v. 276; p. 201.
Framingham Manufacturing Company, Framingham, Mass. Metal valves for general use, pump-governors, and pressure-reducing valves. No. 132,944; July 6; v. 276; p. 201.
Frank, Maurice, New York, N. Y. Bales or bags of waste cotton, silk, and woolen rags and waste paper. No. 132,945; July 6; v. 276; p. 201.
Fredericks, Maurice B., New York, N. Y. Paper fiber. No. 132,946; July 6; v. 276; p. 201.
French Battery & Carbon Co., Madison, Wis. Dry-cell batteries. No. 132,947; July 6; v. 276; p. 201.
Grant, W. T., Co., New York, N. Y. Hosiery. No. 132,951; July 6; v. 276; p. 201.
General American Tank Car Corporation, Chicago, Ill. Tank-cars. No. 132,948; July 6; v. 276; p. 201.
General Electric Company, Schenectady, N. Y. Electric incandescent lamps. No. 132,949; July 6; v. 276; p. 201.
Giglio, Angelo, New York, N. Y. Powder-puffs. No. 132,950; July 6; v. 276; p. 201.
Gross, Samuel L., New York, N. Y. Handkerchiefs. No. 132,952; July 6; v. 276; p. 201.
Gruen, D., Sons & Company, The, Cincinnati, Ohio. Watches. No. 132,953; July 6; v. 276; p. 201.

Handley Page Limited, London, England. Blank name and instruction plates. No. 132,955; July 6; v. 276; p. 201.
Harley, E. C., Company, The, Dayton, Ohio. Coffee. Nos. 132,957–8; July 6; v. 276; p. 201.
Harrod's Stores, Limited, London, England. Carpets. No. 132,959; July 6; v. 276; p. 201.
Hasel, Leo, San Francisco, Calif. Heel and toe plates for shoes. No. 132,960; July 6; v. 276; p. 201.
Havens, Clara V., New York, N. Y. Brassières. No. 132,961; July 6; v. 276; p. 201.
Hawley & Hoops, New York, N. Y. Candies. No. 132,970; July 6; v. 276; p. 202.
Hemp & Co., (Corp.), St. Louis, Mo. Stovepipes and stovepipe-elbows. Nos. 132,962–4; July 6; v. 276; p. 201.
Herbert Packing Co. Inc., San Jose, Calif. Canned fruits and vegetables. Nos. 132,965–6; July 6; v. 276; p. 201.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. Nos. 132,967–8; July 6; v. 276; p. 202.
Hood, Fitz-James, Bartow, Fla. Card games. No. 132,969; July 6; v. 276; p. 202.
Howson, Henry, Glenmore, Pa. Corn products, oatmeal, wheat-flour, and prepared feeds for cattle. No. 132,971; July 6; v. 276; p. 202.
Ideal Paste & Chemical Works, Cleveland, Ohio. Adhesive paste. No. 132,972; July 6; v. 276; p. 202.
Imperial Electric Co., The, Akron, Ohio. Electrical machinery. No. 132,973; July 6; v. 276; p. 202.
International Harvester Company, Chicago, Ill. Rope, cord, twine, binder-twine. No. 132,974; July 6; v. 276; p. 202.
Jackson, Edmond, Newport News, Va. Woven textile or fiber floor-mats. No. 132,975; July 6; v. 276; p. 202.
Johnston, Wm. R., Mfg. Co., Chicago, Ill. Curtain-window for automobile-curtains. No. 132,976; July 6; v. 276; p. 202.
Kampfe Bros., Brooklyn, N. Y. Shaving-brushes. No. 132,977; July 6; v. 276; p. 202.
Katzman, Louis, Inc., New York, N. Y. Shawl-coat. No. 132,979; July 6; v. 276; p. 202.
King Trailer Company, Ann Arbor, Mich. Semitrailers. No. 132,980; July 6; v. 276; p. 202.
Kitz, Edward G., Oshkosh, Wis. Toy vehicle. No. 132,981; July 6; v. 276; p. 202.
Knickerbocker Watch Co., New York, N. Y. Watches. No. 132,982; July 6; v. 276; p. 202.
Krolik, A., & Company, Detroit, Mich., and New York, N. Y. Men's flannel, work, and night shirts and pajamas. No. 132,983; July 6; v. 276; p. 202.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 132,984; July 6; v. 276; p. 202.
L. and T. Company, The, Oakland, Calif. Table-syrup. No. 132,985; July 6; v. 276; p. 202.
La France, Ward, Truck Co. Inc., Elmira, N. Y. Motor-trucks. No. 133,086; July 6; v. 276; p. 205.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Wheat-flour. No. 132,986; July 6; v. 276; p. 202.
Leitner, Henry, and William H. Exley, London, England. Electric accumulators or secondary batteries. No. 132,987; July 6; v. 276; p. 202.
Leoffler, S. G., Jr., Washington, D. C. Doughnuts. No. 132,988; July 6; v. 276; p. 202.
Lesher, Whitman & Co. Inc., New York, N. Y. Fabric made with cotton warp and filling of wool, mohair, &c. No. 132,989; July 6; v. 276; p. 202.
Levy, Maurice, New York, N. Y. Toothbrushes. No. 132,990; July 6; v. 276; p. 202.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 132,991; July 6; v. 276; p. 202.
Lorenzen, Chas F., & Co., Chicago, Ill. Letters or numbers made of highly-glazed porcelain blocks. Nos. 132,992–3; July 6; v. 276; p. 202.
Lyons, Arthur H. Philadelphia, Pa. Storage batteries and parts thereof. Nos. 132,994–5; July 6; v. 276; p. 202.
Marcus, Michael, New York, N. Y. Brooms and brushes. No. 132,997; July 6; v. 276; p. 202.
Matthews Engineering Co., The, Sandusky, Ohio. Unitary electric plants. No. 132,998; July 6; v. 276; p. 202.
Maxwell-Ray Company, Milwaukee, Wis. Electric lamps. No. 132,999; July 6; v. 276; p. 202.
Mayclese, New York, N. Y. Clock-dial. No. 133,000; July 6; v. 276; p. 202.
McIntosh Battery & Optical Co., Chicago, Ill. Electro-medical switchboard for electric-bath use. No. 132,996; July 6; v. 276; p. 2020.
Meyrowitz, E. B., Inc., New York, N. N. Mechanical devices as an aid to hearing. No. 133,001; July 6; v. 276; p. 203.
Michigan Service Corporation, Jackson, Mich. Coal-burning heaters and furnaces. No. 133,002; July 6; v. 276; p. 203.
Migel, J. A., Inc., New York, N. Y. Piece goods. No. 133,003; July 6; v. 276; p. 203.
Miller Rubber Co., The, Akron, Ohio. Water-bottles, syringe-bags, combination-syringes, and rubber tubes. No. 133,005; July 6; v. 276; p. 203.
Miller Rubber Company, The, Akron, Ohio. Rubber water-bags and bottles. No. 133,004; July 6; v. 276; p. 203.
Moore Electric Corporation, The, Chicago, Ill. Electric hair-clippers, motors, and hair-driers. No. 133,006; July 6; v. 276; p. 203.
Memser, Joseph, New York, N. Y. Gowns. No. 133,007; July 6; v. 276; p. 203.
Neustadter Brothers, San Francisco, Calif. Woven and knitted union-suits for men, women, and children. No. 133,008; July 6; v. 276; p. 203.
Newton Broom Co., Newton, Ill. Brooms. No. 133,009; July 6; v. 276; p. 203.
Northam Warren Corporation, New York, N. Y. Manicure sets sold as a unit. No. 133,010; July 6; v. 276; p. 203.
Northwestern Candy Company, Waterloo, Iowa. Candied nut-bars. No. 133,011; July 6; v. 276; p. 203.
Oneida Community, Limited, Oneida, N. Y. Flat-ware plated with precious metal. Nos. 133,012–14; July 6; v. 276; p. 203.
Outlook Company, The, Cleveland, Ohio. Wind-shield cleaners of the squeegee type. No. 133,015; July 6; v. 276; p. 203.
Page, Handley, Limited, London, England. Aeroplane covers and tents. No. 132,956; July 6; v. 276; p. 201.
Parker, Frederick R., Chicago, Ill. High-potential-electricity-arrester electrodes. No. 133,016; July 6; v. 276; p. 203.
Penn Rivet Corporation, Philadelphia, Pa. Powder-puffs. No. 133,017; July 6; v. 276; p. 203.
Pfeffer, Genevieve, San Jose, Calif. Dolls. No. 133,018; July 6; v. 276; p. 203.
Pierce, Percy, Philadelphia, Pa. Toy aeroplanes. No. 133,019; July 6; v. 276; p. 203.
Porter, Robert W., Mobile, Ala. Toy furniture. No. 133,020; July 6; v. 276; p. 203.
Presto-Felt Mfg. Co., The, Toledo, Ohio. Wiping and cleaning apparatus for automobile wind-shields, &c. No. 133,021; July 6; v. 276; p. 203.
Prosnitz, Charles, Mount Vernon and New York, N. Y. Narrow woven fabrics. No. 133,022; July 6; v. 276; p. 203.
Pushee, J. C., & Sons, Boston, Mass. Painters' and shaving brushes, floor-brooms, and counter-dusters. No. 133,023; July 6; v. 276; p. 203.
Reed, Chas. H., New York, N. Y. Bunting. No. 133,024; July 6; v. 276; p. 203.
Rheinberger, Alois J., New York, N. Y. Shine-removing brushes. No. 133,025; July 6; v. 276; p. 203.
Rodgers Hosiery Company, Incorporated, Philadelphia, Pa. Hosiery. No. 133,026; July 6; v. 276; p. 203.
Root Playing Card Co., Chicago, Ill. Playing-cards. No. 133,027; July 6; v. 276; p. 203.
Ropkins, Edgar L., Hartford, Conn. Non-intoxicating cereal beverages. No. 133,028; July 6; v. 276; p. 203.
Roy Watch Case Company, New York, N. Y. Watch-cases. No. 133,029; July 6; v. 276; p. 203.
Roy, William D., Belleview, Tenn. Playing-cards. No. 133,030; July 6; v. 276; p. 203.
Rummell Manufacturing Works, Findlay, Ohio. Spark-plugs. No. 133,031; July 6; v. 276; p. 203.
Sanatho Specialty Company, Phoenix, Ariz. Napkin-holders commercially known as sanitary belts. No. 133,032; July 6; v. 276; p. 203.
Schall, William, & Co., New York, N. Y. Drills and shirtings. No. 133,034; July 6; v. 276; p. 203.
Schall's Inc., Clinton, Iowa. Chocolates. No. 133,033; July 6; v. 276; p. 203.
Schuler Chocolate Factory, Inc., Winona, Minn. Candy. Nos. 133,035–36; July 6; v. 276; pp. 203–4.
Schwarz, Max, New York, N. Y. Voiles in the piece. No. 133,037; July 6; v. 276; p. 204.
Scott County Milling Company, The, Sikeston, Mo. Wheat-flour. No. 133,038; July 6; v. 276; p. 204
Shaver, Elsie, New York, N. Y. Dolls. Nos. 133,039; July 6; v. 276; p. 204.
Shushan Bros & Co., New Orleans, La. Men's and ladies' furnishing goods, hosiery, and notions. No. 133,040; July 6; v. 276; p. 204.
Skinner, Paul F., Omaha, Nebr. Macaroni, spaghetti, and noodles. No. 133,041; July 6; v. 276; p. 204.
Société Anonyme Les fils de L. Braunschweig, Fabrique-Election, La Chaux-de-Fonds, Switzerland. Watches and parts thereof. No. 133,042; July 6; v. 276; p. 204.
Solomon, Mannie, Company, New York, N. Y. Ladies' and misses' dresses. No. 133,043; July 6; v. 276; p. 204.
Standard By-Products Co., Incorporated, Louisville, Ky. Digester-tankage, a food for stock. No. 133,045; July 6; v. 276; p. 204.
Sterling Manufacturing Company, Chicago, Ill. House or apron dresses. No. 133,046; July 6; v. 276; p. 204.
Sterling Varnish Company, The, Pittsburgh, Pa. Varnish for electric insulation. No. 133,047; July 6; v. 276; p. 204.
Stitt Ignition Co., The, Columbus, Ohio. Spark-plugs. No. 133,048; July 6; v. 276; p. 204.
Stoltz, Melville, St. Louis, Mo. Toy savings-bank. No 133,049; July 6; v. 276; p. 204.
Stuart, Ellis V., Indianapolis, Ind. Ignition-wire conduits. No. 133,050; July 6; v. 276; p. 204.
Stuart Products Corporation, Chicago, Ill. Electric batteries. No. 133,051; July 6; v. 276; p. 204.
Summit Thread Company, East Hampton, Conn. Mercerized-cotton thread or yarn. No. 133,052; July 6; v. 276; p. 204.
Swisky, Robert, Chicago, Ill. Hat-brushes. No.133,053; July 6; v. 276; p. 204.

Tagliabue, Charles J., Mfg. Co., Brooklyn, N. Y. Clinical thermometers, sphygmomanometers, hypodermic needles and syringes. Nos. 133,054–5; July 6; v. 276; p. 204.
Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 133,056; July 6; v. 276; p. 204.
Tansey, Owen H., Montreal, Quebec, Canada. Wash or spray for treatment of the mouth, throat, &c. No. 133,057; July 6; v. 276; p. 204.
Tate Manufacturing Company, Boston, Mass. Braided rope. No. 133,058; July 6; v. 276; p. 204.
Taylor-Friedsam Company, The, Paterson, N. J., and New York, N. Y. Silk ribbons in the piece. No. 133,059; July 6; v. 276; p. 204.
Taylor, Tunnicliff and Company, Limited, Hanley, England. Electric insulators made of porcelain. No. 133,060; July 6; v. 276; p. 204.
Thomas, Dell W., Seattle, Wash. Pearl jewelry. No. 133,062; July 6; v. 276; p. 204.
Three In One Oil Company, Rahway, N. J., and New York, N. Y. Solvent or softener to facilitate the cleaning of certain named articles. No. 133,061; July 6; v. 276; p. 204.
Tiffany & Company, New York, N. Y. Jewelry for personal wear. No. 133,063; July 6; v. 276; p. 204.
Tropics Corporation, The, New York, N. Y. Leather hides. No. 133,064; July 6; v. 276; p. 204.
Tru-Aim Manufacturing Company, Chicago, Ill. Golf-putters. No. 133,065; July 6; v. 276; p. 204.
Trumbo, Stacy D., Columbus, Ohio. Catamenial bandage. No. 133,044; July 6; v. 276; p. 204.
Tusner & Walls, New York, N. Y. Silk and cotton piece goods and combinations of same. No. 133,067; July 6; v. 276; p. 204.
Twin Falls Dehydrating Co. Twin Falls, Idaho. Dehydrated vegetables and fruits. No. 133,066; July 6; v. 276; p. 204.
U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol. No. 133,069; July 6; v. 276; p. 205.
Usona Dental Company, Inc., Ogdensburg, N. Y. Burs and broaches. Nos. 133,073–74; July 6; v. 276; p. 205.
Utica Drop Forging & Tool Company, Utica, N. Y. Dental pliers and forceps. No. 133,075; July 6; v. 276; p. 205.
United Drug Company, Boston, Mass. Dental, medical, and surgical appliances. No. 133,068; July 6; v. 276; p. 205.
United States Playing Card Company, The, East Norwood, Ohio. Playing-cards. Nos. 133,070–1; July 6; v. 276; p. 205.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Dental dam, surgeons' gloves, seamless nipples, &c. No. 133,072; July 6; v. 276; p. 205.
Van Orden Company, The, Newark, N. J. Corsets. Nos. 133,076–78; July 6; v. 276; p. 205.
Waldes & Co., Prague, Bohemia. Notions. Nos. 133,079–82; July 6; v. 276; 205.
Ward Baking Company, New York, N. Y. Bread. Nos. 133,083–5; July 6; v. 276; p. 205.
Warner Brothers Company, The, Bridgeport, Conn. Brassière combination-undergarments and undergarments for women. No. 133,087; July 6; v. 276; p. 205.
Wernet, George L., Philadelphia, Pa. Powder for false teeth. No. 133,088; July 6; v. 276; p. 205.
Western Rope & Manufacturing Company, Tulsa, Okla. Wire and manila ropes and wire cables. No. 133,089; July 6; v. 276; p. 205.
Whitelite Electric Company, New York, N. Y. Incandescent lamps. Nos. 133,090–1; July 6; v. 276; p. 205.
Whitmore-Tirrell Shoe Corporation, Weymouth, Mass. Leather boots and shoes. No. 133,092; July 6; v. 276; p. 205.
Will, Oscar H., & Co., Bismarck, N. D. Seeds—namely, flower and sweet-pea. No. 133,093; July 6; v. 276; p. 205.
Will, Oscar H., & Co., Bismarck, N. D. Seeds—namely, lawn and grass. No. 133,094; July 6; v. 276; p. 205.
Wireless Specialty Apparatus Company, New York, N. Y., and Boston, Mass. Vacuum-tube devices and parts and accessories therefor for radio communication, telegraphy, and telephony. No. 133,095; July 6; v. 276; p. 205.
Witherbee Igniter Company, Springfield, Mass. Batteries, electrical mine-lamps, and magnetos. No. 133,096; July 6; v. 276; p. 205.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Jacoby, Philip I., San Francisco, Calif. "Toyland Special." (For Crackers Known as Joyland Special and Cut in the Shape of a Car.) No. 21,903; July 6; v. 276; p. 206.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Ajax Oil Company, Dallas, Tex. Fuel-oils. No. 125,679; July 6; v. 276; p. 184.
Aktiebolaget Spritmotorer, Uppsala, Sweden. Internal-combustion engines and parts thereof. No. 132,768; July 6; v. 276; p. 196.
Alexander Boguslavsky, Limited, London, England. Smoking-tobacco, cigars, and cigarettes. No. 129,620; July 6; v. 276; p. 188.
American Electric Co., Chicago, Ill. Electric horns. No. 129,962; July 6; v. 276; p. 189.
American Speed-O-Feeder Company, Akron, Ohio. Device to be used in connection with feeding envelops to typewriting-machines. No. 131,618; July 6; v. 276; p. 192.
American Steel Foundries, Chicago, Ill. Monthly publication. No. 127,232; July 6; v. 276; p. 186.
Baer, Arthur A., Brooklyn, N. Y. Original written articles. No. 128,340; July 6; v. 276; p. 187.
Bagshaw, W. H., Co., Lowell, Mass. Phonographic needles. No. 131,696; July 6; v. 276; p. 192.
Ballard and Ballard Company, Louisville, Ky. Flour, prepared flour, wheat-flour, &c. No. 132,001; July 6; v. 276; p. 193.
Baron, Henry M., Chicago, Ill. Clothing. No. 132,079; July 6; v. 276; p. 194.
Bartsch, Walter F., Washington, D. C. Cartoons. No. 132,424; July 6; v. 276; p. 195.
Beaver Company, The, Buffalo, N. Y. Wall-board and building-paper. No. 125,527; July 6; v. 276; p. 184.
Bender-Zimmer Company, Milwaukee, Wis. Knit goods. No. 132,460; July 6; v. 276; p. 196.
Benjamin, L., & Sons, New York, N. Y. Olive-oil. No. 130,199; July 6; v. 276; p. 190.
Berger Manufacturing Company, Canton, Ohio. Metal ceilings. No. 132,502; July 6; v. 276; p. 196.
Bernard, Pierre J. H., Montreal, Quebec, Canada. Electrical air-heating apparatus and parts therefor. No. 125,650; July 6; v. 276; p. 184.
Bertarelli, Fratelli, Milan, Italy. Typewriting-machines. No. 131,143; July 6; v. 276; p. 191.
Bloomfield, Meyer, Boston, Mass. Publication issued weekly. No. 122,968; July 6; v. 276; p. 183.
Borden Brothers and Co., Ltd., Toms Brook, Va. Wheat-flour. No. 132,000; July 6; v. 276; p. 193.
Boyd, L. D., Louisville, Ky. Hosiery. No. 130,204; July 6; v. 276; p. 190.
Brady, George W., Chicago, Ill. Chemical tissue for use as a surgical dressing. No. 129,694; July 6; v. 276; p. 189.
Bramore Cigar Co., Boston, Mass. Cigars. No. 122,878; July 6; v. 276; p. 183.
Brenard Manufacturing Company, Iowa City, Iowa. Phonographic machines. No. 118,076; July 6; v. 276; p. 182.
Busath's Candy Shop, Inc., Louisville, Ky. Candy. No. 131,774; July 6; v. 276; p. 192.
Cairo Food Products Company, Cairo, Ill. Soda-water. No. 127,891; July 6; v. 276; p. 187.
Carter Carburetor Company, St. Louis, Mo. Carbureters. Nos. 133,517–18; July 6; v. 276; p. 197.
Casamer, Maude M., Louisville, Ky. Boiler-wall cement or coating having heat-insulating properties. No. 131,816; July 6; v. 276; p. 193.
Casamer, Maude M., Louisville, Ky. Thick liquid or plastic roof-coating. No. 131,815; July 6; v. 276; p. 193.
Catholic Missionary Union, Brookland, D. C. Monthly publications. No. 132,296; July 6; v. 276; p. 195.
Celro-Kola Co., Portland, Oreg. Concentrated syrup used in making non-alcoholic non-cereal maltless beverages. No. 129,045; July 6; v. 276; p. 188.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flatirons. No. 122,112; July 6; v. 276; p. 183.
Clay, Henry, and Bock & Co. Ltd., New York, N. Y. Cigars. No. 129,445; July 6; v. 276; p. 188.
Clem Lumber Company, Dallas, Tex. Mixed paints. No. 127,578; July 6; v. 276; p. 186.
Climax Lumber Company Ltd., New Orleans, La. Rough hardwood lumber. No. 124,135; July 6; v. 276; p. 184.
Coca-Cola Bottling Co., The, St. Louis, Mo. Grape-soda. No. 128,079; July 6; v. 276; p. 187.
Columbia Postal Supply Company, Silver Creek, N. Y. Hand devices for stamp-canceling and postmarking. No. 131,564; July 6; v. 276; p. 192.
Dodo Board Company, East Cleveland, Ohio. Games—namely, ring-toss boards and apparatus to be used therewith. No. 127,581; July 6; v. 276; p. 186.
Edison Portland Cement Company, The, West Orange and New Village, N. J., and New York, N. Y. Portland cement. No. 119,232; July 6; v. 276; p. 182.
Eiseman Bros. Mfg. Co., St. Louis, Mo. Women's and children's dresses. No. 130,812; July 6; v. 276; p. 190.
Elbury, Edward J., San Francisco, Calif. Printed booklet. No. 132,348; July 6; v. 276; p. 195.
Electrik Maid Bake Shops, St. Paul, Minn. Baker's electric oven. No. 128,548; July 6; v. 276; p. 188.
Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies. No. 115,342; July 6; v. 276; p. 181.
Fox River Paper Company, Appleton, Wis. Writing-paper. No. 132,013; July 6; v. 276; p. 193.
Frost, Walter B., Providence, R. I. Periodical publication. No. 127,584; July 6; v. 276; p. 186.
Fry, Silas W., New York, N. Y. All kinds and grades of typewriter ribbons and carbon-papers. No. 130,757; July 6; v. 276; p. 190.
Funk & Wagnalls Company, New York, N. Y. Section of a periodical published weekly. No. 132,238; July 6; v. 276; p. 195.
Getz Bros. & Co., San Francisco, Calif. Turpentine substitute. No. 126,512; July 6; v. 276; p. 185.
Gibbs, John, Terre Haute, Ind. Preparation for treatment of kidney, liver, bladder, and sexual debility. No. 126,021; July 6; v. 276; p. 185.
Graham Brothers, Evansville, Ind. Tractors. No. 132,385; July 6; v. 276; p. 195.
Greenstein, Rudolph, New York, N. Y. Concrete-hardener. No. 131,599; July 6; v. 276; p. 192.
Herbert Packing Co. Inc., San Jose, Calif. Canned fruits and vegetables. No. 127,646; July 6; v. 276; p. 186.
Holland, William H., Wood River, Ill. Base-metal alloys. No. 132,861; July 6; v. 276; p. 196.
Hymes, Samuel, & Sons, New York, N. Y. Cotton piece goods. No. 131,269; July 6; v. 276; p. 191.
Hyndman Roofing Company, The, Cincinnati, Ohio. Metal roofing and siding. No. 123,209; July 6; v. 276; p. 184.
Independent Brewing Company of Pittsburgh, Pittsburgh, Pa. Beverages containing malt. No. 120,389; July 6; v. 276; p. 182.
International Vegetable Oil Company., Atlanta, Ga. Lard compound and peanut-butter. No. 117,187; July 6; v. 276; p. 181.
Jackson Brewing Company, New Orleans, La. Bottled malt beverages. No. 127,512; July 6; v. 276; p. 186.
Kaffee Hag Corporation, New York, N. Y. Decaffeinated coffee. No. 131,335; July 6; v. 276; p. 191.
Keeley Brewing Co., Chicago, Ill. Malt non-intoxicating beverage. No. 129,847; July 6; v. 276; p. 189.
Kiwanis Club, International, The, Chicago, Ill. Publications issued monthly. No. 127,133; July 6; v. 276; p. 185.
Laclede-Christy Clay Products Company, St. Louis, Mo. Fire-brick and fire-tile. No. 120,214; July 6; v. 276; p. 182.
La Crosse Refining Company, La Crosse, Wis. Maltose-syrup for use in the manufacture of near beer. No. 127,926; July 6; v. 276; p. 187.
Lake Superior Loader Co., Duluth, Minn. Mechanical shovels. No. 132,747; July 6; v. 276; p. 196.
Lauter, Felix, Albany, N. Y. Pearls, neck and watch chains, &c. No. 131,803; July 6; v. 276; p. 193.
Larabee Flour Mills Corporation, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. No. 133,359; July 6; v. 276; p. 197.
Larabee Flour Mills Corporation, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. No. 133,364; July 6; v. 276; p. 197.
Larabee Flour Mills Corporation, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. No. 133,366; July 6; v. 276; p. 197.
Larabee Flour Mills Corporation, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. No. 133,368; July 6; v. 276; p. 197.
Lebedieff, V. V., Engineering & Supply Corp. New York, N. Y. Steel and steel and iron nail-wire, bright hard wire, &c. No. 118,055; July 6; v. 276; p. 181.
Levine, L., and Sons, Cincinnati, Ohio. Women's and misses' clothing. No. 129,936; July 6; v. 276; p. 189.
Liberty Knife Company, The, New Haven, Conn. Pocket-knives. No. 132,540; July 6; v. 276; p. 196.
Linotel Flooring Co. Inc., New York and Brooklyn, N. Y. Composition flooring. No. 128,214; July 6; v. 276; p. 187.
Little Duchess Dress Co., Inc., New York, N. Y. Style-catalogues. No. 123,127; July 6; v. 276; p. 183.
M. & M. Company, The, Scranton, Pa. Coats, trousers, vests, overcoats, outer skirts, and suits for men, women, and children. No. 131,645; July 6; v. 276; p. 192.
Macbeth-Curtis-Moody Company, Cleveland, Ohio. Pipe-joint paste and boiler, pipe, and radiator cement. No. 117,846; July 6; v. 276; p. 181.

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Marceau, Jerry E., Fitchburg, Mass. Ginger-ale. No. 128,449; July 6; v. 276; p. 188.
Marsh-Capron Mfg. Co., Chicago, Ill. Industrial tractors. No. 110,417; July 6; v. 276; p. 181.
Mastertone Phonograph Company, East Liverpool, Ohio. Phonographs. Nos. 131,278–9; July 6; v. 276; p. 191.
Mayer, George, Chicago, Ill. Glue. No. 121,840; July 6; v. 276; p. 183.
Merchant & Evans Company, Philadelphia, Pa. Grease-Cups. No. 132,105; July 6; v. 276; p. 194.
Mervis, Samuel, Baltimore, Md. Russian dressing, salad-dressing, olive-paise, tartar sauce, French dressing, &c. No. 127,972; July 6; v. 276; p. 187.
Miller and Hunold, Providence, R. I. Charms, pendants, and ornaments for neck-chains. No. 130,484; July 6; v. 276; p. 190.
Moore, Edison & Company, Detroit, Mich. Manufactured blankets. No. 132,104; July 6; v. 276; p. 194.
Naches Cold Storage Co., Yakima, Wash. Fresh apples and pears. No. 131,446; July 6; v. 276; p. 191.
Nash Engineering Co., South Norwalk, Conn. Vacuum-heating pumps, air and gas compressors, &c. No. 132,549; July 6; v. 276; p. 196.
National Supply Company, The, Toledo, Ohio. Metal plugs for dry oil and gas wells, metal pipe, &c. No. 118 060; July 6; v. 276; p. 182.
Nebraska Material Company, Lincoln, Nebr. Cement stucco. No. 129,019; July 6; v. 276; p. 188.
Newark Plaster Company, Newark, N. J. Calcined plaster. No. 118,322; July 6; v. 276; p. 182.
New Haven Knitting Mills Inc., New Haven, Conn. Hosiery. No. 131,822; July 6; v. 276; p. 193.
New York Boys' Shops, Inc., New York, N. Y. Suspenders, garters, armbands, belts, combs, &c. No. 130,977; July 6; v. 276; p. 191.
Nixon Hardware Co., Rome, Ga. Axes, shovels, scoops, spades, hammers, vises, &c. No. 127,443; July 6; v. 276; p. 186.
Nocan Soup Company, Hoboken, N. J. Dehydrated and condensed soups. No. 122,722; July 6; v. 276; p. 183.
O'Gorman, Wade & Powers Co., Boston, Mass. Dresses. No. 132,110; July 6; v. 276; p. 194.
Ohio Valley Bottling Works, Cincinnati, Ohio. Non-alcoholic non-cereal maltless beverages. No. 126,056; July 6; v. 276; p. 185.
Omar Co., The, Chicago, Ill. Root-beer. No. 131,317; July 6; v. 276; p. 191.
Overbaugh & Ayres Mfg. Co., Chicago, Ill. Electric-lighting fixtures, shades, and reflectors. No. 124,866; July 6; v. 276; p. 184.
Overseas Export Co. Ltd., The, Christiania, Norway. Brisling and sild, (generically known as sardines.) No. 120,652; July 6; v. 276; p. 189.
Pabst, Josef, Zurich, Switzerland. Necktie-holders, suspenders, and garters and their metal parts. No. 126 873; July 6; v. 276; p. 185.
Palmine Company, Inc., Dobbs Ferry and New York, N. Y. Oleomargarin. No. 133,375; July 6; v. 276; p. 197.
Patch, E. L., Co., The, Stoneham, Mass. Ginger-tea tablets. No. 129,799; July 6; v. 276; p. 189.
Patrick, F. A., & Co., Duluth, Minn. Blouses, dress and shirt waists, kimonos, sweaters, and shawls. No. 130 923; July 6; v. 276; p. 190.
Pioneer Products, Inc., New York, N. Y. Rubber or fiber soles and heels. No. 132,445; July 6; v. 276; p. 195.
Pneumatic Throttle Valve Co., Boston, Mass. Throttle-valves for pneumatic tools. No. 131,535; July 6; v. 276; p. 192.
Producers & Refiners Corporation, Denver, Colo. Gasolene, kerosene, and lubricating-oil. No. 127,697; July 6; v. 276; p. 186.
Public Ledger Company, Philadelphia, Pa. Title for an art feature—namely, series of cartoons printed in newspapers. No. 124,049; July 6; v. 276; p. 184.
Republic Knitting Mills, Philadelphia, Pa. Union-suits, shirts, drawers, and vests. No. 128,370; July 6; v. 276; p. 187.
Rex Metal Products Company, Brooklyn, N. Y. Bugles, trombones, whistles, &c. No. 131,089; July 6; v. 276; p. 191.
Richardson Dry Goods Co., St. Joseph, Mo. Ribbons, handkerchiefs, sheets and pillow-cases, bedspreads, table-cloths, &c. No. 125,859; July 6; v. 276; p. 185.
Richter, F. Ad., & Co., New York, N. Y. Balsam for the treatment of constipation, wind-colic, &c. No. 121,262; July 6; v. 276; p. 183.
Roehrs, Julius, Co., Rutherford, N. J. Annual catalogue. No. 132,049; July 6; v. 276; p. 194.
Rogers Peet Company, New York, N. Y. Men's hats and caps. No. 131,921; July 6; v. 276; p. 193
Roth Tobacco Company, Cape Girardeau, Mo. Smoking and chewing tobacco. No. 129,678; July 6; v. 276; p. 189.
Russo, Frank, and Antonio Cavallare, Rivesville, W. Va. Preparation for the treatment of rheumatism. No. 128,981; July 6; v. 276; p. 188.
Ruth, Benjamin F., Reading, Pa. Pulverized, paste, or any ready-mixed paints, wood-stains, polishes, &c. No. 124,448; July 6; v. 276; p. 184.
Salt's Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, &c. No. 132,122; July 6; v. 276; p. 194.
Sanger Brothers, Inc., Dallas, Tex. Overalls, hosiery, dresses for ladies and misses, &c. No. 132,366; July 6; v. 276; p. 195.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. Nos. 132,820–1; July 6; v. 276; p. 196.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 133,108; July 6; v. 276; p. 197.
Scott & Williams Incorporated, New York, N. Y. Knitting-machines, attachments, and parts. No. 132,151; July 6; v. 276; p. 194.
Scottish Woollen Trade Mark Association Limited, The, Edinburgh, Scotland. Cloths and stuffs of wool in the piece. No. 126,750; July 6; v. 276; p. 185.
Sears, Roebuck & Company, Chicago, Ill. Men's work-shirts. No. 132,208; July 6; v. 276; p. 195.
Shapiro, J. Lester, Brooklyn, N. Y. Shoes. No. 130,071; July 6; v. 276; p. 189.
Smith Bros., Port Washington, Wis. Fish products. No. 132,031; July 6; v. 276; p. 194.
Southern Beverage Company, Galveston, Tex. Non-alcoholic beverages in the form of a syrup or carbonated in bottles. No. 131,509; July 6; v. 276; p. 191.
St. Albans Grain Company, St. Albans, Vt. Flour and cornmeal. No. 130,604; July 6; v. 276; p. 190.
Star Company, New York, N. Y. Newspaper-section. No. 128,467; July 6; v. 276; p. 188.
Stark Tuscarawas Co., The, Canton, Ohio. Non-intoxicating cereal malt beverage. No. 128,471; July 6; v. 276; p. 188.
Stein, A., & Company, Chicago, Ill. Children's waists and union-suits. No. 130,691; July 6; v. 276; p. 190.
Stieglitz, A., & Co. Inc., New York, N. Y. Underwear of woven and textile fabrics for men, women, and children. No. 126,947; July 6; v. 276; p. 185.
Sunderman Corporation, Newburgh, N. Y. Jacks. No. 132,205; July 6; v. 276; p. 195.
Superior Feed Co., The, Memphis, Tenn. Stock, dairy, and poultry feed. No. 127,787; July 6; v. 276; p. 187.
Supreme Motors Corporation, Warren, Ohio. Internal-combustion engines and their parts. No. 132,757; July 6; v. 276; p. 196.
Tuttle, William S., Rutland, Vt. Legal blanks. No. 132,126; July 6; v. 276; p. 194.
Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, &c. No. 131,290; July 6; v. 276; p. 191.
Virocacao Company, New York, N. Y. Food composition containing cocoa and medicated ingredients. No. 115,030; July 6; v. 276; p. 181.
Voorhees, Joseph P., New York, N. Y. Hosiery. No. 132,456; July 6; v. 276; p. 195.
Wallace & Co., Brooklyn, N. Y. Candles. No. 131,716; July 6; v. 276; p. 192.
Waters and Waters Manufacturing Company, St. Louis, Mo. Carbon-paper and inked ribbons. No. 131,545; July 6; v. 276; p. 192.
Wenck & Co., New York, N. Y. An outfit consisting of garment-buttons and attaching thread. No. 130,112; July 6; v. 276; p. 189.
Wisconsin Cabinet and Panel Company, West Orange, N. J., New London, Wis., and New York, N. Y. Wooden panels. No. 120,807; July 6; v. 276; p. 183.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF JULY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acoustic device. G. B. Thomas. No. 1,345,717; July 6; v. 276; p. 77.
Adding-machine. J. T. Hurley. No. 1,345,781; July 6; v. 276; p. 89.
Adjustable bracket. G. G. Blandford. No. 1,345,344; July 6; v. 276; p. 4.
Aeroplane. H. A. Robinson. No. 1,345,885; July 6; v. 276; p. 110.
Aeroplane. C. R. Wilson. No. 1,345,726; July 6; v. 276; p. 78.
Agricultural implement. J. W. Scott. No. 1,345,964; July 6; v. 276; p. 126.
Agricultural-implement seat. J. C. Brian. No. 1,345,830; July 6; v. 276; p. 98.
Air-compressor. B. D. Thompson. No. 1,345,973; July 6; v. 276; p. 128.
Air-compressors, Dust-arrester for. J. R. Ricketts. No. 1,345,405; July 6; v. 276; p. 16.
Air or water. Apparatus for the determination of vertical velocities in or of. C. Schoute, F. A. van Heyst, and N. E. G. Meyer. No. 1,345,556; July 6; v. 276; p. 45.
Air-separator. W. A. Gibson and C. E. Needham. No. 1,346,015; July 6; v. 276; p. 136.
Air-washer. E. J. Kratochvil. No. 1,345,681; July 6; v. 276; p. 69.
Airplane. C. F. Stanley. No. 1,345,970; July 6; v. 276; p. 127.
Alarm: *See*—
Automobile-alarm.
Alcohol from liquids, Process and apparatus for extracting. F. Fehr. No. 1,345,437; July 6; v. 276; p. 21.
Alkali-metal hydrates, Producing. H. W. Charlton. No. 1,346,002; July 6; v. 276; p. 133.
Alternating-current motor. V. A. Fynn. No. 1,345,538; July 6; v. 276; p. 42.
Ammunition-carrier. A. A. Lethern. No. 1,345,864; July 6; v. 276; p. 105.
Amusement device. A. McK. Waters. No. 1,345,647; July 6; v. 276; p. 62.
Anti-aircraft, Apparatus for regulating the firing of. J. L. Routin. No. 1,345,707; July 6; v. 276; p. 74.
Anti-aircraft-control system. J. L. Routin. No. 1,345,697; July 6; v. 276; p. 72.
Anti-aircraft fire control. J. L. Routin. No. 1,345,701; July 6; v. 276; p. 73.
Anti-aircraft fire-control apparatus. J. L. Routin. No. 1,345,705; July 6; v. 276; p. 74.
Anti-aircraft gunfire control. J. L. Routin. No. 345,698; July 6; v. 276; p. 72.
Anti-aircraft gunfire control apparatus. J. L. Routin. No. 1,345,703; July 6; v. 276; p. 74.
Anti-aircraft gunfire-control system. J. L. Routin. No. 1,345,700; July 6; v. 276; p. 73.
Anti-aircraft tracker. J. L. Routin. No. 1,345,704; July 6; v. 276; p. 74.
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Automatic sprinkler. F. T. Gentile. No. 1,345,592; July 6; v. 276; p. 52.
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Automobile-bumper. J. H. Sager. No. 1,345,554; July 6; v. 276; p. 45.
Automobile direction-indicator. J. Sobocinski. No. 1,345,562; July 6; v. 276; p. 47.
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Automobile-signal. W. A. Lee. No. 1,345,863; July 6; v. 276; p. 105.
Automobile-signal. E. G. Shane. No. 1,345,557; July 6; v. 276; p. 46.
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Bait, Artificial. F. C. Keeling. No. 1,345,600; July 6; v. 276; p. 54.
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Barotype-machine. H. E. Brown. No. 1,345,060; July 6; v. 276; p. 65.
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Belting, Machine for making round. A. E. Barker. No. 1,345,907; July 6; v. 276; p. 114.
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Berth, Folding camp-. W. F. Meody. No. 1,346,043; July 6; v. 276; p. 142.
Bevel and miter gage. J. S. M. Nicholson. No. 1,346,050; July 6; v. 276; p. 143.
Beverages, Apparatus for cooling and dispensing. E. R. Brown. No. 1,345,746; July 6; v. 276; p. 82.
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Boiler arch and wall and means for supporting same. L. S. Shaw. No. 1,345,410; July 6; v. 276; p. 17.
Boilers, Economizer for transverse-drum. H. J. Kerr. No. 1,345,369; July 6; v. 276; p. 9.
Bolts, Manufacture of. G. Robergel. No. 1,346,058; July 6; v. 276; p. 144.
Boots and shoes, Toe-puff and like stiffener for. D. B. Macdonald. No. 1,345,944; July 6; v. 276; p. 122.
Boring-machine attachment. E. B. Mead. No. 1,345,455; July 6; v. 276; p. 25.
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Bracket: *See*—
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Breach-mat. J. R. Hewett. No. 1,345,771; July 6; v. 276; p. 87.
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Tire-spreader. T. L. Harkins. No. 1,345,840; July 6; v. 276; p. 102.
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Tires and wheels, Tool for handling and manipulating vehicle. L. R. Schmertz. No. 1,345,889; July 6; v. 276; p. 110.
Tires, Valve-cap for pneumatic. R. P. Adams. No. 1,345,073; July 6; v. 276; p. 147.
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Tool, Pneumatic. M. D. Karles. No. 1,345,495; July 6; v. 276; p. 33.
Tool, Valve-stem. H. J. Wilgus. No. 1,345,651; July 6; v. 276; p. 63.
Tool, Welder's. R. O. Williams. No. 1,345,817; July 6; v. 276; p. 96.
Toothbrush, Folding. C. W. Lloyd. No. 1,345,939; July 6; v. 276; p. 121.
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Toy. A. Peden. No. 1,346,053; July 6; v. 276; p. 144.
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Toy and savings-bank or collecting-box, Combined. R. E. Starkie. No. 1,345,414; July 6; v. 276; p. 17.
Toy book. M. Goodman. No. 1,346,017; July 6; v. 276; p. 136.
Toy vehicle, Equestrian. I. A. Burnett. No. 1,345,578; July 6; v. 276; p. 49.
Track, Overhead-carrier. P. M. Hassler and A. H. Neller. No. 1,345,851; July 6; v. 276; p. 102.
Tractor, Convertible cultivator-. E. B. McCartney. No. 1,345,498; July 6; v. 276; p. 34.
Train controlling and stopping mechanism, Automatic. F. C. Williams. No. 1,345,816; July 6; v. 276; p. 96.
Train-stop mechanism, Automatic or safety. F. A. Diodato. No. 1,345,753; July 6; v. 276; p. 83.
Trains, Automatic mechanism for stopping. S. P. Johnson. No. 1,345,599; July 6; v. 276; p. 54.
Transferring device. C. F. Pfanze. No. 1,345,950; July 6; v. 276; p. 123.
Transporting and elevating apparatus. C. Mascart. No. 1,345,454; July 6; v. 276; p. 25.
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Tray. L. Myers. No. 1,345,949; July 6; v. 276; p. 123.
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Tree-protector band. E. G. Perl. No. 1,345,690; July 6; v. 276; p. 71.
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Truck. G. S. Wood. No. 1,345,469; July 6; v. 276; p. 28.
Truck. T. G. Thomas. No. 1,345,564; July 6; v. 276; p. 47.
Truck, Carrying-. J. Engelbrecht. No. 1,345,667; July 6; v. 276; p. 66.
Truck-nose, Removable. G. S. Wood. No. 1,345,470; July 6; v. 276; p. 28.
Trucks, Driving apparatus for monorail-. R. A. McClure and W. W. Boulton. No. 1,345,867; July 6; v. 276; p. 106.
Tube-cleaner. P. J. Darlington. No. 1,345,480; July 6; v. 276; p. 30.
Tubes, Apparatus for forming. J. F. Pierce. No. 1,345,459; July 6; v. 276; p. 26.
Tubes, Device for cutting. J. F. Pierce. No. 1,345,458; July 6; v. 276; p. 25.
Tunnel-kiln. F. J. Leisen and E. S. Dunn. No. 1,345,605; July 6; v. 276; p. 54.
Turbine-buckets, Mounting for. A. T. Kasley. No. 1,345,678; July 6; v. 276; p. 69.
Turbine, Elastic-fluid. F. Hodgkinson. No. 1,345,674; July 6; v. 276; p. 68.
Turbine, Marine. H. F. Schmidt. No. 1,345,641; July 6; v. 276; p. 61.
Two-stroke motor, Multicylinder. M. A. Violet. No. 1,346,069; July 6; v. 276; p. 147.
Type-casting machines, Melting-pot and metal-injecting mechanism for. J. T. Carter. No. 1,346,077; July 6; v. 276; p. 148.
Typewriter tabulator device. W. L. White. No. 1,345,467; July 6; v. 276; p. 28.
Typewriters, Copyholder for. M. E. Blume. No. 1,345,986; July 6; v. 276; p. 130.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,345,460; July 6; v. 276; p. 26.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,345,877; July 6; v. 276; p. 107.
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Typewriting-machine. G. A. Seib. No. 1,345,894; July 6; v. 276; p. 112.
Undergarment. S. Wright, Jr. No. 1,345,728; July 6; v. 276; p. 79.
Urethroscope and like surgical instrument. M. C. Rimmer. No. 1,345,406; July 6; v. 276; p. 16.
Vacuum cleaning apparatus. E. T. S. Cliffe. No. 1,345,478; July 6; v. 276; p. 30.
Valve. A. McKibbin. No. 1,345,382; July 6; v. 276; p. 11.
Valve. E. Montague. No. 1,345,548; July 6; v. 276; p. 44.
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Valve. W. Le Francois. No. 1,345,682; July 6; v. 276; p. 69.
Valve and means for cooling same. A. O. Dady. No. 1,345,535; July 6; v. 276; p. 41.
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Valve-casings for wind-musical-instrument valves, Die for making. E. J. Gulick. No. 1,345,921; July 6; v. 276; p. 117.
Valve, Flush-. E. Glennon. No. 1,345,920; July 6; v. 276; p. 117.
Valve for high-pressure-fluid containers. R. J. J. Mueller. No. 1,345,388; July 6; v. 276; p. 12.
Valve, Multiple-way stop-. J. Dewrance. No. 1,345,751; July 6; v. 276; p. 83.
Valve, Throttle-. C. C. Hansen. No. 1,345,864; July 6; v. 276; p. 7.
Valve, Throttle-. P. D. Hibner. No. 1,345,772; July 6; v. 276; p. 87.
Vaporizer. M. K. Thayer. No. 1,345,563; July 6; v. 276; p. 47.
Vaporizer-guide. A. G. Kaufman. No. 1,345,448; July 6; v. 276; p. 24.
Vapors, Electrical apparatus for the electrochemical treatment of. L. B. Cherry. No. 1,345,431; July 6; v. 276; p. 20.
Vat, Dipping-. T. L. Mullins. No. 1,345,801; July 6; v. 276; p. 93.
Vehicle, Motor-. F. Kiehler. No. 1,345,931; July 6; v. 276; p. 119.
Vehicle-wheel. N. Renner. No. 1,345,506; July 6; v. 276; p. 35
Vehicles, Pump for motor-. J. G. Vincent. No. 1,345,902; July 6; v. 276; p. 113.
Vehicles, Runner-carrier for motor-. J. E. Ollivier. No. 1,346,052; July 6; v. 276; p. 143.
Vehicles, Speed-change indicator for. H. Rekersdres. No. 1,365,635; July 6; v. 276; p. 60.
Vending-machine, Coin-controlled. J. L. Meyfarth. No. 1,345,499; July 6; v. 276; p. 34.
Vending machine, Newspaper-. O. J. Hotaling. No. 1,345,855; July 6; v. 276; p. 103.
Ventilator. J. Stepin. No. 1,345,514; July 6; v. 276; p. 37.
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Vessel. A. McDougall. No. 1,345,610; July 6; v. 276; p. 55.
Vessel. A. McDougall. No. 1,345,611; July 6; v. 276; p. 55.
Vessels, Propulsion of submarine. W. L. R. Emmet. No. 1,345,757; July 6; v. 276; p. 84.
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Wall-bracket. W. A. Cozart. No. 1,345,910; July 6; v. 276; p. 115.
Walls, Mold for hollow. O. Kofstad. No. 1,345,371; July 6; v. 276; p. 9.
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Air-washer.
Washing machine, Centrifugal clothes-. J. J. Fulton. No. 1,345,761; July 6; v. 276; p. 85.
Washing machine, Dish-. S. G. Smith. No. 1,345,412; July 6; v. 276; p. 17.
Washing-machines, Dish-rack for. A. Ratner. No. 1,345,401; July 6; v. 276; p. 15.
Washing machines, Casing for dish-. J. Vaudreuil. No. 1,345,519; July 6; v. 276; p. 38.
Water glass and column reflector and protector. J. A. Moyer. No. 1,345,799; July 6; v. 276; p. 92.

Water-station. F. W. Davis. No. 1,345,482; July 6; v. 276; p. 30.
Water-wheel, Turbine. E. A. Jacobson. No. 1,345,493; July 6; v. 276; p. 33.
Weather-strip. C. D. Shafer. No. 1,345,409; July 6; v. 276; p. 16.
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Weft-detecting mechanism. E. H. Ryon. No. 1,345,508; July 6; v. 276; p. 36.
Weighing apparatus, Automatic. W. A. Devey. No. 1,345,838; July 6; v. 276; p. 100.
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Resilient wheel.
Vehicle-wheel.
Water-wheel.
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Wheel-hub. E. P. Webster. No. 1,345,648; July 6; v. 276; p. 62.
Wheel-retainer. C. A. Lindberg. No. 1,345,545; July 6; v. 276; p. 43.
Winch. G. T. Macfarlane. No. 1,345,613; July 6; v. 276; p. 56.
Window. G. A. Fair. No. 1,345,915; July 6; v. 276; p. 116.
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Window-frame. C. E. Anderson. No. 1,345,471; July 6; v. 276; p. 28.
Window frame and sash of the sliding-sash type, Metal. F. J. J. Gibbons. No. 1,345,669; July 6; v. 276; p. 67.
Window-guard. A. Josler. No. 1,346,094; July 6; v. 276; p. 152.
Window-lock. D. Spivak. No. 1,346,065; July 6; v. 276; p. 146.
Wire-fence anchoring and supporting stake. B. L. Wessels. No. 1,345,650; July 6; v. 276; p. 62.
Wire, Machine for crimping. A. H. Johnson. No. 1,345,445; July 6; v. 276; p. 23.
Windshield-protector. J. Bedard. No. 1,345,826; July 6; v. 276; p. 98.
Windshield-screen, Automobile. G. W. Cissel and J. P. Applemun. No. 1,345,585; July 6; v. 276; p. 51.
Windshield-wiper. L. W. Gates. No. 1,345,541; July 6; v. 276; p. 42.
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Wrench. J. T. Haslett. No. 1,345,850; July 6; v. 276; p. 102.
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Wrench mechanism. J. G. Moomy: No. 1,345,619; July 6; v. 276; p. 57.
Writing-pad. H. C. Simmons. No. 1,345,558; July 6; v. 276; p. 46.

ALPHABETICAL LIST OF DESIGNS.

Aeroplane-coaster. E. G. Moore. No. 55,636; July 6; v. 276; p. 165.
Article of manufacture. H. T. Abolin. No. 55,582; July 6; v. 276; p. 155.
Automobile-body. J. H. Kammerer. No. 55,617; July 6; v. 276; p. 161.
Automobiles, Radiator-cap ornament for. S. C. Jackson. No. 55,615; July 6; v. 276; p. 161.
Bicycle-frame. E. J. Lonn. Nos. 55,624–5; July 6; v. 276; p. 163.
Boot. N. E. Tousley and A. H. Whorf. No. 55,730; July 6; v. 276; p. 180.
Box, Candy-. E. C. Quinby. No. 55,643; July 6; v. 276; p. 166.
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Bulletin-board. H. J. Mahin. Nos. 55,626–7; July 6; v. 276; p. 163.
Cabinet, Phonographic-disk-record. E. H. Fairbanks. No. 55,596; July 6; v. 276; p. 157.
Cabinet, Phonographic-record-disk. E. M. Howard. No. 55,613; July 6; v. 276; p. 161.
Calendar-mounting. A. J. McDade. No. 55,629; July 6; v. 276; p. 164.
Can, Oil-. S. C. Price. No. 55,641; July 6; v. 276; p. 166.
Car, Push and coaster-. A. Grill. No. 55,608; July 6; v. 276; p. 160.
Card, Playing. A. Bacigalupi. No. 55,583; July 6; v. 276; p. 155.
Cocoanut-shell or similar article, Surface ornamentation for a. E. Simola. No. 55,721; July 6; v. 276; p. 178.
Collar, Embroidered lace. H. Schwarber. No. 55,727; July 6; v. 276; p. 179.
Communication-board. A. S. Crockett. No. 55,593; July 6; v. 276; p. 157.
Controller. G. A. Knaak. No. 55,620; July 6; v. 276; p. 162.
Counter, Help-self. W. J. Bailey. No. 55,584; July 6; v. 276; p. 155.
Cutlery holder, Dining-. A. Onufryk. No. 55,639; July 6; v. 276; p. 166.
Display-stand. A. Prini. No. 55,642; July 6; v. 276; p. 166.
Display-stand, Belt. W. C. Klee. No. 55,619; July 6; v. 276; p. 162.
Doll. G. Corry. No. 55,594; July 6; v. 276; p. 157.
Doll. A. M. Forter. No 55,640; July 6; v. 276; p. 166.
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Drawer-pull. C. A. Cutler. No. 55,595; July 6; v. 276; p. 157.
Dress. J. Nemser. No. 55,638; July 6; v. 276; p. 165.
Egg-poacher. G. W. Fordon. Nos. 55,598–9; July 6; v. 276; p. 158.
Emblem, medal, badge, insignia, &c. M. D. Salisbury. No. 55,649; July 6; v. 276; p. 167.
Fabric, Textile. E. Krupicka. No. 55,622; July 6; v. 276; p. 162.
Fabric, Textile. C. Loegler. No. 55,623; July 6; v. 276; p. 163.
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Fork. F. E. Burchfield. No. 55,589; July 6; v. 276; p. 156.
Gems in jewelry, Plate for mounting. F. H. Felger. No. 55,597; July 6; v. 276; p. 158.
Golf-club. W. F. Reach. No. 55,644; July 6; v. 276; p. 167.
Guide device. W. E. McMullan and H. J. Hickey. No. 55,631; July 6; v. 276; p. 164.
Hammer, can-punch, and ice-pick combination. A. H. Crampton. No. 55,592; July 6; v. 276; p. 157.
Hosiery-drying form. J. O. von Stetten. No. 55,733; July 6; v. 276; p. 180.
Inkstand. J. T. Riley. Nos. 55,646–7; July 6; v. 276; p. 167.
Inkstand-cover. H. Haupt. No. 55,610; July 6; v. 276; p. 160.
Jewelry—namely, ring-top, pendant, pair of cuff buttons, pin, or similar article. C. J. and S. M. Grossman. No. 55,609; July 6; v. 276; p. 160.
Lace. M. Seidel. Nos. 55,712–19; July 6; v. 276; pp. 176–8.
Lace and embroidery. W. Schmid. Nos. 55,651–711; July 6; v. 276; pp. 168–76.
Motors, Mounting-frame for spring-. H. G. Saal. No. 55,648; July 6; v. 276; p. 167.
Pan, Metal baking-. B. P. Wagner. No. 55,734; July 6; v. 276; p. 180.
Paper-weight and magnifying-glass, Combined. P. H. Meyer. No. 55,632; July 6; v. 276; p. 164.
Picture-frame. P. Morea. No. 55,635; July 6; v. 276; p. 165.
Rattle. F. C. Monkhouse. Nos. 55,633–4; July 6; v. 276; p. 164.
Ring. N. Gorod. No. 55,604; July 6; v. 276; p. 159.
Ring. L. W. Sanborn. No. 55,650; July 6; v. 276; p. 168.
Screen. A. Viscardi. No. 55,731; July 6; v. 276; p. 180.
Shrine, Sacramental. S. Buscarage. No. 55,590; July 6; v. 276; p. 156.
Slipper. P. E. Giroux. No. 55,602; July 6; v. 276; p. 159.
Sound-producing-instrument casing. M. Richtsteig. No. 55,645; July 6; v. 276; p. 167.
Spool-holder. P. O. Mueller. No. 55,637; July 6; v. 276; p. 165.
Step-plate. E. E. Green. No. 55,605; July 6; v. 276; p. 159.
Switch-casing. A. C. Hulbert. No. 55,614; July 6; v. 276; p. 161.
Talking-machine-cabinet grill. W. F. Stolzenburg and H. R. Leubner. No. 55,726; July 6; v. 276; p. 179.
Tire. T. Follen. No. 55,600; July 6; v. 276; p. 158.
Tire. C. W. Greene. No. 55,606; July 6; v. 276; p. 159.
Tire. E. A. Tinsman. Nos. 55,728–9; July 6; v. 276; pp. 179–80.
Tire, Automobile-. G. E. Batcheller. No. 55,585; July 6; v. 276; p. 156.
Tire-casing. R. D. Belden. No. 55,586; July 6; v. 276; p. 156.
Tire, Pneumatic. R. P. McElrath. No. 55,630; July 6; v. 276; p. 164.
Tire-tread. W. O. Bruess. No. 55,588; July 6; v. 276; p. 156.

Tire-tread. C. O. Henderson. Nos. 55,611–12; July 6; v. 276; p. 160.
Toy. N. Segawa. No. 55,720; July 6; v. 276; p. 178.
Toy automobile. B. W. Spitler. 55,722; July 6; v. 276; p. 178.
Toy block. E. Bratton. No. 55,587; July 6; v. 276; p. 156.
Toy chair. M. L. Greenstreet. No. 55,607; July 6; v. 276; p. 159.
Toy, Flying. W. H. Van Shrum. No. 55,732; July 6; v. 276; p. 180.
Toy vehicle. F. Starr. No. 55,725; July 6; v. 276; p. 179.
Weeder. J. Gilson, Sr. No. 55,601; July 6; v. 276; p. 158.
Windshield. C. D. Keller. No. 55,618; July 6; v. 276; p. 162.
Wreath. L. Koropp and V. F. Bergman. No. 55,621; July 6; v. 276; p. 162.
Wrench. A. B. Carli. No. 55,591; July 6; v. 276; p. 157.

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Acetylene cutting and welding machines and lighting plants, steam-boilers. Allied Machinery Company of America. No. 132,872; July 6; v. 276; p. 199.
Aeroplane covers and tents. Handley Page Limited. No. 132,956; July 6; v. 276; p. 101.
Alcohol, Ethyl, U. S. Industrial Alcohol Co. No. 133,069; July 6; v. 276; p. 205.
Automobile-curtain window. Wm. R. Johnston Mfg. Co. No. 132,976; July 6; v. 276; p. 202.
Balls, Bowling-. Brunswick-Balke-Collender Company. No. 132,902; July 6; v. 276; p. 200.
Bandage, Catamenial. S. D. Trumbo. No. 133,044; July 6; v. 276; p. 204.
Batteries and parts thereof. Storage. A. H. Lyons. No. 132,994; July 6; v. 276; p. 202.
Batteries, Dry-cell. French Battery & Carbon Co. No. 132,947; July 6; v. 276; p. 201.
Batteries, Electric. Stuart Products Corporation. No. 133,051; July 6; v. 276; p. 204.
Batteries, electrical mine-lamps, and magnetos. Witherbee Igniter Company. No. 133,096; July 6; v. 276; p. 205.
Batteries and parts thereof, Storage. A. H. Lyons. No. 132,995; July 6; v. 276; p. 202.
Beverages, Non-intoxicating cereal. E. L. Ropkins. No. 133,028; July 6; v. 276; p. 203.
Billiard-cue tips. N. E. Bensinger. No. 132,896; July 6; v. 276; p. 199.
Brassières. C. V. Havens. No. 132,961; July 6; v. 276; p. 201.
Brassière combination-undergarments and undergarments for women. The Warner Brothers Company. No. 133,087; July 6; v. 276; p. 205.
Bread. Ward Baking Company. Nos. 133,083–5; July 6; v. 276; p. 205
Brooms. Crocker Broom and Brush Co. No. 132,922; July 6; v. 276; p. 200.
Brooms. Newton Broom Co. No. 133,009; July 6; v. 276; p. 203.
Brooms and brushes. M. Marcus. No. 132,997; July 6; v. 276; p. 202.
Brooms, brushes, and mops. Geo. A. Fink Co. No. 132,939; July 6; v. 276; p. 201.
Brushes. A. Bourjois & Co. No. 132,899; July 6; v. 276; p. 199.
Brushes, floor-brooms, dusters. J. C. Pushee & Sons. No. 133,023; July 6; v. 276; p. 203.
Brushes, Hat-. R. Swisky. No. 133,053; July 6; v. 276; p. 204.
Brushes, Shaving-. Kampfe Bros. Nos. 132,977–8; July 6; v. 276; p. 202.
Brushes, Shine-removing. A. J. Rheinberger. No. 133,025; July 6; v. 276; p. 203.
Bunting. C. H. Reed. No. 133,024; July 6; v. 276; p. 203.
Burs and breaches. Usona Dental Company. Nos. 133,073–4; July 6; v. 276; p. 205.
Chocolates. Shaffa Inc. No. 133,033; July 6; v. 276; p. 203.
Clock-dial. Mayclese. No. 133,000; July 6; v. 276; p. 202.
Clothes-lines. C. C. Davis. No. 132,925; July 6; v. 275; p. 200.
Coat, Shawl-. Louis Katzman, Inc. No. 132,979; July 6; v. 276; p. 202.
Coffee. L. H. Davis. No. 132,926; July 6; v. 276; p. 200.
Coffee. The E. C. Harley Company. Nos. 132,957–8; July 6; v. 276; p. 201.
Coffee, tea, spices, mustard, &c. David G. Evans' Coffee Co. No. 132,935; July 6; v. 276; p. 201.
Conduits, Ignition-wire. E. V. Stuart. No. 133,050; July 6; v. 276; p. 204.
Cookers, Fireless. The Diller Mfg. Co. No. 132,928; July 6; v. 276; p. 200.
Cord, Maitre-. Brownell & Company. No. 132,901; July 6; v. 276; p. 199.
Corn products, oatmeal, &c. H. Howson. No. 132,971; July 6; v. 276; p. 202.
Corsets. The Van Orden Company. Nos. 133,076–8; July 6; v. 276; p. 205.
Cream and nutmegs, Food-flavoring. The Brown Chemical Co. No. 132,900; July 6; v. 276; p. 199.
Cabinet and exercising apparatus, Sweat-. J. Cooper. No. 132,919; July 6; v. 276; p. 200.
Candies. Hawley & Hoops. No. 132,970; July 6; v. 276; p. 202.
Candy. American Candy Company. No. 132,877; July 6; v. 276; p. 199.
Candy. C. A. Crane. No. 132,921; July 6; v. 276; p. 200.
Candy. Schuler Chocolate Factory. Nos. 133,035–6; July 6; v. 276; pp. 203–4.
Canned fruits and vegetables. Herbert Packing Co. Nos. 132,965–6; July 6; v. 276; p. 201.
Canned vegetables. J. E. Barr Pickling & Preserving Company. Nos. 132,891–2; July 6; v. 276; p. 199.
Cards, Playing-. Root Playing Card Co. No. 133,027; July 6; v. 276; p. 203.
Cards, Playing-. The United States Playing Card Company. Nos. 133,070–1; July 6; v. 276; p. 205.
Cards, Playing-. W. D. Roy. No. 133,030; July 6; v. 276; p. 203.
Carpets. Harrod's Stores, Limited. No. 132,959; July 6; v. 276; p. 201.
Cars, Tank-. General American Tank Car Corporation. No. 132,948; July 6; v. 276; p. 201.
Castings, Malleable-iron. Fort Pitt Malleable Iron Co. No. 132,942; July 6; v. 276; p. 201.
Dental, medical, and surgical appliances. United Drug Company. No. 133,068; July 6; v. 276; p. 205.
Dental dam, surgeons' gloves, &c. United States Rubber Company. No. 133,072; July 6; v. 276; p. 205.
Dental pliers and forceps. Utica Drop Forging & Tool Company. No. 133,075; July 6; v. 276; p. 205.
Digester-tankage, Stock food. Standard By-Products Co. No. 133,045; July 6; v. 276; p. 204.
Doll-buggies. C. M. Farrer. No. 132,938; July 6; v. 276; p. 201.
Dolls. E. Shaver. No. 133,039; July 6; v. 276; p. 204.
Dolls. G. Pfeffer. No. 133,018; July 6; v. 276; p. 203.
Doughnuts. S. G. Leoffler, Jr. No. 132,988; July 6; v. 276; p. 202.
Dresses, House or apron. Sterling Manufacturing Company. No. 133,046; July 6; v. 276; p. 204.
Dresses, Ladies' and misses'. Mannie Solomon Company. No. 133,043; July 6; v. 276; p. 204.
Drills and shirtings. William Schall & Co. No. 133,034; July 6; v. 276; p. 203.
Electric accumulators or secondary batteries. H. Leitner and W. H. Exley. No. 132,987; July 6; v. 276; p. 202.
Electric-lighting plants, electric-storage-battery locomotives, &c., Isolated. Allied Machinery Company of America. No. 132,873; July 6; v. 276; p. 199.
Electric plants, Unitary. The Matthews Engineering Co. No. 132,998; July 6; v. 276; p. 202.
Electrodes, High-potential-electricity-arrester. F. R. Parker. No. 133,016; July 6; v. 276; p. 203.
Electromedical switchboard for electric-bath use. McIntosh Battery & Optical Co. No. 132,996; July 6; v. 276; p. 202.
Fabric made with a cotton warp and a filling of wool or mohair, &c. Lesher, Whitman & Co. No. 133,085; July 6; v. 276; p. 202.
Fabrics, Narrow woven. C. Prosnitz. No. 133,022; July 6; v. 276; p. 203.
Fabrics of silk and silk mixtures. Cheney Brothers. No. 132,911; July 6; v. 276; p. 200.
Fabrics, Woven, printed, and dyed drapery. A. M. Barbe. No. 132,890; July 6; v. 276; p. 199.
Fertilizer. The American Agricultural Chemical Company. No. 132,876; July 6; v. 276; p. 199.
Fishing-lines. Cortland Line Co. No. 132,920; July 6; v. 276; p. 200.
Fishing rods, hooks, nets, lines, &c. Cumberland (Aylestone), Limited. No. 132,924; July 6; v. 276; p. 200.
Flat-ware, Plated. Oneida Community. Nos. 133,012–14; July 6; v. 276; p. 203.
Flour, Wheat-. The Scott County Milling Company. No. 133,038; July 6; v. 276; p. 204.
Flour, Wheat-. Lawrenceburg Roller Mills Co. No. 132,986; July 6; v. 276; p. 202.
Flour, Wheat-. T. L. Carroll Company. No. 132,908; July 6; v. 276; p. 200.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 133,056; July 6; v. 276; p. 204.
Fruit and fresh vegetables. Atlantic Coast Distributors. No. 132,882; July 6; v. 276; p. 199.
Furnishing goods, hosiery, and notions, Men's and ladies'. Shushan Bros. & Co. No. 133,040; July 6; v. 276; p. 204.
Fuses and cut-outs Electric. Bussman Manufacturing Company. No. 132,907; July 6; v. 276; p. 200.
Games, Card. F. Hood. No. 132,969; July 6; v. 276; p. 202.

Garments, Men's and children's outer. Cohen, Goldman & Co. No. 132,912; July 6; v. 276; p. 200.
Golf-putters. Tru-Aim Manufacturing Company. No. 133,065; July 6; v. 276; p. 204.
Gowns. J. Nemser. No. 133,007; July 6; v. 276; p. 203.
Hair-clippers, motors, and hair-driers. Electric. The Moore Electric Corporation. No. 133,006; July 6; v. 276; p. 203.
Handkerchiefs. Hyman Bauman & Co. No. 132,894; July 6; v. 276; p. 199.
Handkerchiefs. S. I. Gross. No. 132,952; July 6; v. 276; p. 201.
Hearing, Mechanical devices used as an aid to. E. B. Meyrowitz, Inc. No. 133,001; July 6; v. 276; p. 203.
Heaters and furnaces, Coal-burning. Michigan Service Corporation. No. 133,002; July 6; v. 276; p. 203.
Heel and toe plates for shoes. L. Hasel. No. 132,930; July 6; v. 276; p. 201.
Hides and leather. Kullman, Salz & Co. No. 132,934; July 6; v. 276; p. 202.
Hosiery. Rodgers Hosiery Company. No. 133,026; July 6; v. 276; p. 203.
Hosiery. W. T. Grant Co. No. 132,951; July 6; v. 276; p. 201.
Insulators made of porcelain, Electric. Taylor, Tunnicliff and Company. No. 133,060; July 6; v. 276; p. 204.
Jam, preserves, jelly, and table-syrup, Pure fruit. W. H. Dyer Company. No. 132,933; July 6; v. 276; p. 200.
Jewelry. Distinctive Jewelry Co. No. 132,929; July 6; v. 276; p. 200.
Jewelry, &c. Tiffany & Company. No. 133,063; July 6; v. 276; p. 204.
Jewelry and pearls, Pearl. D. W. Thomas. No. 133,062; July 6; v. 276; p. 204.
Knitted dress goods known as jersey cloth in the piece, Ladies'. C. Bahnsen & Co. No. 132,889; July 6; v. 276; p. 199.
Lamps, Arc and incandescent electric. Energy Electric Company. No. 132,934; July 6; v. 276; p. 201.
Lamps, Electric. Maxwell-Ray Company. No. 132,999; July 6; v. 276; p. 202.
Lamps, Electric incandescent. General Electric Company. No. 132,949; July 6; v. 276; p. 201.
Lamps, Incandescent. Whitelite Electric Company. Co. Nos. 133,090–1; July 6; v. 276; p. 205.
Lamps, torches, lanterns, candelabra. Art Lamp Mfg. Co. No. 132,881; July 6; v. 276; p. 199.
Leather, and particularly kid-leather. Dungan, Hood & Co. No. 132,931; July 6; v. 276; p. 200.
Leather boots and shoes. Whitmore-Tirrell Shoe Corporation. No. 133,092; July 6; v. 276; p. 205.
Leather hides. The Tropics Corporation. No. 133,064; July 6; v. 276; p. 204.
Letters or numbers. Chas. F. Lorenzen & Co. Nos. 132,992–3; July 6; v. 276; p. 202.
Liniments, lotions, salves, ointments, and powders used in treating horses and cattle. The Converse Supply Company. No. 132,918; July 6; v. 276; p. 200.
Macaroni, spaghetti, and noodles. P. F. Skinner. No. 133,041; July 6; v. 276; p. 204.
Machinery, Electrical. The Imperial Electric Co. No. 132,973; July 6; v. 276; p. 202.
Manicure sets. Northam Warren Corporation. No. 133,010; July 6; v. 276; p. 203.
Mats, Floor-. E. Jackson. No. 132,975; July 6; v. 276; p. 202.
Metal, Non-ferrous. Bausch Machine Tool Company. No. 132,895; July 6; v. 276; p. 199.
Mirrors and retinoscopes, Dental, &c. A. A. Anzell. No. 132,880; July 6; v. 276; p. 199.
Mouth wash or spray. O. H. Tansey. No. 133,057; July 6; v. 276; p. 204.
Name-plates and instruction-plates, Blank. Handley Page Limited. No. 132,955; July 6; v. 276; p. 201.
Napkin-holders commercially known as sanitary belts. Sanabo Specialty Company. No. 133,032; July 6; v. 276; p. 203.
Notions. Waldes & Co. Nos. 133,079–82; July 6; v. 276; p. 205.
Nut-bars, Candied. Northwestern Candy Company. No. 133,011; July 6; v. 276; p. 203.
Paper fiber. M. B. Fredericks. No. 132,946; July 6; v. 276; p. 201.
Paste, Adhesive. Ideal Paste & Chemical Works. No. 132,972; July 6; v. 276; p. 202.
Piece goods. J. A. Migel, Inc. No. 133,003; July 6; v. 276; p. 203.
Plants, Rose-. The Conard & Jones Company. No. 132,915; July 6; v. 276; p. 200.
Powder for false teeth. G. L. Wernet. No. 133,088; July 6; v. 276; p. 205.
Powder-puffs. A. Gigho. No. 132,950; July 6; v. 276; p. 201.
Powder-puffs. Penn Rivet Corporation. No. 133,017; July 6; v. 276; p. 203.
Preparation for making cake. Atmore & Son. No. 132,883; July 6; v. 276; p. 199.
Ribbons in the piece, Silk. The Taylor-Friedsam Company. No. 133,059; July 6; v. 276; p. 204.
Rubber water-bags and bottles. The Miller Rubber Company. No. 133,004; July 6; v. 276; p. 203.
Roofing in the form of plates and sheets, Zinc. The American Zinc Products Company. No. 132,879; July 6; v. 276; p. 199.
Rope, Braided. Tate Manufacturing Company. No. 133,058; July 6; v. 276; p. 204.
Rope, cord, twine, and binder-twine. International Harvester Company. No. 132,974; July 6; v. 276; p. 202.
Seeds, Flower and sweet-pea. Oscar H. Will & Co. No. 133,093; July 6; v. 276; p. 205.
Seeds, Grass and field. Continental Seed Company. No. 132,917; July 6; v. 276; p. 200.
Seeds, Lawn and grass. Oscar H. Will & Co. No. 133,094; July 6; v. 276; p. 205.
Semitrailers. King Trailer Company. No. 132,980; July 6; v. 276; p. 202.
Shirts, work and night shirts, and pajamas, Mens' flannel. A. Krolik & Company. No. 132,983; July 6; v. 276; p. 202.
Shoes made of leather and cloth, Women's high and low. The Duttenhofer-Stevens Co. No. 132,932; July 6; v. 276; p. 200.
Silk and cotton piece goods and combinations of the same. Turner & Walls. No. 133,067; July 6; v. 276; p. 204.
Solvent or softener to facilitate the cleaning of certain named articles. Three In One Oil Company. No. 133,061; July 6; v. 276; p. 204.
Spark-plugs. Rummell Manufacturing Works. No. 133,031; July 6; v. 276; p. 203.
Spark-plugs. Stitt Ignition Co. No. 133,048; July 6; v. 276; p. 204.
Sparking plugs for internal-combustion engines. Forward Sparking Plug Co. No. 132,943; July 6; v. 276; p. 201.
Steel, iron, &c., Wrought. Connecticut Electric Steel Co. No. 132,916; July 6; v. 276; p. 200.
Stoves, Alcohol-. F. Chapman. No. 132,910; July 6; v. 276; p. 200.
Stovepipes and elbows. Hemp & Co. (Corp.). Nos. 132,962–4; July 6; v. 276; p. 201.
Syrup, Table-. The L. and T. Company. No. 132,985; July 6; v. 276; p. 202.
Teeth, Artificial. G. Flint. No. 132,940; July 6; v. 276; p. 201.
Textile fabrics in the piece, Worsted and woolen. Holden-Leonard Company. Nos. 132,967–8; July 6; v. 276; p. 202.
Thread and yarn. H. E. Locke & Company. No. 132,991; July 6; v. 276; p. 202.
Thread or yarn, Mercerized cotton. Summit Thread Company. No. 133,052; July 6; v. 276; p. 204.
Thread, Shoe-. Commonwealth Thread Co. Nos. 132,913–4; v. 276; July 6; p. 200.
Thermometers, sphygmomanometers, &c., Clinical. C. J. Taglibue Mfg. Co. Nos. 133,054–5; July 6; v. 276; p. 204.
Timepieces. F. W. Alter. No. 132,875; July 6; v. 276; p. 199.
Toy aeroplanes. P. Pierce. No. 133,019; July 6; v. 276; p. 203.
Toothbrushes. M. Levy. No. 133,990; July 6; v. 276; p. 202.
Toy furniture. R. W. Porter. No. 133,020; July 6; v. 276; p. 203.
Toy savings-banks. M. Stoltz. No. 133,049; July 6; v. 276; p. 204.
Toy soldiers, dishes, and furniture. Ferdinand Gutmann & Co. No. 132,954; July 6; v. 276; p. 201.
Toy vehicle E. G. Kirtz. No. 132,981; July 6; v. 276; p. 202.
Toy vehicle—viz., coaster. R. H. Blackburn. No. 132,898; July 6; v. 276; p. 199.
Trucks, Motor-. Ward La France Truck Co. No. 133,086; July 6; v. 276; p. 205.
Union-suits, Woven and knitted. Neustadter Brothers. No. 133,008; July 6; v. 276; p. 203.
Vacuum tube devices, parts and accessories therefor. Wireless Specialty Apparatus Company. No. 133,095; July 6; v. 276; p. 205.
Valves, Automatic relief-. Dew Valve Co. No. 132,927; July 6; v. 276; p. 200.
Valves for general use, pump-governors, and pressure-reducing valves, Metal. Framingham Manufacturing Company. No. 132,944; July 6; v. 276; p. 201.
Varnish-paint. Ault & Wiborg Co. Nos. 132,884–8; July 6; v. 276; p. 199.
Varnishes for electric insulation. The Sterling Varnish Company. No. 133,047; July 6; v. 276; p. 204.
Vegetables, Dehydrated. Twin Falls Dehydrating Co. No. 133,066; July 6; v. 276; p. 204.
Vegetables, Fresh. Crown Packing Company. No. 132,923; July 6; v. 276; p. 200.
Voiles in the piece. M. Schwarz. No. 133,037; July 6; v. 276; p. 204.
Watch and clock dials. J. R. Bartlett. No. 132,893; July 6; v. 276; p. 199.
Watch and clock dials, Protective facings or coverings for. I. Florman. No. 132,941; July 6; v. 276; p. 201.
Watchcases. Roy Watch Case Company. No. 133,029; July 6; v. 276; p. 203.
Watches. Dubois Watch Case Company. No. 132,930; July 6; v. 276; p. 200.
Watches. J. Bulova Company. Nos. 132,903–6; July 6; v. 276; p. 200.
Watches. Knickerbocker Watch Co. No. 132,982; July 6; v. 276; p. 202.
Watches. The D. Gruen Sons & Company. No. 132,953; July 6; v. 276; p. 201.

Watches. W. J. Bernard. No. 132,897; July 6; v. 276; p. 199.
Watches and parts thereof. Société Anonyme Les fils de L. Braunschweig, Fabrique Election. No. 133,042; July 6; v. 276; p. 204.
Waste cotton, silk, and waste paper, &c., Bales or bags of. M. Frank. No. 132,945; July 6; v. 276; p. 201.
Water-bottles, syringe-bags, &c. The Miller Rubber Co. No. 133,005; July 6; v. 276; p. 203.
Webs, Elastic. Faire Bros. & Co. Nos. 132,936–7; July 6; v. 276; p. 201.
Windshield-cleaners. Outlook Company. No. 133,015; July 6; v. 276; p. 203.
Wiping and cleaning apparatus for automobile windshields, &c. Presto-Felt Mfg. Co. No. 133,021; July 6; v. 276; p. 203.
Wire and manila ropes and wire cables. Western Rope & Manufacturing Company. No. 133,089; July 6; v. 276; p. 205.
Yarn, Knitting-. Carver-Beaver Yarn Co. No. 132,909; July 6; v. 276; p. 200.

ALPHABETICAL LIST OF LABELS.

"Toyland Special." (For Crackers Known as Toyland Special and Cut in the Shape of a Car.) P. I. Jacoby. No. 21,903; July 6; v. 276; p. 206.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Air-heating apparatus and parts thereof, Electrical. P. J. H. Bernard. No. 125,650; July 6; v. 276; p. 184.
Alloys, Base-metal. W. W. Holland. No. 132,861; July 6; v. 276; p. 196.
Apples and pears, Fresh. Naches Cold Storage Co. No. 131,446; July 6; v. 276; p. 191.
Art-feature title. Public Ledger Company. No. 124,049; July 6; v. 276; p. 184.
Axes, shovels, scoops, &c. Nixon Hardware Co. No. 127,443; July 6; v. 276; p. 186.
Balsam for the treatment of constipation, flatulency, &c. F. Ad. Richter & Co. No. 121,262; July 6; v. 276; p. 183.
Beverage, Malt. Keeley Brewing Co. No. 129,847; July 6; v. 276; p. 189.
Beverage, Non-intoxicating cereal. The Stark Tuscarawas Co. No. 128,471; July 6; v. 276; p. 188.
Beverages, Bottled malt. Jackson Brewing Company. No. 127,512; July 6; v. 276; p. 186.
Beverages containing malt. Independent Brewing Company of Pittsburgh. No. 120,389; July 6; v. 276; p. 182.
Beverages in the form of a syrup or carbonated in bottles, Non-alcoholic. Southern Beverage Company. No. 131,509; July 6; v. 276; p. 191.
Beverages, Non-alcoholic. Ohio Valley Bottling Works. No. 126,056; July 6; v. 276; p. 105.
Blankets, Manufactured. Edson Moore & Company. No. 132,104; July 6; v. 276; p. 194.
Blanks, Legal. W. S. Tuttle. No. 132,126; July 6; v. 276; p. 194.
Blouses, kimonos, &c. F. A. Patrick & Co. No. 130,923; July 6; v. 276; p. 190.
Booklet published annually, Printed. E. J. Elbury. No. 132,348; July 6; v. 276; p. 195.
Brisling and sild. The Oversea Export Co. No. 129,652; July 6; v. 276; p. 189.
Bugles, trombones, reverse-horns, &c. The Rex Metal Products Company. No. 131,089; July 6; v. 276; p. 191.
Buttons and attaching-thread, Outfit consisting of garment-. Wenck & Co. No. 130,112; July 6; v. 276; p. 189.
Candies. Eye Brand Confectionery, Inc. No. 115,342; July 6; v. 276; p. 181.
Candies. Wallace & Co. No. 131,716; July 6; v. 276; p. 192.
Candy. Busath's Candy Shop. No. 131,774; July 6; v. 276; p. 192.
Canned fruits and vegetables. Herbert Packing Co. No. 127,646; July 6; v. 276; p. 186.
Carbureters. Carter Carburetor Company. Nos. 133,517–8; July 6; v. 276; p. 197.
Cartoons. W. F. Bartsch. No. 132,424; July 6; v. 276; p. 195.
Catalogue, Annual. Julius Roehrs Co. No. 132,049; July 6; v. 276; p. 194.
Catalogues, Style-. The Little Duchess Dress Co. No. 123,127; July 6; v. 276; p. 183.
Ceilings, Metal. The Berger Manufacturing Company. No. 132,502; July 6; v. 276; p. 196.
Cement, Boiler-wall. M. M. Casamer. No. 131,816; July 6; v. 276; p. 193.
Cement, Portland. The Edison Portland Cement Company. No. 119,232; July 6; v. 276; p. 182.
Cement, Portland. V. V. Lebedjeff Engineering & Supply Corporation. No. 118,055; July 6; v. 276; p. 181.
Cement stucco. Nebraska Material Company. No. 129,019; July 6; v. 276; p. 188.
Charms, pendants, &c. Miller and Hunold. No. 130,484; July 6; v. 276; p. 190.
Cigars. Bramore Cigar Co. No. 122,878; July 6; v. 276; p. 183.
Cigars. Henry Clay and Bock & Co. No. 129,445; July 6; v. 276; p. 188.
Clothing. H. M. Baron. No. 132,079; July 6; v. 276; p. 194.
Clothing, Women's and misses'. L. Levine and Sons. No. 129,936; July 6; v. 276; p. 189.
Cloths and stuffs of wool in the piece. The Scottish Woolen Trade Mark Association. No. 126,750; July 6; v. 276; p. 185.
Coats, cloaks, wraps, &c., Women's, children's, and infants'. The Salt's Textile Manufacturing Company. No. 132,122; July 6; v. 276; p. 194.
Coats, trousers, vests, overcoats, outer skirts, and suits for men, women, and children. The M. & M. Company. No. 131,645; July 6; v. 276; p. 192.
Coffee, Decaffeinated. Kaffee Hag Corporation. No. 131,335; July 6; v. 275; p. 191.
Concrete-hardener. R. Greenstein. No. 131,599; July 6; v. 276; p. 192.
Cotton piece goods. Samuel Hymes & Sons. No. 131,269; July 6; v. 276; p. 191.
Cutlery, razors, shears, and butcher-knives, Pocket- Union Cutlery Co. No. 131,290; July 6; v. 276; p. 191.
Dresses. O'Gorman, Wade & Powers Co. No. 132,110; July 6; v. 276; p. 194.
Dresses, Women's and children's. Elseman Bros. Mfg. Co. No. 130,812; July 6; v. 276; p. 190.
Engines and parts thereof, Internal-combustion. Aktiebolaget Spritmotorer. No. 132,768; July 6; v. 276; p. 196.
Engines and their parts, Internal-combustion. Supreme Motors Corporation. No. 132,757; July 6; v. 276; p. 196.
Feed, Stock, dairy, and poultry. The Superior Feed Co. No. 127,787; July 6; v. 276; p. 187.
Fire brick and tile. Laclede-Christy Clay Products Company. No. 120,214; July 6; v. 276; p. 182.
Fish products. Smith Bros. No. 132,031; July 6; v. 276; p. 194.
Flatirons, Electric. Chicago Flexible Shaft Company. No. 122,112; July 6; v. 276; p. 188.
Flooring, Composition. Linotol Flooring Co. No. 128,214; July 6; v. 276; p. 187.
Flour and cornmeal. St. Albans Grain Company. No. 130,694; July 6; v. 276; p. 190.
Flour, prepared flour, buckwheat-flour, &c. Ballard and Ballard Company. No. 132,001; July 6; v. 276; p. 193.
Flour, Wheat-. Borden Brothers and Co. No. 132,000; July 6; v. 276; p. 193.
Flour, Wheat-. The Larabee Flour Mills Corporation. No. 133,359; July 6; v. 276; p. 197.
Flour, Wheat-. The Larabee Flour Mills Corporation. No. 133,364; July 6; v. 276; p. 197.
Flour, Wheat-. The Larabee Flour Mills Corporation. No. 133,366; July 6; v. 276; p. 197.
Flour, Wheat-. The Larabee Flour Mills Corporation. No. 133,368; July 6; v. 276; p. 197.
Food composition. The Virocacao Company. No. 115,080; July 6; v. 276; p. 184.
Games. Dodo Board Company. No. 127,581; July 6; v. 276; p. 186.
Gasolene, kerosene, lubricating-oil. Producers & Refiners Corporation. No. 127,697; July 6; v. 276; p. 186.
Ginger-ale. J. E. Marceau. No. 128,449; July 6; v. 276; p. 188.
Ginger-tea tablets. The E. L. Patch Co. No. 129,799; July 6; v. 276; p. 189.
Glue. G. Mayer. No. 121,840; July 6; v. 276; p. 183.
Grape-soda. The Coca-Cola Bottling Co. No. 128,079; July 6; v. 276; p. 187.
Grease-cups. Merchant & Evans Company. No. 132,105; July 6; v. 276; p. 194.
Hats and caps, Men's. Rogers Peet Company. No. 131,921; July 6; v. 276; p. 193.
Horns, Electric. American Electric Co. No. 129,962; July 6; v. 276; p. 189.
Hosiery. L. D. Boyd. No. 130,204; July 6; v. 276; p. 190.
Hosiery. New Haven Knitting Mills. No. 131,822; July 6; v. 276; p. 193.
Hosiery. J. P. Voorhees. No. 132,456; July 6; v. 276; p. 195.
Jacks. Sunderman Corporation. No. 132,205; July 6; v. 276; p. 195.
Knit goods. Bender-Zimmer Company. No. 132,460; July 6; v. 276; p. 196.
Knives, Pocket-. The Liberty Knife Company. No. 132,540; July 6; v. 276; p. 196.
Lard compound and peanut-butter. International Vegetable Oil Company. No. 117,187; July 6; v. 276; p. 181.
Lighting fixtures, shades, and reflectors, Electric-. Overbagh & Ayres Mfg. Co. No. 124,866; July 6; v. 276; p. 184.
Lumber, Rough hardwood. Climax Lumber Company. No. 124,135; July 6; v. 276; p. 184.
Machines, attachments, and parts, Knitting-. Scott & Williams. No. 132,151; July 6; v. 276; p. 194.
Necktie holders or supporters, suspenders, &c. J. Pabst. No. 126,873; July 6; v. 276; p. 185.
Newspaper-section. Star Company. No. 128,467; July 6; v. 276; p. 188.
Oil, Olive-. L. Benjamin & Sons. No. 130,199; July 6; v. 276; p. 190.
Oils, Fuel-. Ajax Oil Company. No. 125,679; July 6; v. 276; p. 184.

(REGISTRATION APPLIED FOR.)

Oleomargarin. Palmine Company. No. 133,375; July 6; v. 276; p. 197.
Oven, Baker's electric. Electrik Maid Bake Shops. No. 128,548; July 6; v. 276; p. 188.
Overalls, hosiery, and dresses for ladies and misses, hats and caps for men and women, &c. Sanger Brothers. No. 132,366; July 6; v. 276; p. 195.
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Phonographic needles. W. H. Bagshaw Co. No. 131,696; July 6; v. 276; p. 192.
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Plaster, Calcined. Newark Plaster Co. No. 118,322; July 6; v. 276; p. 182.
Plugs for dry oil and gas wells, metal pipe, &c., Metal. The National Supply Company. No. 118,060; July 6; v. 276; p. 182.
Preparation for treatment of kidney, liver, &c., debility. J. Gibbs. No. 126,021; July 6; v. 276; p. 185.
Preparation for the treatment of rheumatism. Frank Russo and Antonio Cavallare. No. 128,981; July 6; v. 276; p. 188.
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Publication, Periodical. W. B. Frost. No. 127,584; July 6; v. 276; p. 186.
Publication, Weekly. M. Bloomfield. No. 122,968; July 6; v. 276; p. 183.
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Roofing and siding, Metal. The Hyndman Roofing Company. No. 123,209; July 6; v. 276; p. 184.
Root-beer. The Omar Co. No. 131,317; July 6; v. 276; p. 191.
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Russian, salad, and French dressings, &c. S. Mervis. No. 127,972; July 6; v. 276; p. 187.
Saws. Simonds Manufacturing Company. Nos. 132,820–1; July 6; v. 276; p. 196.
Saws. Simonds Manufacturing Company. No. 133,108; July 6; v. 276; p. 197.
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Shovels, Mechanical. Lake Superior Loader Co. No. 132,747; July 6; v. 276; p. 196.
Soda-water. Cairo Food Products Company. No. 127,891; July 6; v. 276; p. 187.
Soups, Dehydrated and condensed. Nocan Soup Company. No. 122,722; July 6; v. 276; p. 183.
Stamp-canceling and postmarking, Hand devices for. Columbia Postal Supply Company. No. 131,564; July 6; v. 276; p. 192.
Suspenders, garters, &c. New York Boys' Shops. No. 130,977; July 6; v. 276; p. 191.
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Tissue, Chemical. G. W. Brady. No. 129,694; July 6; v. 276; p. 189.
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Tractors, Industrial. Marsh-Capron Mfg. Co. No. 110,417; July 6; v. 276; p. 181.
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Typewriter-ribbons and carbon-papers. S. W. Fry. No. 130,757; July 6; v. 276; p. 190.
Typewriting-machines. F. Bertaralli. No. 131,143; July 6; v. 276; p. 191.
Typewriting-machines, Device for feeding envelops to. The American Speed-O-Feeder Company. No. 131,618; July 6; v. 276; p. 192.
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CLASSIFICATION OF PATENTS

ISSUED JULY 6, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 35: 1,345,876
2— 73: 1,345,620
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186: 1,345,547
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144: 1,345,710
145: 1,345,744
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304: 1,345,428
1,345,844
240— 2: 1,345,752
8.4: 1,345,962
41: 1,345,793
103: 1,345,796

240— 115: 1,345,741
241— 8: 1,345,750
1,345,800
9: 1,345,917
12: 1,345,969
242— 6: 1,345,957
55: 1,345,355
57: 1,345,813
134: 1,345,883
243— 10: 1,346,042
244— 2: 1,345,833
3: 1,345,417
15: 1,345,726
21: 1,345,533
1,345,582
1,345,970
31: 1,345,885
246— 34: 1,345,646
40: 1,345,816
163: 1,346,009
186: 1,345,753
187: 1,345,509
448: 1,345,580
247— 7: 1,345,489
19: 1,345,502
1,345,503
248— 1: 1,345,910
18: 1,345,977
19: 1,345,344
20: 1,345,463
58: 1,345,857
249— 16: 1,345,866
56: 1,345,838
250— 2: 1,345,586
37: 1,345,352
41: 1,345,754
251— 4: 1,345,518
6: 1,345,841
47: 1,345,388
90: 1,345,382
106: 1,345,934
132: 1,345,496

251— 136: 1,345,591
159: 1,345,615
241: 1,345,763
253— 77: 1,345,642
1,345,676
78: 1,345,674
122: 1,345,488
254— 4: 1,345,992
9: 1,345,564
89: 1,345,842
103: 1,345,797
255— 51: 1,345,731
61: 1,345,854
257— 172: 1,345,603
259— 5: 1,345,596
107: 1,345,542
144: 1,345,521
261— 18: 1,345,546
263— 44: 1,345,749
264— 1: 1,346,071
265— 36: 1,345,587
266— 5: 1,345,563
267— 10: 1,345,514
69: 1,345,945
268— 4: 1,345,471
271— 18: 1,345,564
28: 1,345,950
53: 1,345,742
274— 28: 1,345,756
73: 1,345,487
275— 2: 1,345,362
5: 1,345,427
277— 3: 1,345,772
18: 1,345,751
66: 1,345,643
279— 53: 1,345,698
74: 1,345,583
280— 12: 1,345,825
14: 1,346,052
49: 1,345,469
50: 1,345,470

281— 6: 1,345,558
283— 18: 1,346,005
284— 17: 1,345,520
19: 1,345,571
285— 22: R. 14,906
26: 1,345,473
90: 1,345,971
107: 1,345,396
185: 1,345,778
194: 1,345,543
286— 11: 1,345,372
287— 116: 1,345,982
290— 35: 1,345,566
36: 1,345,540
44: 1,345,556
292— 63: 1,345,928
67: 1,346,065
315: 1,345,806
336: 1,345,913
293— 55: 1,345,553
1,345,554
1,346,048
58: 1,345,916
294— 19: 1,346,022
26: 1,345,889
106: 1,345,930
295— 8.5: 1,345,738
296— 65: 1,345,931
95: 1,345,585
1,345,826
138: 1,345,901
145: 1,345,602
298— 1: 1,345,616
299— 9: 1,346,047
114: 1,345,598
138: 1,345,803
301— 15: 1,345,522
35: 1,345,670
112: 1,345,545

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF JULY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A-Z Company, The. (See Hanmer, Laurence G., assignor.)
Acre, Ray E. (See Andrews, E. F., and Acre.)
Adams, Lewis M., Ridgefield Park, N. J. Typographic plate. No. 1,346,583; July 13; v. 276; p. 309.
Aigner, George J., Chicago, Ill. Index-tab. No. 1,346,101; July 13; v. 276; p. 215.
Alberico, Antonio, Joliet, Ill. Aeroplane. No. 1,346,107; July 13; v. 276; p. 216.
Albinson, Alvin, Minneapolis, Minn. Plaster gage and reinforcement. No. 1,346,437; July 13; v. 276; p. 281.
Albright, Andrew, Jr. (See Golly, Louis.)
Allee, William L., Topeka, Kans. Brace. No. 1,346,736; July 13; v. 276; p. 340.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,346,102; July 13; v. 276; p. 215.
Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company. Tension-controlling mechanism for sewing-machines. No. 1,346,103; July 13; v. 276; p. 215.
Allen, Victor M., Shinglehouse, Pa. Combined ventilator and shade. No. 1,346,800; July 13; v. 276; p. 354.
Altick, Harold K., Dayton, Ohio. Automatic gear-shift for automobiles. No. 1,346,151; July 13; v. 276; p. 224.
Altman, Harvey P., Findlay, Ohio. Auxiliary spark-gap. No. 1,346,522; July 13; v. 276; p. 297.
American Hardware Corporation, The. (See Teich, Ernest L., assignor.)
American Optical Company. (See Bugbee, L. W., and Tillyer, assignors.)
American Warp Drawing Machine Company. (See Lea, Charles, assignor.)
Amos, Ora and R., and E. A. McKee, Edinburg, Ind. Loading and hauling automobile-truck. No. 1,346,152; July 13; v. 276; p. 224.
Amos, Roy. (See Amos, Ora and R., and McKee.)
Anderson, Albert R. (See Anderson, John W., Jr., and A. R.)
Anderson Company, The. (See Anderson, John W., Jr., and A. R., assignors.)
Anderson, John W., Jr., Mishawaka, Ind., and A. R. Anderson, Chicago, Ill., assignors to The Anderson Company, South Bend, Ind. Combined motor and fuel control. No. 1,346,477; July 13; v. 276; p. 288.
Anderson, Sigurd E., Des Moines, Iowa. Cement-stave machine. No. 1,346,779; July 13; v. 276; p. 349.
Andrews, Edward F., Chicago, and R. E. Acre, Wheaton, assignors to Universal Engineering Company, Maywood, Ill. Brush-rigging for dynamo-electric machines. No. 1,346,108; July 13; v. 276; p. 216.
Angle, Edward H., Pasadena, Calif. Orthodontic implement. No. 1,346,584; July 13; v. 276; p. 310.
Appelbaum, Alan I., assignor to The Import and By Products Company, Incorporated, Trenton, N. J. Sulfur color and manufacturing same from aloe resin. No. 1,346,153; July 13; v. 276; p. 224.
Appelbaum, Alan I., assignor to The Import and By Products Company, Incorporated, Trenton, N. J. Sulfur color and manufacturing same from aloes. No. 1,346,154; July 13; v. 276; p. 224.
Arnold, George A., Irwin, and E. J. Gross, Trafford, Pa. Resilient tire. No. 1,346,155; July 13; v. 276; p. 225.
Arnold Print Works. (See Jones, Samuel M., assignor.)
Aronne, Louis. (See Rogati, A., and Aronne.)
Arter, Leroy H., Warren, Ohio. Shoe-shining cabinet. No. 1,346,585; July 13; v. 276; p. 310.
Aseptic Service Company. (See Rees, Warren C., assignor.)
Ashby, Sydney G. (See Barningham, V., and Ashby.)
Ashton, Hannah, executrix. (See Ashton, Orrell.)
Athens Bindery Company, The. (See Crippen, Henry M., assignor.)
Atkinson, Arthur F. (See Ullman, E. B., Simmonds, and Atkinson.)
Aston, Albert A., Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fasteners. No. 1,346,157; July 13; v. 276; p. 225.
Astley, Robert, Boston, Mass. Folding device. No. 1,346,109; July 13; v. 276; p. 216.
Ashton, Orrell, deceased; H. Ashton, executrix, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-tip-measuring mechanism. No. 1,346,156; July 13; v. 276; p. 225.
Atteberry, William A., assignor of one-fourth to O. A. Sewell and one-fourth to P. A. Fox, Coweta, Okla. Valve. No. 1,346,737; July 13; v. 276; p. 340.
Atwood, Harry A., Milwaukee, Wis. Chair. No. 1,346,110; July 13; v. 276; p. 216.
Babcock, Courtlandt W., Stonington, Conn. Chart-holder. No. 1,346,691; July 13; v. 276; p. 331.
Baer, Samuel H. (See George, Alexander W., assignor.)
Bailey, Charles W., and J. H. Stewart, Lynn, Mass.; said Bailey assignor to said Stewart. Cutting-machine. No. 1,346,626; July 13; v. 276; p. 318.
Baily, Thaddeus F., and F. T. Cope, Alliance, Ohio. Continuous tire-vulcanizing machine. No. 1,346,158; July 13; v. 276; p. 225.
Baker, Elbridge, assignor of one-fourth to E. P. Tucker, one-fourth to G. W. Tackabury, and one-fourth to G. D. Robertson, Los Angeles, Calif. Harvesting-machine. No. 1,346,159; July 13; v. 276; p. 225.
Baker-Vawter Company. (See Manny, Fred L., assignor.)
Balaguer, Andres Marianao, Habana, Cuba. Resilient tire for vehicle-wheels. No. 1,346,692; July 13; v. 276; p. 331.
Ballard, Charles S., assignee. (See Washburn, Howard L., assignor.)
Ballou, B. A., & Co. (See Lahey, Edgar C., assignor.)
Ballou, Frank H., Newark, Ohio. Product assorting and distributing machine. No. 1,346,438; July 13; v. 276; p. 281.
Barber, Ada S. (See Barber, William, assignor.)
Barber, George A., Chicago, Ill., assignor to J. V. McManis, Kirksville, Mo. Table-supporting mechanism. No. 1,346,586; July 13; v. 276; p. 310.
Barber, William, New York, assignor to A. S. Barber, Brooklyn, N. Y. Tire-tread. No. 1,346,627; July 13; v. 276; p. 318.
Bard, Francis N., Highland Park, Ill. Composite non-metallic gasket. No. 1,346,523; July 13; v. 276; p. 298.
Bard, Francis N., Highland Park, Ill. Composite non-metallic gasket. No. 1,346,524; July 13; v. 276; p. 298.
Barlow, Samuel E., Denver, Colo. Power-operated tongs. No. 1,346,160; July 13; v. 276; p. 226.
Barnes & Kobert Manufacturing Company, The. (See Benedict, Paul M., assignor.)
Barningham, Vincent, Reading, and S. G. Ashby, Edenbridge, England. Automatic brake. No. 1,346,628; July 13; v. 276; p. 318.
Bartholomew, Fred R. (See Vierling, Bartholomew, and Smith.)
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Washing-machine cylinder. No. 1,346,291; July 13; v. 276; p. 252.
Bartram, George C., Massapequa, assignor to United Concrete Pipe Co., New York, N. Y. Reinforced-concrete pipe. No. 1,346,629; July 13; v. 276; p. 319.
Basquin, Olin H., Evanston, Ill., assignor to Haskelite Manufacturing Corporation. Bent ply-wood and bending same. No. 1,346,161; July 13; v. 276; p. 226.
Bassett, William H., East Orange, N. J., assignor to Powers Accounting Machine Company, New York, N. Y. Statistical-record card. No. 1,346,162; July 13; v. 276; p. 226.
Bastian, Charles O., London, England. Means for positively indicating the condition of steel during heat treatment. No. 1,346,693; July 13; v. 276; p. 331.
Baumgarti, Leroy, Chicago, Ill. Automobile-bumper. No. 1,346,478; July 13; v. 276; p. 289.
Baush Machine Tool Company. (See Cannell, William, assignor.)
Bayles, Ernest A., and H. Higham, Helsby, England. Electrical condenser. No. 1,346,694; July 13; v. 276; p. 332.
Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Roller-bearing construction. No. 1,346,163; July 13; v. 276; p. 226.

Beaupré, Enid, Albany, N. Y. Game apparatus. No. 1,346,738; July 13; v. 276; p. 340.
Becklund, John A., Centralia, Wash. Steam turbine-engine. No. 1,346,292; July 13; v. 276; p. 253.
Beetem, Frank G., Washington, D. C. Binding-post. No. 1,346,525; July 13; v. 276; p. 298.
Behrens, Hugo E., Fargo, N. D. Grain-separator. No. 1,346,630; July 13; v. 276; p. 319.
Beidler, George C., Rochester, N. Y. Method of and device for developing films. No. 1,346,780; July 13; v. 276; p. 349.
Bell, Robert J., assignor to Bell's Auto Memo Co., Incorporated, Richmond, Va. Memorandum device. No. 1,346,479; July 13; v. 276; p. 289.
Bell's Auto Memo Co. (See Bell, Robert J., assignor.)
Belz, Edward P., Athens, Wis. Harness trace-chain. No. 1,346,439; July 13; v. 276; p. 281.
Benedict, Emory J., and M. C. Frost, Memphis, Tenn. Resilient tire. No. 1,346,695; July 13; v. 276; p. 332.
Benedict, Paul M., New Haven, assignor to The Barnes & Kobert Manufacturing Company, Millidale, Conn. Electric riveting-machine. No. 1,346,631; July 13; v. 276; p. 319.
Bennett, Alan M., assignor of one-half to C. H. Florandin, Westfield, N. J. Arc-welding generator. No. 1,346,164; July 13; v. 276; p. 226.
Bennett, Frank S., Philadelphia, Pa. Inner-tube covering for tires. No. 1,346,632; July 13; v. 276; p. 319.
Bennett, Lu Ella, Sutherland, Mont. Stove-leg. No. 1,346,526; July 13; v. 276; p. 298.
Bergeron, Arthur J., New York, N. Y. Rope-lock for pulleys. No. 1,346,696; July 13; v. 276; p. 332.
Bergman, Simon, New York, N. Y. Carton for cups and similar articles. No. 1,346,792; July 13; v. 276; p. 352.
Bernstein, Peter, Boston, Mass. Portable gas-heater. No. 1,346,587; July 13; v. 276; p. 310.
Bergve, Einar, Notodden, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Decomposition of alkali-metal minerals. No. 1,346,365; July 13; v. 276; p. 266.
Bernert, George and J., assignors to Bernert Manufacturing Company, Milwaukee, Wis. Feed-drum for pneumatic elevators. No. 1,346,293; July 13; v. 276; p. 253.
Bernert, Jacob. (See Bernert, George and J.)
Bernert Manufacturing Company. (See Bernert, George and J., assignors.)
Bernhard, Jakob, Hasle, near Ruegsau, and A. Meister, Ruegsau, Switzerland. Pneumatic hammer. No. 1,346,166; July 13; v. 276; p. 227.
Berrenberg, Reinold, Boston, Mass. Apparatus for producing high pressures. No. 1,346,165; July 13; v. 276; p. 226.
Bird, Richard E., Wichita, Kans. Fuel-line lock. No. 1,346,480; July 13; v. 276; p. 289.
Blevins, David T. (See Lewis, W. K., and Blevins.)
Boden, Oscar J. (See Petersen, C. M., and Boden.)
Boedtcher, Franz A. Bergenfield, N. J. Combined locking and circuit-controlling device for double doors. No. 1,346,111; July 13; v. 276; p. 216.
Bohanon, Budd D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Tip-measuring apparatus. No. 1,346,167; July 13; v. 276; p. 227.
Boltshauser, Conrad, assignor to Comp., Phoebus E. G., Zurich, Switzerland. Electric pocket-lamp. No. 1,346,104; July 13; v. 276; p. 215.
Bosse, Charles O., Tacoma, Wash. Adjustable countersink. No. 1,346,105; July 13; v. 276; p. 216.
Boswell, Fletcher O., Philadelphia, Pa. Compound rail and electrical conductor. No. 1,346,168; July 13; v. 276; p. 227.
Bousfield, John H. A., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Scale. No. 1,346,481; July 13; v. 276; p. 289.
Bower, Harry A., Boston, Mass. Practice-drum. No. 1,346,588; July 13; v. 276; p. 310.
Boyd, James K., Wilkinsburg, Pa. Compound rail. No. 1,346,394; July 13; v. 276; p. 272.
Bradbury, Clifford C., Oak Park, Ill. Vacuum feed mechanism. No. 1,346,482; July 13; v. 276; p. 289.
Bradfield, Clyde C., Harbor Springs, Mich. Meter-support. No. 1,346,440; July 13; v. 276; p. 281.
Bragdon, George W., Smyrna Mills, assignor of one-fourth to P. H. Tarbell and one-fourth to H. J. Tarbell, Merrill, Me. Sewing-machine. No. 1,346,169; July 13; v. 276; p. 227.
Brandt, Fokko H. G., and G. K. Krell, Kansas City, Mo. Adjustable stringer-support for scaffolds. No. 1,346,170; July 13; v. 276; p. 228.
Bredlik, Vladimir, New York, N. Y. Purification of ammonium salts. No. 1,346,106; July 13; v. 276; p. 216.
Brenner, Richard M., Palisade, N. J. Race-game apparatus. No. 1,346,697; July 13; v. 276; p. 332.
Briggs, Charles A. (See Cooper, Hamilton A., assignor.)
Brinker, Samuel N., Minneapolis, Minn. Car-brake. No. 1,346,171; July 13; v. 276; p. 228.
Brock, Edward J. (See Treichel, A. R., and Brock.)
Brokaw-Eden Company. (See Settlage, Rudolph F., assignor.)
Brookfield, Douglas Holloway, London, England. Smelting-furnace. No. 1,346,527; July 13; v. 276; p. 298.
Brooks, J. B., and Company. (See Jenkins, Alexander H., assignor.)
Brown, Harry M., assignor to Spring Stopper Company, Brooklyn, N. Y. Glass-severing implement. No. 1,346,528; July 13; v. 276; p. 298.
Brown, Horace P. (See Johnston, Clarance L., assignor.)
Brown, William D., Somerset, Ky. Shock-absorber. No. 1,346,739; July 13; v. 276; p. 340.
Browning, George, Chicago, Ill. Safety-razor. No. 1,346,294; July 13; v. 276; p. 253.
Brunelli, Tito L., Clearfield, Pa. Electrical fire-lighting attachment for stoves. No. 1,346,698; July 13; v. 276; p. 332.
Bruns, Richard E., Chicago, Ill. Sealing-cap. No. 1,346,112; July 13; v. 276; p. 217.
Buckham, George T. (See Dawson, A. T., and Buckham.)
Bugbee, Lucian W., and E. D. Tillyer, assignors to American Optical Company, Southbridge, Mass. Illumination. No. 1,346,172; July 13; v. 276; p. 228.
Bunnell, Rose P., administratrix. (See Bunnell, W. O., and Gates.)
Bunnell, William O., deceased, and Q. A. Gates, Wilkes-Barre, Pa.; R. P. Bunnell, executrix. Electric heater. No. 1,346,793; July 13; v. 276; p. 352.
Bunting Brass & Bronze Company, The. (See Donaldson, Augustus F., assignor.)
Burd, Charles. (See Burd, George and C.)
Burd, George and C., Detroit, Mich. Air-compresser pump. No. 1,346,699; July 13; v. 276; p. 333.
Burger, William J., East Cleveland, and M. E. Lauge, assignors to The Warner & Swasey Company, Cleveland, Ohio. Tool or work holding device. No. 1,346,295; July 13; v. 276; p. 253.
Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)
Burgi, Herman, assignor of one-half to C. H. Tenney, Springfield, Mass. Automatic gas-pressure regulator. No. 1,346,529; July 13; v. 276; p. 299.
Butcher, William L., Flora, Ind. Fence-gate. No. 1,346,395; July 13; v. 276; p. 272.
Butler, Leonard F. G. (See Fedden, A. H. R., and Butler.)
Butters-Camp Mfg. Co., The. (See Butters, Robert H., assignor.)
Butters, Robert H., Atlanta, Ga., assignor to The Butters-Camp Mfg. Co. Gin or linter saw. No. 1,346,396; July 13; v. 276; p. 272.
Cameron, William, assignor to Torris Weld & Company, Chicago, Ill. Blank-positioning mechanism. No. 1,346,589; July 13; v. 276; p. 310.
Campbell, Charles G. (See Dawson, James, assignor.)
Cannles, John L. (See Mediaville, L., Cannles.)
Cannell, William, Springfield, Mass., assignor to Bausch Machine Tool Company. Machine for grinding worms and the like. No. 1,346,173; July 13; v. 276; p. 228.
Canner, Max O., assignor of one-half to A. Duff and S. Duff, New York, N. Y. Safety-receptacle. No. 1,346,174; July 13; v. 276; p. 229.
Cannon, Andrew H. (See Smith, Leonard A., assignor.)
Cannon, Mervin B., Cincinnati, Ohio. Toilet-package. No. 1,346,441; July 13; v. 276; p. 282.
Carbart, Linden P., Brooklyn, N. Y., and S. Shaughnessy, Jersey City, N. J. Line-indicating device for typewriters. No. 1,346,115; July 13; v. 276; p. 217.
Carlsen, Axel, Lyngby, near Copenhagen, Denmark. Apparatus for producing driving-belts. No. 1,346,700; July 13; v. 276; p. 333.
Caron, Martinus H., Weltevreden, Java, Dutch East Indies, assignor to Clevenger & Caron, Washington, D. C. Treating nickel ores. No. 1,346,175; July 13; v. 276; p. 229.
Castor, Harry B. (See Hinshaw, C. J., and Castor.)
Cathcart, Royal W., Toledo, Ohio. Music-rack. No. 1,346,740; July 13; v. 276; p. 340.
Cavanagh, John F., assignor to Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Composition and manufacture. No. 1,346,397; July 13; v. 276; p. 272.
Chambers, Alden R., Winthrop, Mass. Hot-water bottle. No. 1,346,176; July 13; v. 276; p. 229.
Chanard, Auguste, Ruell, France. Fuse for projectiles. No. 1,346,177; July 13; v. 276; p. 229.
Chapman, Richard D. (See Crook, A., and Chapman.)
Chavannes, Adrian J., Des Moines, Iowa. Printer's drying-cabinet. No. 1,346,781; July 13; v. 276; p. 349.
Chicker, Stanley L. (See Ritchie, Samuel, assignor.)
Chiodo, Joseph. (See Tweeddale, Daniel E., assignor.)
Christopher, Calvin F., Asheville, N. C. Wheel-rim. No. 1,346,178; July 13; v. 276; p. 229.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,346,530; July 13; v. 276; p. 299.
Church, Shelby L., Houston, Tex. Pneumatic tire. No. 1,346,113; July 13; v. 276; p. 217.
Claesson, Helge L., Gottenborg, Sweden. Automatic door-closer. No. 1,346,366; July 13; v. 276; p. 266.
Clausing, Louis F., Los Angeles, Calif. Radiator. No. 1,346,442; July 13; v. 276; p. 282.
Claxo Company, The. (See Slater, Vern, assignor.)
Cleveland, William H., Wellington, Kans. Rail-anti-creeper tie-plate. No. 1,346,398; July 13; v. 276; p. 272.
Clevenger & Caron. (See Caron, Martinus H., assignor.)
Cloud, Oscar E., Wichita, Kans. Ventilator. No. 1,346,633; July 13; v. 276; p. 319.
Coburn, Pressly J., Wellsville, Ohio. Amusement device. No. 1,346,634; July 13; v. 276; p. 320.

Cochran, Willard F., Blue Ridge, Ga. Plow. No. 1,346,701; July 13; v. 276; p. 333.
Cockburn, David, and D. MacNicoll, Cardonald, near Glasgow, Scotland. Engine stop-gear. No. 1,346,590; July 13; v. 276; p. 311.
Collins, Jeremiah F., and L. B. Weston, Brockton, Mass. Shoe-form. No. 1,346,296; July 13; v. 276; p. 253.
Collins, Jeremiah F., and L. B. Weston, Brockton, Mass. Last. No. 1,346,297; July 13; v. 276; p. 253.
Colter, George T., New York, N. Y. Brassière-hook. No. 1,346,702; July 13; v. 276; p. 333.
Colvin, Shady D., assignor of one-half to W. H. Welch, Myrtis, La. Electrical superheater. No. 1,346,741; July 13; v. 276; p. 341.
Comstock, Jesse F., Wilkes-Barre, Pa. Winding-machine. No. 1,346,635; July 13; v. 276; p. 320.
Comp., Phoebus E. G. (See Boltshauser, Conrad, assignor.)
Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt. (See Rimailho, Emile, assignor.)
Congdon, Charles H., East Stroudsburg, Pa. Container. No. 1,346,298; July 13; v. 276; p. 254.
Connecticut Telephone & Electric Company. (See Cavanagh, John F., assignor.)
Continental Can Company. (See Taliaferro, J. C., and Warme, assignors.)
Cook, Wilbur C., Waltham, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Display-box for watches. No. 1,346,591; July 13; v. 276; p. 311.
Cooper, George B., Cleveland, Ohio. Tire-vulcanizer. No. 1,346,483; July 13; v. 276; p. 290.
Cooper, Hamilton A., assignor of one-half to C. A. Briggs, Toledo, Ohio. Ladder. No. 1,346,299; July 13; v. 276; p. 254.
Cope, Frank T. (See Baily, T. F., and Cope.)
Corell, Clifton B., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,346,367; July 13; v. 276; p. 267.
Cosmos Engineering Company, The. (See Fedden, A. H. R., and Butler, assignors.)
Cottle, Charles A., Edwardsville, Pa. Carrier for explosives. No. 1,346,636; July 13; v. 276; p. 320.
Coulston, Herbert V., assignor to Smith and Furbush Machine Company, Philadelphia, Pa. Garnet-cylinder. No. 1,346,637; July 13; v. 276; p. 320.
Cowan, Albert W. (See Shiett, H. C., and Cowan.)
Crawford-Frost, William A., Baltimore, Md. Wave-energy motor. No. 1,346,300; July 13; v. 276; p. 272.
Crippen, Henry M., Athens, Ohio, assignor to The Athens Bindery Company. Loose-leaf-binding machine. No. 1,346,179; July 13; v. 276; p. 229.
Crook, Alfred, and R. D. Chapman, Philadelphia, Pa., assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Method and means for making artificial-stone products. No. 1,346,638; July 13; v. 276; p. 320.
Cru Patents Corporation. (See Wenderhold, William, assignor.)
Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Field-coil-testing device. No. 1,346,592; July 13; v. 276; p. 311.
Cuno, Charles F., Meriden, Conn. Electric cigar-lighter. No. 1,346,368; July 13; v. 276; p. 267.
Curtis, Jesse T., assignor of one-third to F. L. McClure and one-third to F. F. Le Fevre, Sebring, Ohio. Signal-operating means. No. 1,346,703; July 13; v. 276; p. 333.
Cutler, Cecil, and D. F. Morand; said Cutler assignor to E. Verey, Sydney, New South Wales, Australia. Loose-leaf binder. No. 1,346,180; July 13; v. 276; p. 230.
Dabbs, Albert E., Manchester, S. W. Savage, Chorlton-cum-Hardy, and A. H. Hindle, Birmingham, assignors of one-eighth to A. Liddle, Manchester, and one-half to J. G. W. Gruban, Kingsway, London, England. Roller or ball bearing. No. 1,346,443; July 13; v. 276; p. 282.
Daniels, Harry H. Winthrop, assignor to The Service Machines Company, Boston, Mass. Stamp-affixing machine. No. 1,346,484; July 13; v. 276; p. 290.
Dargin, Ernest P., Denver, Colo. Spring mechanism for automobiles and other vehicles. No. 1,346,300; July 13; v. 276; p. 254.
Darling, Samuel, Waupun, Wis. Arch-support. No. 1,346,444; July 13; v. 276; p. 282.
Darrin, David H., Maywood, N. J. Time-switch. No. 1,346,114; July 13; v. 276; p. 217.
Daugherty, John Q., assignor of one-fourth to K. M. Rowe, Broken Arrow, Okla. Nut-lock. No. 1,346,301; July 13; v. 276; p. 254.
Davies, Henry R., assignor to Industrial Research Corporation, Toledo, Ohio. Automatic regulator. No. 1,346,181; July 13; v. 276; p. 230.
Davis, Benjamin W., Chicago, Ill. Portable signal system. No. 1,346,531; July 13; v. 276; p. 299.
Davis, Irving L., Dayton, Ohio. Arrow. No. 1,346,639; July 13; v. 276; p. 321.
Davy Brothers Limited. (See Hand, Thomas W., assignor.)
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Ammunition-hoisting apparatus. No. 1,346,302; July 13; v. 276; p. 254.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Sighting device for guns. No. 1,346,303; July 13; v. 276; p. 255.
Dawson, James, Oakland, assignor to C. G. Campbell, Alameda county, Calif. Fuel-economizer for cooking-stoves. No. 1,346,445; July 13; v. 276; p. 282.
De Arrigunaga, Manuel, New York, N. Y. Device for the preparation of coffee or like beverages. No. 1,346,485; July 13; v. 276; p. 290.
De Brandt, William F., Melbourne, Victoria, assignor to The Fogarty Patent Interchangeable Harvester Corporation Limited, Perth, Western Australia, Australia. Harvesting-machine. No. 1,346,182; July 13; v. 276; p. 230.
De Clercq, Hendrik, Amsterdam, Netherlands. Drawing-board. No. 1,346,593; July 13; v. 276; p. 311.
Deere and Company. (See Holstein, John V., assignor.)
Deere & Company. (See Howard, Otis W., assignor.)
Deerr, Noël, Brooklyn, N. Y. Apparatus for macerating bagasse. No. 1,346,594; July 13; v. 276; p. 311.
De Fram, Joseph. (See Stipes, R. B., and De Fram.)
Del Solar, Aristides, assignor to A. B. Shrigley, trustee, Boston, Mass. Torpedo-director. No. 1,346,273; July 13; v. 276; p. 249.
Denis, Louis, Liege, Belgium. Sawing-machine. No. 1,346,446; July 13; v. 276; p. 283.
Denne, Mark T., Rushden, England. Stitch-forming mechanism for sewing-machines. No. 1,346,183; July 13; v. 276; p. 230.
Derungs, Ernest A., assignor to Societe Anonyme Ateliers Otis Pifre, Paris, France. System of haulage. No. 1,346,447; July 13; v. 276; p. 283.
De Waters, Enos A., Flint, assignor to General Motors Corporation, Detroit, Mich. Lubricating means for valve-operating devices. No. 1,346,116; July 13; v. 276; p. 218.
Dewey, Ellsworth A., Tampa, Fla. Block-making machine. No. 1,346,640; July 13; v. 276; p. 321.
Dickinson, Thomas A., Youngstown, Ohio. Self-filling fountain-pen. No. 1,346,184; July 13; v. 276; p. 231.
Dilg, Charles H. J., New York, N. Y. Washing-machine. No. 1,346,595; July 13; v. 276; p. 312.
Dilg, Charles H. J., New York, N. Y. Knife-controlling mechanism for cutlery-renovating machines. No. 1,346,804; July 13; v. 276; p. 354.
Dodds, Ethan I. (See Flannery, J. R., and Dodds.)
Donaldson, Augustus F., assignor to The Bunting & Bronze Company, Toledo, Ohio. Micrometer. No. 1,346,304; July 13; v. 276; p. 255.
Donner, Stephen. (See Nordenberg, S., and Donner.)
Doujak, Maria, New York, N. Y. Life-saver automobile attachment. No. 1,346,486; July 13; v. 276; p. 290.
Dover, George W., Cranston, R. I. Semispherical ball-bearing structure. No. 1,346,400; July 13; v. 276; p. 273.
Doyle, Elmer J., Detroit, Mich. Combined velocipede and wagon. No. 1,346,596; July 13; v. 276; p. 312.
Doyle, Helen F., Waterbury, Conn. Clothesline-coupling. No. 1,346,487; July 13; v. 276; p. 290.
Doyle, William J., and J. J. Wollenhaupt, assignors to The Monitor Stove & Range Company, Cincinnati, Ohio. Furnace. No. 1,346,801; July 13; v. 276; p. 354.
Drain, John A., Philadelphia, Pa. Ingot-mold. No. 1,346,369; July 13; v. 276; p. 267.
Drummond, Edward W., Wollaston, Mass. Railway-tie and fastener. No. 1,346,305; July 13; v. 276; p. 255.
Drummond, William G., Los Angeles, Calif. Gear-shift. No. 1,346,532; July 13; v. 276; p. 299.
Duff, Alexander, *et al.* (See Canner, Max O., assignor.)
Duff, Sarah, *et al.* (See Canner, Max O., assignor.)
Duket, Henry T., Toledo, Ohio. Pliers. No. 1,346,306; July 13; v. 276; p. 255.
Dula, Caleb C., assignor to Liggett & Myers Tobacco Company, New York, N. Y. Method of and means for preserving tobacco. No. 1,346,533; July 13; v. 276; p. 300.
Dunn, Louis, St. Paul, Minn. Safety device for point-switches. No. 1,346,597; July 13; v. 276; p. 312.
Eaton, Albert N., Omaha, Nebr. Stock-watering tank. No. 1,346,307; July 13; v. 276; p. 255.
Edmonds, George F., Leavenworth, Kans. Moisture-collector. No. 1,346,742; July 13; v. 276; p. 341.
Endstrom, Karl A., Denver, Colo., assignor of one-half to The Weiss Instrument Company. Binocular telescope. No. 1,346,308; July 13; v. 276; p. 256.
Edwards, Richard E. (See Schroeder, Frank H., assignor.)
Edwards, Riley. (See Raab, J. W., and Edwards.)
Eggers, William A., Milwaukee, Wis. Gage for sheet-metal machines. No. 1,346,185; July 13; v. 276; p. 231.
Ehnborn, Clemens E., Chicago, Ill. Spool. No. 1,346,117; July 13; v. 276; p. 218.
Ella, Giovanni E., Rome, Italy, assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,346,309; July 13; v. 276; p. 256.
Elias, Abraham J. (See Stupar, Max, assignor.)
Ellis, Warren E., assignor of one-half to W. M. Traylor, Lebo, Kans. Valve-actuating mechanism. No. 1,346,401; July 13; v. 276; p. 273.
Ellsworth, Ross J., Philadelphia, Pa. Caster-connecting device. No. 1,346,641; July 13; v. 276; p. 321.
Elmore, Frank E., Boxmoor, England. Extraction of lead and zinc from their ores. No. 1,346,642; July 13; v. 276; p. 321.

Emerson, Victor L., Philadelphia, Pa. Apparatus for the conversion of hydrocarbon-oils. No. 1,346,797; July 13; v. 276; p. 353.

Emerson, Victor L., Philadelphia, Pa. Conversion of hydrocarbon-oils. No. 1,346,798; July 13; v. 276; p. 353.

Enström, Edvard, Lidköping, and E. H. W. Weibull, Gottenborg, Sweden. Back-pedaling brake and coaster. No. 1,346,118; July 13; v. 276; p. 218.

Epps, Henry G., Waco, Tex. Coal-oil generator. No. 1,346,370; July 13; v. 276; p. 267.

Erik, Emil, Ossining, assignor of twenty per cent. to E. I. Quick, Westchester county, and thirty per cent. to A. W. Harvey, New York, N. Y. Tractor-shoe-dirt eliminator. No. 1,346,186; July 13; v. 276; p. 231.

Espeland, Franklin A., Oakes, N. D. Scrubbing-machine. No. 1,346,643; July 13; v. 276; p. 321.

Essentials Mfg. Company. (See Gibson, Adelbert R., assignor.)

Ewing, Henry W., Columbus, Ohio. Wearing-apparel. No. 1,346,448; July 13; v. 276; p. 283.

Fahrenwald, Frank A., Cleveland Heights, Ohio. Producing chromium containing alloys. No. 1,346,187; July 13; v. 276; p. 231.

Fahrenwald, Frank A., Cleveland, Ohio. Firearm and alloy for making same. No. 1,346,188; July 13; v. 276; p. 231.

Fahrenwald, Frank A., Cleveland Heights, Ohio. Firearm and alloy for making same. No. 1,346,189; July 13; v. 276; p. 231.

Fahrenwald, Frank A., Cleveland Heights, Ohio. Firearm and alloy for making same. No. 1,346,190; July 13; v. 276; p. 231.

Fahrenwald, Frank A., Cleveland Heights, Ohio. Firearm and alloy for making same. No. 1,346,191; July 13; v. 276; p. 231.

Fairbanks, E. and T., and Company. (See Bousfield, John H. A., assignor.)

Fairbanks Morse & Company. (See Mahana, C. G., Glidden, and Laurent, assignors.)

Faultless Caster Company. (See Noelting, William H., assignor.)

Fedden, Alfred H. R., Bristol, England. Internal-combustion engine. No. 1,346,534; July 13; v. 276; p. 300.

Fedden, Alfred H. R., and L. F. G. Butler, assignors of one-third to The Cosmos Engineering Company, Limited, Bristol, England. Cylinder for internal-combustion engines. No. 1,346,535; July 13; v. 276; p. 300.

Fehrle, Thomas F., Philadelphia, Pa. Hopper. No. 1,346,310; July 13; v. 276; p. 256.

Fickersen, Henry, Brooklyn, N. Y. Heater. No. 1,346,704; July 13; v. 276; p. 334.

Field, Crosby, Washington, D. C. Unsheathing and pulverizing machine. No. 1,346,119; July 13; v. 276; p. 218.

Fink, Louis, Philadelphia, Pa. Submersible destroying or salvaging vessel. No. 1,346,743; July 13; v. 276; p. 341.

Firestone Tire and Rubber Company, The. (See Williams, William E., assignor.)

Fischer, Theodore C., Philadelphia, Pa. Automobile-lock. No. 1,346,371; July 13; v. 276; p. 267.

Fisher, Frank E., Detroit, Mich. Starter for internal-combustion engines. No. 1,346,598; July 13; v. 276; p. 312.

Fisher, Robert E., and W. M. York, Long Beach, Calif.; said Fisher assignor to said York. Pay-envelop. No. 1,346,372; July 13; v. 276; p. 268.

Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)

Fisk Rubber Company, The. (See Midgley, Thomas, Sr., and T., Jr., assignors.)

Fitz-Gibbon, John J., Holyoke, Mass. Toothbrush. No. 1,346,536; July 13; v. 276; p. 300.

Flaiz, Ed, Olathe, Colo. Tractor. No. 1,346,644; July 13; v. 276; p. 322.

Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)

Flannery, John R., and E. I. Dobbs, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,346,645; July 13; v. 276; p. 322.

Flinchbaugh, Clarence E., Lima, Ohio. Motor-truck frame. No. 1,346,744; July 13; v. 276; p. 341.

Florandin, C. H. (See Bennett, Alan M., assignor.)

Flowers, Alan E., Columbus, Ohio. System of water distillation. No. 1,346,537; July 13; v. 276; p. 301.

Focarty Patent Interchangeable Harvester Corporation, The. (See de Brandt, William F., assignor.)

Fox, P. A., *et al.* (See Atteberry, William A., assignor.)

Francis, Charles E., assignor to Vickers Limited, Westminster, London, England. Sewing-machine. No. 1,346,120; July 13; v. 276; p. 218.

Freidrich, Ernest G., Indianapolis, Ind. Sanitary toilet. No. 1,346,311; July 13; v. 276; p. 256.

Frizzell, Ralph E. (See Hendrickson, J. H., and Frizzell.)

Frost, Mollie C. (See Benedict, E. J., and Frost.)

Funk, Arthur N., Fort Worth, Tex. Advertising attachment for scales. No. 1,346,488; July 13; v. 276; p. 291.

Furrow, Edward, Springfield, Ill. Railway structure. No. 1,346,312; July 13; v. 276; p. 257.

Gallagher, Hugh F., Portland, Me. Measuring instrument. No. 1,346,646; July 13; v. 276; p. 322.

Gates, Quincy A. (See Bunnell, W. O., and Gates.)

Gebauer, Charles L., Cleveland, Ohio. Composition of matter. No. 1,346,192; July 13; v. 276; p. 232.

Gehring, William G., Woodhaven, N. Y. Baseball game. No. 1,346,782; July 13; v. 276; p. 350.

General Motors Corporation. (See De Waters, Enos A., assignor.)

General Motors Corporation. (See Whitten, Frank A., assignor.)

General Phonograph Manufacturing Company, The. (See Manson, Ray H., assignor.)

Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vehicle-searchlight. No. 1,346,489; July 13; v. 276; p. 291.

George, Alexander W., assignor of one-half to S. H. Baer, Brooklyn, N. Y. Machine and method for shaping and assembling blanks. No. 1,346,490; July 13; v. 276; p. 291.

George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. No. 1,346,538; July 13; v. 276; p. 301.

Germaszewski, Pioter, South East Cleveland, Ohio. Wall-paper-hanging implement. No. 1,346,647; July 13; v. 276; p. 322.

Getman, David D., Minneapolis, Minn., and J. P. Sternhagen, Glasgow, Mont.; said Getman assignor to said Sternhagen. Flat-tire signal. No. 1,346,599; July 13; v. 276; p. 313.

Gibbs, Frederick H., Brooklyn, assignor to W. H. Woodin, New York, N. Y. Wheel-attaching device for mine-cars and other purposes. No. 1,346,193; July 13; v. 276; p. 232.

Gibralter Tire & Rubber Company. (See Strang, Fred W., assignor.)

Gibson, Adelbert R., Chicago, Ill., assignor, by mesne assignments, to Essentials Mfg. Company. Headlight-lens. No. 1,346,705; July 13; v. 276; p. 334.

Gibson, John H., Bruin, Pa. Window-sash holder. No. 1,346,449; July 13; v. 276; p. 283.

Gieser, Carl, and G. Shaffer, Des Moines, Iowa; said Shaffer assignor to said Gieser. Valve-grinding tool. No. 1,346,783; July 13; v. 276; p. 350.

Gill, Harry R., Ashland, Ohio. Machine for forming rolls on toy balloons. No. 1,346,706; July 13; v. 276; p 334.

Gilles, Albert L. (See Prince, J. A., and Gilles.)

Gilles Fuel Feeding Company. (See Gilles, Pierre P., assignor.) (Reissue.)

Gilles, Pierre P., Chicago, Ill., assignor, by mesne assignments, to Gilles Fuel Feeding Company, Holyoke, Mass. Vacuum-feed carbureter. (Reissue.) No. 14,912; July 13; v. 276; p. 354.

Glass, P. R., Company. (See Glass, Perley R., assignor.)

Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Seam-rubbing machine. No. 1,346,194; July 13; v. 276; p. 232.

Glass, Perley R., Brookline, assignor to P. R. Glass Company, Boston, Mass. Folding-machine. No. 1,346,195; July 13; v. 276; p. 232.

Glaudel, George, Los Angeles, Calif. Windshield attachment. No. 1,346,402; July 13; v. 276; p. 273.

Glaze, Herbert L. (See Routt, O. L., G. C. McConnell, and Glaze.)

Gleiche, Carl, assignor to Stock Motorpflug Gesellschaft mit Beschrankter Haftung, Berlin, Germany. Moldboard for plows. No. 1,346,600; July 13; v. 276; p. 313.

Glidden, Earl D. (See Mahana, C. G., Glidden, and Laurent.)

Golden Glow Sign Corporation. (See Limpert, Alexander S., assignor.)

Golly, Louis, Brooklyn, assignor of fifty-one per cent. to A Albright, Jr., New York, N. Y. Bearing. No. 1,346,121; July 13; v. 276; p. 218.

Goodlake, Frederick D., Memphis, Tenn. Manifold-heater. No. 1,346,745; July 13; v. 276; p. 342.

Goodyear Tire & Rubber Company, The. (See Roth, Charles H., assignor.)

Gossage, Charles C., Birmingham, England. Bolt-fastening for the lids of boxes, cases, and other receptacles having lids. No. 1,346,450; July 13; v. 276; p. 283.

Gray, George F., Pittsburgh, Pa. Fair-lead. No. 1,346,539; July 13; v. 276; p. 301.

Gray, George F., Pittsburgh, Pa. Signaling apparatus. No. 1,346,540; July 13; v. 276; p. 301.

Green, Charles F., Defiance, Ohio. Fuel-feed system. No. 1,346,196; July 13; v. 276; p. 232.

Green, Nathan F., East Haven, and J. Peterka, Shelton, Conn. Drinking-fountain. No. 1,346,122; July 13; v. 276; p. 219.

Green, Richard D., Seattle, Wash. Milk-can holder and protector. No. 1,346,451; July 13; v. 276; p. 283.

Grierson, John G., Richmond, Calif. Eccentric bushing for steam-radiators. No. 1,346,403; July 13; v. 276; p. 273.

Grigg, Thomas H., Philadelphia, Pa. Sound-amplifying device. No. 1,346,491; July 13; v. 276; p. 291.

Gross, Elmer J. (See Arnold, G. A., and Gross.)

Gross, Frank, Louisville, Colo. Brush-cutter. No. 1,346,197; July 13; v. 276; p. 232.

Gruban, John G. W., *et al.* (See Dabbs, A. E., Savage, and Hindle, assignors.)

Grupé, Roy M., assignor of one-half to L. A. Henter, Broadview, Mont. Electrically-controlled lever-lock. No. 1,346,746; July 13; v. 276; p. 342.

Guerrilch, Frederick C., Stamford, Conn. Internal-combustion engine. No. 1,346,123; July 13; v. 276; p. 219.

Guerrilch, Frederick C., Stamford, Conn. Internal-combustion engine. No. 1,346,124; July 13; v. 276; p. 219.

H. & H. Patent Developing Company. (See Hebern, Edward H., assignor.)

Haberman, Charles, North Bergen, assignor to Oscar Schmidt, Inc., Jersey City, N. J. Playing device for stringed musical instruments. No. 1,346,707; July 13; v. 276; p. 334.

Hamilton, Clayton R., Panora, Iowa. Self-feeder for swine. No. 1,346,784; July 13; v. 276; p. 350.

Hamilton, Eddie H., Washington, D. C. Pulley-plate. No. 1,346,747; July 13; v. 276; p. 342.

Hammond, William P., Passaic, N. J., and E. Q. Moses, New York, N. Y. Illuminated sign. No. 1,346,493; July 13; v. 276; p. 292.

Hancock, Thomas F., assignor to The Seymour Metal Goods Company, Seymour, Conn. Hose-supporter. No. 1,346,648; July 13; v. 276; p. 323.

Hand, Erle H., Baltimore, Md. Sound-conduit. No. 1,346,649; July 13; v. 276; p. 323.

Hand, Thomas W., assignor to Davy Brothers Limited, Sheffield, England. Steam hydraulic intensifier. No. 1,346,198; July 13; v. 276; p. 233.

Hanmer, Laurence G., Brooklyn, assignor to The A–Z Company, New York, N. Y. Automobile-radiator and making same. No. 1,346,492; July 13; v. 276; p. 292.

Hänni, Ernst, Arbon, and H. Stamm, St. Gallen, assignors to Firme Adolphe Saurer, Arbon, Switzerland. Automatic rifle. No. 1,346,494; July 13; v. 276; p. 292.

Hanson, Walter M., Kenosha, Wis. Method and apparatus for inserting eye-bushings. No. 1,346,199; July 13; v. 276; p. 233.

Harding, Marcelle J., New York, N. Y. Toilet-accessory container. No. 1,346,541; July 13; v. 276; p. 301.

Harlow, Fred, *et al.* (See Pickup, George E., assignor.)

Harriman, Seelye P. (See Russell, E. A., and Harriman.)

Harris, Albert S., New York, N. Y. Diagnostic instrument. No. 1,346,200; July 13; v. 276; p. 233.

Harrison, Arthur C., Alsager, England. Sifter for treating potters' slip, powdered substances, and the like. No. 1,346,452; July 13; v. 276; p. 284.

Hart, Charles A., Seattle, Wash. Oil-burner. No. 1,346,373; July 13; v. 276; p. 268.

Hartwig, William J. (See Cullin, Jasper F., assignor.)

Harvey, Alden W., *et al.* (See Erik, Emil, assignor.)

Hasbrook, Roy, New York, N. Y. Sanitary teeth-cleaner. No. 1,346,125; July 13; v. 276; p. 219.

Haskelite Manufacturing Corporation. (See Basquin, Olin H., assignor.)

Hassler, Paul M., assignor to The Louden Machinery Company, Fairfield, Iowa. Track for overhead carriers. No. 1,346,313; July 13; v. 276; p. 257.

Havenstrite, Charles D., Chicago, Ill. Oscillating-type compressor. No. 1,346,404; July 13; v. 276; p. 273.

Hays, Franklin B., Indianapolis, Ind. Carbureter. No. 1,346,201; July 13; v. 276; p. 233.

Hazard, Allen B., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Conveying mechanism. No. 1,346,314; July 13; v. 276; p. 257.

Hebern, Edward H., assignor to H & H Patent Developing Company, Oakland, Calif. Direction-preindicator. No. 1,346,453; July 13; v. 276; p. 284.

Hedges, Anthony B., Brunswick, Md. Locomotive-tire limit-of-wear gages. No. 1,346,748; July 13; v. 276; p. 342.

Heintz, James C., and G. Ruf, Cleveland, Ohio; said Ruf assignor to said Heintz. Vulcanizer. (Reissue.) No. 14,913; July 13; v. 276; p. 355.

Hensal, Elmer A., Panora, Iowa. Non-skid device. No. 1,346,785; July 13; v. 276; p. 350.

Henson, John C., Zwolle, La. Shade-bracket. No. 1,346,749; July 13; v. 276; p. 342.

Henter, Leo A. (See Grupe, Roy M., assignor.)

Herman, William M., San Jose, Calif. Spray-nozzle. No. 1,346,750; July 13; v. 276; p. 343.

Herrin, E. F., *et al.* (See Porter, Frank S., assignor.)

Herring, Samuel R., Delhi, La. Plow. No. 1,346,751; July 13; v. 276; p. 343.

Higham, Harold. (See Bayles, E. A., and Higham.)

Hein, Paul P., New York, N. Y. Headlight-dimmer. No. 1,346,708; July 13; v. 276; p. 334.

Heinel, John, Rockford, Ill. Body structure for traveling bags, cases, and the like. No. 1,346,495; July 13; v. 276; p. 292.

Heiwitz, Ellis S., Brooklyn, N. Y. Shoe-heel. No. 1,346,709; July 13; v. 276; p. 334.

Hendershott, Chauncey M., Hornell, N. Y. Elevating-truck. No. 1,346,710; July 13; v. 276; p. 335.

Hendrickson, John H., and R. E. Frizzell, Cleveland, Ohio; said Frizzell assignor to said Hendrickson. Ice-cream-cutting machine. No. 1,346,405; July 13; v. 276; p. 274.

Hendrickson, William A., assignor to McWhorter Manufacturing Company, Riverton, N. J. Fertilizer-distributer. No. 1,346,650; July 13; v. 276; p. 323.

Herminghuysen, Christ, Van Wert, Ohio. Railway-tie. No. 1,346,651; July 13; v. 276; p. 323.

Herrmann, Arthur L., Detroit, Mich. Armband. No. 1,346,374; July 13; v. 276; p. 268.

Hiliker, August, Salem, Oreg. Prune-treating machine. No. 1,346,315; July 13; v. 276; p. 257.

Hill, Chester L., Lancaster, Pa. Bleaching asbestos. No. 1,346,316; July 13; v. 276; p. 257.

Hindle, Alfred H. (See Dabbs, A. E., Savage, and Hindle.)

Hinshaw, Claud J., and H. B. Castor, Lapel, Ind. Pump. No. 1,346,652; July 13; v. 276; p. 323.

Hodges, Edward, Eastleigh, near Southampton, England. Repair of the axles of motor-vehicles. No. 1,346,202; July 13; v. 276; p. 233.

Hollings, John C., Boston, Mass. Globe or shade holder for electric lamps. No. 1,346,375; July 13; v. 276; p. 268.

Holmes, Johannes A., Eureka, Calif. Window-shade roller. No. 1,346,406; July 13; v. 276; p. 274.

Holmes, William K., Brooklyn, N. Y. Pencil. No. 1,346,711; July 13; v. 276; p. 335.

Holstein, John V., assignor to Deere and Company, Moline, Ill. Two-row cultivator. No. 1,346,317; July 13; v. 276; p. 258.

Holt, Harold E. S., Farmborough, England. Parachute-flare. No. 1,346,454; July 13; v. 276; p. 284.

Hood, Benjamin M., Atlanta, Ga. Machine for forming clay tower-spirals. No. 1,346,786; July 13; v. 276; p. 351.

Hopkins, Charles E., New York, N. Y. Machine for finishing stereotype printing-plates. No. 1,346,601; July 13; v. 276; p. 313.

Horne, James. (See Dawson, A. T., and Horne.)

Housley, Robert B., Indianapolis, Ind. Washout-plug. No. 1,346,496; July 13; v. 276; p. 293.

Houston, Roger A. (See McMahon, F., and Houston.)

Howard, Otis W., assignor to Deere & Company, Moline, Ill. Cultivator-wheel adjustment. No. 1,346,318; July 13; v. 276; p. 258.

Howe, Paul J., Ridgewood, N. J. Apparatus for piercing timber. No. 1,346,126; July 13; v. 276; p. 220.

Howell, Samuel M., Zanesville, Ohio. Metallurgical furnace. (Reissue.) No. 14,914; July 13; v. 276; p. 355.

Hubbell, Harvey, Incorporated. (See Newton, William J., assignor.)

Hull, Matthew R., assignor to Rex Manufacturing Company, Connersville, Ind. Roof-deck for vehicles. No. 1,346,203; July 13; v. 276; p. 234.

Humphrey, Harry D., *et al.* (See Umphrey, Henry, assignor.)

Hurst, Charles, Limited. (See Patton, Alexander M., assignor.)

Hurst, George A., Louisville, Ky. Concrete roof construction. No. 1,346,752; July 13; v. 276; p. 343.

Hutchins Car Roofing Company. (See Thompson, William D., assignor.)

Hvid, R. M., Company. (See Hvid, Rasmus M., assignor.)

Hvid, R. M., Company. (See Slonek, Frank G., assignor.)

Hvid, Rasmus M., Chicago, Ill. Oil-burning engine. No. 1,346,205; July 13; v. 276; p. 234.

Hvid, Rasmus M., assignor to R. M. Hvid Company, Chicago, Ill. Valve for hydrocarbon-engines. No. 1,346,204; July 13; v. 276; p. 234.

Hydro-Dynamics Limited. (See Lamplough, Frederick, assignor.)

Import and By Products Company, The. (See Appelbaum, Alan I., assignor.)

Industrial Research Corporation. (See Davies, Henry R., assignor.)

Ingersoll-Rand Company. (See Bayles, L. C., and Slater, assignors.)

Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,346,653; July 13; v. 276; p. 323.

Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,346,654; July 13; v. 276; p. 324.

Ingram, Harry. (See Ingram, Alfred and H.)

Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)

Innes, George, and J. H. Prall, Philadelphia, Pa. Grain-shocker. No. 1,346,542; July 13; v. 276; p. 302.

Innes, George, and J. H. Prall, Philadelphia, Pa. Grain-shocker. No. 1,346,543; July 13; v. 276; p. 302.

International Harvester Company. (See Sharp, Charles S., assignor.)

Janes, Martin L., New York, N. Y. Combined blood-transfusion and aspirating apparatus. No. 1,346,127; July 13; v. 276; p. 220.

Jantsch, Ernst, Cincinnati, Ohio. Combined armchair and bed. No. 1,346,206; July 13; v. 276; p. 234.

Jaquemot, Eugène. (See Pattay, M., and Jaquemot.)

Jenkins, Alexander H., assignor to J. B. Brooks and Company Limited, Birmingham, England. Fastening or securing device. No. 1,346,655; July 13; v. 276; p. 324.

Jenkins, Parker, Philadelphia, Pa. Dimmer-shield for lamps. No. 1,346,497; July 13; v. 276; p. 293.

Jennings, Victor H., Worcester, Mass., assignor to Universal Patents Company, Woonsocket, R. I. Machine-gun belt and the like. No. 1,346,207; July 13; v. 276; p. 235.

Jennings, Victor H., Worcester, Mass., assignor to Universal Patents Company, Woonsocket, R. I. Machine-gun belt and the like. No. 1,346,208; July 13; v. 276; p. 235.

Jobke, August F., Pittsburgh, Pa. Magnetic ore-separator. No. 1,346,544; July 13; v. 276; p. 302.

Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift lever. No. 1,346,209; July 13; v. 276; p. 235.
Johnson, Fidelis, Delphos, Ohio. Combined furnace and flue-welder. No. 1,346,753; July 13; v. 276; p. 343.
Johnson, William H., Perry, Okla. Steering-balance. No. 1,346,211; July 13; v. 276; p. 235.
Johnson, Willie H., Chicago, Ill. Globe-valve. No. 1,346,210; July 13; v. 276; p. 235.
Johnston, Clarence L., assignor of one-half to H. P. Brown, Oakland, Calif. Interfolding-machine. No. 1,346,602; July 13; v. 276; p. 313.
Jones, Ralph L., Gordon, Tex. Sling-shot. No. 1,346,754; July 13; v. 276; p. 344.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,346,802; July 13; v. 276; p. 354.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,346,803; July 13; v. 276; p. 354.
Jones, Slone A., Springville, Ala. Rail-joint. No. 1,346,656; July 13; v. 276; p. 324.
Juelson, Edwin, Chicago, Ill. Razor-stropping device. No. 1,346,212; July 13; v. 276; p. 236.
Juengst, Charles A., assignor to himself and Juengst & Sons, Croton Falls, N. Y. Book or pamphlet covering machine. No. 1,346,799; July 13; v. 276; p. 353.
Juengst, George, & Sons. (See Juengst, Charles A., assignor.)
Kaufman, Roscoe W., *et al.* (See Seymour, John K., assignor.)
Keller, Pneumatic Tool Company. (See Schinkes, Albert, assignor.)
Kelley, John I., Philadelphia, Pa. Garter-fastening. No. 1,346,657; July 13; v. 276; p. 324.
Kellum, Orlando E., and S. A. Murdock, Los Angeles, Calif.; said Murdock assignor to said Kellum. Phonograph-driving mechanism. No. 1,346,376; July 13; v. 276; p. 268.
Kelso, Joseph. (See Kelso, William and J.)
Kelso, William and J., assignors to The McConway & Torley Company, Pittsburgh, Pa. Draft appliance for railway-vehicles. No. 1,346,545; July 13; v. 276; p. 302.
Kemmer, Nicholas P., London, England. Car-coupling. No. 1,346,603; July 13; v. 276; p. 313.
Kesselring, Fritz, Neuhausen, Switzerland. Continuous-current dynamo. No. 1,346,213; July 13; v. 276; p. 236.
Keystone Watch Case Company, The. (See Cook, Wilbur C., assignor.)
Kimmerle, Daniel S. (See Kimmerle, Larned T. and D. S.)
Kimmerl, Larned T. and D. S., San Francisco, Calif. Towing-dolly for vehicles. No. 1,346,712; July 13; v. 276; p. 335.
Kinney, Norton W., Haverhill, Mass. Self-oiling metal bearing. No. 1,346,377; July 13; v. 276; p. 268.
Kloneck, August J., New York, N. Y. Shock-absorber and dynamometer for power transmissions. No. 1,346,546; July 13; v. 276; p. 302.
Knetting, August, Brooklyn, N. Y. Safety-guard for punch-presses. No. 1,346,713; July 13; v. 276; p. 335.
Kolin, Charles, Rochelle, Ill. Advertising specialty. No. 1,246,658; July 13; v. 276; p. 324.
Konlecnay, Anton, Vienna, Austria. Photographic projection apparatus. No. 1,346,319; July 13; v. 276; p. 258.
Kossmann, Max, Brooklyn, N. Y. Adjustable lamp-support. No. 1,346,659; July 13; v. 276; p. 325.
Kovacs, Louis, Throop, Pa. Aeroplane safety device. No. 1,346,214; July 13; v. 276; p. 236.
Kraber, George L., Portland, Oreg., assignor, by mesne assignments, to The Turbine Air Tool Company, Cleveland, Ohio. Knife-securing means for cutter-heads. No. 1,346,215; July 13; v. 276; p. 236.
Krebs, Frederick H., Frederiksberg, near Copenhagen, Denmark. Device for attachment of electric conductors to insulators. No. 1,346,128; July 13; v. 276; p. 220.
Krell, George K. (See Brandt, F. H. G., and Krell.)
Kryl, Joseph M., Chicago, Ill. Fire-escape. No. 1,346,787; July 13; v. 276; p. 351.
Kuhlmann, Wesley W., Woodcliff-on-Hudson, N. J. Automobilist's caution-signal. No. 1,346,714; July 13; v. 276; p. 335.
Labitoulère, Edouard, Besons, France. Machine for applying driving-bands on high-explosive shells. No. 1,346,455; July 13; v. 276; p. 284.
Lackland, James R., Creston, Iowa. Automatic angle-indicator. No. 1,346,547; July 13; v. 276; p. 303.
Lakey, Edgar C., assignor to B. A. Ballou & Co., Inc., Providence, R. I. Button. No. 1,346,660; July 13; v. 276; p. 325.
La Master, Vernon E., Beardstown, assignor of one-half to T. J. Smedley, Frederick, Ill. Automobile-radiator. No. 1,346,216; July 13; v. 276; p. 236.
Lamplough, Frederick, Feltham, assignor to Hydro-Dynamics Limited, London, England. Hydraulic pump. No. 1,346,548; July 13; v. 276; p. 303.
Lanchester, Frederick W., London, England. Eliminating torsional vibrations in high-speed engines, &c. No. 1,346,755; July 13; v. 276; p. 344.
Lange, Max E. (See Burger, W. J., and Lange.)
Larsen, Julius, Copenhagen, Denmark. Pegging-machine. No. 1,346,715; July 13; v. 276; p. 336.
Larson, Walter J., Wrangell, Alaska. Piston-cooling device for internal-combustion engines. No. 1,346,407; July 13; v. 276; p. 274.
Laserson, Frederick M., New York, N. Y. Perforating-machine. No. 1,346,217; July 13; v. 276; p. 236.
Laurenson, John M. (See Walker, S. L., and Laurenson.)
Laurent, Milton P. (See Mahana, C. G., Glidden, and Laurent.)
Law, E. McIvor, Arcadia, Fla. Convertible protective covering. No. 1,346,320; July 13; v. 276; p. 258.
Lea, Charles, assignor to American Warp Drawing Machine Company, Boston, Mass. Spacing-clamps for warp-threads and other purposes. No. 1,346,498; July 13; v. 276; p. 293.
Lee, Albert B., Minneapolis, Minn. Gage for paring-knives. No. 1,346,821; July 13; v. 276; p. 258.
Lee, Elmer T., Waterbury, Conn. Roller-skate. No. 1,346,218; July 13; v. 276; p. 237.
Lee, Nixon, assignor, by mesne assignments, to National Seal Company, Inc., Brooklyn, N. Y. Latch. No. 1,346,129; July 13; v. 276; p. 220.
Lee, Ralph, Medicine Bow, Wyo. Wrench. No. 1,346,716; July 13; v. 276; p. 336.
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Leggett, Clinton H., New York, N. Y. Advertising or amusement device. No. 1,346,219; July 13; v. 276; p. 237.
Leistmann, Alfred, Brooklyn, N. Y. Gas-heater. No. 1,346,456; July 13; v. 276; p. 284.
Leja, Josef, Fallentimber, Pa. Coin-assorting apparatus. No. 1,346,457; July 13; v. 276; p. 285.
Lemon, Robert L., assignor to The Van Camp Packing Co., Indianapolis, Ind. Packing-box. No. 1,346,661; July 13; v. 276; p. 325.
Lepley, Daniel F., Connellsville, Pa. Stop mechanism. No. 1,346,378; July 13; v. 276; p. 269.
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Lewis, Edward H., Scranton, Pa. Wheel. No. 1,346,756; July 13; v. 276; p. 344.
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Lewis, John L., Seattle, Wash. Musical stringed instrument. No. 1,346,458; July 13; v. 276; p. 285.
Lewis, Stephen M., Sweet Home, Ark. Incubator. No. 1,346,717; July 13; v. 276; p. 336.
Lewis, Willard I., Walpole, Mass. Device for opening and guiding webs of cloth, &c. No. 1,346,549; July 13; v. 276; p. 303.
Lewis, William K., and D. T. Blevins, Denver, Colo., assignors to The National Beet Harvester Company. Beet-harvester. No. 1,346,322; July 13; v. 276; p. 259.
Liddle, Absalom, *et al.* (See Dabbs, A. E., Savage, and Hindle, assignors.)
Lidseen, Gustave, Chicago, Ill. Oil-can lever mechanism. No. 1,346,130; July 13; v. 276; p. 220.
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Limbert, Alexander S., Pittsburgh, Pa., assignor to Golden Glow Sign Corporation, New York, N. Y. Illuminated sign. No. 1,346,499; July 13; v. 276; p. 293.
Lindeman, Joseph, New York, N. Y. Plastic pile. No. 1,346,222; July 13; v. 276; p. 238.
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Link-Belt Company. (See Spaulding, Fenton J., assignor.)
Lomax, Alfa, Atlanta, Ga. Photograph-cleaning device. No. 1,346,662; July 13; v. 276; p. 325.
Lombardi, Lamberto, Rome, Italy. Electric-arc furnace. No. 1,346,223; July 13; v. 276; p. 238.
Long, William H., New York, N. Y. Grainer for planographic plates. No. 1,346,501; July 13; v. 276; p. 293.
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Lucas, August L., New Haven, Conn. Combination-tool. No. 1,346,409; July 13; v. 276; p. 275.
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McConway & Torley Company, The. (See George, Enoch, Jr., assignor.)
McConway & Torley Company, The. (See Kelso, William and J., assignors.)

McConway & Torley Company, The. (See Regan, William J., assignor.)
McCormick, Andrew, Herculaneum, Mo. Wheel-defect and coupling-limit gage. No. 1,346,224; July 13; v. 276; p. 238.
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McGuire, Phillip, Staples, Minn. Tie-spacer. No. 1,346,225; July 13; v. 276; p. 238.
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McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Hood-hinge support. No. 1,346,325; July 13; v. 276; p. 259.
McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Motor-vehicle construction. No. 1,346,326; July 13; v. 276; p. 259.
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McNutt, Hiram F., Richmond, Ind. Aeroplane-drive. No. 1,346,327; July 13; v. 276; p. 260.
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MacNicoll, Donald. (See Cockburn, D., and MacNicoll.)
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Marvick, Frederick N., Pine Bluff, Ark. Sill construction. No. 1,346,459; July 13; v. 276; p. 285.
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Master, Shaverksha D., Broach, India. Tire. No. 1,346,503; July 13; v. 276; p. 294.
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Meador, William C., assignor of one-half to E. H. Rolston, Chattanooga, Tenn. Indicator. No. 1,346,758; July 13; v. 276; p. 344.
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Medlavilla, Leopoldo, and J. L. Canales, New York, N. Y. Boring-bar. No. 1,346,230; July 13; v. 276; p. 239.
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Meitner, Elemer, Brooklyn, N. Y. Astronomical instrument. No. 1,346,412; July 13; v. 276; p. 275.
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Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Overflow-cavity for molds. No. 1,346,232; July 13; v. 276; p. 240.
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Midgley, Thomas, Sr., Columbus, and T. Midgley, Jr., Dayton, Ohio, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-core. No. 1,346,231; July 13; v. 276; p. 239.
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Minorikawa, Naosaburo, Tokyo, Japan. Stoking apparatus. No. 1,346,379; July 13; v. 276; p. 269.
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Möllerhöj, Johannes S., Frederiksberg, near Copenhagen, Denmark. Arrangement and connector for the jointing of electrical wires. No. 1,346,506; July 13; v. 276; p. 294.
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Morris, David, and W. Levy, Paterson, N. J.; said Morris assignor to said Levy. Control-lever lock for automobiles. No. 1,346,762; July 13; v. 276; p. 345.
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Mühl, Ernst, Philadelphia, Pa. Steam-condensing turbine. No. 1,346,413; July 13; v. 276; p. 276.
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Muir, Edward A., deceased; D. K. Muir, administratrix, Washington, D. C., assignor to the Government of the United States. Ordnance. No. 1,346,794; July 13; v. 276; p. 352.
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Murphy, Morton, Marion, Ind. Baffle-plate device for electric fireless cookers. No. 1,346,666; July 13; v. 276; p. 326.
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Nagel, Henry W., Chicago, Ill., assignor of one-half to A. C. Ronda. Sand-drying plant. No. 1,346,238; July 13; v. 276; p. 241.
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National Metal Edge Box Company. (See Walz, C. F., and Morris, assignor.)
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New York Couch Bed Company. (See Sisbower, G. F., and Pittoni, assignors.)
Newton, Charles H., Plainville, Conn. Valve-spring compressor. No. 1,346,416; July 13; v. 276; p. 276.
Newton, Richard T., New York, N. Y. Bumper. No. 1,346,667; July 13; v. 276; p. 326.
Newton, Richard T., New York, N. Y. Bumper. No. 1,346,668; July 13; v. 276; p. 326.
Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Electric switch. No. 1,346,553; July 13; v. 276; p. 304.
Ney, V. L., Hay Tool Company, The. (See Nunamaker, Henry S., assignor.)
Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Socket for caster. No. 1,346,239; July 13; v. 276; p. 241.
Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Caster. No. 1,346,240; July 13; v. 276; p. 241.

Nordenberg, Sigfred and S. Donner, Jennings, Mich. Sugar-beet blocker. No. 1,346,332; July 13; v. 276; p. 261.

Nordiska Kullager Aktiebolaget. (See Lindman, Konrad W., assignor.)

Norris, John, and J. I. Pearsall, Mason City, Iowa. Shingle-rebaling machine. No. 1,346,241; July 13; v. 276; p. 241.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Bergve, Einar, assignor.)

Nunamaker, Henry S., assignor to The V. L. Ney Hay Tool Company, Canton, Ohio. Hay-carrier. No. 1,346,242; July 13; v. 276; p. 242.

Nunamaker, Henry S., assignor to The V. L. Ney Hay Tool Company, Canton, Ohio. Hay-carrier. No. 1,346,243; July 13; v. 276; p. 242.

Oertli, Henri, Dale, Tex. Knife. No. 1,346,669; July 13; v. 276; p. 326.

Ohnell, Ernest J. (See Olhovsky, Vladimir, assignor.)

Olhovsky, Vladimir, assignor to E. J. Ohnell, Brooklyn, N. Y. Propeller. No. 1,346,508; July 13; v. 276; p. 295.

Olhovsky, Vladimir, New York, assignor to E. J. Ohnell, Brooklyn, N. Y. Explosion gas-turbine. No. 1,346,509; July 13; v. 276; p. 295.

Packard Motor Car Company. (See Church, Harold D., assignor.)

Packer, John H., Liberty, Mo. Oil-filter. No. 1,346,244; July 13; v. 276; p. 242.

Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Panic-bolt mechanism. No. 1,346,670; July 13; v. 276; p. 327.

Palmgren, Nils A., Gottenborg, Sweden, assignor to S K F Administrative Company, Inc., New York, N. Y. Combined radial and thrust ball-bearing. No. 1,346,417; June 13; v. 276; p. 276.

Palosky, Frederick C., assignor of one-half to S. Zimmermann, Pontiac, Mich. Chuck. No. 1,346,245; July 13; v. 276; p. 242.

Papini, Antonio, assignor to A. Meĉky Company, Philadelphia, Pa. Current-regulating plug and socket switch. No. 1,346,418; July 13; v. 276; p. 277.

Pattay, Marc-Antoine and E. Jaquemot, assignors to C. von der Weid, Geneva, Switzerland. Electric incandescent lighting apparatus. No. 1,346,661; July 13; v. 276; p. 327.

Patton, Alexander M., assignor to Charles Hurst, Limited, Belfast, Ireland. Internal-combustion engine. No. 1,346,672; July 13; v. 276; p. 327.

Pearsall, Jesse I. (See Norris, J., and Pearsall.)

Peirce, John R., New York, N. Y. Recording mechanism. (Reissue.) No. 14,915; July 13; v. 276; p. 355.

Pennington, Emory G., Miami, Tex. No. 1,346,764; July 13; v. 276; p. 346.

Perfect, Charles A., Sunbury, Ohio. Combination loader and unloader. No. 1,346,381; July 13; v. 276; p. 269.

Perrier, Hector J., Edmonton, Alberta, Canada. Camera. No. 1,346,461; July 13; v. 276; p. 286.

Perrone, Pio, Rome, Italy, assignor to Societa Anonima Italiana Gio. Ansaldo & C., Rome and Genoa, Italy. Means of defense for ships against the attacks of submarines. No. 1,346,720; July 13; v. 276; p. 337.

Peterka, John. (See Green, N. F., and Peterka.)

Petersen, Christian M. and O. J. Boden, San Francisco, Calif. Electrical apparatus. No. 1,346,606; July 13; v. 276; p. 314.

Peterson, Claus E., Worcester, Mass. Pneumatic piano-player. No. 1,346,246; July 13; v. 276; p. 242.

Peterson, Earl L., Corona, assignor to United Concrete Pipe Company, New York, N. Y. Reinforced concrete construction. No. 1,346,673; July 13; v. 276; p. 327.

Petinot, Napoleon, New York, N. Y. Producing articles of iron silicid. No. 1,346,333; July 13; v. 276; p. 261.

Petrucci, Paolo A., Pittsburgh, Pa. Water-heater for boilers. No. 1,346,334; July 13; v. 276; p. 261.

Phelps, Joseph, Belleville, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,346,607; July 13; v. 276; p. 314.

Phoenix Knitting Works. (See Schwab, Edward C., assignor.)

Pickup, George E., assignor of one-half to F. Harlow and J. Steinbaugh, Newark, Ohio. Fish-bait. No. 1,346,674; July 13; v. 276; p. 327.

Pietrobono, Philip, East Hartford, Conn. Rocking-chair attachment. No. 1,346,675; July 13; v. 276; p. 327.

Pitney, Arthur H., Wilmette, Ill., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn. Mail-marking machine and postage-meter. (Reissue.) No. 14,916; July 13; v. 276; p. 355.

Pitney-Bowes Postage Meter Company. (See Pitney, Arthur H., assignor.) (Reissue.)

Pittman, Ernest W., Flushing, N. Y., assignor to New England Westinghouse Company. Method of and machine for hardening and straightening rods. No. 1,346,419; July 13; v. 276; p. 277.

Pittoni, Louis E. (See Sisbower, G. F., and Pittoni.)

Planetz, Henry. (See Viebrock, Carl H., and H. W., assignors.)

Plastoid Products, Inc. (See Routt, O. L., McConnell, and Glaze, assignors.)

Pomijé, Frank, New Prague, Minn. Brush-cutter and ground-evener. No. 1,346,382; July 13; v. 276; p. 270.

Pond, Martin A., Bristol, assignor to Standard Carrier Company, Southington, Conn. Cash-carrier box. No. 1,346,676; July 13; v. 276; p. 328.

Pope, Joseph H., Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heels. No. 1,346,247; July 13; v. 276; p. 243.

Pope, Joseph H., Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in heel manufacture. No. 1,346,248; July 13; v. 276; p. 243.

Porter, Frank S., Cushing, assignor of one-third to R. M. Porter, Pawnee, and one-third to E. F. Herrin, Cushing, Okla. Truck and brake for railway rolling-stock. No. 1,346,765; July 13; v. 276; p. 346.

Porter, Herman P., Jacksonville, Fla. Sash-lock. No. 1,346,677; July 13; v. 276; p. 328.

Porter, Rufus M., *et al.* (See Porter, Frank S., assignor.)

Potter, Isaac B. (See Waggoner, Claude M., assignor.)

Powers Accounting Machine Company. (See Bassett, William H., assignor.)

Prall, James H. (See Innes, G., and Prall.)

Pratt, Charles S., Eau Claire, Wis. Wire clothespin. No. 1,346,608; July 13; v. 276; p. 314.

Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Box-car loader. No. 1,346,678; July 13; v. 276; p. 328.

Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Wagon-loader. No. 1,346,679; July 13; v. 276; p. 328.

Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Box-car loader. No. 1,346,680; July 13; v. 276; p. 328.

Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Car-unloader. No. 1,346,681; July 13; v. 276; p. 329.

Prenn, Joseph, Boston, Mass. Mechanical bone-conductive ear. No. 1,346,721; July 13; v. 276; p. 337.

Price, David D., Norman, Okla. Boat-oar. No. 1,346,554; July 13; v. 276; p. 304.

Price, James W., Henryetta, assignor of one-half to H. S. Miller, Henryetta, and one-eighth to G. W. Webster and one-eighth to S. S. Webster, Tulsa, Okla. Clipper. No. 1,346,249; July 13; v. 276; p. 243.

Prince, Jean A., and A. L. Gilles, Nice, France. Vehicle-tire. No. 1,346,766; July 13; v. 276; p. 243.

Puring, John, New York, N. Y. Mathematical instrument. No. 1,346,250; July 13; v. 276; p. 243.

Quick, Elroy I., *et al.* (See Erik, Emil, assignor.)

Raab, John W., and R. Edwards, Maquoketa, Iowa. Automobile-ventilator. No. 1,346,383; July 13; v. 276; p. 270.

Radium Luminous Material Corporation. (See White, Charles E., assignor.)

Ralston, John, Houston, Tex. Valve-grinder. No. 1,346,420; July 13; v. 276; p. 277.

Randolph, Oliver W., Toledo, Ohio. Grain-drier. No. 1,346,335; July 13; v. 276; p. 261.

Rathbone, De Forest L., Jacksonville, Fla. Water-heater. No. 1,346,251; July 13; v. 276; p. 244.

Rathbone, De Forest L., Jacksonville, Fla. Combination closet-seat and bidet. No. 1,346,252; July 13; v. 276; p. 244.

Rayfield, George T., Chicago, Ill. Universal coupling. No. 1,346,253; July 13; v. 276; p. 244.

Reed, Charles A., Williamsport, Pa. Ornamental rope. No. 1,346,461; July 13; v. 276; p. 286.

Reed, Richard S., Kokomo, Ind. Vehicle-tire. No. 1,346,336; July 13; v. 276; p. 261.

Reed, Thomas H., Newark, N. J. Tone-arm for talking-machines. No. 1,346,254; July 13; v. 276; p. 244.

Rees, Warren C., Somerville, assignor to Aseptic Service Company, Boston, Mass. Sanitary water-closet. No. 1,346,255; July 13; v. 276; p. 244.

Reeves, Donald H., Dayton, Ohio. Electrically-actuated pump. No. 1,346,555; July 13; v. 276; p. 304.

Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging. No. 1,346,556; July 13; v. 276; p. 304.

Reinhardt, Fannie D., Billings, Okla. Ice-cream freezer. No. 1,346,767; July 13; v. 276; p. 346.

Reichert, John, Racine, Wis. Calf and colt weaner. No. 1,346,557; July 13; v. 276; p. 305.

Reinoehl, Harry K., Defiance, Ohio. Spring-eye protector for automobiles. No. 1,346,682; July 13; v. 276; p. 329.

Remington Typewriter Company. (See Phelps, Joseph, assignor.)

Renois, John J., Corsicana, Tex. Surgical splint. No. 1,346,463; July 13; v. 276; p. 286.

Reule, Charles A., Cincinnati, Ohio. Belt-buckle. No. 1,346,795; July 13; v. 276; p. 353.

Révert, Albert, Oakland, Calif. Composite railway-tie. No. 1,346,609; July 13; v. 276; p. 315.

Rex Manufacturing Company. (See Hull, Matthew R., assignor.)

Reynolds, Joseph N., Atlantic, Iowa. Hand-covering. No. 1,346,683; July 13; v. 276; p. 329.

Richardson, Henry, Passaic, N. J. Automatic compensator for weighing-machines. No. 1,346,684; July 13; v. 276; p. 329.

Ricks, Fred, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,346,256; July 13; v. 276; p. 245.

Rightnour, George E., Kearney, Pa. Joint and chair for railway-rails. No. 1,346,384; July 13; v. 276; p. 270.

Rimailho, Emile, assignor to Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt, Paris, France. Hydraulic-joint cartridge. No. 1,346,722; July 13; v. 276; p. 337.

Rimailho, Emile, assignor to Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt, Paris, France. Road-train. No. 1,346,723; July 13; v. 276; p. 337.

Ritchie, Allen A., Houston, Tex. Automobile-lock. No. 1,346,135; July 13; v. 276; p. 221.

Ritchie, Samuel, assignor of one-third to S. L. Chicker, Ladysmith, Wis. Portable automatic door-lock and burglar-alarm. No. 1,346,768; July 13; v. 276; p. 346.

Roach, Joseph H., Philadelphia, Pa. Furnace. No. 1,346,464; July 13; v. 276; p. 286.

Roach, Joseph H., Brookline, Pa. Underfeed-stoker furnace. No. 1,346,465; July 13; v. 276; p. 286.

Roark, Ruric C., Chicago, Ill., assignor to U. S. Sanitary Products Corporation. Deodorizing material. No. 1,346,337; July 13; v. 276; p. 262.

Roberts, Henry P., assignor to Rodik Company, Boston, Mass. Stopper for bottles and similar containers. No. 1,346,510; July 13; v. 276; p. 295.

Robertson, Elmer D. B., *et al.* (See Umphrey, Henry, assignor.)

Robertson, G. D., *et al.* (See Baker, Elbridge, assignor.)

Robinson, Clarence N., Palatine Bridge, N. Y. Hermetic closure for receptacles. No. 1,346,257; July 13; v. 276; p. 245.

Robinson, George O., Port Dover, Ontario, Canada. Cone-baking machine. No. 1,346,338; July 13; v. 276; p. 262.

Rodik Company. (See Roberts, Henry P., assignor.)

Rogati, Agostino and L. Aronne, New York, N. Y. Sound-box for phonographs. No. 1,346,685; July 13; v. 276; p. 329.

Roger, Joseph, Paris, France. Apparatus for massaging the eyes. No. 1,346,724; July 13; v. 276; p. 337.

Rogers, Allen, Brooklyn, N. Y. Making leather. No. 1,346,385; July 13; v. 276; p. 270.

Rogers, Richard H., London, England. Wheel or pulley. No. 1,346,511; July 13; v. 276; p. 295.

Roiston, Emmett H. (See Meador, William C., assignor.)

Ronda, August C. (See Nagel, Henry W., assignor.)

Rose, John H., Holyoke, Mass. Swivel-truck. No. 1,346,466; July 13; v. 276; p. 286.

Rosenwasser, Paul M., assignor to The Maurice Company, Cleveland, Ohio. Measuring attachment for cans. No. 1,346,558; July 13; v. 276; p. 305.

Rosner, Rudolf, Chicago, Ill. Blower. No. 1,346,796; July 13; v. 276; p. 353.

Roth, Charles H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Telephone-reel. No. 1,346,467; July 13; v. 276; p. 287.

Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,424; July 13; v. 276; p. 278.

Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,425; July 13; v. 276; p. 278.

Roth Manufacturing Company. (See Roth, Edward N., assignor.)

Roth Manufacturing Company. (See Russell, E. A., and Harriman, assignors.)

Rothberg, Jacob B. (See Silverstein, J., and Rothberg.)

Routt, Orville L., G. C. McConnell and H. L. Glaze, assignors to Plastoid Products, Inc., Los Angeles, Calif. Machine for transporting and drying plaster-board and the like. No. 1,346,339; July 13; v. 276; p. 262.

Rowe, Knox M. (See Daugherty, John Q., assignor.)

Rubino, Giuseppe, Turin, Italy. Rim for pneumatic-tired wheels. No. 1,346,468; July 13; v. 276; p. 287.

Ruf, George. (See Heintz, J. C., and Ruf.) (Reissue.)

Runkle, John H., Jr., Rossie, Iowa. Mail-box-signal device. No. 1,346,789; July 13; v. 276; p. 351.

Russell, Arthur L., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stretching apparatus. No. 1,346,258; July 13; v. 276; p. 246.

Russell, Edward A., and S. P. Harriman, assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,421; July 13; v. 276; p. 277.

Russell, Edward A., and S. P. Harriman, assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,422; July 13; v. 276; p. 277.

Russell, Edward A., and S. P. Harriman, assignors, by mesne assignments, to Roth Manufacturing Company, Chicago, Ill. Hose-coupling. No. 1,346,423; July 13; v. 276; p. 278.

S K F Administrative Company. (See Palmgren, Nils A., assignor.)

Santilli, Stefano, Canton, Ohio. Grating device. No. 1,346,340; July 13; v. 276; p. 262.

Sargent & Company. (See Page, Albert A., assignor.)

Saurer, Firma Adolphe. (See Hänni, Ernest, assignor.)

Savage, Stanley W. (See Dabbs, A. E., Savage, and Hindle.)

Scarborough, Henry. (See Steere, Clarence E., assignor.)

Scherbner, Paul H. E., New York, N. Y. Grating. No. 1,346,426; July 13; v. 276; p. 278.

Schinkez, Albert, assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Percussion-tool. No. 1,346,341; July 13; v. 276; p. 262.

Schlieder, Augustus E., assignor to Schlieder Manufacturing Co., Detroit, Mich. Machine for trimming valves. No. 1,346,259; July 13; v. 276; p. 246.

Schlieder Manufacturing Co. (See Schlieder, Augustus E., assignor.)

Schmandt, Jacob E., Eddyville, Oreg. Bag supporting and clamping mechanism. No. 1,346,260; July 13; v. 276; p. 246.

Schmidt, Oscar, Inc. (See Haberman, Charles, assignor.)

Schmutte, Ernest A., White Bluffs, Tenn. Blade for agricultural implement. No. 1,346,261; July 13; v. 276; p. 246.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Brake for guns. No. 1,346,560; July 13; v. 276; p. 305.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun for accompanying attacking troops. No. 1,346,561; July 13; v. 276; p. 306.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gas for accompanying attacking troops. No. 1,346,562; July 13; v. 276; p. 306.

Schneider, Joseph, Cincinnati, Ohio. Automobile tire-chain and holder. No. 1,346,469; July 13; v. 276; p. 287.

Schroeder, Frank H., assignor of one-half to R. E. Edwards, Richmond, Ind. Kitchen-cabinet. No. 1,346,470; July 13; v. 276; p. 287.

Schwab, Edward C., assignor to Phoenix Knitting Works, Milwaukee, Wis. Machine for and method of producing knitted puttees and the like. No. 1,346,136; July 13; v. 276; p. 221.

Schwanke, Conrad L., Cornelius, Oreg. Rotary valve for internal-combustion engines. No. 1,346,686; July 13; v. 276; p. 330.

Scofield, Glenn M., San Diego, Calif., assignor to United Concrete Pipe Company, New York, N. Y. Reinforced-concrete conduit. No. 1,346,687; July 13; v. 276; p. 330.

Scott, Archie, Ocala, Fla. Eyeglass-chain. No. 1,346,559; July 13; v. 276; p. 305.

Scott, Walter R., Philadelphia, Pa. Lace-machine-carriage-threading mechanism. No. 1,346,790; July 13; v. 276; p. 351.

Seaman, Robert G., Summerhill, Pa. Steam-boiler furnace. No. 1,346,769; July 13; v. 276; p. 347.

Semko, Andrew. (See Sokač, J., and Semko.)

Sereduk, John, Winnipeg, Manitoba, Canada. Automobile-wheel tread. No. 1,346,262; July 13; v. 276; p. 246.

Service Machine Company, The. (See Daniels, Harry H., assignor.)

Settlage, Rudolph F., Alton, Ill., assignor to Brokaw-Eden Company. Door-lock for revolving drums. No. 1,346,263; July 13; v. 276; p. 247.

Sewell, O. A., *et al.* (See Atteberry, William A., assignor.)

Seymour, John K., assignor of one-fifth to M. H. Stearns and one-fifth to R. W. Kauffman, Elyria, Ohio. Garment supporter and fastener. No. 1,346,342; July 13; v. 276; p. 262.

Seymour Metal Goods Company, The. (See Hancock, Thomas F., assignor.)

Shaffer, Glenn. (See Gieser, C., and Shaffer.)

Sharp, Charles S., Auburn, N. Y., assignor, by mesne assignments, to International Harvester Company. Cultivator. No. 1,346,512; July 13; v. 276; p. 295.

Shaughnessy, Sara. (See Carhart, L. P., and Shaughnessy.)

Shelton, William, New York, N. Y. Torpedo-controlling mechanism. No. 1,346,264; July 13; v. 276; p. 247.

Sherbondy, Earl H., Cleveland, Ohio. Automatic control for turbo-compressors. No. 1,346,563; July 13; v. 276; p. 306.

Sherbondy, Earl H., Cleveland, Ohio. Supercharging device for turbo-compressors. No. 1,346,564; July 13; v. 276; p. 306.

Sherbondy, Earl H., Cleveland, Ohio. Turbine-control housing. No. 1,346,565; July 13; v. 276; p. 306.

Shigley, Alfred R., trustee. (See del Solar, Aristides, assignor.)

Shoenberg, Milton H., San Francisco, Calif. Combined sight-gage and valve. No. 1,346,725; July 13; v. 276; p. 337.

Shoop, Milo G. (See Masters, V. H., and Shoop.)

Shrader, James E., Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gage for low pressures. No. 1,346,427; July 13; v. 276; p. 279.

Shrader, James E., Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Mercury-manometer. No. 1,346,428; July 13; v. 276; p. 279.

Shuler, Andrew F., Arcanum, Ohio. Brooder. No. 1,346,688; July 13; v. 276; p. 330.

Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Alloy of iron, chromium, and titanium and the production thereof. No. 1,346,343; July 13; v. 276; p. 263.

Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Making chrome steel. No. 1,346,344; July 13; v. 276; p. 263.

Sillett, Harry C., and A. W. Cowan, Kansas City, assignors of one-third to W. M. Myers, St. Joseph, Mo. Hydrocarbon-gas generator and burner. No. 1,346,770; July 13; v. 276; p. 347.

Silverstein, Julius, and J. B. Rothberg, New York, N. Y. Spectacles. No. 1,346,429; July 13; v. 276; p. 279.

Silverthorne, Frank H., New York, N. Y. Bottle-valve mounting. No. 1,346,137; July 13; v. 276; p. 221.

Simmonds, Eugene B. (See Ullman, E. B., Simmonds, and Atkinson.)
Simons, Alex, Detroit, Mich. Scale-holder. No. 1,346,513; July 13; v. 276; p. 296.
Singer, George W., South Bend, Ind. Automobile-fender. No. 1,346,345; July 13; v. 276; p. 263.
Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
Siprelle, Harry A., Cleveland, Ohio. Tire. No. 1,346,546; July 13; v. 276; p. 263.
Sisbower, George F., East Orange, N. J., and L. E. Pittoni, New York, N. Y., assignors to New York Couch Bed Company, New York, N. Y. Couch-hammock. No. 1,346,689; July 13; v. 276; p. 330.
Sissel, John H., Lamont, Iowa. Tractor. No. 1,346,771; July 13; v. 276; p. 347.
Slater, Fred M. (See Bayles, L. C., and Slater.)
Slater, Vern, assignor to The Claxo Company, Iowa City, Iowa. Air-diffusion machine. No. 1,346,471; July 13; v. 276; p. 287.
Slipp, Robert R., Fort Fairfield, Me. Machine-hoe. No. 1,346,265; July 13; v. 276; p. 247.
Slipp, Robert R., Fort Fairfield, Me. Ground-working implement. No. 1,346,266; July 13; v. 276; p. 247.
Slonek, Frank G., assignor to R. M. Hvid Company, Chicago, Ill. Fuel-valve. No. 1,346,267; July 13; v. 276; p. 247.
Small, John G. (See Small, William and J. G.)
Small, Ralph B. (See Whitaker, Samuel T., assignor.)
Small, William and J. G., Paterson, N. J. Vehicle-tire. No. 1,346,514; July 13; v. 276; p. 296.
Smalley, Paul C., Newark, N. J. Flash-light device. No. 1,346,138; July 13; v. 276; p. 222.
Smedley, Thomas J. (See La Master, Vernon E., assignor.)
Smith and Furbush Machine Company. (See Coulston, Herbert V., assignor.)
Smith, Arthur M., Cleveland, Ohio. Apparatus for producing coke. No. 1,346,515; July 13; v. 276; p. 296.
Smith, Arthur R., Fort Wayne, Ind. Airplane. No. 1,346,472; July 13; v. 276; p. 288.
Smith, Edward A., New York, N. Y. Door. No. 1,346,268; July 13; v. 276; p. 247.
Smith, Frank M., Chicago, Ill. Dry-separator. No. 1,346,610; July 13; v. 276; p. 315.
Smith, George A., South Hill, Va. Cut-off sawing apparatus and using same. No. 1,346,269; July 13; v. 276; p. 248.
Smith, Joseph J., Dorchester, Mass., assignor to Loose Wiles Biscuit Company, Long Island City, New York, N. Y. Device and mechanism for depositing coating upon food products. No. 1,346,270; July 13; v. 276; p. 248.
Smith, Leonard A., U. S. Army, assignor of one-half to A. H. Cannon, Washington, D. C. Combined range-finding, plotting, predicting, and gun-adjusting device. No. 1,346,430; July 13; v. 276; p. 279.
Smith, Milo H. (See Vierling, Bartholomew, and Smith.)
Smith, Robert W. J., Houston, Tex. Power-transmitting mechanism. No. 1,346,139; July 13; v. 276; p. 222.
Smith, Thomas, Warrnambool, Victoria, Australia. Means for turning crank-pins and eccentrics and truing crank-shafts. No. 1,346,271; July 13; v. 276; p. 248.
Smithson, David B., Wellston, Okla. Animal-poke. No. 1,346,272; July 13; v. 276; p. 249.
Smolar, Frank, Dayton, Ohio. Pedestal car-seat. No. 1,346,386; July 13; v. 276; p. 270.
Snow, Philo V., Dallas, Tex. Producing prints on metal. No. 1,346,140; July 13; v. 276; p. 222.
Società Anonima Italiana Gio. Ansaldo & Co. (See Perrone, Pio, assignor.)
Societe Anonyme Ateliers Otis Pifre. (See Derungs, Ernest A., assignor.)
Societe Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville. (See Maire, Auguste, assignor.)
Sokač, John, and A. Semko, Kingston, Pa. Combination-receptacle. No. 1,346,431; July 13; v. 276; p. 279.
Spaulding, Fenton J., assignor to Link-Belt Company, Chicago, Ill. Detachable connecting-link. No. 1,346,611; July 13; v. 276; p. 315.
Spring Stopper Company. (See Brown, Harry M., assignor.)
Springer, William J., Detroit, Mich. Safety device for elevators. No. 1,346,274; July 13; v. 276; p. 249.
Stadtler, Mathias, Chicago, Ill. Slat-support for upholstery. No. 1,346,347; July 13; v. 276; p. 263.
Stamm, Ernest W., St. Louis, Mo. Box-fastener. No. 1,346,566; July 13; v. 276; p. 307.
Stamm, Hans. (See Hänni, Ernest, assignor.)
Standard Carrier Company. (See Pond, Martin A., assignor.)
Standard Parts Company, The. (See Theberath, Joseph C., assignor.)
Stearns, Milo H., *et al.* (See Seymour, John K., assignor.)
Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Can-filling machine. No. 1,346,141; July 13; v. 276; p. 222.
Steinbaugh, John, *et al.* (See Pickup, George E., assignor.)
Sterling Specialties Manufacturing Company. (See Vierling, F. J., Bartholomew, and Smith, assignors.)
Sternhagen, Joseph P. (See Getman, D. D., and Sternhagen.)
Stewart, John H. (See Bailey, C. W., and Stewart.)
Stewart-Warner Speedometer Corporation. (See Genn, John E., assignor.)
Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Seam-pounding machine. No. 1,346,275; July 13; v. 276; p. 249.
Stibbe, Godfrey, Leicester, England. Knitted glove and producing same. No. 1,346,516; July 13; v. 276; p. 296.
Stibbe, Godfrey, Leicester, England. Knitted glove and producing same. No. 1,346,517; July 13; v. 276; p. 296.
Stipes, Reuben B., and J. De Frain, Flint, Mich. Hold-down appliance. No. 1,346,387; July 13; v. 276; p. 270.
Stock Motorpflug Gesellschaft mit Beschrankter Haftung. (See Gleiche, Carl, assignor.)
Stokes, Robert J., Trenton, assignor to Thermoid Rubber Company, Hamilton township, N. J. Disk for flexible couplings and making same. No. 1,346,612; July 13; v. 276; p. 315.
Stoler, Edward W., and H. Trease, Mansfield, Ohio. Sanitary bedpan. No. 1,346,388; July 13; v. 276; p. 271.
Stone, Andrew H., Kansas City, Mo. Extension-table. No. 1,346,276; July 13; v. 276; p. 249.
Storrer, Hermann F., New York, N. Y., assignor to J. M. Voith Company, Inc. Pulp-refiner. No. 1,346,277; July 13; v. 276; p. 250.
Stover, Paul A., Cleveland, Ohio. Automobile-signal. No. 1,346,567; July 13; v. 276; p. 307.
Strang, Fred W., assignor to Gibraltar Tire & Rubber Company, Dallas, Tex. Making cushion-tires. No. 1,346,389; July 13; v. 276; p. 271.
Stuart, Francis L., New York, N. Y. Apparatus for gathering and conveying material. No. 1,346,390; July 13; v. 276; p. 271.
Stupar, Max., assignor to A. J. Elias, Buffalo, N. Y. Hoisting device for flying-machines. No. 1,346,772; July 13; v. 276; p. 347.
Sudbury, Sherman E., Salt Lake City, Utah. Automatically-operated support. No. 1,346,773; July 13; v. 276; p. 347.
Sundh, August, Hastings-upon-Hudson, N. Y. Window-cleaning device. No. 1,346,348; July 13; v. 276; p. 263.
Swan, William R., assignor to J. J. Woolverton, South Bend, Ind. Rust-preventing treatment. No. 1,346,473; July 13; v. 276; p. 288.
Swift, William S., New York, N. Y. Skate-scabbard attachment. No. 1,346,568; July 13; v. 276; p. 307.
Switzyk, John, Meota, Saskatchewan, Canada. Cattle-yoke. No. 1,346,278; July 13; v. 276; p. 260.
Sydeman, Abraham. (See Thoma, Andrew, assignor.)
Tackabury, George W., *et al.* (See Baker, Elbridge, assignor.)
Taliaferro, John C., Baltimore, Md., and I. F. Warme, assignors to Continental Can Company, Incorporated, Syracuse, N. Y. Gang filling and closing machine. No. 1,346,613; July 13; v. 276; p. 315.
Tarbell, H. J., *et al.* (See Bragdon, George W., assignor.)
Tarbell, P. H., *et al.* (See Bragdon, George W., assignor.)
Tarn, Thomas R., Brooklyn, N. Y. Screw-propelled chambered-stern towboat. No. 1,346,279; July 13; v. 276; p. 250.
Tate, John C., Oakland, Calif. Absorbing and purifying composition. No. 1,346,349; July 13; v. 276; p. 264.
Taylor, Earl A., Buffalo, N. Y., assignor to Maxwell Motor Co., Inc., Detroit, Mich. Electrical welding process. No. 1,346,350; July 13; v. 276; p. 264.
Taylor, James O., Providence, R. I. Oil-gas burner. No. 1,346,391; July 13; v. 276; p. 271.
Taylor-Wharton Iron and Steel Company. (See Crook, A., and Chapman, assignors.)
Teegarden, Chester H., Washington, D. C. Receiving telegraph-signals. No. 1,346,614; July 13; v. 276; p. 315.
Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,346,142; July 13; v. 276; p. 222.
Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Fire-door lock. No. 1,346,143; July 13; v. 276; p. 223.
Tenney, Charles H. (See Burgi, Herman, assignor.)
Theberath, Joseph C., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,346,569; July 13; v. 276; p. 307.
Thermoid Rubber Company. (See Stokes, Robert J., assignor.)
Thoma, Andrew, Cambridge, assignor to A. Sydeman, Boston, Mass. Coating fabrics. No. 1,346,615; July 13; v. 276; p. 315.
Thomas, Ivor D., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Oven-door-shifting mechanism. No. 1,346,474; July 13; v. 276; p. 288.
Thomas, John G. P., Barnes, England. Internal-combustion engine. No. 1,346,280; July 13; v. 276; p. 250.
Thompson, Henry E., Newark, N. J. Awning device. No. 1,346,351; July 13; v. 276; p. 264.
Thompson, Hugh L., Kansas City, Mo. Device for applying liquid coatings to elongated bodies. No. 1,346,726; July 13; v. 276; p. 338.
Thompson, William D., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,346,281; July 13; v. 276; p. 250.
Tibbs, Joseph B., assignor of one-half to T. Tibbs, Tibbs, Miss. Cotton-picking machine. No. 1,346,282; July 13; v. 276; p. 251.
Tibbs, Thomas. (See Tibbs, Joseph B., assignor.)
Tillyer, Edgar D. (See Bugbee, L. W., and Tillyer.)

Traylor, Wayne M. (See Ellis, Warren E., assignor.)
Treichel, Albert R., and E. J. Brock, St. Louis, Mo. Packing apparatus. No. 1,346,616; July 13; v. 276; p. 316.
Torris Wold & Company. (See Cameron, William, assignor.)
Towner, Leroy H., Muskogee, Okla. Attachment for earth-working machines. No. 1,346,432; July 13; v. 276; p. 280.
Trease, Howard. (See Stoler, E. W., and Trease.)
Triggs, Kenneth F., Dayton, Ohio. Thermo safety-valve. No. 1,346,791; July 13; v. 276; p. 352.
Troy Laundry Machinery Company. (See Bartholomew, William, assignor.)
Tucker, E. P., *et al.* (See Baker, Elbridge, assignor.)
Tucker, Leonard M., Seattle, Wash. Manually-propelled vehicle. No. 1,346,727; July 13; v. 276; p. 338.
Turbine Air Tool Company, The. (See Kraber, George L., assignor.)
Turner, William L., Atherstone, England. Manufacture of ferrochromium. No. 1,346,728; July 13; v. 276; p. 338.
Tweeddale, Daniel E., assignor of one-half to J. Chiodo, San Francisco, Calif. Button-fastener. No. 1,346,352; July 13; v. 276; p. 264.
U. S. Sanitary Products Corporation. (See Roark, Rurie C., assignor.)
Ullman, Edgar B., E. B. Simmonds, and A. F. Atkinson, Muncie, Ind.; said Simmonds assignor to said Atkinson. Heat and vapor bath cabinet. No. 1,346,353; July 13; v. 276; p. 264.
Umphrey, Henry, Carleton Place, Ontario, Canada, assignor of one-third to E. D. B. Robertson and one-third to H. D. Humphrey, Ontario, Canada. Support for window-blind roller, curtain, valance, and the like. No. 1,346,354; July 13; v. 276; p. 264.
Underwood Computing Machine Company. (See Corell, Clifton B., assignor.)
United Concrete Pipe Co. (See Bartram, George C., assignor.)
United Concrete Pipe Company. (See Peterson, Earl L., assignor.)
United Concrete Pipe Company. (See Scofield, Glenn M., assignor.)
United Shoe Machinery Corporation. (See Aston, Albert A., assignor.)
United Shoe Machinery Corporation. (See Ashton, Orrell, assignor.)
United Shoe Machinery Corporation. (See Bohanon, Budd D., assignor.)
United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)
United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)
United Shoe Machinery Corporation. (See Russell, Arthur L., assignor.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
United Shoe Machinery Corporation. (See Warren, George E., assignor.)
United States Ferro-Alloys Corporation. (See Sicard, Hugh C., assignor.)
United States, Government of the. (See Muir, Edward A., assignor.)
Universal Engineering Company. (See Andrews, E. F., and Acre, assignors.)
Universal Patents Company. (See Jennings, Victor H., assignor.)
Uppercu, Inglis M., New York, N. Y. Valve mechanism. No. 1,346,617; July 13; v. 276; p. 316.
Van Camp Packing Co., The. (See Lemon, Robert L., assignor.)
Vanderlip, Louis C., Elkhart, Ind. Pneumatic conveyer. No. 1,346,144; July 13; v. 276; p. 223.
Vanderveer, Jean J., Brattleboro, Vt. Bookmark. No. 1,346,729; July 13; v. 276; p. 338.
Van Keuren, Henry P., Lansing, Mich. Airplane. No. 1,346,570; July 13; v. 276; p. 307.
Varland, Hiram H., Clark, S. D. Combined manure loader and spreader. No. 1,346,433; July 13; v. 276; p. 280.
Vass, Harry, Summit, N. J. Tractor-wheel. No. 1,346,145; July 13; v. 276; p. 223.
Verey, Ernest. (See Cutler, C., and Morand, assignors.)
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vickers Limited. (See Dawson, A. T., and Horne, assignors.)
Vickers Limited. (See Ella, Giovanni E., assignor.)
Vickers Limited. (See Francis, Charles E., assignor.)
Viebrock, Carl H., and H. W., assignors of one-tenth to H. Planetz, Douglas, Wash. Nut-lock. No. 1,346,730; July 13; v. 276; p. 338.
Viebrock, Henry W. (See Viebrock, Carl H., and H. W.)
Vierling, Frank J., F. R. Bartholomew, and M. H. Smith, assignors to Sterling Specialties Manufacturing Company, Minneapolis, Minn. Egg-boiling rack. No. 1,346,283; July 13; v. 276; p. 251.
Vogelzang, Frank, Rock Valley, Iowa. Fuel-pipe lock device. No. 1,346,774; July 13; v. 276; p. 348.
Vogelzang, Frank, Rock Valley, Iowa. Advertising device. No. 1,346,775; July 13; v. 276; p. 348.
Voith, J. M., Company. (See Storrer, Hermann F., assignor.)
Von der Weid, Charles. (See Pattay, M., and Jaquemot, assignors.)
Wadsworth, Frank L. O., Pittsburgh, Pa. Method and apparatus for the manufacture of pressed-sheet-glass products. No. 1,346,571; July 13; v. 276; p. 307.
Waggoner, Claude M., assignor of one-half to I. B. Potter, Riverside, Calif. Ladder. No. 1,346,518; July 13; v. 276; p. 297.
Wajdic, Petar, Pleasant Unity, Pa. Tire-pump. No. 1,346,284; July 13; v. 276; p. 251.
Wald, Julius H., Chicago, Ill. Kettle-drainer. No. 1,346,355; July 13; v. 276; p. 264.
Walker, Stoughton L., and J. M. Lawrenson, Jersey Shore, Pa. Collapsible container. No. 1,346,731; July 13; v. 276; p. 339.
Walker, Thomas H., Wallace, Idaho. Current-motor. No. 1,346,285; July 13; v. 276; p. 251.
Walter, Frank L., Dayton, Ohio. Gage. No. 1,346,572; July 13; v. 276; p. 308.
Walz, Charles F., and F. D. Morris, assignors, by mesne assignments, to National Metal Edge Box Company, Philadelphia, Pa. Box-staying machine. No. 1,346,573; July 13; v. 276; p. 308.
Warga, Kalman, assignor to Metallograph Corporation, New York, N. Y. Decorating metal surfaces. No. 1,346,475; July 13; v. 276; p. 288.
Warme, Ivar F. (See Taliaferro, J. C., and Warme.)
Warner & Swasey Company, The. (See Burger, W. J., and Lange, assignors.)
Warren, George E., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe. No. 1,346,146; July 13; v. 276; p. 223.
Washburn, Howard L., assignor to C. S. Ballard, assignee, Springfield, Mass. Universal joints. No. 1,346,776; July 13; v. 276; p. 348.
Waterhouse, Leslie V., Queenstown, Tasmania, Australia. Apparatus for the treatment of sulfid ores. No. 1,346,286; July 13; v. 276; p. 251.
Watrous, Agnes B., executrix. (See Watrous, Edward L.)
Watrous, Edward L., deceased, El Paso, Tex., A. B. Watrous, executrix. Method and apparatus for coating pipes, bars, angles, and the like. No. 1,346,618; July 13; v. 276; p. 316.
Weathersby, John R., Middlesex, N. C. Farm-level. No. 1,346,619; July 13; v. 276; p. 316.
Weaver, James H., Aberdeen, Wash. Jar-holder. No. 1,346,732; July 13; v. 276; p. 339.
Webster, Edgar P., Bridgeport, Conn. Universal roller-bearing. No. 1,346,147; July 13; v. 276; p. 223.
Webster, G. W., *et al.* (See Price, James W. assignor.)
Webster, Hyleman A., Columbia, Tenn. Producing pyrophosphates. No. 1,346,148; July 13; v. 276; p. 224.
Webster, S. S., *et al.* (See Price, James W., assignor.)
Wecht, Charles L., Logansport, Ind. Toy swinging chair. No. 1,346,620; July 13; v. 276; p. 317.
Welbull, Ernest H. W. (See Enström, E., and Welbull.)
Weisgerber, Edwin C., U. S. Army. Fuse-plug. No. 1,346,574; July 13; v. 276; p. 308.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Fireproofing wood. No. 1,346,287; July 13; v. 276; p. 251.
Weiss Instrument Company, The. (See Edstrom, Karl A., assignor.)
Weitzel, Henry C., Baltimore, Md. Side dumping wagon. No. 1,346,575; July 13; v. 276; p. 308.
Welch, Jesse C., Tacoma, Wash. Amusement device. No. 1,346,576; July 13; v. 276; p. 308.
Welch, William H. (See Colvin, Shady D., assignor.)
Wellman-Seaver-Morgan Company, The. (See Thomas, Ivor D., assignor.)
Wells, Harold D., Glens Falls, N. Y. Screening or filtering apparatus. No. 1,346,690; July 13; v. 276; p. 331.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Automatic reel-threading device. No. 1,346,356; July 13; v. 276; p. 265.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Variable-speed mechanism. No. 1,346,357; July 13; v. 276; p. 265.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Signal device for kinetoscopes. No. 1,346,358; July 13; v. 276; p. 265.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Projection-lamp house. No. 1,346,359; July 13; v. 276; p. 265.
Western Electric Company. (See Hazard, Allen B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lovell, William V., assignor.)
Westinghouse Electric and Manufacturing Company. (See Shrader, James E., assignor.)
Weston, Louis B. (See Collins, J. F., and Weston.)
Wheeler, Henry J., Buffalo, N. Y. Machine for trimming the ends of articles. No. 1,346,288; July 13; v. 276; p. 252.
Whitaker, Richard, Jr., assignor to Manufacturers Iron & Steel Company, New Brunswick, N. J. Pliers. No. 1,346,392; July 13; v. 276; p. 271.
Whitaker, Samuel T., assignor of fifty-one per cent to R. B. Small, Columbus, Ga. Bottle-closure attachment. No. 1,346,621; July 13; v. 276; p. 317.
Whitbeck, John E., Rochester, N. Y. Radiator. No. 1,346,577; July 13; v. 276; p. 309.

White, Charles E., Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y. Luminous marking device. No. 1,346,360; July 13; v. 276; p. 266.
White, William B., Des Moines, Iowa. Combination pencil-clip and spectacle-holder. No. 1,346,777; July 13; v. 276; p. 348.
Whiter, Edward T., Pittsburgh, Pa. Shirt attachment. No. 1,346,733; July 13; v. 276; p. 339.
Whitney Mfg. Co., The. (See Müller, Friederich, assignor.)
Whiting Foundry Equipment Company. (See McDougall, Andrew H., assignor.)
Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Motor-vehicle. No. 1,346,149; July 13; v. 276; p. 224.
Wilber, Le Roy G., Sequin, Wash. Valve. No. 1,346,289; July 13; v. 276; p. 252.
Willard, Arthur M., Chicago, Ill. Seal-press. No. 1,346,150; July 13; v. 276; p. 224.
Williams, Frank L., Detroit, Mich. Pedal extension. No. 1,346,361; July 13; v. 276; p. 266.
Williams, John C., Warwood, W. Va. Awning-roller support. No. 1,346,622; July 13; v. 276; p. 317.
Williams, William E., Chicago, Ill., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Making tire-casings. No. 1,346,623; July 13; v. 276; p. 317.
Willys-Overland Company, The. (See McKinley, Charles W., assignor.)
Windsor, Walter E., Baltimore, Md. Bolt-fastening. No. 1,346,578; July 13; v. 276; p. 309.
Winstein, Max, Montreal, Quebec, Canada. Mattress-guard. No. 1,346,579; July 13; v. 276; p. 309.
Winston, Overton, Minneapolis, Minn. Headlight. No. 1,346,519; July 13; v. 276; p. 297.
Winston, Overton, Minneapolis, Minn. Headlight. No. 1,346,520; July 13; v. 276; p. 297.
Wollenhaupt, Justus J. (See Doyle, W. J., and Wollenhaupt.)
Wood, Frank J., Brooklyn, assignor to Worcester Salt Company, New York, N. Y. Purifying salt. No. 1,346,624; July 13; v. 276; p. 317.
Wood, Montraville M., Berwyn, Ill. String message-holder for wireless or other telegraph mechanism. No. 1,346,476; July 13; v. 276; p. 288.
Wood, Robert W., Baltimore, Md. Flash-telescope. No. 1,346,580; July 13; v. 276; p. 309.
Woodhouse, George, Butte, Mont. Pen or pencil clip. No. 1,346,393; July 13; v. 276; p. 271.
Woodin, William H. (See Gibbs, Frederick H., assignor.)
Woodward, Esther A. (See Woodward, Frederick P., assignor.)
Woodward, Frederick P., Topsfield, assignor of one-half to E. A. Woodward, Boston, Mass. Resilient inner tube for vehicle-tires. No. 1,346,290; July 13; v. 276; p. 252.
Woodward, Robert S., Jr., Philadelphia, Pa. Power-transmitting apparatus. No. 1,346,625; July 13; v. 276; p. 318.
Woolverton, John J. (See Swan, William R., assignor.)
Worcester Salt Company. (See Wood, Frank J., assignor.)
Wornstaff, Richard A., Weldon, Iowa. Combination motor-vehicles. No. 1,346,778; July 13; v. 276; p. 349.
Worster, Arthur E., Vancouver, British Columbia, Canada. Apparatus for sealing preserving-jars. No. 1,346,434; July 13; v. 276; p. 280.
Worster, Arthur E., Vancouver, British Columbia, Canada. Preserving-jar. No. 1,346,435; July 13; v. 276; p. 280.
Wulf, Charles A., Indianapolis, Ind. Flushing system. No. 1,346,362; July 13; v. 276; p. 266.
York, Aaron L., Jr., Liberty, N. C. Extension-moldboard. No. 1,346,363; July 13; v. 276; p. 266.
York, William M. (See Fisher, R. E., and York.)
Yost, Willis K., Little Rock, Ark. Load-carrier for automobiles. No. 1,346,581; July 13; v. 276; p. 309.
Young, James T., St. Louis, Mo. Automatic Carbureter-regulator. No. 1,346,734; July 13; v. 276; p. 339.
Young, Walter H., Highland Park, Mich. Governor. No. 1,346,521; July 13; v. 276; p. 297.
Young, William H. F., Muncie, Ind. Sealing attachment for fruit-jars. No. 1,346,735; July 13; v. 276; p. 339.
Yurow, Andrew, New York, N. Y. Burglar-proof lock. No. 1,346,364; July 13; v. 276; p. 266.
Zbranek, Joseph, Hallettsville, Tex. Plow. No. 1,346,436; July 13; v. 276; p. 281.
Zimmermann, Simon. (See Palosky, Fredrick C., assignor.)
Zwolinski, Anton, Cleveland, Ohio. Extensible chair-bed. No. 1,346,582; July 13; v. 276; p. 309.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Allen, Henry, Springfield Gardens, N. Y. Watch-fob, locket, or pendant. No. 55,735; July 13; v. 276; p. 356.
American Ocarina & Toy Co. (See Malavarca, Eduardo, assignor.)
Archer, John, San Jose, Calif. Badge. No. 55,736; July 13; v. 276; p. 356.
Armorcord Rubber Company, The. (See McLane, Joseph A., assignor.)
Atherly, Harry C., San Francisco, Calif. Lamp-stand. No. 55,737; July 13; v. 276; p. 356.
Autoset Clamp Company, The. (See Townsend, Charles R., assignor.)
Ball, George E., Bridgeport, Conn., assignor to Whiting Manufacturing Company, New York, N. Y. Teapot or similar article of hollow ware. No. 55,738; July 13; v. 276; p. 356.
Bassett, George F., and Company. (See Tatler, Edgar L., assignor.)
Becker, Johannes P., Berkeley, Calif. Auto signal-light. No. 55,739; July 13; v. 276; p. 356.
Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Speedometer face-plate. Nos. 55,740–1; July 13; v. 276; p. 357.
Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
Biltwell Tire & Rubber Company, The. (See Trump, Elno H., assignor.)
Booth, Earl C., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Vending-cabinet. No. 55,742; July 13; v. 276; p. 357.
Brush, Albert. (See Vories, Charles A., assignor.)
Carls, Marcus J., and H. F. Prucha, Los Angeles, Calif. Cart. No. 55,743; July 13; v. 276; p. 357.
Champion Ignition Company. (See Berge, Joseph, assignor.)
Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Range. Nos. 55,744–5; July 13; v. 276; p. 357.
Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Range-body. No. 55,746; July 13; v. 276; p. 358.
Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Warming-oven for a range. No. 55,747; July 13; v. 276; p. 358.
Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Stove-door or similar article. No. 55,748; July 13; v. 276; p. 358.
Cole Manufacturing Company. (See Cole, Edward P., assignor.)
Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. Nos. 55,749–50; July 13; v. 276; p. 358.
Continental Sheffield Silver Co. (See Gaertner, Victor, assignor.)
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Aquarium-stand. Nos. 55,751–4; July 13; v. 276; p. 359.
Delikat, Thomas, Newark, N. J. Combined hatpin and point-protector. No. 55,755; July 13; v. 276; p. 359.
Denning, Patrick F., Cleveland, Ohio. Individual article-holder. No. 55,756; July 13; v. 276; p. 360.
Dorer, Primus O. (See Rogers, R. H., and Dorer.)
Easby, Thomas B., assignor to New York Stamping Company, Brooklyn, N. Y. Crumb set. Nos. 55,757–8; July 13; v. 276; p. 360.
Ebeling, Phillip, Washington, Pa., assignor to Imperial Glass Company, Bellaire, Ohio. Article of glassware. No. 55,759; July 13; v. 276; p. 360.
Edwards, Charles T. (See Johnston, Clifford E., assignor.)
Elgin National Watch Company. (See Goodrow, Francis A., assignor.)
Erickson, Claus E., Des Moines, Iowa. Thermometer. No. 55,760; July 13; v. 276; p. 361.
Esch, Henry, Jr., Manitowoc, Wis. Combined collar-button and tie-slide or similar article. No. 55,761; July 13; v. 276; p. 361.
Ewald, Arno A., Oakfield, Wis. Casing for a combined air and water dispenser. No. 55,762; July 13; v. 276; p. 361.
Fern, John A., Cincinnati, Ohio, assignor to E. H. McConnell, trustee, Memphis, Tenn. Talking-machine. Nos. 55,763–7; July 13; v. 276; p. 361.
Fox, Albert S., Chicago, Ill. Automobile-tire. No. 55,768; July 13; v. 276; p. 362.
French, Alice M., Indianapolis, Ind. Pin, emblem, or article of similar nature. No. 55,769; July 13; v. 276; p. 362.
Gaertner, Victor, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Bread-tray or similar article. No. 55,770; July 13; v. 276; p. 362.
Gaertner, Victor, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Gallery-mount for hollow tableware. Nos. 55,771–2; July 13; v. 276; p. 363.
Gaertner, Victor, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Article of hollow tableware. Nos. 55,773–6; July 13; v. 276; p. 363.

Gage, Henry P., and Emilio Pascucci, Corning, N. Y. Light cover glass. No. 55,777; July 13; v. 276; p. 364.
Gibson, Francis W., West Roxbury, Mass. Display-rack. No. 55,778; July 13; v. 276; p. 364.
Gillinder Brothers. (See Gillinder, Edwin B., assignor.)
Gillinder, Edwin B., assignor to Gillinder Brothers, Port Jervis, N. Y. Lighting-globe. Nos. 55,779–80; July 13; v. 276; p. 364.
Goodrow, Francis A., assignor to Elgin National Watch Company, Elgin, Ill. Hands of a timepiece. Nos. 55,781–6; July 13; v. 276; p. 365.
Greenberg, Barnet, Chicago, Ill. Raincoat. No. 55,787; July 13; v. 276; p. 366.
Griffin, John B., Newington, Conn. Novelty picture-bracelet. No. 55,788; July 13; v. 276; p. 366.
Hale, Willis W., Cleveland, Ohio. Electric heater. No. 55,789; July 13; v. 276; p. 366.
Heathcote, Edwin C., Brooklyn, N. Y. Emblem, pin, button, watch-charm, medal, or similar article. No. 55,790; July 13; v. 276; p. 366.
Heckmann, Harry G., Binghamton, N. Y. Internally-heated flatiron. No. 55,791; July 13; v. 276; p. 366.
Holcomb & Hoke Manufacturing Co. (See Booth, Earl C.)
Hoodwin, J. W., Company. (See Reisfield, Louis, assignor.)
Hudgins, Patrick L., Decatur, Ga. Automobile-tool. No. 55,792; July 13; v. 276; p. 367.
Imperial Glass Company. (See Ebeling, Phillip, assignor.)
Irwin, Beatrice, New York, N. Y. Light-filter. No. 55,793; July 13; v. 276; p. 367.
Jardella, Aristide, New York, N. Y. Porcupine toothpick-holder. No. 55,794; July 13; v. 276; p. 367.
Johnston, Clifford E., assignor of one-half to Charles T. Edwards, St. Louis, Mo. Statuette or similar article. No. 55,795; July 13; v. 276; p. 367.
Kapneck, Henry, Washington, D. C. Support. Nos. 55,796–7; July 13; v. 276; p. 367.
Klapp, Elmer A., New York, N. Y. Emblem, banner, or armband. No. 55,798; July 13; v. 276; p. 368.
Klapp, Elmer A., New York, N. Y. Hero-emblem pin or button. No. 55,799; July 13; v. 276; p. 368.
Klepser, Jacob R., Brady, Mont. Memorial tablet. No. 55,800; July 13; v. 276; p. 368.
Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 55,801; July 13; v. 276; p. 368.
La Fayette Motors Company. (See Simpson, Warren W., assignor.)
Lillie, Arthur C., Los Angeles, Calif. Windshield. No. 55,802; July 13; v. 276; p. 369.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. Nos. 55,803–4; July 13; v. 276; p. 369.
McCauley, Joseph H. (See Tippett, Charles L., assignor.)
McConnell, E. H., trustee. (See Fern, John A., assignor.)
McLane, Joseph A., assignor to The Armorcord Rubber Company, Morgantown, W. Va. Tread of vehicle-tires. No. 55,808; July 13; v. 276; p. 370.
Mahin, Harold J., New York, N. Y., assignor to Syracuse Rubber Company, Inc., Syracuse, N. Y. Bulletin-board. No. 55,805; July 13; v. 276; p. 369.
Malavarca, Eduardo, assignor to American Ocarina & Toy Co. Inc., Newark, N. J. Doll. No. 55,806; July 13; v. 276; p. 369.
Martin, Adolf, Trenton, N. J. Surface decoration for china, glass, or like articles. No. 55,807; July 13; v. 276; p. 369.
Metzger, Myer, Chicago, Ill. Combined vending and display stand. No. 55,809; July 13; v. 276; p. 370.
Morse, Leo, New York, N. Y. Figure toy. No. 55,810; July 13; v. 276; p. 370.
New York Stamping Company. (See Easby, Thomas B., assignor.)
Ouzoun-Boghossian, Sissak K., Washington, D. C. Typewriter-frame. Nos. 55,811–12; July 13; v. 276; p. 370.
Owen, William C., Cleveland, Ohio. Tire-casing. No. 55,813; July 13; v. 276; p. 370.
Pascucci, Emilio. (See Gage, H. P., and Pascucci.)
Pasquarelli, Menotti F., San Francisco, Calif. Shoe. No. 55,814; July 13; v. 276; p. 371.
Pinkney, Bryan D., assignor to The Triumph Manufacturing Company, Cincinnati, Ohio. Beater for mixing-machines. No. 55,815; July 13; v. 276; p. 371.
Prucha, Henry F. (See Carls, M. J., and Prucha.)
Reisfeld, Louis, assignor to J. W. Hoodwin Company, Chicago, Ill. Punch-board. No. 55,817; July 13; v. 276; p. 371.
Richard, François, Cleveland, Ohio. Automobile-body. No. 55,816; July 13; v. 276; p. 371.
Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
Robb, James T., Bay Shore, N. Y. Portable lamp. No. 55,818; July 13; v. 276; p. 371.
Roebuck, Harry J., Troy, N. Y. Snap-hook. No. 55,819; July 13; v. 276; p. 371.
Rogers, Richard H., and P. O. Dorer, assignors to S. Smith & Sons (Motor Accessories) Limited, London, England. Switch-casing. No. 55,820; July 13; v. 276; p. 372.
Sessions, Alfred D. E., Red Wing, Minn. Hairpin. No. 55,821; July 13; v. 276; p. 372.
Simpson, Warren W., Indianapolis, Ind., assignor to La Fayette Motors Company. Radiator-shell for motor-vehicles. No. 55,822; July 13; v. 276; p. 372.
Smith, S., & Sons (Motor Accessories). (See Rogers, R. H., and Dorer, assignors.)
Smith, Walter S., Columbus, Ohio. Scale-tower. No. 55,823; July 13; v. 276; p. 372.
Smith, Walter S., Columbus, Ohio. Scale. No. 55,824; July 13; v. 276; p. 372.
Spiringer, Arthur P., Erie, Pa. Kiddie-cycle. No. 55,825; July 13; v. 276; p. 372.
Stih, John A., La Salle, Ill. Garter. No. 55,826; July 13; v. 276; p. 373.
Syracuse Rubber Company. (See Mahin, Harold J., assignor.)
Tatler, Edgar E., Trenton, N. J., assignor to George F. Bassett and Company, New York, N. Y. Plate or similar article. No. 55,827; July 13; v. 276; p. 373.
Taylor, Halsey W., Warren, Ohio. Drinking-fountain bowl. No. 55,828; July 13; v. 276; p. 373.
Tin Decorating Company of Baltimore, The. (See Connor, Martha H., assignor.)
Tippett, Charles L., assignor of one-half to J. H. McCauley, Washington, D. C. Lamp. No. 55,829; July 13; v. 276; p. 373.
Townsend, Charles R., assignor to The Autoset Clamp Company, Limited, Birmingham, England. Clamping-dog. Nos. 55,830–1; July 13; v. 276; p. 373.
Triumph Manufacturing Company. (See Pinkney, Bryan D., assignor.)
Trump, Elno H., assignor to The Biltwell Tire & Rubber Company, Barberton, Ohio. Elastic vehicle-tire. No. 55,832; July 13; v. 276; p. 374.
Vories, Charles A., assignor to Albert Brush, Los Angeles, Calif. Signal-light for automobiles. No. 55,833; July 13; v. 276; p. 374.
Waldo, Algermont H., St. Paul, Minn. Rug. No. 55,834; July 13; v. 276; p. 374.
Whiting Manufacturing Company. (See Ball, George E., assignor.)
Withers, Ida A., Fort Worth, Tex. Statuette. No. 55,835; July 13; v. 276; p. 374.
Young, John C., Kansas City, Mo. Flag. No. 55,836; July 13; v. 276; p. 375.
Ziv, Abraham J., Chicago, Ill. Hat. No. 55,837; July 13; v. 276; p. 375.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aircraft & Motor Products Co., New York, N. Y. Spark-plugs. No. 133,097; July 13; v. 276; p. 401.
Alter, Frank W., Chicago, Ill. Timepieces. No. 133,098; July 13; v. 276; p. 401.
Baird, David, and Son, Louisville, Ky. Women's, misses', and children's trimmed hats. No. 133,099; July 13; v. 276; p. 401.
Bargman, Theodore, Detroit, Mich. Clock and watch dials. No. 133,100; July 13; v. 276; p. 401.
Blickensderfer Manufacturing Company, The, (now by judicial change of name The Blick Typewriter Company,) Stamford, Conn. Typewriters. No. 133,101; July 13; v. 276; p. 401.
Blue Ridge Metals Corporation, Roanoke, Va., and Pittsburgh, Pa. Metals and metal castings and forgings. No. 133,102; July 13; v. 276; p. 401.
Boord & Son (Incorporated), London, England. Distilled alcoholic liquors. No. 133,103; July 13; v. 276; p. 401.
Borgfelt, George, & Co., New York, N. Y. Table and fancy glassware. No. 133,104; July 13; v. 276; p. 401.
Burton, Oliver M., Chicago, Ill. Toys. No. 133,105; July 13; v. 276; p. 401.
Cherry Tree Machine Company, Cherry Tree borough, Pa. Electrical apparatus, machines, and supplies. No. 133,107; July 13; v. 276; p. 401.
Bury Compressor Company, Erie, Pa. Compressor-valves. No. 133,106; July 13; v. 276; p. 401.
Chicago Pneumatic Tool Company, Chicago, Ill. Cutlery, machinery, and tools, and parts thereof. No. 133,108; July 13; v. 276; p. 401.
Cisco, Inc., New York, N. Y. Clothing. No. 133,109; July 13; v. 276; p. 401.
Computing Cheese Cutter Co., Anderson, Ind. Computing cheese-cutters. No. 133,110; July 13; v. 276; p. 401.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 133,111; July 13; v. 276; p. 401.
Crockett, Albert S., New York, N. Y. Ouija-boards. No. 133,112; July 13; v. 276; p. 401.
Davis, Charles C., Chicago, Ill. Twines, string, and cordage, of cotton, jute, hemp, and flax. No. 133,113; July 13; v. 276; p. 401.
De Beer, J., & Son, Albany, N. Y. Baseballs. No. 133,114; July 13; v. 276; p. 401.
Dental Products Company, Chicago, Ill. Surgical appliances. No. 133,115; July 13; v. 276; p. 401.
Detroit Soluble Oil Co., Detroit, Mich. Core-oils and adhesive core compounds. No. 133,116; July 13; v. 276; p. 401.

Dockendorff, J. E., & Co. Inc., New York, N. Y. Electrical apparatus, machines, and supplies. No. 133,117; July 13; v. 276; p. 401.

Dockendorff, J. E., & Co. Inc., New York, N. Y. Electrical supplies. Nos. 133,118–9; July 13; v. 276; p. 401.

Dockendorff, J. E., & Co. Inc., New York, N. Y. Nickel-manganese-alloy wire for electrical purposes. No. 133,120; July 13; v. 276; p. 401.

Dodd, Philip S., Babylon, N. Y. Composition packing. No. 133,121; July 13; v. 276; p. 401.

Dry Milk Company, The, New York, N. Y. Dry milk. No. 133,122; July 13; v. 276; p. 401.

Dural Rubber Corporation, Flemington, N. J. Inner tubes for vehicle-tires. No. 133,123; July 13; v. 276; p. 401.

Eastern Brass and Ingot Corporation, Chicago, Ill. Non-ferrous metal ingots. No. 133,124; July 13; v. 276; p. 401.

Eastman Kodak Company, The, Rochester, N. Y. Photographic film. No. 133,125; July 13; v. 276; p. 401.

Everett Knitting Works, Lebanon, N. H. Men's, women's, and children's knitted underwear. No. 133,126; July 13; v. 276; p. 401.

Fair, The, Chicago, Ill. Hosiery. No. 133,127; July 13; v. 276; p. 402.

Fearing, Whitton & Co., Boston, Mass. Cotton piece goods. No. 133,128; July 13; v. 276; p. 402.

Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and steel. No. 133,129; July 13; v. 276; p. 402.

Fowler Nail Co., The, Seymour, Conn. Molder's nails, used in metal foundries. No. 133,130; July 13; v. 276; p. 402.

George, Maude S., St. Louis, Mo. Sanitary goods for hospitals and home use. No. 133,131; July 13; v. 276; p. 402.

Gilbert, A. C., Company, New Haven, Conn. Games and toys. No. 133,132; July 13; v. 276; p. 402.

Gilcrease, Leonard L., Reno, Nev. Machinery and tools and parts thereof. No. 133,133; July 13; v. 276; p. 402.

Grayson, J. H., Mfg. Co., Athens, Ohio. Gas-heaters and parts thereof. No. 133,134; July 13; v. 276; p. 402.

Griswold Manufacturing Company, The, Erie, Pa. Food-choppers, combination meat and food cutters, fruit and lard presses, and tobacco-cutters. No. 133,135; July 13; v. 276; p. 402.

Hadden Automatic Sprinkler Company, Los Angeles, Calif. Lawn and garden sprinkling and horticultural irrigation systems, &c. No. 133,136; July 13; v. 276; p. 402.

Hadley, Samuel H., New York, N. Y. Moving-picture film. No. 133,137; July 13; v. 276; p. 402.

Hallgren, Carl E., Rock Island, Ill., and Davenport, Iowa. Moving-picture films. No. 133,138; July 13; v. 276; p. 402.

Hammer-Bray Co., Oakland, Calif. Heating, lighting, and ventilating apparatus. No. 133,139; July 13; v. 276; p. 402.

Haskins, R. G., Company, Chicago, Ill. Electrically-operated grinders for millstones. No. 133,140; July 13; v. 276; p. 402.

Herculean Products Company, Newark, N. J. Complete toilet and manicure sets and component parts thereof. Nos. 133,141–2; July 13; v. 276; p. 402.

Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 133,143; July 13; v. 276; p. 402.

Imperial Belting Company, Chicago, Ill. Belting, hose, machinery packing, &c. No. 133,144; July 13; v. 276; p. 402.

Imperial Belting Company, Chicago, Ill. Belting, hose, machinery packing, and non-metallic tires. No. 133,145; July 13; v. 276; p. 402.

Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Cutlery, machinery, and tools and parts thereof. No. 133,147; July 13; v. 276; p. 402.

Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Rock-drills. No. 133,146; July 13; v. 276; p. 402.

International Coupler Company, Pittsburgh, Pa. Plumbing and steam-fitting supplies. No. 133,148; July 13; v. 276; p. 402.

Jennings Lace Works Corporation, New York, N. Y. Knitted, netted, and textile fabrics. No. 133,149; July 13; v. 276; p. 402.

Johnson Oil Refining Company, Chicago Heights, Ill. Oils and greases. No. 133,150; July 13; v. 276; p. 402.

Jones, W. A., Foundry & Machine Co., Chicago, Ill. Spur-gear reducers, worm-gear speed-reducers, power-transmission machinery. No. 133,151; July 13; v. 276; p. 402.

Kent & Purdy Paint Company, St. Louis, Mo. Paints, pigments, colors ground in Japan and oil, oil stains, &c. No. 133,152; July 13; v. 276; p. 402.

Kenyon, C., Company, Brooklyn, N. Y. Rubber tires and tubes. No. 133,153; July 13; v. 276; p. 402.

Knickerbocker Watch Co., New York, N. Y. Watches. No. 133,154; July 13; v. 276; p. 402.

Lapeyre, Ben E., Great Falls, Mont. Toilet cream. No. 133,155; July 13; v. 276; p. 402.

Leach Patch Company, The, Indianapolis, Ind. Tube-patches. No. 133,156; July 13; v. 276; p. 402.

Lewis, J. L., New York, N. Y. Collodion self-toning printing-out paper. No. 133,157; July 13; v. 276; p. 403.

Lukens, C. Dewitt, Surgical Manufacturing Co., St. Louis, Mo. Dental, medical, and surgical appliances. No. 130,158; July 13; v. 276; p. 403.

Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. Nos. 133,159–60; July 13; v. 276; p. 403.

Lunkenheimer Co., The, Cincinnati, Ohio. Mechanical lubricators. No. 133,161; July 13; v. 276; p. 403.

Mason Tire & Rubber Co., Kent, Ohio. Tires and tubes for automobiles and trucks. No. 133,162; July 13; v. 276; p. 403.

Metals & Thermit Corporation, Chrome, N. J. Tungsten. No. 133,163; July 13; v. 276; p. 403.

Meyer, Geo. J., Manufacturing Co., Milwaukee, Wis. Bottle-washing machines. No. 133,164; July 13; v. 276; p. 403.

Moore, Edward, New York, N. Y. Miniature theaters. No. 113,165; July 13; v. 276; p. 403.

Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Knit gloves. No. 133,166; July 13; v. 276; p. 403.

Mulholland, John H., Philadelphia, Pa. Wooden spoons. No. 133,167; July 13; v. 276; p. 403.

National Brass Company, Grand Rapids, Mich. Hardware supplies. No. 133,168; July 13; v. 276; p. 403.

National Equipment Company, Springfield, Mass. Cutlery, machinery, and tools, and parts thereof. No. 133,169; v. 276; p. 403.

National Geographic Society, Washington, D. C. Printed sheets. No. 133,170; July 13; v. 276; p. 403.

New Britain Machine Company, The, New Britain, Conn. Screw and chucking machines. No. 133,171; July 13; v. 276; p. 403.

Newton, Robert W., Providence, R. I. Automatic sprinklers. No. 133,172; July 13; v. 276; p. 403.

New Toy Co., Inc., New York, N. Y. Dolls. No. 133,173; July 13; v. 276; p. 403.

Noble, Charles, Jr., Company, Buffalo, N. Y. Prepared sea foods. No. 133,174; July 13; v. 276; p. 403.

Phosphor Bronze Smelting Company, The, Philadelphia, Pa. Alloys of copper, tin, zinc, and phosphor-bronze in ingots, castings, and finished forms. No. 133,175; July 13; v. 276; p. 403.

Potter, Louis, New York, N. Y. Clothing. No. 133,176; July 13; v. 276; p. 403.

Richards and Co. Incorporated, Boston, Mass. Pig-tin. No. 133,177; July 13; v. 276; p. 403.

Roe, A. V., & Co., Ltd., Manchester, England. Supplies for aviators. No. 133,178; July 13; v. 276; p. 403.

Schoble, Frank, & Co., Philadelphia, Pa. Men's felt hats. No. 133,179; July 13; v. 276; p. 403.

Seminole Chemical Co., Binghamton, N. Y. Healing-ointment. No. 173,180; July 13; v. 276; p. 403.

Shaver, Elsie, New York, N. Y. Dolls. No. 133,181; July 13; v. 276; p. 403.

Sheffield Works, Inc., assignor to The Aero Works, Incorporated, New York, N. Y. Saws, and machine, tobacco, cane, and corn knives. No. 133,182; July 13; v. 276; p. 403.

Società Anonima Filature e Tessiture Riunite, (now by change of name Società Anonima Manufatture Italiane Riunite del Lino e della Canapa,) Milan, Italy. Hemp cordage. No. 133,183; July 13; v. 276; p. 403.

Società Industrie Chimiche Ittiolo, Naples, Italy. Chemicals, medicines, and pharmaceutical preparations. No. 133,184. July 13; v. 276; p. 403.

Spalding, A. G., & Bros., New York, N. Y. Golf-clubs. No. 133,185; July 13; v. 276; p. 403.

Special Tool Engineering Manufacturing Company, Inc., The, Dayton, Ohio. Special-designed machinery and tools, dies, jigs, and parts thereof. No. 133,186; July 13; v. 276; p. 403.

Sun Company, Philadelphia, Pa. Oils and greases. No. 133,187–8; July 13; v. 276; p. 403.

Suter, Eugene, & Company, New York, N. Y. Chemicals and chemical oils for the manufacture of fertilizer. No. 133,189; July 13; v. 276; p. 404.

Terry, Herbert, & Sons, Ltd., Redditch, England. Fancy goods, furnishings, and notions. No. 133,190; July 13; v. 276; p. 404.

Thomas & Betts Co., The, New York, N. Y. Conduits, conductors, and electrical merchandise. No. 133,191; July 13; v. 276; p. 404.

United American Metals Corporation, New York, N. Y. Babbitt metal. No. 133,192; July 13; v. 276; p. 404.

United States Air Compressor Co., The, Cleveland, Ohio. Unitary air-compressor equipments and parts thereof. No. 133,193; July 13; v. 276; p. 404.

United Theatre Equipment Corporation, Wilmington, Del., and New York, N. Y. Motion-picture apparatus and accessories. No. 133,194; July 13; v. 276; p. 404.

Walworth Manufacturing Company, Boston, Mass. Hardware and plumbing and steam-fitting supplies. No. 133,195; July 13; v. 276; p. 404.

Walworth Manufacturing Company, Boston, Mass. Pipe-wrenches. No. 133,196; July 13; v. 276; p. 404.

Williams, Mortimer, Petersburg, Va. Candy-bars. No. 133,197; July 13; v. 276; p. 404.

Woods, S. A., Machine Co., Boston, Mass. Woodworking-machines and parts thereof. No. 133,198; July 13; v. 276; p. 404.

Worman, Oscar E., Minneapolis, Minn. Artificial limbs. No. 133,199; July 13; v. 276; p. 404.

Young & Wile, Ltd., New York, N. Y. Corn and maltose syrups for flavoring foodstuffs. No. 133,200; July 13; v. 276; p. 404.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Abbott Laboratories, The, Chicago, Ill. Anesthetics. No. 128,639; July 13; v. 276; p. 386.

Abbott Laboratories, The, Chicago, Ill. Effervescent salts. No. 128,640; July 13; v. 276; p. 386.

Aluminum Brazing Solder Company, Philadelphia, Pa. Metallic fillers. No. 132,420; July 13; v. 276; p. 398.

Ambler Toy Manufacturing Company, Incorporated, Ambler, Pa. Card games, game-boards, toy vehicles, &c. No. 128,641; July 13; v. 276; p. 386.

American Tap and Die Co., Greenfield, Mass. Butchers', grocers', fish, &c., knives. No. 130,311; July 13; v. 276; p. 390.

American Metals Corporation, Indianapolis, Ind. Automobile-radiator shutters. No. 131,766; July 13; v. 276; p. 395.

American Mutual Seed Co., Chicago, Ill. Dairy and stock feed. No. 116,733; July 13; v. 276; p. 379.

American Tractor & Foundry Company, Charles City, Iowa. Tractors, gas, and kerosene internal-combustion engines. No. 128,816; July 13; v. 276; p. 387.

Amick, Mary H., Chicago, Ill. Trimmings and garnitures for ladies', infants', and children's wearing-apparel. No. 128,949; July 13; v. 276; p. 387.

Andersen Lumber Company, Hudson, Wis., and South Stillwater, Minn. Wooden window and door frames. No. 131,458; July 13; v. 276; p. 394.

Armstrong Cork Company, Pittsburgh and Lancaster, Pa. Artificial leather. No. 130,081; July 13; v. 276; p. 388.

Arrow Grip Manufacturing Co., Inc., Glens Falls, N. Y. Lifting-jacks. No. 130,638; July 13; v. 276; p. 391.

Arrow Toy Mfg. Co., The, Philadelphia, Pa. Velocipedes, Children's. No. 128,950; July 13; v. 276; p. 387.

Astlett, Harry A., New York, N. Y. Metal clasps or fasteners. No. 132,286; July 13; v. 276; p. 397.

Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 132,159; July 13; v. 276; p. 396.

Beacon Feed Company, The, New York, N. Y. Dairy rations, horse feed, scratch-grains. No. 119,626; July 13; v. 276; p. 381.

Beaver Company, The, Buffalo, N. Y. Wall-board and building-paper. No. 132,004; July 13; v. 276; p. 396.

Bencoe Lumber Company, Inc., New York, N. Y. Dressed lumber and staves. No. 126,095; July 13; v. 276; p. 383.

Berney-Bond Glass Company, Clarion, Pa. Glass bottles. No. 131,140; July 13; v. 276; p. 392.

Bernstein, Samuel, New York, N. Y. Washing compound. No. 130,355; July 13; v. 276; p. 390.

Bisceglia Brothers, San Jose, Calif. Canned fruits and vegetables. No. 132,504; July 13; v. 276; p. 398.

Blumauer-Frank Drug Company, Portland, Oreg. Shaving-cream, shampoo-soap, and antiseptic soap. No. 130,361; July 13; v. 276; p. 390.

Branford Electric Company, New York, N. Y. Cupronickel alloys. No. 118,461; July 13; v. 276; p. 380.

Branford Electric Company, New York, N. Y. Ferronickel alloys. No. 118,462; July 13; v. 276; p. 380.

Broder, Harry, New York, N. Y. Ribbon novelties. No. 128,540; July 13; v. 276; p. 386.

Bugler & Goebel Company, Chicago, Ill. An edible composition for use as an ingredient of candies. No. 131,502; July 13; v. 276; p. 394.

Bursley, G. E., & Company, Fort Wayne, Ind. Coffee. No. 132,910; July 13; v. 276; p. 400.

Campbell Products Corporation, Oklahoma, Okla. Flavoring extracts, egg substitute, and pie-fillers. No. 132,465; July 13; v. 276; p. 398.

Campbell, V. V., Oklahoma, Okla. Flavoring extracts for foods and dessert preparations. No. 132,168; July 13; v. 276; p. 396.

Celluloid Company, The, New York, N. Y. Dressing, pocket, hair, &c., combs, barrettes, beads, &c. No. 100,072; July 13; v. 276; p. 377.

Celluloid Company, The, New York, N. Y. Dressing, pocket, hair, &c., combs, barrettes, beads, &c. No. 100,006; July 13; v. 276; p. 377.

Celluloid Company, The, New York, N. Y. Dressing, pocket, hair, &c., combs, barrettes, beads, &c. Nos. 110,680–1; July 13; v. 276; p. 378.

Chelsea Engineering Sales Corporation, New York, N. Y. Bells, bolts, brads, chains, &c. No. 130,206; July 13; v. 276; p. 389.

Chelsea Engineering Sales Corporation, New York, N. Y. Countersinks, dies, gimlets, knives, &c. No. 130,209; July 13; v. 276; p. 389.

Clark, James A., New York, N. Y. Soap. No. 132,629; July 13; v. 276; p. 399.

Collins, B. A., & Co., Inc., Springfield, Mass. Infants' and children's dresses and rompers. No. 127,040; July 13; v. 276; p. 384.

Condrell, Paul K., Kenmore, N. Y. Fruit-juice candy tablets. No. 130,319; July 13; v. 276; p. 390.

Continental Supply Company, The, St. Louis, Mo. Sheet-packing composed of rubber and fibrous materials. No. 126,015; July 13; v. 276; p. 383.

Continuous Reaction Company, Ltd., The, Battersea, London, England. Ferrotungsten alloy. No. 118,957; July 13; v. 276; p. 380.

Dean & Williams Co., Chicago, Ill. Combination garment-hanger. No. 132,138; July 13; v. 276; p. 396.

De Luxe Thread Corp., New York, N. Y. Sewing-cotton. No. 131,259; July 13; v. 276; p. 393.

Diehnelt, Walter, Milwaukee, Wis. Pure food products. No. 113,279; July 13; v. 276; p. 378.

Dodd, Dorothy Shoe Company, Boston, Mass. Shoe-laces and button-hooks. No. 132,596; July 13; v. 276; p. 399.

Dunlop Rubber Company Limited, London, England. Tires made of India rubber. No. 130,092; July 13; v. 276; p. 380.

Duro Company, The, East Orange, N. J. Spark-plug and contact-point cleaner. No. 130,130; July 13; v. 276; p. 389.

Elite Hosiery Company, Inc., Philadelphia, Pa. Hosiery. No. 124,887; July 13; v. 276; p. 382.

Federal Condensed Milk Company, Seattle, Wash. Evaporated milk. No. 132,349; July 13; v. 276; p. 397.

Freeport Condensed Milk Co., Chicago, Ill. Evaporated milk. No. 131,789; July 13; v. 276; p. 395.

Firth Company Limited, The, Warrington, England. Wire rope. No. 116,130; July 13; v. 276; p. 378.

Fults, La Fayette, Jr., E. Lloyd McKenzie, and F. W. Korsmeyer, Colorado Springs, Colo. Food-drink. No. 117,487; July 13; v. 276; p. 379.

General Woodwork Co., Inc., The, Cincinnati, Ohio. Closed cabs for motor-vehicles. No. 132,092; July 13; v. 276; p. 396.

George, P. D., Company, St. Louis, Mo. Varnish. No. 131,038; July 13; v. 276; p. 392.

Gilinsky, S. E., Omaha, Nebr. Fresh apples. Nos. 126,797–8; July 13; v. 276; p. 383.

Gill Brothers Company, Steubenville, Ohio. Glass baking and cooking utensils, glass tubing, &c. No. 127,506; July 13; v. 276; p. 384.

Gillett, William T., Tillamook, Oreg. Soap. No. 133,209; July 13; v. 276; p. 400.

Ginsberg, Benjamin S., New York, N. Y. Women's dresses. No. 129,496; July 13; v. 276; p. 388.

Golden Pheasant, San Francisco, Calif. Candy. No. 132,528; July 13; v. 276; p. 398.

Goodrich, B. F., Company, The, New York, N. Y. Belting and diaphragms for paper-mill vats. No. 128,496; July 13; v. 276; p. 385.

Grand Union Tea Co., Brooklyn, N. Y. Laundry and toilet soaps, soap flakes, &c. No. 124,894; July 13; v. 276; p. 382.

Graves Canning Co. Inc., Sheridan, Oreg. Canned fruits. No. 129,714; July 13; v. 276; p. 388.

Griffith-Durney Co., San Francisco, Calif. Canned fruits, vegetables, and milk. No. 132,819; July 13; v. 276; p. 399.

Gutta Percha & Rubber Manufacturing Company, The, New York, N. Y. Fabric hose, rubber hose, and sheet-packing. No. 127,966; July 13; v. 276; p. 385.

Halligan Candy Company, Davenport, Iowa. Chocolate-bar candy. No. 132,357; July 13; v. 276; p. 397.

Hansen Packing Company, Butte, Mont. Ham and bacon. No. 129,843; July 13; v. 276; p. 388.

Harley Soap Company, Philadelphia, Pa. Automobile-soap. No. 132,604; July 13; v. 276; p. 399.

Harps, James A., Greenfield, Ohio. Suspenders. No. 133,217; July 13; v. 276; p. 400.

Haskins Bros. & Company, Sioux City, Iowa, and Omaha, Nebr. Toilet-soap. No. 132,929; July 13; v. 276; p. 400.

Heaton-Peninsular Button Fastener Co., Boston, Mass. Three-pronged-button fasteners. No. 132,863; July 13; v. 276; p. 399.

Hercules Foundries Inc., Huntington Park, Calif. Cast-iron pipe-fittings. Nos. 131,169–71; July 13; v. 276; p. 393.

Herschell-Spillman Motor Company, North Tonawanda, N. Y. Gasolene-motors. No. 131,865; July 13; v. 276; p. 395.

Hirsch-Malgood Co., Inc., New York, N. Y. Combined glass spoons and sippers. No. 131,424; July 13; v. 276; p. 394.

Holt Manufacturing Company, The, Stockton, Calif. Freighting outfits. No. 105,358; July 13; v. 276; p. 377.

Holt Manufacturing Company, Stockton, Calif. Wagons, trailers, radiators for use on motor-vehicles. No. 130,367; July 13; v. 276; p. 390.

Hooper Sons' Manufacturing Company, Philadelphia, Pa. Dish, scrub, and sponge cloths, cotton, duck, &c. No. 132,864; July 13; v. 276; p. 400.

Hopkins, J. L., & Co., New York, N. Y. Synthetic Venice turpentine. No. 129,012; July 13; v. 276; p. 387.

Hoyt, Vance J., Los Angeles, Calif. Baby food. No. 131,480; July 13; v. 276; p. 394.

Huron Portland Cement Company, Detroit, Mich. Portland cement. No. 130,220; July 13; v. 276; p. 389.

International Consolidated Chemical Corp., New York, N. Y. Aspirin. No. 129,211; July 13; v. 276; p. 387.

Interstate Employment System, Denver, Colo. Monthly periodical. No. 114,882; July 13; v. 276; p. 378.

Johnson, Ruth B., Beach Bluff, Mass. Candy and confectionery. No. 131,175; July 13; v. 276; p. 393.

Karp, Joseph H., New York, N. Y. Cake, bar, paste, liquid, and powder soaps. No. 133,422; July 13; v. 276; p. 400.

Killen, Edward B., London, England. Rubber tires for motor-cars and other vehicles. No. 113,809; July 13; v. 276; p. 378.

Kingan & Company, Limited, Belfast, Ireland, and Indianapolis, Ind. Pork and beans. No. 128,810; July 13; v. 276; p. 385.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress-shields and garters. No. 131,337; July 13; v. 276; p. 393.

Kleinert, I. B., Rubber Company, New York, N. Y. Sanitary rubber sheets, sanitary aprons, belts, &c. No. 127,724; July 13; v. 276; p. 385.

Kleinert, I. B., Rubber Company, New York, N. Y. Sanitary rubber sheets, sanitary aprons, belts, &c. No. 127,726; July 13; v. 276; p. 385.

Knapp, Harry A., Brooklyn, N. Y. Soap. No. 131,706; July 13; v. 276; p. 395.

Knight, Harriet W., New York, N. Y. Concealing device for telephones. No. 130,600; July 13; v. 276; p. 391.

Lichtenstein & Company, Limited, Uxbridge, England. Caramel, burnt, brewing, and colored sugars. No. 126,689; July 13; v. 276; p. 383.

Linton, Robert H., New York, N. Y. Cotton and woolen piece goods. No. 130,969; July 13; v. 276; p. 392.

Listerated Gum Corporation, New York, N. Y. Chewing-gum and candy. No. 130,481; July 13; v. 276; p. 390.

Lucile Somarco Brassière Co., New York, N. Y. Brassières. No. 125,514; July 13; v. 276; p. 382.

Lux Manufacturing Co., New York, N. Y., and Newark, N. J. Electric lamps. No. 132,183; July 13; v. 276; p. 396.

Manufacturers Purchasing Corporation, New York, N. Y. Powdered buttermilk. No. 125,006; July 13; v. 276; p. 382.

Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Hard panned candy. No. 132,259; July 13; v. 726; p. 397.

Masterbilt Homes, Inc., Memphis, Tenn. Sectional or knockdown buildings. No. 129,240; July 13; v. 276; p. 387.

Masury, John W., & Son, New York, N. Y. Spirit-varnish. No. 129,941; July 13; v. 276; p. 388.

Mazer, Jacob, Pittsburgh, Pa. Acoustic appliances for altering the acoustic properties of auditoriums. No. 96,675; July 13; v. 276; p. 377.

McVey, Vaughn M., Lincoln, Nebr. Liquid preparations for cleaning and polishing enameled surfaces. No. 131,841; July 13; v. 276; p. 395.

Meek Oven Manufacturing Company, Inc., New York, N. Y. Ovens for baking bread. No. 130,727; July 13; v. 276; p. 391.

Milwaukee Steel Foundry Company, Milwaukee, Wis. Metal castings and alloys of steel and iron. Nos. 131,532–3; July 13; v. 276; p. 394.

Mint Products Co., Inc., New York, N. Y. Candy. No. 132,477; July 13; v. 276; p. 398.

Murphy, Emmett L., Chicago, Ill. Belt-dressings. No. 128,399; July 13; v. 276; p. 385.

Myers, Darling & Hinton Co., Los Angeles, Calif. Fresh fruits. No. 132,805; July 13; v. 276; p. 399.

National Carbon Company, Inc., New York, N. Y. Electric meters. No. 132,753; July 13; v. 276; p. 399.

National Picture Theatres Inc., New York, N. Y. Motion-picture films. No. 131,447; July 13; v. 276; p. 394.

National Pressed Steel Company, Massillon, Ohio. Steel in the form of hot-rolled stripe and light plates. No. 130,768; July 13; v. 276; p. 391.

National Sanitary Street System, Inc., Philadelphia, Pa. Trash-receptacles. No. 129,643; July 13; v. 276; p. 388.

National Supply Company, The, Toledo, Ohio. Well-drilling rigs and pumping-jacks and parts thereof, &c. No. 118,058; July 13; v. 276; p. 380.

Nilson-Miller Company, Hoboken, N. J. Piston-rings. No. 127,737; July 13; v. 276; p. 385.

Nootka Packing Company Limited, Everett, Wash. Fish—viz., pilchards, canned. No. 123,075; July 13; v. 276; p. 381.

Northwest Trading Company, Ltd., Seattle, Wash. Canned salmon. No. 123,134; July 13; v. 276; p. 381.

Norwood Canning and Manufacturing Co., Norwood, La. Canned fruit and vegetables. No. 132,193; July 13; v. 276; p. 397.

Ohio Rubber Co., Cincinnati, Ohio. Inner tubes. No. 130,286; July 13; v. 276; p. 390.

Ormerod, John, & Sons Ltd., Castleton, England. Roller-skins for use in textile machinery. No. 127,260; July 13; v. 276; p. 384.

Oshkosh Motor Truck Mfg. Co., Oshkosh, Wis. Motor-vehicles, automobiles, and motor-trucks. No. 130,550; July 13; v. 276; p. 391.

Packwood, Lewis S., Los Angeles, Calif. Machinery-patterns. No. 131,232; July 13; v. 276; p. 393.

Palmer Candy Co., Sioux City, Iowa. Candy. No. 132,861; July 13; v. 276; p. 397.

Pan American Coffee Co., Detroit, Mich. Coffee. No. 132,144; July 13; v. 276; p. 396.

Patrick, F. A., & Co., Duluth, Minn. Cretonnes and silkolines, both in the piece. No. 130,924; July 13; v. 276; p. 392.

Patrick, F. A., & Co., Duluth, Minn. Tailors' garment-pressing machines. No. 130,927; July 13; v. 276; p. 392

Patrick-Young Company, Richmond, Va. Lard, ham, and bacon. No. 132,059; July 13; v. 276; p. 396.

Peltason, Max C., Chicago, Ill. Powdered milk. No. 131,353; July 13; v. 276; p. 394.

Petroleum Engine & Manufacturing Co., Inc., New York, N. Y. Stationary, marine, truck, and tractor engines, pumps, &c. No. 127,486; July 13; v. 276; p. 384.

Phenix Cheese Company, New York, N. Y. Cheese. No. 133,064; July 13; v. 276; p. 400.

Piccoli, Nick, Paterson, N. J. Shoe-polish and hat-cleaning material. No. 128,518; July 13; v. 276; p. 386.

Pierre Namron Company, Inc., New York, N. Y. Face-powders, perfumes, rouges, &c. No. 129,151; July 13; v. 276; p. 387.

Ponto, Theodore R., Spokane, Wash. Laundry-tablets and powdered cleanser. No. 116,161; July 13; v. 276; p. 378.

Portland Products Company, South Portland, Me. Sardines. Nos. 132,550–1; July 13; v. 276; p. 398.

Private Estate Coffee Company, New York, N. Y. Cocoa. No. 132,362; July 13; v. 276; p. 397.

Private Estate Coffee Company, New York, N. Y. Coffee, tea, olive-oil, spice, and cocoa. No. 132,363; July 13; v. 276; p. 398.

Price Specialty Company, Indianapolis, Ind. Food products. No. 118,970; July 13; v. 276; p. 381.

Projection Optics Co. Inc., Rochester, N. Y. Projection-lenses. No. 129,568; July 13; v. 276; p. 388.

Queen Anne Candy Co. inc., Seattle, Wash. Candies. No. 115,738; July 13; v. 276; p. 378.

Racine Rubber Company, Racine, Wis. Rubber or rubber and fabric tires and tubes for vehicles. No. 130,404; July 13; v. 276; p. 390.

Ransom & Randolph Company, The, Toledo, Ohio. Dental appliances. No. 116,974; July 13; v. 276; p. 379.

Red Wing Company, Inc., The, Fredonia, N. Y. Apple-butter. No. 132,813; July 13; v. 276; p. 399.

Redel Candy Corporation, The, Milwaukee, Wis. Candy and chocolate. No. 116,211; July 13; v. 276; p. 379.

Reichman & Faust, New York, N. Y. Hair-nets. No. 123,574; July 13; v. 276; p. 381.

Robinson, Joseph, Washington, D. C. Steam and air pipe couplings and railway-cars. No. 116,301; July 13; v. 276; p. 379.

Rosen, Paul, Orange, N. J. Candy. No. 131,594; July 13; v. 276; p. 395.

Samoset Chocolates Company, Boston, Mass. Candy. No. 132,452; July 13; v. 276; p. 398.

Sanford Mills, Sanford, Me. Pile fabrics of mohair. No. 128,050; July 13; v. 276; p. 385.

Saylor & Co., Reading, Pa. Shoe-laces. No. 133,500; July 13; v. 276; p. 400.

Schuster Bros., inc., El Paso, Tex. Soap. No. 118,123; July 13; v. 276; p. 380.

Scourby, Constantine, New York, N. Y. Chocolates, bonbons, and candies. No. 132,491; July 13; v. 276; p. 398.

Seaboard Commercial Co., Seattle, Wash. Canned salmon. No. 132,826; July 13; v. 276; p. 399.

Sehon, Stevenson and Company, Huntington, W. Va. Coffee. No. 118,800; July 13; v. 276; p. 380.

Shugers Mfg. Co., Los Angeles, Calif. Automobile tops and curtains and top and curtain windows. No. 131,923; July 13; v. 276; p. 395.

Silverberg, William, Chicago, Ill. Tax-registers. No. 118,022; July 13; v. 276; p. 380.

Sionim Brothers, Duluth, Minn. Armbands, garters, and suspenders. No. 124,695; July 13; v. 276; p. 382.

Spencer Lens Company, Buffalo, N. Y. Optical and scientific appliances. No. 126,825; July 13; v. 276; p. 384.

Spencer Lens Company, Buffalo, N. Y. Optical and scientific appliances. No. 126,972; July 13; v. 276; p. 394.

Spiro, Max, & Co., New York, N. Y. Men's coats, trousers, vests, &c. No. 125,582; July 13; v. 276; p. 383.

Standex Manufacturing Corporation, Chicago, Ill. Lubricating systems. No. 117,070; July 13; v. 276; p. 379.

Stowell Manufacturing Co., Jersey City, N. J. Non-metallic fireproof sheet roofing materials and roofing-shingles. No. 131,093; July 13; v. 276; p. 392.

Stratford, George, Oakum Co., Jersey City, N. J. Oakum. No. 106,733; July 13; v. 276; p. 377.

Summerill Tubing Company, Bridgeport, Pa. Base-metal tubing. No. 132,150; July 13; v. 276; p. 396.

Superior Sheet Steel Company, The, Canton, Ohio. Rolled steel. No. 125,911; July 13; v. 276; p. 383.

Technical Food Products Company, Inc., Los Angeles, Calif. Leavening material or compound composed of baking-powder and eggs. No. 114,840; July 13; v. 276; p. 378.

Thomsen, G. C., & Adams, A. A., Waco, Tex. Polish for incidentally dyeing leather. No. 130,701; July 13; v. 276; p. 391.

Tibbitts-Hewitt Grocery Co., St. Louis, Mo. Canned fruits, vegetables, and fish. No. 132,575; July 13; v. 276; p. 399.

Tioga Manufacturing Company, Philadelphia, Pa. Farm-tractors. No. 130,778; July 13; v. 276; p. 391.

Treachis, Constantine, New Bedford, Mass. Pickles, mustard, salad-dressing. No. 116,801; July 13; v. 276; p. 378.

Tripod Paint Co., The, Atlanta, Ga. Cold-water white. No. 129,354; July 13; v. 276; p. 387.

Tripod Paint Co., The, Atlanta, Ga. Mill-white. No. 129,358; July 13; v. 276; p. 387.

Tripod Paint Co., The, Atlanta, Ga. White lead and ready-mixed paints. No. 129,357; July 13; v. 276; p. 387.

Trippe, Barker & Co., New York, N. Y. Organdie piece goods; No. 131,134; July 13; v. 276; p. 392.

Tyler Chemical Company, Pawtucket, R. I. Preparation for cleansing purposes for textile fabrics, kid shoes, gloves, &c. No. 131,927; July 13; v. 276; p. 395.

Tyson & Co., Paris, Tenn. Soap. No. 132,712; July 13; v. 276; p. 399.

Union Metal Manufacturing Company, The, Canton, Ohio. Metal columns for building purposes. No. 131,238; July 13; v. 276; p. 393.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Nails and tacks. No. 130,247; July 13; v. 276; p. 389.

Vincent, Howard, Philadelphia, Pa. Piano and furniture polish. No. 130,779; July 13; v. 276; p. 392.

Vos, Calvin, New York, N. Y. Metal alloys and steel and iron castings and forgings. No. 131,094; July 13; v. 276; p. 392.

Waldes & Co., Prague, Bohemia. Needles, hair and hat pins, buttons, &c. No. 121,077; July 13; v. 276; p. 381.

Waldes & Co., Prague, Bohemia. Placket and glove fasteners, needles, buckles, &c. No. 121,081; July 13; v. 276; p. 381.

Walker, James, & Co. Ltd., London, England. Packings and jointings for steam, air, and other joints. No. 123,677; July 13; v. 276; p. 382.

Walker, James, & Co. Ltd., London, England. Sheet-packing for steam, air, hydraulic, or other joints. No. 123,675; July 13; v. 276; p. 382.

Walker, James, & Co. Ltd., London, England. Steam and hydraulic packing. No. 123,676; July 13; v. 276; p. 382.

Waterproof Garment Co., Portland, Oreg. Hats, coats, trousers, &c. No. 125,141; July 13; v. 276; p. 382.

Waterproof Oil Products Co., Seattle, Wash. Leather-shoe dressing. No. 117,077; July 13; v. 276; p. 379.

Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, and conserves. No. 132,280; July 13; v. 276; p. 397.

Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, and conserves. No. 132,333; July 13; v. 276; p. 397.

Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, &c. No. 132,618; July 13; v. 276; p. 399.

Weinstein, David B., Chicago, Ill. Candy tablets. No. 130,111; July 13; v. 276; p. 389.

Wells Manufacturing Company, The, Youngstown, Ohio. Cleaning and cleansing compounds. No. 125,640; July 13; v. 276; p. 383.

West Coast Pickling & Canning Co., Los Angeles, Calif. Canned fruits, vegetables, and sauer-kraut. No. 130,075; July 13; v. 276; p. 388.

Wexler, Jacob, St. Louis, Mo. Furniture and automobile polish or gloss for any woodwork. No. 130,457; July 13; v. 276; p. 390.

Wicks & Co. Inc., Houston, Tex. Candies. No. 132,904; July 13; v. 276; p. 400.

Williams Foundry & Machine Co., The, Akron, Ohio. Vulcanizing outfits for rubber tires. No. 122,743; July 13; v. 276; p. 381.

Winthrop Orchards, Inc., The, Philadelphia, Pa. Boxed apples. No. 127,679; July 13; v. 276; p. 384.

Wolter Bros., Peoria, Ill. Potatoes. No. 130,633; July 13; v. 276; p. 391.

Yardley Chemical Corporation, The, New York, N. Y. Germicide, disinfectant, deodorant, &c. No. 128,634; July 13; v. 276; p. 386.

Yardley Chemical Corporation, The, New York, N. Y. Medicinal remedy for sore throat, cuts, &c. No. 128,635; July 13; v. 276; p. 386.

Yardley Chemical Corporation, The, New York, N. Y. Remedy for treatment of pyorrhea, infected teeth, &c. No. 128,636; July 13; v. 276; p. 386.

Z. & S. Middy Co., New York, N. Y. Middy-blouses. No. 125,333; July 13; v. 276; p. 382.

Zayotti, A. Harold, Philadelphia, Pa. Worsted waste and noils. No. 132,218; July 13; v. 276; p. 397.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF JULY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Absorbing and purifying composition. J. C. Tate. No. 1,346,349; July 13; v. 276; p. 264.
Advertising device. F. Vogelzang. No. 1,346,775; July 13; v. 276; p. 348.
Advertising or amusement device. C. H. Leggett. No. 1,346,219; July 13; v. 276; p. 237.
Advertising specialty. C. Kolin. No. 1,346,658; July 13; v. 276; p. 324.
Aeroplane. A. Alberico. No. 1,346,107; July 13; v. 276; p. 216.
Aeroplane-drive. H. F. McNutt. No. 1,346,327; July 13; v. 276; p. 260.
Aeroplane safety device. L. Kovacs. No. 1,346,214; July 13; v. 276; p. 236.
Agricultural-implement blade. E. A. Schmutte. No. 1,346,261; July 13; v. 276; p. 246.
Air-diffusion machine. V. Slater. No. 1,346,471; July 13; v. 276; p. 287.
Airplane. A. R. Smith. No. 1,346,472; July 13; v. 276; p. 288.
Airplane. H. P. Van Keuren. No. 1,346,570; July 13; v. 276; p. 307.
Alarm: *See*—
Lock and burglar-alarm.
Alkali metal minerals, Decomposition of. E. Bergve. No. 1,346,365; July 13; v. 276; p. 266.
Alloy of iron, chromium, and titanium, and the production thereof. H. C. Sicard. No. 1,346,343; July 13; v. 276; p. 263.
Alloys, Producing chromium-containing. F. A. Fahrenwald. No. 1,346,187; July 13; v. 276; p. 231.
Ammonium salts, Purification of. V. Bredlik. No. 1,346,106; July 13; v. 276; p. 216.
Ammunition-hoisting apparatus. A. T. Dawson and J. Horne. No. 1,346,302; July 13; v. 276; p. 254.
Amusement device. P. J. Coburn. No. 1,346,634; July 13; v. 276; p. 320.
Amusement device. J. C. Welch. No. 1,346,576; July 13; v. 276; p. 308.
Angle-indicator, Automatic. J. R. Lackland. No. 1,346,547; July 13; v. 276; p. 303.
Arch-support. S. Darling. No. 1,346,444; July 13; v. 276; p. 282.
Armband. A. L. Herrmann. No. 1,346,374; July 13; v. 276; p. 268.
Armchair and bed, Combined. E. Jantsch. No. 1,346,206; July 13; v. 276; p. 234.
Arrow. I. L. Davis. No. 1,346,639; July 13; v. 276; p. 321.
Asbestos, Bleaching. C. L. Hill. No. 1,346,316; July 13; v. 276; p. 257.
Assorting and distributing machine, Product. F. H. Ballou. No. 1,346,438; July 13; v. 276; p. 281.
Astronomical instrument. E. Meitner. No. 1,346,412; July 13; v. 276; p. 275.
Automatic brake. V. Barningham and S. G. Ashby. No. 1,346,628; July 13; v. 276; p. 318.
Automatic regulator. H. R. Davies. No. 1,346,181; July 13; v. 276; p. 230.
Automatically-operated support. S. E. Sudbury. No. 1,346,773; July 13; v. 276; p. 347.
Automobile attachment, Life-saver. M. Doujak. No. 1,346,486; July 13; v. 276; p. 290.
Automobile-bumper. L. Baumgartl. No. 1,346,478; July 13; v. 276; p. 289.
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Wheel-defect and coupling-limit gage. A. McCormick. No. 1,346,224; July 13; v. 276; p. 238.
Wheel or pulley. R. H. Rogers. No. 1,346,511; July 13; v. 276; p. 295.
Wheel-rim. C. F. Christopher. No. 1,346,178; July 13; v. 276; p. 229.
Wheel rim, Vehicle-. J. C. Theberath. No. 1,346,569; July 13; v. 276; p. 307.
Wheel tread, Automobile-. J. Serediuk. No. 1,346,262; July 13; v. 276; p. 246.
Wheels, Rim for pneumatic-tired. G. Rubino. No. 1,346,468; July 13; v. 276; p. 287.
Winding-machine. J. F. Comstock. No. 1,346,635; July 13; v. 276; p. 320.
Window-blind rollers, curtains, valences, and the like, Support for. H. Umphrey. No. 1,346,354; July 13; v. 276; p. 264.
Window-cleaning device. A. Sundh. No. 1,346,348; July 13; v. 276; p. 263.
Window-frame, Revolving. A. P. McClair. No. 1,346,663; July 13; v. 276; p. 325.
Windshield attachment. G. Glaudel. No. 1,346,402; July 13; v. 276; p. 273.
Windshield screen. F. McMahon and R. A. Houston. No. 1,346,664; July 13; v. 276; p. 325.
Wireless or other telegraph mechanism, String message-holder for. M. M. Wood. No. 1,346,476; July 13; v. 276; p. 288.
Wires, Arrangement and connector for the jointing of electrical. J. S. Möllerhoj. No. 1,346,506; July 13; v. 276; p. 294.
Wood and bending same, Bent ply-. O. H. Basquin. No. 1,346,161; July 13; v. 276; p. 226.
Wood, Fireproofing. H. F. Weiss. No. 1,346,287; July 13; v. 276; p. 251.
Work-holding device. A. O. Mathison. No. 1,346,504; July 13; v. 276; p. 294.
Wrench: *See*—
Socket-wrench.
Wrench. R. Les. No. 1,346,716; July 13; v. 276; p. 336.
Yoke, Cattle-. J. Switzyk. No. 1,346,278; July 13; v. 276; p. 250.

ALPHABETICAL LIST OF DESIGNS.

Air and water dispenser casing, Combined. A. A. Ewald. No. 55,762; July 13; v. 276; p. 361.
Aquarium-stand. F. S. Crowell. Nos. 55,751–4; July 13; v. 276; p. 359.
Article-holder, Individual. P. F. Denning. No. 55,756; July 13; v. 276; p. 360.
Auto signal-light. J. P. Becker. No. 55,739; July 13; v. 276; p. 356.
Automobile-body. F. Richard. No. 55,816; July 13; v. 276; p. 371.
Automobile signal-light. C. A. Vories. No. 55,833; July 13; v. 276; p. 374.
Automobile-tool. P. L. Hudgins. No. 55,792; July 13; v. 276; p. 367.
Badge. J. Archer. No. 55,736; July 13; v. 276; p. 356.
Bracelet, Novelty picture-. J. B. Griffin. No. 55,788; July 13; v. 276; p. 366.
Bulletin-board. H. J. Mahin. No. 55,805; July 13; v. 276; p. 369.
Button and tie-slide or similar article, Combined collar-. H. Esch, Jr. No. 55,761; July 13; v. 276; p. 361.
Cart. M. J. Carls and H. F. Prucha. No. 55,743; July 13; v. 276; p. 357.
China, glass, or like articles, Surface decoration for. A. Martin. No. 55,807; July 13; v. 276; p. 369.
Clamping-dog. C. R. Townsend. Nos. 55,830–1; July 13; v. 276; p. 373–4.
Crumb set. T. B. Easby. Nos. 55,757–8; July 13; v. 276; p. 360.
Cycle, Kiddie-. A. P. Spiringer. No. 55,825; July 13; v. 276; p. 372.
Display-rack. F. W. Gibson. No. 55,778; July 13; v. 276; p. 364.

Doll. E. Malavarca. No. 55,806; July 13; v. 276; p. 369.
Emblem, banner, or armband. E. A. Klapp. No. 55,798; July 13; v. 276; p. 368.
Emblem, pin, button, watch-charm, medal, or similar article. E. C. Heathcote. No. 55,790; July 13; v. 276; p. 366.
Emblem pin or button, Hero-. E. A. Klapp. No. 55,799; July 13; v. 276; p. 368.
Filter, Light-. B. Irwin. No. 55,793; July 13; v. 276; p. 367.
Flag. J. C. Young. No. 55,836; July 13; v. 276; p. 375.
Flatiron, Internally-heated. H. G. Heckmann. No. 55,791; July 13; v. 276; p. 366.
Fountain bowl, Drinking-. H. W. Taylor. No. 55,828; July 13; v. 276; p. 373.
Garter. J. A. Stih. No. 55,826; July 13; v. 276; p. 373.
Glass, Light cover. H. P. Gage and E. Pascucci. No. 55,777; July 13; v. 276; p. 364.
Glassware article. P. Ebeling. No. 55,759; July 13; v. 276; p. 360.
Hairpin. A. D. E. Sessions. No. 55,821; July 13; v. 276; p. 372.
Hat. A. J. Ziv. No. 55,837; July 13; v. 276; p. 375.
Hatpin and point-protector, Combined. T. Delikat. No. 55,755; July 13; v. 276; p. 359.
Heater, Electric. W. W. Hale. No. 55,789; July 13; v. 276; p. 366.
Lamp. C. L. Tippett. No. 55,829; July 13; v. 276; p. 373.
Lamp, Portable. J. T. Robb. No. 55,818; July 13; v. 276; p. 371.
Lamp-stand. H. C. Atherly. No. 55,737; July 13; v. 276; p. 356.
Lighting-globe. E. B. Gillinder. Nos. 55,779–80; July 13; v. 276; p. 364.
Mixing-machine beater. B. D. Pinkney. No. 55,815; July 13; v. 276; p. 371.
Pin, emblem, or article of similar nature. A. M. French. No. 55,769; July 13; v. 276; p. 362.
Plate or similar article. E. E. Tatler. No. 55,827; July 13; v. 276; p. 373.
Punch-board. L. Reisfeld. No. 55,817; July 13; v. 276; p. 371.
Raincoat. B. Greenberg. No. 55,787; July 13; v. 276; p. 366.
Range. E. P. Cole. Nos. 55,744–5; July 13; v. 276; p. 357.
Range-body. E. P. Cole. No. 55,746; July 13; v. 276; p. 358.
Range, Warming-oven for a. E. P. Cole. No. 55,747; July 13; v. 276; p. 358.
Rug. A. H. Waldo. No. 55,834; July 13; v. 276; p. 374.
Scale. W. S. Smith. No. 55,824; July 13; v. 276; p. 372.
Scale-tower. W. S. Smith. No. 55,823; July 13; v. 276; p. 372.
Shoe. M. F. Pasquarelli. No. 55,814; July 13; v. 276; p. 371.
Sifter-top can or similar receptacle. M. H. Connor. Nos. 55,749–50; July 13; v. 276; p. 358.
Snap-hook. H. J. Roebuck. No. 55,819; July 13; v. 276; p. 371.
Speedometer face-plate. J. Berge. Nos. 55,740–1; July 13; v. 276; p. 357.
Statuette. I. A. Withers. No. 55,835; July 13; v. 276; p. 374.
Statuette or similar article. C. E. Johnston. No. 55,795; July 13; v. 276; p. 367.
Stove-door or similar article. E. P. Cole. No. 55,748; July 13; v. 276; p. 358.
Support. H. Kapneck. Nos. 55,796–7; July 13; v. 276; p. 367.
Switch-casing. R. H. Rogers and P. O. Dorer. No. 55,820; July 13; v. 276; p. 372.
Tablet, Memorial. J. R. Klepser. No. 55,800; July 13; v. 276; p. 368.
Tableware, Article of hollow. V. Gaertner. Nos. 55,773–6; July 13; v. 276; pp. 363–4.
Tableware, Gallery-mount for hollow. V. Gaertner. Nos. 55,771–2; July 13; v. 276; p. 363.
Talking-machine. J. A. Fern. Nos. 55,763–7; July 13; v. 276; pp. 361–2.
Teapot or similar article of hollow ware. G. E. Ball. No. 55,738; July 13; v. 276; p. 356.
Thermometer. C. E. Erickson. No. 55,760; July 13; v. 276; p. 361.
Timepiece-hands. F. A. Goodrow. Nos. 55,781–6; July 13; v. 276; pp. 365–6.
Tire, Automobile-. A. S. Fox. No. 55,768; July 13; v. 276; p. 362.
Tire-casing. W. C. Owen. No. 55,813; July 13; v. 276; p. 370.
Tire-cover. P. M. Lockwood. Nos. 55,803–4; July 13; v. 276; p. 369.
Tire, Elastic vehicle-. E. H. Trump. No. 55,832; July 13; v. 276; p. 374.
Tires, Tread of vehicle-. J. A. McLane. No. 55,808; July 13; v. 276; p. 370.
Toothpick-holder, Porcupine. A. Jardella. No. 55,794; July 13; v. 276; p. 367.
Toy, Figure. L. Morse. No. 55,810; July 13; v. 276; p. 370.
Tray or similar article, Bread-. V. Gaertner. No. 55,770; July 13; v. 276; p. 362.
Typewriter-frame. S. K. Ouzoun-Boghossian. Nos. 55,811–2; July 13; v. 276; p. 370.
Vehicles, Radiator-shell for motor-. W. W. Simpson. No. 55,822; July 13; v. 276; p. 372.
Vending and display stand, Combined. M. Metzger. No. 55,809; July 13; v. 276; p. 370.
Vending-cabinet. E. C. Booth. No. 55,742; July 13; v. 276; p. 357.
Watch-fob, locket, or pendant. H. Allen. No. 55,735; July 13; v. 276; p. 356.
Wheel, Metal. M. Lachman. No. 55,801; July 13; v. 276; p. 368.
Windshield. A. C. Lillie. No. 55,802; July 13; v. 276; p. 369.

ALPHABETICAL LIST OF TRADE-MARKS.

Air-compressor equipments and parts thereof, Unitary. The United States Air Compressor Co. No. 133,193; July 13; v. 276; p. 404.
Alloy wire for electrical purposes. J. E. Dockendorff & Co. No. 133,120; July 13; v. 276; p. 401.
Alloys of copper, tin, zinc, &c. The Phosphor Bronze Smelting Company. No. 133,175; July 13; v. 276; p. 403.
Aviators' supplies. A. V. Roe & Co. No. 133,178; July 13; v. 276; p. 403.
Baseballs. J. de Beer & Son. No. 133,114; July 13; v. 276; p. 401.
Beating and mixing machines, Electrically-driven. Hobart Manufacturing Company. No. 133,143; July 13; v. 276; p. 402.
Belting, hose, machinery packings, &c. Imperial Belting Company. No. 133,144; July 13; v. 276; p. 402.
Belting, hose, machinery packing, and non-metallic tires. Imperial Belting Company. No. 133,145; July 13; v. 276; p. 402.
Boards, Ouija-. A. S. Crockett. No. 133,112; July 13; v. 276; p. 401.
Bottle-washing machines. Geo. J. Meyer Manufacturing Co. No. 133,164; July 13; v. 276; p. 403.
Candy. C. A. Crane. No. 133,111; July 13; v. 276; p. 401.
Candy-bars. M. Williams. No. 133,197; July 13; v. 276; p. 404.
Cheese-cutters, Computing. Computing Cheese Cutter Co. No. 133,110; July 13; v. 276; p. 401.
Chemicals and chemical oils for use in the manufacture of fertilizer. Eugene Suter & Company. No. 133,189; July 13; v. 276; p. 404.
Chemicals, medicines, and pharmaceutical preparations. Società Industrie Chimiche Ittiolo. No. 133,184; July 13; v. 276; p. 403.

Clock and watch dials. T. Bargman. No. 133,100; July 13; v. 276; p. 401.
Clothing. Cisco, Inc. No. 133,109; July 13; v. 276; p. 401.
Clothing. L. Potter. No. 133,176; July 13; v. 276; p. 403.
Conduits, conductors, and electrical merchandise. The Thomas & Betts Co. No. 133,191; July 13; v. 276; p. 404.
Cordage, Hemp. Società Anonima Filature e Tessiture Riunite. No. 133,183; July 13; v. 276; p. 403.
Cotton piece goods. Fearing, Whiton & Co. No. 133,128; July 13; v. 276; p. 402.
Cream, Toilet. B. E. Lapeyre. No. 133,155; July 13; v. 276; p. 402.
Cutlery, machinery, and tools, and parts thereof. Chicago Pneumatic Tool Company. No. 133,108; July 13; v. 276; p. 401.
Cutlery, machinery, and tools, and parts thereof. Ingersoll-Rand Company. No. 133,147; July 13; v. 276; p. 402.
Cutlery, machinery, and tools, and parts thereof. National Equipment Company. No. 133,169; July 13; v. 276; p. 403.
Dental, medical, and surgical appliances. C. Dewitt Lukens Surgical Manufacturing Co. No. 133,158; July 13; v. 276; p. 403.
Dolls. E. Shaver. No. 133,181; July 13; v. 276; p. 403.
Dolls. New Toy Co. No. 133,173; July 13; v. 276; p. 403.
Electrical supplies. J. E. Dockendorff & Co. Nos. 133,118–9; July 13; v. 276; p. 401.
Electrical apparatus, machines, and supplies. Cherry Tree Machine Company. No. 133,107; July 6; v. 276; p. 401.

Electrical apparatus, machines, and supplies. J. E. Dockendorff & Co. No. 133,117; July 13; v. 276; p. 401.
Fancy goods, furnishings, and notions. Herbert Terry & Sons. No. 133,100; July 13; v. 276; p. 404.
Food-choppers, combination meat and food cutters, &c. Griswold Manufacturing Company. No. 133,135; July 13; v. 276; p. 402.
Foods, Prepared sea-. Charles Noble, Jr., Company. No. 133,174; July 13; v. 276; p. 403.
Games and toys. The A. C. Gilbert Company. No. 133,132; July 13; v. 276; p. 402.
Gear reducers, power-transmission machinery, &c., Spur-. W. A. Jones Foundry & Machine Co. No. 133,151; July 13; v. 276; p. 402.
Glassware, Table and fancy. George Borgfeldt & Co. No. 133,104; July 13; v. 276; p. 401.
Gloves, Knit. Morgan Knitting Mills. No. 133,166; July 13; v. 276; p. 403.
Golf-clubs. A. G. Spalding & Bros. No. 133,185; July 13; v. 276; p. 403.
Grease-cups. The Lunkenheimer Company. Nos. 133,159–60; July 13; v. 276; p. 403.
Hats, Men's felt. Frank Schoble & Co. No. 133,179; July 13; v. 276; p. 403.
Hats, Women's, misses', and children's trimmed. David Baird and Son. No. 133,099; July 13; v. 276; p. 401.
Hardware and plumbing and steam-fitting supplies. Walworth Manufacturing Company. No. 133,195; July 13; v. 276; p. 404.
Hardware supplies. National Brass Company. No. 133,168; July 13; v. 276; p. 403.
Heaters and parts thereof. J. H. Grayson Mfg. Co. No. 133,134; July 13; v. 276; p. 402.
Heating, lighting, and ventilating apparatus. Hammer-Bray Co. No. 133,139; July 13; v. 276; p. 402.
Hosiery. The Fair. No. 133,127; July 13; v. 276; p. 402.
Iron and steel. Federal Tool & Alloy Steel Corporation. No. 133,129; July 13; v. 276; p. 402.
Irrigation systems, and valves and parts of such systems, Lawn and garden. Hadden Automatic Sprinkler Company. No. 133,136; July 13; v. 276; p. 402.
Knitted, netted, and textile fabrics. Jennings Lace Works Corp. No. 133,149; July 13; v. 276; p. 402.
Knitted underwear. Everett Knitting Works. No. 133,126; July 13; v. 276; p. 401.
Limbs, Artificial. O. E. Worman. No. 133,199; July 13; v. 276; p. 404.
Liquors, Distilled alcoholic. Boord & Son. No. 133,103; July 13; v. 276; p. 401.
Lubricators, Mechanical. The Lunkenheimer Company. No. 133,161; July 13; v. 276; p. 403.
Machinery and tools and parts thereof. L. L. Gilcrease. No. 133,133; July 13; v. 276; p. 402.
Machinery and tools, dies, jigs, and parts thereof. Special Tool Engineering Manufacturing Company. No. 133,186; July 13; v. 276; p. 403.
Metal, Babbitt. United American Metal Corporation. No. 133,192; July 13; v. 276; p. 404.
Metal ingots, Non-ferrous. Eastern Brass and Ingot Corporation. No. 133,124; July 13; v. 276; p. 401.
Metals and metal castings and forgings. Blue Ridge Metals Corporation. No. 133,102; July 13; v. 276; p. 401.
Milk, Dry. The Dry Milk Company. No. 133,122; July 13; v. 276; p. 401.
Millstones, Electrically-operated grinders for. R. G. Haskins Company. No. 133,140; July 13; v. 276; p. 402.
Nails, Molders'. The Fowler Nail Co. No. 133,130; July 13; v. 276; p. 402
Oils and adhesive core compounds, Core-. Detroit Soluble Oil Co. No. 133,116; July 13; v. 276; p. 401.
Oils and greases. Johnson Oil Refining Company. No. 133,150; July 13; v. 276; p. 402.
Oils and greases. Sun Company. Nos. 133,187–8; July 13; v. 276; p. 408.
Ointment, Healing-. Seminole Chemical Co. No. 133,180; July 13; v. 276; p. 403.
Packing, Composition. P. S. Dodd. No. 133,121; July 13; v. 276; p. 401.
Paints, pigments, colors ground in japan, oil-stains, &c. Kent & Purdy Paint Company. No. 133,152; July 13; v. 276; p. 402.
Paper, Collodion self-toning printing-out. J. L. Lewis. No. 133,157; July 13; v. 276; p. 403.
Patches, Tube-. Leach Patch Company. No. 133,156; July 13; v. 276; p. 402.
Photographic film. Eastman Kodak Company. No. 133,125; July 13; v. 276; p. 401.
Picture apparatus and accessories, Motion-. United Theatre Equipment Corporation. No. 133,194; July 13; v. 276; p. 404.
Picture films, Moving-. S. H. Hadley. No. 133,137; July 13; v. 276; p. 402.
Picture films, Moving-. C. E. Hallgren. No. 133,138; July 13; v. 276; p. 402.
Pipe-wrenches. Walworth Manufacturing Company. No. 133,196; July 13; v. 276; v. 404.
Plumbing and steam-fitting supplies. International Couplers Company. No. 133,148; July 13; v. 276; p. 402.
Printed sheets. National Geographic Society. No. 133,170; July 13; v. 276; p. 403.
Rock-drills. Ingersoll-Rand Company. No. 133,146; July 13; v. 276; p. 402.
Sanitary goods. M. S. George. No. 133,131; July 13; v. 276; p. 402.
Saws and machine, cane, &c., knives. Sheffield Works, Inc. No. 133,182; July 13; v. 276; p. 403.
Screw and chucking machines. The New Britain Machine Company. No. 133,171; July 13; v. 276; p. 403.
Spark-plugs. Aircraft & Motor Products Co. No. 133,097; July 13; v. 276; p. 401.
Spoons, Wooden. J. H. Mulholland. No. 133,167; July 13; v. 276; p. 403.
Sprinklers, Automatic. R. W. Newton. No. 133,172; July 13; v. 276; p. 403.
Surgical appliances. Dental Products Company. No. 133,115; July 13; v. 276; p. 401.
Syrups, Corn and maltose. Young & Wile. No. 133,200; July 13; v. 276; p. 404.
Theaters, Miniature. E. Moore. No. 113,165; July 13; v. 276; p. 403.
Timepieces. F. W. Alter. No. 133,098; July 13; v. 276; p. 401.
Tin, Pig-. Richards and Co. No. 133,177; July 13; v. 276; p. 403.
Tires and tubes, Automobile and truck. Mason Tire & Rubber Co. No. 133,162; July 13; v. 276; p. 403.
Tires and tubes, Rubber. C. Kenyon Company. No. 133,153; July 13; v. 276; p. 402.
Tires, Inner tubes for vehicle-. Dural Rubber Corporation. No. 133,123; July 13; v. 276; p. 401.
Toilet and manicure sets. Herculean Products Company. Nos. 133,141–2; July 13; v. 276; p. 402.
Toys, O. M. Burton. No. 133,105; July 13; v. 276; p. 401.
Tungsten. Metal & Thermit Corporation. No. 133,163; July 13; v. 276; p. 403.
Twines, string, and cordage. C. C. Davis. No. 133,113; July 13; v. 276; p. 401.
Typewriters. Blickensderfer Manufacturing Company. No. 133,101; July 13; v. 276; p. 401.
Valves, Compressor-. Bury Compressor Company. No. 133,106; July 13; v. 276; p. 401.
Watches. Knickerbocker Watch Co. No. 133,154; July 13; v. 276; p. 402.
Woodworking-machines. S. A. Woods Machine Co. No. 133,198; July 13; v. 276; p. 404.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Acoustic appliances. J. Maser. No. 96,675; July 13; v. 276; p. 377.
Alloy, Ferrotungsten, The Continuous Reaction Comp'y. No. 118,957; July 13; v. 276; p. 380.
Alloys and steel and iron castings and forgings, Metal. C. Vos. No. 131,094; July 13; v. 276; p. 392.
Alloys, Cupronickel. Branford Electric Company. No. 118,461; July 13; v. 276; p. 380.
Alloys, Ferronickel. Branford Electric Company. No. 118,462; July 13; v. 276; p. 380.
Anesthetics. The Abbott Laboratories. No. 128,639; July 13; v. 276; p. 386.
Apple-butter. The Red Wing Company. No. 132,813; July 13; v. 276; p. 899.
Apples, Boxed. The Winthrop Orchards. No. 127,679; July 13; v. 276; p. 384.
Apples, Fresh. S. E. Gillinsky. Nos. 126,797–8; July 13; v. 276; p. 383.
Armbands, garters, suspenders. Slonim Brothers. No. 124,695; July 13; v. 276; p. 382.
Aspirin. International Consolidated Chemical Corporation. No. 129,211; July 13; v. 276; p. 387.
Automobile tops and curtains and top and curtain windows. Shugers Mfg. Co. No. 131,823; July 13; v. 276; p. 395.
Bells, bolts, brads, chains, &c. Chelsea Engineering Sales Corporation. No. 130,206; July 13; v. 276; p. 389.
Belt-dressings. E. L. Murphy. No. 128,399; July 13; v. 276; p. 385.
Belting and diaphragms for paper-mill vats. The B. F. Goodrich Company. No. 128,496; July 13; v. 276; p. 385.
Brassières. The Lucile Somerco Brassiere Co. No. 125,514; July 13; v. 276; p. 382.
Buildings, Sectional or knockdown. Masterbilt Homes. No. 129,240; July 13; v. 276; p. 387.
Buttermilk, Powdered. Manufacturers Purchasing Corporation. No. 125,006; July 13; v. 276; p. 382.
Button fasteners, Three-pronged-. Heaton-Peninsular Button Fastener Co. No. 132,863; July 13; v. 276; p. 399.
Cabs for motor-vehicles, Closed. The General Woodwork Co. No. 132,092; July 13; v. 276; p. 396.
Candies. Queen Anne Candy Co. No. 115,738; July 13; v. 276; p. 378.
Candies. Wicks & Co. No. 132,904; July 13; v. 276; p. 400.
Candies, Edible composition for use as an ingredient of. Bugler & Goebel Company. No. 131,562; July 13; v. 276; p. 394.
Candy. Mint Products Co. No. 132,477; July 13; v. 276; p. 398.
Candy. P. Rosen. No. 131,594; July 13; v. 276; p. 395.
Candy. Palmer Candy Co. No. 132,361; July 13; v. 276; p. 397.
Candy. Samoset Chocolate Company. No. 132,452; July 13; v. 276; p. 398.
Candy. The Golden Pheasant. No. 132,528; July 13; v. 276; p. 398.
Candy and chocolate. The Redel Candy Corporation. No. 116,211; July 13; v. 276; p. 379.
Candy and confectionery. R. B. Johnson. No. 131,175; July 13; v. 276; p. 892.
Candy, Chocolate-bar. Halligan Candy Company. No. 132,357; July 13; v. 276; p. 397.
Candy, Hard panned. Mason, Au & Magenheimer Confectionery Manufacturing Company. No. 132,259; July 13; v. 276; p. 397.
Candy tablets. D. B. Weinstein. No. 130,111; July 13; v. 276; p. 389.
Candy tablets, Fruit-juice. P. K. Condrell. No. 130,319; July 13; v. 276; p. 390.
Canned fruits. Graves Canning Co. No. 129,714; July 13; v. 276; p. 388.
Canned fruits and vegetables. Bisceglia Brothers. No. 132,504; July 13; v. 276; p. 398.
Canned fruit and vegetables. Norwood Canning and Manufacturing Co. No. 132,193; July 13; v. 276; p. 397.
Canned fruits, vegetables, and fish. Tibbitts-Hewitt Grocery Co. No. 132,575; July 13; v. 276; p. 399.
Canned fruits, vegetables, and milk. Griffith-Durney Co. No. 132,810; July 13; v. 276; p. 399.
Canned fruits, vegetables, and sauer-kraut. West Coast Pickling & Canning Co. No. 130,075; July 13; v. 276; p. 388.
Canned salmon. Northwest Trading Company. No. 123,134; July 13; v. 276; p. 381.
Canned salmon. Seaboard Commercial Co. No. 132,826; July 13; v. 276; p. 399.
Caramel, burnt, brewing, and colored sugars. Lichtenstein & Company. No. 126,689; July 13; v. 276; p. 383.
Cars, Steam and air pipe couplers for railway-. J. Robinson. No. 116,391; July 13; v. 276; p. 379.
Castings and alloys of steel and iron, Metal. Milwaukee Steel Foundry Company. Nos. 131,532–3; July 13; v. 276; p. 394.
Cement, Portland. Huron Portland Cement Company. No. 130,220; July 13; v. 276; p. 389.
Cheese, Phenix Cheese Company. No. 133,064; July 13; v. 276; p. 400.
Chocolates. D. Auerbach & Sons. No. 132,159; July 13; v. 276; p. 396.
Chocolates, bonbons, and candies. C. Scourby. No. 132,491; July 13; v. 276; p. 398.
Clasps or fasteners, Metal. H. A. Astlett. No. 132,286; July 13; v. 276; p. 397.
Cleaning and cleansing compounds. The Wells Manufacturing Company. No. 125,640; July 13; v. 276; p. 383.
Cleaning and polishing enameled surfaces, Liquid preparations for. V. M. McVey. No. 131,841; July 13; v. 276; p. 395.
Cleansing preparation for textiles, kid shoes, &c. Tyler Chemical Company. No. 131,927; July 13; v. 276; p. 395.
Coats, trousers, &c., Men's. Max Spiro & Co. No. 125,582; July 13; v. 276; p. 383.
Cocoa. Private Estate Coffee Company. No. 132,362; July 13; v. 276; p. 397.
Coffee. G. E. Bursley & Company. No. 132,910; July 13; v. 276; p. 400.
Coffee. Pan American Coffee Co. No. 132,144; July 13; v. 276; p. 396.
Coffee. Sehon, Stevenson and Company. No. 118,800; July 13; v. 276; p. 380.
Coffee, tea, olive-oil, &c. Private Estate Coffee Company. No. 132,363; July 13; v. 276; p. 398.
Cold-water white. The Tripod Paint Co. No. 129,354; July 13; v. 276; p. 387.
Columns for building purposes, Metal. The Union Metal Manufacturing Company. No. 131,238; July 13; v. 276; p. 393.
Combs, barrettes, beads, stocking-darners, finger-shields, &c. The Celluloid Company. No. 109,072; July 13; v. 276; p. 377.
Combs, barrettes, chignon-pins, glove-darners, thimbles, &c. The Celluloid Company. No. 109,096; July 13; v. 276; p. 377.
Combs, beads, tatting-shuttles, &c. The Celluloid Company. Nos. 110,680–1; July 13; v. 276; pp. 877–8.
Cotton and woolen piece goods. R. H. Linton. No. 130,909; July 13; v. 276; p. 392.
Cotton, Sewing-. De Luxe Thread Corp. No. 131,259; July 13; v. 276; p. 393.
Countersinks, dies, gimlets, knives, &c. Chelsea Engineering Sales Corporation. No. 130,209; July 13; v. 276; p. 389.
Cretonnes and silkolines. F. A. Patrick & Co. No. 130,924; July 13; v. 276; p. 392.
Dairy rations, horse feed, and scratch-grains. The Beacon Feed Company. No. 119,626; July 13; v. 276; p. 381.
Dental appliances. The Ransom & Randolph Company. No. 116,974; July 13; v. 276; p. 379.
Dish, scrub, and sponge cloth, cotton duck, &c. Hooper Sons' Manufacturing Company. No. 132,864; July 13; v. 276; p. 400.
Dress-shields and garters. I. B. Kleinert Rubber Company. No. 131,337; July 13; v. 276; p. 393.
Dresses and rompers, Infants' and children's. B. A. Collins & Co. No. 127,040; July 13; v. 276; p. 384.
Dresses, Women's. B. S. Ginsberg. No. 129,496; July 13; v. 276; p. 388.
Electric meters. National Carbon Company. No. 132,753; July 13; v. 276; p. 399.
Engines, pumps, &c., Stationary, marine, truck, and tractor. Petroleum Engine & Manufacturing Co. No. 127,486; July 13; v. 276; p. 384.
Fabrics, Pile. Sanford Mills. No. 128,050; July 13; v. 276; p. 385.
Feed, Dairy and stock. American Mutual Seed Co. No. 116,733; July 13; v. 276; p. 379.
Fillers, Metallic. Aluminum Brazing Solder Company. No. 132,420; July 13; v. 276; p. 398.

Fish—viz, canned pilchards. Nootka Packing Company. No. 123,075; July 13; v. 276; p. 381.
Flavoring extracts, egg substitute, and pie-fillers. Campbell Products Corporation. No. 132,465; July 13; p. 276; p. 398.
Flavoring extracts for foods and dessert preparations. V. V. Campbell. No. 132,168; July 13; v. 276; p. 396.
Food, Baby. V. J. Hoyt. No. 131,480; July 13; v. 276; p. 394.
Food-drink. L. Fultz, Jr., E. L. McKenzie, and F. W. Korsmeyer. No. 117,487; July 13; v. 276; p. 379.
Food products. Price Specialty Company. No. 118,970; July 13; v. 276; p. 381.
Food products, Pure. W. Diehnelt. No. 113,279; July 13; v. 276; p. 378.
Freighting-outfits. The Holt Manufacturing Company. No. 105,358; July 13; v. 276; p. 377.
Fruits, Fresh. Meyers, Darling & Hinton Co. No. 132,805; July 13; v. 276; p. 399.
Furniture and automobile polish or gloss for any woodwork. J. Wexler. No. 130,457; July 13; v. 276; p. 390.
Games, game-boards, toy vehicles, &c., Card. Ambler Toy Manufacturing Company. No. 128,641; July 13; v. 276; p. 396.
Garment-hanger, Combination. Dean & Williams Co. No. 132,138; July 13; v. 276; p. 396.
Garment-pressing machines, Tailors'. F. A. Patrick & Co. No. 130,927; July 13; v. 276; p. 392.
Germicide, disinfectant, deodorant, &c. The Yardley Chemical Corporation. No. 128,634; July 13; v. 276; p. 386.
Glass baking and cooking utensils, tubings, &c. Gill Brothers Company. No. 127,506; July 13; v. 276; p. 384.
Glass bottles. *Berney-Bond Glass Company. No. 131,140; July 13; v. 276; p. 392.
Glass spoons and sippers, Combined. Hirsch-Malgood Co. No. 131,424; July 13; v. 276; p. 394.
Gum and candy, Chewing-. Listerated Gum Corporation. No. 130,481; July 13; v. 276; p. 390.
Hair-nets. Reichman & Faust. No. 123,574; July 13; v. 276; p. 381.
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Hats, coats, raincoats, &c. Waterproof Garment Co. No. 125,141; July 13; v. 276; p. 382.
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Jam, jelly, fruit preserves, conserves. The Welch Grape Juice Company. No. 132,333; July 13; v. 276; p. 397.
Jam, jelly, fruit preserves, conserves. The Welch Grape Juice Company. No. 132,280; July 13; v. 276; p. 397.
Knives, cleavers, and steels. American Tap and Die Co. No. 130,311; July 13; v. 276; p. 390.
Laces and button-hooks, Shoe-. Dorothy Dodd Shoe Company. No. 132,596; July 13; v. 276; p. 399.
Laces, Shoe-. Saylor & Co. No. 133,500; July 13; v. 276; p. 400.
Lamps, Electric. Lux Manufacturing Co. No. 132,183; July 13; v. 276; p. 396.
Lard, ham, bacon. Patrick-Young Company. No. 132,059; July 13; v. 276; p. 396.
Lead and ready-mixed paints, White. The Tripod Paint Co. No. 129,357; July 13; v. 276; p. 387.
Leather, Artificial. Armstrong Cork Company. No. 130,081; July 13; v. 276; p. 388.
Leather, Polish for incidentally dyeing. G. C. Thomsen & A. A. Adams. No. 130,701; July 13; v. 276; p. 391.
Leavening material or compound composed of baking-powder and eggs. Technical Food Products Company. No. 114,840; July 13; v. 276; p. 378.
Lenses, Projection-. Projection Optics Co. No. 129,568; July 13; v. 276; p. 388.
Lubricating systems. Standex Manufacturing Corporation. No. 117,070; July 13; v. 276; p. 379.
Lumber and staves, Dressed. Bencoe Lumber Company. No. 126,095; July 13; v. 276; p. 383.
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Machinery, tools, &c. The National Supply Company. No. 118,058; July 13; v. 276; p. 380.
Middy-blouses. Z. & S. Middy Co. No. 125,333; July 13; v. 276; p. 382.
Milk, evaporated. Freeport Condensed Milk Co. No. 131,789; July 13; v. 276; p. 395.
Milk, Evaporated. Federal condensed Milk Company. No. 132,349; July 13; v. 276; p. 397.
Milk, Powdered. M. C. Peltason. No. 131,353; July 13; v. 276; p. 394.
Mill-white. The Tripod Paint Co. No. 129,358; July 13; v. 276; p. 387.
Motors, Gasolene-. Herschell-Spillman Motor Company. No. 131,865; July 13; v. 276; p. 395.
Nails and tacks. United Shoe Machinery Corporation. No. 130,247; July 13; v. 276; p. 389.
Needles, hair and hat pins, buttons, &c. Waldes & Co. No. 121,077; July 13; v. 276; p. 381.
Oakum. George Stratford Oakum Co. No. 106,733; July 13; v. 276; p. 377.
Optical and scientific appliances. Spencer Lens Company. No. 126,825; July 13; v. 276; p. 384.
Optical and scientific appliances. Spencer Lens Company. No. 126,972; July 13; v. 276; p. 384.
Organdie piece goods. Trippe, Barker & Co. No. 131,134; July 13; v. 276; p. 392.
Ovens for baking bread. Meek Oven Manufacturing Company. No. 130,727; July 13; v. 276; p. 391.
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Packing, Sheet-. James Walker & Co. No. 123,675; July 13; v. 276; p. 382.
Packing, Sheet-. The Continental Supply Company. No. 126,615; July 13; v. 276; p. 383.
Packing, Steam and hydraulic. James Walker & Co. No. 123,676; July 13; v. 276; p. 382.
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Pickles, mustard, salad-dressing. C. Trearchis. No. 116,801; July 13; v. 276; p. 379.
Picture films, Motion-. National Picture Theatres. No. 131,447; July 13; v. 276; p. 394.
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Piston-rings. Nilson-Miller Company. No. 127,737; July 13; v. 276; p. 385.
Placket and glove fasteners, needles, buttons, &c. Waldes & Co. No. 121,081; July 13; v. 276; p. 381.
Pork and beans. Kingan & Company, Limited. No. 128,310; July 13; v. 276; p. 385.
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Receptacles, Trash-. National Sanitary Street System. No. 129,643; July 13; v. 276; p. 388.
Remedy for sore throat, cuts, burns, &c. The Yardley Chemical Corporation. No. 128,635; July 13; v. 276; p. 386.
Remedy for treatment of pyorrhea, infected teeth, &c. The Yardley Chemical Corporation. No. 128,636; July 13; v. 276; p. 386.
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Rope, Wire. The Firth Company. No. 116,130; July 13; v. 276; p. 378.
Rubber shoes, aprons, belts, &c., Sanitary. I. B. Kleinert Rubber Company. No. 127,724; July 13; v. 276; p. 385.
Rubber shoes, aprons, belts, &c., Sanitary. I. B. Kleinert Rubber Company. No. 127,726; July 13; v. 276; p. 385.
Salts, Effervescent. The Abbott Laboratories. No. 128,640; July 13; v. 276; p. 386.
Sardines. Portland Products Company. Nos. 132,550–1; July 13; v. 276; p. 398.
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Shoe dressing, Leather-. Waterproof Oil Products Co. No. 117,077; July 13; v. 276; p. 379.
Shoe-polish and hat-cleaning material. N. Piccoli. No. 128,518; July 13; v. 276; p. 386.
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Soap. H. A. Knapp. No. 131,706; July 13; v. 276; p. 395.
Soap. J. A. Clark. No. 132,629; July 13; v. 276; p. 399.
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Soap. W. T. Gillett. No. 133,209; July 13; v. 276; p. 400.
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Soap, Toilet. Haskins Bros. & Company. No. 132,920; July 13; v. 276; p. 400.
Soaps, Cake, bar, paste, &c. J. H. Karp. No. 133,422; July 13; v. 276; p. 400.
Soaps, soap and scouring powders, &c. Grand Union Tea Co. No. 124,894; July 13; v. 276; p. 382.
Spark-plug and contact-point cleaner. The Duro Company. No. 130,130; July 13; v. 276; p. 389.
Steel. The National Pressed Steel Company. No. 130,768; July 13; v. 276; p. 391.
Steel, Rolled. The Superior Sheet Steel Company. No. 125,911; July 13; v. 276; p. 383.
Suspenders. J. A. Harps. No. 133,217; July 13; v. 276; p. 400.
Tablets and powdered cleanser, Laundry-. T. R. Ponto. No. 116,151; July 13; v. 276; p. 378.
Tax-registers. W. Silverberg. No. 118,022; July 13; v. 276; p. 380.

Telephone-concealing device. H. W. Knight. No. 130,600; July 13; v. 276; p. 391.
Tires. The Dunlop Rubber Company. No. 130,092; July 13; v. 276; p. 389.
Tires and tubes for vehicles. Racine Rubber Company. No. 130,494; July 13; v. 276; p. 390.
Tires for motor-cars and other vehicles, Rubber. E. B. Killen. No. 113,809; July 13; v. 276; p. 378.
Tires, Vulcanizing outfits for rubber. The Williams Foundry & Machine Co. No. 122,743; July 13; v. 276; p. 381.
Tractors, Farm-. Tioga Manufacturing Company. No. 130,778; July 13; v. 276; p. 391.
Tractors, gas and kerosene internal-combustion engines. American Tractor & Foundry Company. No. 128,816; July 13; v. 276; p. 387.
Trimmings and garnitures for ladies', infants', and children's wearing-apparel. M. H. Amick. No. 128,949; July 13; v. 276; p. 387.
Tubes, Inner. The Ohio Rubber Co. No. 130,286; July 13; v. 276; p. 390.
Tubings, Base-metal. Summerill Tubing Company. No. 132,150; July 13; v. 276; p. 396.
Turpentine, Synthetic Venice. J. L. Hopkins & Co. No. 129,012; July 13; v. 276; p. 387.
Varnish. The I. D. George Company. No. 131,038; July 13; v. 276; p. 392.
Varnish, Spirit-. John W. Masury & Son. No. 129,941; July 13; v. 276; p. 388.
Vehicles, automobiles, motor-trucks, Motor-. Oshkosh Motor Truck Mfg. Co. No. 130,550; July 13; v. 276; p. 391.
Velocipedes, Children's. The Arrow Toy Mfg. Co. No 128,950; July 13; v. 276; p. 387.
Wagons, trailers, radiators for motor-vehicles. The Holt Manufacturing Company. No. 130,367; July 13; v. 276; p. 390.
Wall-board and building-paper. The Beaver Company. No. 132,004; July 13; v. 276; p. 396.
Washing compound. S. Bernstein. No. 130,355; July 13; v. 276; p. 390.
Window and door frames, Wooden. Andersen Lumber Company. No. 131,458; July 13; v. 276; p. 394.
Worsted waste and noils. A. H. Zayotti. No. 132,218; July 13; v. 276; p. 397.

CLASSIFICATION OF PATENTS

ISSUED JULY 13, 1920.

NOTE.—First number—class, second number—subclass, third number—patent number.

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AUGUST,

1920.

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ERRATA.

1,348,360, page 45, in heading, assignment, name of assignee, for "Tuttle Bailey Mfg. Co." read *Tuttle & Baily Mfg. Co.*

1,348,731, page 116, in heading, strike out assignment.

1,348,818, page 132, in heading, line 3, for the class number "305–4" read *2–98.*

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THE OFFICIAL GAZETTE OF THE United States Patent Office.

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Notice of Cancelation.

Department of the Interior,
United States Patent Office.
Washington, D. C., July 19, 1920.

Alfred Victor Brokhahne, his assigns or legal representatives, take notice:

An application has been filed in this Office by Sigmund Isaacs, of New York, N. Y., to effect the cancelation of the trade-mark registration of Alfred Victor Brokhahne, of New York, N. Y., No. 12,417, dated July 21, 1885. The Office having been unable to secure service upon said Alfred Victor Brokhahne at the said address, notice is hereby given that unless said Alfred Victor Brokhahne, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancelation will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Amendments.

In order to insure the prompt delivery of amendments to the proper examining division, applicants are requested in their actions on applications to give the division number and the room number appearing on the last Office letter, as well as the date of such letter.

Amendment of Rules of Practice.

Under the provisions of section 483, Revised Statutes, and with the approval of the Secretary of the Interior, Rule 139 of the Rules of Practice of the United States Patent Office is amended as follows:

By inserting after the word "appeal" in line 4 of the fourth paragraph of that rule the words *and whenever in his opinion substantial justice shall require it,* and by omitting from line 6 of that paragraph the words "he will," so that the rule as amended will read as follows:

139. The Examiners-in-Chief in their decision shall affirm or reverse the decision of the Primary Examiner only on the points on which appeal shall have been taken. (See Rule 133.) Should they discover any apparent grounds not involved in the appeal for granting or refusing Letters Patent in the form claimed, or any other form, they shall annex to their decision a statement to that effect with such recommendation as they shall deem proper.

Should the Examiners-in-Chief recommend the refusal of Letters Patent in the form claimed, their recommendation will stand as a rejection and will reopen the case for amendment or showing of fact, or both, before the Primary Examiner, responsive to that rejection. The recommendation of the Examiners-in-Chief is binding upon the Primary Examiner unless an amendment or showing of facts not previously of record be made which, in the opinion of the Primary Examiner, overcomes the recommendation. The applicant may waive the right to prosecution before the Primary Examiner and have the case reconsidered by the Examiners-in-Chief upon the same record, and from an adverse decision of the Examiners-in-Chief on reconsideration, appeal will lie to the Commissioner, as in other cases. The applicant may also waive reconsideration by the Examiners-in-Chief and appeal directly to the Commissioner.

Should the Examiners-in-Chief recommend the granting of Letters Patent in an amended form, the applicant shall have the right to amend in conformity with such recommendation, which shall be binding upon the Primary Examiner in the absence of new references or grounds for rejection.

If the Commissioner, in reviewing the decision of the Examiners-in-Chief, discovers any apparent grounds for refusing Letters Patent not involved in the appeal, he will, before or after decision on the appeal, and whenever in his opinion substantial justice shall require it, give reasonable notice thereof to the applicant, and if any amendment or action based thereon be proposed, remand the case to the Primary Examiner for consideration.

Rule 72, as Amended April 17, 1919.

Rule 72. After the completion of the application the Office will not return the specification for any purpose whatever. If applicants have not preserved copies of the papers which they wish to amend, the Office will furnish them on the usual terms.

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Sketches filed to show proposed changes in construction must be in permanent ink. (See Rule 30.) Substitute drawings will not be admitted in any case unless required by the Office.

2182

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business July 24, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Mar. 1	526
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines: Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Dec. 3	Feb. 11	968
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 13	Jan. 6	603
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Nov. 12	Apr. 19	1,487
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Mar. 31	Apr. 26	417
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 28	Jan. 26	552
312	7. Games and Toys; Optics; Photography; Velocipedes	Mar. 22	May 10	880
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	May 10	June 7	351
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Feb. 10	Mar. 4	550
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 6	June 1	920
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Mar. 1	Mar. 30	804
222	12. Machine Elements	Nov. 13	May 1	1,121
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 13	May 22	1,209
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	Apr. 13	669
308	15. Bread, Pastry, and Confection Making; Coating; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 6	Apr. 13	1,141
	16. Radiant Energy; Telegraphy; Telephony	Nov. 15	Dec. 11	887
111	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	May 3	May 17	190
307				
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 12	Mar. 9	1,116
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 12	Jan. 28	620
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 17	Apr. 26	710
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 19	June 4	485
249	22. Aeronautics; Firearms; Ordnance	Apr. 22	May 10	286
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 6	Apr. 26	718
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 17	June 2	638
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 28	June 14	192
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Nov. 17	Jan. 5	726
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Mar. 20	Apr. 2	602
225	28. Internal-Combustion Engines	Feb. 9	Apr. 15	704
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Jan. 15	May 24	596
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 12	June 1	1,142
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 17	Feb. 18	1,203
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Nov. 10	Apr. 5	1,233
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 3	Apr. 17	505
304	34. Electricity-Transmission to Vehicles; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	Jan. 29	Mar. 3	262
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	June 11	June 7	520
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 28	Mar. 3	1,179
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 6	Mar. 1	1,341
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Feb. 28	Apr. 24	795
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 15	Nov. 14	1,095
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 2	Feb. 25	893
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Dec. 3	Apr. 24	830
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Jan. 14	Mar. 4	1,023
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Dec. 13	Mar. 15	958
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Mar. 29	Apr. 13	293
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Jan. 14	May 11	661
264	46. Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Jan. 17	Apr. 19	517
332	47. Brakes; Clutches; Fluid Pressure Brake and Analagous Systems	Dec. 16	Jan. 22	795
	Oldest new case, Oct. 15; oldest amended, Nov. 14.			
	Total number of applications awaiting action			35,916
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:	Feb. 14	June 15	1,212
	Trade-Marks	Mar. 4	Apr. 1	653
	Designs	Mar. 6	Mar. 3	1,059
	Labels and Prints			

PATENTS

GRANTED AUGUST 3, 1920.

1,348,145. COLLAPSIBLE ROD. THOMAS RAYMOND ARDEN, New York, N. Y. Filed Dec. 19, 1918. Serial No. 267,463. 14 Claims. (Cl. 42—92.)



11. A collapsible rod, comprising a plurality of rod sections, a support therefor having serrated slots in its walls, a flexible connector for connecting the rod sections with the support, a casing in said support having a spring pressed movable head at one end thereof, one end of said connector being connected to said head, a lever pivotally mounted on said casing and adapted to tension and untension said connector, and projections on said lever adapted to engage the serration in said slots.

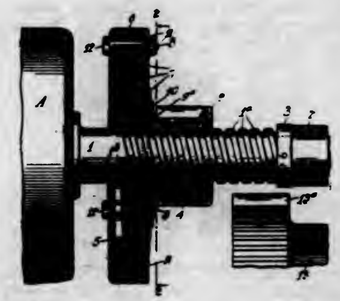
1,348,146. PISTON-RING. EDWARD BEECHER, St. Louis, Mo., assignor to McQuay-Norris Manufacturing Company, a Corporation of Missouri. Filed Sept. 3, 1918. Serial No. 252,421. 3 Claims. (Cl. 74—109.)



1. A one-piece piston ring comprising a resilient split metal band having its ends disengaged when free, and terminating in transverse abutting edges extending the width of the band contiguous to the inner face of the band, tongue extensions on the outer face of the band having inner sloping corners at their free ends and projecting beyond the transverse edges aforesaid disposed respectively contiguous to the opposite sides of the band, an outwardly facing depression leading from each transverse edge in an opposite direction from the tongue, the band being contractible by a movement of its free ends toward one another in the general plane of the band, whereby a tongue at one end in such contacting movement, is received by and guided into the depression opposite thereto at the other end, the transverse edges aforesaid being brought into contiguous relation with a complete closing of the band.

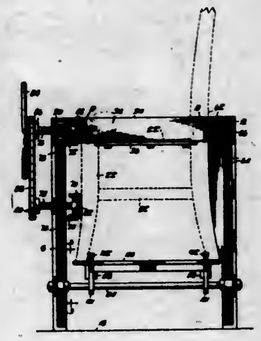
1,348,147. ENGINE-STARTER. VINCENT BENDIX, Chicago, Ill. Filed Dec. 17, 1917. Serial No. 207,459. 14 Claims. (Cl. 74—7.)

1. An engine starter drive or transmission, comprising a rotatable member, and an operating member mounted thereon for longitudinal movement thereof and rotary movement therewith, said operating member being formed of two parts, one a control member mounted on said rotatable member and having an outer bearing surface of uniform diameter, and the other a driving member having a smooth bore fitting onto said bearing surface of the control member whereby the driving member is adapted to



slide longitudinally on the control member and also rotate thereon, and means separate from the said two parts and forming the driving connection between them.

1,348,148. CHAIR-CLAMP. OSCAR BERGSTROM, Chicago, Ill., assignor to Handy Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 17, 1919. Serial No. 338,564. 6 Claims. (Cl. 144—289.)



1. In mechanism of the class described, a retaining frame of sufficient size to permit a chair to be clamped to be inserted within it to a point where the chair seat is at approximately the top of the frame, a chair leg supporting table vertically mounted in the lower portion of the frame, means for independently adjusting different portions of said supporting table with reference to the frame.

1,348,149. CARPET AND RUG FASTENER. THOMAS WILLIAM BUAN, New York, N. Y. Filed Feb. 25, 1920. Serial No. 361,274. 2 Claims. (Cl. 16—3.)

1. A carpet and rug fastening device consisting of a plate member adapted to be secured to a floor and pro-

vided in the bottom thereof with a longitudinal groove or recess which opens outwardly at one end thereof, and a



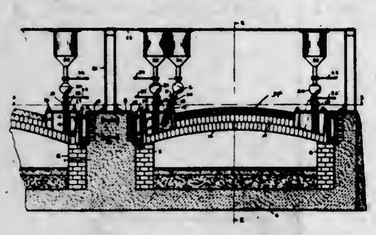
prong member provided with a shank adapted to be inserted into and retained in said groove or recess when said plate is secured to a floor or other surface.

1,348,150. CASTER. JOHN S. CANTELO, Boston, Mass. Filed Dec. 1, 1916, Serial No. 134,256. Renewed Dec. 10, 1919. Serial No. 343,816. 12 Claims. (Cl. 16—4.)



3. A caster comprising a body having a wheel journaled thereto equipped with a guard adapted to prevent the clinging of waste to the tread thereof, said wheel having saiffening fins at its outer side with the edges thereof rounded to prevent clingiug of waste or the like thereto.

1,348,151. ORE REDUCING AND REFINING FURNACE. HENRY L. CHARLES, Butte, Mont. Filed Nov. 6, 1917. Serial No. 200,614. 1 Claim. (Cl. 263—46.)



In combination with a furnace of the class described, ore inlets at the sides of said furnaces, and hollow water circulating boxes through which said ore inlets may be shifted.

1,348,152. MARINE TORPEDO. FREDERICK CONLIN, Elizabeth, N. J. Filed May 29, 1915. Serial No. 31,125. 10 Claims. (Cl. 114—20.)



1. A marine torpedo having an electric current as its source of power, a propeller, an electric motor for driving the same, and means for preventing the high speed of the propeller when the same begins to rotate.

1,348,153. PHOTOGRAPH-NEGATIVE-DEVELOPING FRAME. ELIJAH B. COBB, Yonkers, N. Y. Filed Sept. 18, 1919. Serial No. 324,892. 2 Claims. (Cl. 95—100.)

1. A frame comprising, skeleton side members; means for pivotally connecting said members at the lower end thereof; lateral flanges extended from said members to infold or to interlead, for holding the side members in spaced relation; a plurality of brace members, each mounted on one of the side members and inset therefrom, said



brace members being juxtaposed in active service relation, and having integrally formed therewith, end extensions projecting beyond the lateral edges of the frame for suspending the frame in the liquid bath; and means for holding said braces in juxtaposed relation.

1,348,154. GREASE-CUP. SIDNEY DAWSON, Chicago, Ill., assignor, by direct and mesne assignments, to Dawson Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1919. Serial No. 296,067. 9 Claims. (Cl. 184—38.)



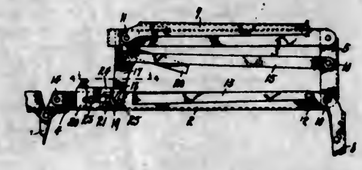
5. A grease cup comprising a cap member, a base member, a squared stem rigidly secured in the base member adapted to permit the flow of grease to pass through the base member, a disk in said cap member, locking springs struck from said disk and bent to contact against opposite sides of the squared stem to hold the cap member in an adjusted position, and a cupped retainer having star teeth integrally formed on the margin thereof to permit the retainer to be rigidly secured in said cap member against said disk to hold the disk rigidly secured in the cap member to be rotated thereby when the cap member is manually operated.

1,348,155. OPHTHALMIC MOUNTING. GEORGE H. DAY, Rochester, N. Y., assignor to E. Kirstein Sons Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 5, 1918. Serial No. 248,248. 4 Claims. (Cl. 88—53.)



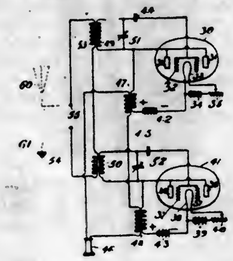
1. An ophthalmic mounting comprising a bridging portion, laterally deflected portions at the ends of the bridging portions, and a composition nose pad lying under the bridging portion and molded about said laterally deflected portion to permanently secure the pad to the mounting.

1,348,156. FOLDABLE BED-FRAME. PETER J. DE DOES, Toledo, Ohio, assignor to The Toledo Parlor Furniture Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 8, 1916. Serial No. 130,269. 9 Claims. (Cl. 5—49.)



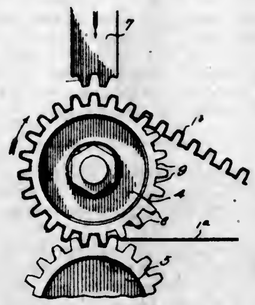
1. A plurality of foldably related major and minor bed frame sections, in combination with complementary catch members carried by different major sections of the bed frame and automatically operable to lock said sections in folded relation when the bed frame is folded, and vice versa, one of said members being carried by a major section for pivotal movements only relative thereto and connected to and movable with an adjoining minor section.

1,348,157. APPARATUS FOR AMPLIFYING PULSATING ELECTRIC CURRENTS. LEE DE FOREST, New York, N. Y., assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y., a Corporation of Delaware. Filed July 22, 1915. Serial No. 41,332. 4 Claims. (Cl. 250—8.)



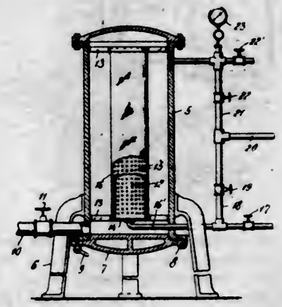
1. A source of electrical energy, a plurality of oscillating audions, each of said audions having an oscillating circuit connected between two of its electrodes, and means for locally connecting all of said oscillating circuits with said source.

1,348,158. PROCESS FOR MAKING MACHINE ELEMENTS. WALTER G. DOTY, Dayton, Ohio, assignor to The Wagner Engineering Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 26, 1917. Serial No. 208,959. 13 Claims. (Cl. 22—203.)



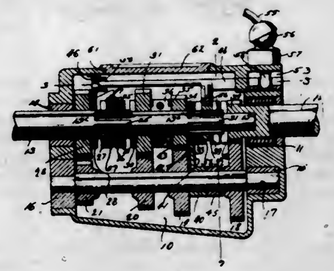
2. The herein described process of forming gears, comprising forming a corrugated tooth rim embedding said rim in a suitable mold, rigidly limiting the expansion of said rim independent of the mold, and pouring molten metal within the rim the expansive tendency of which against the unyielding rim insures uniform contact of the cast body with the rim.

1,348,159. METHOD OF AND APPARATUS FOR FILTERING. NORMAN B. DOWN, Sewell, Chile, assignor to Braden Copper Company, a Corporation of Maine. Filed Jan. 2, 1920. Serial No. 348,959. 7 Claims. (Cl. 210—183.)



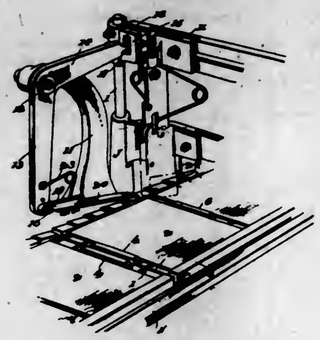
1. A method of separating solids from liquids and producing substantially dry filter cake which comprises, depositing the solids upon a curved filter surface through which the liquid is permitted to pass, withdrawing the surplus unfiltered material and passing a gaseous medium through the cake formed by the solids on said surface, the curvature of said surface being such that cracks, forming in the cake as the material dries, do not extend through the cake to said surface.

1,348,160. TRANSMISSION-GEAR. JAMES H. DOWNIE, San Antonio, Tex. Filed Sept. 15, 1919. Serial No. 323,755. 1 Claim. (Cl. 74—59.)



In a transmission including alined drive and driven shafts, the latter being stepped and having splines at the extremities of its steps, the combination with a driving gear fixed on the driving shaft, a counter shaft having fixed gears one of which meshes with said driving gear, gears connected with its other fixed gears and loose on the driven shaft, said loose gears and the driving shaft gear disposed in pairs and provided with clutch jaws facing each other, and a split collar fast on the driven shaft between the contiguous members of said pairs; of clutches slidable on said splines, means for actuating them selectively, a housing inclosing the mechanism, an arm on the housing having a flange engaging one loose gear at a point radially beyond its jaws, and a hub loose on the counter shaft and having a radial arm with a flange engaging another loose gear beyond its jaws, as described.

1,348,161. FEEDING MECHANISM FOR STAPLING-MACHINES. JAMES C. DOSHER, Baton Rouge, La. Filed Sept. 6, 1919. Serial No. 322,152. 2 Claims. (Cl. 1—14.)



2. The combination with a stapling machine provided with a reciprocating member, reciprocating stapling hammers operatively connected thereto, means for feeding stock to the hammers, comprising a racked form carrying the stock and movable under the hammers, a block carried by said reciprocating member and provided with a slot elongated in the direction of the reciprocations of said member, a rocker arm, a pawl pivotally connected at one end of said arm and engaging the teeth on the raked form, the other end of said arm extending into said slot and said other end of the arm having a width less than the length of said slot so as to provide a lost-motion device, substantially as described.

1,348,162. INDICATOR. ARTHUR G. FENN, Hartford, Conn. Filed Oct. 21, 1919. Serial No. 332,168. 6 Claims. (Cl. 33—172.)



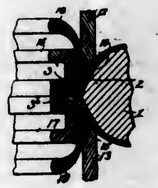
1. In an indicator of the class described, the combination with a base, a pivoted indicating pointer having a fixed part, and a lever operatively connected to the pointer adjacent the pivot of the latter, of a rotary stud carried by the base and spaced from the pivot of said pointer, a pair of springs carried by the stud and engaging said part fixed on said pointer, and means for rotating said stud.

1,348,163. RUBBER-SOLE SHOE. GEORGE FERGUSON, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 11, 1917. Serial No. 206,688. 25 Claims. (Cl. 36—18.)



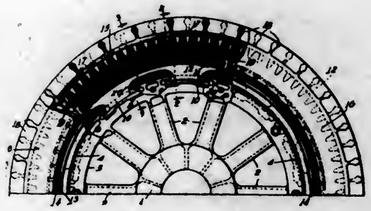
1. As an article of manufacture, an outer sole for shoes comprising a vulcanized rubber body molded to sole contour through the forepart and the shank and having a heel seat portion the outer surface of which is molded to provide a continuously convexed seat substantially complementary to the continuously concaved heel seat of a previously completed heel and which is arranged to terminate a distance within the periphery of the heel seat portion of a shoe and to be concealed by the previously completed heel when it is attached to the shoe.

1,348,164. METHOD FOR PUTTING BEADS ON TIRE-CARCASSES. WILLIAM G. FORDING, Cleveland, Ohio, assignor to John T. Lister, Cleveland, Ohio. Filed Mar. 10, 1916. Serial No. 83,216. 4 Claims. (Cl. 154—14.)



1. The process of forming a bead on a split tire carcass having loose extensions upon both sides of the inner peripheral split which consists in pressing oppositely disposed ring like members against the opposite sides of the carcass adjacent the place thereon at which the bead is to be formed, pressing the rings with uniform pressure simultaneously applied to all of the rings and folding the loose extensions around the ring like member and pressing the extension into contact with all portions of the ring like member.

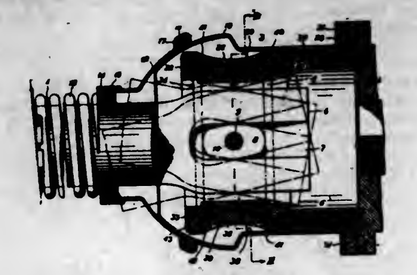
1,348,165. VEHICLE-WHEEL. FRANKLIN A. FROMMANN, Chicago, Ill. Filed June 21, 1917. Serial No. 176,195. 10 Claims. (Cl. 152—36.)



1. A vehicle wheel including a body member, a rim member, elastic cushioning means interposed therebetween adapted to permit a relative lateral movement of said members, and means associated with said cushion and one of said members for preventing relative radial movement of said member and said cushion.

1,348,166. TRANSMISSION. HARRY B. GARMAN, Detroit, Mich., assignor to Charles E. Thompson, Cleveland, Ohio. Filed Aug. 1, 1919. Serial No. 314,743. 9 Claims. (Cl. 64—89.)

1. In a transmission, the combination of driving and driven members; an intermediate universal joint comprising an element supported by one of said members and adapted to rock in one plane relatively thereto, and a second joint element adapted to rock in a transverse plane; means for pivotally securing together said joint elements; and means, in combination with the last-mentioned means, for pivotally securing together said first-mentioned joint element and the other member, and for



securing together said member and the second-mentioned joint element so that they rock together and are relatively longitudinally movable.

1,348,167. ART OF DYEING OR SIMILARLY TREATING TEXTILES. EUGENE S. GRAVES, Providence, R. I. Filed July 5, 1919. Serial No. 308,775. 13 Claims. (Cl. 8—5.)



6. A method of preparing fibrous filaments for dyeing or similar processes consisting in winding the same in combination with strands of a coarser material with the strands disposed in open relation to form a porous mass.

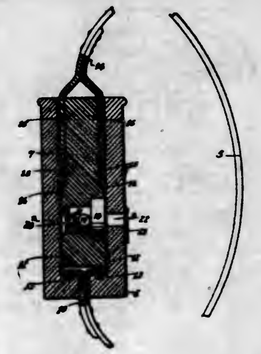
7. An improved cop or package for use in dyeing or otherwise treating textiles composed of strands of different materials interwound therein.

1,348,168. CHAIN-TIGHTENER. CARL C. GRAY, Minneapolis, Minn. Filed Oct. 13, 1919. Serial No. 330,366. 9 Claims. (Cl. 24—68.)



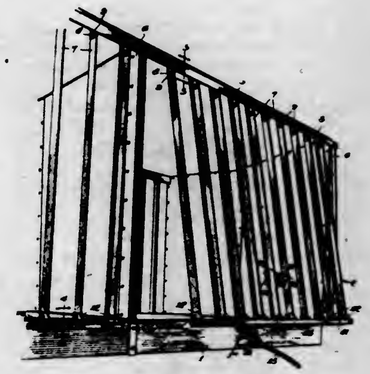
6. A tightening device comprising a bearing plate provided with a hook member and parallel side walls having pivoting sockets at their free edges, a locking lever disposed between said walls and having parallel side walls provided with pivoting slots, a pintle extending from a short arm of said lever to engage said sockets, and a hook member disposed between the walls of said lever and provided with a pivot pin adapted to travel in said slots and a seat intermediate its ends to engage the pivoted end of said lever.

1,348,169. AUTOMOBILE-TIRE LOCK. RAYMOND K. GRAY, Chicago, Ill., assignor, by direct and mesne assignments, to The Graynic Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 3, 1919. Serial No. 335,397. 1 Claim. (Cl. 70—17.)



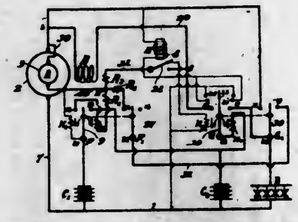
A locking device comprising a flexible member, a casing to which said member is secured at one end, a block to which the other end of said member is secured, said block being adapted to enter the casing, slidable bolts carried by the block and adapted to be projected from opposite sides thereof to enter keeper apertures in the casing, and a key-operated rotatable member carried by the block and operatively connected to the bolts for advancing and retracting the same, said member being housed in the casing when the block is inserted thereinto, and the casing having an aperture for entry of the key for operating said member.

1,348,170. SIDE-DOOR-CAR CONSTRUCTION. OTIS TIFFANY GREGG and WILLIAM BURR GREGG, Hackensack, N. J., assignors to The Gregg Company, Limited, Hackensack, N. J., a Corporation of New York. Filed Aug. 2, 1916. Serial No. 112,740. 9 Claims. (Cl. 39—88.)



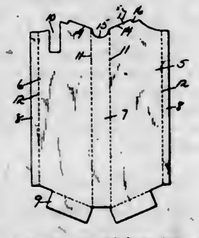
1. In cars, a side-door therefor comprising vertically disposed stake-bars connected together by a bottom rail, and a Z-shaped supporting belt-rail disposed with its outer flange extending downwardly and its inner flange upwardly, the upper ends of the stake-bars having a hinged connection with the belt-rail.

1,348,171. SWITCHING-OVER DEVICE FOR ELECTRICAL LIGHTING INSTALLATIONS FOR RAILWAY-TRAINS AND THE LIKE. HUGO GROB, Zurich, Switzerland. Filed Nov. 9, 1915. Serial No. 60,507. 10 Claims. (Cl. 171—313.)



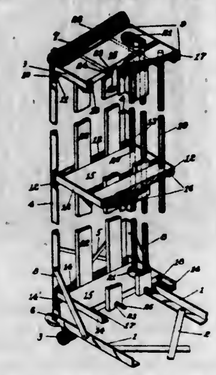
1. In apparatus of the class described, in combination, a generator, a field coil therefor, a substantially constant current resistance connecting one end of said coil to one of the terminals of said generator, a battery connecting said same end to another terminal of said generator, and protective means for disconnecting said battery when a maximum field current is reached.

1,348,172. MAGAZINE FOR FIREARMS. GRANT HAMMOND, New Haven, Conn., assignor of one-third to Alva C. Washburne, Pittsfield, Mass., and one-third to Frederick G. Crane, Dalton, Mass. Filed Feb. 28, 1918. Serial No. 219,591. 1 Claim. (Cl. 42—50.)



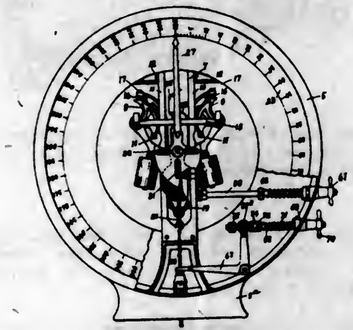
A magazine blank comprising two side sections each having a portion of one end located at an angle to a longitudinal line through said sections, and each angularly disposed end terminating in notches, and said notches terminating in curved portions extending to opposite edges of the blank.

1,348,173. CUT-SOLE RACK. WILLIAM PARKER HAMMOND, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 30, 1915. Serial No. 5,243. 9 Claims. (Cl. 211—14.)



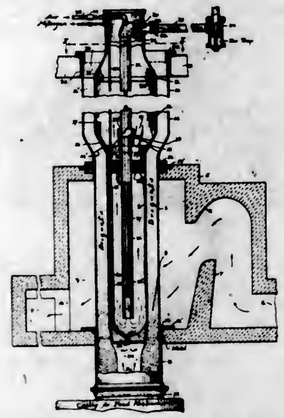
1. A rack comprising a plurality of horizontally extending frames, each having a series of fillers in its plane, said fillers registering across the series of frames, and partition members, each extending transversely across the planes in which said frames and fillers lie, said members lying between the fillers and forming pockets for the reception of articles carried by the rack.

1,348,174. WEIGHING-SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Aug. 14, 1916. Serial No. 114,786. 35 Claims. (Cl. 265—62.)



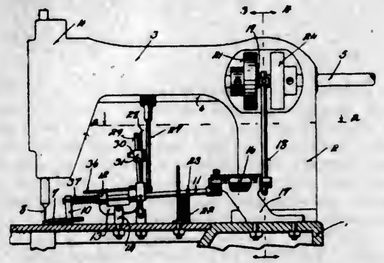
1. In a scale and in combination with the load-offsetting mechanism thereof, a pair of indicator hands, connections for driving said hands from the load-offsetting mechanism, means for locking one of said indicator hands while permitting the movement of the other, and means set in motion simultaneously with the locking means adapted to contact the free hand for returning such hand to zero position after the first-mentioned hand is locked.

1,348,175. FURNACE. CHARLES P. HIDDEN, Providence, R. I., assignor to Nitrogen Products Company, a Corporation of Rhode Island. Filed Jan. 27, 1919. Serial No. 273,456. 20 Claims. (Cl. 23—13.)



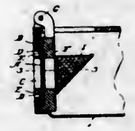
1. A furnace for fixing nitrogen which comprises two concentrically disposed retort sections, one within the other, the common axis of said sections being substantially vertical, means to heat the exterior section, auxiliary means to heat the interior section, means to receive material which descends through the annular space between said sections, said material having the form of a hollow column and said receiving means having provisions for cooling said column both interiorly and exteriorly while preventing adhesion of the charge to any part of the retort during the cooling operation, said cooling provisions including means to direct a relatively cool stream of nitrogen into contact with the lower end of said column.

1,348,176. GLOVE-SEWING MACHINE. FRANK G. HOTKA, Cudahy, Wis. Filed Feb. 17, 1919. Serial No. 277,506. 5 Claims. (Cl. 112—132.)



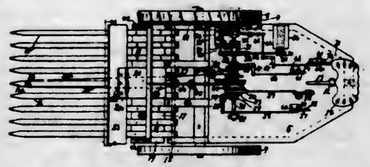
1. In a machine of the class described, means for forming tucks in flexible material comprising a rock shaft, a tucking arm carried by the shaft, means for oscillating the rock shaft on its axis, and means for oscillating the rock shaft in the plane of its axis, said oscillations being simultaneous to swing the tucking arm in two directions at the same time.

1,348,177. LIMITING COMBUSTION OF PICTURE-FILMS. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Aug. 3, 1918. Serial No. 248,164. 2 Claims. (Cl. 88—17.)



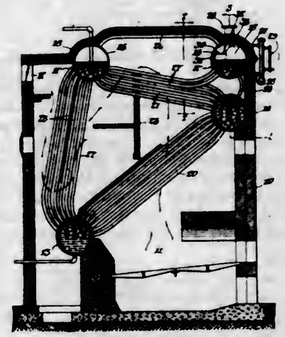
1. In motion picture machines, the combination with a casing having an exposure aperture in its front wall and provided with a door, of a heavy heat conducting frame surrounding said aperture, arranged to be moved to and from the inner face of the wall and provided with a shallow central vertical channel, of spring-pressed bars for holding the perforated marginal portions of the film in contact with the vertical sides of the frame, access to the door side of the film passage being cut off normally by the projecting marginal portion of the frame and the closely fitting door.

1,348,178. HAY-STACKING MACHINE. LAWRENCE KELLY, St. Paul, Minn. Filed Dec. 6, 1919. Serial No. 343,091. 3 Claims. (Cl. 56—27.)



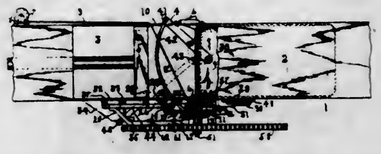
1. In a machine of the kind described, a wheel supported frame, a fork-shaped rake pivoted to the front end of the frame, so as to swing up and down with its forwardly extending tines, a motor on the frame, means for applying the motor to the rake to raise, lower and hold it at various inclinations below and above horizontal position: operative connection between one of the ground wheels and the motor for going backward and forward on the ground; and an ejecting device guided to slide back and forth on the tines of the rake, and operative connection between said ejector and the motor; said ejecting device comprising a head guided to slide on the middle tines of the rake and having an upstanding wing by which to move the load forward and beyond the points of the tines.

1,348,179. STEAM-BOILER. EDGAR KIDWELL, Philadelphia, Pa. Filed Mar. 4, 1919. Serial No. 280,581. 5 Claims. (Cl. 122—297.)



1. A steam-boiler having a continuous main water circulation path and a supplemental water circulation path, said main path including a steam-and-water receptacle, wherein the steam is disengaged from the water, and said supplemental path comprising a steam-and-water-receptacle from which the steam is discharged from the boiler, said latter receptacle being outside the main path of circulation, means whereby a relatively small portion of water is diverted from the main path of circulation and caused to flow into the discharge receptacle, and means located within the heating zone of the furnace whereby a corresponding flow of water from the discharge receptacle back to the main path of circulation is effected, and means for conducting the steam from the steam disengaging receptacle to the steam discharge receptacle.

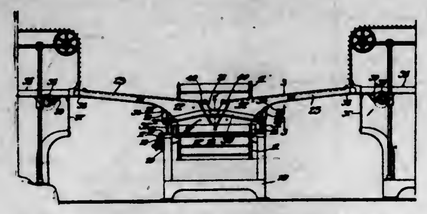
1,348,180. BINDING ATTACHMENT FOR BALING-PRESSES. WILLIAM H. LEAVITT, Wichita Falls, Tex. Filed Sept. 26, 1919. Serial No. 326,453. 4 Claims. (Cl. 100—20.)



1. The combination with a baling-press, of means for placing bale-ties around each bale, twisters for twisting or tying the ends of the bale-ties together, shafts on which the twisters are mounted, wire cutting knives and gears on said shaft, a rack engaging said gears for operating said twisting and cutting members in alternately reverse directions for twisting and severing the wires, and means actuated by the baling-press for imparting intermittent reciprocating motion to said rack.

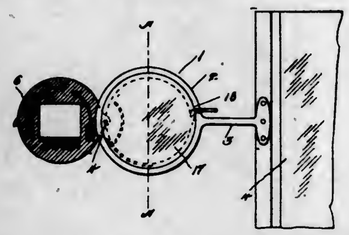
3. The combination with a baling-press, of means for placing wire around each bale, shears for severing the wire into bale-ties, means including a shaft for actuating said shears, a gear wheel on said shaft, a rack for imparting intermittent motion to the gear wheel, and a bracket actuated by the press-plunger to operate said rack.

1,348,181. SPLINT-FEEDING MECHANISM FOR MATCH-MACHINES. MICHAEL PARIDON, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1919. Serial No. 286,183. 7 Claims. (Cl. 144—64.)



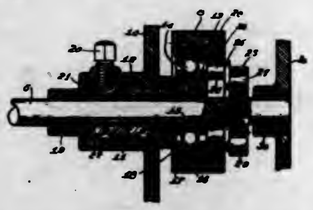
1. In a match machine, the combination with a splint-inserting device and a hopper overlying the same, of two independent splint-feeding structures extending over said hopper from each end of the latter, and means for vibrating said structures longitudinally of the hopper, each of said structures comprising an upwardly and outwardly inclined chamber, means leading to the outer end wall of the chamber for supplying splints thereto, and a stationary member constituting the inclined inner end wall of said chamber.

1,348,182. AUTOMOBILE-SIGNAL. STANLEY M. PONTIER, Philadelphia, Pa. Filed Feb. 17, 1919. Serial No. 277,563. 10 Claims. (Cl. 40—67.)



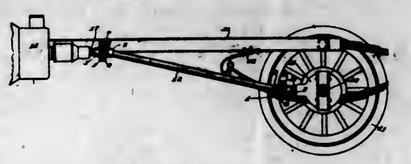
1. A vehicle signal consisting of a plurality of alining sign plates, one of which has an opening to expose a sign therebehind, and a casing in which the plates are mounted.

1,348,183. BELT-TIGHTENER. CHARLES L. RAYFIELD, Chicago, Ill. Filed Mar. 19, 1918. Serial No. 223,257. 2 Claims. (Cl. 64—53.)



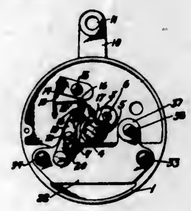
1. The combination of a rotary shaft, an eccentric adjustably thereon, a rotary member journaled on the eccentric and having a series of circular apertures circularly arranged in a lateral face thereof, a disk secured to said shaft and rotatable therewith and having a corresponding series of circular apertures circularly arranged in a lateral face thereof, and connecting members comprising a central portion and pins integral therewith extending laterally on each side thereof adapted to engage said apertures, said pins being offset relatively to each other to allow for the eccentric mounting of said rotary member.

1,348,184. FLEXIBLE COUPLING. CHARLES L. RAYFIELD, Chicago, Ill. Filed Mar. 19, 1918. Serial No. 223,259. 1 Claim. (Cl. 64—96.)



In a device of the class described, the combination of rotary members adapted to rotate about intersecting axes, and a plurality of overlapping circular plate springs of even diameter interposed between and connecting said rotary members, the points of attachment of said spring plates being spaced at equal intervals around said rotary members and separated less than a semicircle, and each spring plate comprising a complete circle only.

1,348,185. INTERRUPTER MECHANISM. WILLIAM H. RICHTER, Philadelphia, Pa., assignor to Arthur Atwater Kent, Ardmore, Pa. Filed June 26, 1919. Serial No. 306,850. 13 Claims. (Cl. 200—30.)

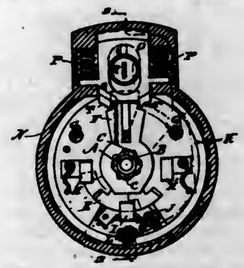


11. Interrupter structure comprising relatively movable interrupter contacts, a base member carrying one of said contacts, a housing of insulating material carried upon said base member, a condenser within said housing, and a second interrupter contact supported upon said housing.

1,348,186. FOOD PRODUCT AND PROCESS OF MAKING SAME. JOSEPH F. RUMSEY, Oklahoma, Okla. Filed Apr. 19, 1917. Serial No. 163,270. 3 Claims. (Cl. 99—10.)

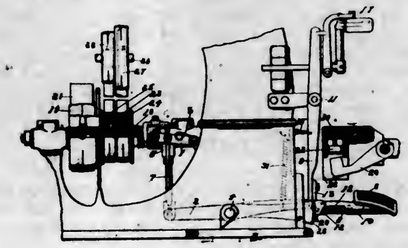
1. A process of making a food product which comprises making a dough comprising cotton seed flour, and cereal flour, baking the same, comminuting the product, moistening the product, making the same into cakes and again baking.

1,348,187. IGNITION-LOCK. ALBERT W. SARGESSER, Granite City, Ill., assignor to Liberty Auto Lock Co., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 11, 1919. Serial No. 323,056. 4 Claims. (Cl. 200—44.)



2. A device of the character described, comprising an ignition switch having contacts and operative wires, a key-controlled automatic lock effecting locking control of said switch when the switch is open, a guard plate operated by said switch and having a key opening registering with said automatic lock when the switch is open, but covering said automatic lock when the switch is closing, substantially as described.

1,348,188. TREADLE MECHANISM. CYRIL FELLS STACEY, London, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 13, 1916. Serial No. 136,768. 14 Claims. (Cl. 74—81.)



1. In a machine of the class described, a driver operatively connected to a source of power, driven devices adapted to be operated at different speeds from the driver, speed controlling mechanism comprising a speed controlling element and operative connections between said element and said driver, and locking means for said speed controlling element organized to hold said element in speed controlling position and to be rendered operative or inoperative by rocking movements of said element.

1,348,189. SPROCKET-CHAIN. SAMUEL V. TENCH, Wilkes-Barre, Pa. Filed May 19, 1919. Serial No. 298,244. 3 Claims. (Cl. 74—43.)



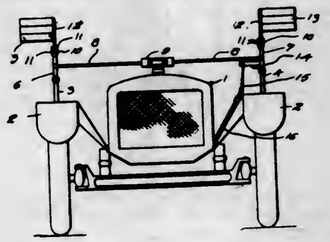
1. In a drive or conveyer chain, a rigid integral link, comprising side bars, a cross bar to connect the side bars near one end thereof, the cross bar having oppositely flattened faces; and a hook or coupling to connect the opposite ends of the side bars, the hook or coupling having a cylindrical bearing the cross bar being of sufficient width to easily pass through the opening between the bill and the shank of the hook; a cylindrical bushing of greater diameter than the width of the opening between the bill and the shank of the hook, and insertible endwise into the bearing through one end thereof, independently of the cross bar, for free rotation in the bearing, the bushing having formed longitudinally thereof a radial slot with flattened side walls and of a width substantially as great as the width of the opening between the bill and shank of the hook, to register therewith and form a seat for the cross bar of the adjacent link, the latter adapted to be freely inserted into, and removed from its seat in the bushing, through the opening between the bill and shank of the hook and rotatable with the bushing, to interpose that part of the bushing forming the bottom wall of the slot, between the inner face of the cross bar and the bearing in the hook, the flattened sides of the cross bar confronting the flattened side walls of the bushing, the cross bar being loosely seated in the bushing to permit the ready disengagement of the cross bar from the bushing and its removal through the opening between the bill and shank of the hook, while the bushing lies in the bearing in the hook, and thereby enable the substitution of a new bushing.

1,348,190. CHUCK FOR BUTTON-CUTTING MACHINES. GEORGE E. WAHL, Chicago, Ill. Filed May 12, 1919. Serial No. 296,605. 2 Claims. (Cl. 79—16.)



1. A device of the kind described comprising a chuck having a slotted end, a tubular cutting tool having a slotted end and a hollow cylindrical member adapted to slide into the said end of the chuck and over said end of the tool, means for compressing the slotted end of the chuck to grip said member, and means for expanding the tool to bring it into frictional engagement with said member.

1,348,191. COURSE-INDICATOR. LENNOX G. WEAVER, Portland, Oreg. Filed Apr. 9, 1919. Serial No. 288,767. 1 Claim. (Cl. 116—52.)



A course indicator comprising supporting brackets secured to an automobile, supporting members hinged to the brackets, means connecting the supporting members so as to cause them to move in unison, cups formed upon the upper ends of the supporting members and bifurcated to form gripping fingers, stems located within said cups and held therein by the fingers, signaling members secured to the stems, and means connected to one of the supporting members for causing said supporting members to move laterally of the automobile in either direction.

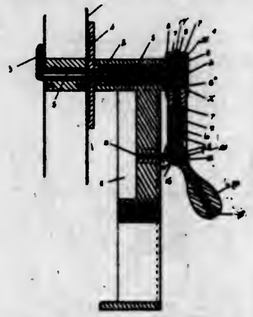
1,348,192. TRACTOR. ARTHUR B. WEBB, Watertown, Wis., assignor to William N. Smith, Chicago, Ill. Filed Sept. 22, 1919. Serial No. 325,593. 1 Claim. (Cl. 180—19.)



A tractor including a pair of laterally spaced apart coaxial vehicle wheels; a spur gear co-axial with said wheels and in driving relation to one of them; a spur pinion in mesh with said spur gear; a friction disk coaxial with and fixed with respect to said pinion; a second friction disk at right angles to and having its periphery in frictional engagement with a face of the aforesaid friction disk; an engine; a shaft driven by the engine and upon which the second aforesaid friction disk is splined to turn therewith while movable therealong; a frame upon which the engine is mounted; a pair of handle bars secured to and extending rearwardly from said frame; a bearing extending longitudinally of the tractor

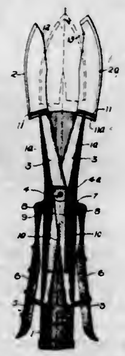
and supported at the rear ends of said handle bars; a hand controlled shaft extending forwardly from and journaled at its rear end in said bearing and provided upon the rear side of said bearing with a hand crank whereby it may be turned; a rod extending longitudinally of the tractor and supported upon the aforesaid frame; a shifter for the second aforesaid friction disk slidable upon said rod to slide this disk upon the engine shaft, said hand controlled shaft having its forward end in threaded engagement with said shifter whereby the second aforesaid disk may be moved toward or from the center of the first aforesaid disk.

1,348,193. REELING APPARATUS. WILLIAM WENDERHOLD, New York, N. Y., assignor to Cru Patents Corporation, a Corporation of New York. Filed Dec. 13, 1917. Serial No. 206,948. 3 Claims. (Cl. 74—33.)



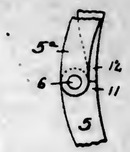
1. The combination with a part to be rotated, of a crank arm slidably mounted around the part to be driven, and provided with a movable member therein, a pivotally mounted handle for said crank arm, means for maintaining said movable member in yielding contact with said handle, means for shifting said movable member upon pivotal movement of said handle to cause said member to brake the part to be rotated when said handle is in one position, and means for establishing a positive connection between said crank arm and said part to be rotated when said handle is in a second position.

1,348,194. TROCAR. WILLIAM BURTON WESCOTT, Wellesley, Mass., assignor to Kalmus, Comstock & Westcott, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Nov. 28, 1919. Serial No. 341,253. 10 Claims. (Cl. 128—347.)



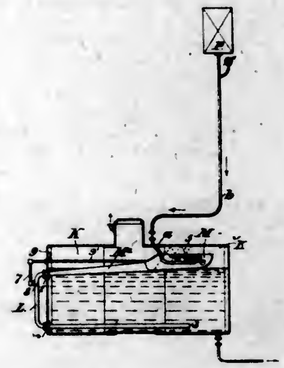
1. A trocar comprising a cannula, a perforator blade at the forward end of the cannula divided into two sections, and a pair of levers pivoted to the cannula, the two blade sections being fixed respectively to the forward ends of the two levers.

1,348,195. DEVICE FOR TRANSFERRING AND DOUBLING KNITTED WEBS. LOUIS N. D. WILLIAMS, Ogontz, Pa. Filed Jan. 22, 1918. Serial No. 213,197. 4 Claims. (Cl. 66—32.)



1. In a device for doubling the stitches of a knitted web, the combination of two sets of stitch-receiving points, a carrier for each set, and a hinge for connecting said carriers so that one may be folded over the other, said hing comprising laterally adjustable blocks and hinge plates adjustable longitudinally on said blocks, whereby either adjustment can be effected independently of and without affecting the other.

1,348,196. APPARATUS FOR TREATING FEED-WATER. IGNAC PIOTR WINER, Warsaw, Russian Poland. Filed Mar. 11, 1916. Serial No. 83,612. 1 Claim. (Cl. 122—433.)

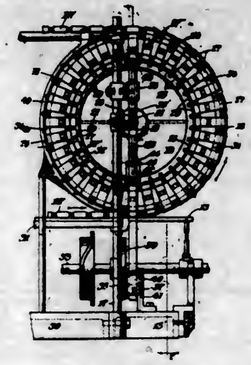


The combination of a steam boiler, a tank disposed therein and comprising an open bowl projecting above the normal water line into the steam space and an inclined tube connected with the lower part of said bowl and extending below said water line through the shell of the boiler to the exterior thereof, a pipe connected with the projected end of said tube, extending downward and discharging into the water space of the boiler, a feed water supply pipe, a sprayer disposed in said open bowl, connected with said supply pipe and comprising upward spraying nozzles operative to project the feed water into contact with the steam of the steam space, said bowl being operative to catch the returned sprayed feed water and condensed steam commingled therewith and hold it under the reduced pressure due to the steam condensation until it attains the temperature of the steam, a pipe connected with said bowl above the normal water level thereof and extended to the exterior of the boiler, and a water gage connected with the first and last named pipes for determining the water level within the bowl.

1,348,197. MACHINE FOR MAKING BOXES. CHARLES F. WRIGHT, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 23, 1919. Serial No. 325,798. 12 Claims. (Cl. 93—36.)

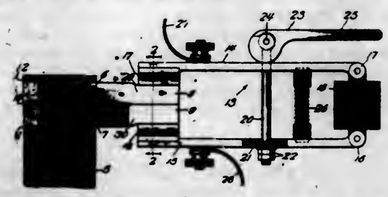
1. In a box-likemaking machine, the combination with a traveling box-conveyer, of a series of pressing elements

arranged adjacent the path of travel of the conveyer and movable concurrently therewith, and means for actuating



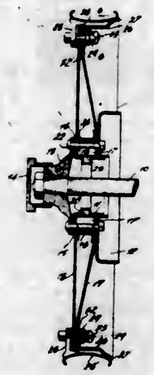
said elements to project and retract them at intervals into and from clamping relation with the walls of the boxes adjacent thereto within the conveyer.

1,348,198. METHOD OF BUILDING INDUCTOR ELEMENTS FOR DYNAMO-ELECTRIC MACHINES. VINCENT G. APPLE, Dayton, Ohio. Filed May 20, 1918. Serial No. 235,689. 5 Claims. (Cl. 171—206.)



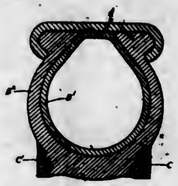
1. The method of making inductors for dynamo electric machines which consists in separating the inducing conductor bars by insulation; drawing the ends of the bars together out of alinement with the body part of one or both and welding the ends at contacting surface to produce molecular continuity through the joined ends.

1,348,199. METAL WHEEL. WILLIAM BARBER, Brooklyn, N. Y. Filed Feb. 18, 1919. Serial No. 277,806. 4 Claims. (Cl. 21—69.)



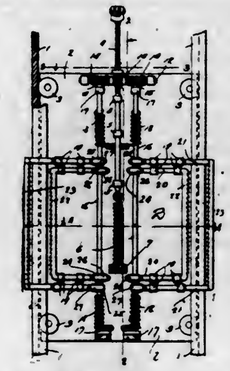
4. In a metal wheel, a hub sleeve extending completely through the center thereof and provided with an upturned flange on the exterior surface thereof to form one side of a circular channel, a pair of sheet metal disks fitting into said channel and positively secured therein, a spreading device interposed between said disks at the central portion thereof, the peripheral edges of said disks being brought together into contact with each other and secured together substantially as shown and described.

1,348,200. MANUFACTURE OF TIRES FOR THE WHEELS OF ROAD-VEHICLES. WILLIAM WORBY BEAUMONT, Westminster, London, England. Filed Apr. 28, 1920. Serial No. 377,245. 1 Claim. (Cl. 152—14.)



For use on the wheels of road-vehicles, a tire composed of rubber of different degrees of hardness for the main portion and for the edges of the tread, integrally combined; the former being composed of material possessing good load-carrying qualities, and the latter, composed of tough and comparatively soft rubber adapted to yield to the load and to maintain the edges of the tread in a sharply angular condition.

1,348,201. SAFETY MECHANISM FOR ELEVATORS. CARL POSEY BEAVER, Ducktown, Tenn. Filed Oct. 20, 1919. Serial No. 331,822. 8 Claims. (Cl. 187—86.)



1. A safety mechanism for elevators, comprising a longitudinally movable rack bar, a pair of shafts paralleling said rack bar, means gearing said rack bar to the shafts, to rotate the latter, clutch members arranged to grip the elevator rails, and means operated by the rotation of the shafts to close the clutch members over the rails.

1,348,202. APPLICATION OF POWER. BYRON L. BEEBE, Wellington, Kans. Filed July 8, 1919. Serial No. 309,271. 2 Claims. (Cl. 74—7.)



1. In combination, a revolvable shaft, a toothed wheel and a hub rigidly carried thereby; an eccentric disk ro-

tatably mounted upon said hub and means for controlling and fixing the position of said disk; an outer wheel enveloping the toothed wheel, a drum rigidly attached to said outer wheel; roller members arranged intermediate the inner face of said drum and the eccentric disk; a plurality of roller members arranged in said outer wheel, one for each tooth of said toothed wheel, all substantially as specified and for the purposes set forth.

1,348,203. SPRING TENSION FOR POWER OR HAND PUMPS. CARL F. BRANDENBERGER, Fort Madison, Iowa. Filed Feb. 12, 1919. Serial No. 276,541. 1 Claim. (Cl. 74—48.)



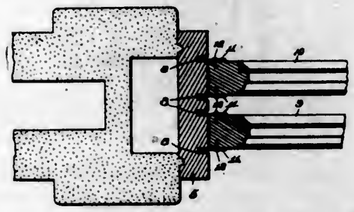
In a device of the class described, a cylindrical casing; a cap threaded on one end of the casing; a plunger slidable in the cap and provided at its inner end with a head located in the casing; a socket threaded on the outer end of the plunger and having spaced lower arms; a compression spring surrounding the plunger within the casing and abutting at its ends against the cap and the head, the spring serving to hold the socket normally in engagement with the cap, the upper end of the casing being enlarged and tapered to facilitate the insertion of the plunger and the head into the casing and being bifurcated to form upper arms which are through-shaped in cross-section; a connecting element uniting the upper arms; and a connecting element uniting the lower arms.

1,348,204. BULLET-PROOF ARMOR. GUY OTIS BREWSTER, Dover, N. J. Filed Aug. 13, 1917. Serial No. 186,034. 21 Claims. (Cl. 89—36.)



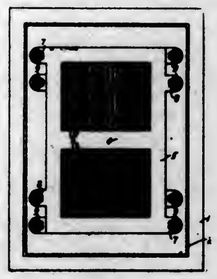
18. A bullet proof armor comprising a frame adapted to be readily put on or taken off, and a head and body protecting bullet proof armor carried by the front of said frame, and a leg protecting bullet proof armor carried by said body protecting armor, pads carried by said frame and interposed between said frame and the body, similar pads carried by said leg protecting armor, said pads being positioned to absorb and distribute the shock of impact of a projectile against said armor to non-sensitive and non-vital parts of the body.

1,348,205. COMBINATION METAL WEATHER-STRIP AND GUIDE FOR WINDOW-SASHES. ROBERT S. CADE, Canton, Ohio. Filed Jan. 3, 1919. Serial No. 269,413. 2 Claims. (Cl. 20—69.)



1. The combination with a window frame including a pair of sliding sash sections, of relative narrow grooves being formed in the opposed faces of the vertical members of the frame, one of said grooves being disposed at opposite sides of each of said sash sections and having their inner walls in alinement with the corresponding faces of the latter, and flat metallic strips secured on opposite sides of each of said sash sections and projecting into said grooves in contacting relation with the inner walls thereof, said metallic strips having their edge portions within the grooves formed to provide folded portions disposed in contacting relation with the outer walls of the latter.

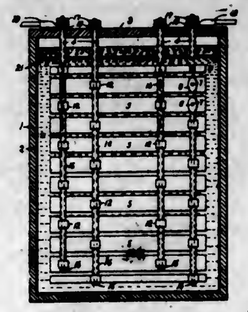
1,348,206. PLATE FOR ELECTROLYTIC CELLS. LEWIS W. CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 4, 1917. Serial No. 159,656. 7 Claims. (Cl. 175—318.)



1. An electrode for electrolytic condensers, lightning arresters, rectifiers and the like comprising a frame of relatively thick film-forming material provided with an opening and a plurality of relatively thin strips of film-forming material extending across the opening with their ends imbedded in opposite sides of the frame.

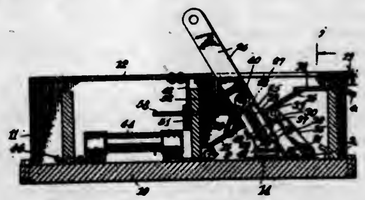
1,348,207. ELECTROLYTIC CELL. LEWIS W. CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 4, 1917. Serial No. 159,657. 7 Claims. (Cl. 175—318.)

7. An electrolytic cell comprising a container of film-forming material, an electrolyte therein, and a plurality of electrodes of film-forming material disposed within the electrolyte, with alternate electrodes connected to ter-



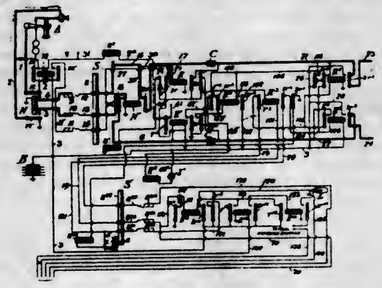
minals of opposite polarity, each outer electrode having a supficial area of substantially one-half of that of an intermediate electrode.

1,348,208. CIRCUIT-CLOSER. JOHN D. CLAY, Port Washington, N. Y. Filed Apr. 27, 1917. Serial No. 164,828. 6 Claims. (Cl. 200—73.)



1. In a switch of the class described, a movable support; a circuit closing element carried thereby; terminals with which said circuit closing element is adapted to engage; a spring operatively connected with said support and tending to move the same in a direction to open the circuit controlled by the switch; a movable switch closing member; toggle mechanism adapted to hold the switch in a closed condition; means independent of said toggle mechanism through which said support may be moved by said switch closing member to close the circuit controlled by the switch; and means operatively connected with said switch closing member for breaking said toggle mechanism to release the switch and permit said spring to open the same.

1,348,209. TELEPHONE-EXCHANGE SYSTEM. EDWARD E. CLEMENT, Washington, D. C., assignor, by mesne assignments, to James R. Garfield, trustee, Cleveland, Ohio. Filed July 15, 1907. Serial No. 383,874. 7 Claims. (Cl. 179—27.)



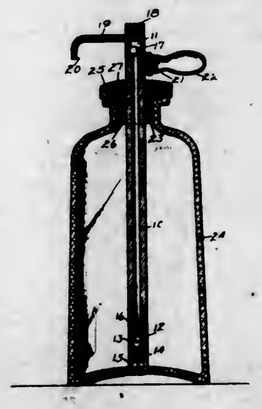
3. In a telephone exchange system, a number of subscribers' lines, a number of trunks less than the number of lines, each trunk terminating at one end in a primary selector switch and at the other end in a first selector switch, a plurality of operator's circuits and apparatus, each including a telephone set and a sending device, and an automatic switch associated with each of said trunks and containing terminals of a number of said operator's circuits, together with driving means for the primary selector switches controlled by the calling subscribers, and driving means for the operator's switches controlled by the primary selector trunks, substantially as described.

1,348,210. CASING FOR METAL THERMOMETERS AND THE LIKE. EDWARD P. COLE, Chicago, Ill. Filed Aug. 2, 1919. Serial No. 314,939. 8 Claims. (Cl. 73—52.)



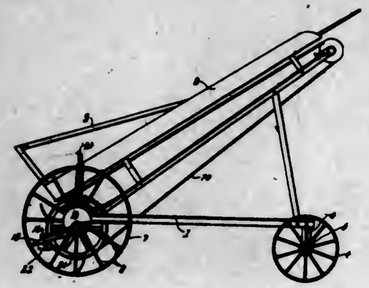
1. A casing comprising a box member formed with a bottom and side and end members, one pair of opposite members being longer than the other, a dial member formed with parallel projecting folds arranged to fit over said longer members, and a cover frame formed with a display opening and having marginal flanges arranged to receive said dial member.

1,348,211. FOUNTAIN-PEN-FILLING DEVICE. ALONZO TOWNSEND CROSS, Providence, R. I. Filed Apr. 11, 1919. Serial No. 289,382. 3 Claims. (Cl. 128—231.)



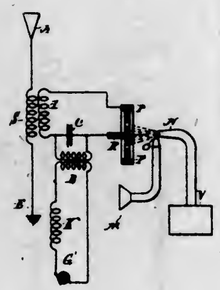
1. A fluid dispenser for bottles consisting of a dispensing tube having intake and outlet valves and provided with a discharge spout, a hand compressible bulb connected with said tube and in communication with its bore between said valves, a bottle closing plug around and shiftable along said tube, and a cap around the tube nad rotatable on the plug said cap and said plug having openings parallel to the axis of the tube and movable into and out of registry with one another by virtue of rotation of the cap.

1,348,212. HAY-LOADER. ARTHUR E. DANKE, Neenah, Wis., assignor to Sterling Manufacturing Company, Sterling, Ill., a Corporation. Filed Nov. 7, 1918. Serial No. 261,489. 6 Claims. (Cl. 56—352.)



1. The combination with the rear axle and wheels of a hay loader, of a tine carrying drum secured to the axle, eccentrics for raising and lowering the drum and means for clutching the wheels to the axle.

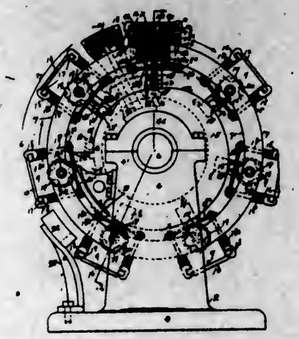
1,348,213. RADIOTELEPHONE SYSTEM. LEE DE FOREST, New York, N. Y., assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 26, 1916. Serial No. 117,034. 2 Claims. (Cl. 250—6.)



1. In a radio transmitting system, an oscillating circuit including a spark gap therein comprising separated electrodes, means for directing a continuous jet of air against one of said electrodes, and means controlled by sound waves for directing said jet of air against the other of said electrodes.

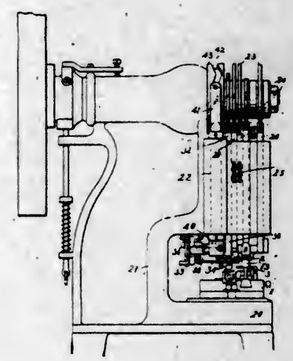
1,348,214. MACHINE FOR MAKING COMPOSITION PLUGS. IRA E. FARR, Watertown, N. Y., assignor of one-half to Mathew M. Bagg, Watertown, N. Y. Filed July 5, 1919. Serial No. 308,758. 10 Claims. (Cl. 92—59.)

1. A machine for making composition plugs, including a frame, a rotatable drum journaled in said frame, said drum having a plurality of radial slots, a plurality of molds arranged in pairs mounted on the periphery of said drum in line with said slots, plungers reciprocatable in said molds, a pair of similar cams carried by said frame,



and means connecting said plungers with said cams for effecting the compression strokes of the cams.

1,348,215. METAL-BENDING MACHINE. SAMUEL H. GIBSON, Cleveland, Ohio, assignor to The Fanner Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 30, 1917. Serial No. 165,359. 13 Claims. (Cl. 153—13.)



1: In a machine of the character described and in combination a bed die having a recess formed therein, oppositely disposed movable members normally located above and at the sides of the recess in the bed die, the front faces of said movable members forming continuations of the sides of the recess in the bed die and serving as parts of said die during the initial bending of a strip of metal, said movable members being adapted to receive and support a strip of metal to be formed, a forming die mounted above said movable members and adapted to descend to press the strip of metal between said movable members and into the recess in the bed die, means for operating the said movable members to reciprocate them across the recess in the bed die thereby to fold the said strip of metal about the forming die and a heading die mounted above the forming die and adapted to descend and press the metal strip which has been folded about the forming die.

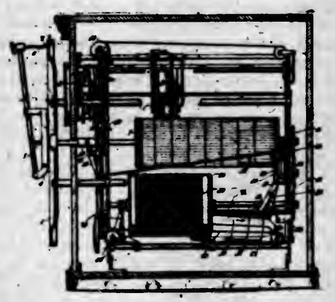
1,348,216. JOINTED DOLL. CHRISTOPH A. GIEBELER-WANKE, New York, N. Y. Filed July 26, 1918. Serial No. 246,817. 8 Claims. (Cl. 46—40.)

1. In a doll, the combination with a body portion having limb engagement sockets, of limb members, each comprising a pair of tubular members adapted to be swung relatively to each other, said members being provided at their adjacent ends with coöperating balls and sockets, and opposed inclined surfaces intersecting the surfaces of said balls and said sockets, the center of the inner edges of said inclined surfaces being substantially central of the longitudinal length of said inclined surfaces, said balls being each provided with a longitudinal bore and a radial slot extending from said bore to the surface of said member and unobstructed throughout the longitudinal length of said member, said slot extending unobstructed from said centers of the inner edges of said inclined surfaces, said



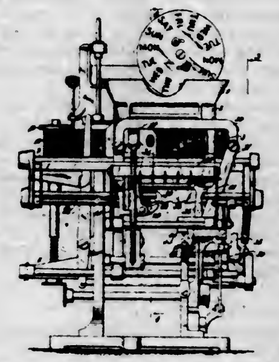
limb members being provided at one end with a ball joint member engaging the sockets of said body portion, an extremity member at the other end of said limb members, and connection means extending from said extremity member through said tubular members to a point of attachment within said body portion, a portion of said connection means adapted to be disposed substantially at right angles to said inclined surfaces in the engagement position thereof, and adjacent the centers of the inner edges thereof to exert a positive force to hold said surfaces in engagement with each other.

1,348,217. RECORDER. HARRY T. GOSS, Rutherford, N. J., and JAMES W. BRYCE, Binghamton, N. Y. Filed May 8, 1919. Serial No. 295,764. 9 Claims. (Cl. 234—46.)



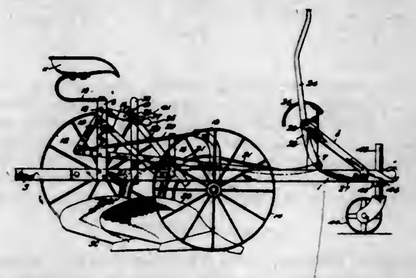
1. In a time recorder the combination with the means for operating the same to print the time of registry by workmen, of a record sheet carrier for recording such impressions, and a finder control sheet carrier, the record sheet carrier being longitudinally movable, a row of punches over the finder control sheet, spring seated pins passing through the punches, means movable over the entire row of punches and adapted to normally operate the last one of the row, a connection between the same and the machine operating means for effecting such movement and that of the record sheet carrier, a stop carried by said punch operating means and a connection between the same and the intermediate moving mechanism adapted to encounter any punch pin which may pass through a previously punched perforation in the finder control sheet and to thereby disconnect the moving means and lock the punch operating means and the record sheet carrier at points determined by the pin which has passed through a hole.

1,348,218. TIME-RECORDER. HARRY T. GOSS, Rutherford, N. J., and JAMES W. BRYCE, Binghamton, N. Y. Filed May 8, 1919. Serial No. 295,765. 5 Claims. (Cl. 234—43.)



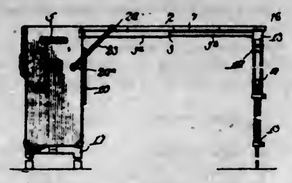
1. In a time-recording machine for workmen's cards, the combination with the means for operating the same and a card receiver movable transversely to the impression point thereby, of a row of punches carried by or with the receiver, a series of spring-actuated pins passing through said punches, a pivoted stationary arm and means controlled by its movement when encountered by a pin which has passed through a previously punched hole in a card to arrest the card-receiver at a point with reference to the impression point determined by the position of the punched hole in the card.

1,348,219. PLOW. AMMON K. JONES, Neosho, Mo. Filed Apr. 26, 1919. Serial No. 292,811. 6 Claims. (Cl. 97—36.)



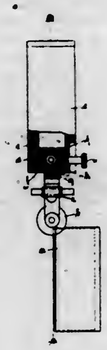
1. The combination with a wheeled frame having a rigid cross bar at its front end, a second cross bar mounted for rocking movement in the sides of the frame in rear of and adjacent the rigid cross bar, flexible connections between the said cross bars, plows secured rigidly at their front ends to the said rear cross bar, and means on the frame connected with the plows to raise or lower the same.

1,348,220. COMBINED CABINET AND TABLE. THOMAS H. E. HATHAWAY, Chicago, Ill. Filed July 16, 1919. Serial No. 311,193. 3 Claims. (Cl. 190—12.)



1. A camper's cabinet comprising, in combination, a casing open at its upper end, a table comprising a plurality of leaves hinged together so as to be capable of being folded either into a compact stack or in extended relation, one end leaf being connected to the upper edge of one side wall of the case and adapted when the leaves are in compact relation to close the upper end of the case and also serve as a support for the remaining leaves, and means cooperating with the case to support the leaves of the table in extended relation, said means including an arm detachably connected with the case at the upper end thereof and having a supporting leg at its free end, said case being made of such height that while in upright or normal position it will, together with said leg, support the table at a substantial distance above the ground, and the case being in the extended relation of said leaves open at its upper end so as to be readily accessible.

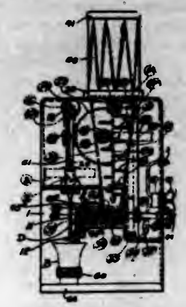
1,348,221. MACHINE FOR SKIVING LEATHER. CARL ALBERT HIRTH, Cannstatt, near Stuttgart, Germany, assignor to Fortuna-Werke Albert Hirth, Cannstatt, Germany. Filed Sept. 8, 1911. Serial No. 648,346. 6 Claims. (Cl. 69—9.5.)



1. A machine for skiving leather, comprising a ring-knife, a pressure-member for the work fed thereto, having a work contacting surface conforming to the cutting edge of said knife, and an adjustable carrier for said pressure-member having an axis of adjustment located in the surface of contact between such member and the work and at a lateral edge of said surface of contact.

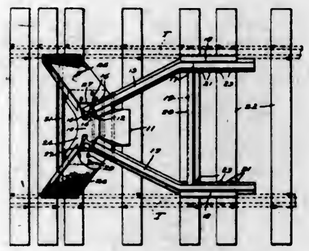
1,348,222. DRINK MIXER AND DISPENSER. ANDREW E. HOLMES, New York, N. Y. Filed Apr. 15, 1920. Serial No. 374,133. 6 Claims. (Cl. 259—24.)

1. A device of the character described, the combination of a revoluble spindle for mixing drinks, motor mechanism for actuating the spindle, means controllable at the will of the operator for throwing said motor mechanism into action in order to cause the spindle to mix the drink, a dispensing device connected with said motor mechanism and driven thereby for dispensing a measured amount of material in the form of a loose powder during the time the drink is being mixed, and mechanism connected with



said motor mechanism and controllable by movements thereof for automatically regulating the discharge of said powder and for throwing said motor mechanism out of action when the mixing of the drink is finished.

1,348,223. BUMPING-POST FOR FREIGHT-CARS. ELMER KEEDLER, Chicago, Ill., assignor to The Mechanical Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 14, 1919. Serial No. 337,963. 10 Claims. (Cl. 104—254.)



1. In a bumping post for freight cars and the like adapted for insertion intermediate the rails of the track, a bumping element embodying a pair of downwardly and rearwardly extending portions, a pair of angularly disposed supports having their lower ends shaped to conform to the shape of the flanges of the track rails and secured thereto and their upper ends secured to said downwardly extending portions, downwardly and forwardly extending braces secured to said bumping element and said track rails the point of contact of said supports with said flanges being on an arc having as its center the point of connection of said braces to said track rails and passing through said bumping element.

2. In a bumping post for freight cars and the like, adapted for insertion intermediate the rails of the track, a bumping element embodying a pair of downwardly extending portions, a pair of angularly disposed supports having their lower ends shaped to conform to the shape of the flanges of the track rails and secured thereto and their upper ends secured to said downwardly extending portions, said downwardly extending portions being provided with shoulders abutting the upper ends of said supports, downwardly and forwardly extending braces secured to said bumping element and said track rails the point of contact of said supports with said flanges being on an arc having as its center the point of connection of said braces to said track rails and passing through said bumping element.

3. In a bumping post for freight cars and the like adapted for insertion intermediate the rails of the track, a bumping element embodying a pair of downwardly extending portions, a pair of angularly disposed supports having their lower ends shaped to conform to the shape of the flanges of the track rails and secured thereto and their upper ends secured to said downwardly extending portions, said downwardly extending portions being shaped to conform to the shape of said supports and providing shoulders abutting the upper ends thereof, downwardly and forwardly extending braces secured to said bumping element and said track rails the point of contact of said supports with said flanges being on an arc having as its center the point of connection of said braces to said track rails and passing through said bumping element.

4. In a bumping post for freight cars and the like adapted for insertion intermediate the rails of the track, a bumping element, a bracing member for said bumping element secured to said bumping element and to the tracks and a support for said bumping element engaging the flange of the track with its lower end and abutting the bumping element with its upper end, the point of contact of said support with said flange being on an arc having as its center the point of connection of said bracing member to said tracks and passing through said bumping element.

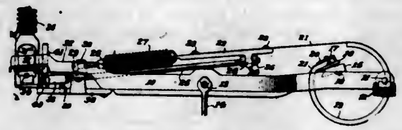
5. In a bumping post for freight cars and the like adapted for insertion intermediate the rails of the track, a bumping element embodying a pair of downwardly extending portions, a pair of forwardly diverging braces secured at their upper ends to said bumping post and at their lower ends to the rails of the track, and a pair of angularly disposed supports having their lower ends engaging the flanges of the rails and their upper ends abutting said downwardly extending portions and secured thereto, the point of contact of said supports with the flanges of the rails being on an arc having as its center the point of connection of said forwardly diverging braces with the rails of the track and extending through said bumping element.

1,348,224. TOY GRENADE. WALTER DEWITT KEMP, New York, N. Y. Filed July 11, 1919. Serial No. 310,108. 7 Claims. (Cl. 46—46.)



1. An unrestrained hand ball, comprising a sphere and means in combination therewith for producing noise and emitting smoke upon concussion of a predetermined point on the surface of the ball with a solid surface.

1,348,225. THERMOSTATIC DEVICE FOR SCALES. BERT W. KING, Detroit, Mich., assignor to Detroit Automatic Scale Company, Detroit, Mich., a Corporation of Indiana. Filed Apr. 30, 1919. Serial No. 293,738. 12 Claims. (Cl. 265—69.)



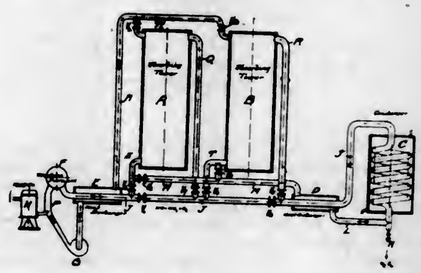
1. In a scale, in combination, a lever, a fulcrum therefor, means carried by the lever for enabling the goods to be weighed to rock the lever on said fulcrum, a counterbalancing spring, a connection between the spring and the lever, a temperature-responsive member in the form of an open ring arranged in the plane of the lever's movement, having one end mounted on the lever, means connecting the other end of the temperature-responsive member to the said spring connection to shift the same as the temperature varies and including a spring adapted to prevent shifting of said spring connection by the weight of the goods being weighed.

1,348,226. SHUT-OFF DEVICE FOR CARBURETERS AND THE LIKE. GEORGE E. KIPP, Niverville, N. Y., assignor of one-fourth to Robert J. Kipp, one-fourth to Charles H. Winslow, and one-fourth to Paul T. Winslow, Niverville, N. Y. Filed Feb. 13, 1920. Serial No. 358,473. 2 Claims. (Cl. 137—92.)



1. The combination of a valve casing, a valve therein having its stem projecting beyond the casing, a latch pivoted on the casing and extending across and bearing on the end of the valve stem, a socket in the valve casing having an open outer end and having an opening through its top, and a fuse wire for normally holding the valve in one position having its lower end extending through the opening in the top of the socket and provided with a stop fitting closely in the socket, the upper end of the fuse engaging the free end of the latch and provided with a stop bearing upon the upper side of the latch.

1,348,227. PROCESS FOR THE ABSORPTION OF NITROUS GASES. JENS LASSEN LA COUR, Christiania, Norway, assignor to Norsk Hydro-elektrisk Kvaelstofaktieselskab, Christiania, Norway. Filed Oct. 22, 1918. Serial No. 259,294. 5 Claims. (Cl. 23—13.)

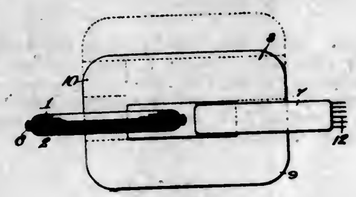


1. The process of absorbing nitrous gases, which comprises condensing a substantial portion of the gases from an electric furnace for the production of nitrogen compounds and re-heating the residual uncondensed nitrogen oxid gases to absorbing temperature, and absorbing said gases in dry bases at a raised temperature.

1,348,228. METHOD OF AND MEANS FOR VULCANIZING RUBBER TIRES. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 11, 1916. Serial No. 136,247. Renewed Jan. 8, 1920. Serial No. 350,064. 7 Claims. (Cl. 18—6.)

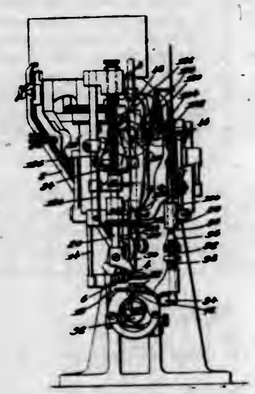
1. The method of vulcanizing which consists in applying the article to be vulcanized to a forming core and

inclosing the article and forming core within a metal mold, then threading the core of an electric transformer through the mold and through the primary coil of the



transformer, whereby the mold and forming core become the secondary of the transformer, and finally supplying current to the primary coil of the transformer.

1,348,229. BUTTON-ATTACHING MACHINE. BERNARD T. LEVEQUE, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 26, 1918. Serial No. 219,315. 16 Claims. (Cl. 112—108.)

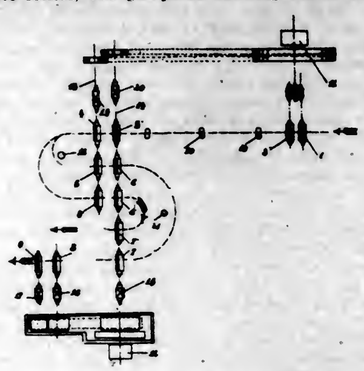


1. A sewing machine having, in combination, stitch forming mechanism including a uniformly reciprocating needle, mechanism for actuating the same to sew a predetermined group of stitches in each of a succession of sewing cycles, and mechanism for automatically shifting the work during a reciprocation of the needle between successive cycles to secure an unstitched space between successive groups of stitches.

6. A sewing machine having, in combination, stitch forming mechanism comprising a reciprocating needle and a loop taker, and mechanism for preventing the taking of the needle loop by the loop taker and for spacing the work after a predetermined series of stitch forming cycles.

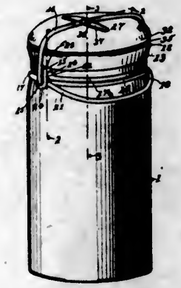
1,348,230. MILL-TRAIN FOR THE MANUFACTURE OF SMALL AND MEDIUM IRON BARS. RAYMOND LINARD, Ougreé, Belgium. Filed Mar. 22, 1919. Serial No. 284,386. 3 Claims. (Cl. 80—35.)

3. A semi-continuous mill train comprising two motors, two, two-high sets of roughing rollers and a first and second pair of intermediate rollers actuated by one of said motors, all said rollers working continuously, a conveyer for bringing the roughed bar to the first pair of intermediate rollers, another pair of intermediate rollers duplicating the aforesaid second pair of intermediate rollers, two groups of finishing rollers actuated



by the second motor, one of these groups being so arranged as to admit of being also alternately actuated by the first motor.

1,348,231. GLASS VESSEL. GEORGE F. MCDONNELL, Charleston, and JOHN JOSEPH DANDOY, Dunbar, W. Va. Filed Feb. 13, 1919. Serial No. 276,767. 2 Claims. (Cl. 215—88.)

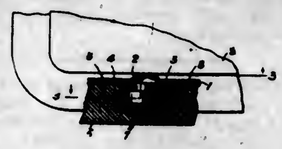


1. In a jar of the character described, the combination of a body provided with a wide mouth having an annular thickened glass ring at said mouth integral with said body, opposite downwardly open recesses extending upwardly into said thickened glass ring, said recesses contracting toward their upper ends and open radially outward, and a bead integral with said body located below and slightly spaced from the lower edge of said annular thickened glass ring forming annular spaces at opposite sides of said body between said annular thickened glass ring and said bead, the bottoms of said annular spaces being concentric with the axis of said body, forming guiding channels concentric with said axis, said guiding channels merging into said recesses to guide the inwardly presented inwardly pressing ends of a wire structure received against said bottoms, in said annular spaces about said body and into said recesses, whereby said upwardly contracting walls of said recesses hold said inwardly presented inwardly pressing ends of said wire structure against upward movement on said body.

1,348,232. ANTIRATTLER. HERMAN C. MAISE, Detroit, Mich., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 28, 1917. Serial No. 151,391. 1 Claim. (Cl. 16—77.)

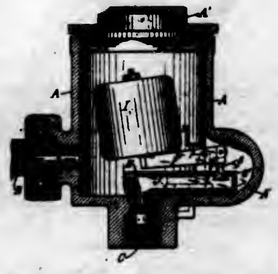
In a device of the kind described, a door member having a recess, a block of resilient material fitting said

recess, a plate covering said recess, said plate having an aperture of smaller dimension than the recess, a hollow semi-spherically shaped sheet metal member having an annular edge flange fitting said recess, and resting on



said resilient block, the semi-spherically shaped portion of said member protruding through the aperture in said plate, said plate serving to retain the flange of said semi-spherically shaped member and said resilient block within said recess.

1,348,233. OUTLET-VALVE. HARRY M. MILLER, Milwaukee, Wis. Filed Jan. 17, 1916. Serial No. 72,529. 6 Claims. (Cl. 137—113.)



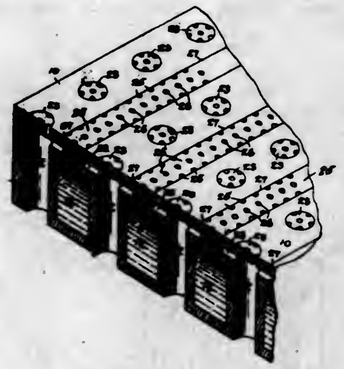
1. An outlet valve for radiators, including the combination of a casing provided with a side inlet and an outlet in its bottom, and having a lateral extension of the casing cavity located opposite the inlet, an outlet chamber having a tubular outlet projection fitted to the casing outlet, said chamber having an inlet port in its top, a valve within said chamber adapted to close said inlet port against fluid pressure, a lever pivotally supported above said chamber and linked to said valve, and a float having its bottom centrally connected to said lever; said lever having its valve supporting arm in the extension cavity, and its float supporting arm substantially in line with the inlet passage, said lever and the lower portion of the float being in the unobstructed direct path of the fluid entering the casing through said inlet, and subject to fluid momentum pressures and scouring effects of the incoming stream of water.

1,348,234. LOCK. JAMES C. MOCK and BENJAMIN F. WILLISTON, Detroit, Mich., assignors to John M. Fitzgerald, River Forest, Ill. Filed Mar. 11, 1920. Serial No. 364,913. 5 Claims. (Cl. 70—108.)



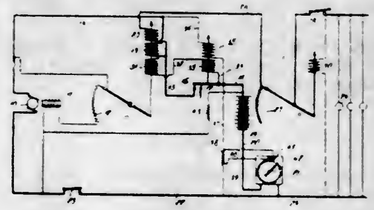
2. In combination, a housing-like lock body, a threaded locking element rotatably mounted and inclosed therein against substantial movement in its axial directions, a holding part having an end portion loosely extending into the lock body, said end portion being also threaded and being in threaded engagement with said locking element, and means within the lock body operable by a key projecting thereinto for rotating the locking element, the arrangement being such that the rotation of the locking element moves the holding element.

1,348,235. FORCED-DRAFT WATER-GRATE. HARRY F. MORRIS, Collingswood, N. J. Filed Nov. 3, 1919. Serial No. 335,295. 2 Claims. (Cl. 122—371.)



1. The combination in a water grate having a continuous circulation of water therethrough and having cored openings therein, of an air chamber, means for admitting air from said chamber to said openings, disks, tapering in form and having openings therein adapted to be positioned in the said grate openings to regulate the volume of air to be admitted to said grate, grooves provided in the body of said grate, disks, having openings therein, adapted to be positioned in said grooves and air communications between the various disks whereby the volume of air to be admitted to said grate may be increased.

1,348,236. SYSTEM FOR CHARGING STORAGE BATTERIES. THOMAS L. MOUNT, New York, N. Y. Filed June 19, 1918. Serial No. 240,824. 15 Claims. (Cl. 171—313.)

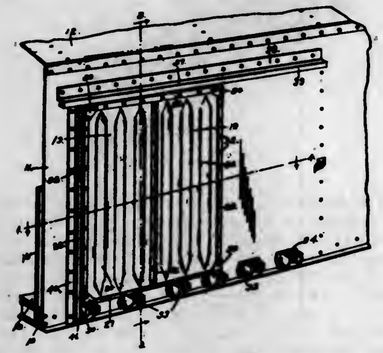


1. In a system of the character described, the combination of a generator, a storage battery, circuit connections between the generator and the battery, a regulator for said generator provided with a main series winding in the charging circuit and a second series winding wound to assist said main series winding but which is normally ineffective, and means for rendering said second series winding effective in conjunction with said main series winding to regulate the generator when the battery reaches a predetermined condition of charge.

11. In a system of the character described, the combination of a generator, a storage battery, circuit connections between the generator and the battery, a regulator for

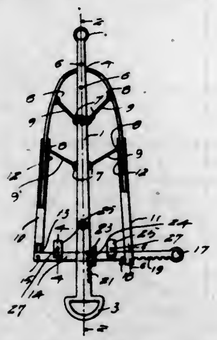
said generator provided with a main series winding in the charging circuit, and a second series winding wound to assist said main series winding, a switch adapted to establish a short circuit about said second series winding to render the same ineffective while the battery is being charged, a coil for controlling said switch, means for causing said controlling coil to be energized to open said switch and render said second series winding effective in conjunction with said main series winding to regulate the generator when the battery reaches a predetermined condition of charge, and a second coil associated with said switch and connected in series with said second series winding for holding said switch open while said second series winding is effective in regulating the generator.

1,348,237. RAILWAY-CAR-DOOR CONSTRUCTION. CLINTON C. MURPHY, Chicago, Ill.; Edna Blanke Murphy, executrix of said Clinton C. Murphy, deceased, assignor to Walter P. Murphy, New York, N. Y. Filed Aug. 11, 1916. Serial No. 114,396. 4 Claims. (Cl. 20—22.)



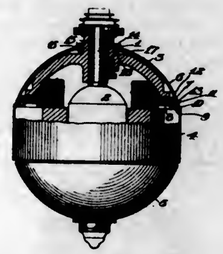
1. A railway box car comprising, in combination, Z-bar members at the upper, lower and forward edges of the door, the first named member having an additional outwardly extending web along its upper edge, and a channel member at the rear edge of the door, corner devices for fastening said members together to constitute a rigid frame, and a sheet metal panel composed of a single thickness of metal secured to said framework and formed with substantially parallel corrugations which terminate within the edges of the panel so as to rigidify the same.

1,348,238. FUR-STRETCHER. DAVID E. PAYNE, Magnolia, Minn. Filed May 7, 1919. Serial No. 295,298. 6 Claims. (Cl. 149—21.)



6. A fur spreader of the class described including a central bar, a frame connected with the central bar, links connecting the central bar with the frame and arranged to spread the said frame, a spreader bar connected with the central bar and with the sides of the frame, said spreader bar being provided with slots, approximately U-shaped clamps operating in the slots for engaging the fur and provided with adjusting means for maintaining them in such engagement.

1,348,239. ELECTRIC MOTOR. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Original application filed May 27, 1912, Serial No. 699,938. Divided and this application filed Nov. 12, 1917. Serial No. 201,546. 3 Claims. (Cl. 172—36.)



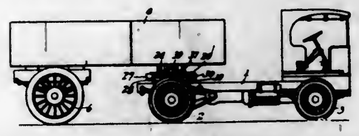
1. The combination with an electric motor casing, of an annular supporting flange fixed to the casing, a ring of resilient material arranged on said supporting flange, a cover section carrying an inwardly projecting flange which rests on said ring of resilient material, and a retaining ring threaded on the casing for holding the cover in position and clamping said ring of resilient material between said flanges.

1,348,240. PULLEY-GUARD. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Filed May 21, 1919. Serial No. 298,754. 8 Claims. (Cl. 74—51.)



1. The combination with a support and a rotatable pulley thereon, of an adjustable pulley guard pivotally carried by said support for a swinging movement into and out of proximity with said pulley, a belt retaining portion on said guard and parts on said guard embracing said support in frictional engagement therewith to retain said guard as adjusted in operative or inoperative relation to said pulley.

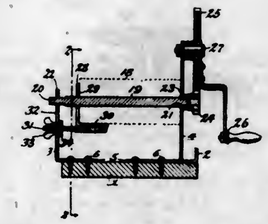
1,348,241. MOTOR-VEHICLE. JACOB H. PASS, Chicago, Ill. Filed Nov. 12, 1915. Serial No. 61,098. 2 Claims. (Cl. 280—33.1.)



1. The combination of a motor driven vehicle comprising a frame, front and rear axles, front and rear supporting wheels and suspension springs connected with the rear axle and frame, a trailer including a frame and means for carrying the rear end portion thereof, and

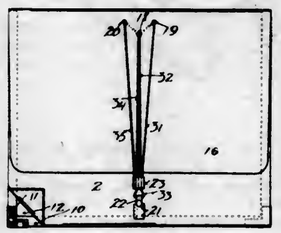
means for yieldably and pivotally supporting the forward portion of the trailer upon the rear axle of the vehicle independently of the vehicle frame and springs, said last mentioned means comprising auxiliary leaf springs disposed longitudinally of the vehicle frame and pivotally connected with the rear axle of the vehicle to rock in a vertical plane longitudinally of the vehicle frame, and bearings for said auxiliary springs carried by the means for securing the vehicle springs to the rear axle of the vehicle.

1,348,242. REWINDING-MACHINE. ADAM ROSS, Buffalo, N. Y. Filed July 8, 1919. Serial No. 309,377. 3 Claims. (Cl. 242—76.)



3. A rewinding machine comprising a rewinding shaft, a standard having a bearing in which one end of said shaft is journaled and also provided with a vertical slot, a gage adapted to be engaged by the periphery of the roll which is to be wound on said shaft, an end guide connected with said gage and provided with an upright slot which receives said shaft, a screw shank carrying said gage and guide and passing through said slot, and clamping screws arranged on said shank and engaging with opposite sides of said standard.

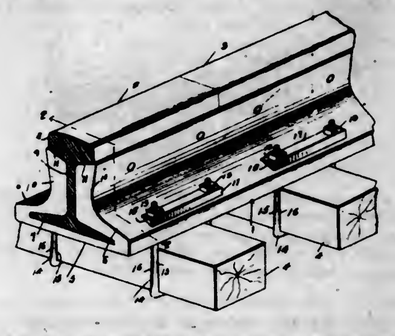
1,348,243. ENVELOP. GEORGE ROTTMAN, New York, N. Y. Filed Apr. 23, 1917. Serial No. 163,774. 3 Claims. (Cl. 229—77.)



1. An article of the class described comprising an envelop having a flap, and closing means therefor, said closing means comprising a flexible band, means for engaging the band at spaced positions on the envelop and flap whereby the band will extend across the edge of the flap to hold the flap closed, and slidable means associated with the band for shortening or lengthening the latter between said engaging means for the purpose set forth, said sliding means having coöperating portions which impinge the band between them to resist the movement of the sliding member on the band.

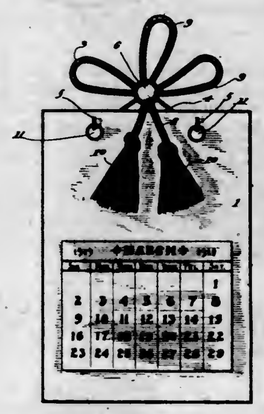
1,348,244. RAIL-JOINT. JOHN SHEPARD, Pittsburgh, Pa. Filed Feb. 28, 1919. Serial No. 279,685. 1 Claim. (Cl. 238—205.)

In a device of the class described, the combination with a pair of rail sections and supporting ties therefor, of a rail chair arranged to receive the meeting terminals of the rail sections, flanges formed on the rail chair and arranged to conform to the configuration of the rail sections and to snugly receive the same, said chair having a pair of spaced apertures formed therein, U-shaped bolts embracing the ties and having the terminals thereof extended through the apertures, said terminals being tapered from the intermediate portions of the bolts toward their ends, longitudinally extending plates extending from one



bolt to the other and having apertures formed therein and arranged to receive the terminals of the bolts, the lower surfaces of the plates being beveled to bear snugly upon the upper surface of the chair and the upper surfaces of the plates being level to provide holding surfaces, and nuts fitted on the free ends of the bolts to hold the same against displacement.

1,348,245. CALENDAR-HANGER AND THE LIKE. PHILIP SIEWENIE, Chicago, Ill. Filed Apr. 9, 1919. Serial No. 288,728. 5 Claims. (Cl. 40—107.)



1. A hanger comprising a member provided with an eye having arms extending therefrom, the ends of said arms being extended to form hooks, a button detachably connected to the eye, and a cord secured between the eye and button.

1,348,246. SHEET-FEEDING APPARATUS FOR PAPER-SORTING MACHINES. GEORG SPIESS, Leipzig-Reudnitz, Germany. Original application filed Dec. 28, 1915, Serial No. 69,047. Divided and this application filed Aug. 8, 1918. Serial No. 249,039. 1 Claim. (Cl. 271—76.)

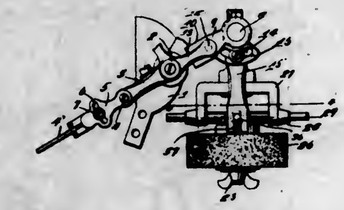
In a paper sorting machine, a sheet feeding apparatus for sheets cut from a moving web, grippers, flexible members for carrying the grippers, guiding means for the gripper carriers, means for varying the speed of the flexible

members whereby spaces can be produced between successive sheets with the speed of the sheet at the place of inspection equal to the unwinding speed of the paper web, said speed varying means comprising a beveled gear on the gripper driving shaft, a driven bevel wheel of said



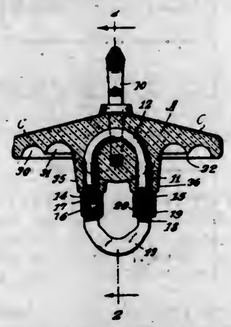
gear being mounted to rotate with the driving wheel of the drive for the flexible member on the shaft, and a transmitting bevel wheel likewise rotatable with respect to said shaft and a roller arm on a support of said wheel engaging a cam driven from said shaft.

1,348,247. BRUSH DEVICE FOR TRIMMING-MACHINES. WILLIAM J. STEERE, Rockwood, Tenn. Filed May 21, 1917, Serial No. 170,107. Renewed Dec. 13, 1919. Serial No. 344,758. 1 Claim. (Cl. 112—26.)



A brush attachment for a trimming machine, comprising a supporting bracket, a brush supporting shaft carried thereby, a swinging arm overhanging said bracket, a reciprocating bar, means for supporting said reciprocating bar, a head adjustably mounted upon said reciprocating bar, said arm engaging said head, and adapted to reciprocate said bar, as said arm is swung from side to side, a rack bar engaging said head, means for holding said rack bar in proper alinement, a pinion carried by said shaft, and engaging said rack bar, a brush secured upon said shaft, and adapted to be oscillated therewith.

1,348,248. DISK SUSPENSION-INSULATOR. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Jan. 24, 1917. Serial No. 144,109. 5 Claims. (Cl. 173—366.)



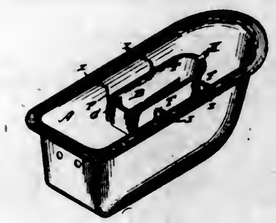
1. As an article of manufacture, a unitary structure consisting of a disk insulator provided with strain members embedded therein and projecting from opposite sides thereof, one entire side of which from the projecting strain member to the periphery of the same is provided with a continuous layer of waterproof metallic paste, the juncture between the insulating material and the layer of metallic paste being close and intimate, the path between said metallic edge and the other strain member, requiring less voltage to break it down than the path between said strain members.

1,348,249. INSULATING-KNOB. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Jan. 17, 1918. Serial No. 212,336. 5 Claims. (Cl. 178—110.)



1. An insulating knob for telegraph keys consisting of a finger portion, a shank and an insulating shield extending a material distance radially from the shank and at a point adjacent the finger portion, the said shield forming an insulated finger rest and protector for the remaining inactive fingers of the hand of the operator.

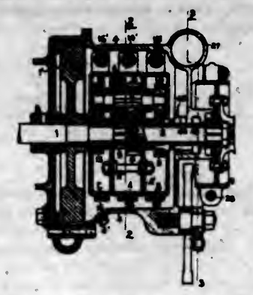
1,348,250. BATHTUB. GEORGE CANNING STRACHAN, Detroit, Mich. Filed Jan. 8, 1919. Serial No. 270,115. 1 Claim. (Cl. 4—27.)



A device of the character described, comprising a bath tub, brackets secured to the bottom of said tub, a plurality of rods extending transversely through said brackets, means for securing the rods in said brackets when adjusted, fittings secured to the outer end of said rods, vertically adjustable members extending into said fittings for supporting the tub at different altitudes upon the walls of a relatively larger tub, and means for securing said vertically adjustable members in rigid relation to the fittings when adjusted.

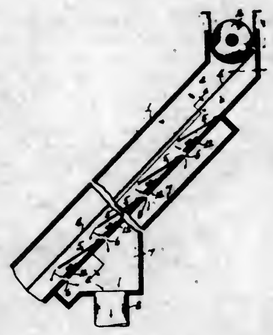
1,348,251. APPARATUS FOR CHANGE SPEED OF MOTOR-CARS. SHINKICHI TAMURA, Kobe, and MASANORI WATANABE, Tokyo, Japan; said Watanabe assignor to said Tamura. Filed Aug. 1, 1918. Serial No. 247,884. 5 Claims. (Cl. 74—34.)

1. In a variable speed gearing apparatus for motor cars, the combination with the driving and driven shafts, of a casing surrounding the meeting ends of the shafts, drums loose on the shafts, variable planetary gearings mounted in the drums and on the shafts, brake bands encircling the drums, a slidably and rotatably mounted member designed to act in conjunction with any one of these bands, spring tensioned means associated with the member for causing an application of any one of the brake bands, a brake drum on the driven shaft, a brake band surrounding the brake drum, and a lever mechanism designed to be moved a predetermined extent for acting against the



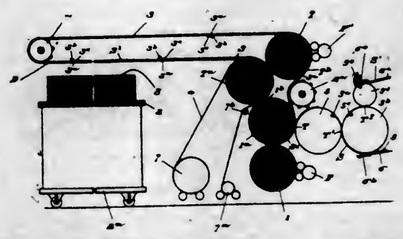
spring tensioned means to permit of an adjustment of the slidable member and to actuate the last mentioned brake band when moved beyond such predetermined extent.

1,348,252. SEPARATOR. ALEXANDER B. TODD, San Francisco, Calif. Filed Dec. 19, 1919. Serial No. 346,078. 6 Claims. (Cl. 83—54.)



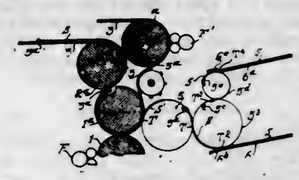
1. A separator comprising an open ended box mounted at an inclination adapted to effect the passage therethrough of the material, by gravity, said box having in its floor, an opening; a baffle plate within said box, rising from its floor in the direction of the foot of the box, the elevated lower edge of said plate lying in substantially the plane of the opening in the box floor, to effect a drop of the material over said opening; and means for producing a suction pressure outwardly through said opening to withdraw therethrough the lighter particles from the falling aggregate.

1,348,253. PRINTING-PRESS. BURT F. UPHAM, Boston, Mass., assignor to United Printing Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 16, 1919. Serial No. 324,072. 20 Claims. (Cl. 101—231.)



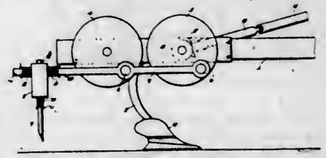
4. In a printing press, a printing couple including a plate cylinder and means coacting therewith for making an impression; and means for inking said cylinder; with means for carrying sheets between the members of the printing couple to be impressed thereby, said means also passing between the plate cylinder and the inking means.

1,348,254. SHEET-FEEDING MECHANISM. BURT FROST UPHAM, Boston, Mass., assignor to United Printing Machinery Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Sept. 16, 1919, Serial No. 324,072. Divided and this application filed Jan. 27, 1920. Serial No. 354,325. 12 Claims. (Cl. 271—9.)



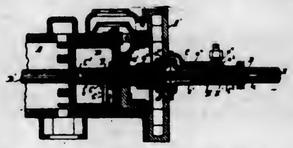
2. In combination printing mechanism; and a feed table from which the sheets are to be fed; with a gripper cylinder for removing sheets from the table; and a second gripper cylinder receiving sheets from the first cylinder and transferring same to the printing mechanism; whereby the sheets are reversely bent between the table and the printing mechanism.

1,348,255. AGRICULTURAL IMPLEMENT. JOHN VERSTEEG, St. Johns, Oreg. Filed Apr. 30, 1920. Serial No. 377,906. 3 Claims. (Cl. 97—53.)



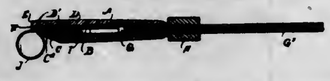
1. In combination with the plow and the means for supporting the same, of a blade for cutting the soil turned by the plow, a link upon which said blade is mounted to move longitudinally and vertically, means for cushioning the blade against the link, said means for moving the link comprising disks journaled on the plow support, the disks having eccentric journal pins on which the link is pivoted.

1,348,256. STEAM-ENGINE. FRANK L. O. WADSWORTH, Pittsburgh, Pa., assignor to Skinner Engine Company, Erie, Pa., a Corporation of Pennsylvania. Filed Dec. 12, 1916. Serial No. 136,460. 6 Claims. (Cl. 121—181.)



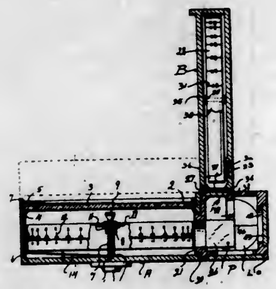
1. The combination in a steam engine, of a hollow piston, circulating mechanism including a cylinder and piston in communication with said hollow piston adapted to receive steam and cause it to circulate through said hollow piston, said cylinder having a steam inlet port adapted to be uncovered by the piston therein at the end of one stroke of the engine piston to permit steam to flow into said cylinder; means to regulate the flow of steam through said inlet port during the time it is uncovered; and means to convey steam away from said circulating mechanism, substantially as set forth.

1,348,257. COMBINATION INLAY AND ORTHODONTIA CLAMP. LOUIS P. WAGNER, Milwaukee, Wis. Filed Jan. 2, 1919. Serial No. 269,239. 3 Claims. (Cl. 32—17.)



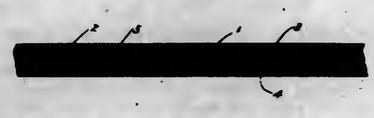
1. A beveled clamp for banding teeth, comprising the combination with an adjustable band engaging clamp, a holder adapted to receive the clamp, and provided with an open ended slot into which a band engaged by the clamp may be drawn, said holder having a beveled surface at one side, converging in the direction of the slot, and a fulcrum shoulder on the other side, substantially in a plane common to the beveled surface.

1,348,258. SURVEYING INSTRUMENT. HUGH C. WATSON, Denver, Colo. Filed Dec. 22, 1919. Serial No. 346,470. 2 Claims. (Cl. 88—23.)



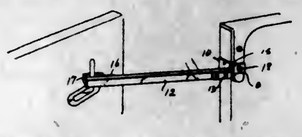
1. In an instrument of the class described, a casing, a compass rotatably mounted therein, a sight box embodying the usual sight lenses, a tubular connection between said sight box and said casing whereby said sight box is rotatably mounted with relation to said casing, said compass embodying a dial arrangement adjacent said tubular connection, means within said sight box whereby the indicia of said compass dial may be read, a casing pivotally connected to said sight box and adapted to be swung to raised and lowered position, a sight opening in said last named casing, a sight opening formed in said sight box adapted to coact with the sight opening of said last named opening when the casing is in raised position, a clinometer mounted within said last named casing and embodying a dial and means arranged within said sight box whereby the indicia of the dial of said clinometer may be read.

1,348,259. ROOFING MATERIAL AND PROCESS OF PREPARING THE SAME. HUGH L. WILBER, Kansas City, Mo., assignor to The Wilberite Roofing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 14, 1916. Serial No. 125,596. 3 Claims. (Cl. 154—51.)



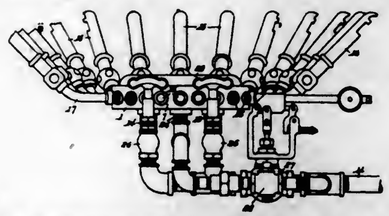
1. The process of preparing roofing material consisting of perforating a sheet of absorbent material, subjecting the treated sheet to a bath of preservative fluid and subjecting the treated sheet to a bath of bituminous material to coat the sides of the sheet and bond the side coats through the perforation of the inclosed sheet.

1,348,260. DOOR-HOLDING DEVICE FOR AUTOMOBILES. EDMOND A. BOYER, Princeton Junction, N. J. Filed July 19, 1919. Serial No. 311,937. 1 Claim. (Cl. 292—262.)



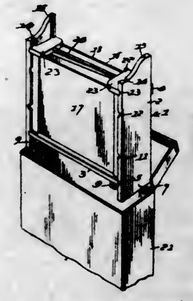
A door holding attachment for automobiles comprising an angular bracket having ears adapted to be applied to the corner of the side wall of the automobile door opening, an arm, a connecting member comprising a strip of metal secured to the side of one end portion of the arm and extending partially over the end of the arm, the end portion of said strip being beaded to provide a socket, said socket extending over the other portion of said end, a pintle for detachably pivoting said bead between the ears of the bracket, and expansible means carried by the other end of said arm for connecting said arm to a partially opened door to prevent movement of said door in either direction.

1,348,261. GAS-BURNER. CHARLES F. BRAND, Wheeling, W. Va. Filed Oct. 20, 1919. Serial No. 331,899. 7 Claims. (Cl. 158—105.)



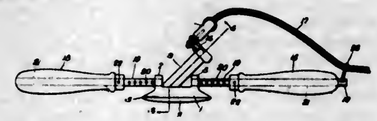
3. A multiple-burner manifold for furnaces, comprising a body having a central hub-like portion encircled by separate inclosed chambers located in superposed relation and at a suitable distance from its outer edge wall, said wall having therein a plurality of radial openings for the reception of individual burner elements, separate radially disposed passages with which said openings communicate, one or more of said passages being adapted to supply pilot burners therethrough, means for conducting gas to the last-mentioned passages, the remainder of said passages communicating at their inner ends with the upper and lower of said chambers in alternation, and separate supply passages leading to said chambers.

1,348,262. CONVERTIBLE TOY. SCOTT A. BROCKWAY, Laurel, Nebr. Filed Mar. 3, 1920. Serial No. 362,919. 8 Claims. (Cl. 45—70.)



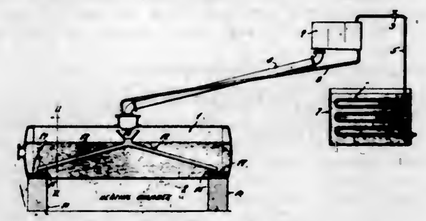
5. In a toy of the kind set forth, the combination with a container, of a knock down toy adapted to be converted into different articles of furniture, said toy comprising a plurality of furniture sections, coöperating with each other to form a second container to enter the first container, and adapted to receive certain of the other furniture sections.

1,348,263. ELECTRICALLY-HEATED SHOE-TREEING IRON. EDWIN N. CHANDLER, Braintree, Mass. Filed Nov. 23, 1915. Serial No. 62,968. 4 Claims. (Cl. 219—21.)



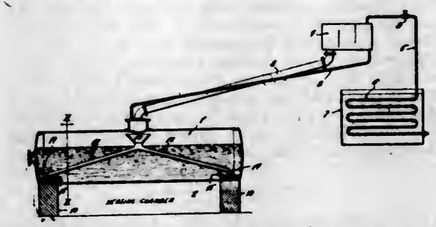
1. An electrically heated treeing iron, comprising a treeing tool, a carrier for an electric heating unit, said carrier constituting a conductor for the heat supply wires out of the way of the treeing tool and a heat insulated handle detachably secured to said tool.

1,348,264. APPARATUS FOR CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, a Corporation of Maryland. Filed Mar. 22, 1917. Serial No. 156,645. Renewed June 14, 1920. Serial No. 389,006. 2 Claims. (Cl. 196—3.)



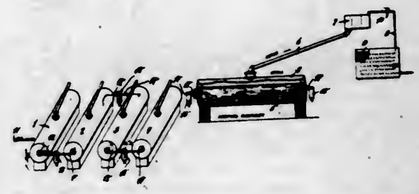
1. In an apparatus for cracking petroleum hydrocarbons, a pressure still provided with a heating chamber and a condenser, the heating chamber being below the still bottom and one end portion of said bottom being protected from the direct action of the heat of the heating chamber, means for conducting reflux condensate into the still, and a conductor for directing such reflux condensate to the protected end portion of the still bottom.

1,348,265. ART OF CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, a Corporation of Maryland. Filed Mar. 22, 1917. Serial No. 156,646. Renewed June 14, 1920. Serial No. 389,007. 1 Claim. (Cl. 196—25.)



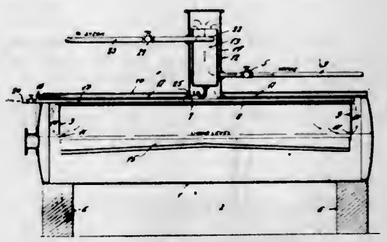
In the art of cracking petroleum hydrocarbons, the method which comprises confining such hydrocarbons in a still, transmitting heat directly to the middle portion of the still bottom, maintaining the end portions of the still bottom in a relatively cool condition, maintaining the contents of the still under pressure, conducting vapor from the still to a main condenser, also condensing the high boiling point fractions and conducting such condensate through the liquid contents of the still depositing it on the relatively cool end portions of the still bottom, preventing the relatively heavy coke-forming fractions of said condensate from circulating away from said relatively cool end portions, and permitting the lighter fractions of said condensate to circulate freely in the contents of the still.

1,348,266. ART OF CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, a Corporation of Maryland. Filed Mar. 27, 1917. Serial No. 157,629. Renewed June 14, 1920. Serial No. 389,008. 1 Claim. (Cl. 196—25.)



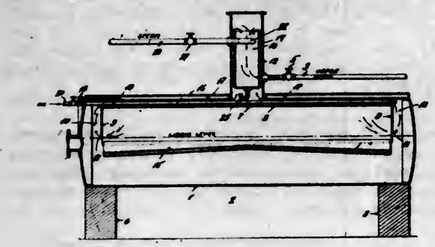
In the art of cracking hydrocarbons, the method which comprises maintaining the contents of a battery of horizontal cylindrical cracking stills under pressure, and in free communication with each other so as to equalize the pressure in the several stills, introducing the oil to be cracked into the battery of stills by conducting the oil into one of the stills and permitting it to overflow in a liquid state into the other stills, the overflowing oil being conducted from the lower portion of one still through a coke-trap and into another still so as to carry coke-forming fractions from the bottom of the overflowing still to the coke trap, and heating the bottoms of the stills to maintain the oil at a cracking temperature.

1,348,267. ART OF CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, a Corporation of Maryland. Filed Apr. 9, 1917. Serial No. 160,822. Renewed June 14, 1920. Serial No. 389,009. 3 Claims. (Cl. 196—25.)



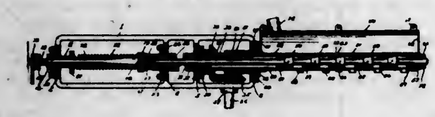
1. In the art of cracking petroleum hydrocarbons, the method which comprises vaporizing a hydrocarbon liquid in a horizontal cylindrical still, maintaining the liquid and vapor under pressure, maintaining the upper portion of the still in a relatively cool condition, deflecting vapor to an end portion of the still and then along the relatively cool upper portion so as to condense the vaporized fractions having relatively high boiling points, and conducting the remaining vapor from the still to a condenser.

1,348,268. APPARATUS FOR CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, a Corporation of Maryland. Filed Apr. 16, 1917, Serial No. 162,384. Renewed June 14, 1920. Serial No. 389,010. 9 Claims. (Cl. 196—8.)



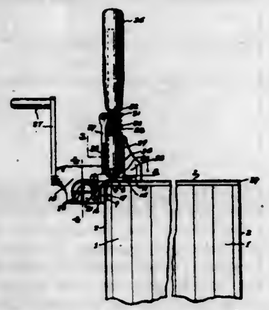
1. A cracking still having a vapor outlet, and vapor cooling means including a baffle device arranged within the still and extending from a point near one end of the still to a point near the opposite end, said baffle device being located near, and separated from, the top wall of the still to form a restricted passageway for the vapor flowing to said outlet, said baffle device being in the form of an inverted trough, closed at the top and open at the bottom to provide a vapor trap, and the lower edges of said baffle device being located below the liquid level in the still so as to prevent the vapor from flowing around said edges.

1,348,269. DISPENSING APPARATUS. CHARLES A. COSTIGAN, Oakland, Calif. Filed Mar. 17, 1917. Serial No. 155,925. 5 Claims. (Cl. 107—28.)



1. A dispensing apparatus comprising; an inner barrel having a plurality of openings, an outer barrel having intake and outlet openings, means for continuously rotating said inner barrel to bring the openings therein into registry successively with said intake and said outlet openings, and a plurality of pistons mounted on a common rod within said inner barrel and cam means revoluble with said inner barrel for imparting a reciprocating movement to said shaft.

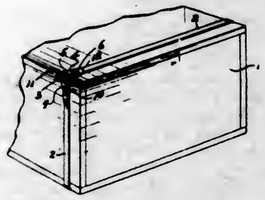
1,348,270. BOX-STRAP-APPLYING MECHANISM. EMIL DIETZE, Brooklyn, N. Y. Filed Apr. 25, 1919. Serial No. 292,728. 9 Claims. (Cl. 100—15.)



4. In a device of the kind described, a base portion having at its forward side a depending apron disposed at right angles thereto, said base portion and its apron being adapted to be engaged with a corner of a packing case or the like, said base portion having an opening therein through which a box-strap may be passed from beneath the rearward side thereof and thence above the apron, said opening being adapted to straddle a seal device connected with said box strap, a housing extending forwardly from the outer face of said apron and laterally off-set to permit said box strap to extend by the same, a transverse spindle journaled in said housing, an exteriorly projecting drum on said spindle, said drum having open diametrically disposed strap receiving slots extending inwardly thereinto from its free end, a worm gear fixed on said spindle within said housing, a longitudinal shaft mounted in said housing, a worm on said shaft operatively meshing with said worm gear, a crank-handle on the outer end of said shaft, a vertical guideway connected with said base portion and alined with said opening therein, a stamp-element slidably mounted in said guideway, spring means for normally holding said stamp-element in raised position, and a hammer device telescopically connected with the upper end of said stamp-element.

6. In a device of the kind described, the combination with a supporting frame-work of a laterally and freely projecting rotary drum having a spindle journaled in said frame-work, said drum having a diametrically disposed slot extending inwardly from the free end thereof to receive and dispose the end of a box strap at right angles to the axis of said drum whereby rotation of the latter will wind up said box strap end upon the cylindrical surface of said drum to thereby stretch the strap, a worm gear fixed on said spindle, a rotatable worm member mounted in said frame-work to mesh with said worm gear, and a crank-handle connected with said worm member for rotating the same.

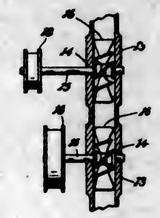
1,348,271. BOX-STRAP-FASTENING MEANS. EMIL DIETZE, Brooklyn, N. Y. Filed Jan. 27, 1920. Serial No. 354,405. 3 Claims. (Cl. 292—325.)



3. A box strap seal to be arranged with an angular edge of a box or the like, comprising a metallic member formed to provide a vertical stirrup portion having a stirrup opening through which one end of a box strap may be passed and doubled back upon itself to attach the same to said seal, an initially upwardly and forwardly inclined main body extending from the upper end of said stirrup portion, and an integral initially perpendicular fastening lug struck downwardly out of said main body, said fastening lug being substantially rectangular in shape and disposed in transversely oblique relation to said main body, and a downwardly directed sharpened spur formed in connection with the free end of said fastening lug at one side thereof, said fastening lug and its spur being adapted to be driven through the opposite end of said box strap positioned beneath said main body by flattening down the latter thereon.

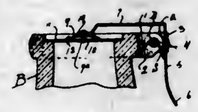
1,348,272. AIR AND GAS MIXER. ALBERT W. ELLING, Latimer, Iowa. Filed Mar. 8, 1919. Serial No. 281,408. 2 Claims. (Cl. 48—180.)

1. A device of the character described comprising a conduit having enlargements providing fan housings positioned in superposed relation, rotatable shafts extending transversely through the fan housings, fans mounted upon the shafts within the fan housings, and pulley wheels



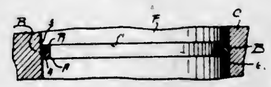
mounted upon the outer end portions of the shafts, the pulley wheels being of different diameters for causing rotation of the shafts at different speeds.

1,348,273. BOTTLE-CLOSURE. BURT EMRICK, Jackson, Mich. Filed Dec. 29, 1919. Serial No. 347,971. 3 Claims. (Cl. 215—34.)



1. A closure for bottles comprising a split ring adapted to engage about a bottle, a handle member pivotally carried by said ring, a disk, a headed member carried by the disk, said handle member being provided with a slot through which said member is directed, and a concavo-convex plate interposed between the handle member and the disk and through which the headed member is also directed whereby said disk is pivoted for angular oscillation with relation to said foot.

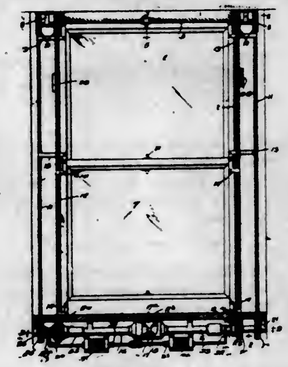
1,348,274. PISTON-RING. CONRAD H. FOLTMER, Wray, Colo. Filed Dec. 27, 1919. Serial No. 347,714. 4 Claims. (Cl. 74—109.)



1. As a new article of manufacture, a piston ring comprising two substantially concentric members, one of said members constituting a male member and the second of said members constituting a female member and being expansible, the male member being V-shape in cross section, with its inclined faces extending to the outer corners of the member to provide feather edges, the opposed face of the female member being provided with a groove substantially V-shape in cross section, with the side walls thereof extending to the outer corners of said female member to provide feather edges, the outer face of the wall member being flush with the feather edges of the female member when said members are assembled.

1,348,275. WINDOW-CONTROLLING DEVICE. EMILIO FONTQUERNI-VILA, New York, N. Y. Filed Mar. 29, 1918. Serial No. 225,599. 2 Claims. (Cl. 268—4.)

1. A device of the class described, comprising a drive shaft, a pair of drive members, a pair of stationary locking members, clutch members splined on the shaft, a rod connecting said clutch members, means normally urging said clutch members to clutching engagement with both the drive members and locking members and means for



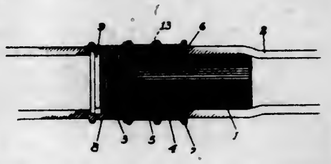
shifting said rod to disengage the clutch members from clutching relation with the locking members and with one of the drive members.

1,348,276. THREAD-CUTTER. LEWIS G. FRITZ, McCutchenville, Ohio, and ALFRED A. HERZBERGER, Indianapolis, Ind. Filed Sept. 5, 1919. Serial No. 321,786. 1 Claim. (Cl. 30—14.)



A thread cutter comprising a split ring for engaging the finger, one end of the ring having integral therewith an extension bent over upon the outer face of the ring and shaped to form a sheath, a blade held in the sheath, the sheath being cut away on the edge adjacent to the face of the ring and near the end remote from the connection with the ring to expose the cutting edge of the blade, and a support for the sheath at the cut away portion, said support having an inclined surface for guiding the thread to be cut toward the blade.

1,348,277. COUPLING. EDWARD L. GERRISH, Elk Grove, Calif. Filed Aug. 7, 1919. Serial No. 315,835. 3 Claims. (Cl. 285—13.)



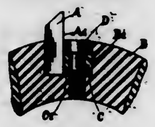
1. A hose coupling comprising a tubular sleeve adapted to be connected to the end of a hose, a threaded portion on the outer end of the sleeve of larger diameter than the same, and a collar on the sleeve threaded for a portion of its length, the collar being adapted for movement on the sleeve from behind the threaded portion thereof to a point where the threaded portion of the collar will project beyond the outer end of the sleeve.

1,348,278. PLASTIC SURFACE-COVERING. GUILFORD CRESSE GLYNN, Kansas City, Kans., assignor of one-half to P. A. Hilderbran, Kansas City, Mo. Filed Jan. 18, 1919. Serial No. 271,914. 1 Claim. (Cl. 94—23.)



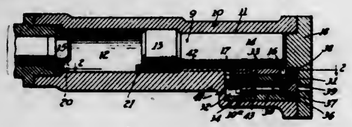
The method of making surface coverings consisting of placing a loose stone surface, filling the voids of the surface with mud, formed from colloid containing soil and bitumen, drying the mass, heating the dried mass and compacting the mass.

1,348,279. METAL-CUTTING TOOL. FREDERICK WILLIAM HEYWOOD, Prahran, Melbourne, Australia. Filed Jan. 29, 1920. Serial No. 354,826. 1 Claim. (Cl. 29—105.)



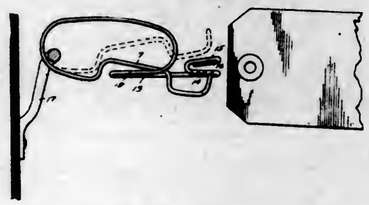
In a cutting tool, the combination of a body part, a parallel-sided cylindrical recess therein, a cutting tooth of parti-circular cross section located in said recess, a locking piece also of parti-circular cross-section, constituting a wedge and filling said recess, and a set screw extending through said locking piece and screwed into the bottom of the recess eccentrical to said recess substantially as set forth.

1,348,280. ROCK-DRILL OR IMPACT ENGINE. GEORGE WILLIAM HOWELL, Los Angeles, Calif. Substitute for application Serial No. 45,621, filed Aug. 15, 1915. This application filed Feb. 11, 1920. Serial No. 357,916. 4 Claims. (Cl. 121—15.)



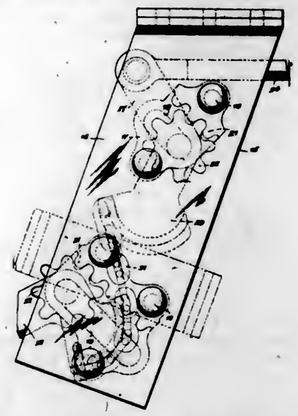
1. In an engine mechanism, the combination of a suitable casing having a cylinder with relatively large and small bores and a valve chamber with relatively large and small bores, a reciprocating piston in the cylinder with large and small ends, a reciprocating valve in the valve chamber with large and small ends, means to conduct an initial fluid pressure to the small valve bore to press against the small end of the valve and move it forwardly, means opened by the valve when so moved to admit the initial fluid pressure to the small cylinder bore to press against the small end of the piston and move it forwardly, means opened by the piston in its forward movement to admit the fluid pressure from the said cylinder bore to the large valve bore to press against the large end of the valve to move it rearwardly to close off the supply of initial fluid pressure to the small cylinder bore, means opened by the valve when moved rearwardly to admit the fluid pressure from the small cylinder bore and from the large valve bore into the large cylinder bore to press against the large end of the piston and move it rearwardly, said last mentioned means including a port leading from the large valve bore to the large cylinder bore, means opened by the piston at the rear end of its movement to directly exhaust pressure from the large cylinder bore and thereby through the communication of the last mentioned port to exhaust pressure from the large valve bore to reduce pressure on the large end of the valve so that the initial pressure at its other end will then move it forwardly, and means including an exhaust port leading from the large valve bore and adapted to be connected with the said last mentioned port when the valve moves forwardly.

1,348,281. TAG HOLDER AND CONNECTOR. ARTHUR W. JOHNSON, La Crosse, Wis. Filed Jan. 20, 1920. Serial No. 352,698. 4 Claims. (Cl. 40—26.)



2. A device of the character described formed of a single piece of wire bent to form a handle engaging loop and bent at one extremity of the wire to form a bifurcated element and bent at the opposite extremity of the wire to form a laterally extending trigger which springs into a position where it traverses the bifurcated element, under the tension of the wire.

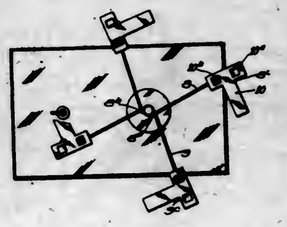
1,348,282. BRAKE APPARATUS. AUGUSTUS F. KLASING, Chicago, Ill., assignor of one-half to Frederick J. Stolpe, Chicago, Ill. Filed May 6, 1919. Serial No. 295,169. 7 Claims. (Cl. 188—24.)



6. In a device of the character described, a support, bodily movable bell-cranks having shiftable fulcrums in the support, means for shifting said bell-cranks bodily during movement on their fulcrums, and connections between said levers arranged to shift one of the levers in a direction relatively opposite to the shifting movement of the other lever.

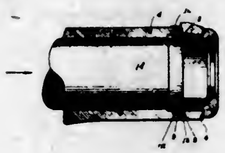
1,348,283. TOY. GEORGE J. KOEHL, San Diego, Calif. Filed Apr. 2, 1919. Serial No. 287,008. 2 Claims. (Cl. 46—59.)

1. In an apparatus of the class described, a base member, a vertical support mounted thereon, a plurality of radial arms pivotally mounted on the upper end of said support, targets pivotally mounted on said supports, means of said supports for holding said targets normally in a horizontal position but permitting them to revolve on



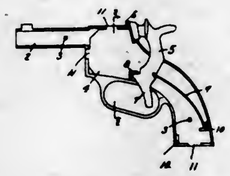
said supports in one direction, a projectile discharging device mounted in said base positioned to discharge a projectile in line with the travel of said targets.

1,348,284. SLIDE-BUSHING FOR PISTOLS. CRAWFORD C. LOOMIS, Ilion, N. Y., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 4, 1919. Serial No. 342,397. 6 Claims. (Cl. 42—3.)



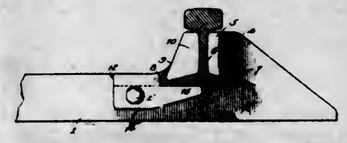
3. In firearms, an action slide formed with a substantially cylindrical passage having an annular recess spaced from the end thereof, and a bushing in said slide having an annular projection extending into said recess and secured in place thereby, said projection being formed by expanding the bushing into the recess.

1,348,285. TOY FIREARM. HERMANN G. LORENTZ, Cromwell, Conn., assignor to The J. & E. Stevens Company, Cromwell, Conn., a Corporation of Connecticut. Filed Apr. 27, 1920. Serial No. 376,902. 2 Claims. (Cl. 42—54.)



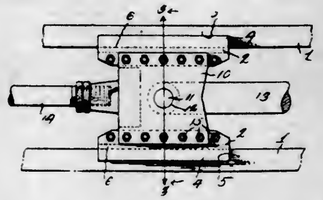
1. A toy fire arm comprising side sections each made up of a barrel part and a stock part integral with each other and stamped from sheet metal, an intermediate section between the side sections, rivets for uniting the side sections, one of the rivets extending through the intermediate section, a hammer on said intermediate section, the latter having a bearing to receive the hammer, and also having a second bearing, and a spring engaging the second bearing and the hammer, both bearings being formed from the intermediate section, the edge portions of the intermediate section engaging the side sections, the said intermediate section having lugs and the side sections being slotted to receive the lugs.

1,348,286. RAILWAY-TRACK. AMEDEO LUCHETTI, Monero, N. Mex. Filed Apr. 19, 1918. Serial No. 229,547. 4 Claims. (Cl. 238—364.)



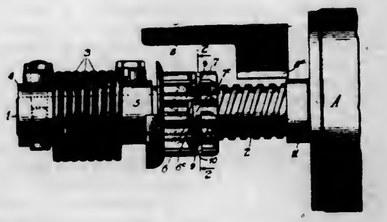
2. In a track construction of the class described the combination with a rail supporting tie provided with a relatively fixed rail engaging member, of a coöperating rail engaging member movable on said tie, a wedge portion provided on said coöperating rail engaging member, an inclined shoulder formed on said tie, a flange provided on said coöperating rail engaging member and adapted to bear upon the under side of the rail, and means located upon one side of the tie and carried by said flange for forcing the aforesaid wedge against the inclined shoulder for clamping the rail ends in position upon the tie.

1,348,287. CROSSHEAD. JOHN O. MCARTHUR, Council Bluffs, Iowa. Filed July 11, 1919. Serial No. 310,247. 2 Claims. (Cl. 74—84.)



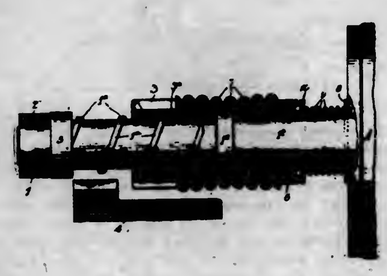
1. A crosshead comprising a pair of shoes, each of said shoes being adapted to slidably engage a crosshead guide, said cross head guides engaging channels in said shoes, each shoe comprising two sections, liners disposed between the adjacent edges of the sections of each shoe, wrist pin plates engaging the outer faces of the sections of each shoe and bolts passing transversely through the sections of each shoe whereby liners may be removed from between the sections and placed between the wrist pin plates and the outer faces of the sections of each shoe when the shoes become worn and lateral movement develops.

1,348,288. ENGINE-STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Mar. 31, 1919. Serial No. 286,322. 26 Claims. (Cl. 74—7.)



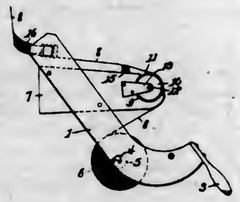
1. In an engine starter drive, means for facilitating the automatic meshing of a driving pinion with a gear of the engine to be started, including, in combination with such pinion, a pilot member located in advance thereof and having a rotarial movement independent thereof.

1,348,289. ENGINE-STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Apr. 9, 1919. Serial No. 288,814. 14 Claims. (Cl. 74—7.)



1. An engine starter drive including a rotatable member, a driving member mounted thereon for longitudinal movement thereon and rotary movement therewith, a follower loosely mounted on the rotatable member and yieldingly connected with the driving member, and means for stopping the movement of the follower before the end of the said longitudinal movement of the driving member.

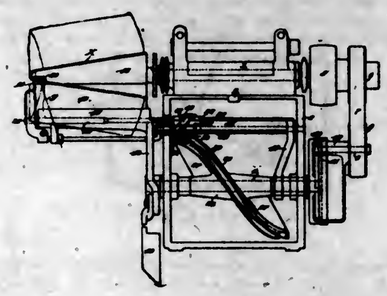
1,348,290. PAPER-HANGING DEVICE. PETER MALACOS and STEVE CANELLOS, Connellsville, Pa. Filed Nov. 1, 1919. Serial No. 334,950. 2 Claims. (Cl. 216—6.)



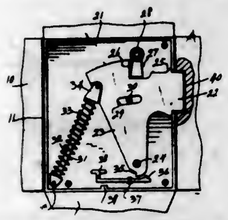
1. In a paper hanging device, a mounting for a roll of paper, a paste reservoir having an approximately flat top surface, said reservoir being disposed over said mounting, a sealing brush located over the forward end of said reservoir, said reservoir having its rear wall reëntrantly curved in semi-circular form to provide an outwardly and inwardly facing trough; said trough being provided with perforations, and a paste-applying roller rotatable in said trough and substantially conforming to the contour of the latter, said roller being so located with respect to the position of the paper roll and said brush that, in unwinding from said roll, paper is drawn over said roller and thence passes in a substantially horizontal direction over said flat surface of the reservoir to and under said brush.

1,348,291. CONE-WINDING MACHINE. GEORGE MARCROFT, Providence, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 23, 1918. Serial No. 259,344. 16 Claims. (Cl. 242—43.)

1. In a winding machine, the combination with a rotating winding-mandrel, of means to traverse the yarn on the mandrel, means for reciprocating the traversing-means, and means connecting the traversing-means with the reciprocating-means to cause the traverse of the yarn to be continuously advanced in one direction longitudinally of the mandrel whereby to progressively displace the successive layers of winding to build the package with concavo-convex ends.

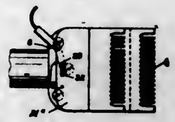


1,348,292. AUTOMATICALLY-LOCKING SWITCH-STAND. LUTHER B. MARTIN, Rexford, Mont. Filed Mar. 24, 1920. Serial No. 368,302. 3 Claims. (Cl. 246—414.)



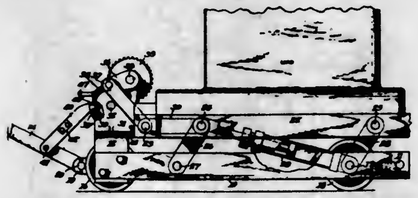
1. The combination with a switch stand having a notched table, a rotative mast, a handle member carried by the mast and rotating therewith and resting on the table, and a handle section hinged to the said member and adapted to be depressed into the notches of the table, of a lock casing carried by the handle section and having an opening in one edge wall, a body pivoted at one end in said casing and having a bolt at its end opposite the pivot and projecting through said opening, the upper end of the body being formed with a shoulder adapted to register with a keyhole whereby a key may be inserted to engage said shoulder and retract the body and bolt, a spring engaging the free end of said body and urging the bolt outward, said body having means for limiting its outward and inward movements.

1,348,293. HAIR-CLIPPER. SOLOMON M. MILLER, Chicago, Ill. Filed July 11, 1919. Serial No. 310,242. 4 Claims. (Cl. 30—1.)



1. In a hair clipper having a pair of serrated cutting members, a serrated plate movable transversely with respect to the relative movement between said cutting members, and means for moving said last mentioned serrated plate whereby the same may be disposed in different forward and rearward positions relative to the cutting area and means for moving said last mentioned plate manually during clipping operation.

1,348,294. JACK-TRUCK. JOSEPH F. MOELLER, Chicago, Ill., assignor to Moeller Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 29, 1919. Serial No. 334,179. 10 Claims. (Cl. 254—10.)



1. In a jack truck, the combination of a main frame mounted on wheels, an upper frame, parallel links connecting said main and upper frames, a handle lever pivotally connected to said main frame, a lifting pawl pivoted to said handle lever, a ratchet journaled on said main frame and coöperating with said lifting pawl, a pinion fast with said ratchet, a gear wheel actuated by said pinion, and connections from said gear wheel to said upper frame.

1,348,295. MILLING-CUTTER. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 26, 1918. Serial No. 268,349. 15 Claims. (Cl. 29—103.)



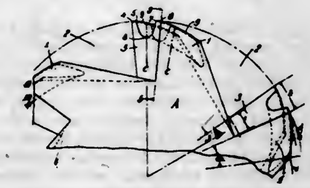
1. A milling cutter for cutting a predetermined contour other than a straight line, comprising a plurality of generally longitudinal teeth each provided with a front cutting face inclined with respect to the cutter axis and having a contour adapted to cut the said predetermined contour, the outer surface of each tooth behind the inclined cutting face being relieved along lines extending backward and inward from the outer edge of the face.

1,348,296. METHOD OF MAKING MILLING-CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 26, 1918. Serial No. 268,350. 14 Claims. (Cl. 76—101.)



1. The herein described method of shaping a relieved milling cutter adapted to cut a predetermined contour other than a straight line and having helicoidal cutting faces inclined with respect to the axis, the method consisting in forming a preliminary cutter having at planes of intersection transverse to the lines of cutting a shape the same or approximately the same as the predetermined contour and provided with a cutting face with a degree of inclination bearing a predetermined ratio to the degree of inclination of the cutting faces of the final cutter and provided with a degree of relief bearing a ratio to the degree of relief of the teeth of the final cutter which is the inverse of the ratio between the degrees of inclination, and in forming the shape of the relieved final milling cutter from the said preliminary cutter whereby the final cutter is formed with a distorted shape at axial planes of intersection but is adapted to cut the correct contour when rotated.

1,348,297. METHOD OF MAKING MILLING-CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Original application filed May 1, 1918, Serial No. 231,796. Divided and this application filed Dec. 26, 1918. Serial No. 268,351. 3 Claims. (Cl. 76—101.)



1. The herein described method of shaping a spirally relieved milling cutter adapted to cut a predetermined contour other than a straight line and having helicoidal cutting faces, the method consisting in forming a preliminary milling cutter having at axial planes of intersection a shape the same or approximately the same as the predetermined contour and having its teeth provided with helicoidal cutting faces with a longitudinal pitch different from the longitudinal pitch of the helicoidal cutting faces of the final cutter and provided with a degree of spiral relief different from the degree of spiral relief of the teeth of the final cutter, the ratio of the two pitches being the same as the ratio of the two degrees of reliefs, and in forming the shape of the relieved final milling cutter from the said preliminary cutter whereby the final cutter is formed with a distorted shape at axial planes intersection but is adapted to cut the correct contour when rotated.

1,348,298. METHOD OF MAKING MILLING-CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 26, 1918. Serial No. 268,352. 6 Claims. (Cl. 76—101.)



1. The herein described method of shaping a relieved milling cutter adapted to cut a predetermined contour other than a straight line and having cutting faces inclined with respect to the axis, the method consisting in forming a preliminary cutter having the correct predetermined contour at planes of intersection transverse to the lines of cutting and provided with a cutting face with a degree of inclination bearing a predetermined ratio to the degree of inclination of the cutting faces of the final cutter and provided with a degree of relief bearing a ratio to the degree of relief of the teeth of the final cutter which is the inverse of the artio between the degrees of inclination, in forming a lathe tool from the said preliminary cutter, and in cutting the relieved final milling cutter by means of the said lathe tool whereby the final

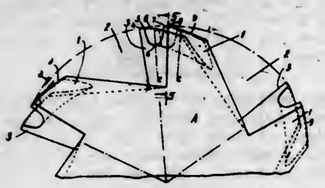
cutter is formed with a distorted shape at axial planes of intersection but is adapted to cut the correct contour when rotated.

1,348,299. METHOD OF MAKING MILLING-CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 26, 1918. Serial No. 268,353. 5 Claims. (Cl. 76—101.)



1. The herein described method of shaping a relieved milling cutter adapted to cut a predetermined contour other than a straight line and having cutting faces inclined with respect to the axis, the method consisting in forming a reciprocable preliminary tool having the correct predetermined contour at planes of intersection transverse to the lines of cutting and provided with a cutting face with a degree of inclination bearing a predetermined ratio to the degree of inclination of the cutting faces of the final cutter and provided with a degree of relief bearing a ratio to the degree of relief of the teeth of the final cutter which is the inverse of the ratio between the degrees of inclination, and in forming the shape of the relieved final milling cutter from the said reciprocable preliminary tool whereby the final cutter is formed with a distorted shape at axial planes of intersection but is adapted to cut the correct contour when rotated.

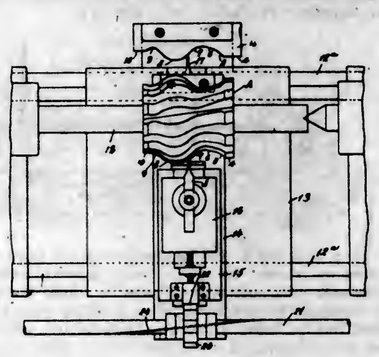
1,348,300. METHOD OF MAKING MILLING-CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 26, 1918, Serial No. 268,354. Renewed Apr. 6, 1920. Serial No. 371,739. 6 Claims. (Cl. 76—101.)



1. The herein described method of milling a milling cutter to form spiral relief thereon, the method consisting in placing a rotating preliminary cutter in operative relation to a blank for the final cutter, in slowly rotating the blank, and in feeding the preliminary cutter in such a way that its center moves inward at a rate related to the rate of rotation of the blank but less than the corresponding decrease in radius of the spiral relief.

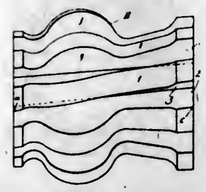
1,348,301. METHOD OF MAKING MILLING-CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 3, 1918. Serial No. 248,190. 13 Claims. (Cl. 76—101.)

1. The herein described method of shaping a spirally relieved milling cutter having helicoidal cutting faces adapted to cut a predetermined contour other than a straight line, the method consisting in axially rotating a blank having teeth with helicoidal front faces, in providing a very narrow cutting tool in position to cut the blank, in feeding the tool from one end of the blank to the other, the amount of feed for each revolution of the blank being less than the width of the tool, in guiding the tool as it



is fed to follow the said contour, and in reciprocating the tool as it is fed in timed but varying relation to the rotation of the blank to provide the required relief.

1,348,302. METHOD OF MAKING MILLING-CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 13, 1919. Serial No. 270,941. 7 Claims. (Cl. 76—101.)

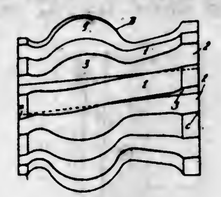


1. The herein described method of shaping a spirally relieved milling cutter having helicoidal cutting faces adapted to cut a predetermined contour other than a straight line, the method consisting in axially rotating a blank having teeth with helicoidal front faces, in providing a former having the predetermined contour of the final cutter and a companion former pin having a predetermined convex shape, in providing a cutting tool having an effective shape different from that of the former pin but related thereto in a predetermined way, and in cutting the contour of the relieved final milling cutter by means of the cutting tool, the tool being guided by the said former and former pin to develop the predetermined contour and being reciprocated in timed but varying relation to the rotation of the blank to provide the required relief.

1,348,303. METHOD OF MAKING MILLING-CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 13, 1919. Serial No. 270,942. 3 Claims. (Cl. 76—101.)

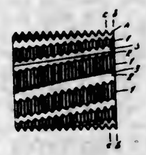
1. The herein described method of shaping a spirally relieved milling cutter having helicoidal cutting faces adapted to cut a predetermined contour other than a straight line, the method consisting in axially rotating a blank having teeth with helicoidal front faces, in providing a former having the predetermined contour of the final cutter and a companion former pin having a predetermined convex shape, in providing a preliminary milling cutter having an effective shape different from that of the former pin but related thereto in a predetermined

way, and in milling the contour of the relieved final milling cutter by means of the preliminary cutter, the cutter being guided by the said former and former pin to develop



the predetermined contour and being reciprocated in timed but varying relation to the rotation of the blank to provide the required relief.

1,348,304. THREAD-MILLING HOB. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 1, 1919. Serial No. 274,529. 6 Claims. (Cl. 29—103.)



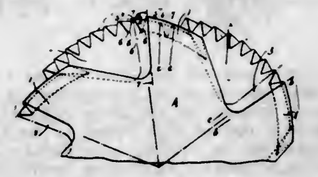
1. A milling cutter for cutting a predetermined composite contour consisting of a number of equal elemental contours arranged at uniform distances, the said cutter being provided with a plurality of generally longitudinal helical teeth each having a helicoidal front cutting face, the outer edge of each cutting face having a contour adapted to cut the said predetermined composite contour and the outer surface of each tooth behind the cutting face being relieved along lines extending backward and inward from the outer edge of the face in planes perpendicular to the axis.

1,348,305. METHOD OF MAKING THREAD-MILLING HOBS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 1, 1919. Serial No. 274,530. 10 Claims. (Cl. 76—101.)



1. The herein described method of shaping a relieved milling cutter having helicoidal cutting faces adapted to cut a predetermined composite contour consisting of a number of equal elemental contours arranged at uniform distances, the method consisting in axially rotating a blank having teeth with helicoidal cutting faces, in providing and positioning a cutter having a distorted effective contour whereby it is adapted to correctly cut one of the said elemental contours, in moving the cutter toward and from the blank axis during the cutting action in timed relation to the blank rotation to effect relieving, in moving the cutter longitudinally of the blank after the cutting action to position it for cutting another of the said elemental contours, in varying the timed relation of the relieving movements in proportion to the said longittudinal movement and in accordance with the inclination of the helicoidal cutting faces, and in repeating the said series of cutter movements until the final milling cutter has been shaped with the required number of elemental contours.

1,348,306. METHOD OF MAKING THREAD-MILLING HOBS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 1, 1919. Serial No. 274,531. 7 Claims. (Cl. 76—101.)



1. The herein described method of shaping a relieved milling cutter having helicoidal cutting faces adapted to cut a predetermined composite contour consisting of a number of equal elemental contours arranged at uniform distances, the method consisting in axially rotating a blank having teeth with helicoidal cutting faces, in providing and positioning a non-rotary lathe tool having a distorted shape whereby it is adapted to correctly cut one of the said elemental contours, in moving the tool toward and from the blank axis during the cutting action in timed relation to the blank rotation to effect relieving, in moving the tool longitudinally of the blank after the cutting action to position it for cutting another of the said elemental contours, in varying the timed relation of the relieving movements in proportion to the said longitudinal movement and in accordance with the inclination of the helicoidal cutting faces, and in repeating the said series of tool movements until the final milling cutter has been shaped with the required number of elemental contours.

1,348,307. MILLING-CUTTER. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 31, 1919. Serial No. 286,521. 17 Claims. (Cl. 29—103.)



1. A milling cutter for cutting a predetermined contour other than a straight line, comprising two sets of generally longitudinal teeth provided respectively with front cutting faces oppositely inclined with respect to the cutter axis, the said cutting faces having contours adapting them to cut the said predetermined contour and the outer surfaces of the teeth behind the inclined cutting faces being relieved along lines extending backward and inward from the outer edges of the faces to provide an effective contour behind each cutting face which is the same at successive surfaces of intersection inclined similarly to the initial cutting face, whereby the cutter may be ground on the inclined faces without changing the effective contour.

1,348,308. METHOD OF MAKING MILLING-CUTTERS. FRIEDRICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 31, 1919. Serial No. 286,522. 10 Claims. (Cl. 76—101.)



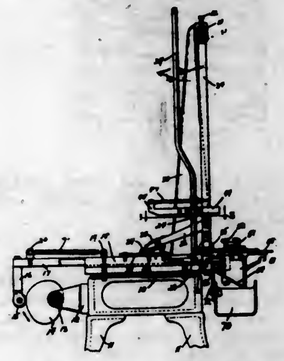
1. The herein described method of shaping a relieved milling cutter adapted to cut a predetermined contour other than a straight line and having different cutting faces oppositely inclined with respect to the axis, the method consisting in forming a preliminary cutting means having at planes of intersection transverse to the lines of cutting a shape the same or approximately the same as the predetermined contour, the said preliminary cutting means being provided with oppositely inclined cutting faces each having a degree of inclination bearing a predetermined ratio to the degree of inclination of the cutting faces of the final cutter and being provided with a degree of relief bearing a ratio to the degree of relief of the teeth of the final cutter which is the inverse of the ratio between the degrees of inclination, and in forming the shape of the relieved final milling cutter from the said preliminary cutting means whereby the final cutter is formed with distorted shapes at axial planes of intersection back of the respective oppositely inclined cutting faces but is adapted to cut the correct contour when rotated.

1,348,309. METHOD OF MAKING MILLING-CUTTERS. FRIEDRAICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 31, 1919. Serial No. 286,523. 7 Claims. (Cl. 76—101.)



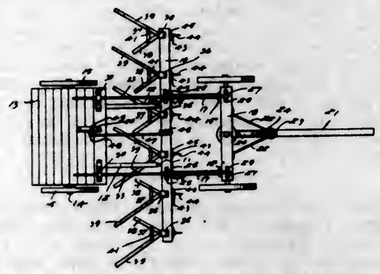
1. The herein described method of shaping a relieved milling cutter adapted to cut a predetermined contour other than a straight line and having different cutting faces oppositely inclined with respect to the axis, the method consisting in forming a preliminary rotary milling means having at planes of intersection transverse to the lines of cutting a shape the same or approximately the same as the predetermined contour, the said preliminary milling means being provided with oppositely inclined cutting faces having a degree of inclination bearing a predetermined ratio to the degree of inclination of the cutting faces of the final cutter and being provided with a degree of relief bearing a ratio to the degree of relief of the teeth of the final cutter which is the inverse of the ratio between the degrees of inclination, and in milling the relieved final milling cutter with the said preliminary milling means whereby the final cutter is formed with distorted shapes at axial planes of intersection back of the respective oppositely inclined cutting faces but is adapted to cut the correct contour when rotated.

1,348,310. GAGING OR ASSORTING MACHINE. SAMUEL A. NORTH, Bridgeport, Conn., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y., a Corporation of Delaware. Filed May 27, 1919. Serial No. 300,119. 15 Claims. (Cl. 83—92.)



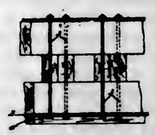
1. In a gaging and assorting machine, a substantially plane surface, a relatively long arm pivoted at one end with its other end normally adjacent said surface and with the arm substantially perpendicular thereto, and means for forcing the body to be gaged over said surface and under said lever, whereby said lever is swung forwardly a distance varying with the length of said body.

1,348,311. FOUR-WHEEL-TRUCK WEEDER. HENRY C. ODENRIDER, Wilbur, Wash. Filed Oct. 1, 1919. Serial No. 327,619. 6 Claims. (Cl. 97—34.)



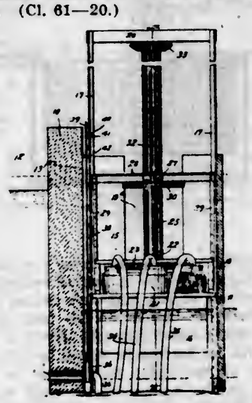
1. A weeding machine comprising a transverse beam, a front truck, links connecting the front truck to the beam, a rear truck, members attached to the rear truck and swingingly connected to the beam at the rear thereof, ground working implements attached to the beam and vertically movable therewith, and means pivotally mounted on one of said trucks and adjustably engaging the other truck for raising or lowering the beam.

1,348,312. REINFORCEMENT FOR WOODEN KEELS AND KEELSONS. RIOHEI OGAWA, Tokyo, Japan. Filed Oct. 9, 1919. Serial No. 329,578. 3 Claims. (Cl. 114—83.)



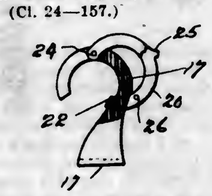
1. A reinforcement for wooden keels and keelsons including metallic plates secured to the upper surface of the keelson and the under surface of the keel.

1,348,313. SYSTEM FOR DEVELOPING POWER BY TIDAL MOVEMENT. VINCENZO PASSANO, Isola Siri Superiore, Italy, assignor of one-half to P. Di Milia, Boston, Mass. Filed Dec. 20, 1919. Serial No. 346,274. 3 Claims. (Cl. 61—20.)



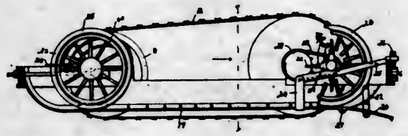
1. A system for developing power by tidal movement, comprising a reservoir into which water flows with the rising tide, means for retaining the water therein during ebb tide, a float-supported fluid motor exterior of said reservoir and adapted to rise and fall with the tide, and flexible tubular means for conducting water from the reservoir to said motor, said means being fixed at one end to and in communication with the reservoir, and at the other end connected with said motor and adapted to rise and fall with the latter.

1,348,314. SAFETY-CATCH. LOUIS A. PAGE, Providence, R. I., assignor of one-half to Edwin B. Evans, Providence, R. I. Filed May 14, 1920. Serial No. 381,268. 4 Claims. (Cl. 24—157.)



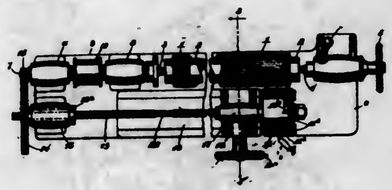
3. A safety catch comprising two hook-shaped arms folded closely together to form a hook-shaped central body member, a gate member having a pair of arms straddling said body and pivoted thereto to swing and close the mouth of said hook, and a crossbar connecting the swinging ends of said arms arranged to engage the body portion and limit their opening swinging motion.

1,348,315. TRACTOR. CHARLES H. PECK, Philadelphia, Pa. Filed Mar. 15, 1919. Serial No. 282,843. 4 Claims. (Cl. 180—9.1.)



1. In a tractor, two crawler units, bars for adjustably securing the units together, a track rigidly secured to the inside of each of the units, inclines pivoted to each of the crawler units in such manner that the inner ends of said inclines will register with the rear ends of the tracks when the outer ends of said inclines are lowered, and toggle levers for locking the inclines in their operative positions.

1,348,316. MEANS FOR CUTTING RINGS AND WASHERS FROM RUBBER TUBING. JOSEPH E. PERRAULT, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Oct. 9, 1919. Serial No. 329,486. 10 Claims. (Cl. 164—69.)



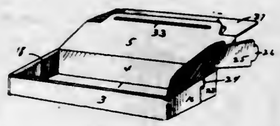
1. In combination, a support for a tube or roll of material with means for rotating it, and a juxtaposed cutter head having a plurality of spirally arranged knives with means for continuously rotating said cutter head to cause said knives to gradually and successively enter and leave the tube or roll.

1,348,317. CLOSURE FOR CANS AND CONDUIT-BUSHINGS. VICTOR E. RANDALL, Battle Creek, Mich. Filed Nov. 18, 1919. Serial No. 338,988. 4 Claims. (Cl. 220—42.)



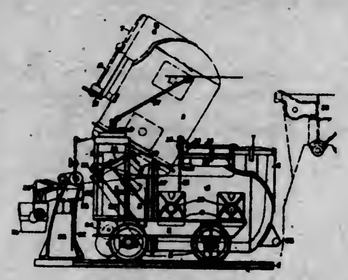
2. In a device of the class set forth, the combination with the nozzle or neck of a container, of a cover comprising a dished bottom the side walls of which impinge the inner surface of said nozzle or neck, and formed with an outwardly burred rim seated on said nozzle or neck and having its edge turned inwardly and upwardly to overhang said dished bottom.

1,348,318. DISPLAY AND DISPENSING PACKAGE. PERCY REEVES, Chicago, Ill. Filed July 29, 1918. Serial No. 247,087. 3 Claims. (Cl. 206—44.)



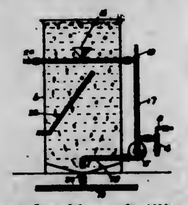
1. A container comprising a blank consisting of a single sheet of material cut and scored and folded to provide a bottom wall, a front wall, two side walls, a rear wall and a cover, the front and side walls consisting of double thicknesses of material and the front and rear walls equipped at their side edges with integral tongues provided with interengaging formations and engaged with each other and lying in the hollow spaces of the end walls whereby the front, rear and end walls are firmly held in proper position relatively to the bottom wall, tongues projecting from the rear ends of the end walls, a slot in the cover, and a cover-supporting member adapted to engage in the slot in the cover and with slots in which said last-named tongues are adapted to engage for firmly securing said supporting member in place and firmly holding said cover in open position.

1,348,319. METAL-TRANSFER CAR. EDGAR J. REILLY, Youngstown, and ALFRED C. NELSON, Lakewood, Ohio, assignors to The William B. Pollock Company, Youngstown, Ohio, a Corporation of Ohio. Filed Apr. 14, 1920. Serial No. 373,935. 7 Claims. (Cl. 105—272.)



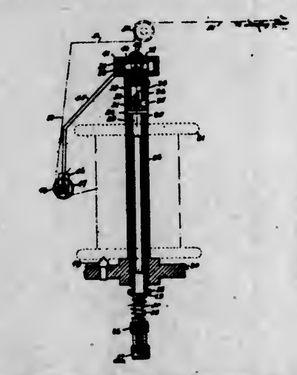
1. A hot metal transfer device, comprising a support, and a container mounted on said support to tilt upwardly and forwardly in the direction of the longitudinal axis of the container, said container having a filling opening at its rear end, and a delivery opening at its forward end, substantially as described.

1,348,320. METHOD OF MAKING FERTILIZER FROM CITY AND LIKE WASTE. CYRUS WM. RICE, Philadelphia, Pa., assignor to Chemo-Mechanical Water Improvement Company, Philadelphia, Pa. Filed Sept. 30, 1915. Serial No. 53,445. 13 Claims. (Cl. 71—8.)



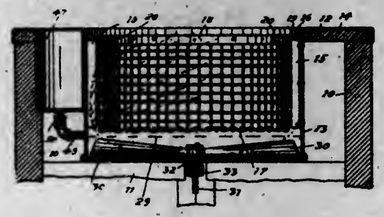
6. In the process of making a fertilizer from sewage the improved step which consists in adding muck, the product of the process to raw sewage preparatory to its treatment substantially as described.

1,348,321. UNWINDING DEVICE. SAMUEL ROGERS, Anderson, Ind., assignor to The Remy Electric Company, a Corporation of Indiana. Filed Dec. 6, 1918. Serial No. 265,484. 25 Claims. (Cl. 242—128.)



1. In an unwinding device, the combination with a rotatably mounted unwinding finger; of a friction device for retarding the free movement of the finger; and a yielding connection between said finger and the friction device.

1,348,322. DISH-WASHING MACHINE. EVEN J. ROHNE, Minneapolis, Minn., assignor to Rohne Dishwasher Company, Minneapolis, Minn. Filed Oct. 22, 1914, Serial No. 867,952. Renewed Feb. 18, 1916. Serial No. 79,197. 3 Claims. (Cl. 141—9.)



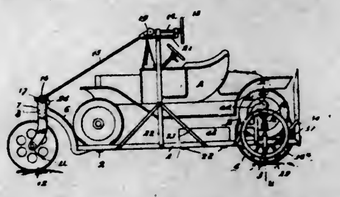
2. A dishwashing machine comprising a cylindrical tank, a plurality of vertical plates extending radially inwardly from the inner wall of the tank and having their lower ends spaced from the bottom of the tank, a reticulate receptacle for dishes removably held inside of said plates in the tank with its bottom in approximately the plane of the bottoms of the plates, and means for rotating a body of water at the bottom of the tank beneath said receptacle and plates.

1,348,323. DRESSING-TOOL. WILLIAM E. ROSS, Cleveland, Ohio, assignor to The Ross Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 13, 1919. Serial No. 296,899. 8 Claims. (Cl. 125—37.)



6. A dressing tool comprising, a dressing element; a rotatable spindle; a supporting member provided with spindle bearings; means for adjustably securing said spindle in said supporting member; and means for securing said dressing element to said spindle so that the same may rotate together, said means including a spindle bushing secured to and interiorly of said element and formed with a plurality of shoulders; shoulders formed upon said spindle and adapted to engage with the shoulders of said bushing; and means for securing said bushing longitudinally relatively to said bushing.

1,348,324. AUTO-DRIVEN TRACTOR. GEORGE H. SCULLY, Kansas City, Mo., assignor, by mesne assignments, to Automotive Tractor Corporation of America, Kansas City, Mo., a Corporation of Missouri. Filed Nov. 28, 1916. Serial No. 133,844. 13 Claims. (Cl. 180—1.)



1. A tractor comprising a frame for carrying a self propelled vehicle, guide and traction ground members supporting the frame, a standard rising from the frame to extend alongside the self propelled vehicle, steering mechanism connected with the tractor guide members and anchored to said standard, and means for gearing the self propelled vehicle to the tractor to drive the same.

1,348,325. WELL-BORING APPARATUS. THOMAS P. SHEAN, Chicago, Ill. Filed Oct. 26, 1917. Serial No. 198,560. 17 Claims. (Cl. 255—4.)



1. In an apparatus of the class described, the combination with a support, of a head connected to said support, a motor connected to one end of said head, a cutting tool associated with said motor, and a plurality of rods connected to the other end of said head for guiding the apparatus as the same penetrates the cut, said guiding rods extending upwardly from said head and surrounding said support in spaced relation to the latter.

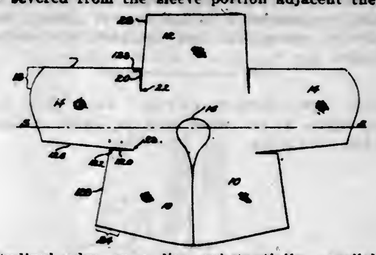
1,348,326. CHILD'S VEHICLE. MAX SKOLNIK, Minneapolis, Minn. Filed Apr. 21, 1919. Serial No. 291,544. 1 Claim. (Cl. 208—30.)



A child's vehicle comprising a main body member, wheels upon which the rear of said body member is supported, a front member, the adjacent edges of said front and body members being concaved and convexed to fit together with a closed joint, angle irons secured to the top and bottom of one of said members adjacent said joint, pins secured to the top and bottom of the other member adjacent said joint, said pins and angle irons interfitting to hinge the two members together, a flat spring located in said members for normally keeping them in alinement with each other, and a guiding wheel for supporting said front member.

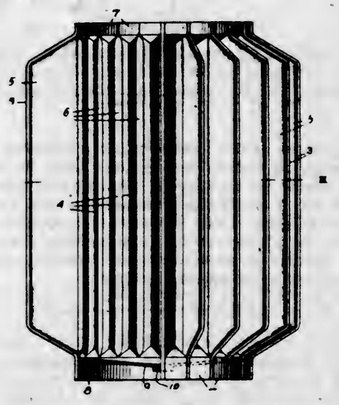
1,348,327. ONE-PIECE SLEEVE AND WAIST. SARA E. SLOAN, Denver, Colo. Filed Aug. 9, 1919. Serial No. 316,323. 2 Claims. (Cl. 2—98.)

2. A one-piece sleeve and waist pattern, comprising, when lying flat, a sleeve portion having two longitudinal edges and one free end, a waist-back portion extending laterally of one of said longitudinal edges, and a waist-front portion extending laterally of the other of said longitudinal edges, said sleeve portion being partially severed from said waist-back portion adjacent one of said longitudinal edges on a line substantially perpendicular to said one edge, and the waist-front portion being partially severed from the sleeve portion adjacent the other



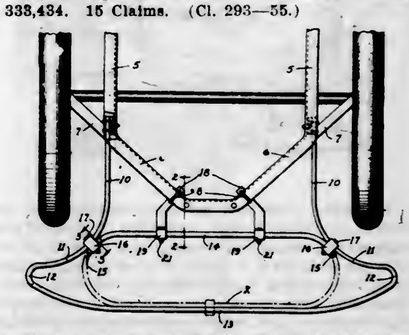
longitudinal edge on a line substantially parallel with said other edge.

1,348,328. METHOD OF MAKING RADIATING-CASINGS. CHARLES SONNEBORN, West Pittsburg, Pa., assignor to Pressed Metal Radiator Company, a Corporation of Pennsylvania. Original application filed Sept. 21, 1917, Serial No. 192,518. Divided and this application filed Nov. 21, 1917, Serial No. 203,126. Renewed Jan. 6, 1919. Serial No. 269,927. 11 Claims. (Cl. 113—112.)



1. In the method of making radiating casings, the steps which consist in pressing unit blanks to form thereon offset edge portions extending along one of their sides and across their ends, assembling a plurality of such units with the offset edge portions of adjacent units in contact, and welding together said offset portions to form a body having hollow radiating projections.

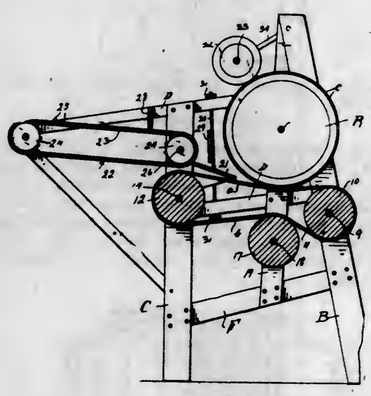
1,348,329. BUMPER FOR VEHICLES. LEWIS F. STAFFORD, Chicago, Ill. Filed Oct. 27, 1919. Serial No. 333,434. 15 Claims. (Cl. 293—55.)



9. The combination with a vehicle frame and springs, of a bumper comprising an outwardly bowed shock-re-

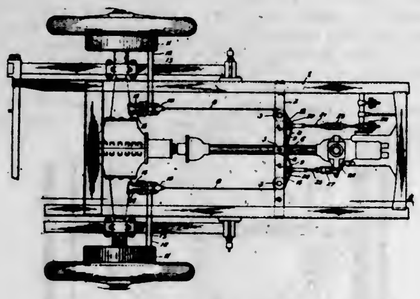
ceiving member, arms connecting said member to said vehicle frame, an oppositely bowed supplementary member slidably connected to said arms, and common devices for securing said springs and supplementary member to said frame.

1,348,330. PRINTING-MACHINE. JOHN AUG. STOLTMAN, Minto, N. D. Filed May 24, 1919. Serial No. 299,482. 3 Claims. (Cl. 101—85.)



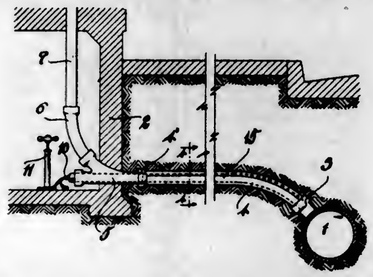
1. A machine of the class described comprising a printing member, an endless bed coacting with the printing member, means for moving said bed, an apron discharging upon the bed, a feed member discharging upon the apron, vertically adjustable rods supported at opposite sides of the apron in advance of the feed member, and a check board connected to said rods and extending across the apron and vertically spaced therefrom.

1,348,331. BRAKE MECHANISM FOR VEHICLES. MELVIN STRINGER, Cleveland, Ohio, assignor of one-fourth to George T. Bauder and one-fourth to Arthur E. Merkel, Cleveland, Ohio. Filed Jan. 9, 1920. Serial No. 350,330. 8 Claims. (Cl. 188—204.)



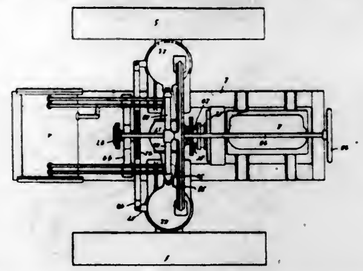
1. In a brake mechanism for motor vehicles, the combination of two brake drums; two pairs of braking members coöperating therewith, one pair to each drum; a foot-operated braking lever; a hand-operated emergency braking lever; two cables each having an end connected reapectively with both members of each end of said pairs of braking members; and means connecting said levers and cables, each of said levers being adapted to actuate its associated cable and both pairs of braking members.

1,348,332. SEWER-PIPE CONSTRUCTION. JOSEPH STREMEL, Spokane, Wash., assignor of one-half to Mrs. Eunice Asher, Spokane, Wash. Filed Nov. 5, 1919. Serial No. 335,973. 4 Claims. (Cl. 25—128.)



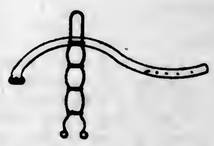
1. The method of constructing a conduit which consists in utilizing a trench with an open sheath therein, of depositing a layer of concrete material in the bottom of said sheath, of tamping same, and laying thereon a collapsible core, of depositing and tamping concrete material between said core and the side walls of said sheath and over and around the top of said core to form a unitary body, and turning the core inside out by pulling one end through the body of the core as its walls are disengaged from the interior of the conduit.

1,348,333. COMBINED LEVELING AND CUSHIONING DEVICE FOR TRACTION-ENGINES. CHARLES SWAN, Cleveland, Ohio. Filed Nov. 17, 1919. Serial No. 338,712. 13 Claims. (Cl. 180—41.)



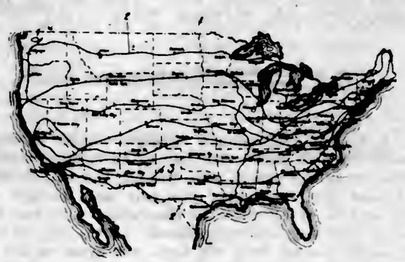
1. In a vehicle; the combination of a frame, wheels at opposite sides thereof, a vertical cylinder at each side of the frame, a piston working in each cylinder and supported by a wheel, and means to admit fluid pressure to one cylinder and exhaust it from the other to lower and raise the pistons and wheels respectively.

1,348,334. VEHICLE SAFETY BABY-HOLDER FOR USE WITH MOTOR-VEHICLES, BUGGIES, CARRIAGES, &c. HERVEY J. SWEYER, Circleville, Ohio. Filed July 30, 1919. Serial No. 314,580. 1 Claim. (Cl. 155—189.)



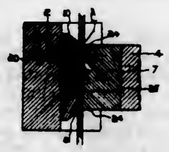
In a vehicle safety baby-holder, a piece of suitable material formed into a right angle and braced at a short distance from the free end of the upright of the angle where its outer edges are converged and clipped, then widened for a short distance, then narrowed and clipped again and so on until the free end of the other side or base of the angle has been reached; the upright of the angle having an inner and an outer concave curve.

1,348,335. GAME. HERBERT MILES THOMPSON, Foxcroft, Me. Filed Dec. 13, 1919. Serial No. 344,584. 1 Claim. (Cl. 46—21.)



Amusement apparatus comprising a game board having on one face thereof a map and having route lines indicated thereon leading from one side edge of the board to near the other side edge and traversing the principal points between said side edges and returning to the starting point over a different portion of the map, a series of continuous route lines being provided, the different route lines being of contrasting colors, and each line having at suitable intervals indicating marks dividing the route into equal divisions, sundry of the marks being of greater size than the others for the purpose of defining safety points, and sets of counters of different color for coöperating with the board.

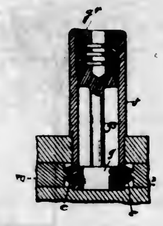
1,348,336. APPARATUS FOR THE MANUFACTURE OF LACE-TIPS. EDWIN F. TOMKINS, Coaticook, Quebec, Canada. Filed Nov. 19, 1919. Serial No. 339,098. 1 Claim. (Cl. 153—1.5.)



In a machine of the type described the combination with the machine frame and a carrier member slidably mounted thereon, of a pair of dies one being mounted upon the frame in fixed position and the other upon the carrier member and movable in unison therewith to and from the fixed die, each die having a concave matrix presenting a plurality of comparatively deep portions and shallow portions between the deep portions and at the ends thereof.

1,348,337. LOCK FOR AUTOMOBILES. CHARLES G. TROSIEN, Pontiac, Mich. Filed June 6, 1918. Serial No. 238,462. 1 Claim. (Cl. 70—126.)

In an apparatus of the kind described, a gear casing, two parallel rods adapted to reciprocate in said casing and to throw the mechanism in and out of engagement and provided with cavities on their adjacent sides, a lock casing perpendicular to the plane through the axes of said rods secured to the gear casing, an integral part adapted to rotate in said lock casing coaxial therewith, said part being formed to enter the cavities in said rods when turned to one angular position and to be withdrawn from said cavities when turned to another angular position, and means for engaging said part with said lock casing when



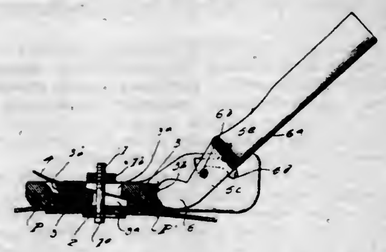
turned to the position to enter said cavities, said lock casing extending to the lower end of said rotating part to support the same, and being cut away to permit the engagement of said part with said rods for the purpose described.

1,348,338. CIRCUIT-CLOSING THERMOSTAT. JAMES N. VANDEGRIFT, Red Bank, N. J. Filed Feb. 17, 1919. Serial No. 277,434. 10 Claims. (Cl. 200—142.)



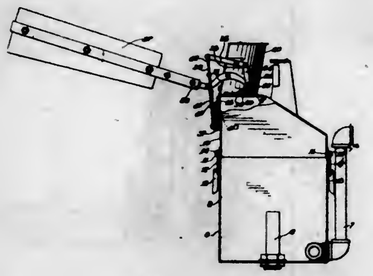
1. In a device of the character described, the combination of a cup-shaped receptacle through which the insulated wires of an electric circuit are adapted to be passed with a minor portion of the insulation on each wire within said receptacle removed, and a body of readily fusible metallic material mounted and retained above the de-insulated portions of said wires.

1,348,339. BOLTING-UP DEVICE. JAMES W. WARREN, Alexandria, Va. Filed Sept. 9, 1919. Serial No. 322,739. 15 Claims. (Cl. 29—84.)



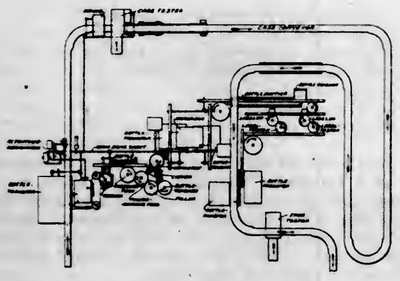
1. A bolting up device, comprising a bolt adapted to transfix the plates to be bolted up, and having a removable member engaged therewith at one side of the plates; a member on the bolt at the opposite side of said plates; and wedge means on said bolt engaging said last mentioned member and the adjacent plate and adapted to cause the bolt to bind the plates securely together.

1,348,340. TOE-STEAMER. THEODOR J. WILLMA, Milwaukee, Wis., assignor of one-eighth to Peter Waraxa and one-eighth to John T. Willma, Milwaukee, Wis. Filed May 5, 1919. Serial No. 294,723. 8 Claims. (Cl. 12—1.)



1. In a toe steaming device, the combination, with a steam box provided with an opening, of a movable shoe rest, and a valve at the opening and operatively connected to said rest and controlling said opening.

1,348,341. MACHINE FOR PACKAGING MATERIALS. ERASTUS E. WINKLEY, Lynn, Mass. Filed July 13, 1914. Serial No. 850,762. 31 Claims. (Cl. 226—1.)



1. A machine for packaging materials, comprising means for cleaning bottles, means for filling bottles, means for sealing bottles, connected mechanism constructed and arranged to cause the several means to operate automatically in timed relation, and means for performing a characteristic test upon the bottles to determine whether or not an operation preceding the testing operation has been properly performed.

2. A machine for packaging materials, comprising means for cleaning bottles, means for filling bottles, means for sealing bottles, means for sterilizing bottles, means for labeling bottles, connected mechanism constructed and arranged to cause the several means to operate automatically and in timed relation and means for detecting when the several means have functioned imperfectly.

3. A machine for packaging materials, comprising means for cleaning bottles, means for filling bottles, means for sealing bottles, means for sterilizing bottles, means for labeling bottles, connected mechanism constructed and arranged to cause the several means to operate automatically and in timed relation, and means for performing a characteristic test upon the bottles to determine whether a preceding operation has been properly performed.

4. A machine for packaging liquids comprising mechanism for performing a plurality of operations successively upon bottles, and means for transferring the bottles from containers to the mechanism initially, and for transferring the bottles from the mechanism to the containers at the conclusion of the operations.

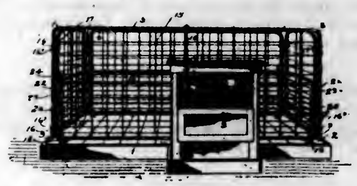
5. A machine for packaging materials comprising means for performing a plurality of operations successively upon bottles, mechanism for transferring the bottles from containers to the mechanism at the commencement of the operations and from the mechanism to the containers at the conclusion of the operations, and means for operating upon the empty containers during the performance of the operations upon the bottles.

1,348,342. WRENCH. PAUL R. ZIECHE, Moville township, Woodbury county, Iowa, assignor of one-half to Wood Haviland, Moville, Iowa. Filed Nov. 30, 1918. Serial No. 264,843. 2 Claims. (Cl. 81—131.)



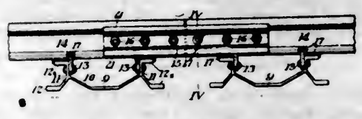
1. A wrench comprising a flat-sided handle having a laterally-disposed jaw, a jaw having an opening through which the handle passes, said opening and handle being so related that the second jaw may slide toward and from, and be at all times in parallelism with the first jaw, an adjusting handle positioned on the side of said first handle remote from the jaws, and arms on the adjusting handle extending across and disposed on opposite sides of said first handle and pivoted on the movable jaw, one of said handles being toothed and the other studded for engagement with the teeth.

1,348,343. STOCK-RACK. CHARLES P. ZIMMERMAN, Dayton, Ohio, assignor, by mesne assignments, to The Richmond-Standard Manufacturing Company, Richmond, Ind., a Corporation of Indiana. Filed July 17, 1916. Serial No. 109,703. 3 Claims. (Cl. 119—20.)



1. In a structure of the character described, parallel side panels, and end panels detachably connecting the side panels one with another, and bifurcated supporting chairs arranged with their bifurcations alined one with another and with the side panel to be engaged therein within which the lower margins of the side panels are loosely seated, said side panels being capable of oscillatory movement within such bifurcations.

1,348,344. RAIL-TIE. GEORGE H. BARBOUR, Pittsburgh, Pa. Filed Apr. 4, 1916. Serial No. 88,817. 5 Claims. (Cl. 238—64.)



1. A metallic rail-tie, comprising a base portion having upwardly bent portions which carry spaced apart upstanding flanges, whose upper portions are bent into substantially horizontal position to form rail-bearing members, said base portion having members which extend laterally beyond said flanges to provide increased ballast-bearing surface, substantially as described.

1,348,345. RAIL-JOINT. GEORGE H. BARBOUR, Pittsburgh, Pa. Filed Dec. 6, 1917. Serial No. 205,710. 4 Claims. (Cl. 238—243.)



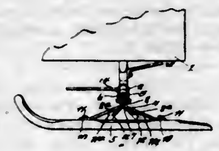
1. A joint plate or splice-bar for railway track rails, comprising a web having upper and lower projecting portions on its inner side, said portions having non-continuous rail bearing projections, substantially as described.

1,348,346. PROCESS OF WIRE-TYING BAGS. ADELMER MARCUS BATES, Chicago, Ill., assignor to Bates Valve Bag Company, Chicago, Ill., a Corporation of West Virginia. Filed Feb. 9, 1918. Serial No. 216,395. 2 Claims. (Cl. 140—93.)



1. The method of closing a bag which consists in placing a tie about its mouth, applying tension by pulling on the ends of such tie and during such tension and entirely independently of such pulling action rotating the ends by hand to tighten the tie about the bag.

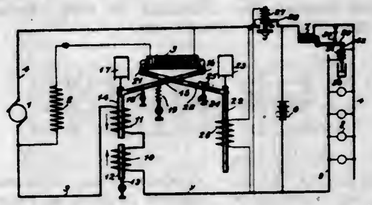
1,348,347. OSCILLATING BOB-KNEE FOR SLEIGH-RUNNERS. RICHARD BUBBRIDGE, Allison, Iowa. Filed Mar. 27, 1920. Serial No. 369,304. 2 Claims. (Cl. 280—27.)



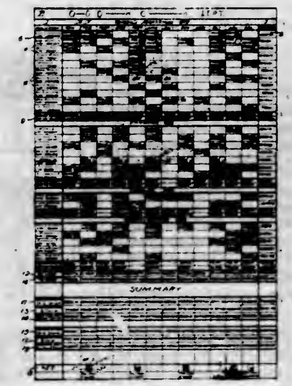
1. As a new article of manufacture, an oscillating bob knee constructed from a single piece of sheet metal rolled upon itself to form a conical sleeve for the reception of and engagement with the spindle of a vehicle axle, means for securing the opposing parts of the bob knee together at a point adjacent the sleeve, thereby reinforcing the sleeve, the other parts of the bob knee extending downwardly and diverging and forming supports, said supports being bent upon themselves to form right angle parts for reinforcing the knee, the terminals of the supports and the right angle parts terminating in forks, adapted to be secured to the upper edge and the sides of a runner.

1,348,348. ELECTRIC REGULATION. JOHN L. CREVELING, Tucson, Ariz., assignor to Gould Coupler Company, a Corporation of New York. Filed Mar. 14, 1916. Serial No. 84,183. 13 Claims. (Cl. 171—229.)

1. Means for regulating an electric circuit comprehending a regulating element affecting said circuit, operating means for affecting said element, responsive means for affecting the operating means comprising a plurality of electromagnetic means in series with each other responding to fluctuations to be regulated and coöperating to cause repulsion of the operating means to increase the regulating effect of the regulating element.

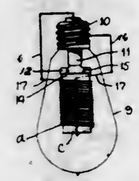


1,348,349. ADVERTISING-RECORD CHART. VICTOR L. CUNNYNGHAM, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 337,099. 2 Claims. (Cl. 283—1.)



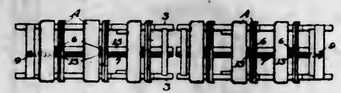
1. An advertising graphic record chart comprising geometrical indicia for the individual entries to be recorded, sub-divided into distinguishable areas, and with their different subdivisions differentiated geometrically; said indicia being arranged in inter-related groups comprising columns and lines corresponding to factors in the record to be produced, and being adapted by their collocation to develop a composite picture graphically expressing the aggregate effect of the items which they severally represent.

1,348,350. INCANDESCENT ELECTRIC LAMP. THERON DAVIS, New York, N. Y. Filed Nov. 14, 1917. Serial No. 202,048. 4 Claims. (Cl. 176—16.)



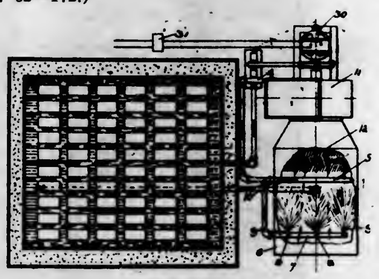
1. A lamp element for incandescent electric lamps comprising a thin flat highly refractory support formed of two thin sheets of material placed opposite each other, and a filament extending between the sheets and wound externally upon them.

1,348,351. APPARATUS FOR COATING CASTINGS. JOHN DIXON, Monaca, and JOHN M. SHAFFER, New Brighton, Pa., assignors to United States Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 30, 1920. Serial No. 355,238. 6 Claims. (Cl. 91—60.)



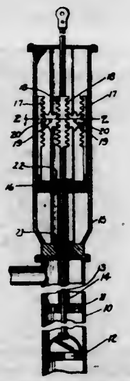
1. Apparatus for use in coating castings, comprising a supporting device having supports arranged in pairs and arranged to support two castings in oppositely inclined positions, and other supporting members arranged intermediate the supports of each pair of the first named supports and adapted to hold said castings in other positions, substantially as described.

1,348,352. METHOD OF AND APPARATUS FOR MAKING ICE. WILLIAM D. EDWARDS, Maywood, Ill., assignor of one-half to Harry W. Page, Maywood, Ill. Filed Feb. 12, 1917. Serial No. 148,053. 8 Claims. (Cl. 62—172.)



1. The method of producing ice which consists in immersing a container for water to be frozen in a brine bath, circulating the brine through a heat interchanger having a wet exterior surface, and causing cold air to flow over said heat interchanger.

1,348,353. DOUBLE-ACTION PUMP. VERLA L. FORMWAY and SAMUEL S. SLONEKER, Plainview, Tex. Filed Nov. 18, 1918. Serial No. 263,051. 1 Claim. (Cl. 103—82.)



In a device of the character described, a well tube, a tubular housing carried by the well tube, the housing having vertically extending side extensions, upper and lower valves slidably mounted in the well tube, a disk slidably mounted in the housing and having side arms extending into the side extensions of the housing to retain the disk against rotary movement, rack bars extending from the arms of the disk through the side extensions of the housing, a hollow rod extending from the disk into the well tube and engaging the upper valve, a pump rod extending from the lower valve through the hollow rod and through the housing and provided with rack teeth positioned between the racks of the disk, and rotatably mounted pinions positioned between and engaged by the racks of the pump rod and disk.

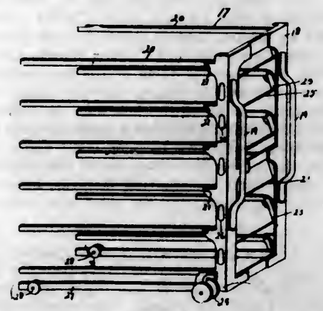
1,348,354. ICE-CAN. THOMAS W. GARNETT and FRED EMANUEL TORGLER, Topeka, Kans. Filed July 29, 1919. Serial No. 314,083. 3 Claims. (Cl. 220—4.)



1. A knock down ice mold comprising a rectangular body portion, which is divided longitudinally into two complemental U shaped sections, adapted to be nested in each other, means for detachably connecting the meeting edges of the sections to form a hollow body for the mold, a bottom plate having marginal portions constructed to receive and interlock with the edges of the body, and means for detachably securing the bottom plate to the body of the mold.

2. A knock down ice mold comprising a rectangular body portion which is divided longitudinally into two complemental U shaped sections adapted to be nested in each other, the meeting edges of the sections overlapping each other when the sections are operatively assembled, fastening members detachably connecting the overlapping edges of the sections, a bottom plate formed with a marginal channel flange receiving the lower edges of the body sections, and means for detachably securing the bottom plate to the body sections.

1,348,355. BAKING-OVEN AND LOADING DEVICE THEREFOR. GEORGE L. GAY, Philadelphia, Pa., assignor of one-half to FRANK WHITTMANN, Philadelphia, Pa. Filed May 17, 1919. Serial No. 297,810. 6 Claims. (Cl. 107—56.)



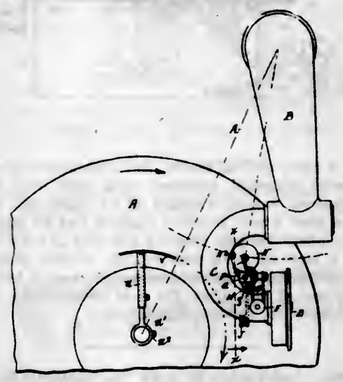
1. In combination with a baking oven, a loading device consisting of a frame mounted upon suitable wheels,

rack arms attached at their inner ends to said frame their outer ends being free, and means for raising and lowering the device.

1,348,356. PROCESS OF REDUCING TUNGSTEN ORES. DAVID J. GILES, McKeesport, Pa. Filed May 3, 1919. Serial No. 294,549. 5 Claims. (Cl. 75—17.)

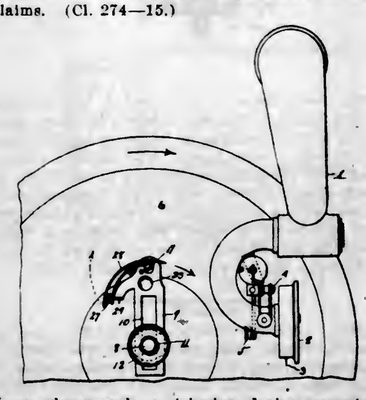
5. The process of producing tungsten from impure ores of the character described, which consists in treating the ground ore with carbon at a temperature below the fusing point of the mass to thereby reduce the metal constituents, treating the reduced mass with acid to dissolve out the impurity metals, separating the solution from the solid tungsten compound, and treating said solution to recover the impurity metals therefrom.

1,348,357. PHONOGRAPH. JOHN B. GRIFFIN, Maple Hill, Conn. Filed July 22, 1918. Serial No. 246,022. 13 Claims. (Cl. 274—15.)



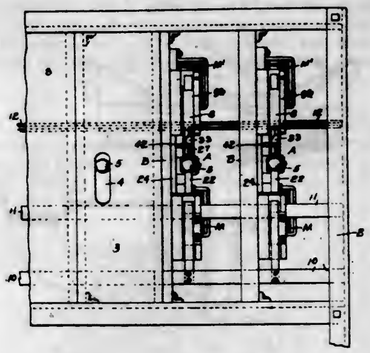
1. In combination with a phonograph reproducer, a detachable clamp adapted to be atached to the gooseneck of a phonograph reproducer arm, a perpendicular rod carried thereby vertically movable therein, a roller carried at the lower extremity of said rod, means for automatically bringing the roller into contact with the surface of the record, means for adjusting the roller so it will travel outward on the record any desired distance, and means for automatically lifting it therefrom.

1,348,358. FLEXIBLE TRIPPING DEVICE FOR PHONOGRAPHS. JOHN B. GRIFFIN, Maple Hill, Newington, Conn. Filed Dec. 22, 1919. Serial No. 346,608. 8 Claims. (Cl. 274—15.)



1. In a phonograph, a tripping device comprising a radial arm mounted on the axle of the record for rotation therewith, a tripping head carried by said arm in such a manner as to yield outwardly therefrom.

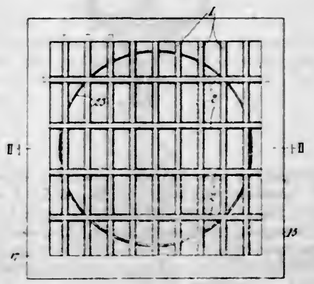
1,348,359. AUTOMATIC-CIRCUIT-BREAKER SWITCHBOARD. JOHN P. HAYES and JOHN E. BARNHART, Pittsburgh, Pa. Filed Feb. 4, 1919. Serial No. 274,839. 10 Claims. (Cl. 175—298.)



1. A circuit breaker consisting of a pivoted spring-retracted switch member having a circuit closing element and provided with a pivoted spring-actuated abutment dog, a pivoted holding and releasing trigger therefor, a compound toggle jointed lever adapted to engage and disengage the abutment dog, an operating handle therefor, and an actuating device for the releasing trigger.

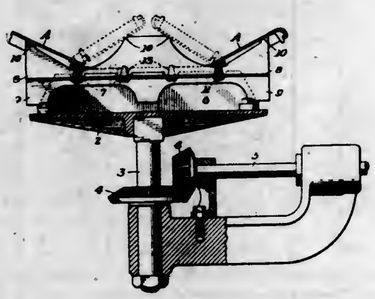
9. In combination with a vertically arranged panel board and a bus bar passing transversely therethrough having a terminal adapted to be connected with an adjacent spaced terminal; a rotatable circuit breaker pivotally mounted on the face of the panel board having a retracting spring, a switch element adapted to engage said terminals, a pivoted notched abutment dog, a pivoted releasing trigger therefor, a pivoted operating handle and a toggle jointed compound lever arm therefor, an operating handle for said lever, and a magnetically actuated releasing mechanism for the lever.

1,348,360. REGISTER OR GRILL. EDWARD DAWSON HOWELL, Springfield, N. Y., assignor to Tuttle Bailey Mfg. Co., New York, N. Y., a Corporation of New York. Filed Dec. 10, 1919. Serial No. 343,868. 14 Claims. (Cl. 98—49.)



12. A register or grill for covering openings, comprising a series of channel bars, elongated in cross section, and having a series of notches therein, and a series of cross channel bars seated in the notches in said first named series of channel bars, and a collar soldered to the under side of said cross bars and reinforcing the register.

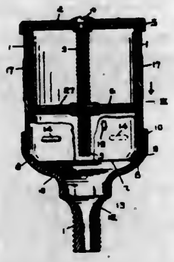
1,348,361. METHOD AND APPARATUS FOR COATING OR ENAMELING METAL. JOHN S. JOBE, Rochester, and JOHN DIXON, Monaca, Pa., assignors to United States Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1919. Serial No. 343,774. 7 Claims. (Cl. 91—61.)



1. In the art of coating metal castings, the method which consists in supporting the casting to be coated in an inclined position with one of its surfaces exposed to coating operations, coating such surface, and then turning the casting into a reverse inclined position to expose its other surface without removing it from its support and coating such other surface, substantially as described.

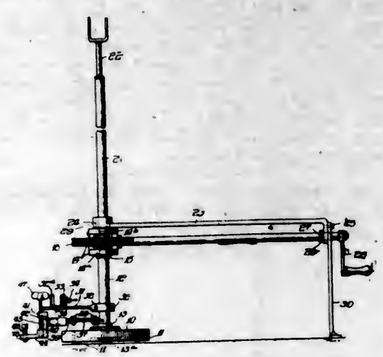
7. Apparatus for coating castings comprising a supporting device having supports for holding a plurality of castings each in different inclined positions and to permit the castings to be turned thereon without removal from one of such positions to the other, substantially as described.

1,348,362. GREASE-CUP. ELI W. K'BURG, Toledo, Ohio. Filed Dec. 12, 1917. Serial No. 206,827. 2 Claims. (Cl. 184—38.)



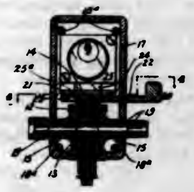
1. A grease cup base having a mounting stem, a grease reservoir mountable on said base to provide a single wall grease cup, the mounting and reservoir having endless annular opposing tapering seats, there being means adjacent said seats coacting as a wedge holder between the mounting and reservoir in impinging said tapering seats against each other comprising a projection and an opposing wedge guide directly packing said mounting and reservoir at said seat against grease escape from the reservoir past said seats, a piston within the reservoir for applying grease pressure in the reservoir in the region of said seats in the expulsion of grease through the mounting stem, and means remote from the base and movable independently of the reservoir and base holding means for actuating said piston.

1,348,363. OXYACETYLENE CUTTING-MACHINE FOR CIRCULAR PLATES. FRANK KILTS and LOUIS A. PARADIS, Chicago, Ill. Filed May 5, 1919. Serial No. 294,889. 5 Claims. (Cl. 266—23.)



4. In a plate cutting device, the combination of a base, a rotatable standard mounted upon said base, a gear wheel secured to said standard at its upper end, a shaft having a gear wheel mounted thereon and in mesh with said first mentioned gear wheel, a plurality of arms for supporting a blow torch in position, one of said arms being adjustable vertically on said standard, and a holder secured to one of said arms, the said holder being capable of adjustment to various angles.

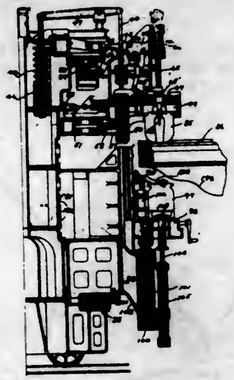
1,348,364. VALVE-LOCK FOR AUTOMOBILES AND THE LIKE. JOHN F. KOEBEL, Buffalo, N. Y. Filed Apr. 14, 1919. Serial No. 289,942. 2 Claims. (Cl. 251—6.)



2. The combination of a valve-case having oppositely-extending branches, a unitary housing inclosing said valve-case and having openings in its walls for the passage of said branches, a valve in said case having a stem, an operating lever applied to said stem and extending through the wall of said housing, and a lock arranged above said valve and having a locking bolt movable parallel with the axis of said valve to engage said lever, said valve, said lock and the part of said valve-stem between the valve and the lock being located wholly within said casing.

1,348,365. GLASS-FORMING MACHINE. RICHARD LA FRANCE, Toledo, Ohio, assignor to The Owens Bottle Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 4, 1917. Serial No. 189,458. 17 Claims. (Cl. 49—5.)

1. The combination with a finishing mold, of a holding device to engage an article in the mold and hold it during the opening of the mold, a piston motor, and means operated and controlled thereby to move the holding device laterally to a position over said article during a portion



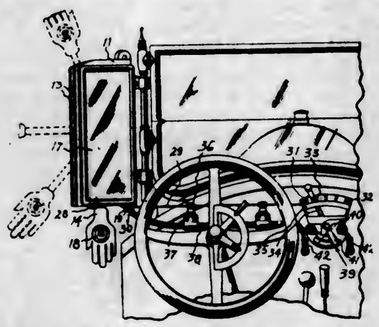
of the piston stroke and downward into engagement with said article during another portion of said stroke.

1,348,366. WRENCH. RUDOLPH LEHNHOFF, Burnham, Ill. Filed May 23, 1919. Serial No. 299,194. 5 Claims. (Cl. 81—157.)



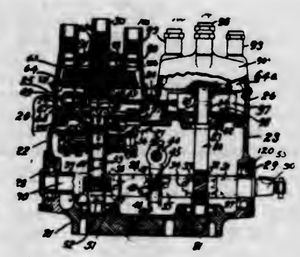
1. In a wrench of the kind described, two relatively movable members, a screw and rack connection for relatively moving members and for holding them in relatively adjusted positions, trigger means for locking the screw in the rack and for swinging the screw out of the rack, a spring resisting separation of the jaws of the wrench, and a friction member movable by said trigger for controlling the closing action of said spring.

1,348,367. AUTOMOBILE TRAFFIC-SIGNAL. SHIGERU MASUMOTO, Los Angeles, Calif. Filed Dec. 11, 1919. Serial No. 344,047. 1 Claim. (Cl. 116—51.)



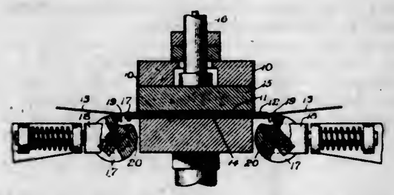
In a vehicle signal, the combination with a casing, of guide members integral with the casing, an arm pivotally mounted within the casing and adapted to swing between said guides, a signal blade disposed on the outer end of said arm, stop-pins holding the guide members in a spaced apart position and limiting the swinging movement of the arm, a pinion member integral with and forming the inner end of the arm, a train of gears mounted within the casing and adapted to operate the pinion member, a rack member to operate the train of gears and disposed longitudinally within the casing, a pin extending transversely within the casing, a pulley at the top of the casing, a coil spring having one end connected to one of the transverse pins, a cable passing over the pulley and having one extremity connected to the spring and the other extremity connected to the rack member, and means for operating the rack member with a reciprocating movement.

1,348,368. IGNITION APPARATUS. WILLIAM H. MOONEY, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Mar. 23, 1918. Serial No. 224,299. 13 Claims. (Cl. 200—22.)



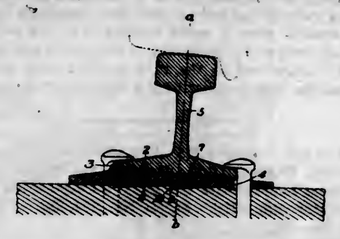
10. In an ignition unit, the combination of a housing having a base and side and end walls, and a bridge member located above the base and connecting the side walls, and a top wall provided with apertures surrounded by flanges for supporting certain of an interchangeable set of distributer heads; a driving shaft supported by the end walls; a plurality of driven shafts geared to the driving shaft and having bearings in the base; bearing plates supported by the end walls and the bridge member, and carrying other bearings for the driven shafts, said bearing plates and bridge member forming a partition dividing the housing into chambers; controlling devices for the driving mechanism located in the lower chamber; ignition timing devices located in the upper chamber, including movable members operably associated with one of the driven shafts and rotors actuated by the driven shafts adapted to cooperate with distributer heads mounted on the housing.

1,348,369. EXTENSION-BOTTOM-BOX-WRAPPING APPARATUS. ALFRED J. MORRISON, Denver, Colo., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 26, 1919. Serial No. 326,508. 7 Claims. (Cl. 93—54.)



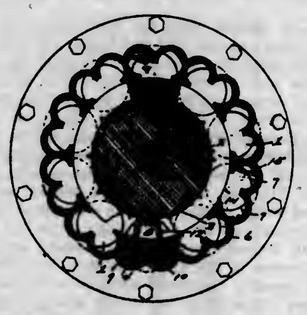
1. In a machine for wrapping extension bottom boxes adapted to pass the box, bottom first, through wrapping mechanism, means operated by the passage of the box to apply the wrapper to the upper face of the extension edge of the box bottom by substantially rolling pressure.

1,348,370. TIE-PLATE. ANDREW MORRISON, Pittsburgh, Pa., assignor to Dilworth-Porter & Company, Incorporated, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 11, 1920. Serial No. 388,105. 3 Claims. (Cl. 238—298.)



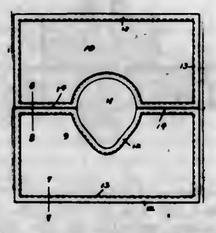
1. A tie-plate for railway rails having an upper rail seat normal to the line of thrust of the standard coned tread car-wheel and having a series of wide lower bearing surfaces upwardly and inwardly inclined at an oblique angle to the rail seat, said upwardly inclined surfaces being connected by abruptly upwardly and outwardly extending surfaces, said surfaces being gradually merged into each other by convex rounded portions forming anti-cutting edges, substantially as described.

1,348,371. GUIDEWAY AND SLIDING MEMBER THEREFOR. PETER W. MURPHY, Detroit, Mich., assignor to The Murphy Engineering Company, Detroit, Mich., a Corporation of Michigan. Filed May 27, 1918. Serial No. 236,754. 4 Claims. (Cl. 74—85.)



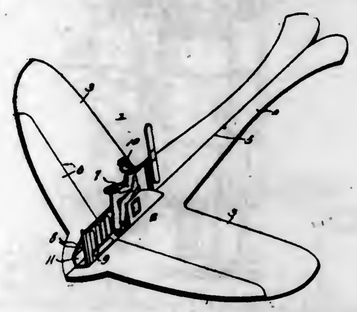
1. A piston rod supporting slide and guideway therefor comprising a slidable member having two connected cylindrical portions with a central depression between them, and a slideway comprising two semicircular grooves adapted to fit said cylindrical portions and having a central portion which extends into said central depression between the cylindrical portions of the slide.

1,348,372. INFANT'S TOILET-SEAT. FRANK M. OAKES, Sioux City, Iowa. Filed Apr. 22, 1919. Serial No. 291,921. 2 Claims. (Cl. 4—18.)



1. A toilet seat comprising a board having an opening and adapted to be mounted on the usual toilet seat, and elastic straps having their end portions secured to the board whereby the usual seat may be positioned between the board and the straps.

1,348,373. TOY AEROPLANE. PERCY PIRACE, Dayton, Ohio. Filed Mar. 6, 1919. Serial No. 280,897. 4 Claims. (Cl. 244—12.)



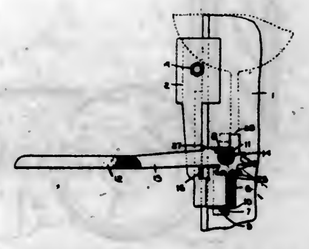
1. A toy aeroplane comprising a blank of sheet material formed to produce integral body, wing and tail portions, and a second blank of sheet material forming a launching medium shaped to provide motor and aviator simulating portions, the latter being bent to present duplicate sides, which terminate at their lower edges in a horizontal securing portion, said latter being suitably secured to said former blank.

1,348,374. AIRPLANE CONSTRUCTION. FRANCIS J. PLYM, Niles, Mich., assignor to Kawneer Manufacturing Company, Niles, Mich., a Corporation of Michigan. Filed Sept. 19, 1917. Serial No. 192,044. 15 Claims. (Cl. 244—31.)



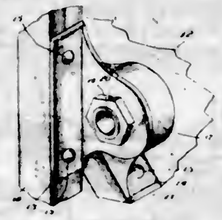
4. In a device of the class described, a leading edge plate having a plurality of laterally extending ribs on its under surface.

1,348,375. FOLDING SEAT. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 4, 1920 Serial No. 363,230. 7 Claims. (Cl. 155—80.)



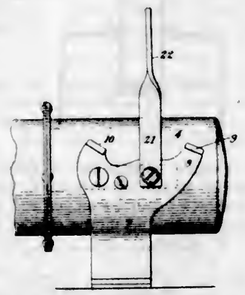
1. A folding seat comprising a bracket and means for attaching it to a machine frame, a support mounted in the bracket for rotation about a vertical axis, a seat provided with an arm mounted on the support for rotation about a horizontal axis, and gearing connections between the arm and the bracket acting upon rotation of the arm to effect the rotation of the support.

1,348,376. WINDSHIELD-HINGE. SAMUEL ROSENBERG, Chicago, Ill.; Dora Rosenberg administratrix of said Samuel Rosenberg, deceased. Filed June 14, 1919. Serial No. 304,142. 7 Claims. (Cl. 296—92.)



5. A wind shield hinge comprising a hinge member having a polygonal projection, the sides of the polygon being slightly concave, and an opening in the center of said projection, a series of elements corresponding in number with the sides of the polygon, the assembled series comprising an annulus adapted to encircle the projection, each of said elements having an inwardly directed face corresponding with a side of the polygon and a lug projecting from a side thereof, an expansible spring encircling the series, a second hinge member having a post adapted to journal within said opening, and a series of channels adapted to receive said lugs and prevent movement of rotation between itself and the series of elements but to permit radial movement of the elements.

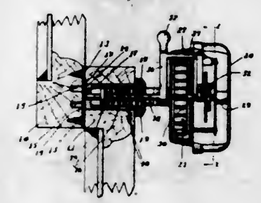
1,348,377. MECHANICALLY-ACTUATED HORN. GEORGE J. SEISS, Toledo, Ohio. Filed Apr. 30, 1918. Serial No. 231,729. 2 Claims. (Cl. 116—144.)



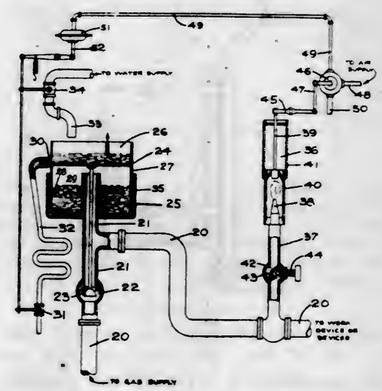
1. In a signal, a hollow body, a diaphragm therein, a bracket having arms partially embracing the body, a shaft rotatably mounted in the body and having means for vibrating the diaphragm, a manually operated oscillatable device having means for rotating the shaft, a member on the rearward end of one of the arms, a member on the forward end of said arms, and projections on the said members to engage and limit the movement of said oscillatable device.

1,348,378. MECHANICAL BURGLAR-ALARM. GENNADY G. SHILOFF, New York, N. Y. Filed June 14, 1919. Serial No. 304,177. 1 Claim. (Cl. 116—16.)

In a burglar alarm, a cylindrical casing closed at one end, a removable cap closing the opposite end of said casing, a bar formed with said cap and having its ends projecting beyond the sides of said cap, a bell supported by said bar, a plunger slidable in said casing and extending through said cap, the closed end of the said casing having an opening through which the inner end of the said plunger is adapted to extend, a spring in said casing tending to force the inner end of the said plunger through the said opening, an arm carried by said plunger and extending into said bell, mechanism in said bell for ringing the latter and including a star wheel and a hammer bar, the said arm locking the said star wheel and hammer bar against operation when the plunger is retracted and releasing the said star wheel and hammer bar for operation when the plunger is moved by said spring.



1,348,379. SYSTEM OF GAS CONTROL. HARRY F. SMITH, Lexington, Ohio, assignor to The Smith Gas Engineering Company, a Corporation of Ohio. Filed Jan. 22, 1917. Serial No. 143,781. 2 Claims. (Cl. 236—1.)

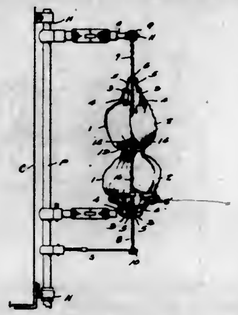


1. In a system for distributing a combustible fluid, the combination with a main adapted to convey the fluid from a source of supply to a place of use; of a valve adapted to control the flow of fluid through the main; a gasometer associated with said valve, the upper bell thereof having a fluid reservoir thereon, and being operatively connected to the stem of said valve; means for supplying a fluid to said reservoir, and other means for permitting the escape of fluid from the reservoir, pressure operated means adapted to operate each of said last named means to cause a flow of fluid to or from said reservoir; means for actuating said pressure operated means; and thermostatic means, responsive to the heat generated by burning a portion of the combustible fluid, for causing said pressure operated means to function.

1,348,380. RAILWAY MAIL-DELIVERY. HERBERT E. SMITH, Spokane, Wash., assignor to Spokane Mail Equipment Company, Spokane, Wash. Filed Oct. 21, 1918. Serial No. 259,050. 2 Claims. (Cl. 258—26.)

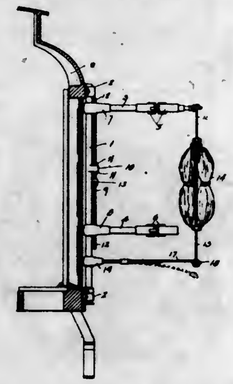
1. In a railway mail exchange, the combination with upper and lower supporting members, of a suspending chain, spaced devices on said chain for supporting the mail pouch, means adapted to encircle the porch and be

attached to said chain, for imposing the weight of the pouch directly on the chain, and a shock absorbing cushion



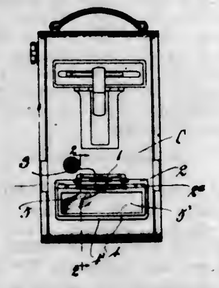
forming part of the chain located between the spaced devices to allow slack in the pouches.

1,348,381. RAILWAY MAIL-DELIVERY. HERBERT E. SMITH, Spokane, Wash., assignor to Spokane Mail Equipment Company, Spokane, Wash. Filed Oct. 21, 1918. Serial No. 259,051. 4 Claims. (Cl. 258—26.)



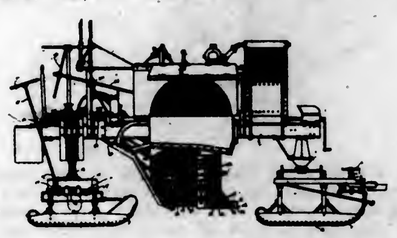
1. The combination in a railway mail exchange with the revoluble standard of a pair of vertically movable receiving arms and a delivery arm, means on one of the receiving arms to co-act with the delivery arm for suspending a pouch to be delivered, and positive means for adjusting the receiving arms.

1,348,382. EXPOSURE-TABLE. LOUIS SMITH, Hillyard, Wash. Filed Jan. 24 1920. Serial No. 353,769. 3 Claims. (Cl. 40—10.)



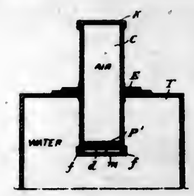
1. The combination with the camera and a fixed base plate, of a parallel offset frame plate hinged to the base plate and a cover frame hinged with a spring joint to the frame plate forming a casing, data cards in the casing, and means therein for holding said cards.

1,348,383. ROTARY SNOW-PLOW AND SNOW-LOADER. WALTER LESLIE STADIG, St. Francis, Me. Filed Aug. 15, 1918. Serial No. 250,075. 4 Claims. (Cl. 37—63.)



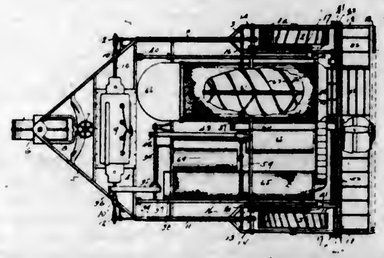
1. In a snow plow, a frame supported on suitable running gear, a cutter chamber, a plow supported from said frame, a rotary cutter supported and driven from said frame and situated to the rear of said plow, and a semi-circular hood extending from the rear wall of said chamber and terminating above said plow.

1,348,384. ANTIBURSTING AND ANTISHOCK DEVICE FOR TANKS, PIPES, &c. JOHN VERRE, Philadelphia, Pa. Filed Feb. 5, 1919. Serial No. 275,238. 3 Claims. (Cl. 137—71.)



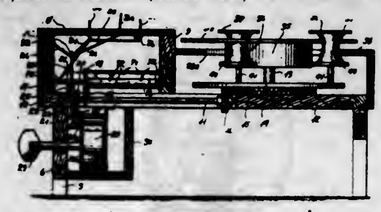
1. An air chamber cylindrical in shape, screwed or otherwise attached to the top of a tank, having its lower end within the tank; and its upper end out of it and tightly closed by a cap and means closing the lower end.

1,348,385. MOTOR-VEHICLE. HARDIN E. WINSLOW, Spokane, Wash., assignor of one-fourth to Rolla C. Wisner, Spokane, Wash. Filed Mar. 1, 1919. Serial No. 280,105. 3 Claims. (Cl. 180—27.)



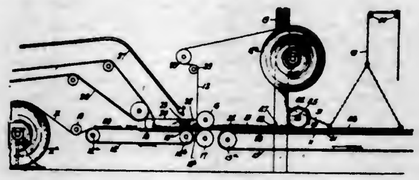
1. The combination in a tractor of an open rectangular frame having attaching means for receiving and supporting a superstructure, and a pair of side traction wheels journaled in said frame, of a rear V-shape frame and a steering mechanism and wheel supported therein, a motor supported on the V-shape frame, and means for transmitting power from said motor to the traction wheels.

1,348,386. MECHANICAL TOY. PIOTR WRONOWSKI, Youngstown, Ohio. Filed Feb. 17, 1920. Serial No. 359,298. 1 Claim. (Cl. 46—40.)



A device of the class described comprising a frame, a spring motor mounted therein, a gear driven by said motor, a relatively long shaft having a gear at each end, one of said last-named gears being in mesh with said first-named gear, a disk pivotally mounted in horizontal position and having an annular rack on the bottom thereof, the other gear on said long shaft lying in mesh with said rack, a plurality of drums pivotally mounted upon said disk, an upright extending rigidly from the center of said disk, a circular platform mounted rigidly in horizontal position upon said upright, a cylindrical member on the underside of said platform concentric therewith, said drums having pivotal contact with said member, openings in said platform, said drums extending upward through said openings, figures mounted upon the tops of said drums, a plurality of figures representing musicians mounted upon said frame, each of said musicians having one arm pivotally attached to the body, cords attached to said arms, a lever pivotally mounted in said frame adjacent said shaft, one end of said lever being forked, said cords connected to the other end of said lever, a wheel pivotally mounted in said frame and rotatable by said motor, spaced apart projections on the periphery of said wheel, said forked end of said lever lying in the path of said projections, resilient means urigng said forked end against said wheel, and means for turning said motor.

1,348,387. ART OF MAKING PLASTER-BOARD. MORGAN K. ARMSTRONG, Winnetka, Ill., assignor to Bestwall Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 15, 1919. Serial No. 282,837. 4 Claims. (Cl. 154—1.)



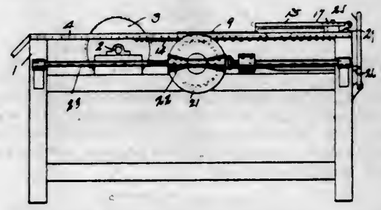
1. The continuous process of making plaster board, which consists of advancing a bottom sheet of fibrous material, of superposing thereon a plastic mixture to form the body of the board, of confining said plastic mix in such a manner on said bottom sheet as to leave marginal parts of said sheet exposed at each side of the same beyond the intended width of the plaster board, of superposing a narrower top sheet of fibrous material on said plastic mix and at the same time spreading the plastic mix evenly over the bottom sheet to the intended thickness of the board, of turning over the projecting marginal parts of the bottom sheet to overlap the marginal parts of the top sheet, first spreading on said projecting parts a small amount of plaster so that said small amount is turned over with the said projecting marginal parts of the bottom sheet upon the marginal parts of the top sheet, the turning-over process being continued so as to depress the marginal parts of the top sheet, and of ironing out and smoothing the board to thoroughly adhere the top and bottom sheets to the body.

1,348,388. WATCH-BOW. HAROLD P. BAILEY, Franklin, N. H. Filed Oct. 15, 1919. Serial No. 330,777. 1 Claim. (Cl. 58—96.)



In a watch, the combination with a case, a tubular pendant projecting therefrom and threaded around its outer end and having an outwardly facing shoulder near its inner end, and the setting mechanism including a stem projecting through the pendant end having a crown at its outer end; of a nut on said threads beneath the crown, a sleeve revolvably mounted on the pendant between its shoulder and said nut, the sleeve having sockets in its opposite sides, and a bow consisting of a split ring whose extremities are mounted in said sockets.

1,348,389. PUSHER-FEED FOR GANG-SAWS. HERBERT L. BARRETT, Opportunity, Wash. Filed July 14, 1919. Serial No. 310,568. 3 Claims. (Cl. 143—51.)



1. The combination in a gang saw machine with the grooved table, of a plurality of pusher feed arms forming a carriage, and an adjustable pusher bar bodily movable with the carriage and pivoted to swing in the plane of the table-top, pivotal connections between each feed arm and said bar, and means for reciprocating said carriage.

1,348,390. TORCH DISTRIBUTER-HEAD. EMIL L. CLAUS, Milwaukee, Wis. Filed July 26, 1919. Serial No. 313,461. 4 Claims. (Cl. 158—115.)



1. A distributer member comprising a sleeve provided with a series of apertures open at the inner periphery of the sleeve and a core cylinder secured in the sleeve and provided with grooves extending spirally in its peripheral surface, each of said grooves being closed by the sleeve and having one end portion in communication with a corresponding aperture of the sleeve.

1,348,391. REFILLABLE FUSE-PLUG. JOHN G. CLEMENS, Buffalo, N. Y., assignor to Clemens Electrical Corporation, Buffalo, N. Y., a Corporation of New York. Filed July 9, 1919. Serial No. 309,606. 6 Claims. (Cl. 200—130.)

1. In a fuse plug, a fuse chamber having an opening in one wall thereof, a fuse element removably inserted

through the opening and having a contact head, and means interposed between the contact head and the said



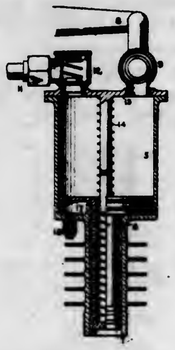
wall of the chamber for sealing the space around said opening.

1,348,392. SHOE-FASTENER. CHARLES M. COOK, Rochester, N. H. Filed Jan. 21, 1919. Serial No. 272,378. 2 Claims. (Cl. 24—205.)



1. The combination with a shoe having a tongue, of a quick closing shoe fastener having a slider connected to operate it, a plate carried by the upper end of said tongue, and an aperture and stud carried one by the plate and the other on the slider and adapted for interlocking engagement to hold the slider in elevated position and the tongue against lateral movement.

1,348,393. INTERNAL-COMBUSTION ENGINE. WILFRED BERRETON CROFTON, Yeoville, Johannesburg, South Africa. Filed May 22, 1918. Serial No. 236,017. 4 Claims. (Cl. 123—59.)



1. In combination with a multi-cylinder four-stroke internal combustion engine, a compressor device having a piston exposed to the explosion in an engine cylinder and thereby driven on its working stroke, said compressor drawing gas from a suitable source such as the engine inlet manifold, and delivering its charge to another engine cylinder to be compressed for ignition therein.

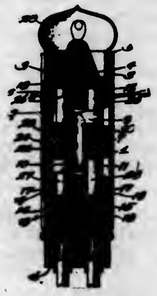
1,348,394. CIRCUIT-CONTINUING DEVICE. HARRY A. DOUGLAS, Bronson, Mich. Filed Aug. 15, 1918, Serial No. 250,021. Renewed Jan. 19, 1920. Serial No. 352,777. 12 Claims. (Cl. 173—328.)

9. A circuit continuing device including co-axial cylindrical contact carrier and socket members in rotative engagement; engageable contacts, one on each member, at the axis of the socket, one of these contacts being a spring contact exerting pressure transversely of the socket upon



the other contact upon one side of the axis of rotative movement to effect rotative movement of the contact carrier with respect to the socket.

1,348,395. CIRCUIT-CONTINUING DEVICE. HARRY A. DOUGLAS, Bronson, Mich. Filed Aug. 15, 1918, Serial No. 250,020. Renewed Jan. 19, 1920. Serial No. 352,637. 23 Claims. (Cl. 173—328.



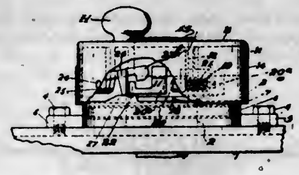
1. A circuit continuing device including a shell; a contact carrier surrounded by the shell and having bayonet projection and channel connection therewith, a portion of the bayonet channel leading to the inner or transverse portion sloping inwardly away from the inner termination of the bayonet channel; a second contact carrier connected with the shell; and contacts upon the adjacent ends of said carriers, a contact upon one carrier being in the form of a leaf spring disposed to press toward the outer portion of the bayonet channel and transversely of the shell upon the complemental contact upon the other carrier when the bayonet projection is in the sloping portion and the transverse portion of the bayonet channel.

1,348,396. THRESHOLD. ADELARD J. DUBEE, Glens Falls, N. Y. Filed June 6, 1919. Serial No. 302,286. 10 Claims. (Cl. 20—64.)



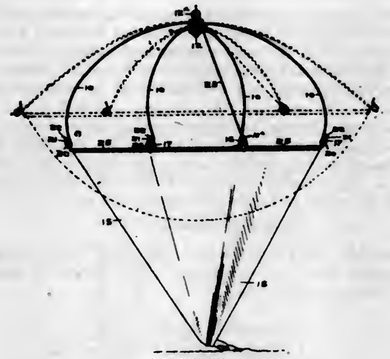
1. A threshold, a plate below the same provided with a row of holes at different distances from its margins, and screws engaging the threshold and the holes for attaching the plate to the threshold so that it shall project beyond or stand inset from the margin of the threshold, as desired.

1,348,397. ELECTRIC CONTROLLER. ROBERT R. DUNLOP, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Sept. 28, 1916. Serial No. 122,709. 8 Claims. (Cl. 200—9.)



8. In an electric controller, the combination with a rotatable cylinder, of a handle connected to rotate said cylinder and arranged for limited freedom of motion relative thereto, an electric switch adapted to be actuated by the free movement of said handle before the cylinder is moved in either direction.

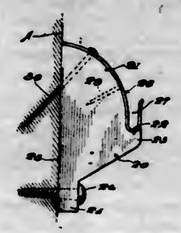
1,348,398. COLLAPSIBLE MINNOW-NET. FERDINAND EBERHARDT, Indianapolis, Ind., assignor to Compac Tent Company, Indianapolis, Ind., a Corporation of Indiana. Filed Nov. 25, 1916. Serial No. 133,434. 2 Claims. (Cl. 43—9.)



2. A device of the above described class comprising a collapsible frame composed of a plurality of ribs, a cord guide on said frame, means for securing one end of the ribs together, a net, means carried by one of the ribs for permanently connecting the net, recesses formed on the outer ends of the remaining ribs for detachably securing the net, and an operating cord connected at one of its ends to the net and the other end extending along the edge of the net to approximately the point of connecting the cord and thence extending through the cord-guide on the frame, for gathering together the edge of the net when the latter is disengaged from the frame.

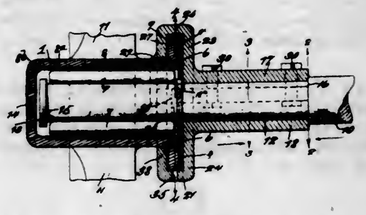
1,348,399. SUPPORTING-BRACKET. JOHN H. ROWLER, Lewistown, Pa. Filed Oct. 11, 1919. Serial No. 329,928. 11 Claims. (Cl. 156—24.)

11. In a supporting bracket, the combination of a wooden body including a lateral extension upon its outer edge having an upper concaved edge, a depending extension on its lower edge, an attaching member extending through said depending extension at right angles to the back of the body, the outer edge of said body leading to said concaved edge being convexly curved, a metal strip lying in facial abutment with said curved portion and being shaped to form a socket resting upon said con-



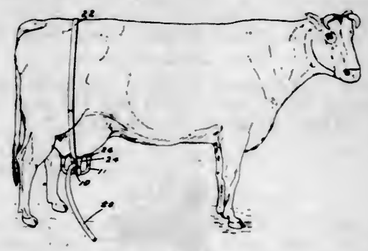
caved edge, and a second attaching member extending through said metal strip and said body at an oblique angle to the first named attaching member.

1,348,400. JOURNAL FOR CAR-WHEELS FOR ALL KINDS OF VEHICLES. HENRY FRAPPART, Kincaid, Ill. Filed Sept. 16, 1919. Serial No. 324,090. 3 Claims. (Cl. 64—10.)



2. In a device for the purpose indicated, an axle having a reduced axle end and provided with a collar located centrally of said reduced axle end, a journal boxing in which a portion of the reduced axle end on one side of the central collar is mounted, a wheel having a hub rotatively and operatively connected with the journal boxing and mounted upon the reduced axle end on the other side of the central collar, a circular ring plate carried by the inner end of the hub and having a central opening in surrounding relation to the periphery of the central collar thereby constituting a lubricant seal.

1,348,401. UDDER ATTACHMENT FOR MILKING-MACHINES. PETER A. FRIMAND, Wilmette, Ill., assignor to The Burton Page Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 20, 1915. Serial No. 67,800. 24 Claims. (Cl. 31—102.)



1. In an udder attachment for a milking machine, the combination of a teat cup manifold comprising a flexible rubber hub having flexible rubber tubes extending therefrom adapted to support teat cups at their outer ends in substantially vertical position when said cups are partially applied to the teats of a cow, and means for supporting said attachment in operative position.

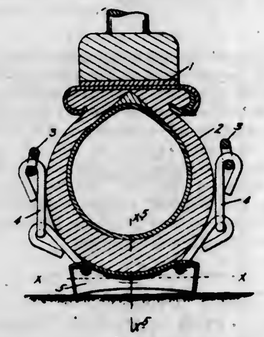
2. In an udder attachment for a milking machine, the combination of a teat cup manifold comprising a flexible rubber hub formed with integral flexible rubber tubes extending therefrom adapted to support teat cups at their outer ends in substantially vertical position when said cups are partially applied to the teats of a cow, and means for supporting said attachment in operative position.

3. In an udder attachment for a milking machine, the combination of a teat cup manifold comprising a flexible rubber hub provided with relatively short flexible rubber tubes extending therefrom in radial arrangement and adapted to support teat cups at their outer ends in substantially vertical position when said cups are partially applied to the teats of a cow, and means for supporting said attachment in operative position.

4. In an udder attachment for a milking machine, a teat cup manifold comprising a rubber hub, and rubber teat cup tubes which extend from said hub, and a core fitted in said hub provided with a suction pipe nipple and with means for supporting said manifold on a surcingle, or the like.

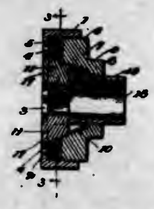
5. In an udder attachment for a milking machine, a teat cup manifold comprising a rubber hub, rubber teat cup tubes which extend from said hub, a core fitted in said hub provided with a suction pipe nipple and with a supporting device, the point of support of which is out of line with the axis of the hub.

1,348,402. NON-SKID SECTIONAL TIRE-CHAIN. FREDERICK A. GAHRING, Minneapolis, Minn., assignor of one-half to Axel Anderson, Minneapolis, Minn. Filed May 29, 1916. Serial No. 100,485. 3 Claims. (Cl. 152—14.)



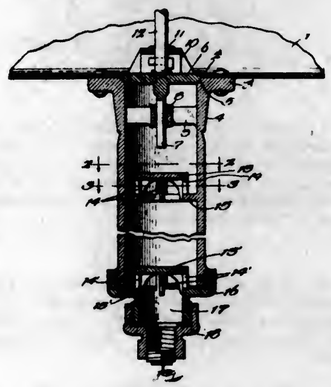
1. A non-skid device for tires including circumferentially spaced transversely extended metal tread plates that are channel-shaped in cross section and have outstanding flanges, the edges of which are concavely curved so that only the ends thereof will primarily engage the ground.

1,348,403. ADJUSTABLE DIE. ALEXANDER ALFRED GERICKE, Detroit, Mich. Filed Sept. 19, 1919. Serial No. 324,761. 5 Claims. (Cl. 10—121.)



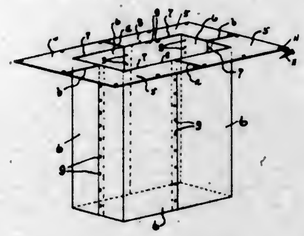
1. A die comprising a base member, a plurality of cutters fitted in the base member for movement radially thereof, an adjusting member fitted in the base member for movement longitudinally of the same and adapted to engage the dies and effect radial movement thereof, and means fitted in said adjusting member to lock the cutters in their set position.

1,348,404. TANK-CAR. GEORGE H. GIBSON, Harvey, Ill. Filed Aug. 18, 1919. Serial No. 318,284. 4 Claims. (Cl. 137—21.)



1. A tank car structure including the tank thereof having a discharge opening in its bottom portion; a nozzle depending from the tank and communicating at its upper end with said discharge opening; a valve for closing said discharge opening and provided with a rod above the same for determining its position; a guard within the bore of the nozzle below said valve, there being space between this guard and the nozzle for the downflow of car contents; a ring within and supported by the nozzle; and a leg structure carried by this ring and connected with the guard to locate and support the latter.

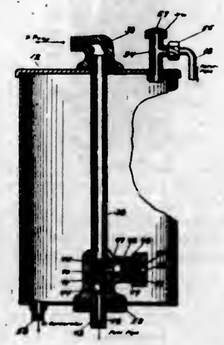
1,348,405. GRAVE-LINING DEVICE. LYLE GOODWIN, Omaha, Nebr. Filed Mar. 31, 1919. Serial No. 286,339. 1 Claim. (Cl. 27—29.)



A device of the character described including four L-shaped sections, being counterparts of each other and placed with adjacent edges in overlapping and slidable relation, whereby to form an adjustable rectangle adapted to be placed horizontally on the upper face of the earth about a grave opening, sheets depending from the inner edges of said L-shaped members and passing under, and in close proximity to the vertical walls of the grave, the adjacent edges of said sheets being arranged in overlapping and sliding relation to permit increases and decreases in the size of the box-like formation made by the combined sheets, means for securing the sheets together in spaced relation along the overlapping edges, portions of the upper edges of the sheets being secured to the inner edges of the L-shaped members and portions thereof being left free, hooks on the L-shaped members, whereby

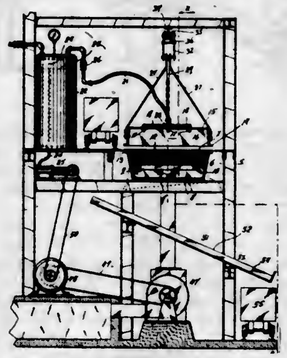
the free edges may be supported, the outer edges of the L-shaped members being perforated, strands adapted to pass through said perforations, and stakes adapted to be driven into the ground and engaging with said strands for holding the L-shaped members in place.

1,348,406. FUEL-FEEDING SYSTEM. CHARLES F. GREEN, Defiance, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Nov. 18, 1918. Serial No. 262,992. 11 Claims. (Cl. 158—36.)



1. A device of the class described, comprising the combination of an engine, a fuel supply source for the engine, a source of lubricating material for said engine, and a double piston pump adapted to elevate said materials separately from a relatively low to a relatively high level from which they are adapted to flow to said engine.

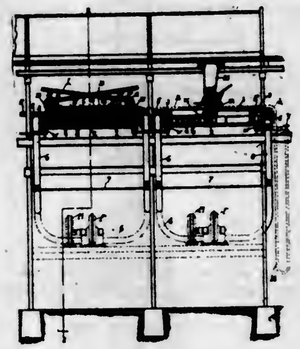
1,348,407. APPARATUS FOR ROASTING OR SINTERING ORES. JOHN E. GREENAWALT, Denver, Colo. Filed Nov. 18, 1910. Serial No. 592,997. 49 Claims. (Cl. 266—21.)



1. In combination with an open top holder for a charge of material to be treated, an igniting member movable relatively to said holder and adapted to be temporarily positioned over the holder and its charge in nonmovable relation thereto, and operating to ignite the charge at its surface while so positioned.

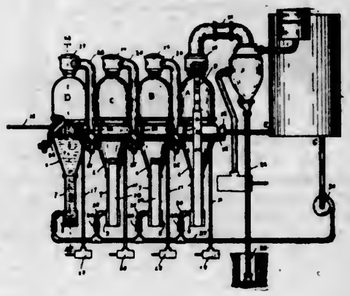
1,348,408. PROCESS OF TREATING ORES. JOHN E. GREENAWALT, Denver, Colo. Original application filed June 24, 1912, Serial No. 705,495. Divided and this application filed Nov. 25, 1912. Serial No. 733,475. 27 Claims. (Cl. 75—80.)

1. In the treatment of ore or other material, the process which consists in subjecting a charge of the material to the traverse of gases through the charge downward from a chamber superposed above the charge, projecting from fixed points above the charge ignition fuel



into said chamber, igniting said fuel, and supplying combusting-supporting gases to the fuel during the period of its projection into the chamber.

1,348,409. APPARATUS FOR THE RECOVERY OF THE CONTENTS OF LIQUIDS. CHARLES P. GRIMWOOD, Los Angeles, Calif. Filed July 15, 1916. Serial No. 109,509. 13 Claims. (Cl. 127—18.)



9. An apparatus for recovering the contents of liquids including a liquid concentrating chamber provided with a heating means, a tapered base at the bottom of the chamber, a leg extending downwardly from the tapered base and in uninterrupted communication with the chamber, a boot at the lower end of the leg, means for introducing an auxiliary supply of unconcentrated liquor at the boot so that it will rise in the leg and wash the precipitates which drop by gravity through the leg into the boot, and a conveyer for continuously removing the precipitates from the boot.

1,348,410. PENHOLDER. HENRY E. HALSETH, Virginia, Minn. Filed Jan. 3, 1920. Serial No. 349,209. 2 Claims. (Cl. 120—101.)

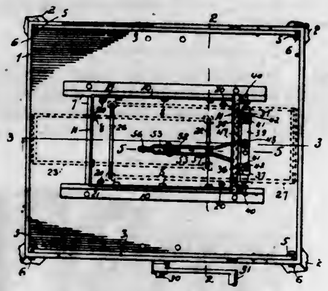
1. A clasp to be used in a manner described formed from a single strand of resilient wire and bent at its mid-point so as to form a U-shaped bearing portion, the terminals of said U-shaped bearing portion bent so as to form offset portions parallel to each other and to the plane of the U-shaped bearing portion, the ends of said

off-set extensions being bent so as to form bearing points from which points the wire is bent so as to form parallel



arms extending over and parallel to the offset extensions and provided with diverging ends which terminate in eye loops.

1,348,411. MOLDING-MACHINE. LARS HANSEN, Kansas City, Mo. Filed Apr. 21, 1919. Serial No. 291,695. 11 Claims. (Cl. 25—43.)



1. In a molding machine, a supporting frame, a stationary mold member mounted on said frame, a rock shaft oscillatable in said frame, a swinging mold member carried by the rock shaft and movable to and from an operative position projecting inwardly beyond the upper edge of the stationary mold member, means for oscillating the rock shaft, and a forming tool slidable on said frame over the die plate to and from a position against and extending below said swinging mold member when the latter is in the inwardly projecting position.

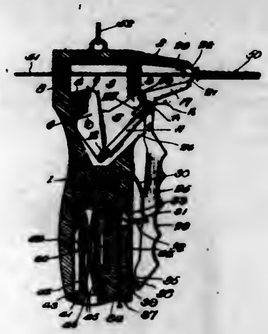
1,348,412. SYRINGE. GEORGE V. HARRIMAN, New York, N. Y. Filed Apr. 3, 1919. Serial No. 287,152. 6 Claims. (Cl. 128—234.)



2. As an article of manufacture, a vitreous nozzle tip for syringes having a glass fusing piece fused thereto.

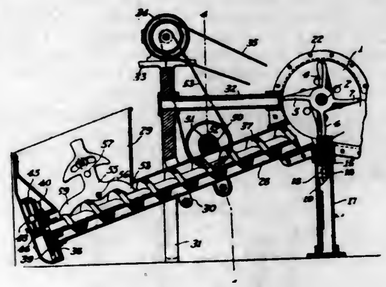
1,348,413. TOOL. FREDERICK J. HARRISON, Indianapolis, Ind. Filed Sept. 20, 1919. Serial No. 325,073. 7 Claims. (Cl. 81—9.5.)

6. In a tool for the purpose set forth, a body, a fixed blade upon the body, a movable blade mounted on the body to coact with the fixed blade, a handle mounted on the body and operatively connected with the movable blade, a variable stop mounted on the body in the path



of said handle, an adjusting rod connected to said stop and extending beyond the body, and means on the body to engage said adjusting rod and hold it in set position.

1,348,414. AUTOMATIC FUEL-FEEDING MECHANISM. JOHN HEBERLING, Rochester, N. Y. Filed Mar. 27, 1917. Serial No. 157,670. 6 Claims. (Cl. 110—115.)



1. An automatic fuel feeding device comprising a chamber having a discharge, a spreader operating in said chamber and having blades engaging the fuel to throw the latter through said discharge, and a yielding device cooperating with the ends of said blades.

1,348,415. PULLEY. ROBERT L. HERBST, Hortonville, Wis. Filed Oct. 13, 1919. Serial No. 330,169. 8 Claims. (Cl. 64—100.)



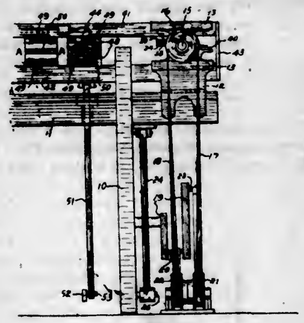
1. A pulley comprising hub and rim members, means holding the rim concentrically and movably around the hub, lugs on each member projecting toward the other, springs connecting said lugs in pairs around the wheel, and means within the rim holding the midlength of each spring diverted away from the hub.

1,348,416. JAR AND CAN LIFTER. SHADOSN A. HILLEY, Leonard, Tex. Filed Feb. 24, 1920. Serial No. 360,654. 2 Claims. (Cl. 294—33.)



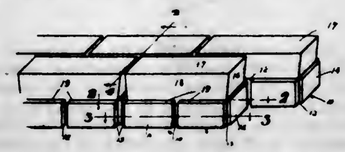
1. As a new article of manufacture, a can lifter formed from a strand of resilient wire bent intermediate its ends so as to form a plurality of loops, arms extending in parallelism from said loops, right angularly integrally extending portions provided at the terminals of said arms, said portions extending in opposite directions from each other and bent at right angles so as to form jaws, integral fingers provided upon said jaws for engaging the bottom of a can.

1,348,417. SHUTTLE-MOTION FOR TWO-BANK LOOMS. ALBERT A. HODGKINS, Bridgeport, Conn. Filed Dec. 26, 1919. Serial No. 347,281. 27 Claims. (Cl. 139—49.)



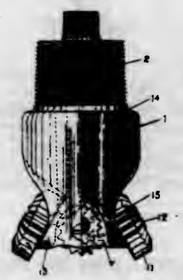
19. In a two bank narrow ware loom shuttle motion, a shuttle frame carrying shuttle actuating racks, means for reciprocating the shuttle frame, and coöperating means for actuating the shuttle racks, said last mentioned means comprising slides which are provided with rack pins and which are arranged to mesh with a reversibly turning gear wheel.

1,348,418. FLOOR AND PAVING BLOCK. WILLIAM H. HOLLENBECK, Portland, Oreg. Filed Jan. 7, 1920. Serial No. 349,957. 3 Claims. (Cl. 94—14.)



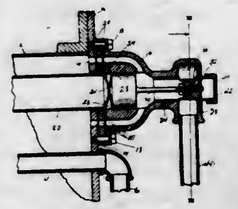
1. A floor and paving block, comprising a relatively rectangular body having the upper portion thereof dovetailed in cross-section, taken transversely, the lower portion being provided with vertical grooves at the sides and corners thereof, to provide projecting portions, said projecting portions forming upwardly facing shoulders with the top portion and the bottom edges of said projecting portions being flush with the bottom of the body.

1,348,419. CROSS-ROLLER DRILL-BIT. HOWARD R. HUGHES, Houston, Tex. Filed Dec. 27, 1919. Serial No. 347,752. 2 Claims. (Cl. 255—71.)



1. In a rotary boring drill, a head, two sets of cross roller cutters on the forward end thereof, said cutters being mounted on shafts supported on a central reinforcing web at one end and on a forwardly extending arm at the other end, said cutters being closely housed by walls extending from said web to said support and inclosing said cutters on all but the cutting side thereof, side cutters on the side faces of said walls and water channels discharging through said head onto said cross roller cutters, said walls having openings to allow passage of water laterally from said cross roller cutters onto said side cutters.

1,348,420. THERMOSTATIC CONTROL FOR COOLING MEDIUMS. FRANK A. HURLBUT, Kansas City, Mo. Filed Nov. 13, 1918. Serial No. 262,354. 3 Claims. (Cl. 236—34.)



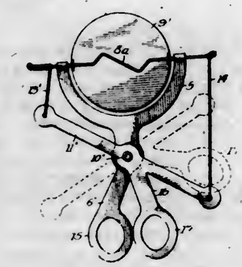
1. A cooling device for heated surfaces, comprising a casing arranged to maintain a liquid cooling medium in contact with a heated surface and under suitable pressure, said casing being provided with an outlet valve, and thermostatic means including a piston member connected with said valve and having one of its faces exposed to the liquid as it approaches said valve, and a thermostatic element projecting within said casing and mounted in engagement with the opposite face of said piston member.

1,348,421. TOY. CHARLES H. HYMAN, Chicago, Ill. Filed Mar. 15, 1919. Serial No. 282,902. 4 Claims. (Cl. 46—14.)



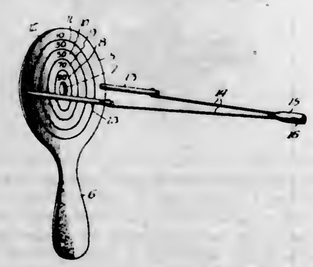
1. A whirligig toy, comprising a holder having an opening, a spindle journaled on said holder and extending diametrically across said opening, a whirling object mounted on said spindle within said opening, and manually operable means for rotating said spindle.

1,348,422. TOY. CHARLES H. HYMAN, Chicago, Ill. Filed Mar. 15, 1919. Serial No. 282,903. 5 Claims. (Cl. 46—14.)



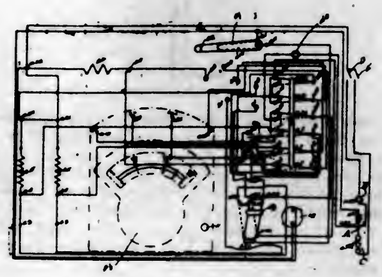
1. A whirligig toy, comprising a holder, a spindle journaled in spaced bearings on said holder, a whirling object mounted on said spindle between said bearings, a lever pivoted between its ends on said holder, and means connecting said lever with said spindle for rotating the latter in both directions from the rocking movements of said lever.

1,348,423. TOY. CHARLES H. HYMAN, Chicago, Ill. Filed Mar. 15, 1919. Serial No. 282,904. 2 Claims. (Cl. 46—60.)



2. A target toy, comprising a wooden target having a hole at its bull's-eye and a series of concentric circles bounding annular zones of different values, a handle rigid with said target, an elastic propulsion cord connected at its ends to diametrically opposite points of said target, and a missile having a sharp pointed forward end adapted to penetrate and stick in said target and a narrow slot or kerf at its rear end for engagement with said cord.

1,348,424. ELECTRICAL-TEST SET. EUGENE A. JOHNSON, Walla Walla, Wash. Filed Apr. 22, 1919. Serial No. 291,974. 6 Claims. (Cl. 175—183.)



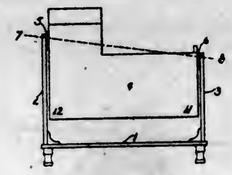
2. In an electrical test set, a current measuring instrument and its work circuit, a plurality of resistances interposed in said circuit, a switch for including any one of the restistances in the circuit and excluding the others, and a switch mechanism for connecting the selected resistance in parallel with the instrument when in one position, and in series with the instrument when in another position.

1,348,425. DIRIGIBLE HEADLIGHT FOR AUTOMOBILES. ANDREW H. KINDLE, Versailles, Mo. Filed Oct. 16, 1919. Serial No. 330,967. 5 Claims. (Cl. 240—62.)



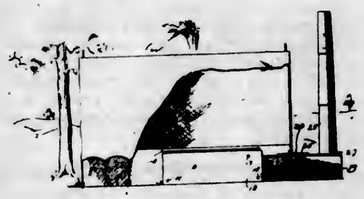
1. In a car, the combination with the steering mechanism, of a dirigible headlight, connections between the headlight and the steering mechanism, said connections embodying a member movable to an operative or an inoperative position, a lighting circuit for the headlight, and means operated upon the closing of the lighting circuit to move said member to its operative position, so that the steering mechanism and the headlight may turn in unison while the headlight is lighted.

1,348,426. CRIB. EMIL V. KLETSCHKA, Minneapolis, Minn. Filed Apr. 27, 1918. Serial No. 231,563. 4 Claims. (Cl. 5—56.)



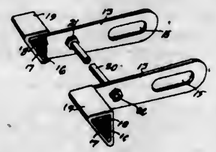
1. In a crib the combination of an oscillatable crib body, a trunnion support for said body at each end thereof, one of said trunnion supports being positioned higher than the other.

1,348,427. FOLDING CAMP-STOVE. WILLIAM M. LANDERS, Gracemont, Okla., assignor of one-third to Clark E. Bair and one-third to John W. Genung, Gracemont, Okla. Filed May 22, 1919. Serial No. 299,057. 1 Claim. (Cl. 126—9.)



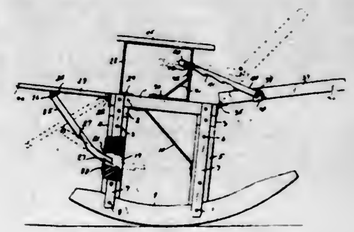
A camp stove adapted for use in a tent, comprising a folding main body arranged to be disposed on the ground within the tent, a bottomless extension foldably connected to one end of the body and arranged to protrude beneath one wall of the tent, said extension being arranged to rest on the ground outside of the tent and having hinged outer end and hinged side walls, the top wall of the extension having a stack opening remote from its foldable connection with the main body, a plate of fire-proof insulating material secured on the upper face of the top wall of the extension on which the wall of the tent is adapted to rest, and a vertical baffle wall pivotally mounted within the main body and extending transversely of the rear end thereof, said baffle wall being arranged to rest on the ground and having its upper edge terminating in spaced relation to the top wall of the main body.

1,348,428. HAND-TRUCK BRAKE. CHARLES L. LATHAM, Berkeley, and LUTHER HESTER, Vallejo, Calif. Filed Apr. 4, 1919. Serial No. 287,430. 1 Claim. (Cl. 188—23.)



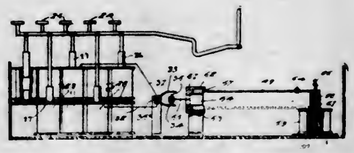
A brake to be used as described consisting of a pair of plates having wedges thereon, each plate and the wedge thereof being formed from a blank and being formed by bending one end of the plate at right angles thereto to form the top of the wedge, said plate having an extension projecting to one side thereof, the extension being bent along the edge of said plate to form the base of the wedge, said base then being bent to form a flange for engaging said top adjacent one end thereof, thus forming a triangular wedge, a sleeve of frictional material slipped on said wedge, said plate having elongated slots formed therein adjacent their opposite ends and a reinforcing rod connecting said plates together.

1,348,429. ROCKING-CHAIR. RALPH A. LEWIS, Grangeville, Idaho. Filed June 30, 1919, Serial No. 307,553. Renewed May 15, 1920. Serial No. 381,748. 3 Claims. (Cl. 155—105.)



2. In a rocking chair, the combination with a seat provided with supporting legs having rockers, of a back hingedly connected to the rear edge of the seat, arm rest supporting braces, each being constructed from a single strip of sheet metal, bent rectangular and mounted upon the seat, the rear legs of the supporting braces having elongated slots, diagonal braces for the rear legs of the supporting braces, said diagonal braces having offset extensions adjacent the slots of the rear legs of the supporting braces, and means pivotally connected to the back and passing through the slots to engage the offset extensions to hold the back in different adjusted positions.

1,348,430. TELETYPEWRITER OR PRINTING-TELEGRAPH. EINAR G. C. LOFGREN, Minneapolis, Minn. Filed Apr. 21, 1916. Serial No. 92,646. 18 Claims. (Cl. 178—33.)



18. A printing telegraph mechanism including upper and lower sets of transmitting keys, upper and lower sets of recording keys, a recording key selecting switch under the control of both sets of transmitting keys, and means under the control of one set of transmitting keys for connecting either set of recording keys to said switch.

1,348,431. MORDANT OR DYE AND PROCESS OF MAKING THE SAME. GERMAN MORALES LOPEZ and ALBERTO QUAGLIA, Buneos Aires, Argentina. Filed June 24, 1919. Serial No. 306,506. 4 Claims. (Cl. 8—13.)

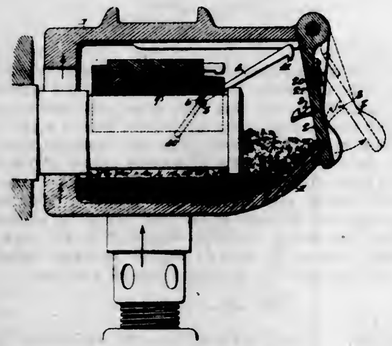
2. The herein-described process of obtaining a new industrial product, consisting in desiccating the fruit of a tree of the genus guaiacum until the volatile juices are lost, and the gummy parts have become dried, subjecting the dried gummy parts to a triturating action, and then screening and compressing the powder thus obtained.

1,348,432. REVERSING PROPELLER. ARTHUR R. LYONS, Carroll, Iowa. Filed Dec. 6, 1917. Serial No. 205,857. 1 Claim. (Cl. 170—163.)



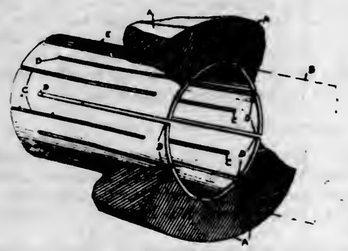
A reversible propeller comprising a hub having a pair of arms extending tangentially from the periphery of the hub and carrying rotatable blades having their longitudinal centers in the same plane as the center of the said hub and adapted to independently rotate, operating levers secured to the propeller blades at the opposite sides of said hub, and means for actuating said levers.

1,348,433. ATTACHMENT FOR OIL-BOXES. FRANK A. MACKIN, Middleport, Ohio. Filed Jan. 10, 1920. Serial No. 350,573. 3 Claims. (Cl. 64—23.)



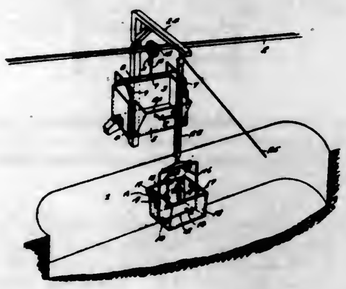
1. In a journal box of the character described, a locking means including a member mounted in the box and movable with the same, and a member on the box lid, said members having engaging portions operable by the relative movement between the box and axle as the box is jacked up for swinging said lever to release the lid.

1,348,434. ADAPTER FOR ELECTRODE-HOLDERS. OLIVER J. MARSHICK, Detroit, Mich. Filed Oct. 31, 1919. Serial No. 334,648. 4 Claims. (Cl. 204—64.)



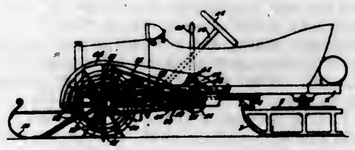
1. A metallic electrode wrapping, consisting of a tube of metal provided with a plurality of series of incomplete lengthwise kerfs arranged alternatingly in suitably spaced relation, those of one series having their open ends at one end of the tube, and those of the other series having their open ends at the other end of the tube, between the blind ends of those of the first named series on either side.

1,348,435. SILO-HOIST. OSCAR MATTHEW, Ford, Kans. Filed June 6, 1919. Serial No. 302,317. 3 Claims. (Cl. 212—97.)



1. A silo hoist comprising a suspended receptacle and a vertically movable receptacle, said suspended receptacle having a tripping bracket, the vertically movable receptacle being pivoted so as to dump, a tripping horn carried by one side of said vertically movable receptacle and so positioned as to engage the tripping bracket of the suspended receptacle when the vertically movable receptacle is moved vertically.

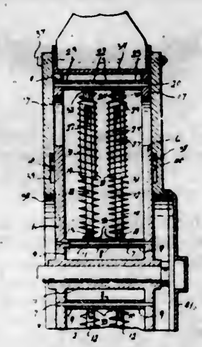
1,348,436. AUTOSLED. ROBERT C. MENZIES, Amsterdam, N. Y. Filed Nov. 8, 1919. Serial No. 336,679. 7 Claims. (Cl. 180—6.)



6. The combination with a vehicle structure including rear steering runners and front runners, of a transverse shaft journaled between the front and rear runners and including a differential, a motor for actuating said shaft, draw frames mounted to swing upon the end portions of the shaft and extending forwardly and lapping the outer sides of the front runners, a propelling wheel journaled within each of the draw frames and supported at the side of a front runner, means for transmitting motion to the propelling wheels from the shaft, a spring mounted for rotation on each end portion of the shaft, arms extending from the spring, one of said arms bearing downwardly on the draw frames, and means under the control of the operator for shifting the other arm of the spring to vary the pressure of the spring upon the draw frames and of the propelling wheels upon the supporting surface.

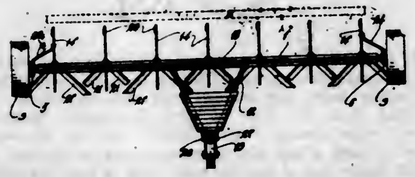
1,348,437. SPRING-HUB. ALFRED S. MIDDLETON, Des Moines, Iowa, assignor of one-half to Walter M. Toole, Des Moines, Iowa. Filed Nov. 19, 1919. Serial No. 339,140. 2 Claims. (Cl. 152—45.)

2. A device of the character described comprising a hub, a wheel having an annular member disposed in annular spaced relation to the hub, a plurality of opposed pinties extending laterally of the annular member and the hub, a plurality of sleeves freely mounted on said pinties for oscillating movement, collars on the end portions of said pinties to prevent sliding movement of the sleeves, lugs projecting from said sleeves, pins pivoted at one of their



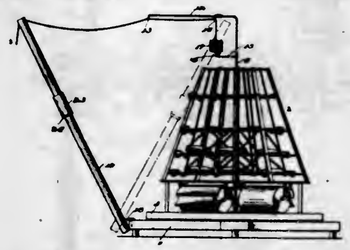
ends to the lugs, the pins of the annular member and hub intersecting each other, and spring means surrounding said intersecting pins.

1,348,438. WEEDING IMPLEMENT. THOMAS S. MOFFETT, Walla Walla, Wash., assignor of one-half to Archie O. Johnson, Walla Walla, Wash. Filed Mar. 20, 1920. Serial No. 367,539. 4 Claims. (Cl. 97—34.)



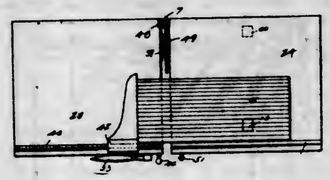
1. The combination with a bolster having pivoted stub axles and end supporting wheels, of a series of draft beams swiveled on the bolster and carrying cutter blades, and braces having fixed relation to the stub axles and slidable connections with the respective end beams, whereby the wheels and beams are turned synchronously.

1,348,439. TWINE-HOLDER. JOHN H. NICKS, San Saba, Tex. Filed July 10, 1919. Serial No. 309,922. 2 Claims. (Cl. 242—143.)



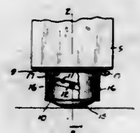
1. In an apparatus for the purpose set forth, the combination of a support, a lateral guide arm at the upper end of the same, a supporting arm below the guide arm, said supporting arm being adapted to carry a ball of cord and the guide arm to sustain the free portion of the cord, a tension bar hinged at its lower end to the support to swing to and from the same, guides for the cord at the upper end of the tension bar, and a tension device carried by said bar and engaging the cord between the guides at the upper end of the bar.

1,348,440. BENCH-SAW. CHARLES L. PARTRIDGE, Omaha, Nebr. Filed May 8, 1917. Serial No. 167,286. 7 Claims. (Cl. 29—69.)



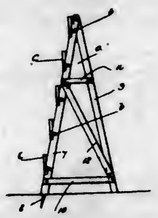
1. In a sewing machine, a base plate, a rotary saw supported upon the base plate, a rotary cutter associated with the saw, a vertically adjustable table arranged laterally of the saw, and means for supporting the table in various positions to support work in position to be operated upon by either the saw or rotary cutter.

1,348,441. FURNITURE-LEVELER. GEORGE R. PERRY, New York, N. Y. Filed June 26, 1919. Serial No. 306,823. 5 Claims. (Cl. 46—13.)



1. An apparatus as characterized comprising, a rotatable foot member; a housing for said member having inclined bearing surfaces; and a shaft extended through said foot member beyond the sides of said housing to provide means for rotating said foot member, said shaft engaging said inclined surfaces to form supports for said housing.

1,348,442. GAME APPARATUS. ANDREW PREBBLE, Altoona, Kans. Filed Feb. 3, 1920. Serial No. 355,970. 1 Claim. (Cl. 124—15.)

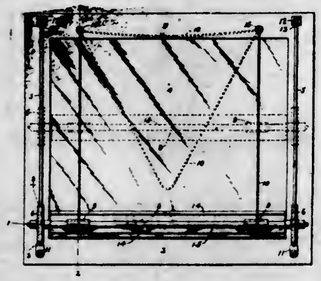


A game apparatus, comprising a frame provided with horizontal bars, numbered targets arranged in rows, hook-shaped hinges secured in pairs to the backs of the said targets and pivoting them to the said bars at points below the centers of gravity of the targets, and stops secured to the bars between the pairs of hinges, each stop being provided with a downwardly projecting arm and a rearwardly projecting arm for limiting the pivotal movements of the target.

1,348,443. WINDOW-CLEANER. JAMES T. PIGGOTT, Parkersburg, W. Va. Filed June 9, 1919. Serial No. 302,762. 4 Claims. (Cl. 15—59.)

1. In a window cleaner, a member comprising a V-bar formed of a single strip of sheet metal and including a

tubular pivot-bearing extending along the apex of its meeting sides, wiping elements at the free edges of said member, a counterweight secured to and extending radially



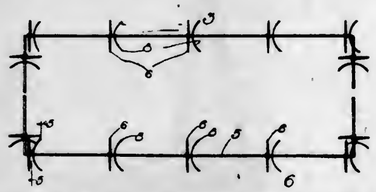
from the said tubular bearing, means to slidably mount the member in operative relation to a window, and means for imparting movement to the member.

1,348,444. STOCKING-SUSPENDER. PAUL PUGNIET, Paris, France. Filed July 24, 1919. Serial No. 313,125. 2 Claims. (Cl. 24—245.)



1. In a suspender, a sheet metal body having an attaching loop at one end and a bendable portion at the opposite end, and further provided, near the center, with upstruck tongues; a flexible loop having its ends attached to said tongues and secured near its ends in tubular members formed in the bendable portion of the body.

1,348,445. REINFORCED CONCRETE CONSTRUCTION. EARLE P. PRESS, Lake Bluff, Ill. Filed June 2, 1917. Serial No. 172,367. 1 Claim. (Cl. 72—15.)



The combination with the reinforcement rods of a concrete structure, of a head support comprising an apertured frame, a plurality of wires bent to form triangular legs, the ends of which are hooked in the apertures of the frame, to support the frame with the reinforcement rods resting thereon, and wires engaged through other of said frame apertures adapted to be passed around said reinforcement rods to hold the same secured to said frame and properly spaced.

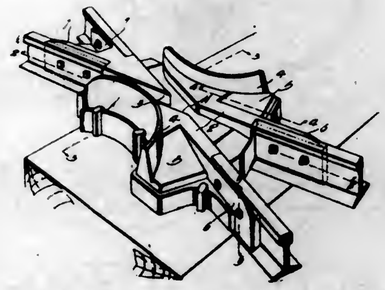
1,348,446. LEAF-SPRING. CLAUDE J. QUICK, Pulaski, N. Y. Filed Aug. 4, 1919. Serial No. 315,070. 2 Claims. (Cl. 267—49.)

1. A spring comprising a series of leaves arranged one above the other in concentric arcs of a circle and in spaced relation vertically, each leaf above the lowermost leaf having a plurality of lugs overlapping upon the op-



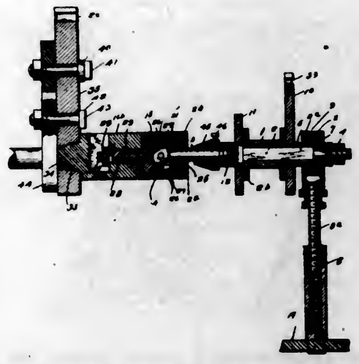
posite longitudinal edges of the next underlying leaf and rollers in the spaces between the leaves and journaled in said lugs.

1,348,447. RAILWAY-FROG. JAMES S. REID, Harrisburg, Ill. Filed Mar. 16, 1920. Serial No. 366,200. 2 Claims. (Cl. 246—456.)



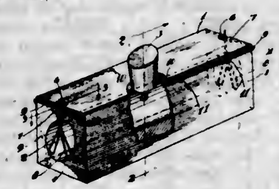
1. In a railway frog, a one-piece frog-body including the usual track-point, the usual wings, track-rail connections extending from said wings, track rail-connections extending from the heel of said track-point, inwardly bowed wheel-guiding walls extending up from the outer sides of said wings, and re-railing surfaces inclined toward the toe end of the frog-body, each of these re-railing surfaces being disposed between one of said wings and one of said guiding walls.

1,348,448. WIRE-LINE SPOOLER. ROBERT B. ROBISON, Caddo, Tex. Filed Mar. 28, 1919. Serial No. 285,800. 4 Claims. (Cl. 242—117.)



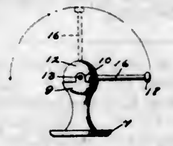
1. In spooling means, a rotatable shaft, a spool carried thereby, a connecting block comprising an inner member and an outer member, universal connections between said inner member and said shaft, means for securing said block members together adapted to permit independent rotation of the inner member, means for normally locking said inner member to the outer block member, and means carried by the outer block member for securing the same to the drive shaft of a well rig for rotation therewith.

1,348,449. ANIMAL-TRAP. ELMER E. RODGERS, ARTHUR W. WENGER, and CLAUDE M. RODGERS, Warsaw, Ind. Filed Sept. 22, 1919. Serial No. 325,360. 2 Claims. (Cl. 43—81.)



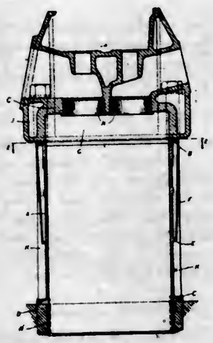
1. An animal trap comprising a body portion having a central bore and an opening communicating with said central bore between the ends of the latter, a spring arm secured to the side of the block at each end, said arm being bent around the end of the block and the end of the arm projecting normally in a downward direction but adapted to be forced against torsion to a horizontal position and a trigger suspended at each end of said central bore and adapted to be engaged by said spring arm to hold the latter in said position and to release the spring arm when moved.

1,348,450. COLLAR-BUTTON. PIERRE A. RONTEY, Coscob, Conn. Filed Apr. 11, 1919. Serial No. 289,233. 4 Claims. (Cl. 24—100.)



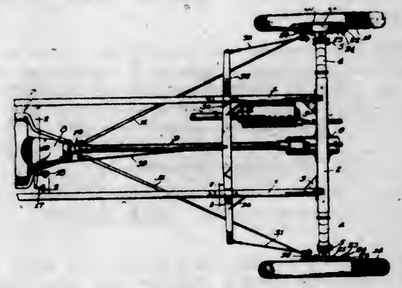
1. A collar button comprising a shank, a member pivotally mounted in the shank of said collar button and provided with a bore therethrough having a restricted portion, a rod slidably mounted in said bore, and means on each end of said rod for engagement with said restricted portion to prevent disengagement of the rod with said pivoted member.

1,348,451. CYLINDER FOR INTERNAL-COMBUSTION ENGINES. ARTHUR JOHN ROWLEDGE, London, England, assignor to D. Napier & Son Limited, London, England. Filed Aug. 11, 1919. Serial No. 316,624. 2 Claims. (Cl. 123—173.)



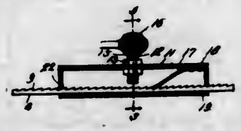
1. In a multicylinder internal combustion engine the combination of a plurality of separate cylinders each of which is open at both ends, an external flange formed at one end of each cylinder and adapted to butt up against and make a gas tight joint with a head casting, an external flange formed toward the opposite end of each cylinder, a water jacketed integral casting constituting detachable heads for all the cylinders in the set, valve seats and inlet and exhaust passages for the several cylinders in this head casting the under side of which is formed so as to make a separable gas tight point with the flanged ends of the several cylinders, a crank case with separate openings into each of which one end of a cylinder is inserted with the flange adjacent to that end of the cylinder butting up against the crank case, and a plurality of bolts extending from the crank case to the detachable head casting and serving to secure this casting on the cylinders and also to keep the cylinders in place as set forth.

1,348,452. MOTOR-CAR REAR-WHEEL-BRAKE MECHANISM. ALPHONSE A. SEBASTIAN and DELBERT R. CAPES, Chicago, Ill., assignors by direct and mesne assignments, to A.-C. Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1916. Serial No. 82,265. 1 Claim. (Cl. 188—18.)



A motor car brake mechanism, comprising brake bands disposed around the wheel drums of the car, an equalizing bar slidably mounted on the chassis sills, means connecting said bar with said brake bands, a rod pivoted centrally to said bar and adapted to actuate the same to apply said brake bands, a pedal to which the other end of said bar is connected and disposed at an angle to the point of connection of said rod with said bar, and springs connected at an angle between said bar on each side of its point of connection with said rod and to the chassis of the motor car and adapted automatically to return said bar to normal position and thereby release said brake bands.

1,348,453. AUTOMOBILE-LOCK. THOMAS H. SIMPSON, Centerville, Iowa. Filed Apr. 23, 1919. Serial No. 292,120. 4 Claims. (Cl. 70—128.)

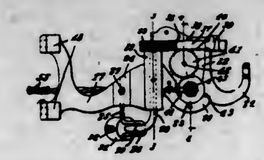


1. In a device of the class described, the combination with a support including an operating lever, of a bar carried by said support, a casing secured to said lever, lock means in the casing for engagement with said bar, a movable plate carried by the casing for releasably holding said bar in engagement with said lock means, and means for releasably locking said plate in a closed position.

1,348,454. CIRCUIT-CLOSER FOR AUTOMOBILE SIGNAL DEVICES. CLARENCE SOLIE, Stanley, Wis. Filed Dec. 19, 1918. Serial No. 267,515. 3 Claims. (Cl. 200—59.)

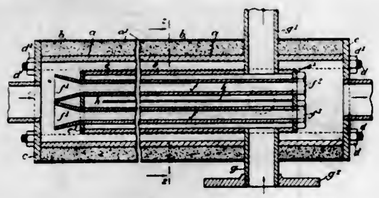
3. In a circuit closer, a bracket; a shaft journaled in the bracket; a pinion on the shaft; an oscillating switch

journaled on the bracket and including a pinion; a rack bar slidable on the bracket and coöperating with both pinions; an eccentric weight on the shaft and constituting means for rotating the shaft to dispose the switch in open



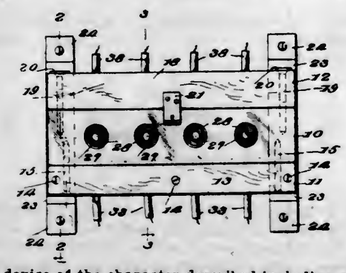
circuit position; and means under the control of an operator coacting with the rack bar and acting in opposition to the weight to dispose the switch in closed circuit position.

1,348,455. VAPORIZER FOR INTERNAL-COMBUSTION ENGINES. GEORGE SPICER, London, and EDWARD CHARLES SYDNEY CROXSON, Southend-on-Sea, England. Filed May 21, 1918. Serial No. 235,868. 2 Claims. (Cl. 257—241.)



1. A vaporizer comprising a tubular outer casing having closed ends provided with inlet and outlet tubes, a tubular inner casing of less diameter than and arranged in the outer casing, said tubular inner casing having closed ends, pipes extending longitudinally through said inner casing and open at the ends, fuel inlet and outlet pipes extending transversely through the outer casing and connected to the inner casing at a point near one end thereof, and a baffle in said inner casing and extending from said end thereof to a point near the opposite end thereof.

1,348,456. SPARK-INDICATOR AND PLUG-TESTER. JOHN S. STEVENSON, Baltimore, Md. Filed Apr. 29, 1918. Serial No. 231,506. 4 Claims. (Cl. 175—183.)



1. A device of the character described including a casing provided with a sparking chamber, a sleeve opening into the chamber, coacting terminals projecting into the chamber and forming a spark gap therein, one of said terminals being fitted through the sleeve and rotatably adjustable thereon with respect to the other of the terminals, means adjustable upon the sleeve for clamping a circuit wire in engagement therewith, and yieldable means bearing between said first mentioned means and the adjustable terminal for holding such terminal at adjustment and also holding said first mentioned means at adjustment.

1,348,457. PROCESS FOR DEOXIDIZING COPPER AND ITS ALLOYS. ALBERT STRASSER, Rorschach, Switzerland. Filed Feb. 5, 1920. Serial No. 356,546. 4 Claims. (Cl. 75—62.)

1. A process for deoxidising copper and its alloys, which consists in first adding a copper cartridge containing a phosphorus compound to the copper heated above its melting point, for the purpose of converting the impurities into phosphorus compounds, and then, when the copper has reached a higher temperature, adding a second copper cartridge filled with one of the metals of the alkaline earths, for the purpose of oxidising the phosphorus compounds, the reaction being such that the phosphorus compounds burn at the expense of the alkaline earth metal, and the oxids being insoluble in copper, float on the top of the latter.

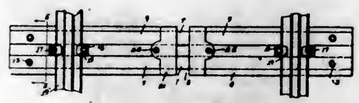
1,348,458. PROCESS FOR DEOXIDIZING ALUMINUM AND ITS ALLOYS. ALBERT STRASSER, Rorschach, Switzerland. Filed Feb. 5, 1920. Serial No. 356,547. 4 Claims. (Cl. 75—58.)

1. A process for dexodizing aluminium and its alloys, which consists in first adding an aluminium cartridge containing a phosphorus compound to the aluminium heated above its melting point, for the purpose of converting the impurities into phosphorus compounds, and then when the aluminium has reached a higher temperature, adding a second aluminium cartridge filled with one of the metals of the alkaline earths, for the purpose of oxidising the phosphorus compounds, the reaction being such that the phosphorus compounds burn at the expense of the alkaline earth metal, and the oxids being insoluble in aluminium, float on the top of the latter.

1,348,459. METHOD OF FORMING SHAPED ARTICLES FROM PRECIPITATED SKIN-LIKE COMPOUNDS. CHARLES E. SWETT, Brookline, Mass., assignor to Arthur D. Little, Incorporated, Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 27, 1919. Serial No. 285,621. 5 Claims. (Cl. 18—57.)

4. The method of making predetermined shapes of insoluble algin compounds which consists in first wetting a porous form with an aqueous solution adapted to precipitate the algin compound from an alkaline solution of the alginate, then applying to the wetted form a solution of the alkaline alginate and finally removing from the form the algin compound formed.

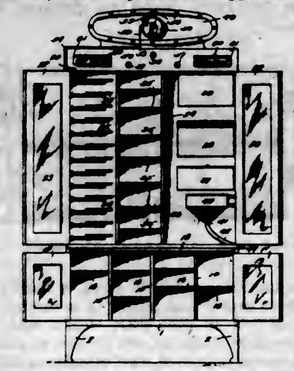
1,348,460. RAIL TIE AND FASTENER. EDWIN T. WADE, Jackson, Miss., assignor of one-third to Albert C. JONES, Jackson, Miss. Filed Dec. 30, 1919. Serial No. 348,260. 2 Claims. (Cl. 238—116.)



1. In a railway tie construction, opposed sections of plastic material, reinforcing elements disposed in the upper surface of both of the sections, and providing means to connect the sections, end plates including parallel members contacting with the upper and lower surfaces of the respective sections, said end plates having openings to accommodate the reinforcing elements, and rail securing means extending through each of the opposed sections.

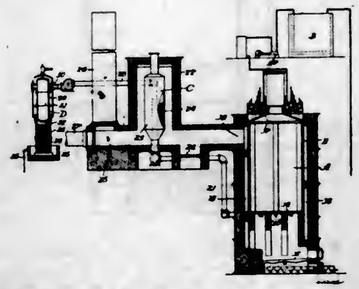
1,348,461. HOTEL OR RESTAURANT CABINET. EARNEST WASHINGTON, Faribault, Minn. Filed Mar. 5, 1920. Serial No. 363,420. 1 Claim. (Cl. 45—16.)

A combined hotel cabinet comprising a lower portion embodying a refrigerator upon one side and compartments upon the other side, a bread-board slidably supported above the same, and a top member supported on the bot-



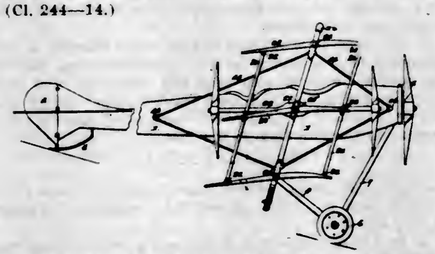
tom portion and over said board and having a central tier of shelving, and compartments on each side thereof, and separate doors for the upper and lower compartments.

1,348,462. METHOD OF AND APPARATUS FOR TREATING WASTE PICKLE LIQUOR. ALBERT T. WEAVER, Joliet, ERNEST W. D. LAUFER, Arlington Heights, and EBERHARD VON WINTZINGERODE, Chicago, Ill., assignors to The American Steel & Wire Company of New Jersey, Hoboken, N. J., a Corporation of New Jersey. Filed Aug. 3, 1916. Serial No. 112,898. 6 Claims. (Cl. 23—13.)



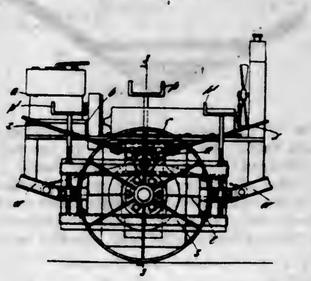
1. In a method of treating a pickle liquor solution including certain sulfates in water and recovering sulfurous and sulfuric acid gases and oxids, the steps of spraying the solution in a finely divided condition into a furnace, conducting the evolved water and sulfurous and sulfuric acid gases from the furnace, condensing the vapors in the presence of steam and depositing the oxid on the floor of the furnace, substantially as described.

1,348,463. AEROPLANE. JEAN F. WEBB, Sr., New York, N. Y. Filed June 8, 1918, Serial No. 238,841. Renewed Feb. 17, 1920. Serial No. 359,314. 9 Claims. (Cl. 244—14.)



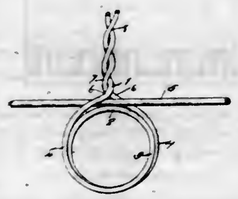
8. The combination in an aeroplane structure, of rigid diamond-shaped trusses and rigid transverse trusses crossing each other at right angles and interlocked together and with the fuselage framework to form a support, longitudinally and transversely, for the planes.

1,348,464. BALANCE-PLOW. DANIEL YELD WHEATLEY, Hythe, England. Filed Sept. 29, 1917. Serial No. 193,949. 2 Claims. (Cl. 180—29.)



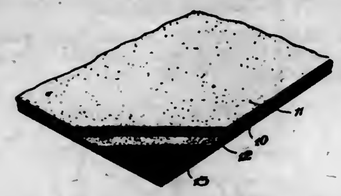
1. In a self-propelled plow the combination of a frame, an engine, two wheels mounted on spindles, driving gear between the engine and the wheels, a sleeve on one of said spindles, a drum, chains connecting said sleeve and said drum, worm gearing for rotating said drum, and steering bars for actuating said drum.

1,348,465. CLOTHESPIN. ALLEN WHITLOCK, Pueblo, Colo. Filed Mar. 1, 1920. Serial No. 362,618. 1 Claim. (Cl. 24—139.)



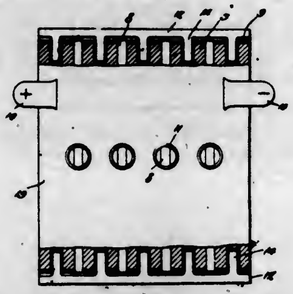
A clothes pin constructed from a single length of spring wire being bent or curved upon itself at a point substantially at its medial portion, thereby forming a medial loop of circular form, portions of the wire beyond the loop being returned in curve formation toward a portion of the loop adjacent where the wire is first bent upon itself, thereby forming a plurality of clothes line engaging coils, the wire material beyond the returned portions of curved formation being permanently twisted and interlocked with each other in close position, thereby forming a handle, said twisted end portions having their free end terminals terminating in close position to each other, said clothes pin adjacent where the end portions are first twisted together at a point where the wire material is first bent or curved upon itself having an opening of substantial size to permit of the reception of the clothes line which engages where the wire material is first bent or curved upon itself and the portions where the handle is first twisted together thereby permitting the clothes pin to slide upon the line as well as swivel on the line and whereby the pin may be disposed at right angles to the line with the loop extending upwardly or downwardly, said twisted portions of the handle being twisted and connected together subsequently to attaching the clothes line to its supporting means, said plurality of coils being yieldable and of substantial diameters thereby constituting clothes clamping jaws capable of disposition substantially parallel with the clothes line whereby articles may be suspended substantially in alinement with the clothes line.

1,348,466. TIRE-PATCH. WINFIELD C. WOOD, Minneapolis, Minn. Filed Feb. 6, 1919. Serial No. 275,364. 1 Claim. (Cl. 152—26.)



A sheet of tire patch material comprising a layer of vulcanized rubber having a layer of one-way-extensible fabric embedded therein, said fabric being co-extensive with the layer of rubber, a thin layer of adhesive rubber secured to the vulcanized layer throughout the area of one of its faces, and a detachable sheet of protective material covering the exposed face of said adhesive layer.

1,348,467. BATTERY-PLATE. ARTHUR J. ADAMS, Milwaukee, Wis. Filed Oct. 15, 1919. Serial No. 330,716. 2 Claims. (Cl. 204—29.)



1. A storage battery comprising frames carrying active material and provided with peripheral grooves; and a bonding member having flanges entering the grooves.

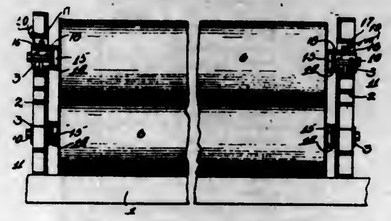
1,348,468. COMBINATION-SHAKER. SAMUEL L. ADELSON, Chicago, Ill. Filed Aug. 11, 1919. Serial No. 316,527. 1 Claim. (Cl. 65—45.)





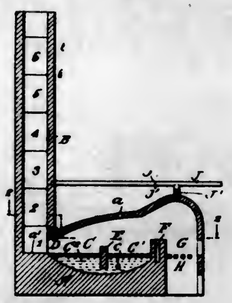
A combination shaker of the class described comprising a container, a central partition dividing the container into separate compartments, an apertured stationary cover removably secured on the container, an apertured cover slidable on the stationary cover with the apertures therein adapted to register with the apertures in the stationary cover, downward projections on the slidable cover projecting through slots in the stationary cover for securing the slidable cover to the stationary cover, and a spring between the slidable cover and the stationary cover acting normally to hold the apertures over one compartment in register and the apertures over the other compartment out of register.

1,348,469. CYLINDER FOR PAPER-DRYING MACHINES. JOHN E. ALEXANDER, Port Edwards, Wis. Filed Nov. 26, 1917. Serial No. 204,088. 4 Claims. (Cl. 219—37.)



1. A drier unit comprising a casing, a shaft projecting therethrough to permit said casing to be rotatably mounted, spiders secured on said shaft within said casing, a plurality of connected flat spirals of wire secured on said spiders, and means connected with said flat spirals of wire to permit an electric current to be passed therethrough to heat the same and said casing.

1,348,470. PROCESS OF AND FURNACE FOR REFINING COPPER. FRANK L. ANTISELL, Perth Amboy, N. J. Filed June 6, 1913. Serial No. 772,033. 25 Claims. (Cl. 75—62.)



1. The process of refining copper which consists in continuously, progressively and serially pre-heating, roasting and melting copper forms separately and individually.

2. The process of refining copper which consists in continuously, progressively and serially roasting copper forms and then subjecting the said copper forms separately and individually to a melting temperature.

3. The process of refining copper which consists in gradually feeding copper forms to the melting zone where they are melted separately and individually and progressively and serially pre-heating and roasting said copper while being so fed.

4. The process of refining copper which consists in continuously, progressively and serially pre-heating and roasting copper forms and then subjecting the copper forms to a melting temperature so that they are melted separately and individually.

5. The process of refining copper which consists in continuously feeding copper forms to a melting zone, melting the copper forms in said zone and separately and individually, preheating and roasting the copper forms serially by a current of products of combustion passing counterwise to the direction of the feed.

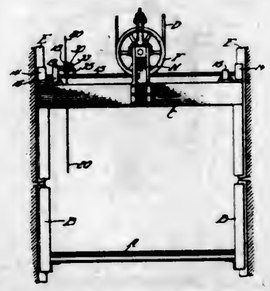
1,348,471. MOWER. JOHN ASPINWALL, Newburgh, N. Y. Filed Dec. 20, 1919. Serial No. 346,268. 8 Claims. (Cl. 56—294.)

1. In a mower, a rotary cutter and a relatively stationary knife bar comprising a relatively tough member and a thin steel knife secured thereto, the steel knife being substantially rectangular in cross section and arranged in upright position on said tough member with the tough



member substantially covering the back flat face of the knife to decrease the tendency of the cutting edge of the knife to become bent or broken.

1,348,472. SAFETY DEVICE FOR ELEVATORS. HENRY BLEYMEHL, Chicago, Ill. Filed Nov. 8, 1919. Serial No. 336,566. 8 Claims. (Cl. 187—90.)



5. The combination with an elevator, vertical guide-tracks therefor, shoes carried by said elevator that travel on said tracks, and movable means housed within said shoes that engage said track, of a stationary vertical rope, a pulley engaging said rope whose bearings are supported by said elevator, a wheel the center of which alines with the axis of said pulley and which is actuated by the same when the elevator descends too rapidly, a centrifugally actuated arm, a link pivoted to said wheel, a transverse rock-shaft, an arm projecting from the shaft, to the outer end of which said link is connected, and devices adapted to impart motion from the shaft to said means.

1,348,473. FASTENER. WINFRED M. BROOKS, West Orange, N. J. Filed Dec. 10, 1918. Serial No. 266,030. 1 Claim. (Cl. 292—316.)



An improved fastener comprising: a straight head-portion weakened at a plurality of points transversely and over a considerable extent of its surface, two prongs connected by said head-portion, one, a main prong bent downwardly substantially at right-angles to the head-portion, and another, an auxiliary prong bent downwardly at an angle greater than a right angle and inclined toward the main prong, the main prong being of greater length than the auxiliary prong.

1,348,474. COMBINED CHAIR AND LADDER. ELENA BUDNYK, Vegreville, Alberta, Canada. Filed Jan. 4, 1918, Serial No. 210,279. Renewed Feb. 7, 1920. Serial No. 357,016. 3 Claims. (Cl. 155—42.)



1. The combination with a chair having a back; of ears projecting from the back on opposite sides thereof, spring-pressed plungers extending through the ears and constantly urged in opposite directions, and ladder side engaging elements carried by the outer ends of said plungers.

3. The combination with a chair having a back; of ears projecting from said back rearwardly, plungers passing through said ears and having their inner portions overlapping an eye on the inner end of each plunger, a compression spring surrounding said plungers between said eyes and having its ends engaging the confronting faces of the eyes and inwardly directed forks carried by the outer ends of the plungers and adapted to enter openings in the sides of a ladder.

1,348,475. SHOESTRING-FASTENING DEVICE. LEWIS CALVIN BULLOCK, Jr., State College, Pa. Filed Mar. 11, 1920. Serial No. 364,878. 4 Claims. (Cl. 24—117.)



1. A device of the character described including a plate adapted to be secured to the tongue of a shoe and having a rib forwardly projecting therefrom whereby the rib can pass outwardly through the parting between the front edges of the shoe upper, said rib having a hole through which the end portions of the shoe lace can be projected and a notch adjacent said hole whereby a portion of the lace, wrapped to form a loop, can be pulled when the loop is shortened; substantially as described.

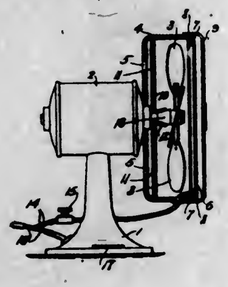
1,348,476. WINDING-HANDLE FOR PHONOGRAPHS. HENRY S. CAHN and HARRY SISKIN, Los Angeles, Calif.; said Cahn assignor to said Siskin. Filed Apr. 30, 1919. Serial No. 293,999. 2 Claims. (Cl. 74—33.)



1. In combination a supporting structure; a drawer sliding in said structure; a phonograph mechanism car-

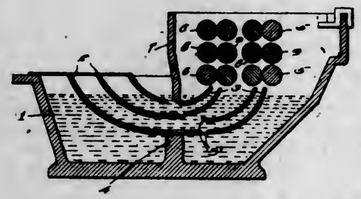
ried in said drawer; and a handle for winding said phonograph mechanism, said handle projecting from the side of the drawer when the drawer is open and having a hinged joint by which it may be folded out of the way when the drawer is closed.

1,348,477. FAN. ALLEN A. CANTON, New York, N. Y., assignor to Canton Fan Heater Co., a Corporation of Delaware. Filed Aug. 20, 1919. Serial No. 318,784. 10 Claims. (Cl. 219—42.)



5. In combination with a fan, a heating element disposed in the path of movement of a current of air from the fan, a source of electrical current for operating the fan and the heating element, independently operable means for controlling the flow of electric current to the fan and heating element, and means for interrupting the current of air from the fan.

1,348,478. ATTACHMENT FOR METAL-COATING MACHINES. JOHN A. CARRIGAN, New Castle, Pa. Filed Aug. 3, 1917, Serial No. 184,348. Renewed Apr. 21, 1920. Serial No. 375,653. 2 Claims. (Cl. 91—59.4.)



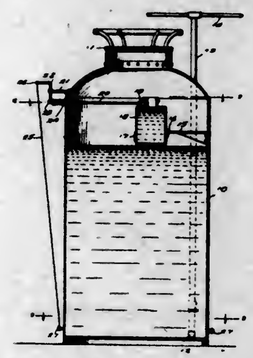
1. In a device of the class described, the combination of a supporting means, pairs of feed-out rollers rotatably supported upon said supporting means, the rollers of each pair being contiguous to each other, while said pairs are spaced from each other, wiping rollers rotatably mounted upon said supporting means, said wiping rollers being interposed between pairs of the feed-out rollers, means for rotating the feed-out rollers at a uniform speed, and means for rotating the wiping rollers in the same direction as that of the feed out rollers and slower than the feed-out rollers, thus causing a sheet of metal to positively pass out between the feed out rollers and the wiping rollers.

2. In a device of the class described, the combination of a supporting means, pairs of feed-out rollers rotatably supported upon said supporting means, the rollers of each pair engaging each other under normal conditions, said pairs being spaced apart, wiping rollers rotatably supported upon said means and interposed between said feed-out rollers, meshing gears of uniform sizes connected to said feed-out rollers, enlarged gears connected to said wiping rollers, and gears so meshing with the gears of the feed-out rollers and wiping rollers, as to cause the wiping rollers to rotate in the same direction as the feed-out rollers, but at a reduced speed, thus causing the wiping rollers to have a slight dragging action upon a sheet of material moved outwardly between the feed-out rollers to evenly coat such material.

1,348,479. COMPOSITION OF MATTER. MAURICE A. CARTER, Gilby, N. D. Filed Aug. 30, 1918. Serial No. 252,111. 1 Claim. (Cl. 148—30.)

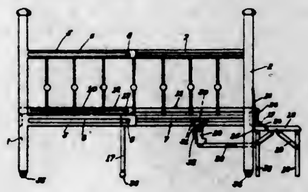
A composition of matter for use in hardening metal, including sweet milk, flaxseed oil, lampblack, rosin, cyanid of potassium, yellow prussiate of potash, ammonia water, salt and water.

1,348,480. AUTOMATICALLY-OPERATED FIRE-EXTINGUISHER. ARLINGTON CHARTER, Covington, Tenn. Filed Feb. 16, 1920. Serial No. 358,943. 2 Claims. (Cl. 169—27.)



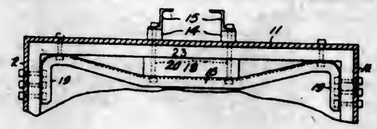
1. In a device of the type described a casing, a tilting receptacle within said casing, a detent holding said receptacle in vertical position, a fusible link holding said detent in engagement with said receptacle and an annular row of spaced guide members arranged about and secured to said casing, said fusible link passing through each of said guide members.

1,348,481. TELESCOPICAL BED AND COLLAPSIBLE-CHAIR COMBINATION. JOHN CHOMOS, Toledo, Ohio. Filed Nov. 28, 1919. Serial No. 341,091. 2 Claims. (Cl. 5—41.)



1. The combination of means for holding a folded chair in place under a bed, comprising rods attached to the bed ends and arranged lengthwise of said bed, a bracket mounted on said rods, an arm pivoted about one end of said bracket and a spring attached at one end to said bracket and arranged to put pressure on said arm for causing said arm to support said folded chair, and a lever for releasing said chair holding means for allowing said chair to be unfolded for use.

1,348,482. CAR-END REINFORCEMENT. JAMES M. COLEMAN, Montreal, Quebec, Canada, assignor of one-fourth to James W. Coleman, Montreal, Canada. Filed Aug. 26, 1918. Serial No. 251,465. 9 Claims. (Cl. 105—411.)



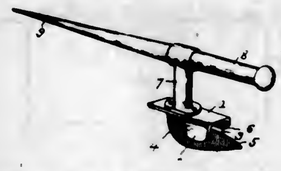
1. An inside end stiffener for box cars located above and separate from the under frame comprising a one piece compression member arched away from the car end in its central portion and connected to the car end toward its extremities.

1,348,483. REINFORCED CONCRETE CONSTRUCTION. WILLIAM CHARLES DAVIS, Melbourne, Victoria, Australia. Filed Sept. 27, 1917. Serial No. 193,493. 1 Claim. (Cl. 72—85.)



A structure of the class described comprising a framework of longitudinal rods or the like and stay rods therefor, said framework being made in sections, posts inserted between adjacent sections said posts comprising a central rod and a cylindrical wire netting inclosure therefor, said netting being provided with slits for receiving the ends of said longitudinal rods and all of said parts being incased in cement.

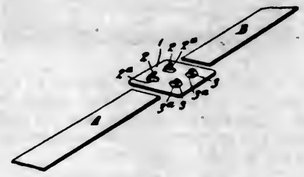
1,348,484. CAN-OPENER. MAE S. DICKSON, Hubbard Woods, Ill. Filed Jan. 26, 1920. Serial No. 353,918. 1 Claim. (Cl. 30—3.)



A can opener of the type described, the combination of a bearing plate carrying guiding and opening means, a stem connected centrally at the mid-length of said plate, and a longitudinally extending hand grip connected at its mid-length to said stem to afford finger grips at each side of the stem, the forward end of the hand grip having a pointed formation.

1,348,485. KEY-LOCK BOX-STRAP FASTENER. EMIL DIETZE, Brooklyn, N. Y., assignor to American Casting and Manufacturing Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 7, 1918. Serial No. 248,796. 1 Claim. (Cl. 24—23.)

A box strap arrangement, comprising a metal strap with overlapping ends and a seal plate by which the strap ends are secured together, having a substantially flat portion unobstructed by projections on its longitudinal central line, on which portion the strap ends rest, said portion having integral struck-up lips alongside of and in contact with the side edges of the strap ends, and having also openings below the said lips where the latter have been struck out, a portion of the strap ends adjoining and in contact with th aforesaid lips overlying the said openings



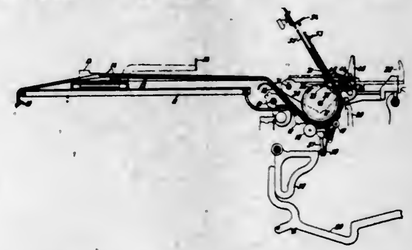
and adapted to be bent so as to lie in the said openings with the lips in close clamping engagement with the exposed surfaces of the bent portions of the strap ends, and said bent portions occupying the said openings out of which the lips have been taken, substantially as described.

1,348,486. COMBUSTION-CHAMBER. PHILIP D'H. DRESSLER, Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 20, 1919. Serial No. 339,488. 4 Claims. (Cl. 25—132.)



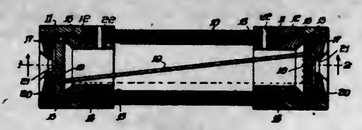
1. In a tunnel kiln, a combustion chamber having its walls formed of sections of refractory material separated by joints transverse to the length of the sections and having shoulders which overlap at the joints to an extent greater than the separation of the sections resulting from normal changes in the kiln chamber and having the overlapping surfaces of the shoulders similarly inclined to the longitudinal axis of the chamber.

1,348,487. TYPEWRITING-MACHINE. JULIUS DUCKSTINE, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 10, 1918. Serial No. 249,222. 26 Claims. (Cl. 197—126.)



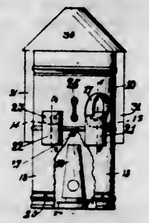
1. In a typewriting machine, the combination with a platen, of a frame on which said platen is journaled, a second frame upon which the first frame is hinged to swing upwardly and rearwardly out of working position, and a system of line-spacing mechanism carried upon said swinging frame.

1,348,488. FUSE. ALFRED L. EUSTICE, Chicago, Ill. Filed May 16, 1918. Serial No. 234,859. 5 Claims. (Cl. 200—132.)



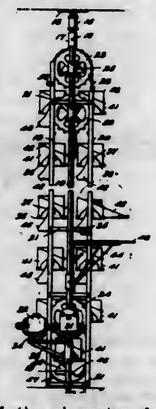
4. In an electric fuse, the combination of a shell, and a closure therefor including a ferrule fitting the outside of the shell, and a sleeve threaded into the shell for preventing shrinkage of the latter and provided with means for holding the ferrule on the shell.

1,348,489. NON-FREEZABLE WATERING DEVICE. CHESTER C. FIFIELD, Des Moines, Iowa. Filed Feb. 10, 1919. Serial No. 276,205. 5 Claims. (Cl. 119—73.)



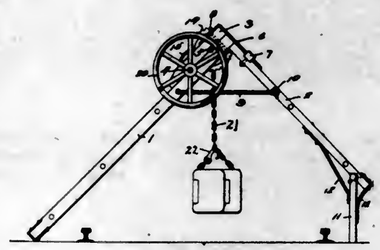
5. In a device of the class described, a tank, a trough mounted thereon and adapted to be filled therefrom, a heating chamber formed below said tank, adapted to receive a heating device adjacent to the bottom thereof, a shield and heat retaining member extended downwardly from the upper edges of the trough to position spaced below the top of the chamber, said shield being shaped to form an air passage with an outlet opening adjacent to its upper portion and an inlet opening at the bottom thereof, a cover member disposed above the tank and adapted to form a warm air chamber above the tank, means for forming a conducting passageway down the side of the tank, the upper end of which communicates with the warm air chamber and the lower end being open, and means for permitting the hot air in the heating chamber to enter said shield and said conducting passageway at points spaced upwardly from the bottom thereof.

1,348,490. STORING AND DELIVERING APPARATUS. EDWIN R. GILL, Yonkers, N. Y. Filed July 22, 1916. Serial No. 110,664. 4 Claims. (Cl. 45—3.)



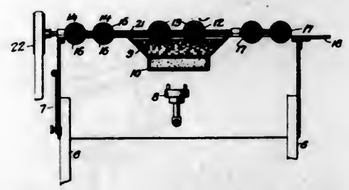
1. In a device of the character described, sprocket wheels arranged over each other, chains on said wheels, and motive means for said wheels and chains; in combination with carriers pivotally suspended from said chains, a fixed stop, and steadying plates on said carriers each having an edge adapted to slide on said stop and suitably shaped to preserve the horizontal position of the carriers during the first portion of the movement over one end of the device.

1,348,491. DRAW-BAR LIFTER AND HOLDER. ARLE GRIGSBY, Olney, Ill., assignor of one-half to John Lynch, Olney, Ill. Filed Aug. 13, 1919. Serial No. 317,257. 1 Claim. (Cl. 254—145.)



In a drawbar lifter and holder, the combination of a plurality of supporting frames disposed at an inclination to each other, means for rigidly but detachably securing said frames one to the other at their upper ends said means including metal straps projecting beyond one of the frames, a winch mounted on the upper end of one of the frames, means for manually operating said winch, and uprights to which the lower end of one of the supporting frames is secured, whereby to raise the apparatus sufficiently to permit a truck to be run under the frame without the supporting frames projecting much beyond the rails of the railroad track.

1,348,492. STOPPING-OUT MACHINE FOR ELECTROTYPERS. PATRICK F. HAGGERTY, New York, N. Y. Filed Jan. 10, 1920. Serial No. 350,683. 5 Claims. (Cl. 91—51.)

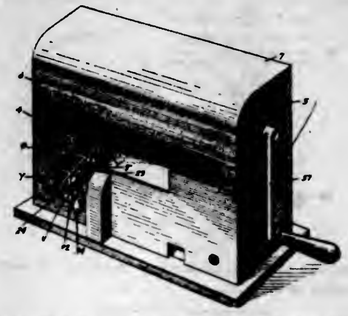


1. In a stopping out machine for electrotypers, the combination of a frame supporting a pan adapted to contain a liquefied non-conductive substance, rollers journaled on the edge of the pan and adapted to carry the non-canductive substance, feeding rollers, and means for heating the pan and the feeding rollers.

1,348,493. ENVELOP SEALING AND STAMPING MACHINE. IRVING HINERFELD, New York, N. Y. Filed Apr. 21, 1919. Serial No. 291,694. 14 Claims. (Cl. 216—3.)

2. Mechanism of the character described embodying means for sealing and stamping an envelop, means for selectively feeding one of a plurality of strips of stamps

of different denominations into a position to be applied to the envelop, and means for severing the stamp to be



applied from a strip of which it forms a part and simultaneously moistening said stamp.

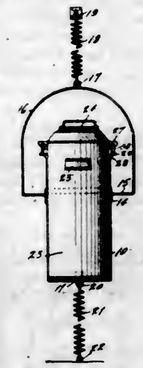
1,348,494. PROCESS OF TREATING LIME. ABRAHAM E. HORN, New York, N. Y. Filed June 12, 1919, Serial No. 303,590. Renewed June 28, 1920. Serial No. 392,512. 7 Claims. (Cl. 106—27.)

1. The process of treating lime which comprises reacting on quick lime with water sufficient in quantity to produce a dry powder and in adding a fatty acid before hydration is completed.

1,348,495. PHOSPHATIC FERTILIZER AND ART OF MANUFACTURING THE SAME. CARLTON C. JAMES, Honolulu, Hawaii. Filed May 28, 1917. Serial No. 171,575. 17 Claims. (Cl. 71—7.)

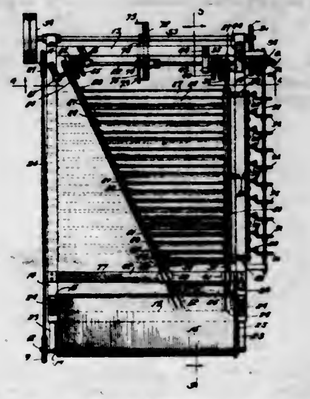
17. As a new manufacture the above-described pulverulent phosphatic fertilizer in which phosphoric acid appears principally as a di-calcium phosphate.

1,348,496. CHURNING DEVICE. HERBERT W. JESTER, Dallas, Tex. Filed Oct. 20, 1919. Serial No. 331,904. 2 Claims. (Cl. 259—91.)



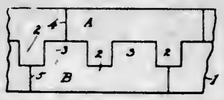
1. In a churning device; a carrier including a substantially U-shaped element, a base bar secured to the bottom of the U-shaped element and extending transversely thereof and having one end bent upwardly to form a stop, a U-shaped guard band secured to the U-shaped element and extending transversely thereof toward the stop; a can removably mounted within the carrier; keepers secured to the can; pivoted elements carried by the U-shaped element to engage the keepers and draw them downwardly; an inverted U-shaped bail substantially larger than the can and connected with the U-shaped element; a removable cover for the can; a spring connected with the bail; and a second spring connected with the U-shaped element.

1,348,497. TOBACCO-LEAF STRETCHING AND SIZING MACHINE. BENJAMIN J. KAHN, Elizabeth, N. J. Filed July 26, 1918. Serial No. 246,812. 1 Claim. (Cl. 131—60.)



In a machine of the class described, having means for feeding along tobacco leaves of varying lengths and stretching said leaves, and means for receiving from said feeding means leaves of respective predetermined lengths and delivering the same to locations selected therefor, whereby the leaves become stretched and sized and the leaves of the respective predetermined sizes collected together, the combination of means whereby the mechanism for feeding along the tobacco leaves is moved intermittently.

1,348,498. ROOFING. CHARLES L. KELLER, Wyoming, Ohio. Filed Sept. 22, 1919. Serial No. 325,340. 3 Claims. (Cl. 108—7.)



1. That method of cutting out strip shingles for use on a roof which consists in cutting a median line through a piece of roofing material, said line leaving alternate extensions from the material at each side of the cut, and in cross cutting the material into sections or units by staggered lines intersecting the spaces between extensions intermediate the walls of said extensions.

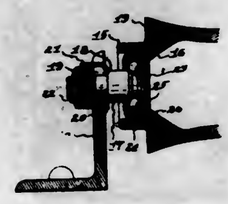
1,348,499. MESSAGE-METER DEVICE. HENRY H. KNIPE, Olney, Ill. Filed Aug. 28, 1919. Serial No. 320,512. 2 Claims. (Cl. 120—1.)



1. As a new article of manufacture, a metal holder of the type described comprising a narrow base plate suit-

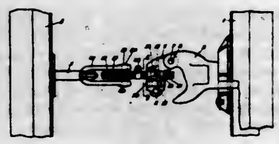
able for holding a pad, a raised platform at one end of the plate, upstanding plate portions at the rear of the raised platform said portions being shaped to receive a clock, and a spring secured to the rear of the aforesaid platform and releasably holding the clock in place.

1,348,500. GRAVITY-CARRIER. CHARLES HENRY LISTER, North St. Paul, Minn. Filed May 6, 1918. Serial No. 232,881. 3 Claims. (Cl. 64—36.)



2. A mounting for a conveyer roller comprising a stud adapted to extend through an aperture in a support, said stud being formed with an annular shoulder projecting inwardly from the support, means for locking the stud in the support, a roller formed with a hollow boss at each end, said boss inclosing a socket symmetrically converging toward its inner extremity, an annular ball race upon the inner end of the stud within said socket, a series of balls in said race, and a pair of annular ball retainers arranged one about the other with the outer retainer formed to fit said socket and rotate therein.

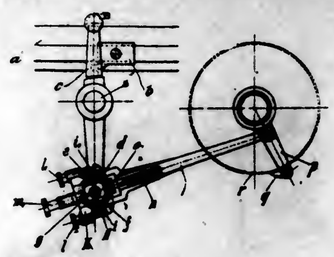
1,348,501. CAR-COUPLING. BURNS D. LOCKWOOD, Bellevue, and GEORGE A. SUCKFIELD, Avalon, Pa., assignors to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Dec. 3, 1917. Serial No. 205,069. 3 Claims. (Cl. 213—65.)



1. The combination with a coupler of a knuckle removably secured to said coupler, one end of said knuckle comprising spaced portions, a member extending between and secured to said portions, a block between said portions, trunnions on said block, one of said trunnions being loosely mounted in said knuckle and the other of said trunnions being loosely mounted in said member, and an adjusting member having one of its end portions mounted in said block.

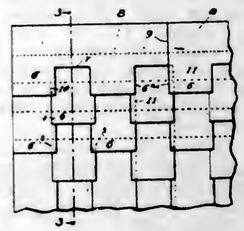
1,348,502. MACHINE-TOOL. JOHANNES LOOSE, Cannstatt-Stuttgart, Germany, assignor to Fortuna-Werke, Specialmaschinenfabrik, G. M. B. H., Cannstatt-Stuttgart, Germany. Filed Sept. 11, 1917. Serial No. 190,764. 4 Claims. (Cl. 51—4.)

1. In a machine tool in combination, a reciprocating table, two stops on said table, a tool feed ratchet gear and a connecting rod connected to it and having a substantially rectilinear motion, two stops on said connecting rod, a double-armed lever adapted to coöperate with either one or the other of said stops to give rectilinear motion



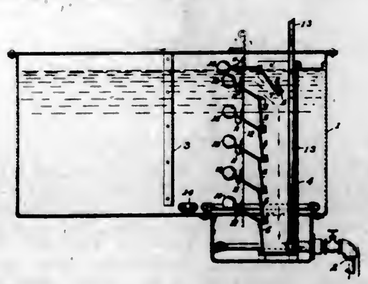
to said rod and means influenced by the stops on said table for reversing said lever.

1,348,503. SHINGLE. ALAN R. LUKENS, Jr., Wyoming, Ohio. Filed Sept. 13, 1919. Serial No. 323,548. 4 Claims. (Cl. 108—7.)



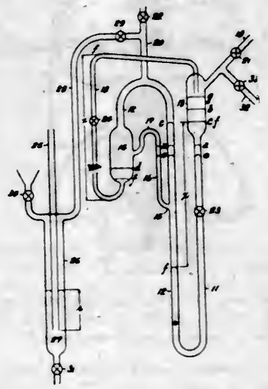
1. A strip shingle unit, adapted for obtaining varieties in panel-like and interlaced effects when laid in overlapping courses without exposure of the roof foundation beneath, said units abutting each other lengthwise of the courses, which unit comprises a body portion having at least one extension projecting laterally therefrom and at least one space along the body portion free of such projection, said extension and space being of different relative widths and the space being of sufficient width to form a panel-like exposure having a substantial body as distinguishable from the lines surrounding it, whereby the bounding line of spaces and projections in a roof laid from such units, will form a continuous line of broken outline transverse the courses.

1,348,504. OIL-PUMP TRUNK. GEORGE R. MCDONALD, Berkeley, Calif. Filed Dec. 3, 1918. Serial No. 265,166. 5 Claims. (Cl. 257—198.)



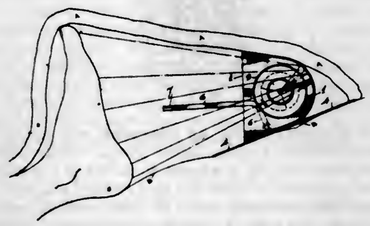
1. An apparatus of the class described comprising a receptacle, a pumping trunk therein, a heating pipe in the receptacle, and movable gates on the side of the trunk whereby the material delivered to the pump by the trunk will always be taken from the upper layers of the fluid in the receptacle.

1,348,505. AUTOMATIC VALVE. OTTO MAASS, Montreal, Quebec, Canada. Filed Apr. 15, 1918. Serial No. 228,732. 20 Claims. (Cl. 137—111.)



1. In a device of the character described, high and low pressure conduits, a connection therebetween and liquid means for automatically and intermittently closing the connection between said conduits.

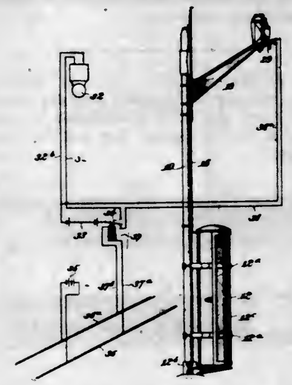
1,348,506. FOOT-WARMER. JOSÉ A. MATA, Berkeley, Calif. Filed Nov. 25, 1919. Serial No. 342,020. 1 Claim. (Cl. 219—45.)



A foot warmer comprising a housing open on one side thereof; lateral supports secured to the lower portion of the housing to retain the open portion thereof in operative position; an electric switch socket mounted in one end of the housing; a lamp mounted within said socket and extending into the housing; and a switch operating lever operatively connected to the socket and extending laterally to the housing and beyond the open side thereof whereby said switch may be operated by foot pressure to extinguish or light the lamp.

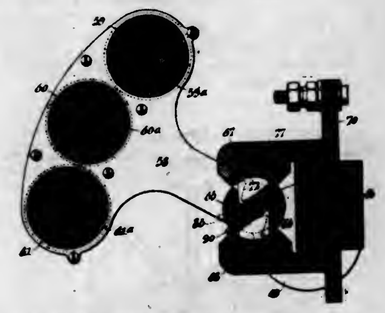
1,348,507. RAILROAD-CROSSING WARNING-SIGNAL. ELOF HERMAN MEDÉN, Elizabeth, N. J., assignor to A. G. A. Railway Light & Signal Co., Inc., Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 4, 1917. Serial No. 140,554. 22 Claims. (Cl. 246—130.)

1. As a means for warning traffic, mechanism adapted to produce light signals and illumination in the path of traffic travel, said mechanism comprising a fixedly-positioned legend-bearing sign, and means associated with the sign support for illuminating the sign and for giving a signal of precaution in the direction of approaching traffic, said means including a light-ray projecting device positioned opposite to and having a lens adapted to project light rays directly on the sign to illuminate it, said device also having a light-concentrating lens facing the direction of approaching traffic, a gas burner within said device and positioned to coöperate with both lenses to produce con-



current precautionary signaling and sign illumination, and means controllable from a remote point for controlling the activity of the light signals.

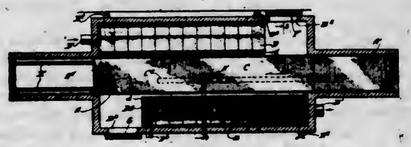
1,348,508. RAILWAY SIGNALING DEVICE. ELOF H. MEDÉN, Elizabeth, N. J., assignor, by mesne assignments, to A. G. A. Railway Light & Signal Co., Inc., Elizabeth, N. J., a Corporation of New Jersey. Filed Feb. 15, 1918. Serial No. 217,299. 10 Claims. (Cl. 246—53.)



7. In a railway signaling device, the combination of a plurality of electro-magnets, rotatable armatures for said magnets, means for causing the said armatures to rotate together, the said means permitting relative rotation of said armatures, and a signal member secured to one of said armatures and rotating therewith.

1,348,509. [WITHDRAWN.]

1,348,510. TUNNEL-KILN. PAUL A. MEEHAN, New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 5, 1919. Serial No. 342,723. 18 Claims. (Cl. 25—142.)



1. In a kiln, the combination with a kiln chamber having a ware inlet and egress port and means for maintain-

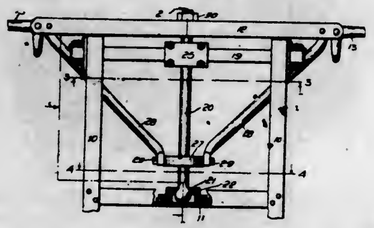
ing a high temperature zone displaced longitudinally of the kiln from said port, of a carrier adapted to reciprocate in said kiln to alternately carry ware back and forth between said port and said zone.

1,348,511. TUNNEL-KILN. PAUL A. MEEHAN, New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 5, 1919. Serial No. 342,724. 6 Claims. (Cl. 25—142.)



1. A combustion chamber structure for kiln heating provided at one end with air and fuel inlets and an outlet for products of combustion, and formed internally with two passages or chambers extending longitudinally of the structure and communicating, one with said inlets and the other with said outlets at the one end of the structure, and in communication with one another at the opposite end of the structure.

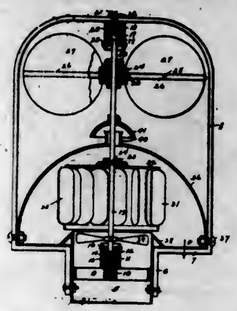
1,348,512. FRONT-END SUSPENSION STRUCTURE FOR SELF-PROPELLED VEHICLES. CLAUD E. MILLS, Des Moines, Iowa. Filed July 16, 1919. Serial No. 311,376. 3 Claims. (Cl. 280—112.)



1. In a device of the class described; a frame; a front axle adjacent thereto, a rod secured to said front axle and extending longitudinally of said frame, and connected with said frame by means of a universal joint, a spring supported on said frame, said rod being operatively connected with said spring between said axle and said universal joint, a collar on said rod between said spring and said universal joint, and a brace rod extending from said collar to said axle on opposite sides of said rod.

1,348,513. VENTILATOR. WORTHIE W. MOREY, Columbus, Ohio. Filed Aug. 25, 1919. Serial No. 319,545. 5 Claims. (Cl. 98—2.)

3. A ventilator comprising a stem, a weather-hood of inverted bowl shape and of considerably greater diameter than the stem, overlying said stem and having its lower edge disposed below the level of the top of the stem, a centrifugal fan of inverted cup shape disposed above the mouth of the stem the hollow interior thereof receiving the air from said stem, said fan comprising blades which eject the air from the interior thereof to the interior of the weather-hood, the curved walls of the latter deflecting said air downwardly and out of the space between the stem and the lower part of the weather-hood, an axially acting



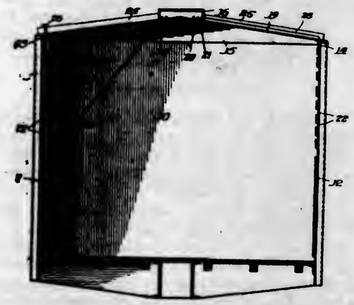
fan within the stem, for directing air into the interior of the centrifugal fan, a spindle by which both of said fans are carried, and a propeller upon said spindle.

1,348,514. THERMAL CIRCUIT-CONTROLLER. NAGAKATA NISHI and NAGASUMI NISHI, Berkeley, Calif. Filed Jan. 11, 1919. Serial No. 270,728. 14 Claims. (Cl. 200—139.)



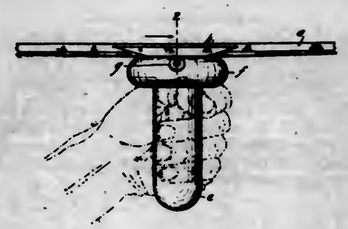
9. In an electric iron, an expansible and contractible stud mounted on the base of the iron, a contact mounted on said stud, an arm, a contact on said arm for engaging said other contact to close the iron circuit, and means for automatically swinging said arm and breaking said contacts when the iron reaches a predetermined degree of heat.

1,348,515. RAILWAY-CAR. SPENCER OTIS, Chicago, Ill., assignor to National Dump Car Company, a Corporation of Maine. Filed Mar. 29, 1918. Serial No. 225,401. 8 Claims. (Cl. 105—377.)



1. In a railway car having a permanent roof, the combination of a roof frame member, and a door pivotally connected thereto for a downward movement into the car whereby the car may be loaded.

1,348,516. RESILIENT SUPPORT FOR PLASTERERS' HAWKS. ERNEST J. PECK, Portland, Oreg. Filed Mar. 25, 1920. Serial No. 368,772. 4 Claims. (Cl. 72—136.)



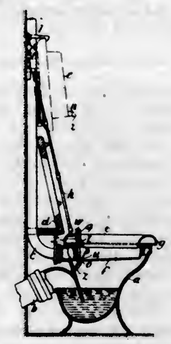
1. A hand-cushion for hawks consisting of an annular hollow body provided with a valve for inflation, said valve being located in a plane oblique to the horizontal for the purpose specified.

1,348,517. REMOVABLE SELF-HOLDING WASHER FOR CLOCK-MOVEMENTS. WILSON E. PORTER, New Haven, Conn., assignor to New Haven Clock Co., New Haven, Conn., a Corporation. Filed Sept. 6, 1919. Serial No. 322,021. 1 Claim. (Cl. 85—8.)



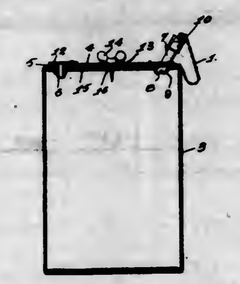
In a clock-movement, the combination with a stud having a peripheral groove, of a removable self-holding washer having a central opening large enough to permit it to be passed over the said stud and registered with the said groove, and the said washer having a weakening-notch in its outer edge and a radial opening-and-closing notch intersecting its outer edge and the said opening, whereby the said washer may be closed for the entrance of the edges of its said opening into the said groove.

1,348,518. BIDET. DAVID ALEXANDROVITCH RUFFMAN, Hyde Park, London, England. Filed Jan. 18, 1919. Serial No. 271,836. 7 Claims. (Cl. 4—25.)



1. A bidet designed for use in connection with a water closet comprising a basin and a hollow rim which latter forms the seat of the bidet and into which hollow rim the water is introduced, the basin of the said bidet being provided with a discharge nozzle through which the contents of the bidet can be discharged into the water closet pan.

1,348,519. COMBINED CAN-OPENER, COVER, AND DISPENSER. WILLIAM F. SIMMONS, St. Louis, Mo. Filed July 19, 1919. Serial No. 312,099. 1 Claim. (Cl. 221—23.)



A combined can opener, cover and dispenser comprising a plate, a tubular member provided with a cutting edge secured to one end of said plate and answering as a punch for perforating the end of a can and also as a vent for dispensing the contents thereof, a cover plate pivotally secured to the plate and adapted to open and close said tubular member, a straight and inclined tubular pouring member mounted in the opposite end of said plate and having its lower end slitted, a cap adapted to be mounted on the end of the said pouring member, a flexible connection between said cap and plate, a gasket mounted on said tubular members, and a thumb screw mounted in the plate between said tubular members and adapted to be screw seated in an opening formed through the end of the can for securing the device to the can.

1,348,520. GAME. WILLIAM I. SMITH, Oak Park, and JAMES R. IRVIN, Chicago, Ill. Filed Aug. 16, 1919. Serial No. 317,984. 7 Claims. (Cl. 46—41.)

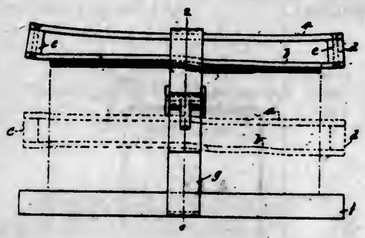


3. In a game, the combination with a rectangular body including a bottom wall, a pair of longitudinal side walls, a pair of end walls, and a transparent top wall, a goal carried by the bottom wall and engaging one of the end walls and arranged in spaced relation to the longitudinal side walls, said goal having an entrance opening formed therein opposite to the end wall of the body engaged by the goal, upstanding plates arranged adjacent to the entrance opening, and a third plate arranged in front of the entrance opening in angular relation to the first named plates.

1,348,521. PRESS-BOARD FOR STACKS OF SOLES. JOHN A. STONE, Derry, N. H., assignor to Irving L. Keith, Haverhill, Mass. Filed June 23, 1919. Serial No. 306,126. 3 Claims. (Cl. 100—57.)

1. A pressing device for the purpose described, comprising a pair of resilient boards disposed in parallelism

and spacing devices disposed between said boards, at their ends, to hold them in spaced relation and to permit them



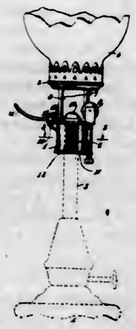
to be flexed toward each other, at points between said spacing devices.

1,348,522. SPRING-TIRE. MARTIN O. SWEIVEN, Olivia, Minn. Filed Nov. 14, 1918. Serial No. 262,565. 3 Claims. (Cl. 152—37.)



1. A tire comprising an annular tread section, a separate laterally expansible rim-engaging section adapted to seat upon the usual channeled rim, and to support said tread section in movable relation thereto, means for laterally expanding said rim-engaging section to secure it upon the rim, and cushioning means disposed between and connected to said tread section and rim-engaging section for controlling the relative movement of said tread section and rim-engaging section and being effective to transversely contract the latter when said expanding means is released.

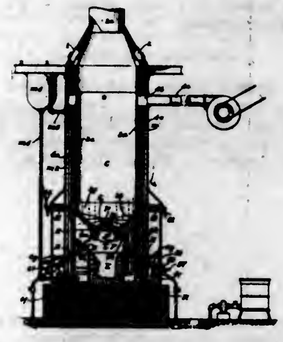
1,348,523. LAMP. EMILE VIOLLET, Paris, France. Filed Feb. 3, 1919. Serial No. 274,831. 6 Claims. (Cl. 67—13.)



1. In a lamp, the combination of a support slidable vertically upon the burner tube, a chimney socket fixed to said slidable support, and a spring clamp having side projecting members for the operation thereof mounted in said support and adapted to engage the burner tube and hold the support in adjusted position.

1,348,524. [WITHDRAWN.]

1,348,525. SMELTING-FURNACE. RANDOLPH G. WARD, New York, N. Y., assignor to Independent Mines Smelting Company, Inc., New York, N. Y., a Corporation of Delaware. Filed June 19, 1918. Serial No. 240,860. 59 Claims. (Cl. 263—27.)

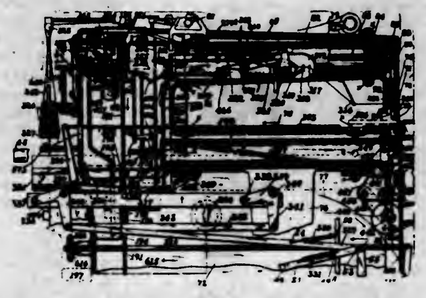


31. In a smelting-furnace of the character described, in combination, an upper charge-chamber; a lower combustion chamber; a horizontally-disposed furnace-hearth interposed between said upper and lower chambers, consisting of an annular charge-supporting and transversely-curved metal-surface, constituting a hearth-wall, located in substantial coincidence with symmetrically and oppositely disposed arcs, and having between them a hearth-opening, said wall also having a narrow inner zone tangential to a line which substantially coincides with the normal angle-of-repose of the material resting thereon.

1,348,526. SEWING-MACHINE AND CUTTING MECHANISM THEREFOR. JOHN PETER WEIS, Nyack, N. Y., assignor, by mesne assignments, of one-half to Metropolitan Sewing Machine Corporation, Nyack, N. Y., a Corporation of Delaware. Filed Oct. 16, 1914, Serial No. 867,005. Renewed Dec. 24, 1919. Serial No. 347,189. 95 Claims. (Cl. 112—2.)

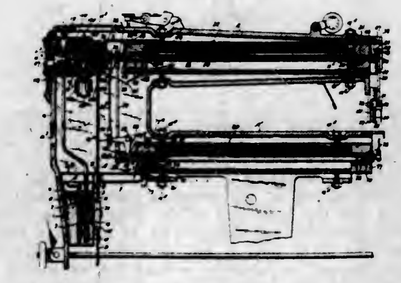
1. The combination in a machine having a pattern-cam control, of a main shaft; a fly and driving wheel loose on the shaft, the wheel having a laterally-projecting rim; a spider fixed on the shaft and located within said rim, the spider being provided with spring plates for engaging said rim; clutch-levers pivotally mounted on the spider and constructed to engage the spring-plates; a slidable member on the shaft constructed to engage and disengage the levers; means for moving said member, such means comprising a rockable starting-post; trolley rails and link connections operatively connected with the starting post; a cam mechanism for raising and lowering the trolley rails; operative connections between the latter and the trolley rails; an implement-carrying head; a pattern cam; operative connections between the pattern cam and the

implement-carrying head, for moving the latter; and a stop mechanism under the control of the trolley rail and



constructed and operating to arrest the operation of the implement carried by said head.

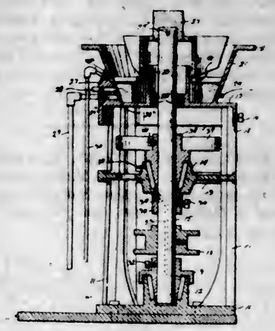
1,348,527. LUBRICATING SYSTEM AND SEWING-MACHINE CONSTRUCTION. JOHN PETER WEIS, Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Nyack, N. Y., a Corporation of Delaware. Original application filed Oct. 16, 1914, Serial No. 867,005. Divided and this application filed Apr. 29, 1916, Serial No. 94,354. Renewed Dec. 24, 1919. Serial No. 347,190. 11 Claims. (Cl. 112—256.)



1. The combination of a sewing-machine head having lengthwise chambered upper and under arms with a tube fixed in the upper arm chamber; top-shaft bearings for supporting a top shaft in said tube; a tubular top shaft; a tube fixed in the under arm chamber; bearings for supporting a looper shaft in the latter tube; a tubular looper shaft; means operatively connecting the top and looper shafts to secure simultaneous movement of such shafts; a stop motion for the top shaft; a drive pulley; and means for giving endwise movement to the looper shaft; and means for conveying oil to the tubular shafts.

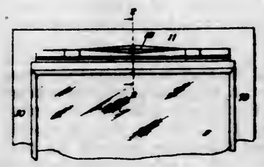
1,348,528. CRUDE-OIL BURNER. JOHN WESTALL, Fall River, Mass. Filed Jan. 14, 1920. Serial No. 351,340. 12 Claims. (Cl. 158—28.)

1. In a burner of the character described, a combined burner plate and oil chamber having a centrally disposed shaft opening, a series of air inlet openings arranged around the shaft opening, an upstanding wall exteriorly of the air openings, a shaft extending upward through the burner plate, a breaker and mixer mounted upon the shaft and having blades disposed above the bottom of the burner plate and oil chamber, means for rotating the shaft,



and means for discharging oil within the oil chamber and carrying off overflow therefrom.

1,348,529. METAL-FRAME CONSTRUCTION. CHARLES O. WHITNELL, Des Moines, Iowa. Filed July 8, 1919. Serial No. 309,408. 2 Claims. (Cl. 108—16.)



1. In a sheet metal window frame; a substantially flat flashing, having at its inner edge a frame member bent to stand at right-angles with relation to the flashing, said flashing and frame member having an upwardly inclined rib between their ends along their line of junction, said rib being tapered from its central portion toward its ends.

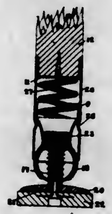
1,348,530. ELECTRODE-HOLDER. THOMAS WILLARD, San Bruno, Calif. Filed July 25, 1919. Serial No. 313,929. 3 Claims. (Cl. 219—8.)



2. An electrode holder for electric welding comprising an insulated member having a metallic cap on one end

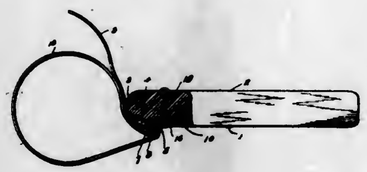
thereof; a threaded metallic rod slidably mounted within said member and cap and having a metallic head on the outer end thereof; means for connecting a metallic conductor to the other end of the rod; and insulated means rotatably mounted upon the insulated member and engaging the threaded portion of the rod whereby rotation of said insulated means will move the rod longitudinally within the insulated member to engage and retain an electrode between the head and metallic cap.

1,348,531. FOOT FOR CRUTCHES, WALKING-STICKS, LADDERS, AND THE LIKE. HARRY HENVILLE AMADIO, Redfern, near Sydney, New South Wales, Australia. Filed June 3, 1919. Serial No. 301,525. 4 Claims. (Cl. 135—54.)



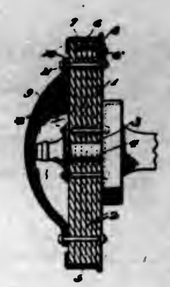
4. A foot of the kind hereinbefore described comprising a shoe member, a socket member, two hemispherical, cup-shaped parts fitting within the socket member, a resilient element urging the cup-shaped parts in opposite directions, a buffer spring interposed between the ball and socket joint and the crutch or other article, a projection on one of said cup-shaped parts, and a stem provided on the cup-shaped part having the projection and extending through an aperture in the other of said parts; the extremity of said stem and the socket member being connected, one to the crutch or other article and the other to the shoe member, while the said projection is adapted to move in a chamber having cushioned walls.

1,348,532. JAR-OPENER. OSCAR ARNDT, Detroit, Mich., assignor of one-half to Roman Arndt, Detroit, Mich. Filed Mar. 22, 1919. Serial No. 284,272. 1 Claim. (Cl. 81—3.1.)



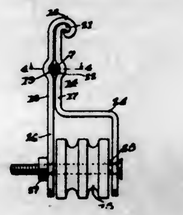
A jar opener comprising a lever, a plate mounted thereon at a point between the ends thereof and carrying at one end a bar which is spaced from the intermediate portion of the plate and at its other end a tooth which is embedded in the material of which the lever is composed, a strap having one end portion inserted between the plate and the lever and the securing device passing transversely through the plate, strap and lever.

1,348,533. VEHICLE-WHEEL. HARRY N. ATWOOD, Smithfield, N. C., assignor to The Veneer Products Company, Smithfield, N. C. Filed Jan. 23, 1919. Serial No. 272,655. 2 Claims. (Cl. 21—69.)



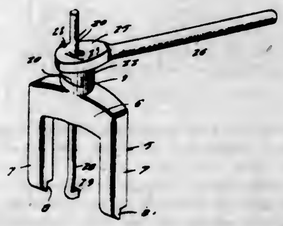
1. In a vehicle wheel, a body comprising veneer laminæ united face to face, and a face plate also comprising veneer laminæ united face to face, the said face plate being secured at its peripheral portion to the outer face of the body.

1,348,534. INSULATOR-BRACKET. CHARLES H. BEINE, Kenosha, Wis., assignor of one-half to George C. Brown, Milwaukee, Wis. Filed June 29, 1918. Serial. No. 242,562. 3 Claims. (Cl. 173—321.)



1. A wire support comprising two members, means providing a substantially hinged connection between said members at their upper ends, opposed curved portions in said members providing a wire receiving opening, the lower end of one of the members being substantially straight and the lower end of the other member being directed outwardly and downwardly to provide a space between the lower ends of said members, an insulating member disposed in the space between the lower ends of said members, and common means for securing a wire within the wire receiving opening and the insulating member between the lower ends of said members.

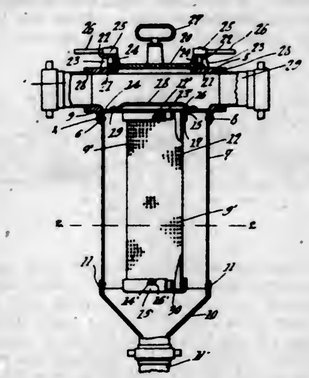
1,348,535. RAIL-BENDER. PEARL M. BIBB, Minden, W. Va. Filed Apr. 18, 1917. Serial No. 162,927. 1 Claim. (Cl. 153—38.)



A rail bender including a substantially U-shaped frame having parallel legs and a relatively thick web, the ends

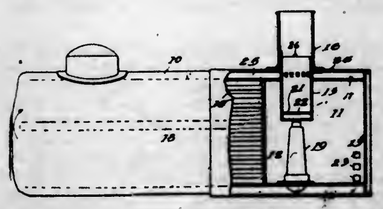
of the legs having one of their side faces provided with alined cutout portions forming shoulders, an enlargement formed on the outer face of the central portion of the web provided with spiral faces, a draw rod slidably mounted in the web portion and enlargement, wedge collar rotatably engaged with the outer face of the enlargement and slidably mounted on the draw rod, a reduced polygonal extension carried by the wedge collar, a handle non-rotatably engaged with the polygonal extension, said draw rod having the lower end thereof bent to provide a hook to cooperate with the shoulders of the legs of the frame, and an adjustable pin carried by the draw rod for engaging the wedge collar and handle, whereby relative movement between the handle, draw rod and wedge is eliminated when the device is in operation, as and for the purpose specified, and whereby the device may be quickly applied to the member to be bent from the side thereof.

1,348,536. MILK-STRAINER. WILLIAM T. BILLINGS and FREMONT SCHRYVER, Ithaca, N. Y. Filed Jan. 19, 1920. Serial No. 352,402. 2 Claims. (Cl. 210—154.)



1. In a straining device, a head, a body portion depending from the head and having a funnel-shaped member connected to the lower end thereof, an annular shoulder formed at the upper end of the body portion, a straining device comprising a relatively long tubular member having laterally extending pins secured adjacent to the upper end thereof, a circular plate resting on the shoulder and having a depending flange, said flange having slots formed therein, said slots adapted to receive the pins of the straining member for removably securing the straining member to the circular plate, and a removable bottom supported on the lower end of the straining member.

1,348,537. SMOKE-CONSUMING DEVICE FOR LOCOMOTIVES. THOMAS K. BISHOP, Powell Station, Tenn. Filed Apr. 12, 1917. Serial No. 161,535. 5 Claims. (Cl. 162—4.)



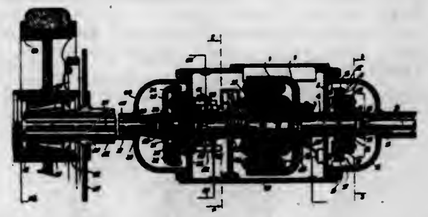
4. The combination with a locomotive boiler and a steam exhaust nozzle therein, of a pipe slidably fitted in the stack of the boiler and having an opening in its lower end and also provided with circumferentially disposed openings formed in the upper portion thereof, the pipe being located above the exhaust nozzle, a shell interiorly of the locomotive boiler to form an annular space, baffle plates arranged longitudinally between the shell and said boiler for dividing the space into upper and lower compartments, said shell having a plurality of openings in said forward end for establishing communication between the smoke box and the lower compartment, a disk mounted in the lower portion of the pipe and having an opening of considerably less size than the opening in the bottom thereof to effect back pressure of steam in the pipe from said steam exhaust nozzle for the automatic raising of the pipe, and a stop for limiting the sliding movement of the pipe.

1,348,538. TANK-MOUNTING. ROBERT FULTON BLAKE, Boston, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Feb. 9, 1916. Serial No. 77,148. 4 Claims. (Cl. 181—5.)



1. Apparatus for submarine signaling comprising a ship's hull, a tank located against the ship's hull, said tank containing a liquid in contact with the ship's hull below the water line, a submarine signaling mechanism located in said liquid whereby said signaling mechanism will be put in good acoustic connection with the water exterior to said ship, and both acoustical and electrical insulating means located between said tank and said ship's hull adapted to prevent liquid leakage from said tank.

1,348,539. ELECTRIC MOTOR. JULIUS M. BREITENBACH, New York, N. Y. Filed Mar. 23, 1917. Serial No. 156,924. 4 Claims. (Cl. 172—36.)

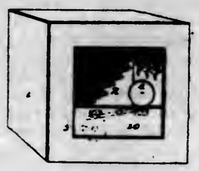


2. In an electric motor, a field magnet and an armature rotating in opposite directions, a casing inclosing the said motor elements, independent drive shafts extending through and having bearings in respective ends of the casing and carrying the field magnet and armature respectively, opposite driven members maintained in axial alinement with the drive shafts, and gearing between each drive shaft and the adjacent driven shaft, one gearing driving its driven shaft in a direction opposite to that of its driving shaft, and gearing housings carried by the casing, the casing and said housings constituting lubricant containers and dust excluding means.

1,348,540. AUTOMATIC SAFETY-TARGET. GEORGE F. BAIGGS, Beaumont, Tex. Filed Apr. 17, 1920. Serial No. 374,652. 9 Claims. (Cl. 124—15.)

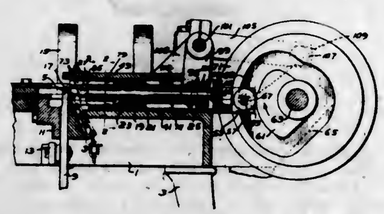
1. In a target device, a plurality of targets, each adapted to assume an inoperative and an operative posi-

tion, and means separate from but adapted to be engaged by said targets whereby the movement of one of said



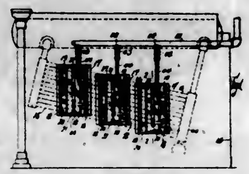
targets from operative to inoperative position causes another of said targets to move from inoperative to operative position.

1,348,541. CHAIN-MAKING MACHINE. EDWIN CHARLES CHRISTIE, St. Catharines, Ontario, Canada, assignor to The Columbus McKinnon Chain Company, Columbus, Ohio, a Corporation of Ohio. Filed Jan. 10, 1919. Serial No. 270,548. 12 Claims. (Cl. 59—16.)



1. In a chain forming machine, the combination of a former, rigid members which are unyielding relative to each other to engage a link blank at opposite sides of a point midway between the ends of the blank, and actuating means for said members to cause the latter firmly to hold the blank against the former.

1,348,542. TUBE-CLEANER. CHARLES T. COE, Kearney, N. J., assignor, by mesne assignments, to Diamond Power Specialty Company, Detroit, Mich., a Copartnership composed of Raphael Herman and Samuel J. Herman. Filed June 3, 1911. Serial No. 631,105. 5 Claims. (Cl. 122—392.)



1. In a tube cleaner for a boiler the combination of a supply pipe, a flexible conduit extending from said pipe, an adjustably supported stand pipe connected to the conduit, a ball supported in a bearing on the side of the boiler and an outlet nipple extending from the said stand pipe through said ball, said stand pipe being adapted in its movement to impart longitudinal as well as lateral movement to the outlet nipple.

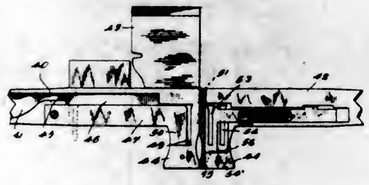
1,348,543. TRAP-GUN. ARTHUR CROCKETT, Kansas City, Mo. Filed June 3, 1919. Serial No. 301,508. 10 Claims. (Cl. 43—84.)

1. A trap gun of the class described comprising a breech, firing mechanism therein including a firing pin and trigger operating bait sustaining means, and a ground support for said gun connected with the mechanism for holding the bait means in accessible position and



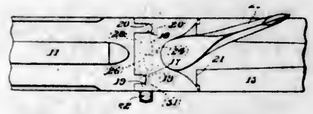
movable to cock the mechanism, said pin being free to move to the support after cocking of said mechanism and without movement of said support in firing the gun.

1,348,544. AUTOMATIC NAILING-HAMMER. JAY CRUMPACKER, McPherson, Kans. Filed Feb. 12, 1920. Serial No. 358,182. 5 Claims. (Cl. 1—45.)



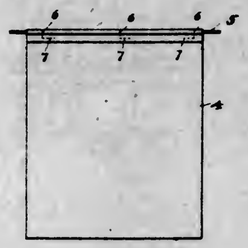
4. In a magazine hammer, a hammer body including a handle and head, said handle having a nail ordering slot therein leading to the head and formed with a lateral terminal part in the head, a trigger plate slidable over the terminal end of the slot and having a nail receiving slot positioned to aline with the terminal slot at one position, a second slot in the head offset from the first and open on the driving face of the head, said trigger plate being movable to aline the nail receiving slot with said discharge slot in the head, means to operate the trigger plate, and means to releasably engage a nail in the head at the outer part of the discharge slot, said trigger having a lug movable to extend across the discharge slot close above a nail engaged by said holding means.

1,348,545. BOLTING MECHANISM FOR GUNS. ARTHUR P. CURTIS, Ithaca, N. Y., assignor to Ithaca Gun Company, Ithaca, N. Y., a Corporation of New York. Filed May 17, 1919. Serial No. 297,812. 4 Claims. (Cl. 42—44.)



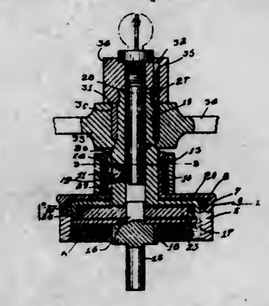
2. In a gun having hingedly connected body and barrel the engaging faces of which are respectively provided with grooves and keeper extensions adapted for reception therein when the gun is closed, one of said extensions having a keeper opening and the other having a keeper recess in axial alinement with said opening, a bolt transversely slidable in said body, positioned in said recess and opening at one extremity of its movement, the said bolt having a side notch adapted for the free movement of one of said extensions therethrough, when the bolt is at the other extremity of its movement with its inner end spaced from the path of travel of the other extension.

1,348,546. CARD-SUSPENDING DEVICE. WILLIAM C. CUTLER, North Glendale, Calif. Filed Mar. 9, 1920. Serial No. 364,561. 4 Claims. (Cl. 40—27.)



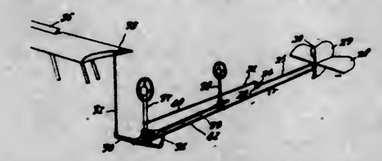
1. In a device of the class described in combination with a card and supporting and wearing means for the card, binding means for rigidly tying the card to the supporting and wearing means, and a cover for engaging the binding means and the card so as to prevent a disengaging of the binding means from the card thereby uniformly holding the several parts together.

1,348,547. STEERING-WHEEL LOCK. GEORGE R. DAVIDSON, Lenox, Mich. Filed Jan. 14, 1920. Serial No. 351,306. 3 Claims. (Cl. 70—129.)



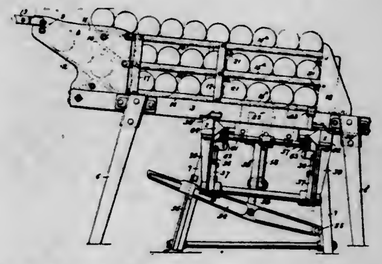
1. In a steering wheel lock, a supporting ring having connection with the steering column, an extension having connection with the supporting ring and having a lateral opening formed therein, a wheel supporting shank extending through the extension and having an opening in registry with the lateral opening of the extension, means for connecting a steering wheel to the wheel supporting shank, a locking ball disposed within the opening formed in the wheel supporting shank, and lock controlled means for forcing the locking ball into the opening formed in the extension, for locking the wheel supporting shank to the supporting ring.

1,348,548. AEROPLANE CONTROL. VINCENT DE DOMINICIS and FRANK A. REIP, East Orange, N. J. Filed Dec. 20, 1919. Serial No. 346,338. 4 Claims. (Cl. 244—29.)



1. In aeroplane control, the combination of a hollow stick, means whereby said hollow stick may be supported to swing both longitudinally and transversely, connections between said stick and the ailerons and affected only by the transverse swinging of said stick to cause adjustment of the ailerons, connections between said stick and the aeroplane elevators and adapted to be actuated only when the stick is swung longitudinally for raising and lowering the elevators, a steering shaft journaled in said hollow stick, a steering wheel on the stick for turning said shaft, and connections between said shaft and the aeroplane rudder for steering the aeroplane from said stick, said last named connections including a universal joint for allowing the movement of the stick longitudinally and transversely without disturbing the rudder control, substantially as described.

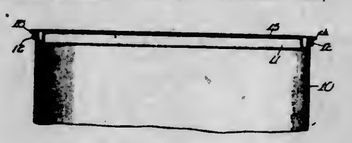
1,348,549. CAN-BOXING MACHINE. HAYWOOD G. DEWEY, Westminster, Md., assignor to The Fred H. Knapp Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 1, 1916. Serial No. 81,449. 38 Claims. (Cl. 226—15.)



1. In a can boxing machine, the combination of a runway for cans to be boxed, means for ejecting a series of cans from the runway into boxing position comprising a plunger adapted to engage the series of cans, and means for moving said ejecting means whereby a substantially curvilinear movement of the same is converted into a substantially horizontal movement thereof.

24. In a can boxing machine, the combination of means for supporting a series of cans in position to be boxed, and a box support arranged below said means and spaced therefrom whereby to constitute a guide for positioning the box over the series of cans, and means for moving said box support longitudinally.

1,348,550. CAN. JOSEPH DISTER, Hamilton, Ohio, assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 20, 1917. Serial No. 192,261. 1 Claim. (Cl. 220—42.)

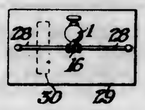


A can body having a pair of opposed friction seat walls extending inwardly from its open end and having the outer of said walls located in contact against the side wall of said body, whereby said wall is strengthened and maintained in undistorted cylindrical form for engagement by a corresponding friction wall of the cover, and a friction cover having a pair of friction seat walls disposed within the said opposed friction seat walls of the body.

1,348,551. LUBRICATOR. OSSON W. DOOLITTLE, Glenside, Pa. Filed Oct. 8, 1918. Serial No. 257,345. 3 Claims. (Cl. 184—55.)

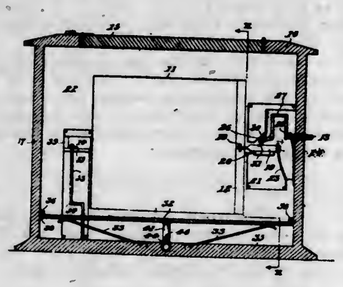
3. In a lubricator, the combination with a receptacle for lubricant having a screw threaded outlet at the bot-

tom thereof; of a valve body having a vertical tubular branch fitted to said outlet, and two tubular discharge branches; a conical valve chamber in said body, having a port opening from said receptacle; a rotary conical plug valve in said chamber, having a transverse port adapted to register with the port in said valve body, and a valve chamber, extending transversely in said plug valve, in communication with said transverse port; a plunger valve in said transverse valve chamber, free to reciprocate therein; abutments at respectively opposite ends of said transverse valve chamber, each having a lubricant



discharge port, adapted to register with one of said discharge branches; and conduits respectively extending from the opposite branches of said valve body and respectively communicating with opposite ends of the piston chamber in a double acting engine; whereby said plunger valve may be reciprocated to alternately discharge lubricant from said valve body into said conduits, by fluctuations in pressure incident to the operation of said engine, and said plug valve may be turned to close one of said discharge branches while maintaining the other in communication with said vertical branch.

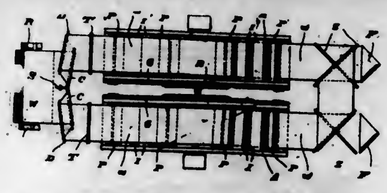
1,348,552. GROCERYMAN'S BOX. FRANK DOSCHEK, Colorado Springs, Colo. Filed Apr. 5, 1919. Serial No. 287,851. 1 Claim. (Cl. 16—101.)



A device of the class described comprising a box having a forward entrance opening, a door for the entrance opening, a bar slidably mounted within the box having a link connection at one of its ends with said door, tensioned means associated with the other end of said bar for normally holding the door in its closed position, a tensioned bell crank lever pivoted within said box adapted to engage the sliding bar to hold the same projected against the tension of the resilient means connected to said bar with the door in its open position and manually operable means for said bell crank lever to release the same from said bar to permit the bar tensioning means to operate said bar and close the door.

1,348,553. WEB-PRINTING PRESS. ARTHUR E. DOWELL, Washington, D. C. Filed Nov. 20, 1918. Serial No. 263,329. 6 Claims. (Cl. 270—5.)

1. In printing apparatus of the character specified, the combination of two rotary web printing presses arranged side by side; with means for supporting a wide roll of web adjacent one end of the presses, the axis of the web roll being parallel with the axes of the cylinders of the presses; means for slitting the web between the web roll and the presses; and means for separating the sections



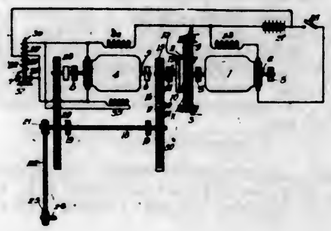
of the web while maintaining the same general direction of movement thereof away from the web roll and directing them to the printing mechanism to be printed thereby.

1,348,554. SAND-GUARD FOR IRRIGATION-DITCHES. ERNEST DRINGMAN, Paxton, Nebr. Filed May 3, 1917. Serial No. 166,195. 9 Claims. (Cl. 61—22.)



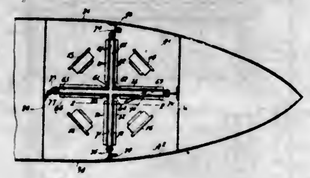
1. The combination with the head gate of an irrigation ditch, of a sand guard consisting of an inclined shelf or platform arranged in front of the head gate and extending from one end thereof to the other, said guard having its high end up stream and arranged substantially on the level with the floor or bottom of the head gate.

1,348,555. ENGINE STARTER AND GENERATOR. THOMAS R. DU BOIS, Niagara Falls, N. Y., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Mar. 4, 1915, Serial No. 11,979. Renewed Sept. 10, 1919. Serial No. 322,984. 8 Claims. (Cl. 290—36.)



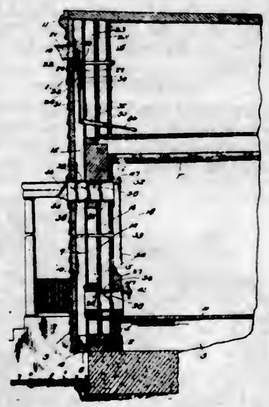
1. In an engine starter and generator, in combination, a motor and a generator having their respective armatures mounted on separate shafts and having their axes in alinement, an internal combustion engine, a counter-shaft between the axial line of the motor and generator and the axis of the engine crank shaft, power transmitting connections between the crank shaft and said counter-shaft, power transmitting connections between said counter-shaft and the generator shaft, and means whereby said engine may be driven from said motor and automatically operatively disconnected therefrom when the generator rotates at or above a predetermined speed.

1,348,556. APPARATUS FOR SUBMARINE SIGNALING. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Sept. 7, 1918. Serial No. 253,101. 6 Claims. (Cl. 181—0.5.)



4. A submarine signaling apparatus comprising a fluid tank, a plurality of signaling means located in said tank, and fixed sound screens located to insulate each signaling means from all the others, said plurality of signaling means being separated at a distance from said sound screens and the walls of said tank.

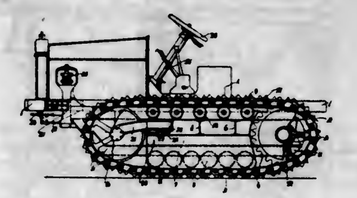
1,348,557. VENTILATING SYSTEM. WILLIAM G. FORCIER, Wollaston, Mass. Filed July 31, 1919. Serial No. 314,405. 3 Claims. (Cl. 98—27.)



1. In building construction, a wall having an outer air space constantly open to the atmosphere at its lower end and normally closed at its upper end, a plurality of dead-air spaces at the inner side of the first-mentioned air space, and upper and lower ventilators in the wall, the upper ventilator extending through the first-mentioned air space and through all the dead-air spaces and the lower ventilator extending through the dead-air spaces and opening into the first-mentioned air space.

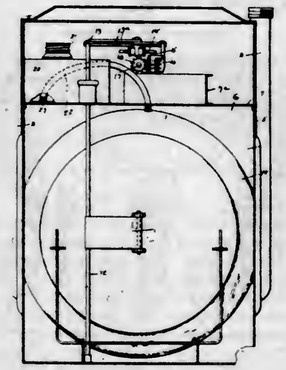
1,348,558. TRACTOR. HENRY GARNER, Moseley, JAMES PARKER GARNER, Birmingham, and WILLIAM JAMES PARKER, Moseley, England; said Parker assignor to said Henry Garner and said James Parker Garner. Filed May 15, 1918. Serial No. 234,766. 8 Claims. (Cl. 180—9.1.)

1. In a tractor the combination of a chassis frame; a pair of track frames pivoted to said chassis frame; a transversely disposed spring member pivoted to the chassis frame and having its extremities connected to the track frames; a pair of guides carried by said chassis frame; and a vertically disposed slide carried by each of said



track frames operating in said guides and being connected to said transverse spring member; for the purpose specified.

1,348,559. METER-LUBRICATOR. JOHN M. GOW and FRANK S. DAVIS, Lansing, Mich. Filed Jan. 5, 1917. Serial No. 140,861. 2 Claims. (Cl. 184—64.)

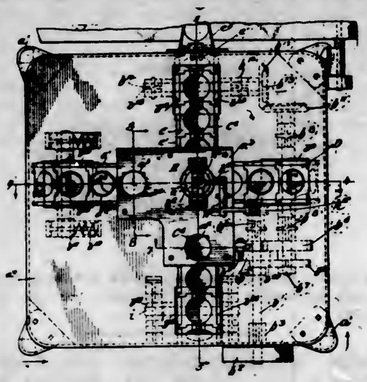


1. In combination, a gas meter having a horizontal partition providing an upper valve chamber and a lower chamber, bellows having oiled leathers or diaphragms located in said lower chamber, a hermetically sealed container located in the valve chamber, arcuate siphon tubes having their intake ends positioned in the container at points in close proximity to the bottom and one side wall thereof and curving upwardly and laterally from said points in the direction of the opposite side wall of the container and passing through said opposite side wall adjacent the top wall of the container, the tubes thence curving downwardly and forwardly and passing through said partition to position their discharge ends in said lower chamber directly above the leathers or diaphragms, and wicks filling said tubes substantially throughout the length thereof and passing beyond the discharge ends of the tubes and contacting with the leathers or diaphragms of the bellows.

1,348,560. CAN-END-LINING MACHINE. CHARLES W. GRAHAM, Crestwood, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 29, 1916. Serial No. 87,390. 22 Claims. (Cl. 113—80.)

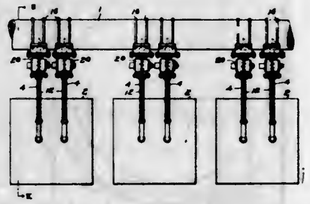
1. In a machine for applying can end liners to the flanges of shouldered can ends, for the production of interfolded hermetic seams with flanged can bodies, in combination: can end feed mechanism and can end liner feed mechanism comprising intermittently movable end-

less belt conveyers moving in horizontal planes one above the other, and having an intersecting station where a can



end and a can end liner are brought into assembling position, and means for assembling a can end and a can end liner at the said station.

1,348,561. CONTROLLING PROPORTIONS OF PULVERIZED-FUEL MIXTURE. WILBER E. HARVEY, Glenshaw, Pa. Filed Mar. 7, 1919. Serial No. 281,287. 5 Claims. (Cl. 302—59.)



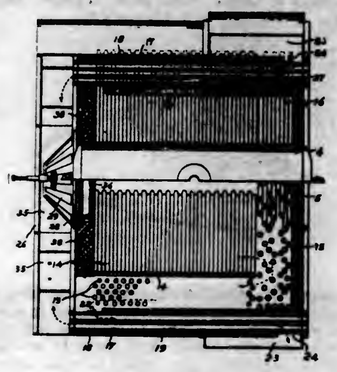
1. The combination with a main conduit for carrying a flowing stream of combustion-supporting gas having solid combustible particles suspended therein, a burner, and a branch conduit extending from said main conduit to said burner, of an orifice member for abstracting from the main conduit a portion of said stream of gas and particles and delivering said portion to said branch conduit, and means for rendering said orifice member effective to vary the relative quantities of said gas and particles abstracted from the main conduit through the branch conduit.

1,348,562. WATER-STOP. ALBERT H. HAUSER, Columbus, Ohio. Filed Sept. 19, 1919. Serial No. 324,768. 1 Claim. (Cl. 251—126.)



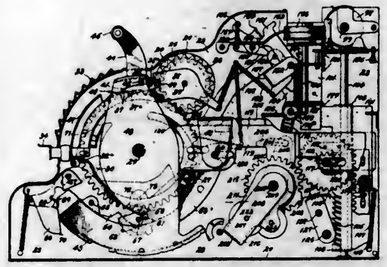
The herein described valve or stop for conduits, the same comprising a ring approximating a diagonal section of a tube and having a portion removed from its inner side and adapted to occupy the lowest point, a plate secured to a side of the upper portion of the ring diagonally opposite the cut-away portion thereof, and a leaf secured to the plate, a gate hinged to the leaf and adapted to close against a side of the ring, and a weight on the outer side of the gate.

1,348,563. OIL-BURNING BOILER. ALGERNON S. DE W. HEERSHOFF, Bristol, R. I. Filed July 13, 1917. Serial No. 180,477. 3 Claims. (Cl. 122—236.)



1. In a boiler, the combination of a shell, an upper and a lower compartment, series of inner tubes establishing communication between said compartments, the tubes of each series being in close relation for forming a combustion chamber and passageways for the products of combustion between the combustion chamber and shell, an uptake having an opening for receiving the products of combustion from said passageways of larger cross sectional area adjacent the lower portion of the boiler than at the upper portion of the boiler, and a series of separated water-tubes in the shell between the combustion chamber and uptake.

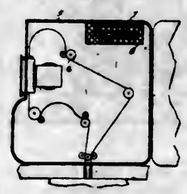
1,348,564. LISTING-ADDER. WILLIAM M. HOLLOWAY, Maywood, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 1, 1916. Serial No. 88,264. 11 Claims. (Cl. 235—60.)



1. In a multiple-order calculating machine having registering mechanism, transferring devices and printing mechanism, a forwardly extending individually oscillatable key-lever in each order adjustable in vertical planes, an oscillatable means extending laterally across and common to all the orders of the machine, pivotally supported at each side of the series of said orders and engageable with all set key levers of said orders, for effecting the prime movements of the registering mechanism during one portion of its movements, connected with the printing mechanism for actuating the latter after the said prime movements of the registering mechanism have been effected, and arranged to actuate the transferring devices during another portion of its movements; substantially as specified.

8. The combination of orders of finger key levers, accumulating mechanism which may be set by said key levers, totalising mechanism, printing mechanism including type carriers, and means for actuating the accumulating mechanism and the type carriers according to the setting of said key levers, said totalising mechanism comprising a differential gearing, an element which actuates said differential gearing and whose movement is limited by the position of the accumulating mechanism, and an element which is actuated by the differential gearing and is connected with and actuates said type carriers.

1,348,565. FIRE-EXTINGUISHER FOR MOTION-PICTURE APPARATUS. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Nov. 15, 1917. Serial No. 202,200. 3 Claims. (Cl. 169—26.)

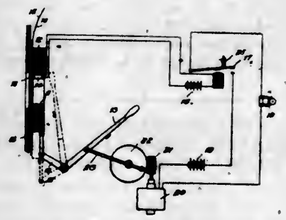


1. A container for fire extinguishing fluid made up of separable parts united, fluid-tight, by material the connecting function of which is destroyed by the relatively low heat of ordinary film combustion within a motion picture machine.

2. A container for fire extinguishing fluid made up of separable parts united, fluid-tight, by material the connecting function of which is destroyed by the relatively low heat of ordinary film combustion within a motion picture machine, said material extending, along the joints, outwardly from the body of the container, whereby it is more quickly affected by combustion.

3. The combination with a container, for fire extinguishing fluid, having discharge apertures below, of outwardly projecting closures for said apertures, a highly combustible band retaining said closures in position, and a metal netting at some distance outside the band to protect the same from contact with other bodies while permitting free access of flame thereto.

1,348,566. MOTION-PICTURE FRAMING. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Oct. 5, 1918. Serial No. 257,079. 6 Claims. (Cl. 88—17.)



1. The combination with a picture framing member of picture projecting apparatus, of devices responsive to variations of intensity of light and of signal devices controlled by said light responsive devices.

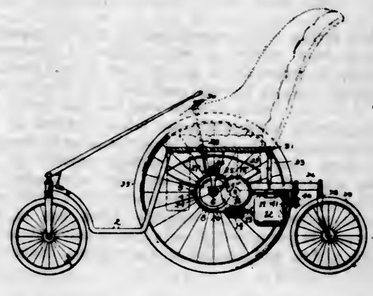
1,348,567. CLOSURE FOR SANITARY CANS. AXEL JOHNSON, Oakland, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Feb. 25, 1916. Serial No. 80,487. 2 Claims. (Cl. 220—81.)

1. A can end for the closure of sanitary cans, having an outwardly projecting flange formed with a curled edge, for the seaming of the can end to the flanged end of a can body, and formed with a shoulder for entering the can body and engaging the interior walls thereof, and a ring liner loose on the under side of said outwardly projecting flange of the can end having its inner edge separated by a clearance space from the said shoulder of the can end,



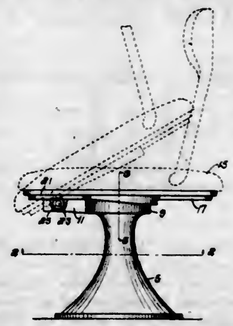
said loose liner being movably held under the said curled edge of the can end, whereby portions of the liner are prevented from being squeezed between the can end and the interior vertical wall of the can body or forced into the interior of the can.

1,348,568. ELECTRICALLY-PROPELLED VEHICLE. DUSTON KEMBLE, Cortland, Ohio. Filed Mar. 10, 1919. Serial No. 281,827. 12 Claims. (Cl. 180—21.)



1. In an electrically propelled vehicle, an axle, a pair of speed changing gears loosely mounted upon said axle, a clutch member splined to slide upon said axle to engage either gear, a motor and speed-reducing gears adapted to operate said speed-changing gears, a frame journaled on said axle supporting said motor and housing said gears, and means internally of said housing having a controlling device externally of said housing adapted to shift said clutch member, said motor and clutch member being arranged on a central line of said frame and vehicle and said gears being arranged in balanced relation on opposite sides of said central line.

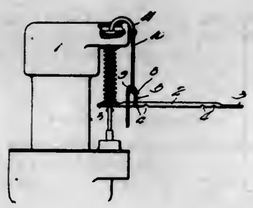
1,348,569. ADJUSTABLE SUPPORT. GEORGE L. KNIGHTS, Amesbury, Mass., assignor to Hodge & Graves Company, Amesbury, Mass., a Corporation of Massachusetts. Filed Dec. 26, 1917. Serial No. 208,762. 6 Claims. (Cl. 155—10.)



1. In a device of the class described, a base, a support swiveled thereon and comprising a split collar having

arms, a bottom member hinged to said arms and having associated therewith a cam to press said arms and clamp the collar to the base.

1,348,570. VALVE-SPRING LIFTER. PAUL ALBERT KNIGHT, Baltimore, Md. Filed Sept. 18, 1919. Serial No. 324,460. 1 Claim. (Cl. 29—86.3.)

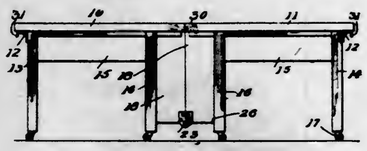


A valve spring lifter comprising an engine engaging member, a chain carried by said member, a triangular link detachably connected to the free end of said chain, a flat metal bar slidable through said link, the intermediate portion of the bar being straight and the ends being enlarged to provide heads which are laterally offset in opposite directions and are slotted to permit them to straddle a valve stem, said bar being further provided in its underside adjacent the offset ends with a plurality of longitudinally spaced transverse grooves to permit said link to be seated therein, whereby when one of the slotted heads is permitted to straddle a valve stem beneath the spring and the other end pushed down, the spring will be lifted.

1,348,571. MANUFACTURE OF FLOOR-COVERING AS A SUBSTITUTE FOR LINOLEUM. JOHANNES HENDRIKUS PHILIPPUS LIGTERINK, Utrecht, Netherlands. Filed Nov. 23, 1918. Serial No. 263,922. 1 Claim. (Cl. 91—68.)

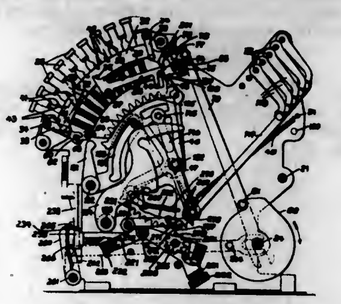
An improved method of manufacturing a floor covering as a substitute for linoleum consisting in adding a fundamental color for the finished product to the paper pulp, in rolling the said paper pulp to the thickness of common linoleum, in treating the surfaces of said rolled product with liquid consisting of equal quantities of boiled and unboiled linseed oil, drying the same, coating both sides of said product with linseed oil, and applying a pattern to one surface of the product.

1,348,572. CONVERTIBLE TABLE-BED. JESSE M. MCGHEE, Estancia, N. Mex. Filed Oct. 30, 1919. Serial No. 334,392. 8 Claims. (Cl. 5—17.)



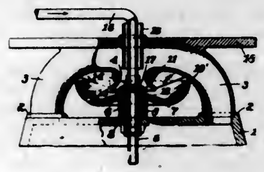
1. A convertible table bed comprising end sections, hinged sections connecting the end sections, said end and hinged sections having compartments adapted to receive and house bedding, and leaves carried by the end sections adapted to be raised when the latter are extended to expose the bedding and adapted to be lowered to cover the bedding when said sections are brought together and to form the top of the table.

1,348,573. REGISTERING-MACHINE. HAAKON A. MARTIN, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Filed June 26, 1915. Serial No. 36,467. 102 Claims. (Cl. 235—3.)



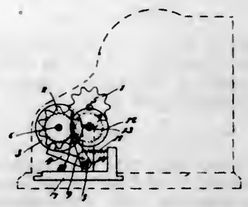
65. In a machine of the class described, the combination with a rotatable totalizer element, of a main driving mechanism constructed to be given a variable period of movement, and means whereby the rotatable element controls the length of period of movement of the driving mechanism.

1,348,574. BURNER. SAMUEL WILSON MORROW, Baltimore, Md. Filed May 12, 1919. Serial No. 296,438. 2 Claims. (Cl. 158—91.)



1. In combination in a burner, a conical distributer having an upwardly directed oil conduit at its center, an overlying conical spreader forming a narrow space between itself and the conical distributer for the discharge of the oil laterally in a thin sheet, air supply means having a downwardly directed flared discharge portion encircling the upper portion of the spreader, the wall of the said flared portion being disposed in proximity and at an acute angle to the distributer for causing a current of air to impinge upon the thin film of oil as it issues from beneath the spreader.

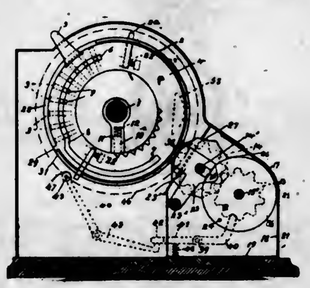
1,348,575. CALCULATING-MACHINE. VALENTIN JAKOB ODHNER, Stockholm, Sweden. Filed Apr. 24, 1919. Serial No. 292,459. 1 Claim. (Cl. 235—131.)



In a calculating machine the combination with the indicating disks, a shaft carrying the said disks and adapted to reset the same to zero, catches locking the said indicating disks in adjusted position, and a cam disk,

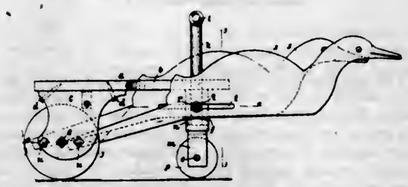
of a shaft carrying the said cam disk independently of other parts of the calculating machine, a motion transmitting device provided between the resetting shaft and the cam disk, an arm coöperating with the cam disk, and a common shaft carrying the said arm and the catches fixed to the said common shaft, substantially as described and for the purpose set forth.

1,348,576. CALCULATING-MACHINE. VALENTIN JAKOB ODHNER, Stockholm, Sweden. Filed Apr. 26, 1919. Serial No. 292,981. 3 Claims. (Cl. 235—79.)



1. In a calculating machine the combination with calculating wheels, pins provided on the said calculating wheels, means for shifting the said pins, wheels engaged by said pins and brought into operative position and rotated by the pins during the rotation of the calculating wheels, indicating disks rotated by the said engaged wheels, deflectable "ten" pins, "hundred" pins, etc., on the said calculating wheels, star-wheels coöperating with the calculating wheels respectively and locking the indicating disks, except at such unit pins as have been brought in operative position, of a movable piece at the "ten" pin, etc., which piece normally locks the said star-wheel, while the "ten" pin, etc., passes the same and means for moving the said piece out of locking position, as the "ten" pin is deflected into operative position.

1,348,577. TOY VEHICLE. JOHN W. OLSSON, York, Pa. Filed Nov. 19, 1919. Serial No. 339,127. 4 Claims. (Cl. 208—165.)

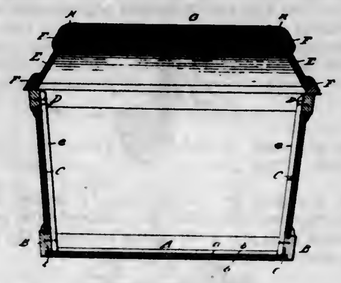


1. A frame including a substantially horizontal plate forming a seat at its rear portion and having its forward portion a substantially central forward extension of the seat and narrower than the same, rigid means depending from the seat part of the plate, a rigid substantially inverted T-shaped member depending from the extension, the arms of the T extending beyond the sides of the extension and forming foot-rests, in combination with wheel-supports arranged in said rigid depending means and member.

1,348,578. FERTILIZER. JAMES RIDDICK PARTINGTON and LESLIE HENRY PARKES, London, England. Filed Dec. 12, 1918. Serial No. 266,466. 5 Claims. (Cl. 71—9.)

2. A fertilizer comprising ammonium nitrate in the form of a dry powder and bone meal.

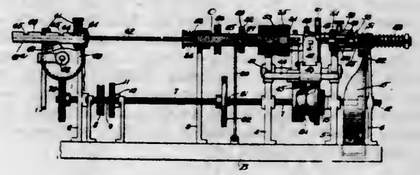
1,348,579. BURIAL-CASKET. ELISHA A. POST and EMIL F. SCHMITZ, Allegan, Mich. Filed May 17, 1919. Serial No. 297,737. 6 Claims. (Cl. 27—3.)



5. In a burial casket, the combination of top and bottom margin moldings rabbeted along their edges, unitary panels formed of plastic material having their edges fitted into the rabbits formed along the edges of said moldings to inclose and protect the same, and reinforcing battens arranged transversely of the bottom panels and having their ends anchored in the bottom moldings, as and for the purpose set forth.

6. In a burial casket, top and bottom margin moldings rabbeted along their edges, side panels formed of plastic material having their edges inclosed and protected by being fitted into the rabbets formed along the edges of said moldings, vertically-arranged battens disposed along the side panels and fastened to the inner faces of said moldings, handles, and securing means for said handles extending through the side panels and anchored in the said battens, as and for the purpose set forth.

1,348,580. CLAY-TURNING MACHINE. LILLIAN L. RANDALL and EDWARD A. FRIES, Boston, Mass. Filed June 12, 1916. Serial No. 103,081. 13 Claims. (Cl. 144—46.)



1. A machine for turning plastic material comprising a tube adapted to have an elongate rod of plastic material fed therethrough, the tube being arranged closely to confine the rod of plastic material throughout the entire length of the rod, means at the forward end of the tube yieldingly to grip said rod throughout an extensive area, a tool in operative relationship to the end of said rod projecting from the forward end of said tube, and means for producing relative angular motion between the tube and the tool to cause the tool to operate upon the rod.

13. The method of forming tubular articles from plastic material comprising rotating a blank of the plastic material, boring the blank along its axis of rotation, and turning the exterior of the blank while the boring tool is extended thereinto, the plastic blank being supported by the boring tool while being turned.

1,348,581. SHOCK-ABSORBER. JESSE T. RICHARDS, Warrington, Fla. Filed Nov. 19, 1919. Serial No. 339,145. 3 Claims. (Cl. 267—60.)

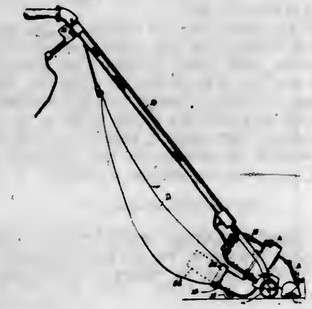
1. In a vehicle shock absorber, a bracket having an outstanding part at one end thereof, a clip at the opposite

end of the bracket for engagement with the frame of a vehicle, parallel hanger straps formed at the forward end of the outstanding part and extending obliquely toward the clip, the ends of the parallel strap terminating in clips



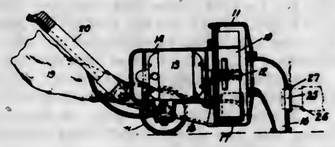
adapted to engage the vehicle frame, a member slidably engaged with the outstanding part adapted to be attached to a vehicle axle, and a coil spring encircling the slidable member and urging the same upwardly.

1,348,582. SUCTION-CLEANER. WILLIAM W. ROSENFIELD, New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Filed May 24, 1915. Serial No. 29,968. 15 Claims. (Cl. 15—60.)



2. The combination with a suction cleaning nozzle, of a thread-disturbing member mounted within the mouth of the nozzle and adjustable into and out of operative position, said member projecting slightly beyond the plane of the nozzle lips when in operative position, and means for holding the carpet away from the nozzle lips mounted to move into and out of operative position with the thread-disturbing member.

1,348,583. SUCTION-CLEANER. WILLIAM W. ROSENFIELD, New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Original application filed July 1, 1912, Serial No. 706,843. Divided and this application filed August 13, 1915. Serial No. 45,288. 4 Claims. (Cl. 15—60.)



1. A self-contained suction cleaner having a nozzle casing extending forwardly and downwardly from the front wall of the fan casing to provide an in-take passage communicating directly with the fan chamber through a central opening in the front wall of the fan casing concentric with the fan axis, said nozzle casing being extended laterally at its lower end to form a floor cleaning nozzle having an elongated in-take opening, and said nozzle casing having a normally closed in-take opening in the wall above said elongated in-take opening for connecting a tube leading from a cleaning tool with the in-take passage through the nozzle casing.

1,348,584. SUCTION CLEANING-NOZZLE. WILLIAM W. ROSENFIELD, New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Filed July 21, 1916. Serial No. 110,476. 20 Claims. (Cl. 1560.)



20. The combination with a suction cleaning nozzle, of a frame rotatably mounted within the nozzle and having a brush and a notched side bar adapted to project slightly beyond the plane of the nozzle lips when in operative position.

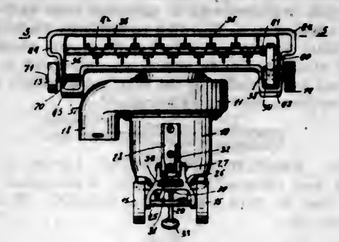
1,348,585. SUCTION-CLEANER. WILLIAM W. ROSENFIELD, New York, N. Y. Filed Sept. 19, 1916. Serial No. 121,077. 5 Claims. (Cl. 15—60.)

1. The combination with a suction cleaning nozzle having lips which lie all in the same plane, of a rigid, non-rotatable thread-disturbing member within the nozzle adjacent one of its longitudinal edges, means supporting said member whereby it may have a limited amount of vertical movement, means operable from outside the nozzle for forcing said member to its lowermost position and rigidly holding it there, means located in the nozzle which is movable with said member to a position where it projects slightly beyond the plane of the nozzle lips and serves to hold the fabric being cleaned from sealing engagement with one lip of the cleaner nozzle, rollers for supporting said nozzle in spaced relation to the surface to be cleaned, and means for adjusting said rollers to bring the nozzle toward and away from the surface to be cleaned.

1,348,586. SUCTION-CLEANER. WILLIAM W. ROSENFIELD, New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Filed Oct. 5, 1917. Serial No. 194,851. 2 Claims. (Cl. 15—60.)

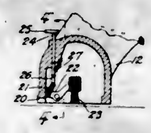
1. The combination of a suction cleaner nozzle provided with rearwardly projecting hollow extensions adjacent to its two ends, a rotary disturbing member in said nozzle, and

a support for said member comprising a frame pivoted in said extensions and extending forwardly into said nozzle,



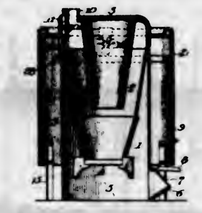
said rotary member being journaled at its ends in said frame and said frame being adapted to swing on its pivots to bring said rotary member outside the nozzle.

1,348,587. SUCTION CLEANING-NOZZLE. WILLIAM W. ROSENFIELD, White Plains, N. Y., assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Filed Aug. 13, 1915, Serial No. 45,289. Renewed Dec. 24, 1919. Serial No. 347,198. 8 Claims. (Cl. 15—60.)



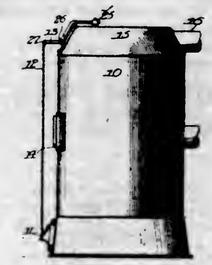
1. The combination with a suction cleaning nozzle having a lip formed to provide a passage for the flow of a surface cleaning current of air between the nozzle lip and the surface to be cleaned, of means movable into and out of operative position formed to close said passage when in operative position, the lips of said nozzle and said means being arranged to make continuous contact with the surface to be cleaned when said means is in operative position, and a thread disturbing member movable into and out of operative position within the nozzle.

1,348,588. STOVE. ERWIN W. SEEGER, Milwaukee, Wis., assignor to Seeger Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 15, 1917. Serial No. 142,417. 4 Claims. (Cl. 236—10.)



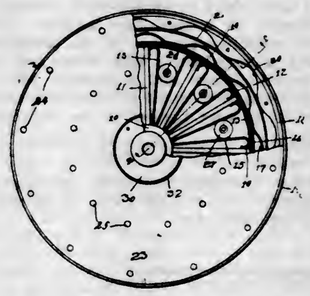
4. A device of the character described comprising a fuel burning stove having a grate, a shell surrounding said stove forming a clear channel between said shell and the outer wall of said stove extending substantially throughout the full vertical length of said stove, said channel being substantially fully open at the bottom and at the top to thereby afford an unobstructed passage for an air current upwardly through said channel to thereby heat the air current passing through said channel and cause circulation of the air in the compartment where said device is placed, regulating means for said stove, thermal means within the air current in said channel and responsive to the temperature of the air in said channel for controlling said regulating means, and means for adjusting the relationship between said thermal means and said regulating means, said thermal means including an air chamber substantially surrounding the stove and an expansible and retractable pneumatic device communicating with the chamber and adapted to actuate the regulator.

1,348,589. FURNACE-REGULATOR. ERWIN W. SEEGER, Milwaukee, Wis. Filed June 28, 1917. Serial No. 177,496. 2 Claims. (Cl. 236—10.)



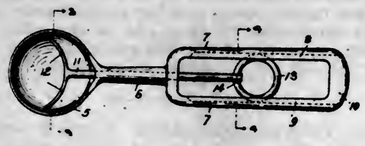
1. A regulating system for hot air furnaces comprising a furnace, a fire control door for the furnace, a hot air drum surrounding the furnace, a corrugated air chamber mounted upon and within the drum, a bellows mounted interiorly of the chamber and having one wall rigidly secured to the drum, a lever operatively connected to the door, and a rod connecting the free wall of said bellows to said lever, the interior of the bellows being open to atmospheric pressure.

1,348,590. SPRING-WHEEL. DAVID J. SHEA, Marianna, Ark. Filed Nov. 12, 1919. Serial No. 337,538. 2 Claims. (Cl. 152—28†)



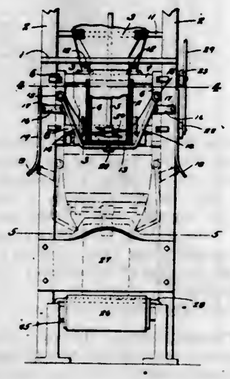
1. In a spring wheel, a hub, spring spokes extending from the hub radially and having inturned outer ends, spacing members between the main portions of the spring spokes and including rollers mounted to turn therebetween, spacing means between the inturned portions of the spokes, an inner rim, an outer rim, corrugated members between said rims, resilient means therebetween and including resilient bands, a tire on the outer rim, a plurality of plates at the sides of the wheel, and means for connecting said plates against lateral displacement, certain thereof serving as mountings for the rollers.

1,348,591. MEASURING SPOON OR DIPPER. ACALLIOUS ELBERT SHUTTERLY, Indianapolis, Ind. Filed May 17, 1919. Serial No. 297,740. 5 Claims. (Cl. 73—62.)



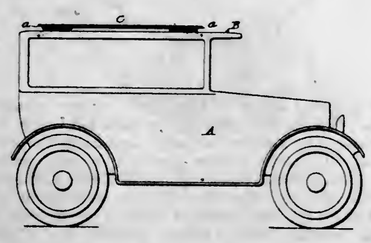
1. A device of the character described, comprising a bowl, a handle therefor provided with a longitudinal hole, and a rod reciprocable but non-rotatable in said hole and provided at its outer end with striking-off arms projecting laterally over the bowl.

1,348,592. BAG-FILLING MACHINE. CHARLES F. SPARKS, Alton, Ill. Filed Oct. 24, 1919. Serial No. 332,963. 10 Claims. (Cl. 226—58.)



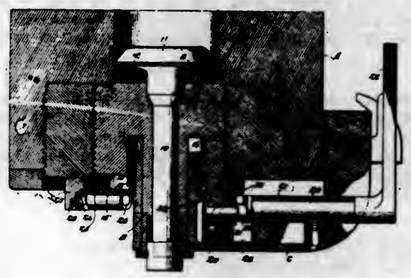
1. The combination with a bag filling machine, having a discharge spout and a packing member arranged for operation therein, of a vertically movable framework mounted for operation adjacent to the discharge spout of the filling machine, and a drop bottom bag receiving platform associated with said framework, which framework and platform are adapted to move downward by the pressure of the packing member on the material packed into the bag.

1,348,593. AUTOMOBILE-TOP. EDWARD SPIEGEL, Brooklyn, N. Y. Filed Apr. 6, 1918. Serial No. 226,971. 1 Claim. (Cl. 296—137.)



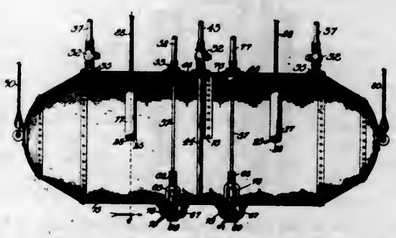
In an automobile body a two part top, one part forming a central rectangular portion, the other part comprising a surrounding frame, the meeting points of said central portion and surrounding frame being rabbeted and and adapted to fit snugly together, each corner of the central portion provided with a confining slide and carrier block *c*, adapted to be operated to adjusted positions and held in place by a screw with handle *s*, said block being attached at one end to an arm E, the other end of which is attached to the frame of the roof, substantially as and for the purposes shown and described.

1,348,594. BREECH MECHANISM. HENRY J. STAMBAUGH and GEORGE M. MCCANN, Washington, D. C. Filed Dec. 8, 1919. Serial No. 343,295. 33 Claims. (Cl. 89—25.)



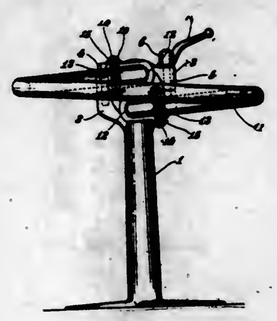
11. In a gun, the combination of a movable carrier, a breech plug mounted on the carrier for both rotatable and longitudinal movements with respect to the carrier, a rotatable member on the carrier operatively connected with the plug to rotate the latter, a cam device operated during closing movement of the carrier to rotate the member and thereby rotate the plug, and a second cam device operating during rotation of the plug to move the latter longitudinally with respect to the carrier.

1,348,595. APPARATUS FOR RAISING SUNKEN VESSELS. FERNANDO STAUD Y XIMENEZ, deceased, late of New York, N. Y., by Francisco Javier Salas, New York, N. Y., administrator of said Fernando Staud y Ximenes, deceased; Alejandro Berea administrator de-bonis non, vice Francisco Javier Salas, resigned. Filed June 28, 1919. Serial No. 307,409. 10 Claims. (Cl. 114—53.)



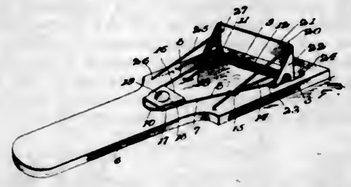
1. A submergible pontoon comprising a shell equipped with a valve-device having an upper air-pressure inlet, a valve controlling said inlet, a lower water-valve and a stem connecting said valves and maintaining them in consant operative position thereon relative to the air and water ports they respectively control.

1,348,596. TIRE-MAKING DEVICE. EDWARD STERNS, St. Louis, Mo., assignor, by mesne assignments, to Surety Tire & Rubber Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 4, 1917. Serial No. 189,691. 7 Claims. (Cl. 154—9.)



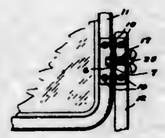
1. A tire making device comprising, a base, a split tire mandrel, and means for detachably connecting said mandrel with said base adapted to permit endwise removal of the tire from said mandrel.

1,348,597. GAME APPARATUS. CLARENCE R. STEWART, Spokane, Wash. Filed Sept. 27, 1919. Serial No. 326,719. 5 Claims. (Cl. 124—1.)



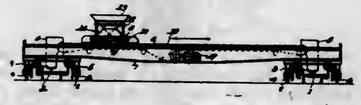
1. A toy catapult including a base, a projectile throwing member having a transverse bearing arm and a pair of arms, means to rotatably connect said transverse arm to said base, a spring for tensioning the said projectile throwing member, and a projectile supporting plate having its end portions formed with flanges secured about the rear end portions of said arms, said projectile supporting plate being provided with a centrally arranged projectile receiving recess.

1,348,598. HINGE. ARTHUR J. STRETCH, Seattle, Wash. Filed Sept. 20, 1919. Serial No. 325,251. 1 Claim. (Cl. 296—92.)



A hinge of the class described, comprising two concavo-convex plates, the concave sides of said plates each having an annular flattened friction surface and said plates being adapted to be disposed side by side with the concave surfaces turned toward each other, integral base members arranged at right angles to said plates and protruding from the convex sides thereof, a friction disk interposed between said plates and arranged to be engaged by the flattened friction surfaces of said plates, a pivot bolt extending transversely through said plates, a flanged sleeve on said pivot bolt to serve as a bearing for the plate opposite the head of said bolt, a washer on said bolt, means for preventing said washer from turning, a helical compression spring interposed between said washer and the side of one of said plates, and a nut arranged to screw against said washer.

1,348,599. RECLAIMING AND CONVEYING APPARATUS. FRANCIS LEE STUART, Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Filed Dec. 5, 1917. Serial No. 205,607. 1 Claim. (Cl. 193—4.)



Apparatus for reclaiming and conveying material, comprising two parallel main conveyer belts, trucks mounted to move parallel with said belts, motors for driving the trucks, hoppers carried by the trucks and delivering to the main conveyer belts, a reclaimer frame supported by said trucks, a conveyer belt mounted in said frame and delivehing to either of said hoppers, a motor for driving said belt in either direction, a track on the reclaimer frame, a truck supported thereon, a motor for driving said truck, and a hopper carried by said truck and delivering to the conveyer belt of said reclaimer frame.

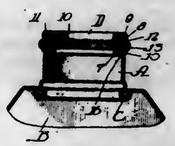
1,348,600. EMBROIDERING DEVICE. MANLIO TERRAGNI and TEOBALDO BOLDIZZONI, New York, N. Y. Filed Aug. 30, 1919. Serial No. 320,888. 6 Claims. (Cl. 112—80.)



1. An embroidering device comprising a tubular body, a pair of legs, a presser foot connected to the body by said legs, a plunger movable in said body, a holder secured to one end of the plunger, a thread-actuating element affixed to the holder, said legs having inclined rear edges to be engaged by the holder and effect a feeding movement of the device to enable said element to make a stitch, a member to make variable portions of said edges ineffective to regulate the length of stitch made by said element, and a slidable head at the opposite end of the plunger, said head having a passage and the plunger having openings to register with the passage on the forward stroke of said element to permit thread to be drawn therethrough, said passage and said openings being out of registry on the return stroke of the element to bind the thread against movement.

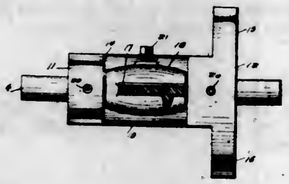
2. In an embroidering device, a body having legs with inclined edges, a holder, a thread-actuating element, said holder having lateral projections to engage said edges to effect a feeding movement of the device, a locking cam to secure the thread-actuating element thereto, and a thread guide thereon.

1,348,601. CONTAINER-CLOSURE. SWAN N. TEVANDER, Maywood, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 18, 1916. Serial No. 79,040. 7 Claims. (Cl. 220—27.)



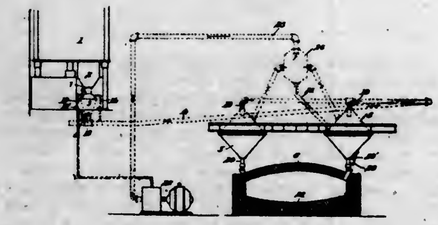
1. A container having a nozzle provided with an inwardly extending flattened head, a frangible seal seated on said head, the upper edge of said nozzle being curled down thereupon to secure it in place, and a slip cover having a depressed central portion bearing on said seal and having a flange engaging the exterior of the nozzle frictionally and removably.

1,348,602. ROCKER-STUD BEARING. WILLIAM T. THACKER, Greenville, S. C. Filed Oct. 3, 1919. Serial No. 328,192. 1 Claim. (Cl. 64—10.)



A sword shaft bearing comprising a unitary body provided at its ends with upwardly extending lugs adapted to receive a shaft for rocking movement, the portion of the body lying between the lugs being provided with an upper concaved surface forming an oil retaining pan underneath the lay sword, the body being provided at each end of one of the lugs thereof with wings adapted to be used for attaching the body to the frame of a loom.

1,348,603. ORE-FEEDING APPARATUS FOR FURNACES. LEONARD S. THILL, Great Falls, Mont. Filed Dec. 4, 1916. Serial No. 135,029. 2 Claims. (Cl. 302—22.)



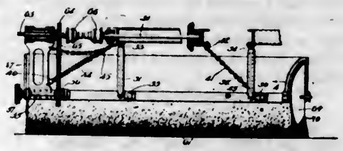
1. In apparatus for delivering ore from a roaster to a furnace, the combination of a chamber for receiving roasted ore from the roaster, a hopper connected to the furnace, a conduit between the chamber and the hopper, means for charging the chamber independently of the conduit, a pneumatic medium for passing the charge through the conduit into the hopper, means for separating the pneumatic medium from the charge in the hopper, means for returning the pneumatic medium for passing another charge through the conduit, and means for discharging the hopper independently of the said conduit and said medium.

1,348,604. PRESSURE THROTTLE CONTROL. FRANK M. TITUS, Bradford, Pa., assignor to The United States and Cuban Allied Works Engineering Corporation, a Corporation of Delaware. Filed July 1, 1919. Serial No. 307,965. 1 Claim. (Cl. 103—92.)



A device of the character described, comprising a housing having a fluid passage extending therethrough, a valve passage extending therethrough having an open end of a diameter equal to the diameter of the passage, a valve in the last mentioned passage and controlling the fluid passage, a cap closing the open end of the valve passage, the valve having a stem passing loosely through the cap and extending beyond it, the extended end of the valve stem having an adjustable screw-nut, an expanding spiral spring between the cap and the nut and holding the cap in position and the valve stem outward, a cylinder supported beyond the valve stem, and a piston in the cylinder extending therefrom and engaging the end of the valve stem, the cylinder having a pressure communication, the parts operating as and for the purpose described.

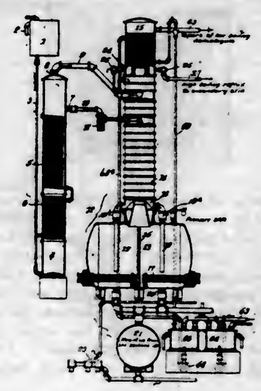
1,348,605. STREET-SWEEPER. DANIEL M. TODD, Elgin, Ill., assignor to Elgin Street Sweeper Co., a Copartnership consisting of said Daniel M. Todd, James Todd, and Charles A. Whiting, Elgin, Ill. Filed Feb. 5, 1919. Serial No. 275,135. 5 Claims. (Cl. 15—17.)



1. In a street sweeper, the combination with a wheeled carriage, of means for driving the same along the pavement, a sweeping brush, a frame wherein said brush is journaled, means for suspending such frame from the carriage to permit oscillation of the frame lengthwise of the roller, a spring tending to move the frame sidewise to carry the sweeping roller toward the curb, means for limiting such movement, and means for driving the roller for sweeping purposes in any lateral position of the frame with respect to the carriage, substantially as described.

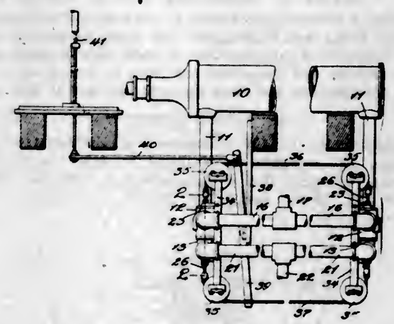
1,348,606. RECOVERY OF CRUDE PRODUCTS FROM BENZOL LIGHT OILS. FREDERICK TSCHUDY, Fairfield, Ala. Filed July 5, 1917. Serial No. 178,611. 1 Claim. (Cl. 196—25.)

The process of recovering crude products from benzol light oils which consists in continuously distilling the mass in a primary still at the highest required temperature to drive off all the vapors of the low boiling homologues and fractionating the vapors therefrom and redistilling in another still the high boiling constituents of the vapor that are liquefied by such fractionating and treating



the vapors of the lower boiling homologues that are uncondensed by such fractionating directly by dephlegmation in successive stages to recover the desired products.

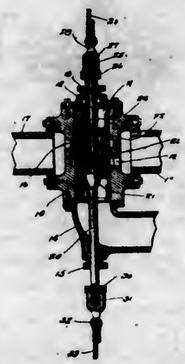
1,348,607. STEAM-FEED-VALVE CONTROL MECHANISM. DANIEL VANZILE, Vredenburgh, Ala. Filed Mar. 24, 1919. Serial No. 284,713. 1 Claim. (Cl. 121—45.)



In combination with a steam feed cylinder, pipes connected to the ends thereof, valve housings connected to said pipes, a steam supply pipe connected to both valve housings, exhaust pipes leading from said housings, each housing being provided with a valve chamber, a valve stem arranged for operation in each housing, a valve carried by each stem for controlling the passage of steam through the valve housing, cables connecting the adjacent ends of both valve stems, pulleys over which said cables are adapted to pass, a lever fulcrumed intermediate its ends, said ends being connected to an adjacent cable, an operating lever spaced apart from the first-mentioned lever, and a rod connecting the lower end of the operating lever with the upper end of the first-mentioned lever.

1,348,608. STEAM-FEED VALVE. DANIEL VANZILE, Vredenburgh, Ala. Filed May 28, 1919. Serial No. 300,358. 1 Claim. (Cl. 121—45.)

In a valve of the class described, a housing provided with ports and a valve chamber, a valve arranged for operation within said valve chamber for communicating with said ports, a valve stem passing through said valve and having bearings in the upper and lower portions of the housing, the ends of the stem being screw-threaded, a shoulder on said valve stem against which the valve engages, a sleeve on the upper portion of the valve stem,



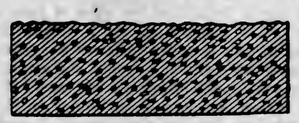
which sleeve bears against the valve and is arranged to slide through the bearing in the upper portion of the housing, a nut for locking said sleeve and valve upon the stem, and a nut provided with an eye or loop on each end of the stem to which may be secured operating cables.

1,348,609. ALARM FOR MOTION-PICTURE-FILM REELS. MOSES F. WALKER, Cadiz, Ohio. Original application filed Mar. 14, 1918, Serial No. 222,436. Divided and this application filed Sept. 25, 1918. Serial No. 255,718. 6 Claims. (Cl. 242—57.)



1. In a film reel, a bell carried by said reel, a striker element for coaction therewith, and means for actuating the striker element, the striker element being arranged to be actuated automatically when all but a predetermined length of the film has been unwound from the reel.

1,348,610. CONCRETE FLOOR. GEORGE C. WEBB and THOMAS T. POTTENGER, Pittsburgh, Pa. Filed Mar. 2, 1917. Serial No. 151,879. 1 Claim. (Cl. 94—22.)



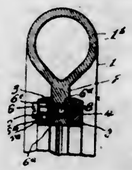
The method of forming a wearing surface for concrete floors which consists in grinding the surface of the floor first in the presence of abrasive materials and second in the presense of a grout of cement and water, for the purpose described.

1,348,611. MACHINE FOR BURNING IN BEARINGS AND LIMBERING UP MOTORS. ADDISON O. WHITE, High Point, N. C. Filed Oct. 8, 1919. Serial No. 329,356. 9 Claims. (Cl. 29—1.)



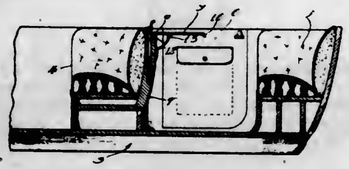
1. An apparatus of the character described, including a support, a main shaft journaled on the support, and having a driven pulley intermediate its ends, fly wheels adjacent to the ends of the main shaft, a pair of extension shafts co-axial with, and at opposite ends of, the main shaft, clutch members carried by the extension shafts and movable into and out of engagement with the said fly wheels, and crank shaft engaging means carried by the said extension shafts.

1,348,612. SEPARABLE CORE. GLENN HARLAN WILLIS, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 17, 1920. Serial No. 351,985. 9 Claims. (Cl. 18—45.)



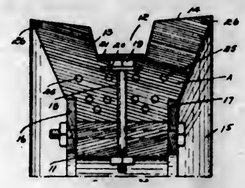
1. A device of the character described comprising a plurality of arc-shaped sections adapted to abut against each other to form a separable core or mandrel, a locking ring adapted to overlie the inner portions of said sections, and headed members carried by said inner portions, said ring having elongated openings providing enlarged portions to receive said headed members and narrower portions to engage beneath the heads on shifting the ring circumferentially.

1,348,613. TONNEAU-TABLE FOR AUTOMOBILES AND THE LIKE. FRANK M. WILLS, Elgin, Ill. Filed Mar. 29, 1920. Serial No. 369,547. 4 Claims. (Cl. 45—51.)



3. The combination with an automobile body having a front seat with a vertical back, there being a vertically extending slotted opening in the back portion of said seat, and having a horizontally extending robe rail on the back face of the upper portion of the back of said seat, of a sheet metal table adapted to work within the slotted opening and having a width substantially equal to the depth of the slotted opening, a hooked portion on the inner edge of the table, and means on the back of the seat adapted to engage said hooked portion when the table is raised into working position, the robe rail and said means being located at substantially the same elevation, whereby when the table is raised into the working position its inner edge will coöperate with said means, and its under face will rest upon and be supported by the robe rail, substantially as described.

1,348,614. TIRE. LEANDER W. WOOD, Fontanelle, Iowa. Filed Sept. 15, 1919. Serial No. 323,980. 2 Claims. (Cl. 152—1.)



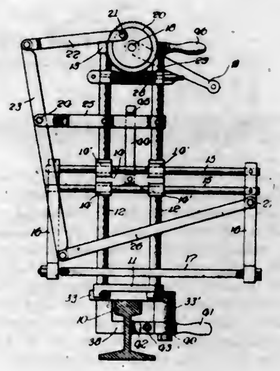
1. In a device of the class described, an annular resilient tire designed to fit on a wheel rim, said tire being broader at its outer tread portion than at its portion adapted to fit the rim, said tire having a circumferential, central, annular, external groove, the walls of said groove being inclined from the perpendicular, the groove being narrower at its bottom than at its outer portion, the tread portion of said tire being inclined from the edges of said groove laterally and radially outwardly, and a flat reinforcing band received in said groove, said band being of resilient material.

1,348,615. METHOD OF MANUFACTURING GROMETS. WILLIAM A. YOUNG, New York, N. Y. Filed May 29, 1919. Serial No. 300,568. 4 Claims. (Cl. 28—5.)



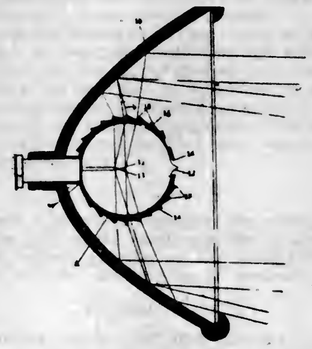
4. A method of constructing gromets consisting in winding a strand upon a form in parallel convolutions, to form a ring; then rolling said ring about its annular axis for wrapping a continuation of said strand about said convolutions and transverse the same to completely cover said convolutions and form the outer surface of said ring.

1,348,616. RAIL-SAW. CLARENCE C. ZIMMERMAN, Chicago, Ill., assignor to National Surface Guard Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 19, 1919. Serial No. 277,981. 6 Claims. (Cl. 29—73.)



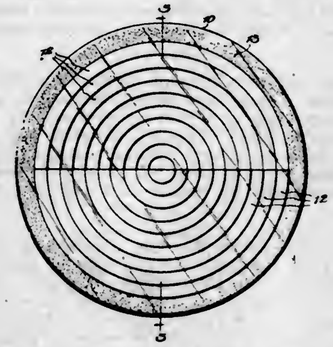
1. In a rail saw, the combination with a frame comprising a base member, two parallel uprights rising from said base member, and a cross-connecting member rigidly uniting the upper ends of said uprights, of a carriage mounted to slide on said uprights, a saw reciprocably mounted on said carriage, a driving shaft journaled in the cross-connecting member of said frame, and power-transmitting connections between said driving-shaft and said saw.

1,348,617. ELECTRIC HEADLIGHT. WILLIAM H. ZORGER, Champaign, Ill. Continuation in part of application Serial No. 169,824, filed May 21, 1917. This application filed June 29, 1918. Serial No. 242,536. 4 Claims. (Cl. 240—48.6.)



3. In a headlight, the combination of a reflecting surface having a center focus, a source of illumination, and means interposed between the source of illumination and the reflecting surface to produce two downwardly directed equal half cones of light when the source of light is in center focus, and to produce an enlarged half cone of light by one half of the reflecting surface and a "spot light" effect by the other half of the reflector surface when the source of light is forward or in rear of center focus.

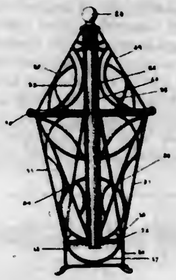
1,348,618. LENS FOR AUTOMOBILES. WILLIAM H. ZORGER, Champaign, Ill. Filed Sept. 24, 1918. Serial No. 255,453. 7 Claims. (Cl. 240—48.4.)



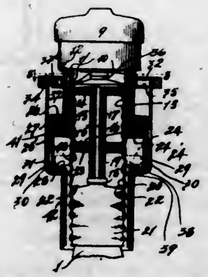
1. A lens for headlights comprising a disk having its entire light emitting area provided with two series of semi-annular elements arranged concentric with a common center, and having faces parallel throughout the entire series and inclined to the plane of the body of the disk, for the purpose described.

1,348,619. HALL UTENSIL. ALFONS ZYCKI, Baltimore, Md. Filed June 18, 1919. Serial No. 305,047. 2 Claims. (Cl. 45—33.)

1. In a device of the class described, the combination with a cylindrical base having imperforate walls, and means for supporting said base, of a perforate plate removably engaged in the upper portion of said base, a pan disposed therebelow, means for supporting said pan within said base, a rod removably engageable within said plate, a tube surrounding said rod, spring actuated means for holding said spring rod in a raised position, and a plurality of brace elements engaged with said tube, said brace elements being engageable with the marginal edge of said base.

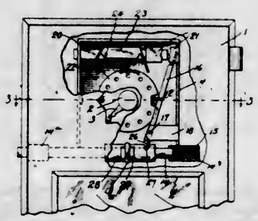


1,348,620. PROTECTIVE SOCKET. SAMUEL L. ADELSON, New York, N. Y. Filed May 9, 1919. Serial No. 295,830. 6 Claims. (Cl. 173—356.)



3. In combination with a standard socket for electric light bulbs, a plug to engage said socket, a sleeve to engage said plug, arranged to have screwed thereinto the threaded end of an electric light bulb, means to cause the threads of the bulb and sleeve to jam to produce a tight fit, a casing inclosing said sleeve having an opening for the passage of the fingers to grasp said sleeve to prevent the rotation of same while a bulb is being applied to or detached therefrom, an outer casing applied to the casing first named, having an opening to aline with the opening in the casing first named, arranged to be moved to cause its opening to be carried out of alinement with the opening in the casing first named, and means to lock the outer casing to the socket.

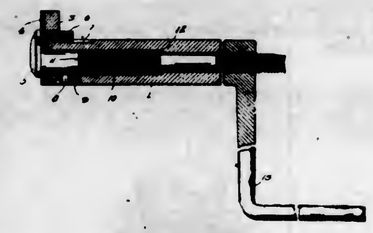
1,348,621. AUTOMATIC COMBINATION-LOCK. FRED B. ASHTON, Chicago, Ill. Filed Mar. 22, 1920. Serial No. 367,977. 4 Claims. (Cl. 70—53.)



1. In an automatic combination lock, the combination with a door, a door bolt held in engagement with the door frame by a coiled spring in a housing integral with

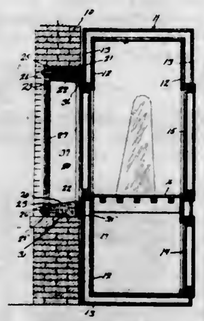
the door, a dial on the door, an indicator shaft the outer end of which forms a knob and indicator, with a section of said shaft constructed in an octagon shape to actuate a tumbler, and two tumblers; of a sleeve around the door bolt with a slot to receive a screw pin inserted in the door bolt, a screw pin so inserted to limit the movement of the door bolt, with a knob extending to the outside of the door riveted to the sleeve, the sleeve's two upturned sides notched at the rear end to receive and actuate a vertical lever, said lever being adapted to actuate an automatic bolt at its other end, said bolt carrying a dog adapted to engage the two tumblers and actuate them, substantially as specified.

1,348,622. SAW-SET. OMAR BISSON, Callaway, Minn. Filed May 3, 1919. Serial No. 294,509. 1 Claim. (Cl. 76—60.)



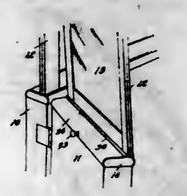
A device of the type described, including a holder having a laterally projecting flange, a stub-ended screw, a guiding recess or groove for said screw, and a crank-equipped mandrel received within said holder, and having a laterally projecting head coöperating with said screw for engaging an interposed object, one end of said holder and said lateral flange thereof having formed therein a continuous depression of approximately Y outline, receiving the projected end of said screw and said mandrel head, said holder having a longitudinal slot opening through one end thereof and said mandrel having a lateral stud received and guided by said slot to retain said mandrel against turning.

1,348,623. CONCRETE CONSTRUCTION. ALBERT G. BORCHERT, Cleveland, Ohio. Filed Oct. 23, 1919. Serial No. 332,691. 8 Claims. (Cl. 189—46.)



1. The combination, with a wall having an opening, of a concrete frame set in said opening, there being a recess around the outer-surface of said frame, packing in said recess making a tight connection between the frame and wall, and a refrigerator making a rigid connection with the inner side face of the frame.

1,348,624. CONVERTIBLE-AUTOMOBILE-BODY CONSTRUCTION. LOUIS BRESIN, New York, N. Y., assignor to Adams-Williams Manufacturing Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 12, 1919. Serial No. 316,989. 20 Claims. (Cl. 296—45.)



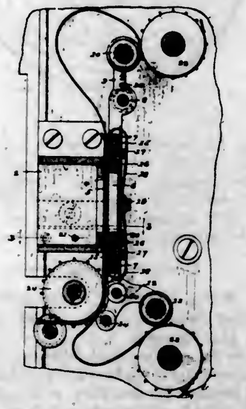
1. A vehicle body wall section, having a plurality of lug sockets, a removable panel having lugs adapted to enter said sockets, and an operating member for simultaneously securing all of said lugs in their respective sockets.

1,348,625. DEVICE FOR REPAIRING FENDERS OF AUTOMOBILES. FRANK A. BRIGGS, Bellingham, Wash. Filed Sept. 2, 1919. Serial No. 321,256. 1 Claim. (Cl. 280—154.)



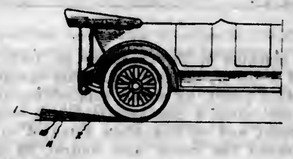
As an article of manufacture, a fender repairing device comprising a plate that is curved to fit the lower side of a fender and provided with perforations for the reception of securing means, and a relatively deep narrow internal channel formed on one edge of said plate and arranged to fit over the flange of a fender, said channel having perforations to permit the passage of securing means.

1,348,626. FILM-GATE FOR MOTION-PICTURE MACHINES. LOUIS COATSWORTH, Chicago, Ill., assignor to Safety Projector & Film Co., Portland, Me., a Corporation of Maine. Original application filed Nov. 7, 1916, Serial No. 129,977. Divided and this application filed Mar. 31, 1917, Serial No. 159,010. Renewed Mar. 27, 1919. Serial No. 285,647. 3 Claims. (Cl. 88—17.)



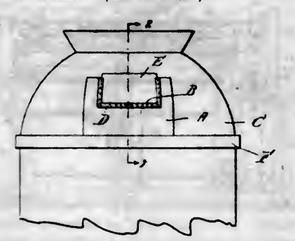
1. In a motion picture machine, a main frame, a fixed apertured guide plate for a picture film, a film feeding sprocket drum associated with the lower end of said guide plate, an upper film supply sprocket drum and a lower film take-up sprocket drum associated with the respective upper and lower ends of said guide plate and located to the rear of the film feeding sprocket drum, and a film confining gate pivoted to the main frame near the upper end of the guide plate and having pivotal movement in a vertical plane, said gate having an extension above its pivot point carrying a bearing roller adapted to bear against a forward side of the film supply sprocket drum and a forked extension at its lower end with the forks of said extension carrying bearing rollers adapted to bear against an upper side of the film take-up sprocket drum and a rear side of the film feeding sprocket drum respectively, substantially as set forth.

1,348,627. JACK FOR AUTOMOBILES. JOSEPH S. COOK, Tacoma, Wash. Filed Sept. 15, 1919. Serial No. 323,889. 3 Claims. (Cl. 254—89.)



1. A vehicle jack comprising a block having an inclined upper surface and an inclined runway member adapted to be supported by one end on the block and when placed on end to engage the vehicle axle to support it.

1,348,628. IDENTIFICATION-MARKER FOR RECEPTACLES SUCH AS MILK-CANS. BINNY FRANK COMBS-East Berkshire, Vt. Filed Aug. 11, 1919. Serial No. 316,561. 2 Claims. (Cl. 40—16.)



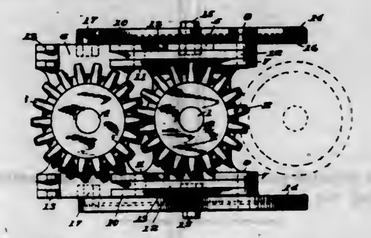
1. An identification marker for milk cans, consisting of a metal holder for cards, the holder being made to conform superficially to the contour of the dome-shaped top of the can to which it is to be applied, to serve as additional means for holding the cards therein, and having an opening to expose descriptive matter upon the card when inserted; the portion of the marker surrounding said opening being provided with a raised bead at the inner limit of the projecting edge to reinforce it against external pressure.

1,348,629. GARMENT-BUTTON. SARAH W. CUSHMAN, Norwich, N. Y. Filed Jan. 15, 1920. Serial No. 351,575. 7 Claims. (Cl. 24—104.)



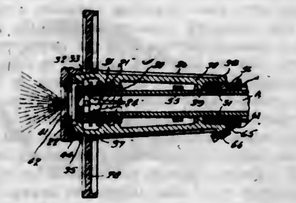
1. In a garment button, an attaching member provided with garment-attaching means and with outwardly extending tongues, a disk, a button-head secured to said disk, a hollow cylindrical element fixedly united with the periphery of said disk, and helical cams united with said cylindrical element and facing inwardly thereof toward said disk and being engageable and coöperative with said outwardly extending tongues to fasten said hollow cylinder to said attaching member.

1,348,630. TRACTOR-STEERING DEVICE. JOHN M. CUSTENBORDER, Mackinaw, Ill. Filed Apr. 22, 1918. Serial No. 229,992. 8 Claims. (Cl. 74—101.)



1. In a motion transmitting device the combination of a driving shaft, a driven shaft, a driving element carried by the adjacent ends of each shaft and each driving element in engagement with the other, a housing adjacent each driving element, and a connection between said housings having a pivotal point of attachment to one housing in line with the tangent to the circle of engagement between the driving elements on one side of the axis of one of the shafts and a pivotal point of connection to the other housing at the opposite side of said axis of the shaft.

1,348,631. SPRAYING DEVICE. WILLIAM L. DEMING and CHARLES CORNWALL, Salem, Ohio, assignors to The Deming Company, Salem, Ohio, a Corporation of Ohio. Filed Jan. 20, 1919. Serial No. 271,977. 12 Claims. (Cl. 299—114.)

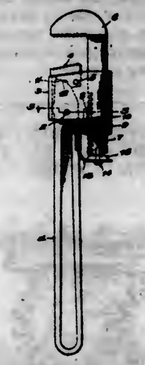


1. In a nozzle, the combination of a tubular stem, having an external thread of greater diameter than the unthreaded portion, and a sleeve member having an orifice and an internal thread of uniform pitch which engages the external thread of the stem, there being a lateral opening from the stem adapted to discharge independently of the internal thread or through a portion of it according to the relative position of the sleeve and stem, and there being a chamber for whirling fluid of substantially the diameter of the threads with which the thread groove of the sleeve member communicates.

1,348,632. WRENCH. HORACE L. DICKSON, Toronto, Ontario, Canada. Filed Apr. 8, 1920. Serial No. 372,207. 4 Claims. (Cl. 81—103.)

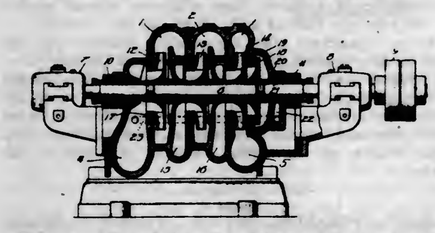
1. A wrench comprising a carrier frame carrying a jaw, a handle connected therewith, a coöperating movable jaw

having a shank slidable through the frame, a spring secured to the end face of the shank and having one end



portion deflected and bearing on the handle, and means for adjusting the movable jaw.

1,348,633. CENTRIFUGAL PUMP AND THE LIKE. WILLIAM C. DOWD, Quincy, Ill. Filed Apr. 24, 1919. Serial No. 292,443. 1 Claim. (Cl. 253—188.)



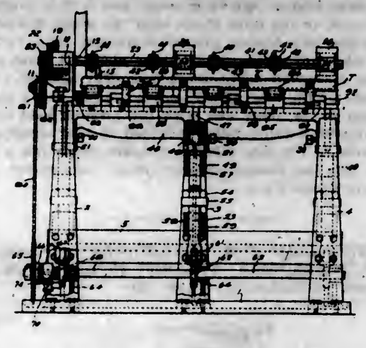
In a machine of the class described the combination of a multi-stage centrifugal pump, a shaft extending through the same, a plurality of impellers located on said shaft and working in tandem, an end balancing chamber surrounding said shaft, an axial passage connecting the last stage with said balancing chamber, a circular valve seat in the balancing chamber surrounding said passage, a balance disk on the shaft in the balancing chamber, a peripheral seat on said disk adapted to engage the valve seat aforesaid when the balancing disk is forced thereagainst, another axial passage leading from the opposite side of the balancing chamber to a point of discharge, a relatively small valve seat surrounding said passage and facing the balancing chamber, a relatively small disk on the shaft adjacent to said seat, and a peripheral seat on said relatively small disk adapted to engage the seat surrounding the discharge passage when the shaft moves in said direction, substantially as described.

1,348,634. VEHICLE-BUMPER. ROLLIN B. FAGBOL, Oakland, Calif. Filed Jan. 5, 1920. Serial No. 349,433. 7 Claims. (Cl. 293—55.)



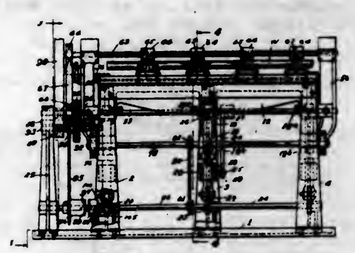
2. In combination with a vehicle bumper disposed transversely of the vehicle, of a pair of multiple leaf vehicle springs supporting the vehicle, certain leaves of said springs extending beyond the others, and providing a support for said bumper.

1,348,635. CUT-OFF MACHINE. NATHAN F. FRETTER, Cleveland, Ohio. Filed June 18, 1917. Serial No. 174,459. 22 Claims. (Cl. 164—60.)



1. In a machine of the character set forth, the combination of a cutter, driving mechanism operatively connected to said cutter, an article support movable toward and from the cutter, a cam sustaining the weight of the article support and serving when actuated to move the support toward the cutter and control its gravitation therefrom, and separable connections between said cam and the driving mechanism.

1,348,636. TOOL FOR CUTTING TUBES AND THE LIKE. NATHAN F. FRETTER, Cleveland, Ohio. Filed Apr. 29, 1918. Serial No. 231,525. 24 Claims. (Cl. 164—38.)



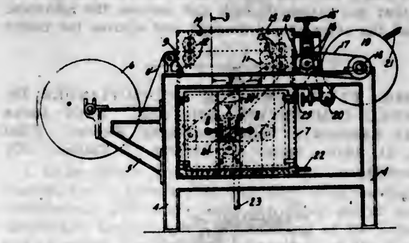
1. In a machine of the character set forth, the combination of a work support, a tool, one of said elements being movable toward and from the other, means for obtaining such movement, driving means shiftable into engagement with the work for moving it with respect to the tool, thereby to cause the tool to operate on the work, and means operating automatically for shifting the driving means.

1,348,637. RULING-PEN. HARVEY R. FULLER, Kirksville, Mo. Filed June 5, 1919. Serial No. 302,035. 4 Claims. (Cl. 120—109.5.)



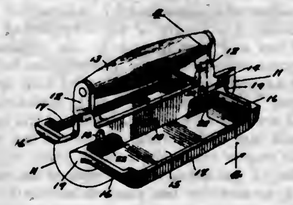
1. A ruling pen comprising two blades, one of said blades having a longitudinal channel constituting a reservoir, and an outstanding flange extending along one side of said channel.

1,348,638. MACHINE FOR MAKING STRETCHABLE CRINKLED PAPER. EDWIN D. GRUNDMANN, New York, N. Y., assignor to Arkell Safety Bag Company, New York, N. Y., a Corporation of New York. Filed June 13, 1919. Serial No. 303,835. 20 Claims. (Cl. 92—69.)



1. In a machine for making stretchable crinkled paper, the combination with a smooth faced receiving roll adapted to have paper deposited thereon and a doctor associated with the roll against which the paper is carried for crinkling, of a steam chest in advance of the receiving roll through which the paper passes for moistening, and means for squeezing into the paper the moisture deposited thereon by the steam.

1,348,639. CONCRETE-FINISHING TOOL. WILLIAM GRUNDMANN, St. Louis, Mo. Filed Mar. 10, 1919. Serial No. 281,790. 2 Claims. (Cl. 72—138.)



1. In a tool of the class described, a vertically disposed blade, a handle secured thereto, a horizontally disposed plate adjustably secured to said blade, the outer edge of said plate being provided with a vertically disposed flange and the inner edge of said plate being provided with a depending blade engaging flange.

1,348,640. PISTON-RING. FREDERICK HACHMANN, St. Louis, Mo., assignor of one-half to Herman Stiefel, St. Louis, Mo., one-eighth to David M. Hutchinson, Ferguson, Mo., and one-sixteenth to Philip E. Moody, one-sixteenth to Chauncey R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Filed Dec. 5, 1918. Serial No. 265,381. 4 Claims. (Cl. 74—108.)



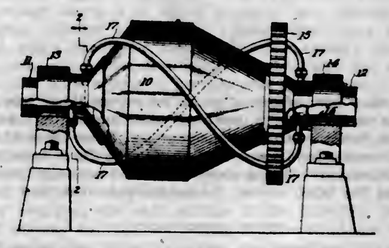
1. A piston ring composed of two independent and finished rings each of which is slitted and the slitted opening of one ring being overlapped by the body portion of the other ring, the contacting faces of each ring being provided with a bore passing partially through the ring, and a soft metal rivet located in the bores for connecting said rings together, said rivet forming an invisible connection in the completed ring.

1,348,641. PISTON-RING. FREDERICK HACHMANN, St. Louis, Mo., assignor of one-half to Herman Stiefel, St. Louis, Mo., one-eighth to David M. Hutchinson, Ferguson, Mo., and one-sixteenth to Philip E. Moody, one-sixteenth to Chauncey R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Filed Feb. 5, 1919. Serial No. 275,137. 1 Claim. (Cl. 74—109.)



A one piece piston ring provided with a lapped portion and with parallel grooves extending throughout the periphery of the ring and into the lapped portions, a cut-away portion formed at each end of the lapped portion and extending from the parallel grooves to the interior face of the ring, a metallic ring of softer material than the piston ring seated in each groove, and inwardly bent ends formed on each end of the metallic ring for holding the metallic ring against rotation, said inwardly bent ends being seated in the grooves formed in the lapped portion.

1,348,642. TUBE-MILL. HARRY W. HARDINGE, New York, N. Y. Filed Sept. 12, 1916. Serial No. 119,612. 3 Claims. (Cl. 83—9.)

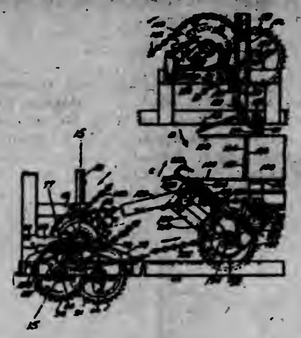


2. In a tubemill, in combination, a rotatable drum having an inlet and a conical outlet portion, means comprising a conduit rotatable with said drum for conveying material from the outlet of said drum to the inlet thereof, said conduit being in the form of a spiral of increasing then diminishing radius, and means at the delivery end of the outlet for causing only the coarser particles to enter said conduit.

1,348,643. PACKAGE CLOSING AND LOCKING MECHANISM. ARTHUR W. HARRIS, Sleepy Eye, Minn. Filed Mar. 17, 1919. Serial No. 283,180. 31 Claims. (Cl. 93—6.)

1. The combination, with means for holding a carton having closing flaps thereon provided with tongues and

ables for interlocking said flaps one with the other, of means for gripping the edges of the tongue-carrying flap



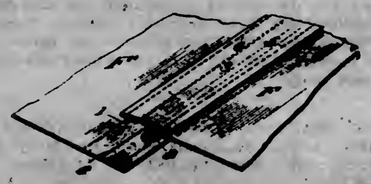
and bending the flap to position the tongue thereon to enter the slits of the other flap.

1,348,644. INNERSOLE FOR BOOTS AND SHOES AND METHOD OF MAKING THE SAME. JOHN L. HAWKINS, Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 13, 1916. Serial No. 136,637. 6 Claims. (Cl. 154—2.)



1. As a new article of manufacture, an inner sole for shoes consisting of a layer of cork composition having woven fabric united to the upper and lower faces of the cork composition by pressure, portions of the intermediate cork composition being pressed into and partially impregnating the fabric layers, substantially as described.

1,348,645. DOUBLE LAP-SEAM FOR SEWED ARTICLES. JESSE J. HEAP, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 8, 1918. Serial No. 261,649. 2 Claims. (Cl. 112—262.)



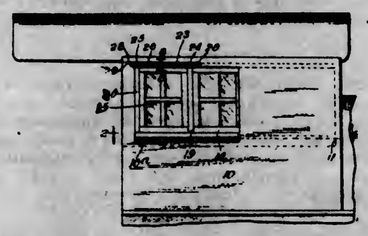
1. A lap seam for sewed articles comprising two fabric sections, one of which has its edge folded and has a reentrant fold back from the edge forming from the fabric section in appearance a tape, said reëntrant fold terminating at one side of and spaced from the folded edge, the other section underlying the folded edge, and reëntrant fold, and two parallel lines of stitches adjacent the edges of the tape appearing part and passing through and joining the fabric sections, said lines of stitches being so located that one passes through and secures the reëntrant fold and the other passes through and secures the folded edge.

1,348,646. FLUID-PUMP FOR MULTICYLINDER INTERNAL-COMBUSTION ENGINES. KNUT JONAS ELIAS HESSELMAN, Saltsjö-Storängen, Sweden. Filed Jan. 21, 1919. Serial No. 272,251. 3 Claims. (Cl. 123—139.)



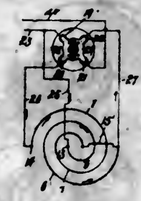
1. The combination with a multi-cylinder internal combustion engine, of a shaft connected to the crank shaft of an engine, gears secured to said shaft, a plunger secured to the shaft by a rod and cross-head, said plunger reciprocating in a pump casing, a suction valve and pressure valve provided in said pump casing, a distributing box communicating with the pump casing and controlled by the pressure valve, a suction pipe communicating with the pump casing and controlled by the suction valve of the pump casing, a plurality of pipes connected with the distributing box and leading each to one cylinder of the engine, a spring-controlled valve provided in each of the pipes, a rod adapted for opening each of said spring-controlled valves, and an auxiliary shaft, connected to the shaft that is secured to the crank shaft of the engine for operating said last named rods, whereby when one revolution of the engine crank shaft takes place, each of the spring valves of the pipes will be opened in succession, substantially as and for the purpose set forth.

1,348,647. LOCOMOTIVE-CAB WINDOW. HARRY C. HOGLE, Chicago, Ill. Filed June 4, 1918. Serial No. 238,164. 6 Claims. (Cl. 20—40.)



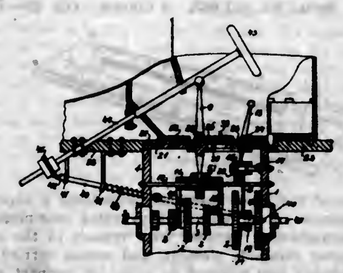
1. An interchangeable sashed vestibule and sliding sash construction, comprising in combination a window frame inclosing an opening providing tracks extending across and beyond said opening, a series of sashes, the terminal ones of the series having pivotal sliding relation to said tracks, and pivotally supporting an intermediate sash or sashes whereby the series may be brought into a single plane to slide across or from the opening, and the pivoting of the terminal sashes may project the intermediate sash or sashes through the opening and parallel therewith to constitute a vestibule.

1,348,648. ELECTRIC HEATING ELEMENT AND WIRING THEREFOR. SHERMAN L. KELLY, Toledo, Ohio. Filed Oct. 23, 1916. Serial No. 127,166. 4 Claims. (Cl. 219—37.)



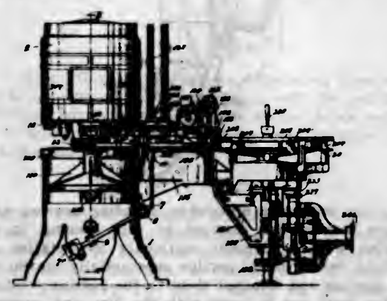
1. In an electric heating element, a line circuit, a switch therein, and a plurality of resistance coils having their convolutions alternating, with the inner end of one coil electrically connected to the outer end of the other coil and in switch connection with one side of the line, and with the other ends of said coils in connection with the other side of the line, one of said last connections through the switch.

1,348,649. LOCKING DEVICE FOR MOTOR-VEHICLES. PETER OVE JULIUS KNUDSEN, Copenhagen, Denmark. Filed Dec. 20, 1918. Serial No. 267,594. 5 Claims. (Cl. 70—126.)



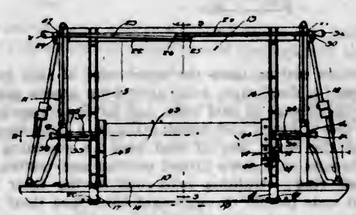
1. In a motor-driven vehicle having a speed-changing mechanism, a driving gear, and a lever for operating said speed-changing mechanism, the combination of a slidable, non-rotatable toothed sector, a lever for sliding said sector into engagement with said gear, and means for simultaneously locking said levers against operation.

1,348,650. CAN-CLOSING MACHINE. ALFRED L. KRONQUEST, Chicago, Ill., and JOHN C. TALIAFERRO, Baltimore, Md., assignors to Continental Can Co., Incorporated, Syracuse, N. Y., a Corporation of New York. Filed May 23, 1918. Serial No. 236,145. 51 Claims. (Cl. 113—14.)



1. The combination with a seaming mechanism having continuously traveling seaming devices, each including seaming means, a chuck and a coöperating rotatable member having a movement relative to each other for seating a can end in a can body, at a housing for said chuck having a half mold associated with each chuck, of a continuously rotating assembling mechanism for positioning a can end relative to a can body and for delivering the same to a seaming device in alinement with the chuck and rotatable member and a series of half molds carried by the assembling mechanism and coöperating successively with the half molds of each seaming device for rounding up the can body preparatory to the seating of the end in the can body by the chuck.

1,348,651. SHOVELING-BOARD FOR WAGON-BODIES AND THE LIKE. ALEXANDER F. KUHNEN, Dixon, Ill., assignor to American Wagon Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 11, 1918. Serial No. 261,987. 2 Claims. (Cl. 296—51.)

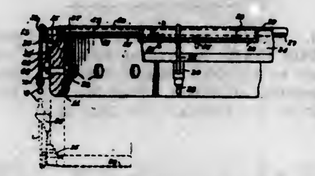


1. The combination with the floor and side walls of a wagon body, of a shoveling board therefor, comprising an end section adapted to occupy the space between the side walls of the wagon body, a pair of vertical reinforcement bars on the back face of said shoveling board, pivotal connections between the lower ends of said bars and the wagon body permitting the shoveling board to swing rearwardly and downwardly, means for normally locking the shoveling board in vertical position between the side walls of the wagon body, there being a rectangular opening in the lower portion of the shoveling board and immediately adjacent the floor of the wagon body when the shoveling board is in raised position, said opening extending between the vertical reinforcement bars aforesaid, and a closure for said opening comprising a door of the same size and contour as the opening, said door being provided with a pair of vertical end reinforcement bars adapted to lie adjacent to and between the shoveling board and reinforcement bars when the door is in closed position, the opening extending beneath one of the shoveling board reinforcement bars, one end of the door being adapted to extend into the space beneath said reinforcement bar, the reinforcement bar on the other end of the door overlying the back surface of the shoveling board, and thereby limiting the closing movement of the door, and means for locking the door in closed position with respect to the shoveling board, substantially as described.

1,348,652. BANJO. WILLIAM L. LANGE, New York, N. Y. Filed Apr. 30, 1919. Serial No. 293,832. 18 Claims. (Cl. 84—270.)

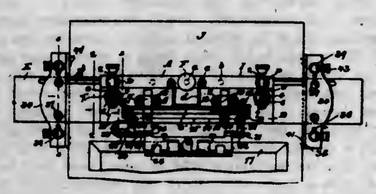
18. In a musical instrument of the character described, the combination of a rim provided at its upper and outer edge with a beveled face terminating at its lower part with an annular shoulder; a plurality of spacing plates disposed vertically and radially around and projecting outwardly from said rim, each plate being provided with a horizontal lower face engaging said shoulder, and provided with an inclined intermediate face engaging said beveled face, and provided at the upper part with an inward spacing extension engaging over the upper face of said rim, and provided with a downward and outward

projection from the extension engaging in said rim for holding the spacing plate in place; a plurality of tensioning lugs disposed around the outer face of the rim and each provided with a vertical hook-rod bore; a plurality of bolts passing radially through said rim in the lower part thereof and having threaded engagement with said lugs for holding the lugs to the rim; a hoop having its lower edge resting upon said lugs, and having its inner face held spaced from the rim by the outer edge of said spacing plates, and its upper edge slightly rounded and projecting above said spacing plates; a pressure ring of circular



cross-section resting upon the upper edge of said spacing extensions; a diaphragm head stretching across said rim and the upper edge of said hoop, and having its peripheral portion down-turned and terminating in a flesh ring surrounding the outer face of said hoop; a straining hoop placed around said down-turned portion and resting upon said flesh ring; straining hook-rods having their lower threaded ends passed through said bores and their hooks disposed over said straining hoop; and nuts secured at the lower ends of said straining rods.

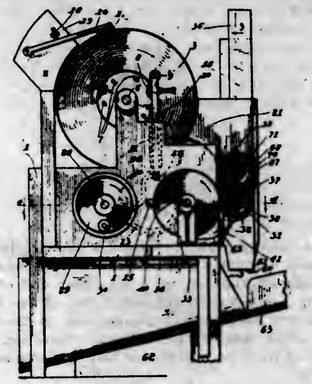
1,348,653. SHADING-MACHINE. WILLIAM HENRY MARGETTS, Toronto, Ontario, Canada. Filed June 4, 1919. Serial No. 301,685. 7 Claims. (Cl. 41—4.5.)



1. A machine of the class described comprising front and back plates; a movable supporting member to which the said back plate is firmly coupled; two adjusting screws, each provided with a suitable graduated scale, positioned one at each end of the said plates; alined supporting members carried by said plates with which said adjusting screws are adapted to co-act so that said front plate may be moved toward or away from said back plate the same distance at each end; an adjusting rod provided with a suitable graduated scale, and threaded at one end, and extending at each end through a movable plate positioned above said front plate, and means carried by said front plate in which said adjusting rod has bearing and with which the thread of said rod co-acts in order that said movable plate may be shifted longitudinally of said front plate in either direction.

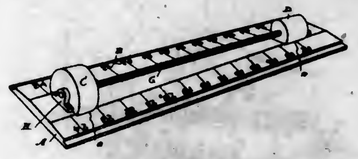
1,348,654. CUSHION-SPRING-ASSEMBLING MACHINE. CHARLES C. MEUTSCH, Chicago, Ill., and EMIL A. CHRISTOPH, Buffalo, N. Y. Filed Nov. 10, 1919. Serial No. 337,010. 18 Claims. (Cl. 29—87.1.)

1. A machine of the type described comprising in combination, a reciprocating means for compressing a coil spring in an axial direction, a guideway for retaining said spring, an ejecting slide arranged to reciprocate in said



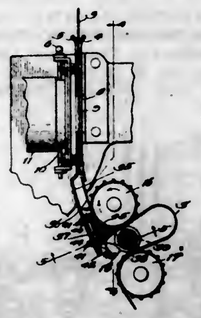
guideway for radial action on said spring while in a compressed state.

1,348,655. ROLLING PERSPECTIVE-RULE. WALTER ALBERT MOORE, Welland, Ontario, Canada. Filed Sept. 4, 1919. Serial No. 321,663. 4 Claims. (Cl. 33—77.)



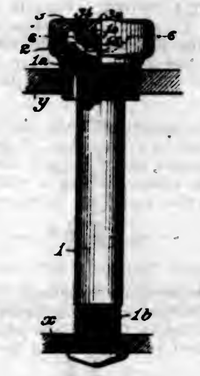
1. A rule of the class described comprising a tapered rotatable element; a suitable scale-provided base-member having a straight-edge inclined with respect to the axis of said tapered rotatable element, and means carried by said base-member and adapted to rotatably support said tapered element with part thereof extending below said base-member, the whole adapted to co-act as set forth.

1,348,656. PICTURE-PROJECTION APPARATUS. ALBERT B. MUELLER, Chicago, Ill. Filed Nov. 7, 1917. Serial No. 200,689. 1 Claim. (Cl. 88—18.)



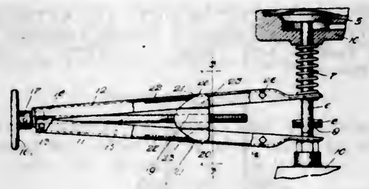
Picture projection apparatus including gearing and a picture bearing film engaged by said bearing, in combination with a normally stationary non-rotating shoe having a curved facial portion substantially coaxial with said gearing and disposed close to the gearing where the gearing teeth are in mesh with the film, and means for bodily moving said gearing and shoe together to adjust the film.

1,348,657. FLEXIBLE STAYBOLT FOR STEAM-BOILERS. ALFRED C. NEGUS, Schenectady, N. Y. Filed Sept. 13, 1919. Serial No. 323,449. 3 Claims. (Cl. 85—1.5.)



3. The combination of a flexible stay bolt having a head which is in the form of a section of a sphere included between two planes, and is recessed, at its top, in the form of an end section of a sphere, the major transverse dimension of which is nearly equal to that of the bolt head; a sleeve in which said head is socketed; and a cap, closing said sleeve and having a projection, on its inner side, in the form of an end section of a sphere, which enters the recess of the head, and depends below the cap only sufficiently far as to permit the interposition of a clear space between it and the bolt head, throughout its entire surface.

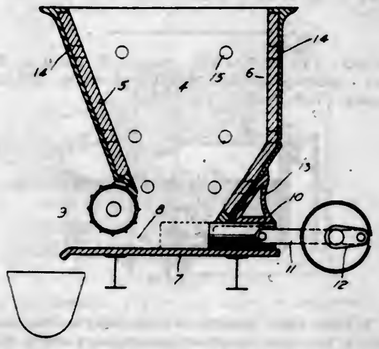
1,348,658. VALVE-LIFTER. OTTO NELSON, Chicago, Ill. Filed Jan. 29, 1919. Serial No. 273,802. 5 Claims. (Cl. 29—87.1.)



1. A valve lifter comprising two coöperating jaws with a slot in one end of each jaw dividing said jaw end into two prongs, there being a shoulder at the inner end of each of said slots; and a wedge disposed between said jaws and engaging said shoulders.

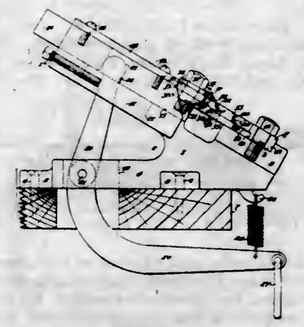
1,348,659. ASH-DISCHARGE MECHANISM. FRANK T. NICHOLSON, Cambridge, Mass., and JOHN M. NICHOLSON, New York, N. Y., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 18, 1918. Serial No. 217,909. 9 Claims. (Cl. 110—165.)

2. A refuse discharge mechanism for stokers, comprising a well structure having poke holes formed in the sides thereof and provided with a lateral discharge opening near the bottom thereof, a grinder roll partially closing



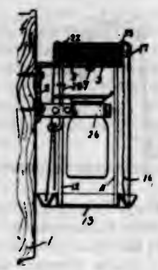
said aperture and plungers operating on the bottom of the well structure for impelling fuel through said aperture.

1,348,660. MACHINE FOR TIPPING SHOE-LACES. SVAN NORDEN, Cranston, R. I. Filed Mar. 20, 1919. Serial No. 283,758. 13 Claims. (Cl. 153—1.5.)



1. In a machine for tipping corset- or shoe-laces, the combination of a set of dies arranged to act against the opposite edges of the tip-blank to roll the latter around the lace, a substantially flat rest on which the blank lies, means to operate said dies, means engaging the marginal edge of the blank to hold it flat against the rest while its other edge is curled around the lace, and means to release the edge-holding means as the dies come into register.

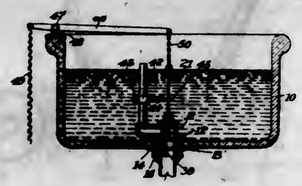
1,348,661. MILK-BOTTLE HOLDER AND COOLER. GERTRUDE V. OBERMAN, Modesto, Calif. Filed Apr. 7, 1919. Serial No. 288,419. 2 Claims. (Cl. 45—132.)



1. An evaporation refrigerator comprising a water pan, a shelf supported below the pan, a fabric supported from

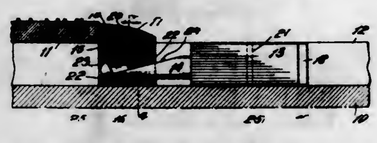
the pan and extending to the shelf, and a framework for holding the upper portion of the fabric in the pan and extending to the shelf outside the fabric to hold the latter in place.

1,348,662. FLUSH-VALVE. ABRAM N. PASMAN, Waterbury, Conn. Filed May 7, 1919. Serial No. 295,409. 6 Claims. (Cl. 4—5.)



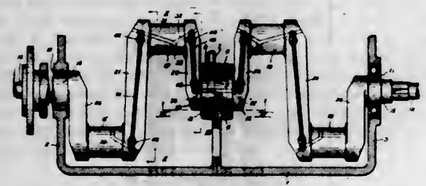
1. A flush valve apparatus comprising a body member having a vent and overflow connection, a valve member adapted to seat on the body member, and a device for covering the orifice of the vent and overflow connection within, and extending approximately to the bottom of the body member so as to provide a constant fixed opening for the passage of air through the chamber in the said body member to the vent and overflow connection.

1,348,663. PRINTER'S PLATE-HOOK. JOHN W. PITT, Bath, and GEORGE SAGUE, Highland, N. Y., Filed Apr. 24, 1918, Serial No. 230,393. Renewed Dec. 22, 1919. Serial No. 346,772. 9 Claims. (Cl. 101—387.)



9. A printer's plate hook adapted to the grooves in the beds and the like of presses, comprising a member provided with means for securing it fixedly in the bed groove, a second member having a clamping jaw, a stem or spindle on one of said members entering a longitudinally disposed socket in the other member for swiveling said members together, and means for giving the jaw-carrying member its plate-clamping movement with respect to the fixed member, said means being a beveled face on the spindle and a screw set in the member having a socket impinging on said beveled face.

1,348,664. OILING DEVICE. FRANÇOIS RICHARD, Cleveland, Ohio, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Filed Mar. 10, 1917. Serial No. 154,037. 5 Claims. (Cl. 184—6.)



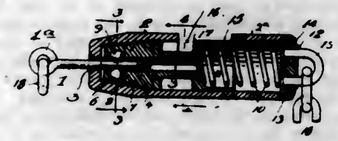
4. An oiling device comprising the combination of a multiple crank shaft having rotary journals and a pair of revoluble journals, each provided with ducts leading to the wearing surfaces thereof, means for conducting oil from said rotary journal to one of said revoluble journals, and a pair of arcuate tubes each communicating with both of the ducts of said revoluble journals and forming in conjunction therewith an approximate circle whereby to counteract centrifugal force and insure a continuous uniform flow therethrough.

1,348,665. LAMP-SUPPORT. FRANCIS M. ROSENFELD, New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J., a Corporation of New Jersey. Filed Jan. 7, 1920. Serial No. 349,993. 4 Claims. (Cl. 248—42.)



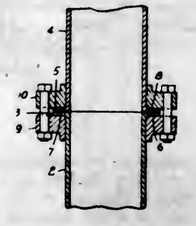
2. In a lamp support, the combination of a coil of resilient material forming a spiral gripping member and a lamp holder mounted on the coil and adjustable with respect to the central axis thereof and in a plane normal to said axis.

1,348,666. FASTENER. WILLIAM A. SCHULER, New York, N. Y. Filed Nov. 3, 1919. Serial No. 335,283. 4 Claims. (Cl. 24—244.)



1. A fastener, comprising a pair of members, one of which is an apertured shell to receive the other member, said shell having a lateral opening, and a spring-pressed endwise-movable clutch carrier, wholly inclosed within the shell and laterally indented to provide means lying opposite to the lateral opening in the shell through which said means may be engaged to release the clutch.

1,348,667. CONNECTION OR JOINT AND METHOD OF MAKING SAME. CHARLES F. SNYDER, Pittsburgh, Pa. Filed June 14, 1919. Serial No. 304,178. 7 Claims. (Cl. 285—140.)



7. A joint structure including a metallic member having a granular contacting surface.

1,348,668. ADJUSTABLE SCREEN FOR THRESHING-MACHINES. ROBERT G. STEELE, Kelso, Saskatchewan, Canada. Filed Jan. 20, 1919. Serial No. 272,168. 2 Claims. (Cl. 130—19.)

1. The herein described screen comprising a supporting frame, a fixed screen section including a frame rigidly

carried by and above said supporting frame and having spaced transverse webs bent upward at one edge to form grain-retarding lips, one end bar of the frame of this section being also bent upward to form a lip, an adjustable screen section including a frame slidably mounted be-



tween said supporting and fixed frames and having transverse webs spaced to correspond with those in the fixed section, and means carried by the supporting frame for altering the position of said adjustable section to set its webs more or less across the spaces between the webs of the fixed section.

1,348,669. MEANS FOR FORMING COMPRESSED OBJECTS. JOHN W. TALBOT, Chicago, Ill. Filed Jan. 28, 1918. Serial No. 214,153. 5 Claims. (Cl. 18—5.)



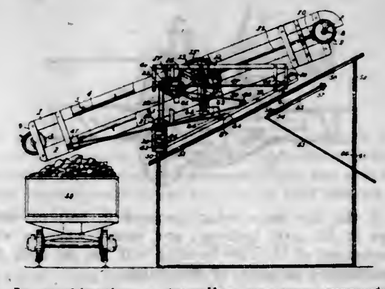
1. In an apparatus of the character described, the combination of a plurality of compression cylinders, a hydraulically-actuated compression device adapted to fit said cylinders, an abutment member movable into and out of alinement with the cylinders when in operative position, and means for supporting said cylinders so that they may be moved successively into operative relation with said compression device and abutment member.

1,348,670. ARTIFICIAL BAIT. PAUL VIEHWEGER, Milwaukee, Wis. Filed May 27, 1919. Serial No. 300,081. 4 Claims. (Cl. 43—35.)



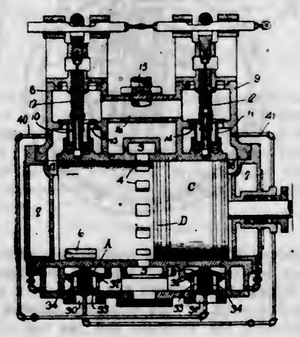
1. A device of the class described comprising a body member provided near one end thereof with a centrally disposed elongated recess, a hook member adapted to be normally concealed within said recess and having one end pivoted therein, spring means normally urging the free end of the hook member outwardly of said recess, a substantially U-shaped spring member carried by the body member and extended into said recess to engage the hook member and releasably secure the same against the action of its spring, and means for releasing the keeper from engagement with the hook member.

1,348,671. CONVEYER. WILLIAM J. VOELKER, Waterloo, Iowa. Filed June 2, 1919. Serial No. 301,166. 3 Claims. (Cl. 193—3.)



1. In combination, a traveling conveyer supported for both longitudinal and lateral displacements, mechanism for shifting the conveyer laterally, and other mechanism containing disconnectibly connected elements adapted for alternate coactions to either shift the conveyer longitudinally or to raise and lower its receiving part vertically.

1,348,672. UNIFLOW STEAM-ENGINE. CHARLES WAINWRIGHT, Erie, Pa. Filed Apr. 26, 1919. Serial No. 292,789. 1 Claim. (Cl. 121—125.)

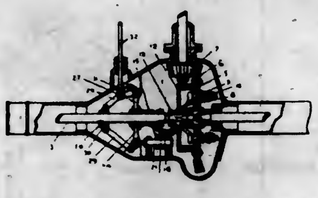


The combination in a uniflow steam engine, of a cylinder having exhaust means at an intermediate point in its length, and also having auxiliary exhaust means adjacent to its ends, a piston in said cylinder, valve-controlled conduits intermediate a source of steam supply and the ends of the cylinder, an exhaust chamber having an eduction orifice and surrounding the cylinder in communication with the first-named exhaust means, auxiliary exhaust valves intermediate said auxiliary exhaust means and said chamber, said valves having tubular stems closed at their outer ends and open at their inner ends, receptacles receiving and guiding said stems, springs sheathed in the stems and interposed between the closed ends thereof and opposed abutments, a conduit intermediate one of the valve-controlled conduits and the valve receptacle remote from said conduit, and a conduit intermediate the other valve-controlled conduit and the valve receptacle remote from said valve-controlled conduit, the conduit connections to the valve receptacles being arranged at the outer ends of said receptacles.

1,348,673. AUTOMATIC CLUTCH-DIFFERENTIAL ESPECIALLY FOR MOTOR-CARS. ROBERT WILLIAM ALLISON WARREN, Katanning, Western Australia, Australia. Filed Aug. 7, 1919. Serial No. 315,939. 6 Claims. (Cl. 74—7.)

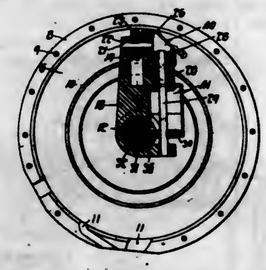
1. An automatic friction clutch differential comprising a live axle; a clutch member secured upon the inner end

of one part of the live axle; a complementary clutch member rotatable with but movable slightly endwise upon the inner end of the second part of the live axle, the two



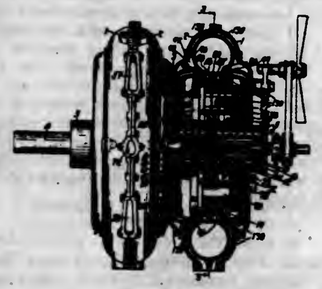
parts of the live axle being mounted in ball or roller bearings in the axle housing; and means whereby sidewise movement of the axle housing with the car body disengages the two members of the clutch.

1,348,674. CYLINDER-FORMING PROCESS. HOWARD L. WEED, Detroit, Mich., assignor to Weed Differential-Rotary Motor Company, Detroit, Mich., a Corporation of South Dakota. Original application filed May 11, 1917, Serial No. 167,994. Divided and this application filed Apr. 4, 1918. Serial No. 226,606. 3 Claims. (Cl. 29—148.)



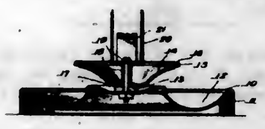
1. The process of forming a cylindrical surface, parts of which are located on two separate members, which consists in interposing between the members a tool rotatable about the axis of the surface, causing relative movement between the members and the tool along said axis, and causing the two members to approach the interposed tool.

1,348,675. ROTARY ENGINE. HOWARD L. WEED, Detroit, Mich., assignor to Weed Differential-Rotary Motor Company, Detroit, Mich., a Corporation of South Dakota. Filed Aug. 3, 1918. Serial No. 248,186. 17 Claims. (Cl. 123—11.)



1. A rotary engine comprising a casing, a main shaft mounted therein, said casing including an annular cylinder, a pair of rotors angularly movable about the main shaft, each of the rotors including a pair of pistons arranged to travel in the cylinder, the pistons of the two pairs alternating, a crank shaft carrier between the rotors and rigid with the main shaft, crank shafts mounted in said carrier, and having their axes parallel to that of the main shaft, said crank shafts each having a gear on one end and a crank on the other and alternate crank shafts being reversely arranged, gears fixed to the casing and with which the first named gears are in mesh, and a link connecting each crank with the rotor which is on the same side of the crank shaft carrier.

1,348,676. ASH-TRAY. JOHN W. WILLINGHAM, Honolulu, Hawaii. Filed June 24, 1919. Serial No. 306,315. 2 Claims. (Cl. 131—51.)



1. An ash tray comprising a main member provided with a circumferential groove in its upper face serving as a receptacle for ashes and the like, a cupped member secured centrally upon said main member and having its sides extending upwardly in diverging relation to the top of said main member whereby to provide an inwardly constricted circumferential opening.

1,348,677. PROCESS OF MANUFACTURING METALLIC SHAPES. CLAUDE A. WITTER, Philadelphia, Pa. Filed Oct. 4, 1919. Serial No. 328,454. 6 Claims. (Cl. 29—169.)



1. The process herein described of manufacturing metallic shapes, said process consisting in making an ingot, flattening the same and punching it to form a hole therein, then enlarging the bloom thus formed to form a ring, reducing the ring in cross section, then cutting the ring and straightening it.

1,348,678. RAILROAD-RAIL. CLAUDE A. WITTER, Philadelphia, Pa. Filed May 22, 1920. Serial No. 383,405. 2 Claims. (Cl. 238—150.)



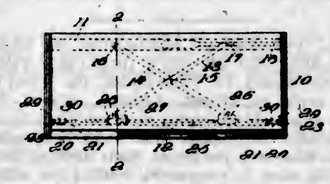
1. As an article of manufacture, a railroad rail made of wrought and rolled metal, in which the metal decreases in density from the head of the rail to the flanges thereof.

1,348,679. WING. HARRY M. WOLFE, New York, N. Y. Filed Mar. 15, 1920. Serial No. 366,021. 7 Claims. (Cl. 244—31.)



1. A wing for aerial machines, comprising a frame formed of members extending fore and aft and each of curved shape when viewed in plan, the members having contacting portions and secured together, and a covering for inclosing the said frame.

1,348,680. DOOR-EQUALIZER. ALBERT M. WOLTZ, Baltimore, Md., assignor to Solomon Himmel, Baltimore, Md. Filed Sept. 17, 1918. Serial No. 254,527. 7 Claims. (Cl. 45—78.)



1. The combination with a slidable and swinging door, of brackets attached to the door, a rod having a loose engagement with said brackets, equalizer members each having one end loosely engaging said rod, means normally preventing movement of one of said ends longitudinally of the rod, and means for supporting the other ends of said equalizer members, said rod being disengageable from said brackets and said equalizer arms by a longitudinal movement.

1,348,681. FOUNTAIN-BRUSH. WILFRED J. WRIGHT, Summit, N. J., assignor to Ida C. Wright, Summit, N. J. Filed Feb. 28, 1920. Serial No. 362,083. 1 Claim. (Cl. 15—49.)



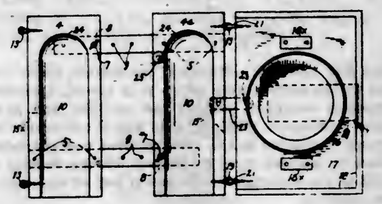
A fountain brush comprising a hollow handle which has removably secured thereto a cap member, said member having a perforated wall and a threaded bore; a brush structure including an attaching member having a threaded nipple adapted for threading engagement with said bore and a passage, a brush element embodying a core, said core having a threaded bore and a passage therein, a second nipple on said attaching member adapted for threading engagement with said bore in the core of said brush element, the end of the first mentioned nipple and the wall of said cap member coacting to control and regulate the flow of liquid.

1,348,682. SHIPPING-PACKAGE. STEFAN ZIELBINSKI, Boston, Mass. Filed Jan. 27, 1920. Serial No. 356,033. 9 Claims. (Cl. 217—56.)



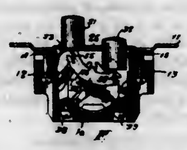
1. A shipping case provided with an opening in a wall thereof; an address plate pivotally mounted therein and adapted to be reversed by movement about the axes of the pivots thereof; and means for locking said address plate in adjusted position.

1,348,683. ROLLING DEVICE FOR SCRUBBING, &c. HERBERT G. ALDENBRUCK and LEONARD E. WEBBER, St. Paul, Minn.; said Webber assignor to said Aldenbruck. Filed Feb. 3, 1920. Serial No. 355,903. 1 Claim. (Cl. 155—167.)



In a device of the kind described, a platform mounted on casters and having its top provided with parallel grooves adapted to receive the knees and legs of a kneeling person; said platform composed of two sections connected together and arranged for separation more or less apart, the grooves being two in number and arranged one in each section.

1,348,684. ELECTRIC SWITCH. CARL ERIC ANDERSON, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 14, 1917. Serial No. 174,743. 10 Claims. (Cl. 200—72.)

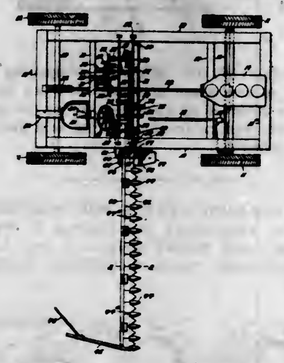


1. In an electric switch, a frame comprising a pair of standards spaced apart and notched in register at their upper edges to form open bearings, and having therebelow alined bosses forming trunnions, in combination with a rocker pivoted in said open bearings and a switch bar pivoted on said trunnions, a switch spring operatively interposed between the rocker and switch bar and having an associated guide seated at one end against the switch bar and in sliding engagement at its other end with the rocker, together with means for oscillating the rocker to shift the end of the switch spring engaged thereby from one side to the other of the axis of oscillation of the switch bar.

1,348,685. MOWING-MACHINE. MARMADUKE H. P. ARCHER, Conshohocken, Pa. Filed Oct. 24, 1919. Serial No. 333,047. 2 Claims. (Cl. 56—25.)

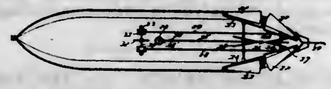
1. The combination with a power mowing machine and the drive shaft therefor, of a mowing attachment sup-

ported by and adapted to project laterally from one side of the machine, a cutter frame, a shoe on the inner end of the cutter frame, means for operating the cutter of the mowing attachment including a connecting rod and crank mechanism and means for starting and stopping the same, a crank arm associated with and operatively connected to the shoe and means for moving said crank arm to swing



the shoe and mowing attachment accurately up or down relative to the surface over which it is moved, a crank lever pivotally mounted beneath the machine and having operative connection with the shoe and a bell-crank lever operatively connected to the cranked lever and adapted for actuation by a hand lever to accomplish the raising and lowering of the movement attachment out of and into operative position.

1,348,686. UNDERWATER BOAT. JOHN A. ARCHIBALD, South Pekin, Ill. Filed Nov. 12, 1918. Serial No. 262,231. 2 Claims. (Cl. 114—16.)



1. A submersible craft having its hull provided in the side walls thereof with opposed guides arranged in pairs, those of one pair being inclined upwardly toward the stern and those of the other pair being inclined downwardly toward the bow, blades or planes arranged in pairs and pivotally mounted in said guides at one end for lateral extension from the sides of the hull, arms carried by said blades and projecting inwardly of the hull, and operating means for said blades whereby those inclined in one direction will be extended and the others simultaneously withdrawn into their guides.

1,348,687. PROCESS OF PREPARING OR TREATING COCOANUT AND PRODUCT OBTAINED THEREBY. FRANKLIN BAKER, Jr., Philadelphia, Pa. Filed Oct. 31, 1917. Serial No. 199,489. 8 Claims. (Cl. 99—8.)

6. The process of preserving cocoanut in a natural moist condition, which consists in finely dividing the kernel, packing the same in receptacles, heating the open receptacles *in pleno* to a temperature of approximately 212° F. to 225° F., introducing the heated receptacles into a vacuum chamber whereby the air may be extracted therefrom, closing the receptacles *in vacuo*, subjecting the filled and sealed receptacles to a temperature sufficient to completely sterilize the contents thereof, and suddenly cooling the receptacles and their contents by introducing them into a cooling fluid immediately upon leaving the final heating chamber.

8. As a new article of manufacture, a hermetically sealed package of completely sterilized cocoanut kernel in a finely divided state confined *in vacuo* and from which the bulk of the air has been excluded.

1,348,688. PROCESS OF PREPARING OR TREATING COCOANUT AND PRODUCT OBTAINED THEREBY. FRANKLIN BAKER, Jr., Philadelphia, Pa. Filed Oct. 14, 1918. Serial No. 257,994. 3 Claims. (Cl. 99—8.)

1. The process of preserving cocoanut in a natural moist condition, which comprises separating the milk from the kernel, finely dividing the kernel, packing the same in receptacles, providing a solution of sugar and water, heating the same, introducing a portion of the heated sugar solution into the receptacles with the prepared cocoanut kernel, heating the open receptacles *in pleno* to a temperature of approximately 212° F., to 225° F., introducing the heated receptacles into a vacuum chamber whereby the air may be extracted therefrom, hermetically closing the receptacles *in vacuo*, subjecting the filled and sealed receptacles to a temperature sufficient to completely sterilize the contents thereof, and suddenly cooling the receptacles and their contents by introducing them into a cooling fluid immediately upon leaving the final heating chamber.

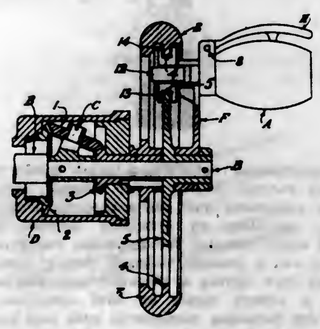
3. As a new article of manufacture, a hermetically sealed completely sterilized package of cocoanut kernel in a finely divided state without the milk together with a sugar solution confined *in vacuo* and free from air.

1,348,689. PROCESS OF PREPARING OR TREATING COCOANUT AND PRODUCT OBTAINED THEREBY. FRANKLIN BAKER, Jr., Philadelphia, Pa. Filed Oct. 14, 1918. Serial No. 257,995. 3 Claims. (Cl. 99—8.)

1. The process of preserving cocoanut in a natural moist condition with the original milk, which comprising separating the milk from the kernel, finely dividing the kernel, packing the same in receptacles, heating the milk of the cocoanut to a temperature approximating 212° F., introducing a portion of the heated cocoanut milk into the finely divided mass of the kernel, heating the open receptacles *in pleno* to a temperature of approximately 212° F. to 225° F., introducing the heated receptacles into a vacuum chamber whereby the air may be extracted therefrom, hermetically closing the receptacles in which the finely divided cocoanut and milk are placed *in vacuo*, subjecting the filled and sealed receptacles to a temperature sufficient to completely sterilize the contents thereof, and suddenly cooling the receptacles and their contents by introducing them into a cooling fluid immediately upon leaving the final heating chamber.

3. As a new article of manufacture, a hermetically sealed completely sterilized package of cocoanut kernel in a finely divided state together with its original milk confined *in vacuo* and free from air.

1,348,690. VARIABLE-SPEED HAND-DRIVING MECHANISM. ARCHIBALD BARR and WILLIAM STROUD, Anniesland, Glasgow, Scotland, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Filed Sept. 30, 1919. Serial No. 327,490. 4 Claims. (Cl. 74—34.)



1. Hand driven variable speed mechanism consisting of a driving handle to be revolved by hand, a driven part,

change speed gearing in driving connection with the driven part, the change speed gearing having driving members, one for each different speed, friction clutch mechanism carried by the driving handle for disconnecting the driving members from or frictionally connecting them separately with the driving handle, and controlling means provided on the driving handle movable laterally relative to the axis of the handle for actuating the friction clutch mechanism, for the purposes set forth.

1,348,691. SHEAVE-CARRIER. ROBERT H. BEAUMONT, Philadelphia, Pa., assignor to R. H. Beaumont Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 13, 1920. Serial No. 373,628. 3 Claims. (Cl. 254—190.)



1. The combination of a pivoted carrier having a weight at one end; a sheave at the opposite end; and a swivel connection between the sheave and the body of the carrier.

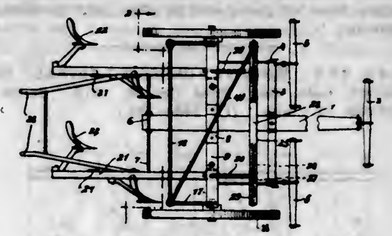
1,348,692. SUCKER-ROD JOINT. CYRUS BELL, Whittier, Calif. Filed July 14, 1919. Serial No. 310,757. 2 Claims. (Cl. 287—105.)



1. The combination of sucker-rod sections having intermeshing transverse surfaces formed at their adjoining ends and contoured to form, when said surfaces are intermeshed, a tapered cylindrical rod portion having a screw-thread at its larger end, and a sleeve having a tapered bore engaging said tapered rod portion and having an internal screw-thread at the larger end of said bore engaging the screw-threaded portion of the rod.

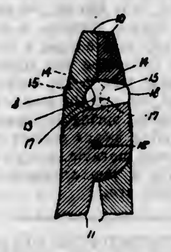
1,348,693. WALKING-CULTIVATOR. DAVID BLASER, Taylor Ridge, Ill. Filed Jan. 12, 1920. Serial No. 350,834. 3 Claims. (Cl. 97—35.)

1. In a straddle-row walking cultivator, the combination of an arch frame, outer and inner upright rock-shafts journaled in said frame, the outer shafts having rearwardly directed arms at their upper ends, and the inner shafts having forwardly directed arms on their upper ends, spindles carried by the outer rock-shafts, ground wheels mounted on said spindles, beams connected and adapted to swing laterally with the inner rock-shafts and equipped with ground-working devices, a transverse rod connecting the rearwardly directed arms of the outer rock-shafts, a transverse spring carrier connected with the arms of the inner rock-shafts, springs disposed in said carrier and at opposite sides of the arms of the inner



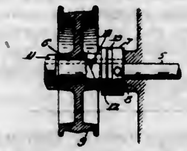
rock-shafts, and a rod connected to the said spring carrier adjacent to one end thereof and also connected to the arm of the outer rock-shaft remote from said end.

1,348,694. WIRE CUTTING AND TWISTING TONGS. JOSEPH B. BRADLEY, Miami, Fla. Filed Dec. 6, 1919. Serial No. 342,931. 1 Claim. (Cl. 7—8.)



A device of the character described comprising a pair of members pivoted in crossed relation and formed at one end as handles and at their other ends as jaws, said jaws being provided with openings extending therethrough of wedge-shape, and removable blades associated with the jaws and wedge-shaped for conforming engagement with said openings, the inner ends of said blades being reduced and concaved and the outer ends of the blades projecting beyond the jaws.

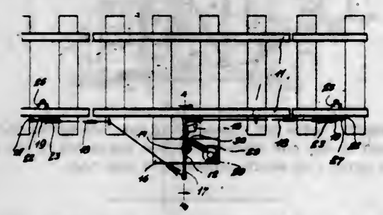
1,348,695. POWER-DRIVE FOR CREAM-SEPARATORS. ARTHUR NEIL BRECKENRIDGE, Rockford, Ill. Filed May 4, 1918. Serial No. 232,588. 1 Claim. (Cl. 192—8.)



A power pulley attachment for a cream separator or other machine adapted to be driven either by a hand crank or by power and having a projecting driving shaft, comprising a stub shaft having a bore at one end for the reception of said projecting shaft and permitting quick mounting and dismounting of the stub shaft, means for detachably securing the stub shaft to said projecting shaft, a pulley revoluble on said stub shaft, means preventing outward displacement of the pulley on the stub shaft, an annular collar or the like fixed to the inner end of the stub shaft, a sleeve loose on the stub snaft and interposed between said collar and the pulley, inclined surfaces between the hub of the pulley and said sleeve, and a friction surface between the sleeve and annular collar

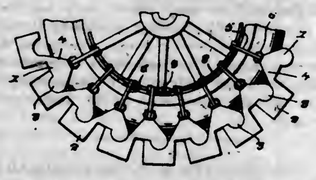
for permitting frictional engagement therebetween when the sleeve is moved longitudinally on the stub shaft by reason of rotation of the pulley in such direction as will cause its inclined faces to press inwardly the complementary faces on the sleeve to effect said frictional engagement.

1,348,696. HIGHWAY-CROSSING SIGNAL. OSCAR BROWN, Lula, Ga. Filed Oct. 6, 1919. Serial No. 328,939. 1 Claim. (Cl. 246—294.)



A railway crossing signaling device having a base, a standard revolubly mounted upon the base and provided with a lateral signaling arm and a depending spindle, a spring connected with said spindle for yieldingly holding the standard in its normal position, a cross arm carried by the standard, a trip arm having a roller arranged in the path of wheels traversing the track rails, yielding means for holding said trip in its normal position, connections between said trip and the cross arm of the standard and having cushioning spring attachment to the latter, and an audible signaling means carried by the base and having an operating arm movable in a plane perpendicular to and provided with a cam arranged in the path of movement of said cross arm.

1,348,697. TRACTION-GRIPPING DEVICE. ROBERT L. CARLINE, Pittsburgh, Pa. Filed Mar. 6, 1920. Serial No. 363,749. 4 Claims. (Cl. 152—16.)



1. In a device of the character described, a plurality of members adapted to fit about a tire each provided at one end with an outwardly projecting block having a transversely extending substantially semi-cylindrical recess and at its other end with a transversely extending rounded element adapted to fit into the recess of the succeeding member, and means for securing said members in assembled condition about the tire.

1,348,698. CONSTRUCTION OF ILLUMINATING DEVICES. WILLIAM THOMAS COULSON, Anerley, London, England. Filed Apr. 11, 1919. Serial No. 289,360. 5 Claims. (Cl. 240—106.)



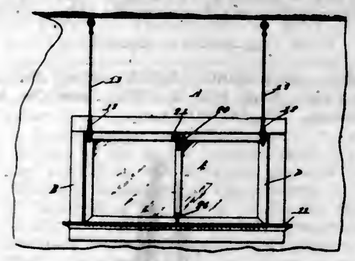
5. An illuminating device comprising spaced prisms of a length much greater than their width, a lens connecting said prisms and a source of light positioned in the space between said prisms and adjacent said lens.

1,348,699. BUTTON-SNAP. LEILA S. DAVIS, Madison, Fla. Filed Mar. 28, 1920. Serial No. 368,104. 3 Claims. (Cl. 24—106.)



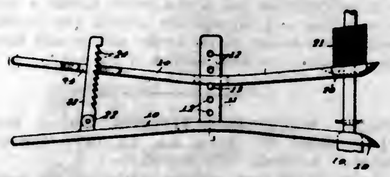
1. Securing means for a button provided with a plurality of holes comprising a wire member bent and rebent at one end to pass through opposite ones of the holes in the button and having its other end terminating in a tapered head defining a retaining shoulder, in combination with a base member having a hole through which said head is adapted to pass, a spring within said base member having its arms crossed and recrossed to define a loop engageable about said wire member beneath said shoulder, and means whereby said loop may be expanded to permit withdrawal of said head.

1,348,700. WINDOW CONSTRUCTION. JESSE F. ETCHISON, Clovis, N. Mex. Filed Sept. 30, 1919. Serial No. 327,369. 2 Claims. (Cl. 20—53.)



1. In combination with a window frame and a sash adapted to fit within the same, a mounting system for the sash comprising hangers disposed at the upper corners of the sash, cords connected with said hangers and secured at a point above the frame whereby to support the sash in inwardly inclined position with the bottom rail thereof engaged upon the sill of the frame, a lifter member at the lower rail of the sash, a securing member on the lower rail of the sash, and a securing member at the top of the frame engageable by said first named securing member for holding the sash in inwardly extending horizontal position at the top of the frame.

1,348,701. VALVE-SPRING COMPRESSOR. CYRUS EVERITT, Sidney, Ill. Filed June 23, 1919. Serial No. 306,036. 1 Claim. (Cl. 29—87.1.)



A valve spring compressor comprising a base, a standard rising therefrom and fixed to the base, said standard having a plurality of openings, a pivot adapted to be interchangeably fitted in said openings and to project beyond the opposite sides of the standard, a lever of a length substantially equal to that of the base, said lever being curved from the ends and having an elongated slot in its central lowermost portion for the reception of the standard, said lever resting upon the pivot at opposite sides of the

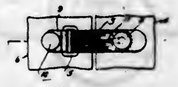
standard and capable of rocking movement thereon, one and corresponding extremities of the base and said standard being oppositely dished and forked, a rack bar rising from the base in parallelism with the standard, said rack bar being pivotally mounted upon the base, a lever having a second elongated slot for the reception of the rack bar, and the edge of the latter mentioned slot being adapted to engage the teeth of said bar for holding the lever fixed in a given position.

1,348,702. MACHINE-GUN AND OTHER FIREARM. HUGH WILLIAM GABBETT-FAIRFAX, London, England. Filed May 18, 1920. Serial No. 382,341. 3 Claims. (Cl. 42—75.)



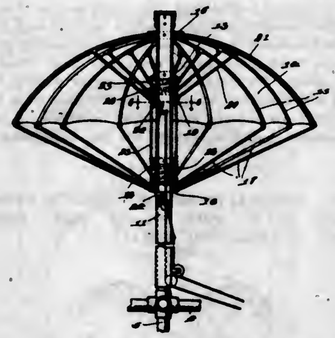
2. A firearm comprising a framing, a breech piece carried thereby and formed with a socket, a barrel detachably mounted in the breech socket, said barrel having external grooves or slots, and the breech piece having internal grooves or slots forming seatings for pairs of wedges, wedges inserted in said grooves or slots, one acting face of each pair of combined wedges bearing against the corresponding face of the slot in the barrel and the other bearing against the corresponding face of the slot in the breech piece, and means for tightening and slacking the wedges.

1,348,703. SHOE-FASTENER. PHILOMENE FERRIS, Westwood, Calif. Filed Jan. 23, 1920. Serial No. 353,442. 2 Claims. (Cl. 24—203.)



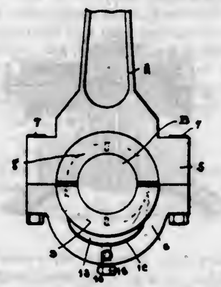
2. A shoe fastener, comprising a loop, means for securing the loop to the outer surface of one side of the shoe, a flexible connecting member having one end secured to the outer surface of the other side of the shoe, and means for removably securing the free end of the flexible member after it is passed through the loop.

1,348,704. SAFETY ATTACHMENT FOR AIRPLANES. RALPH P. FOX, Harrisburg, Pa. Filed Sept. 5, 1919. Serial No. 321,746. 3 Claims. (Cl. 244—21.)



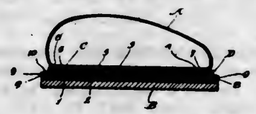
1. An attachment for airplanes comprising a plurality of collapsible parachutes, spring means for normally holding the parachutes in open position, latching means for each parachute, for preventing the same from closing, a lever, flexible means for connecting the lever with the latch means of all the parachutes to release the same, a drum, flexible means connecting the drum with the parachutes for simultaneously collapsing the parachutes when the drum is rotated, a handle on the drum and ratchet mechanism for the drum.

1,348,705. QUICK-ADJUSTING BEARING. WALTER M. FRANCE and LEROY B. JONES, Meshoppen, Pa. Filed Aug. 12, 1919. Serial No. 316,972. 1 Claim. (Cl. 64—55.)



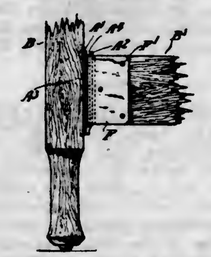
A quick adjusting bearing for shafts comprising in combination with a box and cap therefor, a pair of semi-cylindrical babbitts, each having an outer peripherally grooved edge to interfit the box and cap and adapted to embrace a shaft and spaced apart thereby, a pin carried by the box and engaged in one of the babbitts, a follower fitted in the cap and working against the other babbitt, a pin carried by the follower and engaged in said other babbitt, an adjusting screw carried by the cap and working against the follower and having its inner end seated in said follower, and means engaged in the cap to co-act with the adjusting screw to lock the same in adjusted position, the follower being seated in the outer peripherally grooved edge of the babbitt adjacent thereto.

1,348,706. FLEXIBLE AND RESILIENT SHOE-SOLE. JOHN B. FRECHETTE, Valparaiso, Ind. Filed Dec. 11, 1919. Serial No. 344,066. 4 Claims. (Cl. 36—44.)



1. A shoe sole of the type described including an inner and an outer sole, a rubber layer between the inner and outer soles, a cork layer adjacent the rubber layer, a canvas layer adjacent the cork layer, and means secured to the outer sole and the shoe upper for retaining the layers in place.

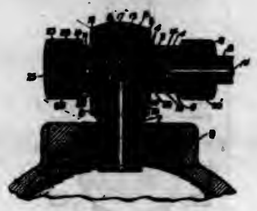
1,348,707. POST AND SIDE BAR OF BEDS, FURNITURE, AND THE LIKE. STANLEY BENJAMIN GAMBLE, West Perth, Western Australia, Australia. Filed Dec. 13, 1919. Serial No. 344,725. 3 Claims. (Cl. 5—55.)



1. A bed rail fastener, comprising a bracket adapted to be attached to a post and having vertical spaced members,

one of which is formed with a tapering tongue and a clip adapted to be attached to a rail and having a tapering opening corresponding to the tongue of the bracket.

1,348,708. STEMLESS SELF-CLOSING VALVE FOR HIGH-PRESSURE TANKS. EDWARD E. GARLAND, New York, N. Y. Filed June 26, 1919. Serial No. 306,927. 3 Claims. (Cl. 251—78.)



1. A stemless high pressure valve comprising a casing having a chamber therein, a threaded neck extending from said casing having a passageway extending therethrough in communication with said chamber, a restricted outlet passage at one end of said chamber, an annular beveled portion connecting the chamber with the restricted passage and forming a valve seat, a plug threaded in the other end of said chamber having a passage therethrough communicating with said chamber, a recess in one end of said plug, a valve body having one end thereof guided within said recess and the other end thereof guided within said restricted passage, a portion of the end guided within the recess of the plug being cut away to form a passage at all times between the passage within the plug and the chamber of the valve, the other end of the valve body guided within the restricted passage having a passage therein extending laterally of the valve body and through its end said passage being normally closed by the walls of the restricted chamber, and a beveled annular shoulder on said valve body adapted to be seated on the annular beveled portion of the valve chamber.

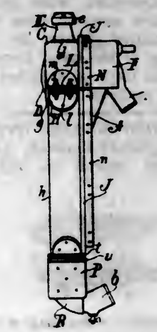
1,348,709. COMBINATION-STOVE. CHARLES M. GENTHNER, Reading, Pa., assignor to The Reading Stove Works, Orr, Painter & Co., Reading, Pa., a Corporation of Pennsylvania. Filed Sept. 30, 1919. Serial No. 327,484. 7 Claims. (Cl. 126—36.)



1. The combination in a stove, of a pivoted burner structure, a valve controlling the flow of gas to the burner, a flame deflecting plate located above the burner and means actuated by the valve for turning the burner and elevating the deflecting plate when gas is admitted to the burner.

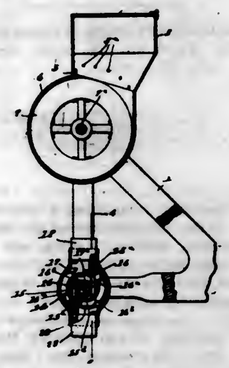
1,348,710. AUTOMOBILE-RADIATOR CASING. MARTIN GRABER, Iowa City, Iowa. Filed Feb. 12, 1920. Serial No. 358,113. 3 Claims. (Cl. 180—68.)

1. In a radiator casing, the combination with a sheet metal top portion having a filler tube collar and a front apron, the said top portion having an externally projecting stiffening corrugation extending from side to side thereof and in rear of the said collar, of vertical sheet metal side members each having a stiffening corrugation extending longitudinally and in line with the said corrugation of the top when the parts are assembled, means for securing the sides and top together, a bottom member comprising angular ends and a sheet metal trough-like member connecting the said ends, the said trough having



a depending, curved, hollow portion open rearwardly to receive the outflow pipe of a radiator, and means for connecting the sides and the said ends of the bottom.

1,348,711. NAILING MECHANISM. JOHN H. GIBSON, Little Falls, Minn. Filed Sept. 15, 1919. Serial No. 323,688. 3 Claims. (Cl. 1—45.)



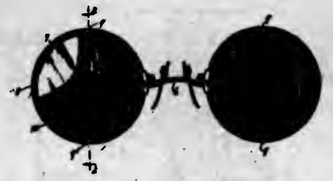
3. In a nailing mechanism, the combination of a frame, a revoluble hammer casing mounted therein and carrying magnetized hammer heads, means for delivering nails one by one and head foremost to the upper most head of the hammer, means for rotating the hammer casing through a part of a revolution caused by the striking of a hammer head against an object, and means operable by rotation of the hammer casing to actuate the nail-delivering means.

1,348,712. SPECTACLE-SHADE. KURT R. GITTERMAN, Brooklyn, N. Y. Filed Oct. 22, 1919. Serial No. 332,387. 2 Claims. (Cl. 88—41.)



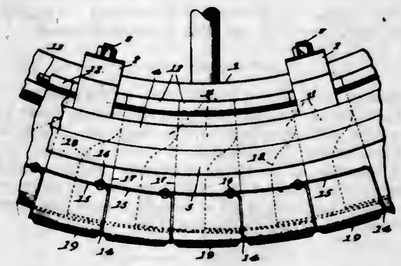
1. A detachable shade for spectacles consisting of a thin flexible transparent member adapted to fit over the lens, and integral hooks formed on said member adapted to engage the edges of the lens for retaining the same in place.

1,348,713. SPECTACLES. KURT R. GITTERMAN, Brooklyn, N. Y. Filed Feb. 17, 1920. Serial No. 359,292. 5 Claims. (Cl. 88—41.)



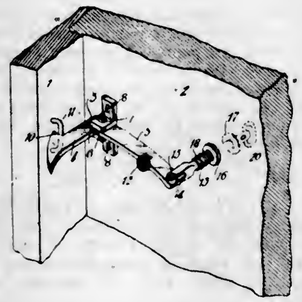
5. A flexible binder rim for lenses, comprising a rim adapted to be snapped in position over the perimeter of a lens, and diametrically opposed hooks formed on said ring for the reception of a protective shade, whereby to position the same over the lens.

1,348,714. TIRE. THOMAS GORDON, Vancouver British Columbia, Canada. Filed Nov. 29, 1919. Serial No. 341,447. 3 Claims. (Cl. 152—10.)



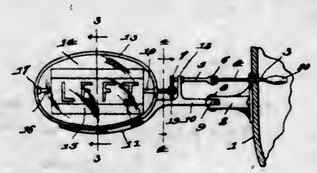
1. A tire comprising clips adapted to straddle a wheel rim from within and to be connected to said rim, annular stepped metallic members surrounding and opposed to the ends of the clips and arranged in lapped relation thereto, annular stepped buffers surrounding and opposed to the outer edges of the said members and lapped therewith, lapped metallic sections having eyes at their ends opposed to the inner edges of the annular members, and endless metallic rings occupying said eyes and arranged within the clips.

1,348,715. GATE-LATCH. EDWIN J. GRENDING, Colfax, Ill. Filed Jan. 31, 1916. Serial No. 75,371. 1 Claim. (Cl. 292—127.)



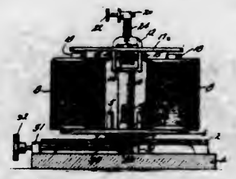
A latch of the character described, comprising a latch member of substantially bell crank shape having one arm of hook form to provide a latch portion and the other arm constituting an operating portion, a bracket pivotally supporting the latch member adjacent to the point of juncture of the latching and operating portions thereof and adapted to be secured to a movable part, a staple adapted to be secured in a fixed part and engageable by the latch portion of said latch member, an actuating rod adapted to be slidably fitted through the movable part and having a forked extremity straddling the operating portion of said lach member, a pivot connecting the forked extremity of the rod to the free extremity of the latch portion, a spring active upon the rod and the movable part for normally sustaining the latching portion of the latch member in position for positive engagement with the staple, a knurled enlargement formed on the operating portion of the latch member spaced from the end pivotally connected with the rod and on the outermost edge thereof.

1,348,716. DIRECTION-SIGNAL. DAVID I. GRIFFITHS, Frostburg, Md. Filed Nov. 24, 1919. Serial No. 340,355. 1 Claim. (Cl. 116—48.)



The combination in a direction signal of the side wall of an automobile body, said wall having a transverse opening therein, a bracket on the outer side of said wall below said opening and having a knuckle connected in hinged manner to the knuckle of the bracket, a casing superimposed upon and connected to said support and having front and rear openings, a rotatable sign-bearing body journaled in the casing and having a trunnion extended through the inner end of the casing and journaled in the support and equipped with a spur gear, a shaft section extended through the opening in the wall of the automobile body, and a shaft section connected by a hinge with the first-named shaft section and having a pinion intermeshed with said spur gear, the pintle of said hinge being disposed in vertical alinement with the pintle connecting said knuckles.

1,348,717. TELEGRAPH INSTRUMENT. JOSÉ VARGAS GUERRA, Santiago de Cuba, Cuba. Filed Mar. 31, 1920. Serial No. 370,287. 5 Claims. (Cl. 175—336.)

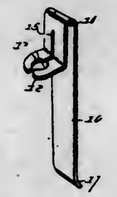


1. A telegraph instrument, comprising a base, a bridge above the base, magnets supported on the bridge, an armature above the magnets, means for guiding the vertical movement of the bridge, and means for adjusting the bridge vertically.

1,348,718. SAFETY INSTRUMENT-HOLDER. WILLIAM R. HOFFMANN, New York, N. Y. Filed Sept. 9, 1919. Serial No. 322,652. 3 Claims. (Cl. 24—3.)

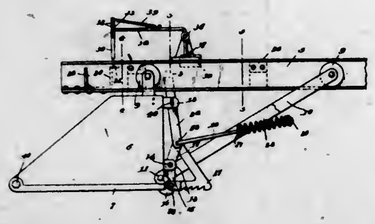
1. A safety attachment for watches, pedometers, ammeters, and similar measuring instruments having a yield-

ing tongue and means for securing the same to an instrument casing, one end of the tongue being slitted longi-



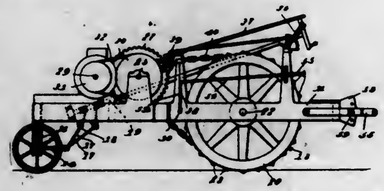
tudinally and off-set at an angle to form complementary jaws having registering seats.

1,348,719. STEAM-SHOVEL TRIP. CARLEY E. HOUGHTON, Mulberry, Kans. Filed Jan. 20, 1920. Serial No. 352,736. 3 Claims. (Cl. 212—137.)



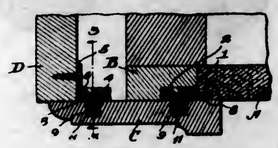
1. In combination with a boom, a dipper movable longitudinally thereon, a hinged door closing the bottom of the dipper and a pivoted spring influenced latch for locking the door closed; of tripping means for releasing the latch, including a rocker bar pivoted to the latch, and pivoted to the dipper, a weight influenced beam pivotally connected to the boom, an adjustable contact member secured on the beam, guide means for the contact member carried by the boom, and said contact member designed to be brought in the path of engagement with the upper end of the rocker bar when the boom and buckets have been swung to an upward inclination and the bucket has been moved outward of the boom to bring the rocker bar in engagement with the contact member.

1,348,720. TRACTOR. LUDWIG JOHNSON, Helena, Mont. Filed Nov. 10, 1919. Serial No. 336,775. 3 Claims. (Cl. 180—25.)



1. A tractor comprising a frame, having spaced side and end members, steering wheels, a comparatively large tractor wheel journaled between said side members and including end disks and an intermediate groove disk, ground engaging elements connecting said disks, a motor driven shaft, pulleys fixed upon said shaft, said pulleys being of different diameters, a drive chain trained over said intermediate disk and one of said pulleys, a lever mounted for vertical and horizontal swinging movement, an eye carried by one end of the lever through which the adjacent run of the chain passes, said chain normally holding one end of the lever elevated, said lever being operable to shift the chain from one of said pulleys to the other to vary the speed of the tractor.

1,348,721. FASTENER FOR TRIMS AND JAMBS. WILLIAM K. KETTERINGHAM, Jr., Jackson, Miss. Filed Nov. 20, 1917. Serial No. 202,957. 1 Claim. (Cl. 20—12.)

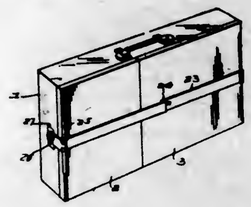


The combination with a wall, jamb and trim, a plate set in the wall and having openings connected by a slot for receiving the head of a screw, an angled plate one member of which is secured to the back of the jamb and the other of which is slotted with screw-head receiving openings at the ends of the slot, and screw carrying plates secured to the back of the trim, the screws carried by said plates having projecting heads adapted to engage the slots respectively of the first mentioned plates.

1,348,722. PURIFICATION OF CARBAZOLE. WILLIAM KIRBY, London, England, assignor to South Metropolitan Gas Company, London, England. Filed Dec. 9, 1919. Serial No. 343,665. 1 Claim. (Cl. 23—24.)

A process of purifying carbazole which consists in causing a solution of the crude carbazole in sulfuric acid to absorb water from an atmosphere until the carbazole has separated from the solution.

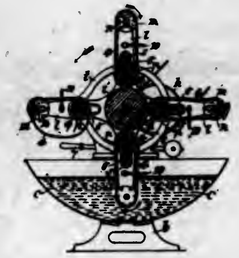
1,348,723. GOCART-SUITCASE. WILLIAM HENRY LESTER, New York, N. Y. Filed Oct. 25, 1917. Serial No. 198,437. 4 Claims. (Cl. 280—37.)



1. In a device of the kind described, a casing, a folding cover member therefor, a pair of wheels, supports on which the wheels are journaled, the said supports being hingedly mounted with reference to the casing, and means for shifting the position of one of the hinged supports, whereby the two wheels may be axially alined or thrown out of axial alinement to permit the one being folded down beside the other.

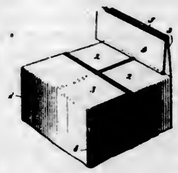
1,348,724. MACHINE FOR DYEING, WASHING, SCOURING, SIZING, BLEACHING, AND MERCERIZING YARN IN HANK FORM. JOSEPH SPENCER LORD and SAM SPENCER LORD, Manchester, England. Filed Apr. 11, 1919. Serial No. 289,159. 5 Claims. (Cl. 8—17.)

1. A machine for dyeing, washing, scouring, sizing, bleaching and mercerizing yarn, comprising a frame, a driving shaft mounted thereon, a central roller secured to, and a set of intermittently rotatable radial arms mounted on said shaft near each end thereof, a pair of horizontally projecting rotary yarn carrying members on each radial arm, the inner members being in frictional con-



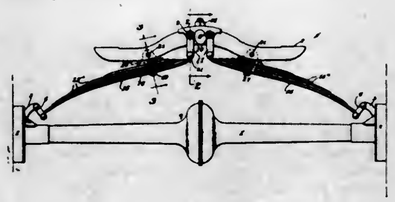
tact with said central rollers and a liquid tank located below each set of said arms and yarn carrying members, for the purpose specified.

1,348,725. COLLAPSIBLE BOX. LUNDY SHANNON LUNDY, Niagara Falls, Ontario, Canada, assignor to A. van den Boom and J. W. Slate, Walnut Cove, N. C. Filed Oct. 16, 1919. Serial No. 331,083. 1 Claim. (Cl. 229—43.)



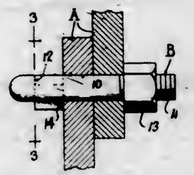
A collapsible box provided with inwardly folding sealing flaps upon opposite parallel walls and inwardly folding duplex sealing flaps upon the other opposite parallel walls, such duplex sealing flaps being provided with an intermediate foldable joint extending substantially along a central line parallel with the line of union with the wall and said foldable joints meeting along the center and said flaps covering the entire surface at one end of the box when sealed.

1,348,726. VEHICLE-SPRING. MICHAEL M. MCINTYRE, Cleveland, Ohio, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 29, 1915. Serial No. 42,502. 16 Claims. (Cl. 267—41.)



1. The combination, with an axle, of a member spaced from and extending in the same direction as the axle, a pair of springs, means connecting one end of each spring to the axle, means connecting the opposite end of each spring to the central portion of said member, at least one of such connections being a flexible connection, and means connecting an intermediate portion of each spring to said member.

1,348,727. BOLT. JAMES R. MCKINLAY, Seattle, Wash. Filed Feb. 23, 1918. Serial No. 218,758. 1 Claim. (Cl. 85—9.)



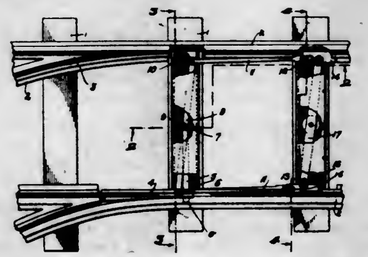
The combination with a headless bolt threaded at one end, of a member having inclined plane side faces to provide a transversely tapered key adapted to be removably positioned in a slot extending longitudinally of the bolt, said bolt having inclined side walls to provide a transversely tapered opening.

1,348,728. MEDICATED PESSARY. LEON MARTOCCI-PISCULLI, New York, N. Y. Filed Oct. 8, 1919. Serial No. 329,263. 5 Claims. (Cl. 128—260.)



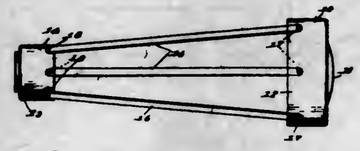
1. A pessary, including a stem formed with a central bore extending throughout its entire length, and a container formed with an opening, said stem being adapted to project through the container opening, said stem being provided with means permitting of a communication between the container and the bore of said stem.

1,348,729. SWITCH-LOCK. PHILIP H. MYERS, Philadelphia, Pa. Filed July 23, 1919. Serial No. 312,717. 5 Claims. (Cl. 246—337.)



1. A switch lock, comprising a switch, including rails, a movable point, a bar secured to such point and adapted to hold or move the same, a rocker arm for shifting such bar, and means associated with the outer ends of the rocker arm for normally preventing any longitudinal movement of said bar.

1,348,730. FOLDING TELESCOPE. EMIL NORMAN, Holmquist, S. D. Filed Oct. 20, 1919. Serial No. 331,987. 2 Claims. (Cl. 88—32.)

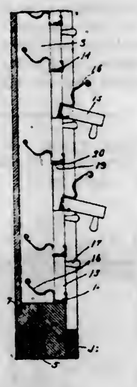


2. A folding telescope comprising an open ended objective frame having a lens therein, an open ended eye-piece frame of less diameter than the objective frame and having a lens therein, and a plurality of spring strips pivoted at one end within the first named frame and pivoted at their other ends within the second named frame, said strips normally holding said frames in spaced relation, partial relative rotation of said frames resulting in twisting of said strips into spiral form with said second named frame disposed within said spiral and within said first named frame.

1,348,731. PROCESS OF DISSOLVING CELLULOSE. ZENO OSTENBERG, San Jose, Calif., assignor to International Cellulose Company, Reno, Nev., a Corporation of Nevada. Original application filed Jan. 31, 1916, Serial No. 75,356. Patent No. 1,218,954, dated Mar. 13, 1917. Divided and this application filed Nov. 1, 1916. Serial No. 128,962. 4 Claims. (Cl. 127—10.)

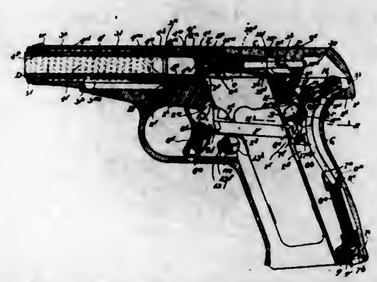
4. In the process of dissolving cellulose in highly concentrated hydrochloric acid the replacement of part of the hydrochloric acid by concentrated sulfuric acid at a ratio of 1½ parts of concentrated sulfuric acid to take the place of one part of hydrogen chlorid at a temperature below 50° C.

1,348,732. DRILL-CABINET. FRANK M. PEARMAN, Watertown, S. D. Filed Apr. 4, 1919. Serial No. 287,572. 1 Claim. (Cl. 211—8.)



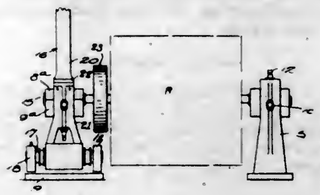
In a drill cabinet, a flat rectangular frame, one flat side of said frame closed, the opposite flat side of said frame provided with downwardly opening horizontally disposed doors, each of said doors provided with a sheet metal plate facing the bottom edge thereof and extending upwardly on the outer face of the door and embedded in a groove in the outer face of the door, said metal plates extending inwardly from each of said doors and forming a trough shaped retainer for a drill, and a rod at the lower outer corner of each door and within said metal plate and forming the hinge of the door.

1,348,733. AUTOLOADING FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Filed July 30, 1915, Serial No. 42,774. Renewed July 17, 1919. Serial No. 311,689. 262 Claims. (Cl. 42—3.)



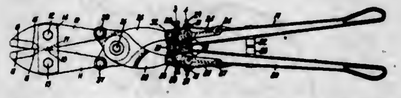
36. In an auto-loading firearm, in combination, a frame having guides for a power-slide and for a power-slide-actuating breech-lock, and having an abutment-face in position for limiting the power-stroke of, and thereby initially stopping said block; a sliding-and-tilting breech-block in position and arranged for having a non-tilting power-stroke and provided with a power-stroke-limiting face for engaging said stroke-limiting abutment-face of the frame at the termination of the power-stroke, and having a power-transmitting face for engaging and actuating the power-slide during the power-stroke thereof; and a series of coacting block-actuating devices on and connecting the slide and breech-block, and in position and arranged for only coming into operative engagement after the power-slide has moved backward through a distance and a time-interval for allowing the projectile to be discharged and the gas pressure to be reduced subsequently to the initial stopping of the breech-block, and also arranged for first tilting and then further retracting the breech-block along with the power-slide through a loading-stroke.

1,348,734. SAND-REEL SUPPORT. MERL R. PONTIUS and ALVER L. WEST, El Dorado, Kans. Filed May 31, 1919. Serial No. 301,005. 1 Claim. (Cl. 64—52.)



In a well drilling rig constructed entirely of metal, a drive wheel, a stationary and a pivoted standard, each having an opening to receive a shaft bearing, a sectional shaft bearing mounted in each opening, said opening being of a size to permit a relatively wide range of adjustment of the bearing therein, means for supporting each bearing in adjusted position, the pivoted standard being composed of detachably connected sections separably connected at the opening therein, a sand reel shaft mounted in said bearings, a friction pulley carried by said shaft, a ball and socket joint between the shaft and the bearing of said stationary standard to allow a limited swinging movement of the shaft sufficient to permit of the adjustment of the friction pulley carried by the shaft to cause it to engage said drive wheel.

1,348,735. CUTTING-TOOL. HENRY K. PORTER, Brookline, Mass. Filed Dec. 20, 1918. Serial No. 267,579. 3 Claims. (Cl. 81—199.)

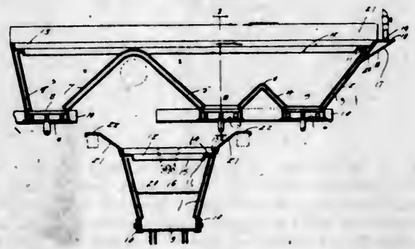


1. A cutting tool having, in combination, a pair of cutter levers, a pair of handle levers pivotally connected to each other and an adjustable member on each of said handle levers and forming, in effect, a part thereof, means to adjust said members toward and away from each other and a pair of levers pivotally connected together and crossing each other intermediate said cutter and handle levers, the opposite ends of said intermediate levers being pivotally connected to said cutter levers and to said adjustable members, respectively.

1,348,736. PRODUCTION OF SULFURIC ACID. KENNETH BINGHAM QUINAN, Somerset West, Cape Province, South Africa. Filed Mar. 25, 1919. Serial No. 285,020. 3 Claims. (Cl. 23—1.)

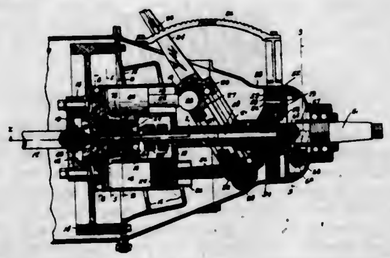
1. The process of producing sulfuric acid involving the intervention of nitric oxid which comprises conducting the process as a whole or certain stages of the process by distributing the liquids entering into reaction with gases, over the surface of a permeable diaphragm so as to form a layer of liquid thereon, and causing the gases entering into reaction with the liquid to pass through the layer of liquid and to support the liquid above the diaphragm.

1,348,737. STEAM-BOILER ASH-PAN. JASPER N. RALSTON, Fitzgerald, Ga. Filed Feb. 19, 1918. Serial No. 218,122. 5 Claims. (Cl. 110—171.)



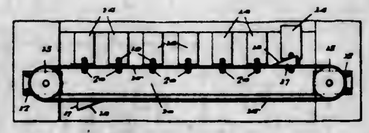
5. In an ash pan of the class described having interiorly arranged water spaces provided with open upper ends, a shield arranged to extend over the open ends of the water spaces, whereby cinders or the like will be prevented from entering said spaces.

1,348,738. POWER-TRANSMISSION APPARATUS. ELWYN M. RAYBURN and ALDEN G. RAYBURN, Sausalito, Calif. Filed May 20, 1918. Serial No. 235,517. 22 Claims. (Cl. 60—53.)



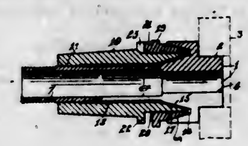
1. A variable speed power transmission apparatus comprising a driving member, a driven member, a fluid pump carried by the driven member, means on the driving member for operating said pump, and a fluid operated motor carried by the driven member and receiving fluid from said pump and applying power to the driven member.

1,348,739. SIGN. WILLIAM REID, Atlanta, Ga. Filed July 1, 1919. Serial No. 307,932. 5 Claims. (Cl. 40—125.)



1. A sign comprising an elongated member having a plurality of pockets open at one end, letter blocks slidably fitted in each pocket, and horizontally movable means operable to elevate said blocks within said pockets at predetermined intervals, said blocks gravitating to normal position when released.

1,348,740. CHUCK. GEORGE REISINGER, Rochester, N. Y. Filed Mar. 12, 1919. Serial No. 282,232. 12 Claims. (Cl. 279—50.)



1. A lathe chuck comprising a collet having spring jaws formed with clamping faces for engaging the exterior of a work piece and also with clamping faces for engaging the interior of a work piece, and two devices selectable at will, one for moving the spring jaws outwardly to engage the interior of a work piece and the other for moving the spring jaws inwardly for engaging the exterior of a work piece.

1,348,741. GELATINIZATION OF CELLULOSE NITRIC ESTERS IN THE MANUFACTURE OF EXPLOSIVES. WILLIAM RINTOUL and THOMAS JOSEPH NOLAN, Stevenston, Scotland, assignors to Nobel's Explosives Company Limited, Stevenston, Ayrshire, Scotland. Filed May 19, 1919. Serial No. 298,135. 11 Claims. (Cl. 52—3.)

1. Nitrocellulose containing explosives for propellent, blasting or detonant purposes, having as ingredients at least one member of the sub-class of urethanes characterized by containing attached to the nitrogen atom two aromatic groups, one of which is a benzyl group.

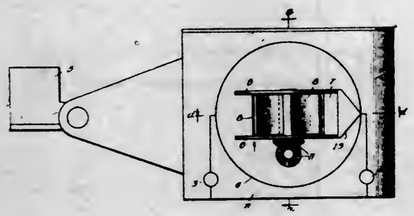
1,348,742. LEVEL AND TUBE-HOLDER THEREFOR. WILLIAM A. ROESKE, McKee City, N. J. Filed Oct. 16, 1918. Serial No. 258,373. 1 Claim. (Cl. 33—211.)



As a new article of manufacture a spirit level tube holder comprising a single piece of tubular material having a central sight opening and having the end portions thereof provided with diametrical slits and longitudinal slits communicating with the diametrical slits forming partially severed pieces integral with the tubular portion, said pieces being flattened out with portions ex-

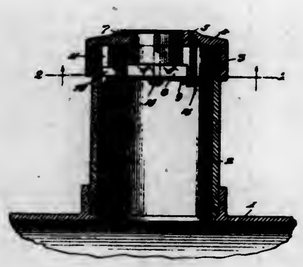
tended farther to one side of the tubular portion than to the other, said pieces being bent at angles to said tubular portion and away therefrom.

1,348,743. FLYING-MACHINE. ALEXANDER B. RONEY, Chicago, Ill. Filed Dec. 8, 1919. Serial No. 343,369. 1 Claim. (Cl. 244—16.)



An aeroplane fuselage in combination, a one-piece propeller and motor assembly comprising lateral propeller frames, each frame pivotally shouldered to opposite sides of said fuselage, worm-gear adjusting means for said propeller frames, paddle wheel propellers pivotally mounted in said frames and driving means for said propellers.

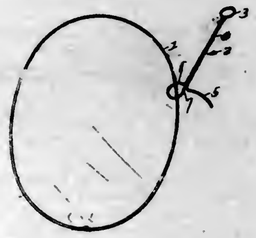
1,348,744. TANK-LOCK. FREDERICK HENRY RUNDALL, Fall River, Mass. Filed Sept. 5, 1919. Serial No. 321,762. 1 Claim. (Cl. 70—90.)



The combination with a tank having an outer externally threaded cylindrical spout thereon and a threaded cap adapted to be screwed over the end of the spout of a series of lugs fixed to the inner face of the spout, a plate spaced from the top of the cap, a bolt casing carried by the plate, a lock casing carried by the cap, a sliding bolt in the bolt casing, a rotary barrel in the lock casing having a key hole therein, a lever operated by the barrel and operating the sliding bolt to move it into engagement with said lugs, a spring holding the lever in its extreme positions, said barrel adapted to be operated by an operating means inserted through the top of the cap and said cap adapted to be locked on the spout when either partially or entirely screwed home.

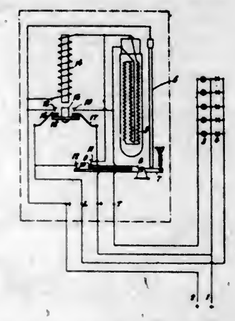
1,348,745. HOOP-ROLLER. CHARLES W. RUSSELL, Sioux Falls, S. D. Filed Nov. 21, 1918. Serial No. 263,545. 2 Claims. (Cl. 46—38.)

1. A device of the character described formed from a single piece of metal bent to provide a handle ring, a twisted shank continuing from the handle ring, a curved batting arm projecting at right angles from the longitudinal axis of the shank, and a resilient open ring



formed at the end of the shank and projecting in a direction opposite the arm.

1,348,746. SWITCH FOR THE CLOSING OF AN ELECTRIC CIRCUIT FOR A CERTAIN PERIOD. HERMAN AXEL SCHEPELER, Copenhagen, Denmark, assignor to A/S Mekano, Copenhagen, Denmark. Filed Oct. 30, 1918. Serial No. 260,348. 14 Claims. (Cl. 161—1.)



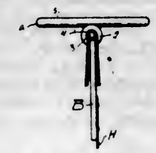
1. In an electric light system, a light circuit; an electro-magnetic device for closing said light circuit; an electric heating unit electrically connected with said electro-magnetic magnetic device; heat-controlled means controlling by its expansion and contraction the lighting-period; and means operated by said heat-controlled means for closing said light circuit independently of the closing of the circuit effected by said electro-magnetic device to permit the electro-magnetic device to assume a circuit opening position without opening the light circuit.

1,348,747. BELT-FASTENER. FRANK D. SCHILLING, Emington, Ill. Filed Jan. 2, 1920. Serial No. 348,862. 4 Claims. (Cl. 24—33.)



2. A belt coupling of the type described comprising end members for attachment to the terminals of a belt, plates having hinged loops thereon, hinge loops on the end members for alinement with the hinge loops on the plate members, pins removably carried in the hinge loops for securing the plates to the end members and to each other, resilient means for holding the pins in position in the loops, and removable substantially frusto-conically shaped facing members on the plate members between the loops for the purpose set forth.

1,348,748. CLEANING DEVICE. HERMAN T. SCHNEIDER, Garner, Iowa. Filed Feb. 13, 1920. Serial No. 358,488. 1 Claim. (Cl. 83—64.)



A cleaning device of the character described comprising a handle having a bearing on one end, a pair of wings, each wing having a knuckle on one side thereof, and a recess in its intermediate portion for the reception of a portion of said bearing, said knuckles being disposed in alinement with each other and the bearing, a pintle disposed through the bearing and the knuckles, and a rod secured to said bearing and extending beyond the bearing in right angular relation thereto, whereby pivotal movement of said wings in one direction is limited.

1,348,749. THERMOMETER. RALPH F. SCHNEIDER, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 16, 1917. Serial No. 142,594. 6 Claims. (Cl. 73—52.)



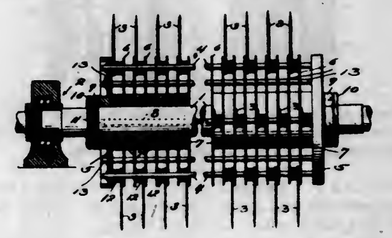
1. A thermometer comprising an insulating tube, a capillary tube therein, a scale member located in co-operative relation to said capillary tube and disconnected therefrom, and retaining devices carried by said scale member in spaced relation to each other lengthwise thereof, said devices extending between the scale member and said insulating tube under tension whereby the scale member is pressed toward said capillary tube.

1,348,750. CHOKE ATTACHMENT FOR SHOTGUNS. FRANCIS XAVIER SCHUSTER, Raber, Mich. Filed Dec. 19, 1918. Serial No. 267,523. 1 Claim. (Cl. 42—79.)



The combination with a gun barrel the outer diameter of which adjacent the muzzle end is gradually reduced to form a forwardly extending taper, the barrel being provided with longitudinally arranged slits in this tapered portion, of a correspondingly shaped sleeve telescoped over the tapered end and formed with an ear, an adjusting rod formed with a reduced portion passing loosely through the said ear and having a head abutting the ear on one side and the shoulder abutting the ear on the other side, a threaded socket fixed with reference to the stock and receiving the other end of the said rod which is correspondingly threaded, and manually operable means for rotating the rod whereby relative longitudinal movement between the barrel and the sleeve is effected for the purpose specified.

1,348,751. ROTARY CANE-CUTTER. WILLIAM SEARBY, Puunene, Hawaii. Filed Aug. 15, 1917. Serial No. 186,380. 2 Claims. (Cl. 146—30.)



1. In a rotary cane cutter, the combination with a rotor comprising a driven shaft, a pair of plates, constituting heads, mounted on the shaft, other plates arranged between the heads and disposed at regular intervals, spacing blocks fitted on the shaft between said plates and rods extending between the heads, the plates and heads having openings through which said rods are passed, relatively short and thin resilient knives singly arranged and loosely pivoted on the rods for movements in the directions of their planes, and a series of spacing rings for each knife loosely fitted on the respective rods on each side of said knife and between adjacent plates, said rings having sufficient relative looseness to permit a certain measure of lateral play of the knives.

1,348,752. EXTENSIBLE ELECTRICAL FIXTURE. ROY E. SHAW, Spearfish, S. D. Filed July 26, 1918. Serial No. 246,864. 1 Claim. (Cl. 173—367.)

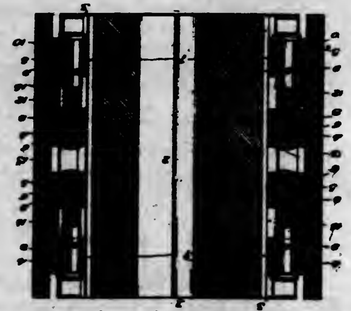


A device of the character described comprising a bracket, resilient strips carried by the bracket, insulating blocks carried by the strips, conical contact members carried by the blocks, a reel having an insulating axle provided with pointed terminals seated in the contact members, conductors having electrical connection with the contact members, and conductors wound upon the reel and extended through the axle into contact with the contact members to establish an electrical connection therewith.

1,348,753. CUTTER-HEAD. ELMER S. SHIMER, Milton, Pa., assignor to Samuel J. Shimer & Sons, Inc., Milton, Pa., a Corporation of Pennsylvania. Filed Feb. 3, 1920. Serial No. 356,108. 7 Claims. (Cl. 144—224.)

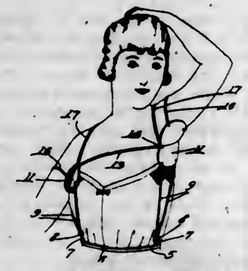
1. The combination with the body portion of a cutter head including head sides in which tracks or ways are

formed and having a bevel guide adjacent thereto, of a knife provided with dove-tailed webs on the base, the



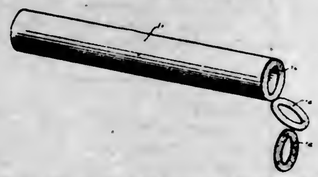
forward edge of the knife including the webs being beveled so that the edge fits the bevel guide, and means fitted to the tracks or ways for clamping the webs.

1,348,754. DRESS-SHIELD SUPPORTER. ETHEL SHRADER, Salina, Kans. Filed June 17, 1919. Serial No. 304,814. 1 Claim. (Cl. 2—34.)



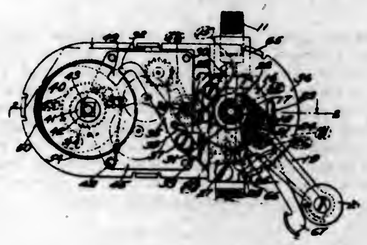
A dress protector comprising a pair of shields, a waist-band, tabs secured to said waist-band, eyelets carried by said tabs, a pair of elastic tapes secured to each of said eyelets, means carried at the ends of said tapes for detachably securing the same to the dress shields for retaining a half of the shields flat and in contact with the body of the wearer, elastic shoulder-bands adapted to be detachably secured to the dress shields midway intermediate the ends thereof, elastic arm-bands adapted to be detachably secured to one end of the shield whereby the one half of said shields are retained in contact with the arms of the wearer, a front-band and back-band adapted to encircle the body of the wearer for retaining the dress shields in close contact with the body of the wearer, said front-band and back-band being secured to said shields midway intermediate the ends thereof, and means for detachably connecting one end of said front-band to one of the shields.

1,348,755. CLUTCH-FACING AND PROCESS OF MAKING THE SAME. SUMNER SIMPSON, Bridgeport, Conn., assignor to The Raybestos Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 6, 1919. Serial No. 275,467. 9 Claims. (Cl. 154—2.)



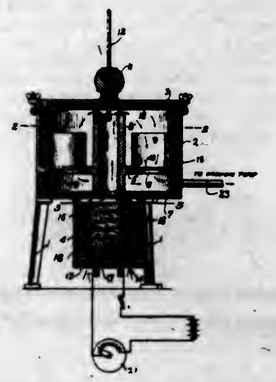
1. The process of making clutch facings which consists in winding sheets of asbestos paper under tension to form tubes, saturating the tubes in a hardening solution after winding, baking, and then slicing the tubes into rings to form clutch facings.

1,348,756. CONTROL MECHANISM FOR TENSION-OPERATED DEVICES. RAYMOND D. SMITH, Arlington, Mass., assignor to Tremont Products Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1917, Serial No. 160,876. Renewed Sept. 16, 1919. Serial No. 324,226. 9 Claims. (Cl. 161—9.)



1. The combination with a rotatable, tension-actuated device, of a manually operable, concentrically pivoted, and oscillatory, actuating member therefor, having abutting contact therewith and a spring connection thereto arranged yieldingly to maintain said abutting contact; a movable detent arranged normally to intercept said device and to yield for permitting the movement thereof; timing mechanism for governing said detent, operatively adjustable independently thereof, and including a reinforcing element for said detent, manually movable into and out of an inoperative position, and adapted automatically to be impelled to said position,—the said element being further arranged, only when displaced from its said position, to intercept said detent thereby to render the latter operative to arrest said device for a predetermined time; and a manually retractable latch for locking said member rotatively displaced from said abutting contact with said device when the latter is arrested by said detent, whereby tension is established in said spring connection for actuating said device upon release of the latter by said detent.

1,348,757. DRIER. GUILFORD L. SPENCER, Cambridge, Mass. Filed July 24, 1919. Serial No. 312,942. 6 Claims. (Cl. 34—39.)



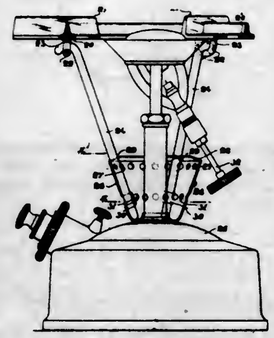
6. A drier, including a casing, a housing positioned below such casing, a tube extending from the lower end of such casing and terminating adjacent the top of the same and communicating at its lower end with the housing, a partition dividing the casing into an upper and a lower compartment, said partition being formed with openings, capsules positioned within such openings, and a source of suction connected to the lower of these compartments, said capsules seating against the opening in said partition in such a manner as to form an air-tight joint.

1,348,758. DOOR-HANGER. BERNHARD SPITZFADEN, Brooklyn, N. Y. Filed Feb. 4, 1919. Serial No. 274,959. 1 Claim. (Cl. 16—91.)



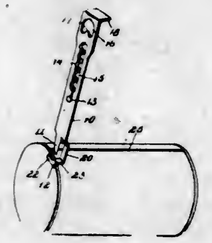
A door hanger, comprising a bracket having spaced parallel members and adapted to be secured to a door, a hub formed of sections contacting at the median line of the hub, said hub being of a thickness equal to the distance between the members of the bracket, the sections of the hub being recessed at their contacting faces to form a peripheral annular groove or ball race at the center of the thickness of the hub, screws securing the sections of the hub together, a wheel mounted on the hub and having an interior annular groove or ball race at the center of the thickness of the same, the ball race in the hub being deeper than that in the wheel, balls in said ball races, and a bolt passing through the members of the bracket and the hub and clasping the said members against the hub to prevent the same from turning.

1,348,759. VAPOR-STOVE. RICHARD HENRY STEPHENS, Birmingham, England, assignor of one-half to Kynoch Limited, Birmingham, England. Filed Jan. 23, 1920. Serial No. 353,474. 1 Claim. (Cl. 126—44.)



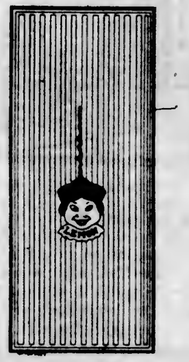
In a vapor stove, the combination with a fuel container of a preheater cup carried by the top thereof and having a flange at its upper end, a grid having eyes upon its underside, rod supports inclined downward toward the center of the container and passed through holes in the flange of the preheater, arch parts carried by the side of the preheater cup and engaged by the rod supports, and hooks at the upper ends of the rod supports engaged with the eyes of the grid.

1,348,760. CAN-OPENER. RICHARD M. STEWART, Chicago, Ill. Filed Oct. 27, 1919. Serial No. 333,602. 1 Claim. (Cl. 30—3.)



A can opener having a flat shank provided at one end with a longitudinally extending blade having an inner cutting edge, a transversely extended foot overlying and offset from the plane of the tip of the blade and having a neck offset in the opposite direction from the plane of the blade and arranged in parallelism therewith, said foot being connected with its neck by an offset shoulder intersecting the plane of the blade at an intermediate point of the length of its cutting edge.

1,348,761. CANDY-WRAPPER. WINIFRED SACKVILLE STONER, New York, N. Y., assignor to Newark Paraffine & Parchment Paper Co., New York, N. Y., a Corporation. Filed Oct. 23, 1919. Serial No. 332,664. 3 Claims. (Cl. 46—40.)



1. A candy wrapper comprising a sheet of material having a pictorial illustration about in the middle thereof; said wrapper adapted to be folded around a candy form to produce an article having some of the characteristic qualities of a doll, the said candy form providing a filler for the pictorial illustration and the remainder of the sheet arranged to provide a skirted body portion for the said pictorial illustration.

1,348,762. COMBINATION SPOON AND FORK. SOSAKU SUZUKI, Tokyo, Japan. Filed Mar. 12, 1919. Serial No. 282,159. 2 Claims. (Cl. 30—22.)

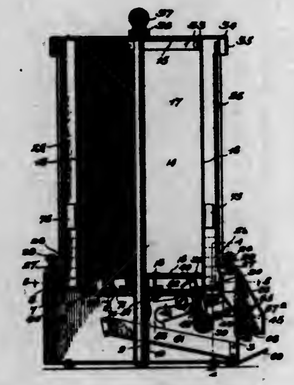
1. A device of the type described comprising a concave body formed to serve as a spoon, one of the faces of the

body being grooved and provided with an open recessed portion communicating with the grooves, the sides of the grooves and recess being formed with a bevel constituting



a track for receiving the tines and body of a fork the handle of which constitutes a handle for the spoon shaped body.

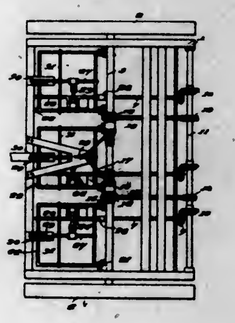
1,348,763. VENDING-MACHINE. WILLIAM G. TEMPLETON, Colorado Springs, Colo. Filed June 1, 1917. Serial No. 172,259. 2 Claims. (Cl. 211—8.)



1. The combination of an ejector, means for imparting an operating stroke to the ejector, a horizontal table, a drum mounted for rotation on a vertical axis with respect to said table and provided with a plurality of vertical compartments, each adapted to support a stack of articles to be ejected with the lowermost article of each stack positioned to be shifted into the path of the ejector upon rotary movement of the drum into different positions on its axis, a plurality of movement arresting devices on the table each coöperating to determine a properly adjusted position of the drum for article delivery, a resilient depending arm mounted on the drum with its lower end adjacent the table, a spring interposed between the bottom of the drum and the arm, and a roller carried on the lower end of the arm adapted to register with one of said arresting devicea when the drum is rotated to an adjusted position.

1,348,764. COTTON-CHOPPING MACHINE. JAMES O. THORNHILL, Jelle, Minn. Filed Dec. 26, 1917. Serial No. 208,818. 1 Claim. (Cl. 97—45.)

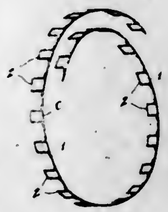
In a cotton chopper, a main frame having a live axle journaled therethrough for mounting traction wheels, an auxiliary frame hung to and below the main frame, a transverse drive shaft mounted on the auxiliary frame and operatively connected with the live axle carried by the main frame, a plurality of vertically swinging frames arranged side by side relative to each other transversely throughout the extent of the width of the auxiliary frame, crank shafts journaled longitudinally of the swinging frame, driven shafts disposed in longitudinal alinement with the crank shaft, universal joint connections between



the alined shafts, said driven shafts operatively associated with the transverse drive shaft, chopping members swingably mounted in the auxiliary frames, crank rods connecting the crank shafts with the chopping members below their point of mounting, means for regulating the transmission of power from the live axle to the drive shaft, and means for vertically adjusting the swinging frames independently of each other to vary the depth of the cut made by the chopping members

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1,348,765. PICKET-FENCE STRAND. JOHN B. WEEKS, Corinth, Miss. Filed July 15, 1919. Serial No. 311,105. 3 Claims. (Cl. 256—46.)

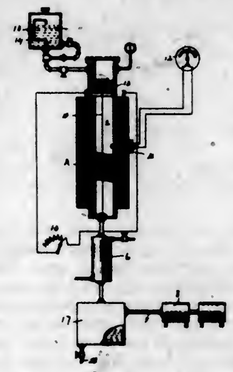


1. A picket carrying strand comprising a straight strand and picket carrying loops, the said loops being formed of separate strands and fixedly secured on said straight strand.

1,348,766. APPARATUS FOR MANUFACTURE OF GAS. MILTON C. WHITAKER and WALTER F. RITTMAN, New York, N. Y., assignors to Synthetic Hydro-Carbon Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 28, 1916. Serial No. 80,956. 9 Claims. (Cl. 196—25.)

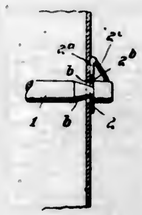
3. In an apparatus for treating materials in a gaseous phase, the combination of means for feeding the material to be treated, a plurality of small spaced surfaces, arranged in the line of the flow of the material, means for

heating the objects forming the surfaces, to a temperature above the gasifying temperature of such material and an



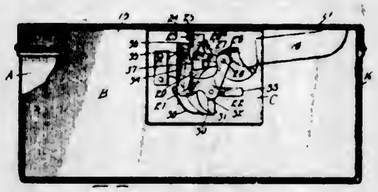
unobstructed chamber for receiving the gas and means for heating the walls of such chamber.

1,348,767. THREADLESS ROD OR BOLT. FRED E. WHITE, Gardner, Mass., assignor to Central Oil & Gas Stove Co., Gardner, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1920. Serial No. 360,902. 1 Claim. (Cl. 85—7.)



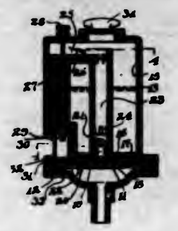
In a fastening for tie rods and the like, a rod having an undercut end portion and a fastening clip comprising a plate having an opening with a portion of a size to permit the passage of the said end and a reduced portion to engage said undercut portion, said plate having an angularly turned flange bendable into engagement with the rod end to hold the undercut portion in the reduced portion of the opening.

1,348,768. SAVINGS SAFETY-BOX. EDWARD HUGH WILLIAMS, New Orleans, La. Filed June 2, 1919. Serial No. 301,214. 7 Claims. (Cl. 194—51.)



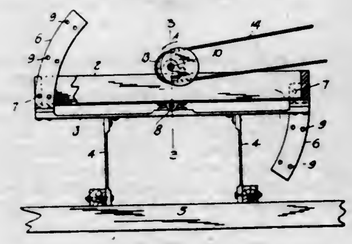
1. A safe-deposit box having a hinged lid, a partition within said box forming compartments therein, a casing within the box having a hinged lid located in one of said compartments, means for locking the lid of said inner casing, and means carried within said inner casing for locking the lid of the box, substantially as set forth.

1,348,769. LUBRICATING DEVICE. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 7, 1916. Serial No. 135,627. 41 Claims. (Cl. 184—29.)



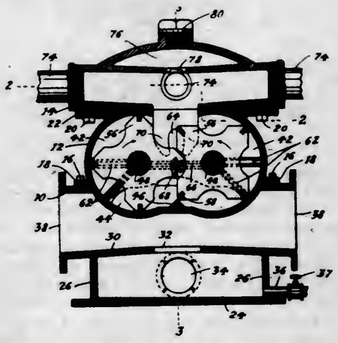
21. In a lubricating device, a cylinder, a piston therein, a reservoir constituting a source of lubricant supply, a supplemental reservoir communicating with said cylinder, means for subjecting each of said reservoirs to cylinder pressure, and means actuated by the variations in pressure in said cylinder for delivering lubricant from said source of supply to said supplemental reservoir.

1,348,770. VIBRATORY MOVEMENT. GUY L. ALLEN, Boulder, Colo., assignor of one-half to John G. Clark, Boulder, Colo. Filed Jan. 19, 1918. Serial No. 212,643. 2 Claims. (Cl. 83—56.)



1. The combination of springs capable of swinging in opposite directions from perpendiculars passing through fixed points of support, horizontal springs mounted on the others, a body carried on the horizontal springs, and an unbalanced weight rotating about a fixed center of motion on the body.

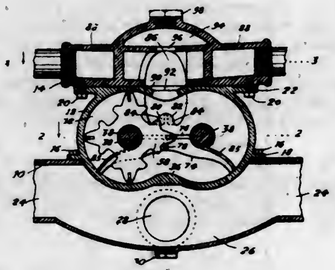
1,348,771. ROTARY PUMP. JOSEPH T. AUGER, Minneapolis, Minn., assignor of three-eighths to E. M. Ferguson, St. Paul, Minn., and three-eighths to E. Dulac, Minneapolis, Minn. Filed Apr. 22, 1918. Serial No. 229,988. 4 Claims. (Cl. 103—44.)



1. A rotary pump comprising a base member provided with an inlet chamber, an intermediate chamber con-

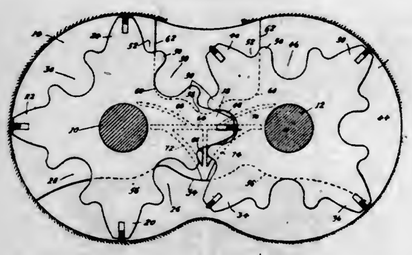
taining overlapping piston chambers connected with said inlet chamber, a top member having discharge openings in connection with said piston chambers, a partition in the upper portion of said top member, said partition being provided with a port whereby an air chamber is formed above said partition, the outer wall of said air chamber being provided with a priming opening, and a plug for closing said priming opening.

1,348,772. ROTARY PUMP. JOSEPH T. AUGER, Minneapolis, Minn., assignor of three-eighths to E. M. Ferguson, St. Paul, Minn., and three-eighths to E. Dulac, Minneapolis, Minn. Filed Feb. 7, 1919. Serial No. 275,543. 6 Claims. (Cl. 103—44.)



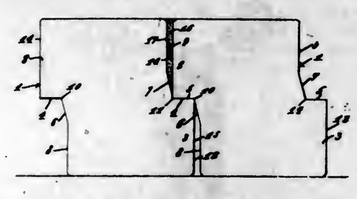
3. A rotary pump comprising a casing containing two overlapping piston chambers provided with lateral intake and discharge openings, bridges separating said intake and discharge openings, rotary pistons having intermeshing blades in said piston chambers, and shafts for said rotary pistons extending through said piston chambers, said bridges being provided with grooves extending in an inclined direction downwardly and outwardly from the lower sides of said shafts to the lower sides of the ends of said bridges.

1,348,773. ROTARY PUMP. JOSEPH T. AUGER, Minneapolis, Minn., assignor of three-eighths to E. M. Ferguson, St. Paul, Minn., and three-eighths to E. Dulac, Minneapolis, Minn. Filed Mar. 24, 1919. Serial No. 284,562. 7 Claims. (Cl. 103—44.)



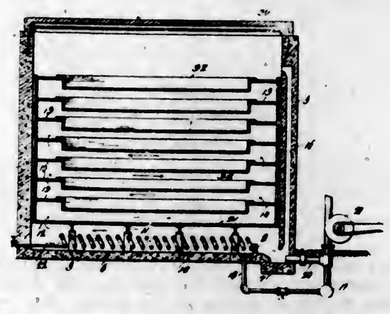
7. A rotary pump comprising a casing containing two overlapping piston chambers provided with lateral intake and discharge openings, bridges separating said intake and discharge openings, and rotary pistons having intermeshing blades in said piston chambers, each of said bridges being provided with a horizontal groove extending between the shafts of said pistons, a vertical groove extending from the middle of said horizontal groove to the intake opening, grooves extending from near the ends of said horizontal groove to the lower portion of said vertical groove, and grooves leading from near the tops of said shafts to said horizontal groove.

1,348,774. PAVING-BLOCK. ALTON L. BAUGHMAN, Wolf Lake, Ind. Filed June 26, 1919. Serial No. 306,883. 2 Claims. (Cl. 94—13.)



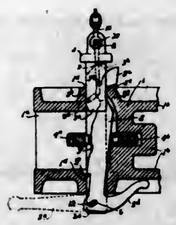
1. A paving block having upper and lower offsets on its respective sides, the upper offset defining a downwardly facing shoulder, and the lower offset defining an upwardly facing shoulder, the block being provided with approximately parallel laterally slanting surfaces leading respectively from the downwardly facing shoulder to the adjacent side surface of the block below the downwardly facing shoulder, and from the upwardly facing shoulder to the adjacent side surface of the block above the upwardly facing shoulder.

1,348,775. METHOD OF CURING CONCRETE AND LIKE PLASTIC MATERIALS. LEONARD A. BELLONBY, Montpelier, Vt. Original application filed June 1, 1917, Serial No. 172,274. Divided and this application filed Nov. 26, 1919. Serial No. 340,917. 7 Claims. (Cl. 25—133.)



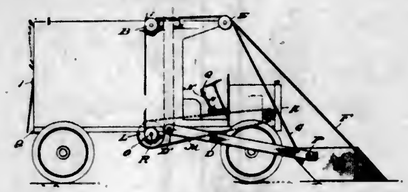
1. The method of curing concrete and analogous self setting plastic material, the same consisting of subjecting the same to a heated vapor bath, then to a bath of hot water and finally subjecting the same to hot air.

1,348,776. CAR-COUPLING. OBED C. BILLMAN, Cleveland, Ohio. Filed July 29, 1918. Serial No. 247,163. 52 Claims. (Cl. 213—10.)



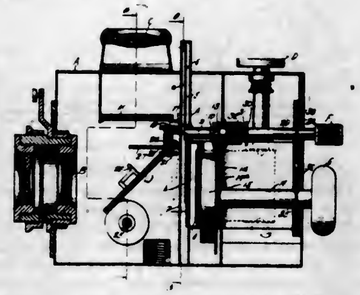
1. In a car coupling, a coupler head, a knuckle, a lock, a knuckle actuator, and bell-crank lock-to-the-lock means for moving the latter with the movements of said lock.

1,348,777. SELF-LOADER FOR AUTOTRUCKS. CHARLES A. BLANK, Miller, Ind. Filed Dec. 16, 1916. Serial No. 137,425. 1 Claim. (Cl. 214—78.)



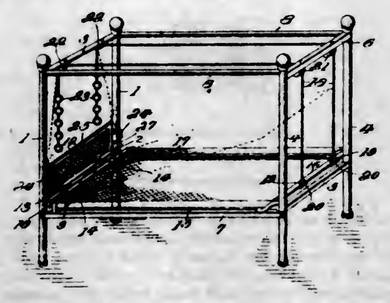
The combination, with a motor car, of arms pivoted to the middle part of the car frame, a shovel secured to the free end portions of the arms and adapted to engage with the ground in front of the car, a winding shaft operatively connected with the driving motor of the car, winding barrels secured on the winding shaft and arranged one on each side of the car frame, front and rear guide sheaves supported above the front and middle portions of the car frame, the rear guide sheaves being arranged to the rear of the pivots of the said arms, and flexible connections wound on th winding barrels and passing over the guide sheaves and operating to raise the shovel so as to discharge its contents at the rear part of the motor car.

1,348,778. REFLEX FOCAL-PLANE CAMERA. MALCOLM BOYD BOYCE, Haverhill, Mass. Filed July 8, 1918. Serial No. 243,830. 8 Claims. (Cl. 95—61.)



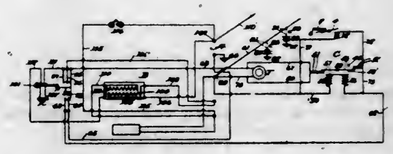
1. A camera including a shutter having relatively rotatable and axially movable sections, a device for rotating and axially moving the sections relatively one to the other, coöperating locking means on the sections and controlled by the axial movement thereof, and a motor for turning the sections.

1,348,779. ADJUSTABLE INCLINED BED. VIRGINIA M. BROUN, Washington, D. C. Filed Dec. 19, 1919. Serial No. 345,941. 4 Claims. (Cl. 5—12.)



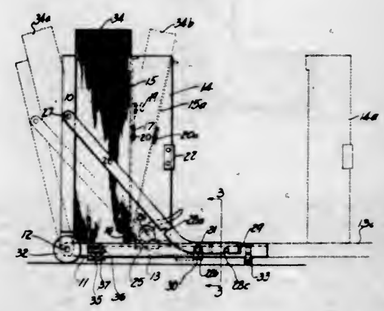
8. The combination of a bed frame; of a spring frame pivotally connected thereto at the head of the bed, said bed frame having cross frames and side frames arranged above the spring frame, guiding and supporting pulleys carried by said cross frames, ropes attached to the spring frame at the foot end thereof, and running over said guiding and supporting pulleys and having their free ends adjacent the head end of the bed whereby the same are readily accessible to a person in the bed, the free ends of said ropes being provided with weighted rings to facilitate the adjustment of the spring frame, and said bed frame having downwardly turned knobs adapted to be engaged by said rings whereby the springs may be held in various adjusted positions.

1,348,780. TELEPHONE SYSTEM. BRYANT D. CAMPBELL, Oakland, Calif. Filed Apr. 3, 1917. Serial No. 159,440. 5 Claims. (Cl. 179—6.3.)



1. In a central controlled pay telephone, a coin mechanism, means whereby the transmitter of the calling party is made inoperative until the calling and called parties are connected, and the coin mechanism set to receive the coin of the calling party, and means whereby the coin mechanism may be actuated by the calling party to collect and register his coin when the calling and called parties are connected.

1,348,781. POSTING-TRAY AND RECORD-BINDER. RICHARD R. CARDALL, Salt Lake City, Utah, assignor of one-half to Harry Shepherd, Salt Lake City, Utah. Filed June 8, 1918. Serial No. 239,049. 8 Claims. (Cl. 129—1.)

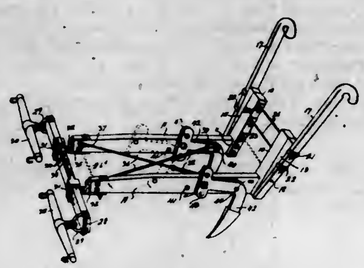


5. In a posting-tray and record binder, the combination with a primary leaf portion, of a secondary leaf portion pivotally connected thereto along adjacent edges thereof, an adjustable follower suitably mounted on one of the said leaf portions, and means for adjustably limiting the angular opening between the said leaf portions.

1,348,782. PLOW AND CULTIVATOR CONVERTING ATTACHMENT. GORMAN R. COOK, Alpine, Ala. Filed Oct. 27, 1919. Serial No. 333,451. 11 Claims. (Cl. 97—20.)

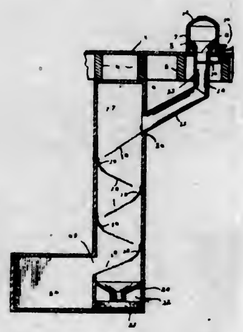
1. A plow attachment including a pair of standards adapted to be engaged with the rear ends of a pair of plow beams, handles coacting with the standards, means

connecting the standards and adapted to hold them in parallel, upwardly convergent or downwardly convergent



relation, and means whereby the handles may be disposed and held in an upwardly convergent, upwardly divergent, or parallel relation to said standards.

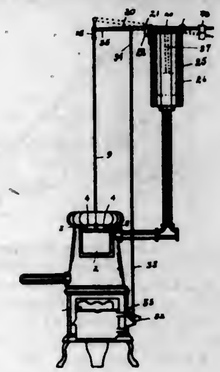
1,348,783. ASH-SIFTER. PETER CORLEY, Brooklyn, N. Y. Filed June 14, 1917. Serial No. 174,737. 1 Claim. (Cl. 83—60.)



An ash sifting device comprising a vertical L-shaped casing, the horizontal leg of which is divided from the vertical leg thereof by a vertical partition, said partition having its upper end disposed in spaced relation to the lower end of one wall of the vertical leg, a series of curved plates secured to opposite walls of the vertical leg in staggered relation and extending in a direction toward the center of said leg, downwardly inclined screen plates secured to the inner end portions of the plates, said curved plates being imperforate, the lowermost of the screen plates having its other end secured to the upper end of the said partition, said vertical leg having an ash inlet opening immediately above the upper end of the uppermost screen plate.

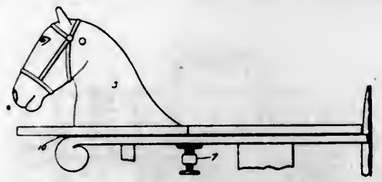
1,348,784. HEATER FOR INCUBATORS. VERNER F. DAVIS, Orange, N. J., assignor to Percy D. Peters, Little Falls, N. Y. Filed Apr. 5, 1919. Serial No. 287,780. 3 Claims. (Cl. 236—6.)

3. In a heater for incubators or brooders having a coal fire, a draft door under the fire, a throttle valve over the fire, a check door adapted for use as a coal feed door and located between the fire and the throttle valve, a float, a lever operatively governed by said float and so arranged



as to open the check door when the draft door under the fire and the throttle valve are closed.

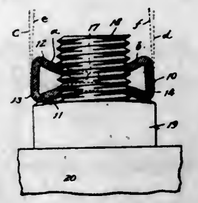
1,348,785. ROCKING-HORSE. WILLIAM DICKINSON, Spokane, Wash. Filed Feb. 20, 1919. Serial No. 278,108. 9 Claims. (Cl. 46—22.)



1. As an article of manufacture, an attachment comprising a board shaped to provide a seat, an upright formed to simulate a horse's head secured to said board forwardly of said seat, and a clamp extending beneath said board to attach the same to the arm of a chair, consisting of an arm extending beneath and parallel to said board but spaced therefrom and a clamp screw threaded through the end of said arm.

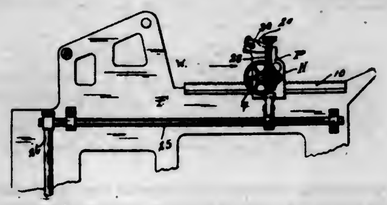
1,348,786. [WITHDRAWN.]

1,348,787. NUT-LOCK. ALFRED DU PUY, Oak Park, Ill. Filed May 7, 1917. Serial No. 166,810. 5 Claims. (Cl. 151—21.)



2. A nut-lock, comprising concave inner and outer walls having a space therebetween and being integrally connected together at two opposite sides thereof, said inner and outer walls being provided with alined screw-threaded bolt holes, and one of said walls being split along a line extending through the bolt hole therein and interposed between the means connecting said inner and outer walls.

1,348,788. PUNCHING-MACHINE. ORVILLE V. DUTRO and ARTHUR S. BURROUGHS, Spokane, Wash. Filed Apr. 21, 1919. Serial No. 291,675. 4 Claims. (Cl. 164—96.)

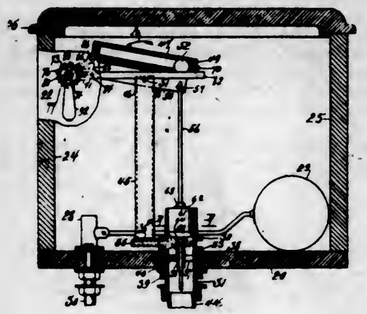


1. The combination in a punching machine with the two pairs of transverse bars forming a carriage frame, of a punching device supported on the carriage frame and comprising a die member and a punch member in reciprocal relation thereto, means for reciprocating the punch member, one of said bars being tubular, and actuating means including a coöperating member in the tubular bar for moving the carriage frame.

1,348,789. LUMBER COMPOSITION. JOHN N. EHR, WALTER J. EHR, and GUY W. MATTESON, Moose Lake, Minn. Filed Feb. 2, 1918. Serial No. 215,108. 4 Claims. (Cl. 106—34.)

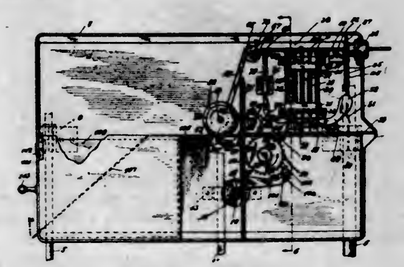
1. The described composition including paper pulp and plaster and swamp moss pulp, said paper pulp being waste paper repulped.

1,348,790. FLUSH-TANK VALVE AND APPURTENANCES. PHILIP M. ENGLISH, Bayonne, N. J.; Ada J. English executrix of said Philip M. English, deceased. Filed Feb. 16, 1918. Serial No. 217,690. 2 Claims. (Cl. 4—5.)



1. The combination of a tank, a sleeve extending through the bottom of the tank, the upper face of the sleeve constituting a valve seat, the sleeve having an extension with a cavity that leads to the opening through the sleeve, means to secure the sleeve in place to the bottom of the tank, a hollow column with slots at its upper end supported on said extension with its interior in connection with said cavity, an oscillating beam comprising a barrel with a flange parallel to the longitudinal axis thereof, the said flange located in the slots in the upper end of said hollow column, a hinge pin extending through the column and the flange of the barrel to allow the latter to oscillate, a counter-balancing ball in the barrel, a rigid valve stem with one end pinned to the flange of the barrel, a valve and a non-collapsible float secured to the other end of the valve stem coacting with said valve seat, an arm to tip the beam and an operating handle to actuate the arm.

1,348,791. RECORDING-MACHINE FOR LIQUID FUEL AND THE LIKE. FRED EVANS, Summit, N. J. Filed Oct. 15, 1918. Serial No. 258,261. 4 Claims. (Cl. 234—34.)



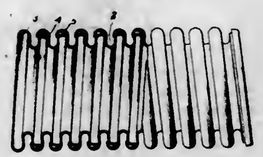
3. In a machine for dispensing liquids in measured quantities, of recording mechanism associated therewith, adapted for recording the quantities of liquid dispensed upon a record receiving member, said recording mechanism comprising a plurality of sets of perforating members adapted to perforate said record receiving member, means for selectively operating the perforating members of one set to produce a record upon said record receiving member, and means for operating the other set of perforating members in unison, whereby one or more of them is caused to produce a record upon said record receiving member.

1,348,792. DISH-DRIER. BERNARD FEINGOLD, New York, N. Y. Filed June 19, 1919. Serial No. 305,217. 1 Claim. (Cl. 141—11.)



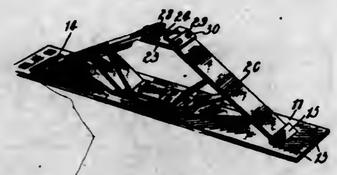
A device of the character described comprising a pan having a channel passage at the bottom thereof, a series of rungs attached to sides of said pan and a series of rungs hingedly attached to said pan and adapted to fit over said channel passage.

1,348,793. TUBE. WILLIAM H. FULTON, Irvington, N. J., assignor to Titeflex Metal Hose Corporation, a Corporation of New York. Filed May 15, 1917. Serial No. 168,653. 5 Claims. (Cl. 137—75.)



1. A tube comprising a helically disposed strip having a longitudinal groove adjacent one edge and a longitudinally extending portion of zigzag section adjacent the other edge, the said portion of zigzag section being within the said groove and having its relatively deflexed portions overlying each other radially of the tube.

1,348,794. RAIL-CHAIR. NAZZARENO GIACOMELLI, Newburgh, N. Y. Filed Mar. 15, 1920. Serial No. 365,967. 3 Claims. (Cl. 238—272.)



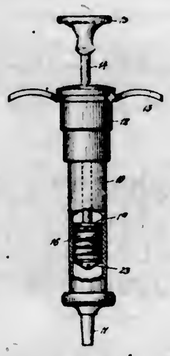
1. A rail chair comprising a base plate, said plate adapted for connection to a tie, a truss member adjustably connected to the base plate, and a plurality of spring plates interposed between the truss member and base plate.

1,348,795. BOW-FASTENER. RAOUL GIRAUDIAS, Montreal, Quebec, Canada. Filed May 10, 1920. Serial No. 380,142. 2 Claims. (Cl. 24—243.)



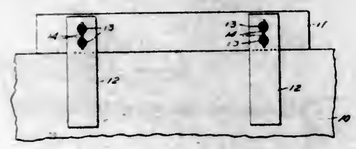
1. A bow fastener of the character described, comprising a concave convex ring, projections formed with the outer edges of said ring, and a leaf spring adapted to be retained between said projections whereby the bow may be retained between said leaf spring and the concave face of said ring.

1,348,796. SYRINGE. CHRISTIAN E. A. GRONBECH, New York, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 9, 1918. Serial No. 257,461. 1 Claim. (Cl. 128—219.)



In a syringe, the combination of a glass barrel, a piston comprising a corrugated, tubular, metallic shell and devices at opposite ends thereof, said devices being adjustable toward each other whereby said shell is transversely expanded and means for actuating said piston.

1,348,797. CLOTHES-WRINGER ATTACHMENT FOR WASHTUBS. JACOB J. HESS, Toronto, Ontario, Canada. Filed Nov. 5, 1918. Serial No. 261,289. 1 Claim. (Cl. 68—32.)



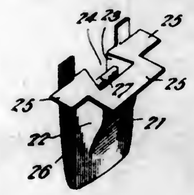
A protecting device for the edge of a washtub comprising an elongated block of a thickness to correspond to the thickness of the edge of the tub, and depending legs secured to opposite sides of the block, adjacent the ends thereof, and in opposite pairs.

1,348,798. POSTERIOR INTERCHANGEABLE TOOTH AND BACKING FOR BRIDGEWORK. DAVID S. HIGHKIN, Baltimore, Md. Filed Feb. 10, 1920. Serial No. 357,543. 7 Claims. (Cl. 32—12.)



1. In dental bridge work, a supporting backing of metal having a socket that opens through its front face and through its outer end, said outer end constituting a boxing and a porcelain tooth facing having a projection on the outer portion of its rear side that fits in the outer portion of the socket and is inclosed by the boxing of the backing, said projection having its end face exposed to biting action, and a reinforcing brace between the facing and extension and integral therewith.

1,348,799. POSTERIOR INTERCHANGEABLE TOOTH AND BACKING FOR BRIDGEWORK. DAVID S. HIGHKIN, Baltimore, Md. Filed May 7, 1920. Serial No. 379,568. 8 Claims. (Cl. 32—12.)



1. In dental bridge work, a supporting backing having a socket that opens through its front face and through its outer end, said backing including boxing walls at its outer end, and a tooth facing having a rearwardly extending projection on its outer portion that is adapted to be inclosed by the boxing walls, said outer portion having its end face exposed to biting action, and a reinforcing brace between the facing and said extension, said brace fitting in the socket of the backing, said backing having a portion projecting into the socket, and said brace having a socket that receives the projecting portion.

1,348,800. WATER-MOTOR. JESSE N. HIPKINS, Wheeling, W. Va., and FRANK C. COSS, Martins Ferry, Ohio. Filed Feb. 6, 1919. Serial No. 275,402. 5 Claims. (Cl. 121—123.)

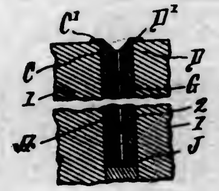
1. A water motor of the character described, comprising a base, a head pivotally connected with the base, a

cylinder having detachable engagement at one end with the head, a second head detachably engaging the opposite end of the cylinder, an outlet pipe connected with the second named head, an externally threaded sleeve receiving



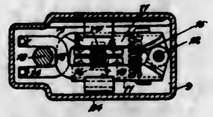
the outlet pipe, an internally threaded bearing receiving said sleeve and detachably connected with the base, a piston mounted within the cylinder, and means whereby fluid pressure introduced into the cylinder causes the reciprocation of the piston.

1,348,801. INSERT FOR CONCRETE AND THE LIKE, TO RECEIVE NAILS AND OTHER FASTENERS, OR BUILDING ELEMENTS. HENRY HUDSON, Malvern, Victoria, Australia. Filed June 11, 1918. Serial No. 239,472. 2 Claims. (Cl. 72—105.)



2. An insert of the character described composed of sheet metal shell bent upon itself to provide a pair of curved cheeks lying close together but substantially parallel throughout and separated by a space slightly smaller than articles to be inserted therein, said cheeks having a flaring mouth along one edge thereof, said mouth being formed to receive fastenings which are adapted to enter a concrete form, whereby the end of the insert remote from the form and innermost with respect to the wall being formed will be in a plane higher than the mouth of the insert to allow the concrete to enter beneath the insert with more facility, substantially as described

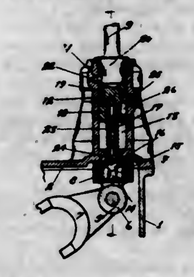
1,348,802. SHIFT-BLOCK LOCK AND RETAINER. GEORGE C. JENSEN, Oakland, Calif. Filed Nov. 12, 1919. Serial No. 337,548. 12 Claims. (Cl. 70—126.)



9. In combination with a gear case provided with a pair of shifter devices, a cover for the case, a lever for selectively operating said devices, a pair of pivoted levers carried by said cover for locking said devices in their adjusted position, a pair of flanged members on said case for overlying said levers, and means for locking said levers from swinging movement and to lie beneath said overlying members whereby said shifter devices are locked from movement and said cover is locked to said case.

1,348,803. LOCK FOR SHIFTER-BLOCKS. GEORGE C. JENSEN, Oakland, Calif. Filed Nov. 12, 1919. Serial No. 337,549. 11 Claims. (Cl. 70—126.)

2. In combination with a gear case, a rod therein, a pair of shifter blocks arranged thereon in end to end relation and adapted for independent eslective sliding movement on said rod, a cover for said case, means carried thereby for selectively operating said blocks, said blocks provided with arms adapted to overlap and said arms provided on adjacent faces with a stop, and lock controlled means carried by said cover extending between



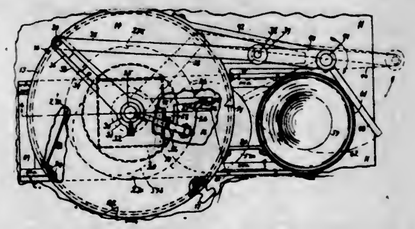
said overlapping arms for engaging said stops to lock said blocks from movement.

1,348,804. PROCESS OF EXTRACTING IRON FROM ITS ORES. CHARLES COLCOCK JONES, Los Angeles, Calif. Filed June 19, 1916. Serial No. 104,523. 2 Claims. (Cl. 75—14.)

1. A process of reducing iron from iron ore, which consists in mixing the iron with petroleum, embedding the mixture in solid carbonaceous fuel in containers to which air has no access, heating said containers to a temperature below the heat of fusion, but to a sufficiently high temperature to reduce the ore to a metallic state and leaving an appreciable amount of carbon in the interstices of the reduced iron derived from the petroleum, the retention of this carbon and the agglomeration of the reduced iron and such carbon being due to a coking action of the mixed petroleum during the reduction of the iron to the metallic state.

2. The method of producing a body of iron containing carbon which comprises making an intimate mixture of finely divided iron ore and petroleum, of heating said mixture in a suitable container together with carbonaceous fuel without access of air below the heat of fusion, continuing the application of the heat externally of the container until the iron ore is reduced to the metallic state and the contained amorphous carbon from the petroleum is agglomerated with the reduced iron forming a mixture of petroleum coke and iron.

1,348,805. BUTTER CONTAINER AND CUTTER. THOMAS KASKOURAS, St. Paul, Minn. Filed Nov. 28, 1919. Serial No. 341,287. 11 Claims. (Cl. 31—65.)



1. In a device of the kind described, a base, a cylindrical inclosure mounted on the base and spaced above it, and having its bottom provided with an aperture mostly beyond the center of the inclosure, a centrally open disk guided to rotate in horizontal plane upon the inclosure, an angular butter magazine suspended from said disk into the inclosure and being rotatable with the disk, two crossing wires fixed in the lower end of the magazine, a radially disposed wire fixed across the aperture in the bottom of the inclosure intermediate said bottom and the crossed wires, a piston movable up and down in the magazine and having an upwardly extending piston rod with ratchet teeth at one side of it, a rocker arm and means operated by the rocker arm for rotating the disk one-fourth revolution at each forward stroke of the arm, and means

for feeding the piston rod downward a predetermined amount automatically at the end of each full revolution of the disk and the magazine.

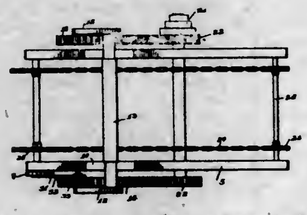
5. The structure specified in claim 4, and lateral guiding means upon the base for guiding the moved dishes to and beyond the butter delivering opening of the butter magazine.

7. The structure specified in claim 1, said feeding means for the piston rod comprising a swinging lever having a dog engaging the piston rod, and said rod having teeth for the dog to engage only so far as there is butter for the piston to move.

9. The structure specified in claim 8, and means for varying the distance the said finger may depress said lever, and automatic means for returning the rack-feeding lever to normal position.

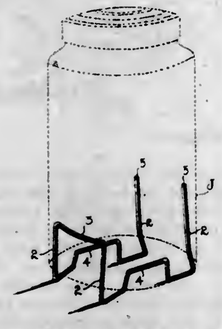
11. The structure specified in claim 10, said rack-moving dog being arranged to act on the rack only once during each full rotation of the disk.

1,348,806. METAL-BENDING MACHINE. HENRY KESSEN, Coldwater, Ohio. Filed Mar. 11, 1920. Serial No. 364,995. 3 Claims. (Cl. 153—21.)



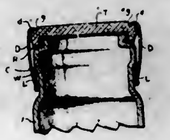
1. In a metal bending machine, a frame including side sections, a stationary die supporting table supported by the frame, a reciprocating ram coöperating with the die supporting table, an endless carriage supported by the frame, sprocket wheels for supporting the endless carriage, a gear wheel carried by each side section, each gear wheel having an integral rib provided with an elongated slot, a roller support including a bolt passing through the slot, said bolt adapted to permit adjustment of the roller longitudinally of the rib, and means within the path of travel of the roller, and having connection with the sprocket wheels at one end of the frame for causing an intermittent movement of the endless carriage.

1,348,807. JAR-RACK. JOHN L. KIVLAN, Boston, Mass. Filed Jan. 15, 1920. Serial No. 351,740. 1 Claim. (Cl. 53—1.)



A jar rack comprising a single piece of wire bent to form two elevated parallel spaced bottom supporting members, and a horizontal wall engaging member, the free ends of the wire being bent upwardly to form vertical resilient members oppositely disposed from the horizontal member.

1,348,808. CANNING PROCESS. JOHN L. KIVLAN, Boston, Mass. Filed Apr. 28, 1920. Serial No. 377,206. 1 Claim. (Cl. 226—82.)



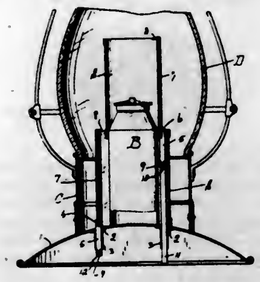
In a canning process, the clamping of a cover on a heated filled jar with an external mechanical pressure equal to, but not exceeding, normal atmospheric pressure, allowing the jar to cool and the substitution of atmospheric pressure for said mechanical pressure as a sealing force, and the maintenance of said mechanical pressure potentially as a substitute for said atmospheric pressure.

1,348,809. RHEOSTAT. JOHN G. KJELLGREN, Cleveland, Ohio, assignor to The Electric Railway Improvement Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 6, 1917, Serial No. 140,953. Renewed Nov. 13, 1919. Serial No. 337,866. 3 Claims. (Cl. 219—48.)



1. A rheostat resistance element comprising a series of resistance wires strung zigzag without crossing, arranged in substantially vertical, transversely spaced planes and forming V-shaped reaches opening alternately upward and downward, the angle between opposed bends being a predetermined constant, and sufficiently great to prevent the material heating of the upper reaches of the wires by the radiation heat rising from the lower reaches thereof, substantially as described.

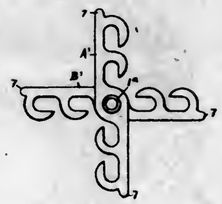
1,348,810. LANTERN. JOSEPH N. KLEMA, Austin, Minn. Filed Aug. 30, 1919. Serial No. 320,840. 2 Claims. (Cl. 240—23.)



1. A lantern comprising a base provided with an opening, a sleeve depending from the base and substantially defining the opening, a burner supported by the base, a transparent member surrounding the burner, an arm depending from the member and extending within the sleeve when the member is in its lowermost position, said sleeve being provided with an opening in a wall thereof, an operating lever pivotally engaged with the lower end portion of the arm, an arm carried by the lever, means for constantly urging the inner end portion of the arm toward the lever, said inner end portion being provided with an

inwardly curved extension, said inwardly curved extension engaging within the opening in the wall of the sleeve when the lever is moved upwardly through the sleeve to raise the transparent member.

1,348,811. MULTIPLE COUPLING. THEODORE C. KREMER, Sharpsburg borough, Pa., assignor to Lightning Coupler Link Company, Sharpsburg, Pa., a Corporation of Pennsylvania. Filed Apr. 18, 1919. Serial No. 290,924. 6 Claims. (Cl. 24—232.)



5. A coupler consisting of a pair of flat plates pivoted together face to face and adapted to be swung into and out of overlapping registration, each plate beyond its pivotal connection being provided with a plurality of open sided hooks and the hooks on one plate being oppositely disposed to the corresponding hooks on the other plate whereby when the said plates are in registration said hooks coact in pairs to form inclosures of varying distances from the pivot for the purpose specified.

1,348,812. COPYING-PAD. LOUIS V. LANDAU, Los Angeles, Calif., assignor to Landau's Instantaneous Duplicator Company, Los Angeles, Calif., a Corporation of California. Filed Dec. 4, 1919. Serial No. 342,499. 4 Claims. (Cl. 41—31.6.)

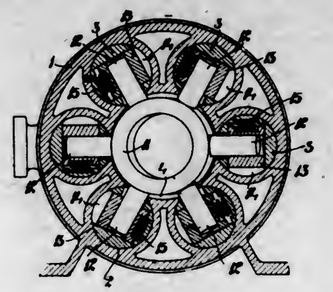
1. A composition for a copying pad for making copies of printed or written matter, comprising kaolin, glycerin, barium sulfate and dextrin.

1,348,813. HINGE-LOCK. PETER N. LANDINE, Milford, Conn., assignor to The Rostand Manufacturing Company, Milford, Conn., a Corporation of Connecticut. Filed Sept. 3, 1919. Serial No. 321,333. 2 Claims. (Cl. 16—110.)



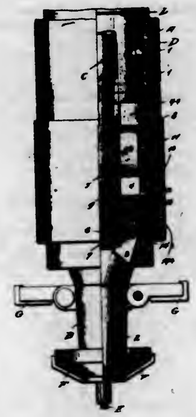
1. In a device of the character described, two members hinged together, a clamping element carried by one member and adapted to engage the other member for securing the members in position relatively to each other, and a cam carried by one member for causing the clamping element to engage said other member, said cam being below the surface of its carrying member.

1,348,814. MACHINE APPLICABLE AS PUMP, COMPRESSOR, OR MOTOR. SVEN LARSSON, Stockholm, Sweden. Filed Dec. 23, 1919. Serial No. 346,998. 2 Claims. (Cl. 103—44.)



2. In a machine of the kind described, the combination of a drum having a central boring and axially disposed cylinder chambers, reciprocating pistons in said cylinder chambers said pistons having transverse borings, plugs slidably and rotatably mounted in said transverse borings, springs interposed between the bottom of said borings and said plugs, arms engaging in said plugs, and means in said central boring of the drum for operating the arms to cause the same to reciprocate the pistons.

1,348,815. ROTARY DRILL. JULIAN C. LEWIS, St. Louis, Mo. Filed Feb. 16, 1920. Serial No. 358,896. 25 Claims. (Cl. 255—24.)

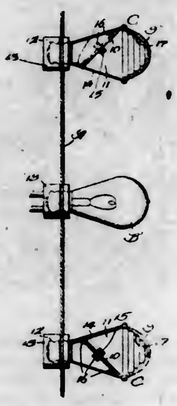


1. A rotary drill, comprising a head provided with a cutting means, and a water pump or propeller built into said head and comprising stationary blades and revolving blades that rotate with the head of the drill.

1,348,816. ILLUMINATED SIGN. ALEXANDER S. LIMPERT, Pittsburgh, Pa., assignor to Golden Glow Sign Corporation, New York, N. Y., a Corporation of New York. Filed June 4, 1919. Serial No. 301,711. 8 Claims. (Cl. 40—132.)

1. In a sign, the combination of a face plate having on its outer face a source of illumination arranged substantially centrally of the character to be outlined thereupon, coöperating character outlining lenses and reflectors

grouped in pairs about said source, each pair comprising an outer lens and an inner reflector, and means disposed



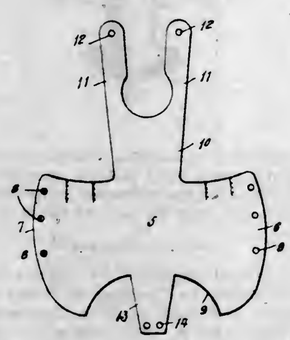
in advance of said face for operatively associating the members of each of said pairs with reference to said source.

1,348,817. GAME. RICHARD L. LLOYD, Minneapolis, Minn. Filed Sept. 16, 1919. Serial No. 324,157. 7 Claims. (Cl. 46—54.)



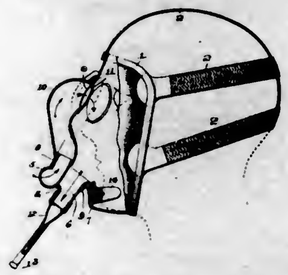
4. In a game or other amusement apparatus, a target field having a series of magnets arranged with faces in a plane of the field, and targets each having an armature piece with a countersunk face, the said face forming a seat for a removable tension member.

1,348,818. WATERPROOF GARMENT. DOROTHY L. MACCALLUM, Cambridge, Mass. Filed Aug. 31, 1917. Serial No. 189,165. 2 Claims. (Cl. 305—4.)



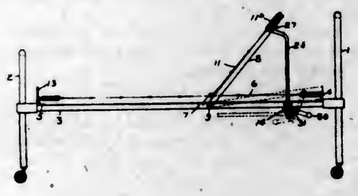
1. A garment including a body portion, lateral flaps, carried thereby, said body and flaps being adapted to fit about the lower portion of a person's body, and upper and lower extensions carried by said body centrally thereof and adapted to be passed over the shoulders and between the limbs of the wearer and secured to said flaps so as to support the garment and hold it in proper position.

1,348,819. GAS-MASK. ELTON W. MILLER, Washington, D. C. Filed Dec. 2, 1918. Serial No. 264,926. 10 Claims. (Cl. 128—141.)



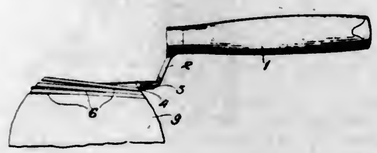
1. A gas mask comprising a face cover provided with a pair of transparent eyepieces, means for admitting incoming air at a point between the said eyepieces and means for deflecting the incoming air across the inner surfaces of said eyepieces.

1,348,820. BED OR ATTACHMENT THEREFOR. MOSES C. NIXON, Chicago, Ill. Filed July 25, 1913, Serial No. 781,148. Renewed Sept. 29, 1917. Serial No. 194,087. 14 Claims. (Cl. 5—43.)



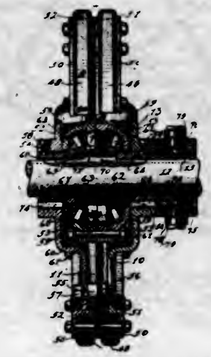
12. A bed having a pivoted member, gears at each side of the bed, means forming an operative connection between the pivoted member and said gears, a shaft extending across beneath the bed and adapted to operate said gears, and a pivoted support for said shaft, gear and operative connection.

1,348,821. FOOD-CUTTING DEVICE. JAN PALINSKI, Jersey City, N. J. Filed Dec. 8, 1919. Serial No. 342,150. 2 Claims. (Cl. 146—7.)



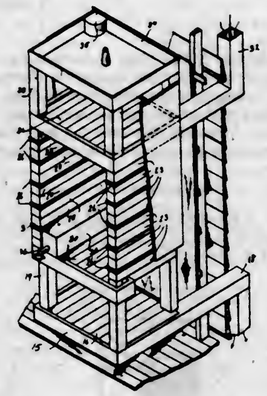
1. A device of the class described comprising a substantially U-shaped frame, a plurality of spaced apart, downwardly inclined blades releasably retained between the legs of said U, and means for retaining said blades comprising inclined spring members rigid to said legs.

1,348,822. POWER-TRANSMISSION MEANS AND CONTROL THEREFOR. JAMES R. RICKETTS, Long Beach, Calif. Filed May 7, 1917. Serial No. 168,304. 14 Claims. (Cl. 74—36.)



1. In a transmission mechanism, a driven shaft, a plurality of driven elements concentrically on and for rotating said shaft, differential gearing connecting said driven elements, and means for holding said driven elements in abutting positions for inclosing said gearing.

1,348,823. ICELESS REFRIGERATOR. GARRETT J. STANTON, Los Angeles, Calif. Filed Jan. 14, 1919. Serial No. 271,005. 8 Claims. (Cl. 45—134.)

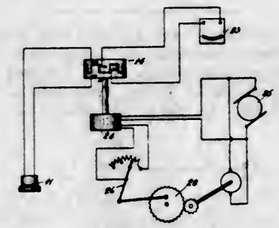


1. An iceless refrigerator comprising shelves having baffle plates therein whereby an endless channel is formed, a connection from one end of the channel in the lowermost shelf to atmosphere and from the other end of said channel to one end of a similar channel in a superposed shelf, the other end of said last channel being connected to atmosphere; means to maintain a constant level of water in said channels whereby air passing therethrough will cool said water.

1,348,824. CANNING FOOD PRODUCTS. JOSE FELIX TRONCONI, Buenos Aires, Argentina. Filed Aug. 27, 1919. Serial No. 320,265. 1 Claim. (Cl. 99—8.)

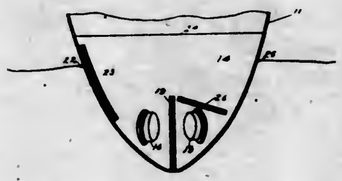
The improvement in the process of canning food products, including meat as a main ingredient, substantially consisting in providing the can or container with a lining of gut in its interior, in such a way that after introducing the product to be preserved, the latter will be entirely wrapped in the lining of gut, thereby preventing the direct contact of the preserved product with the can and providing at the same time a means for extracting the contents from the cans as an entirely wrapped block, adapted to be readily cut into slices as common cold cuts, substantially as described and for the purposes set forth.

1,348,825. METHOD AND APPARATUS FOR DETECTING LOW-FREQUENCY IMPULSES. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed May 21, 1917. Serial No. 169,830. 7 Claims. (Cl. 177—352.)



1. The method of detecting electrical impulses whose frequency may lie between certain limits which consists in passing such electrical impulses through a commutating device and varying the commutator frequency of such commutating device gradually from one limit to the other and observing the indication of a continuous current indicator operated by the commutated current from said commutating device.

1,348,826. METHOD AND APPARATUS FOR SUBMARINE SIGNALING AND DETECTION. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Feb. 1, 1918. Serial No. 214,849. 2 Claims. (Cl. 181—0.5.)

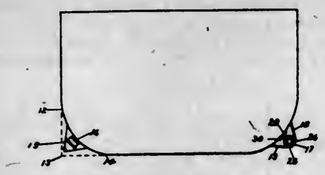


1. The method of submarine signaling and detection which consists in locating the signaling and detecting means in a partially-submerged, liquid-filled tank and below the level of the surface of the water in which the tank is partially submerged and acoustically insulating said means from the surface noises only of the submerging water whereby the sound waves originating at a distance may reach the signaling and detecting means without interference from water noises originating at or near the surface of the water.

1,348,827. METHOD AND APPARATUS FOR SUBMARINE SIGNALING. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Nov. 29, 1918. Serial No. 264,607. 1 Claim. (Cl. 116—27.)

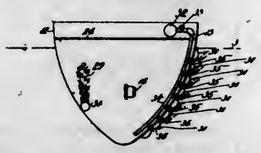
In a submarine signaling system, the combination of means for submarine signaling and a ship's hull, said

means being within the area bounded by the vertical prolongation of the ship's side; the outward prolongation of



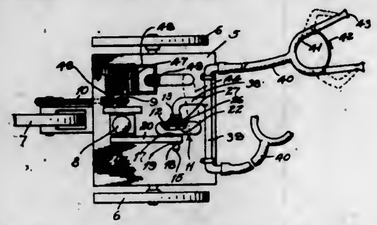
the ship's bottom, and the line joining the lower extremity of the ship's side to the outward extremity of the ship's bottom.

1,348,828. METHOD AND APPARATUS FOR SOUND INSULATION. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Feb. 1, 1919. Serial No. 274,562. 4 Claims. (Cl. 181—0.5.)



4. That method of screening from the effects of compressionable waves in liquids which consists in maintaining a stream of discontinuous air bubbles in the liquid, the distance between adjacent air bubbles in the stream being less than one quarter wave length of the compressionable wave whose lengths are to be screened.

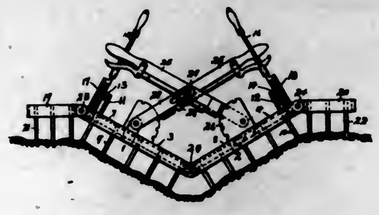
1,348,829. COTTON-PICKER MECHANISM. THOMAS RING GABEL and HALL H. HOLDAWAY, Los Angeles, Calif., assignors of two-thirds to Henry P. Jones, Los Angeles, Calif., and one-third to said Gabel. Filed Dec. 16, 1916. Serial No. 137,304. 2 Claims. (Cl. 193—10.)



1. In a cotton picking machine, a suction blower casing having a central inlet opening and a peripheral outlet, a fan in said casing and arranged to provide a space between the fan and the entrance side wall of said casing, a plate on the side of said fan with an opening therethrough in register with the opening into said casing, and a conical fender over said opening formed of smooth wires extended, at a space apart, from the outer small end of said conical fender to the inner edge of the side plate and projecting outwardly into the opening into said casing and forming a smooth deflecting guide for matter entering said opening whereby to guide it outwardly between the plate on the side of said fan and the inside wall of said fan casing, substantially as shown and described.

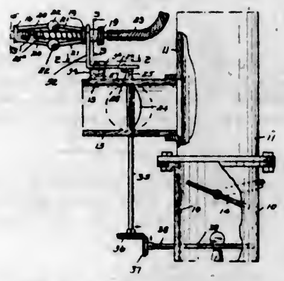
1,348,830. HARROW. HARRY GILLIS, Egypt, Tex. Filed May 13, 1919. Serial No. 296,805. 2 Claims. (Cl. 55—80.)

1. A harrow composed of independent sections hinged together, each section consisting of a frame work and adjustable depending harrow teeth, a rack-and-dog arrangement secured to each section, a lever pivotally se-



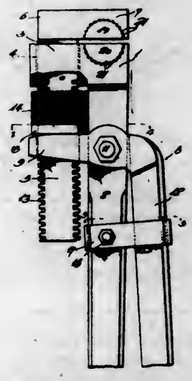
cured to each rack, one lever having a slot therein, a pin carried by the other lever, which operates in said slot to permit the movement of the levers relatively to each other.

1,348,831. SPEED LIMITING DEVICE. EDWARD G. HODGES, Marshalltown, Iowa. Filed Aug. 11, 1919. Serial No. 316,901. 5 Claims. (Cl. 123—124.)



1. In a device of the class described; a fuel mixture passage; an air passage communicating therewith; a valve in said air passage; a governor designed to be connected with a moving part of an engine; and means for connecting said valve with said governor for actuating said valve after the governor has reached a certain speed of movement.

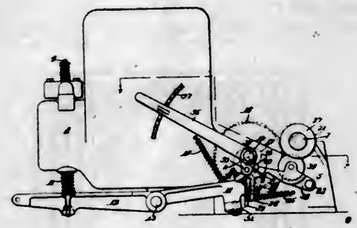
1,348,832. WRENCH. AUGUST MAGNAN, Great Falls, Mont. Filed Aug. 11, 1919. Serial No. 316,630. 1 Claim. (Cl. 81—85.)



A device of the class described comprising an L-shaped member having a long shank serving as a handle and a short shank provided at its inner end with a jaw face adapted to engage the inner side of a pipe or the like and

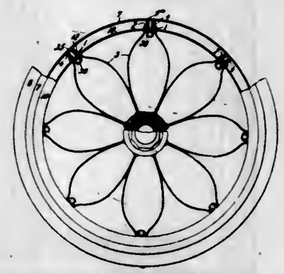
with an opening through its outer end, a second L-shaped member having a threaded long shank extending through said opening and a short shank provided at its outer end with a jaw face adapted to engage the inner side of a pipe or the like and disposed opposite the jaw face carried by the short shank of the first member, the corresponding shanks of said members being arranged in parallel relation and said short shanks projecting in opposite directions, an L-shaped lever having its short arm pivoted to the long shank of the first member and provided with an opening through which the threaded long shank of the second member extends, the long arm of said lever being disposed alongside the long shank of the first member to form a complementary handle, and a nut threaded upon the long shank of the second member and disposed between the short arm of said lever and the short shank of the first member.

1,348,833. SPEED-REGULATOR FOR ENGINES. WILLIAM A. NORTH, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed Feb. 23, 1917. Serial No. 150,424. 3 Claims. (Cl. 123—113.)



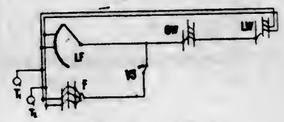
1. In a device of the character described, the combination with an internal combustion engine having a valve-actuating part, a manually adjustable lever, the pivot axis of which is fixed with respect to the engine frame, a notched segment also fixed with respect to the engine frame and with which the lever coöperates to be held in any adjusted position, a detent carrier pivotally mounted upon and supported by said lever, with its pivot axis eccentric to that of the lever, the detent carrier being movable about its pivot axis, independently of the lever, to bring its detent into and out of engagement with said valve-actuating part, and governor-actuated means for moving the detent carrier on its pivot to bring its detent into engagement with the valve-actuating part, the lever being manually adjustable to vary the operative relation of the detent carrier and valve-actuating part.

1,348,834. SPRING-WHEEL. JOHN E. STRIETELMEIER, Cincinnati, Ohio, assignor to The Ideal Wheel Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 3, 1913. Serial No. 798,905. 9 Claims. (Cl. 152—50.)



5. A vehicle wheel comprising a hub and a felly, flat metal spokes (3) arranged in outwardly bowed pairs, the outer ends (12) of the spokes of each pair at the felly being bent at an obtuse angle to lie flat along the felly, the ends of the bent portions (12) of each pair fitting against each other, means (11) on said felly for supporting said spokes on the outer sides extending inwardly toward the hub a short distance from the bend, a clamping member fitting flat against the bent ends and its ends bearing against the inner sides of said spokes at the bends, whereby the spokes will be held against end movement or turning, and detachable means at the hub for rigidly securing each pair of spokes thereto.

1,348,835. SWITCHING APPARATUS. FRITZ ALDENDORFF, Wilmersdorf, Berlin, Germany. Filed Mar. 16, 1914, Serial No. 825,102. Renewed Feb. 3, 1920. Serial No. 356,000. 29 Claims. (Cl. 179—18.)



1. A system for interconnecting calling and wanted telephone lines by electromechanically controlled switches comprising a group of comparatively quick-acting switches, a group of comparatively slow-acting switches, a group of selecting switches for selecting desired lines, and means for connecting any quick-acting switch directly to any selecting switch.

2. A system for interconnecting calling and wanted telephone lines comprising a group of switches containing a plurality of quick-acting switches, a plurality of slow-acting switches, a plurality of selecting switches for selecting wanted lines, means for connecting a calling line to a selecting switch through a quick-acting switch, and means for subsequently connecting the said calling line to a selecting switch through a slow-acting switch and for dissolving the connection through the said quick-acting switch.

3. A system for interconnecting calling and wanted telephone lines by electromechanically controlled switches comprising a group of quick-acting line finders, a group of comparatively slow-acting line finders, a group of selecting switches for selecting desired lines and means for connecting any quick-acting switch directly to any selecting switch.

4. A system for interconnecting calling and wanted telephone lines comprising a group of switches containing a plurality of quick-acting line finders, a plurality of slower-acting line finders, a plurality of selecting switches for selecting wanted lines, means for connecting a calling line to a selecting switch through a quick-acting line finder, and means for subsequently connecting the said calling line to a selecting switch through a slow-acting finder and for dissolving the connection through the said quick-acting finder.

5. A system for interconnecting calling and wanted telephone lines by electromechanically controlled switches comprising a group of quick-acting switches having fixed and movable contacts, a group of slow-acting switches having fixed and movable contacts, a group of selecting switches for selecting desired lines and subscriber's line connected to fixed contacts in each switch of each said group of switches.

1,348,836. TOY RATTLE. MARTIN PATREMIO, Lodi, N. J., assignor of one-half to Anthony Barbery, Lodi, N. J. Filed Dec. 16, 1919. Serial No. 345,281. 4 Claims. (Cl. 46—46.)

1. A rattle having a cylindrical head, end disks having peripheral flanges overlapping and secured to the ends

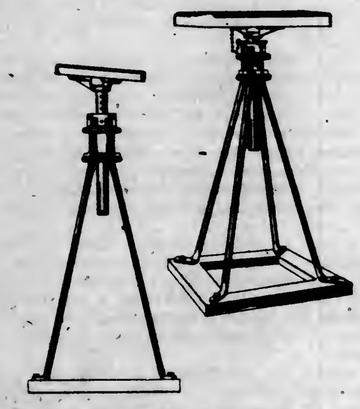
of said head, there being depressions in said disks with ledges surrounding them, and panels having inwardly



turned peripheral flanges fitted within and secured to said ledges of said depressions for the purpose specified.

DESIGNS.

55,927. ADJUSTABLE INDUSTRIAL SEAT. EDGAR W. ALLEN, Campbell, Calif. Filed Mar. 25, 1920. Serial No. 368,812. Term of patent 7 years.



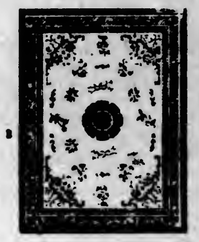
The ornamental design for an adjustable industrial seat as shown.

55,928. BED. LANVILLE A. BROWN, Kansas City, Mo. Filed June 18, 1919. Serial No. 305,186. Term of patent 14 years.



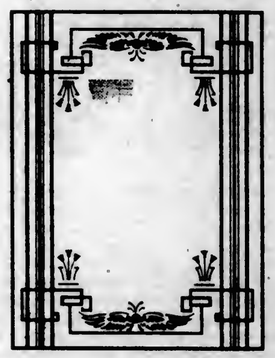
The ornamental design for a bed, as shown.

55,929. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Oct. 17, 1919. Serial No. 331,473. Term of patent 7 years.



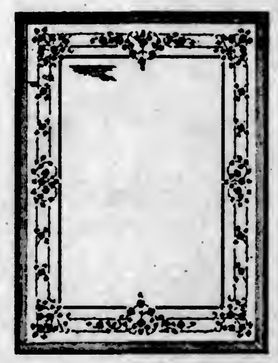
The ornamental design for a grass mat, as shown.

55,930. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Oct. 17, 1919. Serial No. 331,474. Term of patent 7 years.



The ornamental design for a grass mat, as shown.

55,931. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Oct. 17, 1919. Serial No. 331,475. Term of patent 7 years.



The ornamental design for a grass mat, as shown.

55,932. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Oct. 17, 1919. Serial No. 331,476. Term of patent 7 years.



The ornamental design for a grass mat, as shown.

55,933. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Oct. 17, 1919. Serial No. 331,477. Term of patent 7 years.



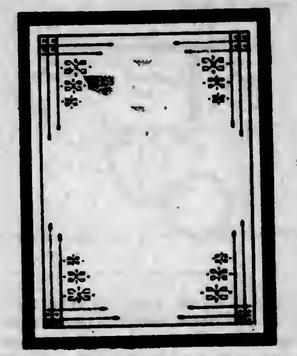
The ornamental design for a grass mat, as shown.

55,934. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Oct. 17, 1919. Serial No. 331,478. Term of patent 7 years.



The ornamental design for a grass mat, as shown.

55,935. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Oct. 17, 1919. Serial No. 331,479. Term of patent 7 years.



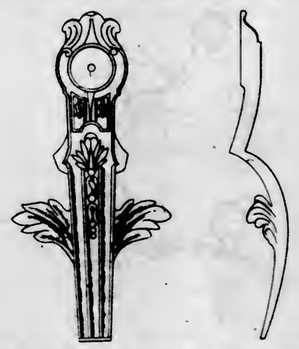
The ornamental design for a grass mat, as shown.

55,936. BADGE, EMBLEM, INSIGNIA, OR ARTICLE OF SIMILAR NATURE FOR A YOUNG MEN'S CHRISTIAN ASSOCIATION SWEATER FRONT OR FOR LIKE PERSONAL WEAR. FRANK H. CHELEY, Denver, Colo., assignor to The International Committee of the Young Men's Christian Association, New York, N. Y., a Corporation of New York. Filed Feb. 20, 1920. Serial No. 360,161. Term of patent 14 years.



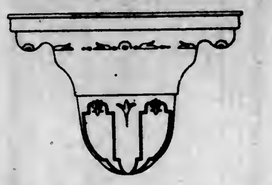
The ornamental design for a badge, emblem, insignia, or article of similar nature for a Young Men's Christian Association sweater front or for like personal wear.

55,937. ARM COMPRISING A LIGHTING-FIXTURE PART. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 8, 1920. Serial No. 372,354. Term of patent 7 years.



The ornamental design for an arm comprising a lighting fixture part, as shown.

55,938. LIGHTING-FIXTURE CANOPY. HARRY COHN, Brooklyn, N. Y., assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 8, 1920. Serial No. 372,358. Term of patent 7 years.



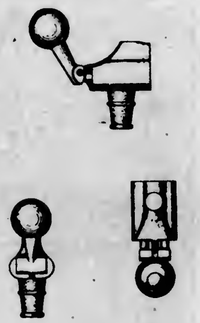
The ornamental design for a lighting fixture canopy, as shown.

55,939. SOCKET-COVER FOR LIGHTING-FIXTURES. HARRY COHN, Brooklyn, N. Y., assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 8, 1920. Serial No. 372,359. Term of patent 7 years.



The ornamental design for a socket cover for lighting fixtures, as shown.

55,940. DRAFT-ARM FOR LIQUID-DISPENSING APPARATUS. HARRY S. CORNISH, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,769. Term of patent 14 years.



The ornamental design for a draft arm for liquid dispensing apparatus as shown.

55,941. BUTTON. JOHN ANDREW DUNCAN, Jr., St. Joseph, Mo. Filed Nov. 20, 1919. Serial No. 339,448. Term of patent 3½ years.



The ornamental design for a button, as shown.

55,942. DOLL. JAMES FEUERLICHT, New York, N. Y. Filed Feb. 25, 1920. Serial No. 361,271. Term of patent 3½ years.



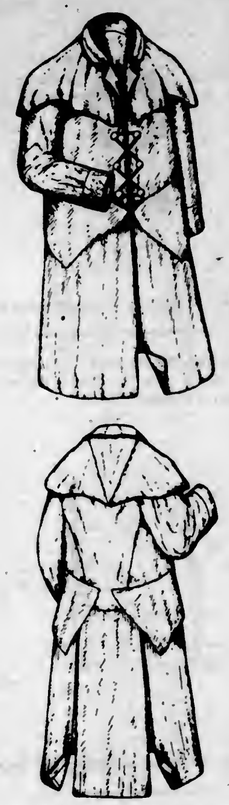
The ornamental design for a doll as shown.

55,943. PLAYING-CARD. JAMES C. GAFFNEY, New York, N. Y., assignor to Democracy Playing Card Company, Incorporated, a Corporation of Delaware. Filed June 16, 1919. Serial No. 304,701. Term of patent 7 years.



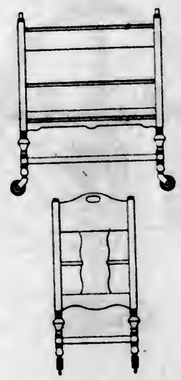
The ornamental design for a playing card, as shown.

55,944. COAT. ANNIE E. GRAY, Philadelphia, Pa. Filed Mar. 2, 1920. Serial No. 362,786. Term of patent 3½ years.



The ornamental design for a coat substantially as shown.

55,945. PORTABLE SERVING-TABLE. ADAM HASKELL, Lookout Mountain, Tenn. Filed Apr. 27, 1920. Serial No. 377,115. Term of patent 14 years.



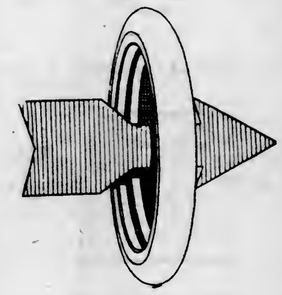
The ornamental design for a portable serving table, as shown.

55,946. JEWELRY—NAMELY, A PIN, BROOCH, RING, OR ARTICLE OF SIMILAR NATURE. LEE HIRSCH, New York, N. Y. Filed June 5, 1919. Serial No. 302,044. Term of patent 14 years.



The ornamental design for an article of jewelry, namely, a pin, brooch, ring, or article of similar nature.

55,947. HIGHWAY ADVERTISING AND DIRECTING DEVICE. FRED A. HORN, Denver, Colo. Filed Oct. 1, 1919. Serial No. 327,792. Term of patent 7 years.



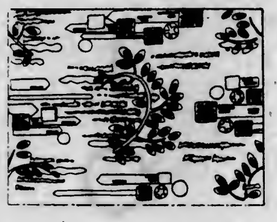
The ornamental design for a highway advertising and directing device, as shown and described.

55,948. ARM FOR LIGHTING-FIXTURES. STEPHEN KOSTSZEWSKI, New York, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Apr. 27, 1920. Serial No. 377,117. Term of patent 7 years.



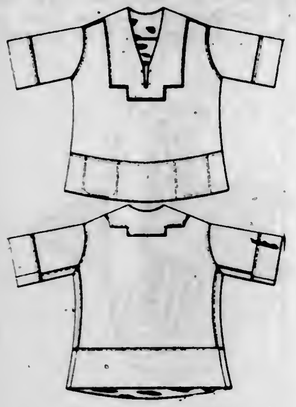
The ornamental design for an arm for lighting fixtures, as shown.

55,949. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1919. Serial No. 339,200. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

55,950. MIDDY-BLOUSE. ISABEL CLAFLIN LABIER, Holliston, Mass. Filed Apr. 26, 1920. Serial No. 376,878. Term of patent 7 years.



The ornamental design for a middy blouse as shown.

55,951. WALL-PAPER. SHIRLEY S. LLOYD, New York, N. Y. Filed Oct. 30, 1919. Serial No. 334,543. Term of patent 7 years.



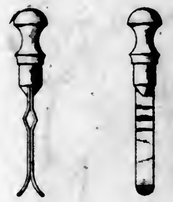
The ornamental design for wall paper, as shown.

55,952. JEWEL-SETTING. JOSH W. MAYER, New York, N. Y. Filed Feb. 7, 1920. Serial No. 357,109. Term of patent 7 years.



The ornamental design for a jewel setting, as shown.

55,953. CLOTHESLINE-CLAMP. JACOB MILLER, West Falls, N. Y. Filed Feb. 9, 1920. Serial No. 357,364. Term of patent 14 years.



The ornamental design for a clothesline clamp, as shown.

55,954. ELECTRIC LAMP. ALBERT J. D. OHM, Astoria, N. Y., assignor to Lion Electric Appliance Co., Brooklyn, N. Y. Filed Mar. 2, 1920. Serial No. 362,782. Term of patent 3½ years.



The ornamental design for an electric lamp as shown.

55,955. [WITHDRAWN.]

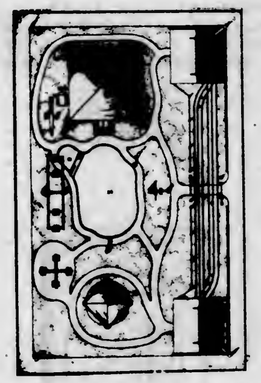
55,956. [WITHDRAWN.]

55,957. PIN OR SIMILAR DEVICE FOR PERSONAL WEAR. BERNARD R. REYNOLDS, Kansas City, Kans. Filed Oct. 10, 1919. Serial No. 329,859. Term of patent 7 years.



The ornamental design for a pin or similar device for personal wear, as shown.

55,958. TOY. MARSHALL J. ROHA, Washington, D. C. Filed June 1, 1916. Serial No. 101,185. Term of patent 3½ years.



The ornamental design for a toy as shown.

55,959. FIGURETTE. MARY LA FETRA RUSSELL, New York, N. Y. Filed Aug. 30, 1919. Serial No. 320,956. Term of patent 14 years.



The ornamental design for a figurette, substantially as shown and described.

55,960. ILLUSION DEVICE. VINCENT N. SIMON, Chicago, Ill. Filed May 8, 1919. Serial No. 295,790. Term of patent 3½ years.



The ornamental design for an illusion device, as shown.

55,961. RUG. JAMES G. SPECK, Philadelphia, Pa., assignor to Bigelow Hartford Carpet Company, a Corporation of Massachusetts. Filed Oct. 3, 1919. Serial No. 328,296. Term of patent 3½ years.



The ornamental design for a rug, substantially as shown.

55,962. DOLL. BERNICE SQUIER and BLANCHE SQUIER, Battle Creek, Mich. Filed Jan. 8, 1920. Serial No. 350,227. Term of patent 3½ years.



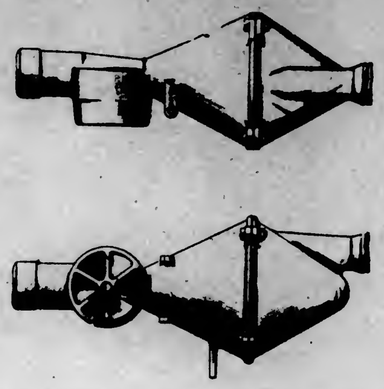
The ornamental design for a doll as shown.

55,963. TOY ANIMAL. BERNICE SQUIER and BLANCHE SQUIER, Battle Creek, Mich. Filed Jan. 8, 1920. Serial No. 350,228. Term of patent 3½ years.



The ornamental design for a toy animal as shown.

55,964. COMBINED MUFFLER AND CUT-OUT. GEORGE H. TABER, Binghamton, N. Y. Filed Sept. 13, 1919. Serial No. 323,663. Term of patent 14 years.



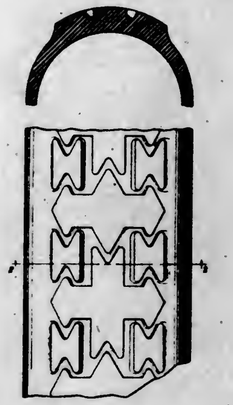
The ornamental design for a combined muffler and cut-out, as shown.

55,965. SHIELD, BADGE, BUTTON, PIN, OR SIMILAR ARTICLE. WALTER J. TENNENT, Norfolk, Va. Filed June 20, 1917. Serial No. 175,828. Term of patent 3½ years.



The ornamental design for a shield, badge, button, pin, or similar article, as shown and described.

55,966. PNEUMATIC-TIRE TREAD. JAMES D. TEW, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 26, 1920. Serial No. 384,476. Term of patent 7 years.



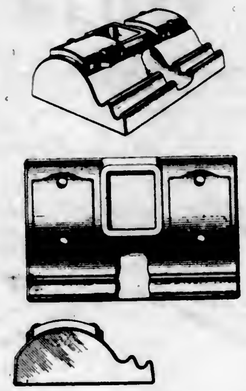
The ornamental design for a pneumatic tire tread as shown.

55,967. INKSTAND. FRANK A. WEEKS, Plainfield, N. J. Filed Mar. 15, 1920. Serial No. 366,109. Term of patent 14 years.



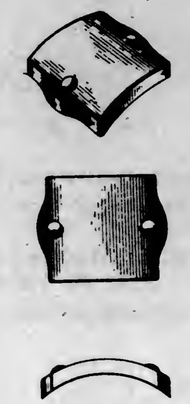
The ornamental design for an inkstand, as shown.

55,968. INKSTAND. FRANK A. WEEKS, Plainfield, N. J. Filed Mar. 15, 1920. Serial No. 366,110. Term of patent 14 years.



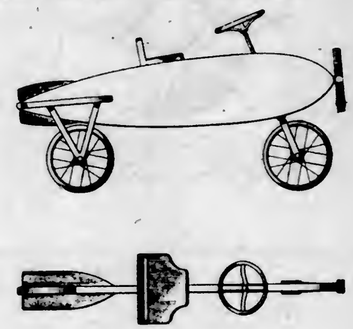
The ornamental design for an inkstand, as shown.

55,969. COVER FOR INKSTANDS. FRANK A. WEEKS, Plainfield, N. J. Filed Mar. 19, 1920. Serial No. 367,209. Term of patent 14 years.



The ornamental design for a cover for inkstands, as shown.

55,970. TOY VEHICLE. GEORGE E. WORTH, Rochester, N. Y. Filed Apr. 16, 1920. Serial No. 374,476. Term of patent 7 years.



The ornamental design for a toy vehicle, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 3, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 104,138. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LIQUID CARBONIC COMPANY, Chicago, Ill. Filed May 29, 1917.

GLOW

Consisting in the word "Glow."

Particular description of goods.—Flavoring-Syrups for Carbonated and Uncarbonated Water—Namely, Grape Syrup, Lemon Syrup, Orange Syrup, Cherry Syrup, and Loganberry Syrup.

Claims use since Nov. 27, 1916.

Ser. No. 104,140. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LIQUID CARBONIC COMPANY, Chicago, Ill. Filed May 29, 1917.



Particular description of goods.—Beverages, Non-Alcoholic—Namely, Root-Beer, Ginger-Ale; Syrup for Non-Alcoholic Beverages—Namely, Lemon Syrup, Orange Syrup, Cherry Syrup, Loganberry Syrup, a Special Sugar Syrup Flavored with Grape and Cider Commercially Termed "Lico Syrup," and Grape Syrup.

Claims use since June 25, 1916.

Ser. No. 106,632. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. W. FARROW, Moline, Kans. Filed Oct. 6, 1917.

A. B. C.

Particular description of goods.—Liquid Preparation to be Used Internally for Boils and Carbuncles.

Claims use since Aug. 1, 1917.

Ser. No. 108,421. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MR. AND MRS. CHAS. W. TAYLOR, Louisville, Ky. Filed Jan. 11, 1918.



Particular description of goods.—Preparation for the Treatment of Consumption.

Claims use since Dec. 19, 1917.

Ser. No. 108,945. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) KOLB BREWING CO., Bay City, Mich. Filed Feb. 11, 1918.

Cer-ola

Particular description of goods.—Non-Alcoholic Cereal Beverage of a Malt Nature Containing Less Than One-Half of One Per Cent. of Alcohol Sold as a Soft Drink.

Claims use since June 1, 1917.

Ser. No. 111,128. (CLASS 37. PAPER AND STATIONERY.) J. C. BLAIR COMPANY, Huntingdon, Pa. Filed May 23, 1918.



Particular description of goods.—Writing-Tablets, Pencil-Tablets, Drawing-Tablets, Spelling-Tablets, and Blank-Books.
Claims use since Feb. 12, 1918.

Ser. No. 112,365. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PROGRESS GROCERY COMPANY INC., New Orleans, La. Filed July 27, 1918.



It makes no claim however to the word "Il Progresso."
Particular description of goods.—Canned Egg-Plant, Canned Natural Tomato Paste with Sweet Basil, and Canned Seasoning for Macaroni.
Claims use since July, 1909.

Ser. No. 113,221. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ADVANCE AUTOMOBILE ACCESSORIES CORP., Chicago, Ill. Filed Sept. 18, 1918.

White Stripe

Particular description of goods.—Fabric Linings for Transmissions and Brakes.
Claims use since about Sept. 0, 1918.

Ser. No. 113,916. (CLASS 32. FURNITURE AND UPHOLSTERY.) HARVEY & COMPANY, Huntington, W. Va. Filed Oct. 28, 1918.

PATRIOT

Particular description of goods.—Store Furniture—Namely, Shelving, Counters, Show-Cases, Bins, Wall and Floor Cabinets, Article-Exhibitors, Partitions, and Turnstiles.
Claims use since July 23, 1918.

Ser. No. 115,047. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAYMOND E. TAYLOR, Portland, Oreg. Filed Jan. 8, 1919.

TAKARA

Particular description of goods.—Ointment for Bruises, Cuts, Eczema, Piles, Scalds, Sores, and Sunburn; Liniment for Rheumatism, Cuts, Sprains, Wounds, Neuralgia, Headache, Sores, Corns, Bunions, Bruises, Lame Back, and Stiff Joints.
Claims use since Jan. 1, 1915.

Ser. No. 115,345. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EYE BRAND CONFECTIONERY, INC., Brooklyn, N. Y. Filed Jan. 21, 1919.

EYE



Particular description of goods.—Candies.
Claims use since Aug. 15, 1913.

Ser. No. 115,346. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EYE BRAND CONFECTIONERY, INC., Brooklyn, N. Y. Filed Jan. 21, 1919.

COCOANUT MELLOW

No claim being made to the words "Cocoanut Mellow" apart from the mark shown in the drawing.
Particular description of goods.—Candies.
Claims use since Mar. 1, 1917.

Ser. No. 115,496. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERNOFF COMPANY, San Francisco, Calif. Filed Jan. 28, 1919.

CHERNOFF

Particular description of goods.—Cosmetics—Namely, Rejuvenating-Powder, Nite-Cream, Antiseptic and Bleaching Lotion; Rouge in Paste Form; Rouge in Dry Form, Lip-Stick Rouge, Face-Powder, Liquid Powder, Acne-Cream, Whitening-Cream, Shampoo, and Cleansing-Cream.
Claims use since May 1, 1917.

Ser. No. 115,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DENTHOL COMPANY, Louisville, Ky. Filed Jan. 30, 1919.

DENTHOL

Particular description of goods.—Antiseptic Mouth and Tooth Wash.
Claims use since prior to November, 1917.

Ser. No. 116,201. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) EAST END TIRE COMPANY, INC., Pittsburgh, Pa. Filed Feb. 28, 1919.

FIX-IT

Particular description of goods.—Automobile-Tire Accessories—Namely, Tubes, Tube-Repair Patches, Both Rubber and Khaki Back, and Blow-Out Patches.
Claims use since Jan. 10, 1919.

Ser. No. 116,584. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE QUEEN CITY MARSHMALLOW AND SYRUP COMPANY, Cincinnati, Ohio. Filed Mar. 14, 1919.

CINCI-COLO

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Mar. 6, 1919.

Ser. No. 116,872. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN CHICLE COMPANY, Jersey City, N. J., and New York, N. Y. Filed Mar. 25, 1919.

REGAL MINTS

No claim being made to the exclusive use of the word "Mints."
Particular description of goods.—Mints in Tablet Form.
Claims use since about Mar. 1, 1915.

Ser. No. 116,912. (CLASS 37. PAPER AND STATIONERY.) TRUSSELL MANUFACTURING CO., Poughkeepsie, N. Y. Filed Mar. 25, 1919.

$ My Finances $

Particular description of goods.—Account-Book.
Claims use since Dec. 13, 1918.

Ser. No. 117,801½. (CLASS 38. PRINTS AND PUBLICATIONS.) BALTIMORE BARGAIN HOUSE, Baltimore and Cumberland, Md. Filed Apr. 24, 1919.

Baltimore Price Reducer

Particular description of goods.—Monthly Publications.
Claims use since August, 1916.

Ser. No. 118,042. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BELL MANUFACTURING COMPANY, INC., Richmond, Va. Filed May 1, 1919.

Kool-O-Lene

Particular description of goods.—A Liquid Gasolene-Intensifier.
Claims use since Aug. 1, 1918.

Ser. No. 118,210. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JENSEN & SONS MILLING & GRAIN CO., Nelson, Nebr. Filed May 6, 1919.

CENTURY

Particular description of goods.—Wheat-Flour.
Claims use since Nov. 15, 1899.

Ser. No. 118,327. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PALATINE ANILINE & CHEMICAL CORPORATION, Poughkeepsie, N. Y. Filed May 9, 1919.

Palaside

Particular description of goods.—Dyes.
Claims use since Nov. 1, 1918.

Ser. No. 118,330. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PALATINE ANILINE & CHEMICAL CORPORATION, Poughkeepsie, N. Y. Filed May 9, 1919.

Chromindo

Particular description of goods.—Dyes.
Claims use since June 1, 1918.

Ser. No. 118,428. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CROWN CORK AND SEAL COMPANY OF BALTIMORE CITY, Baltimore, Md. Filed May 13, 1919.

The CROWN of Baltimore

Particular description of goods.—Monthly Publications Directed to the Bottling Trade.
Claims use since about Jan. 1, 1919.

Ser. No. 118,991. (CLASS 39. CLOTHING.) THE GRATON & KNIGHT MANUFACTURING COMPANY, Worcester, Mass. Filed May 28, 1919.

G&K

Particular description of goods.—Aprons, Box-Toes, Insoles, Leggings, Mittens, Outsoles, Shoe-Counters, Shoe-Heels, Sandal-Soles, and Weltings, All of Leather.
Claims use since Mar. 1, 1907.

Ser. No. 119,054. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TANNERS OIL AND SUPPLY COMPANY, Newark, N. J. Filed May 29, 1919.

Tosco

Particular description of goods.—Chemicals, Vegetable Extracts, Mordants, and Finishing Agents to be Used in Tanning and Finishing Leather.
Claims use since April, 1919.

Ser. No. 119,216. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SKAT COMPANY, Hartford, Conn. Filed June 4, 1919.

SKAT
KITCHENBRITE

Particular description of goods.—A Soap of Paste-Like Consistency.
Claims use since Mar. 22, 1919.

Ser. No. 119,282. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. V. B. COMPANY, Denver, Colo. Filed June 6, 1919.

V. V. B

No claim being made to the words "Vapor Balm" apart from the mark shown in drawing.
Particular description of goods.—Medicine for Catarrh, Colds in the Head, Tonsillitis, Croup, Asthma, Hay-Fever, Chest-Colds, &c.
Claims use since about Oct. 1, 1918.

Ser. No. 119,523. (CLASS 37. PAPER AND STATIONERY.) LEDDER & PROBST, INC., Boston, Mass. Filed June 12, 1919.

CLOVER

Particular description of goods.—Holders for Ink-Bottles.
Claims use since June 20, 1912.

Ser. No. 119,584. (CLASS 37. PAPER AND STATIONERY.) STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed June 13, 1919.

Alpine

Particular description of goods.—Cover-Paper, Book-Paper, Cardboard, Pasteboard, and Writing-Papers Including Bonds, Linens, and Ledgers.
Claims use since June 1, 1918.

Ser. No. 119,737. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CHEMICAL NATIONAL BANK OF NEW YORK, New York, N. Y. Filed June 18, 1919.



Particular description of goods.—Weekly Bulletins, Serial Publications, and Periodical Reports—viz., *Personal Income Tax Law*, Published Annually; *Income and Excess Profits Taxes*, Published Annually; *Exchange Rates*, Published Monthly; *Bankers' Acceptances and Trade Acceptances*, Published Annually.
Claims use since June 20, 1917.

Ser. No. 119,821. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD CURETON, San Francisco, Calif., assignor to John B. Studdert. Filed June 21, 1919.

PYOSTRIN

Particular description of goods.—An Astringent Treatment for Sore Soft Bleeding Gums, Loose Teeth, and Lesions of Pyorrhea.
Claims use since Apr. 19, 1919.

Ser. No. 119,878. (CLASS 37. PAPER AND STATIONERY.) WILLIAMS, DAVIS, BROOKS & HINCHMAN SONS, Detroit, Mich. Filed June 23, 1919.

Midco

Particular description of goods.—Paper Tablets.
Claims use since May 1, 1919.

Ser. No. 119,890. (CLASS 39. CLOTHING.) KNOXVILLE KNITTING MILLS COMPANY, Knoxville, Tenn. Filed June 24, 1919.

MACONA

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since the year 1912.

Ser. No. 119,954. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEWTON LEWIS, Fort Myers, Fla. Filed June 25, 1919.



No claim is made to the words "Shampoo" and "Trade-Mark" apart from the mark shown by the drawing. In the drawing the representations of the three minor children comprising a part of the mark are portraits of the applicant's children, of which he is their natural guardian.
Particular description of goods.—Shampoo.
Claims use since Mar. 1, 1919.

Ser. No. 119,957. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HELEN MAZIERSKA, Buffalo, N. Y. Filed June 25, 1919.

PARADISE BUDS

Consists of the words "Paradise Buds" lined as shown to represent shading.
Particular description of goods.—A Hair-Tonic.
Claims use since Oct. 1, 1918.

Ser. No. 121,749. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CEREAL PRODUCTS REFINING COMPANY, San Francisco, Calif. Filed Aug. 18, 1919.

PEERLESS

No claim is made to the word "Peerless" apart from the other features of the mark shown on the drawing.
Particular description of goods.—Yeast.
Claims use since July 1, 1919.

Ser. No. 122,082. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL OIL PRODUCTS CO., Harrison, N. J. Filed Aug. 28, 1919.

SPECIFICATION

Particular description of goods.—Turkey-Red Oils, Sulforated Castor-Oils, Sulfonated Corn-Oils, Gallipo Oils, for Dyeing Processes, Oils Suitable for the Treatment of Wool, and Emulsified Oils Suitable for the Treatment of Textiles.
Claims use since June 12, 1919.

Ser. No. 122,132. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) OLDHAM NEW YORK SAW WORKS INC., Brooklyn, N. Y. Filed Aug. 29, 1919.



The lining being intended to represent shading and no claim being made to the exclusive right to the use of the representations of the two saws and the words "Electro Steel," "True Temper," and "Electric" apart from the mark shown in the drawing.
Particular description of goods.—Circular, Band, Hand, and Crosscut Saws.
Claims use since Apr. 15, 1919.

Ser. No. 122,347. (CLASS 6. CHEMICALS, MEDICINES, AND PHARAMCEUTICAL PREPARATIONS.) DAVIES, ROSE & CO., LTD., Boston, Mass. Filed Sept. 5, 1919.

MACKLISTER

The word "Macklister."
Particular description of goods.—Antiseptic Throat-Wash and Gargle Powder and Tablets.
Claims use since September, 1910.

Ser. No. 122,348. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTIAL PREPARATIONS.) DAVIES, ROSE & CO., LTD., Boston, Mass. Filed Sept. 5, 1919.

ARVONIA

The word "Arvonia."
Particular description of goods.—Pile Treatment, Consisting of a Tube of Pile-Ointment, an Envelop of Antiseptic Pile-Powder for Making a Wash, and a Vial of Laxative Pills.
Claims use since October, 1912.

Ser. No. 122,349. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIES, ROSE & CO., LTD., Boston, Mass. Filed Sept. 5, 1919.

Davies

The word "Davies" which is the facsimile signature of John W. Davies.
Particular description of goods.—Indigestion-Powders.
Claims use since February, 1915.

Ser. No. 122,428. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JOSEPH J. FREADRICH, St. Louis, Mo. Filed Sept. 8, 1919.

UNIVERSAL

I disclaim its use on rubber, canvas, and rubber and canvas belting.
Particular description of goods.—Leather Belting.
Claims use since December, 1907.

Ser. No. 122,942. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEGGY HOYT, INC., New York, N. Y. Filed Sept. 20, 1919.

Peggy Hoyt Flowers

No claim being made, however, to the exclusive use of the word "Flowers" except in association with said trade-mark. Said trade-mark is a facsimile of the words "Peggy Hoyt Flowers" in the handwriting of Peggy Hoyt, the president of said Peggy Hoyt, Inc.
Particular description of goods.—Perfume, Toilet Water, Cold-Cream, Face-Powder, Talcum Powder, Sachet-Powder.
Claims use since Jan. 12, 1916.

Ser. No. 123,182. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAY QUINCY STEPHENS, Kansas City, Mo. Filed Sept. 26, 1919.

GOLDEN GEM

Particular description of goods.—Ice-Cream Cones.
Claims use since Mar. 12, 1919.

Ser. No. 123,835. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN ORIENTAL SALES CORPORATION, Seattle Wash. Filed Oct. 16, 1919.



Particular description of goods.—Canned Fish.
Claims use since about June 1, 1919.

Ser. No. 123,909. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUPER SEAL SERVICE, INC., New York, N. Y. Filed Oct. 17, 1919.

SUPER SEAL

Particular description of goods.—Drugs, Chemicals, Druggists' Supplies and Sundries.
Claims use since Aug. 4, 1919.

Ser. No. 123,983. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL CONSOLIDATED CHEMICAL CORPORATION, INC., New York, N. Y. Filed Oct. 20, 1919.

Pan-Zenn

Particular description of goods.—Anti-Acid Carminative Stimulant to the Stomach and Digestive Tract.
Claims use since the beginning of October, 1919.

Ser. No. 124,036. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONSTANCE E. YORKE, Southsea, England. Filed Oct. 20, 1919.



The words "Science," "Natural Youthful Colour Restored," "No Dye," "No Soil," "No Stain," "Concentrate," and "Defeat of Time" are now disclaimed.
Particular description of goods.—A Preparation for Restoring Hair to Its Natural Color.
Claims use since Oct. 17, 1917.

Ser. No. 124,180. (CLASS 5. ADHESIVES.) ARO-MACO PRODUCTS CO., West Hoboken, N. J. Filed Oct. 24, 1919.

STIKTITE



No claim is made to the word "Cement" disassociated from the trade-mark illustrated. The word "Stik-Tite" is not claimed herein disassociated from the mark shown.
Particular description of goods.—Mucilage, glue, or Library-Paste.
Claims use since Sept. 19, 1919.

Ser. No. 124,314. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHEPARD FRUIT PRODUCTS COMPANY, Wenatchee, Wash. Filed Oct. 29, 1919.

Mrs. H. A. Shepard

Particular description of goods.—Flaked and Cooked Fruits.
Claims use since Aug. 4, 1919.

Ser. No. 124,360. (CLASS 2. RECEPTACLES.) SOUTHERN NOVELTY COMPANY, Hartsville, S. C. Filed Oct. 30, 1919.

SONOCO

Particular description of goods.—Paper Cones and Paper Tubes Adapted and Intended to Receive and Carry on Their Outer Surface a Body Composed of Windings of Yarn or other Material, Cylindrical Paper Tubes Adapted to Receive and Carry Windings of Yarn or other Material on the Outer Surface; Cylindrical Paper Tubes to Act as a Casing or Container, with or without End Caps, for Articles Placed Inside of Them, Such as Mail or for Any other Use; Paper Mailing-Cases to Contain and Inclose Articles or Materials or Packages of Said Articles or Materials, Paper Cans and Composite Paper and Tin Cans Embodying a Receptacle with a Closure Adapted to Contain and Hold Various Materials or Things or for Use as a Casing Around other Receptacles.
Claims use since Oct. 1, 1915.

Ser. No. 124,656. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AIME LEVAC, Montreal, Quebec, Canada. Filed Nov. 7, 1919.



Particular description of goods.—Anti-Insect Powders.
Claims use since Mar. 2, 1917.

Ser. No. 124,775. (CLASS 37. PAPER AND STATIONERY.) F. B. DALLAM, San Francisco, Calif. Filed Nov. 11, 1919.

"CARO" FIBRE

No claim being made to the exclusive use of the word "Fibre" apart from the mark as shown in the drawing.
Particular description of goods.—Wrapping-Paper.
Claims use since Dec. 1, 1912.

Ser. No. 124,890. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRAND UNION TEA CO., Brooklyn, N. Y. Filed Nov. 14, 1919.

GRAND UNION

Particular description of goods.—Toilet Water, Soda, Lump-Starch, Cream of Tartar, Ammonia, Liquid and Solid Laundry Blue, Cold-Cream, and Talcum-Powder.
Claims use since about 1893.

Ser. No. 125,226. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES C. GODDARD, Tulsa, Okla. Filed Nov. 24, 1919.



Particular description of goods.—A Salve Used in the Treatment of Chronic Sores, Old Chronic Sores, and All Sores That the Human Flesh is Heir to.
Claims use since Jan. 1, 1919.

Ser. No. 125,262. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THORNTON-THOMAS, Roanoke, Va. Filed Nov. 24, 1919.

F·W·T·
Victory Salve

No claim being made to the word "Salve" apart from the mark as shown.
Particular description of goods.—Salve Used in the Treatment of Pneumonia and Influenza.
Claims use since Sept. 15, 1919.

Ser. No. 125,673. CLASS 39. CLOTHING.) RENAISSANCE CORSET COMPANY, INC., New York, N. Y. Filed Dec. 6, 1919.

RENAISSANCE

Particular description of goods.—Corsets.
Claims use since May 16, 1919.

Ser. No. 125,747. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GERALD M. DE WALTOFF, Brooklyn, N. Y. Filed Dec. 9, 1919.



Particular description of goods.—Healing-Salve, Yellow Eye-Salve, Cold, La Grippe and Cough Combination, Corn-Remover, Eye-Wash, Tooth-Paste, Laxative Tablets; Face, Hand, and Lip Lotion; Anti-Influenza Cream, and a Tonic for Upbuilding, Strengthening, Rejuvenating and Toning Up the Human Body.
Claims use since January, 1902.

Ser. No. 125,774. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CAPEN BELTING & RUBBER COMPANY, St. Louis, Mo. Filed Dec. 10, 1919.

NE-PAC

Particular description of goods.—Leather Belting, Rubber Belting, Balata Belting, Fabric Belting, Belt-Lacing, Rubber Hose, Fabric Hose, Pneumatic and Solid Rubber Tires, Rubber and Fabric Packing, Rubber and Fabric Gaskets, Rubber Composition and Fabric Valves, and Molded Rubber Ammonia-Rings.
Claims use since 1909.

Ser. No. 124,946. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUCIUS H. DANCY, Holly Springs, Miss. Filed Dec. 13, 1919.

Indian Queen

Consisting of the words "Indian Queen."
Particular description of goods.—A Preparation for the Treatment for the Hair—viz., a Pomade.
Claims use since Oct. 16, 1919.

Ser. No. 125,954. (CLASS 43. THREAD AND YARN.) FINLAYSON, BOUSFIELD & CO., LTD., Johnstone, Scotland. Filed Dec. 13, 1919.



Particular description of goods.—Yarn and Threads.
Claims use since October, 1874.

Ser. No. 126,035. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERMO CO., Chicago, Ill. Filed Dec. 15, 1919.

Hair-Lasto

Particular description of goods.—Hair-Dressing.
Claims use since Oct. 1, 1916.

Ser. No. 126,109. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIES, ROSE & CO. LTD., Boston, Mass. Filed Dec. 16, 1919.

RESPICOL

The word "Respicol."
Particular description of goods.—An Ointment for Skin Affections of the Human Body.
Claims use since January, 1910.

Ser. No. 126,110. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIES, ROSE & CO. LTD., Boston, Mass. Filed Dec. 16, 1919.

BUKOL

The word "Bukol."
Particular description of goods.—A Kidney Medicine in Pill and Liquid Form.
Claims use since January, 1915.

Ser. No. 126,114. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DALJAR MFG. CO., Boston, Mass. Filed Dec. 16, 1919.

DALJAR

The word "Daljar."
Particular description of goods.—Oils and Greases Used in Softening, Sizing, and Finishing Cordage, Yarns, and Textile Fabrics and Yarn-Grease.
Claims use since January, 1914.

Ser. No. 126,119. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GEORGE A. FERNLEY, Philadelphia, Pa. Filed Dec. 16, 1919.

NUDURA

Particular description of goods.—Roofing Made of Tin.
Claims use since Oct. 1, 1919.

Ser. No. 126,720. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY A. FOSTER, Rome, N. Y. Filed Jan. 2, 1920.



Particular description of goods.—A Kidney, Liver, and Bladder Tablet.
Claims use since Oct. 21, 1919.

Ser. No. 126,782. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN C. STALFORT & SONS, Baltimore, Md. Filed Jan. 3, 1920.

FLASH

Particular description of goods.—Boot and Shoe Dye—Namely, Black Dye and Cordovan-Dye for Dyeing and Staining Fabric and Leather Boots and Shoes, and Boot and Shoe Powder Used for Lessening Friction and Cooling the Feet.
Claims use since January, 1915, on some items and January, 1906, on other items.

Ser. No. 127,050. (CLASS 39. CLOTHING.) FOX RIVER VALLEY KNITTING COMPANY, Appleton, Wis. Filed Jan. 12, 1920.



The circle in the drawing is lined to indicate blue.

Particular description of goods.—Socks for Men and Children.

Claims use since Sept. 5, 1900.

Ser. No. 127,180. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MILES C. GRIZZELLE, Le Roy, Ill. Filed Jan. 15, 1920.

POPLARHURST



Particular description of goods.—White Collies Intended for Breeding Purposes and Corn, Wheat, and Oats and Legumes Intended for Seed Purposes.

Claims use since the 29th of October, 1919.

Ser. No. 127,220. (CLASS 31. FILTERS AND REFRIGERATORS.) ISAAC F. STEVENS, Nashua, N. H. Filed Jan. 16, 1920.

KLONDIKE

Particular description of goods.—Refrigerators.

Claims use since Sept. 1, 1897.

Ser. No. 127,233. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK H. ATKINSON, Canton, Ohio. Filed Jan. 17, 1920.



No claim is made for the word "Ointments" apart from the mark on the drawing.

Particular description of goods.—Healing-Ointment, Catarrh-Ointment, Pile-Ointment, and Gonorrhea and Gleet Ointment.

Claims use since about Mar. 20, 1916.

Ser. No. 127,248. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) S. E. KAUFMAN, Trenton, N. J. Filed Jan. 17, 1920. Under ten-year proviso.



Particular description of goods.—Clothesline-Props.

Claims use since Jan. 1, 1895.

Ser. No. 127,295. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) RICHARD L. LLOYD, Minneapolis, Minn. Filed Jan. 19, 1920.

Magnetic Tenup

No claim being made to the word "Magnetic" apart from the mark shown.

Particular description of goods.—Toy Bowling-Game Apparatus.

Claims use since Dec. 6, 1919.

Ser. No. 127,353. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BROWN CHEMICAL CO., St. Louis, Mo. Filed Jan. 20, 1920.



BETTY BROWN

The picture of the girl being fanciful.

Particular description of goods.—Toilet Preparations—Namely, Face-Powder, Talcum Powder, Face-Lotion, Rose Jelly, Almond Cream, Hair-Oil, Quinin Hair-Tonic, Liquid Shampoo, Toilet Water, Perfume, Tooth-Paste, Massage-Paste, Cold-Cream.

Claims use since Nov. 1, 1918.

Ser. No. 127,674. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARGUIMBAU & RAMÉE INC., New York, N. Y. Filed Jan. 28, 1920.



No claim being made to the words "Spanish Olives" apart from the mark as shown in the drawing.

Particular description of goods.—Olives.

Claims use since Feb. 27, 1918.

Ser. No. 127,736. (CLASS 37. PAPER AND STATIONERY.) NATIONAL ART COMPANY, New York, N. Y. Filed Jan. 29, 1920.

KOVERA

Particular description of goods.—Paper for Box-Coverings.

Claims use since June 16, 1919.

Ser. No. 127,908. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FUMIGO MANUFACTURING CO., Philadelphia, Pa. Filed Feb. 3, 1920.

FUM-I-GO

Particular description of goods.—Fumigating Compound.

Claims use since Aug. 6, 1914.

Ser. No. 127,970. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNA M. MCGLUMPHY, Kenmore, Ohio. Filed Feb. 4, 1920.



Particular description of goods.—Cold-Cream, Face-Cream, Talcum and Face Powder.

Claims use since Jan. 15, 1920.

Ser. No. 127,974. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN L. NEWKIRK & COMPANY, New York, N. Y. Filed Feb. 4, 1920.



The applicant disclaims the exclusive right to the use of the word "Vermifugo" apart from its use in connection with the mark as shown.

Particular description of goods.—Worm-Syrup.

Claims use since Oct. 29, 1919.

Ser. No. 128,083. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIS-BOURNONVILLE COMPANY, New York, N. Y., and Jersey City, N. J. Filed Feb. 7, 1920.

DEEBEE

Particular description of goods.—Flux-Powder for Welding Aluminum.

Claims use since May, 1919.

Ser. No. 128,252. (CLASS 38. PRINTS AND PUBLICATIONS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Printed Books, Visiting-Cards, Announcements, Invitations, Menus, Greeting-Cards, Certificates, Completely Printed or Engraved Dance-Orders and Diplomas, Labels upon Which Book-Plates Have Been Printed or Engraved, Programs, and Calendars.
Claims use since 1892.

Ser. No. 128,266. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. B. FENTON, (M. D. C.,) Olin, Iowa. Filed Feb. 11, 1920.



The words "None Genuine Without" and "Brand" not being claimed, the color of the mark being red.
Particular description of goods.—Medical Compounds for Use in the Treatment of Diseases of the Hog, Horse, Cattle, Sheep, and Poultry.
Claims use since Jan. 26, 1920.

Ser. No. 128,278. (CLASS 39. CLOTHING.) VICTOR SAYER, New York, N. Y. Filed Feb. 11, 1920.

Sayerknit SUPERSWEATERS

The applicant hereby disclaims the exclusive use of the word "Knit" apart from the mark shown in the drawing. Applicant disclaims the word "Supersweaters."
Particular description of goods.—Knitted Garments—Namely, Sweaters, Bathing-Suits, Bathing-Trunks; Underwear for Men, Women, and Children in One and Two Piece Garments; Caps, Neckwear, Hosiery, Athletic Shirts, Gloves, Mittens, Shawls, Scarfs, and Combination Sets of Infants' Wear Containing Caps, Leggings, Breeches, and Coats.
Claims use since Nov. 1, 1919.

Ser. No. 128,453. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., New York, N. Y. Filed Feb. 16, 1920.

"WEEK-END"

Particular description of goods.—Silk Piece Goods, Cotton and Silk Goods in the Piece, Wool and Silk Goods in the Piece, Cotton Piece Goods, and Dress Fabrics—Namely, Voiles, Crapes, and Shirtings of Both Silk and Cotton in the Piece.
Claims use since Aug. 12, 1919.

Ser. No. 128,705. (CLASS 37. PAPER AND STATIONERY.) SALZ BROTHERS, New York, N. Y., assignors to Pencil Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 20, 1920.

STA-SHARP

Particular description of goods.—Magazine-Pencils.
Claims use since April, 1919.

Ser. No. 128,799. (CLASS 38. PRINTS AND PUBLICATIONS.) REVIEW PUBLISHING COMPANY, New York, N. Y. Filed Feb. 24, 1920.

The Carpet and Upholstery Trade Review and The Furniture Trade Review and Interior Decorator

Particular description of goods.—Monthly Publication.
Claims use since Jan. 15, 1920.

Ser. No. 128,826. (CLASS 39. CLOTHING.) BOWMAN-MOORE HAT COMPANY, Knoxville, Tenn. Filed Feb. 24, 1920.



Particular description of goods.—Caps and Hats for Men and Boys.
Claims use since the year 1910.

Ser. No. 128,827. (CLASS 39. CLOTHING.) BOWMAN-MOORE HAT COMPANY, Knoxville, Tenn. Filed Feb. 24, 1920.



Particular description of goods.—Hats and Caps for Men, Women, and Children.
Claims use since the year 1910.

Ser. No. 128,928. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) INTERNATIONAL FUR EXCHANGE, St. Louis, Mo. Filed Feb. 26, 1920.



No claim is made to the words "St. Louis Dressing & Dye" apart from the mark as shown in the drawing.
Particular description of goods.—Furs, Skins, Hides, and Pelts.
Claims use since Dec. 10, 1919.

Ser. No. 129,059. (CLASS 15. OILS AND GREASES.) GENERAL CANDLE MANUFACTURING CO., New York, N. Y. Filed Mar. 1, 1920.



The candle illustrated being disclaimed as part of said mark.
Particular description of goods.—Candles.
Claims use since Feb. 1, 1920.

Ser. No. 129,103. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 1, 1920.

HEATHERTONE

Particular description of goods.—Carriage-Cloth Made of Fabric and Rubber.
Claims use since Feb. 4, 1920.

Ser. No. 129,104. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 1, 1920.

VENTEEL

Particular description of goods.—Carriage-Cloth Made of Fabric and Rubber.
Claims use since Feb. 4, 1920.

Ser. No. 129,105. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 1, 1920.

YARNTEX

Particular description of goods.—Carriage-Cloth Made of Fabric and Rubber.
Claims use since Feb. 4, 1920.

Ser. No. 129,108. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 1, 1920.

MILLHYDE

Particular description of goods.—Carriage-Cloth Made of Fabric and Rubber.
Claims use since Feb. 4, 1920.

Ser. No. 129,244. (CLASS 39. CLOTHING.) PEARL KNITTING CO. INC., New York, N. Y. Filed Mar. 4, 1920.

PEARL KNIT

Fashion's Rarest for Nature's Fairest

The right to the exclusive use of the words "Knit" and "Fashion's Rarest for Nature's Fairest" is hereby disclaimed apart from the mark shown.

Particular description of goods.—Sweaters, Neckwear, Caps, Booties, Gloves Made of Fabric, Socks, and Knitted or Woven Underwear in Two or Three Pieces for Men, Women, and Children.

Claims use since Oct. 20, 1919.

Ser. No. 129,277. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE OHIO STATE RUBBER TIRE CO., Port Clinton, Ohio. Filed Mar. 5, 1920.



No claim being made to the words "Port Clinton, Ohio," and "Columbus" and to the representation of a tire apart from the mark shown.

Particular description of goods.—Pneumatic Rubber Tires and Inner Tubes.

Claims use since Jan. 2, 1920.

Ser. No. 129,466. (CLASS 39. CLOTHING.) PHILIP MANGONE CO., New York, N. Y. Filed Mar. 9, 1920.

Mangone NEW YORK LYNN PARK TAILLEUR

No claim being made to the exclusive use of the words "New York" and "Lynn Park Tailleur" apart from the mark shown in the drawing.

Particular description of goods.—Ladies' Suits and Coats.

Claims use since Dec. 15, 1919.

Ser. No. 129,899. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILLIAM M. LLOYD COMPANY, Philadelphia, Pa. Filed Mar. 18, 1920.

LLOYD

Consisting of a black circle with the upright form of a tree (indicated by vertical green stripes) superimposed upon the upper half of said circle, with the top of the tree extending slightly above the top of the circumference of said circle; also superimposed upon said circle and in line with the horizontal diameter thereof and across the root and trunk of said superimposed tree the block letters "Lloyd."

Particular description of goods.—Coal.

Claims use since Mar. 31, 1917.

Ser. No. 129,910. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 18, 1920.

NAUGATOP

Particular description of goods.—Carriage-Cloth Made of Fabric and Rubber.

Claims use since Feb. 4, 1920.

Ser. No. 129,911. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 18, 1920.

RAYNBAR

Particular description of goods.—Carriage-Cloth Made of Fabric and Rubber.

Claims use since Mar. 10, 1920.

Ser. No. 129,913. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 18, 1920.

SUPERTEX

Particular description of goods.—Carriage-Cloth Made of Fabric and Rubber.

Claims use since Feb. 19, 1920.

Ser. No. 130,089. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EARL V. DOGAN, Washington, D. C. Filed Mar. 23, 1920.

ECONOMY CLEANER ECONOMY CLEANER CO. MFG. BY WASHINGTON, D.C.

No claim being made to the words "Cleaner, Washington, D. C." apart from the mark shown on the drawing, the portrait shown on the drawing being that of the applicant.

Particular description of goods.—A Scouring Preparation for Removing Grease and Stains from Clothing, Carpets, Woodwork, and Cleaning Metal Surfaces.

Claims use since Mar. 15, 1920.

Ser. No. 130,163. (CLASS 39. CLOTHING.) P. FEINSTEIN & SONS, New York, N. Y. Filed Mar. 25, 1920.

Admiration

Particular description of goods.—Clothing for Outer Wear for Men, Consisting of Trousers, Waistcoats, Coats, and Overcoats.

Claims use since June 1, 1919.

Ser. No. 130,467. (CLASS 38. PRINTS AND PUBLICATIONS.) JOHN F. DRAUGHON, Nashville, Tenn. Filed Apr. 1, 1920.

ACCREDITED THE DRAUGHON BUSINESS COURSES

No claim being made to any exclusive right to the use of the words "Accredited Business Courses" aside from the mark shown.

Particular description of goods.—Printed Books.

Claims use since about Dec. 20, 1919.

Ser. No. 130,527. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) DRYDEN RUBBER COMPANY, Chicago, Ill. Filed Apr. 2, 1920.

Gold Seal

Particular description of goods.—Rubber Automobile Tires and Inner Tubes.

Claims use since Mar. 17, 1920.

Ser. No. 130,674. (CLASS 37. PAPER AND STATIONERY.) J. E. M. PRODUCTS LABORATORIES, Chicago, Ill. Filed Apr. 5, 1920.

J.E.M. Tap Tap Tap

Particular description of goods.—Mucilage Holder and Applier.

Claims use since Nov. 5, 1919.

Ser. No. 130,712. (CLASS 39. CLOTHING.) ARBUTHNOT-STEPHENSON CO., Pittsburgh, Pa. Filed Apr. 6, 1920.

STEEL CITY

Consisting of the words "Steel City."

Particular description of goods.—Work-Clothes—viz., Shirts and Overalls.

Claims use since Feb. 20, 1920.

Ser. No. 130,752. (CLASS 38. PRINTS AND PUBLICATIONS.) COSSITT AND COMPANY, San Francisco, Calif. Filed Apr. 7, 1920.

Cossigraph Re-production

No claim is made to the word "Re-production" apart from the other features of the mark shown on the drawing.

Particular description of goods.—Photographic Reproductions, Photographic Prints.

Claims use since Oct. 20, 1919.

Ser. No. 130,780. (CLASS 38. PRINTS AND PUBLICATIONS.) WALTHAM WATCH COMPANY, Waltham, Mass. Filed Apr. 7, 1920.

MINUTES

Particular description of goods.—A Periodical Publication Published Monthly Except in July of Each Year.
Claims use since about Jan. 1, 1920.

Ser. No. 130,846. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) J. HARRY PARK, Warren, Pa. Filed Apr. 8, 1920.

BING-GO

Particular description of goods.—Baseball-Bats.
Claims use since the year 1906.

Ser. No. 130,847. (CLASS 39. CLOTHING.) PATERSON BREWING AND MALTING COMPANY, Paterson, N. J. Filed Apr. 8, 1920.

IVY

Particular description of goods.—Hosiery.
Claims use since Mar. 29, 1920.

Ser. No. 130,949. (CLASS 37. PAPER AND STATIONERY.) CHICAGO GUM TAPE COMPANY, Chicago, Ill. Filed Apr. 10, 1920.



Without waiving any rights applicant may have under the common law it does not for the purpose of this application claim exclusive right to the representation of a roll of tape or the word "Tapes" except in the form shown in the drawing.

Particular description of goods.—Gummed and Ungummed Paper-Sealing Veneer and Stay-Tapes.
Claims use since prior to June 17, 1917.

Ser. No. 131,086. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) NICHOLS COPPER CO., New York, N. Y. Filed Apr. 13, 1920.



Particular description of goods.—Electrolytic Copper.
Claims use since Oct. 1, 1919.

Ser. No. 131,168. (CLASS 43. THREAD AND YARN.) THE H. K. H. SILK CO. OF NEW YORK, INC., New York, N. Y. Filed Apr. 15, 1920.



The representation of the spool of thread and the words "Warranted," "Sublime Quality," and the numeral and abbreviation "100 Yds." are disclaimed apart from the mark as shown.

Particular description of goods.—Natural and Artificial Silk Threads and Yarns.
Claims use since Oct. 1, 1916.

Ser. No. 131,179. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) LINCOLN TIRE & RUBBER CO., Cleveland, Cincinnati, Dayton, Youngstown, Toledo, Piqua, and Troy, Ohio, and Miami, Fla. Filed Apr. 15, 1920.



Particular description of goods.—Rubber Vehicle-Tires, Casings, and Tubes.
Claims use since Feb. 1, 1920.

Ser. No. 131,372. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ATLANTIC RUBBER MFG. CORPORATION, New York, N. Y. Filed Apr. 20, 1920.



Particular description of goods.—Dental Rubber, Dental Dam, Bulbs for Dental Use, and Plaster-Bowls.
Claims use since Apr. 2, 1920.

Ser. No. 131,377. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TOD BACKE, Brooklyn, N. Y. Filed Apr. 20, 1920.

Selco

"Selco."
Particular description of goods.—Candles.
Claims use since Mar. 1, 1919.

Ser. No. 131,380. (CLASS 10. FERTILIZERS.) CENTRAL CHEMICAL COMPANY, Hagerstown, Md. Filed Apr. 20, 1920.



Particular description of goods.—Fertilizing Compounds.
Claims use since Dec. 29, 1919.

Ser. No. 131,393. (CLASS 39. CLOTHING.) C. KENYON COMPANY, Brooklyn, N. Y. Filed Apr. 20, 1920.

Leathereign

Particular description of goods.—Men's, Women's, and Children's Outer Coats, Overcoats, Raincoats, Vests, and Capes.
Claims use since Jan. 1, 1920.

Ser. No. 131,439. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTH AMERICAN FISHERIES & COLD STORAGE LTD., Liverpool, Nova Scotia, Canada. Filed Apr. 21, 1920.



The descriptive word "Brand" shown on the said drawing is herewith disclaimed.

Particular description of goods.—Frozen, Smoked, Salted, and Fresh Fish.
Claims use since the 15th day of June, 1919.

Ser. No. 131,457. (CLASS 39. CLOTHING.) S. WASHAUER, San Francisco, Calif. Filed Apr. 21, 1920.



Particular description of goods.—Clothing, Particularly Overalls, Work-Shirts, and Pants.
Claims use since Mar. 20, 1920.

Ser. No. 131,487. (CLASS 39. CLOTHING.) JOHN LURIE, INC., New York, N. Y. Filed Apr. 22, 1920.



No claim being made to the word "Mufti" except in the form and association shown.

Particular description of goods.—Men's Golf and Motoring Suits, Golf-Coats and Golf-Knickers, Outing-Trousers, Riding-Breeches, Riding-Coats, Golf-Hose, Sweaters, Neckties, Caps and Hats, Top-Coats for Motoring, Dusters, Raincoats, and Leather Coats, Sweaters; Gloves Made of Leather, Rubber, and Fabric; Mufflers, Dress-Shirts; Vests Made of Chamois, Leather, and Wool; Hunting Hats, Breeches, and Coats; Leggings, and Shoes, and Women's Sport-Suits, Golf-Suits, and Tennis-Suits, Tennis-Skirts, Golf-Skirts, and Sport-Skirts, Sport-Waists, Sweaters, Mufflers, Hats, Gloves, Scarfs, Overcoats for Motoring, Raincoats, Dusters, and Leather Coats and Shoes.
Claims use since Mar. 31, 1920.

Ser. No. 131,502. (CLASS 5. ADHESIVES.) POMEROY INK MANUFACTURING CO., Newark, N. J. Filed Apr. 22, 1920. Under ten-year proviso.

POMEROY'S

Particular description of goods.—Mucilage, Paste, and Sealing-Wax.
Claims use since 1880.

Ser. No. 131,525. (CLASS 37. PAPER AND STATIONERY.) EBERHARD FABER, Brooklyn, N. Y. Filed Apr. 23, 1920. Applicant is the owner of trade-mark registration No. 102,396, dated Feb. 9, 1915.

VAN DYKE

Particular description of goods.—Lead-Pencils, Pencil-Lengtheners, Pencil-Erasers, and Penholders.
Claims use since Jan. 1, 1895, on pencils; since Dec. 3, 1914, on pencil-erasers; February, 1919, on pencil lengtheners, and Mar. 25, 1920, on penholders.

Ser. No. 131,570. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Apr. 24, 1920.

PONY BLIMP

No claim being made to the word "Blimp" apart from the mark shown in the drawing.
Particular description of goods.—Motor-Driven Balloons.
Claims use since Mar. 16, 1920.

Ser. No. 131,737. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) C. KENYON COMPANY, Brooklyn, N. Y. Filed Apr. 28, 1920.

Leathereign

Particular description of goods.—Waterproof Fabrics in the Piece.
Claims use since Oct. 21, 1919.

Ser. No. 131,755. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WILLIAM B. SWAYZEE, Winterset, Iowa. Filed Apr. 28, 1920.

MINT-SMILES
"It's The Smile That Makes You Happy"

No claim being made to the word "Mint" apart from the mark shown.
Particular description of goods.—Non-Alcoholic, Maltless, Non-Cereal Beverage to be Sold as a Soft Drink.
Claims use since Mar. 1, 1920.

Ser. No. 131,757. (CLASS 39. CLOTHING.) J. R. WAIST & DRESS CO., New York, N. Y. Filed Apr. 28, 1920.

Jazz Arz

Particular description of goods.—Ladies' and Misses' Outer Waists.
Claims use since March, 1916.

Ser. No. 131,765. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WANDELL CHOCOLATE COMPANY, INC., Baltimore, Md. Filed Apr. 28, 1920.

Miss America

Particular description of goods.—Candy, Chocolate-Covered Nuts, Nougat, Caramels, Cream Chocolates, Nuts in Cream, Chocolate-Covered Liquid Cordial Cherries and other Liquid Cordial Fruits, Italian Creams, Bonbons, and Assortment of the Above Varieties.
Claims use since Mar. 1, 1920.

Ser. No. 131,788. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. M. FLICKINGER CO. INC., Buffalo, Jamestown, and Rochester, N. Y. Filed Apr. 29, 1920.

SHOPPE

Particular description of goods.—Coffee.
Claims use since Apr. 16, 1920.

Ser. No. 131,791. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Apr. 29, 1920.

PONY BLIMP

No claim being made to the word "Blimp" apart from the mark shown in the drawing.
Particular description of goods.—Motor-Driven Balloons.
Claims use since Mar. 16, 1920.

Ser. No. 131,843. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE WUN-TEX PAINT CO., Washington, D. C. Filed Apr. 29, 1920.

WUN-TEX

Particular description of goods.—Undercoating for All Interior Painting.
Claims use since Apr. 20, 1919.

Ser. No. 131,972. (CLASS 39. CLOTHING.) JANTZEN KNITTING MILLS, Portland, Oreg. Filed May 3, 1920.

Jantzen

Being a facsimile of the surname of the autographed signature of Carl C. Jantzen.
Particular description of goods.—Knitted Sweaters, Coats, Gloves, Suits, Underwear, Robes, Bathing-Suits, Hosiery, Hats, Caps, Jerseys, Vests, and Scarfs.
Claims use since January, 1915.

Ser. No. 132,037. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PERRY W. BROWNING, Washington, D. C. Filed May 5, 1920.

BLUE MILL



COFFEE

The applicant hereby disclaims the use of the descriptive word "Coffee" in his trade-mark apart from the other features of the mark shown in the drawing.
Particular description of goods.—Coffee.
Claims use since February, 1920.

Ser. No. 132,039. (CLASS 39. CLOTHING.) ABRAHAM BLATTNER, Pittsburgh, Pa. Filed May 5, 1920.

the MAGIC BOW

The applicant disclaims the word "Bow" apart from the mark shown in the drawing.
Particular description of goods.—Bow-Ties.
Claims use since May 5, 1920.

Ser. No. 132,076. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BEAVER VARNISH COMPANY, INC., Buffalo, N. Y. Filed May 6, 1920.



Particular description of goods.—Mixed Paints in Oil, Paint Enamels, Varnishes, Waterproof Paint Coatings, Japans, Wood-Stains, Lacquers, and Wood-Fillers, and Colors in Oil.
Claims use since June 1, 1917.

Ser. No. 132,077. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BEAVER VARNISH COMPANY, INC., Buffalo, N. Y. Filed May 6, 1920.



Particular description of goods.—Mixed Paints in Oil, Paint Enamels, Varnishes, Waterproof Paint Coatings, Japans, Wood-Stains, Lacquers, and Wood-Fillers, and Colors in Oil.
Claims use since June 1, 1917.

Ser. No. 132,175. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HALLIGAN CANDY COMPANY, Davenport, Iowa. Filed May 8, 1920.



The drawing being lined for blue.
Particular description of goods.—Candy.
Claims use since April, 1913.

Ser. No. 132,179. (CLASS 39. CLOTHING.) ISADOR SAMUEL WORTH, Riverside, N. J. Filed May 8, 1920.



No claim is made to the word "Hosiery" apart from the mark shown on the drawing.
Particular description of goods.—Hosiery.
Claims use since Apr. 5, 1920.

Ser. No. 132,239. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FUNK & WAGNALLS COMPANY, New York, N. Y. Filed May 10, 1920.

TOPICS OF THE DAY

Particular description of goods.—Moving-Picture Films.
Claims use since May 1, 1918.

Ser. No. 132,278. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE UNITED RUBBER COMPANY, Akron, Ohio. Filed May 10, 1920.

HUSKIE

Particular description of goods.—Rubber Vehicle Tire Casings and Tubes.
Claims use since August, 1919.

Ser. No. 132,305. (CLASS 37. PAPER AND STATIONERY.) HAMMERMILL PAPER COMPANY, Erie, Pa. Filed May 11, 1920.

HAMMERMILL

Particular description of goods.—Writing-Paper, Superfine Writing-Paper, Bond Writing-Paper, Ledger-Paper, Correspondence Envelops, and Writing-Pads.
Claims use since January, 1911.

Ser. No. 132,325. (CLASS 43. THREAD AND YARN.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn.; Darby, Pa., and New York, N. Y. Filed May 11, 1920.



No claim is made to the exclusive use of the representation of the cops, cones, and bobbins of yarn shown in the illustration.
Particular description of goods.—Cotton, Worsted, Mohair, and Silk Thread and Yarn.
Claims use since Aug. 1, 1919.

Ser. No. 132,347. (CLASS 39. CLOTHING.) EXCELLO CLOTHING CO. INC., Passaic, N. J. Filed May 12, 1920.

EXCELLO

Consisting of the word "Excello."
Particular description of goods.—Mackinaws, Mackintoshes, (Rubberized or Cravenetted,) Overcoats, and Sport-Coats.
Claims use since 1914.

Ser. No. 132,428. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CANDY CRAFT SHOPS, INC., Chicago, Ill. Filed May 14, 1920.

Candy Craft

Particular description of goods.—Candy.
Claims use since Sept. 22, 1920.

Ser. No. 132,520. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLORENCE CITRUS GROWERS ASSOCIATION, Florence Villa, Fla. Filed May 17, 1920.



Particular description of goods.—Fresh Citrus Fruits.
Claims use since Apr. 20, 1920.

Ser. No. 132,521. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLORENCE CITRUS GROWERS ASSOCIATION, Florence Villa, Fla. Filed May 17, 1920.



Particular description of goods.—Fresh Citrus Fruit.
Claims use since Apr. 20, 1920.

Ser. No. 132,556. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PENICK & FORD, LTD. INC., New Orleans, La. Filed May 17, 1920.



Particular description of goods.—Table-Syrup.
Claims use since Oct. 11, 1905.

Ser. No. 132,590. (CLASS 39. CLOTHING.) ISAAC ABRAM, Duluth, Minn. Filed May 18, 1920.

BUD'S

Particular description of goods.—Women's Waists, Sweaters, Silk and Cotton Underwear, Coats, Skirts, and Dresses.
Claims use since Nov. 7, 1918.

Ser. No. 132,610. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed May 18, 1920.

Queen Quality

Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or other Fabric Construction, and Spats.
Claims use since February, 1898, on shoes and on spats since February, 1920.

Ser. No. 132,642. (CLASS 10. FERTILIZERS.) INTERNATIONAL AGRICULTURAL CORPORATION, New York, N. Y. Filed May 19, 1920.

I.A.C.

Particular description of goods.—Fertilizers.
Claims use since March, 1915.

Ser. No. 132,738. (CLASS 39. CLOTHING.) HORACE HOLLINGWORTH, Leicester, England. Filed May 21, 1920.



No claim being made to the word "Shoe" or to the representation of a slipper apart from the mark as shown on the drawing.
Particular description of goods.—Boots, Shoes, and Slippers of Leather, Buckskin, Cloth, and Canvas.
Claims use since Feb. 21, 1918.

Ser. No. 132,756. (CLASS 39. CLOTHING.) THE PENNSYLVANIA KNITTING MILLS, Philadelphia, Pa. Filed May 21, 1920.

"Elasticoat"

Particular description of goods.—Knitted Sweaters.
Claims use since January, 1919.

Ser. No. 132,872. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) P. MONTEVERDE & Co., San Francisco, Calif. Filed May 24, 1920.

LIBERTY

Particular description of goods.—Olive-Oil.
Claims use since 1914.

Ser. No. 132,873. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) P. MONTEVERDE & Co., San Francisco, Calif. Filed May 24, 1920.



Particular description of goods.—Olive-Oil.
Claims use since 1914.

Ser. No. 132,912. (CLASS 39. CLOTHING.) E. R. BALLIS & BRO., INC., New York, N. Y. Filed May 25, 1920.

BALLISBRO

The background of the mark and the letters are colored blue on white, as indicated in the drawing.
Particular description of goods.—Hosiery and Underwear of One, Two, or Three Piece Garments for Men, Women, and Children.
Claims use since Mar. 1, 1920.

Ser. No. 133,036. (CLASS 5. ADHESIVES.) WILLIAM WOELTJE, Chicago, Ill. Filed May 27, 1920.

★ STAR ★

Particular description of goods.—Wood and Marble Cement in Stick Form and Made from Pure Shellac Products.
Claims use since January, 1913.

Ser. No. 133,068. (CLASS 39. CLOTHING.) JAMES H. STEDMAN, Braintree, Mass. Filed May 28, 1920.

STEADY

MAN

Particular description of goods.—Soles and Heels for Shoes.
Claims use since Mar. 25, 1920.

Ser. No. 133,182. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPITOL REFINING CO., South Washington, Va. Filed June 2, 1920.

COMBATIENTE

Particular description of goods.—Shortening or Artificial Lard.
Claims use since Mar. 1, 1916.

Ser. No. 133,185. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) DUNGAN, HOOD & CO., INC., Philadelphia, Pa. Filed June 2, 1920. Under ten-year proviso.

DUNGAN, HOOD

Particular description of goods.—Leather, and Particularly Kid-Leather.
Claims use since Jan. 1, 1890.

Ser. No. 133,396. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN F. BENEDICT, Portsmouth, Ohio. Filed June 8, 1920.

Disappearo

Particular description of goods.—A Cleaning Compound for Use in Laundries and Dry-Cleaning Establishments.
Claims use since May 12, 1920.

Ser. No. 133,536. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HYMAN & OPPENHEIM, New York, N. Y. Filed June 10, 1920.

Setsnug

Consisting of the word "Setsnug."
Particular description of goods.—Hair-Nets.
Claims use since May 1, 1920.

Ser. No. 133,575. (CLASS 5. ADHESIVES.) M. FEIGEL & BRO. INC., New York, N. Y. Filed June 11, 1920.

STYX

Particular description of goods.—Glue.
Claims use since May 3, 1920.

Ser. No. 133,652. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed June 14, 1920.

Panorama-Prints

No claim is made to the word "Prints" apart from the mark as shown.
Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since about June 3, 1920.

Ser. No. 133,727. (CLASS 20. LINOLEUM AND OILED CLOTH.) CONGOLEUM COMPANY, INC., New York, N. Y. Filed June 15, 1920.



Said drawing being lined for gold.
Particular description of goods.—Linoleum and Cork Carpet.
Claims use since Apr. 15, 1920.

Ser. No. 133,859. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WALLACH, HOEXTER & CO., New York, N. Y. Filed June 17, 1920.

PALOMA

Particular description of goods.—Cloth Made of Worsted and Wool Yarn With a Soft Velour Finish.
Claims use since May 28, 1920.

Ser. No. 134,048. (CLASS 10. FERTILIZERS.) THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York, N. Y. Filed June 23, 1920.

QUICKSTEP

Particular description of goods.—Fertilizer.
Claims use since June 1, 1887.

Ser. No. 134,133. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILBERT C. LEE, Los Angeles, Calif. Filed June 24, 1920.

THE SAFE-TABLET

Particular description of goods.—Devices for Preventing Combustion.
Claims use since January, 1920.

Ser. No. 134,188. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GETZ BROS. & CO. INC., San Francisco, Calif. Filed June 25, 1920.



Particular description of goods.—A Substitute for Gum-Turpentine.
Claims use since Sept. 1, 1919.

Ser. No. 134,207. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JORDAN MARSH COMPANY, Boston, Mass. Filed June 25, 1920.

Avona

Particular description of goods.—Sheets and Pillow-Cases.
Claims use since Apr. 1, 1920.

Ser. No. 134,211. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) MALTZ & SIMS, New York, N. Y. Filed June 25, 1920.

Jeannette

Particular description of goods.—Vanity-Bags.
Claims use since June 1, 1920.

Ser. No. 134,259. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) A. D. MEBANE, Lockhart, Tex. Filed June 26, 1920.

MEBANE

Particular description of goods.—Cotton-Seed.
Claims use since June 1, 1900.

Ser. No. 134,272. (CLASS 38. PRINTS AND PUBLICATIONS.) READERS' PUBLISHING CORPORATION, New York, N. Y. Filed June 26, 1920.

TELLING TALES

Consisting of the words "Telling Tales."
Particular description of goods.—A Monthly Publication.
Claims use since July, 1919.

Ser. No. 134,284. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED NEIGHBORHOOD HOUSES OF NEW YORK, New York, N. Y. Filed June 26, 1920.

Better Times

Particular description of goods.—A Printed Publication Published Monthly and at other Intervals.
Claims use since Oct. 15, 1919.

Ser. No. 134,338. (CLASS 38. PRINTS AND PUBLICATIONS.) THE WALTHAM GRINDING WHEEL CO., Waltham, Mass. Filed June 28, 1920.

KOOL-KUTS

The words "Kool Kuts."
Particular description of goods.—A House Organ Published Monthly.
Claims use since May 1, 1920.

Ser. No. 134,404. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUCIEN P. BECK, Eagle Pass, Tex. Filed June 30, 1920.

Arcangel San Gabriel



Particular description of goods.—Preparation Used in Treatment for Worms, Both Internal and External.
Claims use since June 21, 1920.

Ser. No. 134,405. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUCIEN P. BECK, Eagle Pass, Tex. Filed June 30, 1920.

ARCH ANGEL SAN GABRIEL



Particular description of goods.—Preparation Used in Treatment for Burns, Rheumatism, and General Inflammation, Both Internal and External.
Claims use since June 21, 1920.

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TRADE-MARK REGISTRATIONS GRANTED

AUGUST 3, 1920.

133,553. CHEMICAL PREPARATION FOR THE REMOVAL OF METAL FROM OXID. EDWIN A. ABBOTT, Wilkes-Barre, Pa.
Filed April 4, 1918. Serial No. 109,960. PUBLISHED APRIL 20, 1920.

133,554. RUBBER-TIRE CASINGS AND TUBES, BELTING, FRUIT-JAR RINGS, COTTON HOSE, AND RUBBER HOSE. ACHILLES RUBBER AND TIRE COMPANY, INC., Binghamton, N. Y.
Filed April 23, 1919. Serial No. 117,767. PUBLISHED FEBRUARY 10, 1920.

133,555. SCISSORS AND SHEARS. THE ACME SHEAR COMPANY, Bridgeport, Conn.
Filed March 3, 1920. Serial No. 129,162. PUBLISHED APRIL 27, 1920.

133,556. SCISSORS AND SHEARS. THE ACME SHEAR COMPANY, Bridgeport, Conn.
Filed March 3, 1920. Serial No. 129,163. PUBLISHED APRIL 27, 1920.

133,557. CERTAIN NAMED GARMENTS FOR WOMEN AND CHILDREN. CLARENCE N. ADELMANN, Newark, N. J.
Filed December 23, 1919. Serial No. 126,342. PUBLISHED MAY 4, 1920.

133,558. DISPENSING-CABINETS FOR PAPER TOWELS OR TOILET-PAPERS. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y.
Filed March 7, 1919. Serial No. 116,357. PUBLISHED APRIL 20, 1920.

133,559. BROAD SILKS IN THE PIECE. W. M. ALFORD & SONS, New York, N. Y.
Filed November 10, 1919. Serial No. 124,703. PUBLISHED MAY 18, 1920.

133,560. LAUNDRY-WASHING MACHINES. ALBAUGH-DOVER COMPANY, Chicago, Ill.
Filed January 12, 1920. Serial No. 127,046. PUBLISHED APRIL 13, 1920.

133,561. ENAMELED HANDLES, KNOBS, PULLS. AMERICAN ENAMEL COMPANY, Providence, R. I.
Filed September 5, 1919. Serial No. 122,322. PUBLISHED APRIL 20, 1920.

133,562. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES AND SYRUPS AND EXTRACTS FOR MAKING THE SAME. AMERICAN EXTRACT & SUPPLY CO., New York, N. Y.
Filed July 22, 1919. Serial No. 120,786. PUBLISHED NOVEMBER 18, 1919.

133,563. CERTAIN NAMED NON-ALCOHOLIC BEVERAGES. AMERICAN LABORATORIES INCORPORATED, Richmond, Va.
Filed January 2, 1920. Serial No. 126,708. PUBLISHED APRIL 27, 1920.

133,564. RUBBER BOOTS AND SHOES AND BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER. AMERICAN-NATIONAL SHOE & LEATHER CORP., New York, N. Y.
Filed February 12, 1920. Serial No. 128,290. PUBLISHED APRIL 27, 1920.

133,565. SMOKING AND CHEWING TOBACCO AND CIGARETTES. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed September 23, 1919. Serial No. 123,017. PUBLISHED JANUARY 27, 1920.

133,566. TRACTORS. AMERICAN TRACTOR CORPORATION, Peoria, Ill.
Filed January 29, 1920. Serial No. 127,710. PUBLISHED APRIL 27, 1920.

133,567. COTTON PIECE GOODS. AMERICAN TRADING COMPANY, New York, N. Y.
Filed August 25, 1919. Serial No. 121,062. PUBLISHED NOVEMBER 4, 1919.

133,568. STEEL DROP-FORGINGS. ANDERSON FORGE & MACHINE COMPANY, Detroit, Mich.
Filed August 2, 1919. Serial No. 121,192. PUBLISHED NOVEMBER 11, 1919.

133,569. WOODEN TANKS. JULIAN ARMSTRONG, Chicago, Ill.
Filed May 31, 1919. Serial No. 119,059. PUBLISHED APRIL 6, 1920.

133,570. REFRIGERATING-MACHINES. AUTOMATIC CARBONIC MACHINE COMPANY, Peoria, Ill.
Filed September 10, 1919. Serial No. 122,506. PUBLISHED MAY 4, 1920.

133,571. RUBBER TIRES, INNER TUBES. AUTOMOBILE OWNERS TIRE CORPORATION, Sioux City, Iowa.
Filed June 24, 1919. Serial. No. 119,879. PUBLISHED FEBRUARY 24, 1920.

133,572. PROPHYLACTIC FOR VENEREAL DISEASES. THE B & R LABORATORIES & MFG. CO., INC., Jersey City, N. J.
Filed November 14, 1919. Serial No. 124,880. PUBLISHED APRIL 20, 1920.

133,573. CANDY-MAKING MACHINERY AND PARTS THEREOF. G. K. BAINBRIDGE, Ripon, Calif.
Filed March 8, 1920. Serial No. 129,369. PUBLISHED APRIL 27, 1920.

133,574. FIRE-HOSE, AND PARTICULARLY FIRE-HOSE COMPRISING A COTTON JACKET HAVING A RUBBER LINING. CASSIUS M. CLAY BAIRD, Chicago, Ill.
Filed March 27, 1919. Serial No. 116,950. PUBLISHED FEBRUARY 24, 1920.

133,575. RAZORS. BOKER CUTLERY & HARDWARE COMPANY, INC., New York, N. Y.
Filed February 2, 1920. Serial No. 127,850. PUBLISHED APRIL 20, 1920.

133,576. SHOES AND SLIPPERS OF LEATHER AND COMBINATION OF RUBBER AND LEATHER AND FABRIC. A. J. BATES & COMPANY, INC., New York, N. Y.
Filed February 9, 1920. Serial No. 128,138. PUBLISHED MAY 4, 1920.

133,577. NON-FERROUS METAL IN THE FORM OF SHEETS, CASTINGS, AND FORGINGS. BAUSH MACHINE TOOL COMPANY, Springfield, Mass.
Filed December 12, 1919. Serial No. 125,874. PUBLISHED APRIL 20, 1920.

133,578. LINOLEUM AND COMPOSITION FLOOR-COVERINGS. THE BEAVER COMPANY, Buffalo, N. Y.
Filed February 17, 1920. Serial No. 128,485. PUBLISHED APRIL 20, 1920.

133,579. ABRASIVE DEVICES ADAPTED FOR USE ON COMMUTATORS OF ELECTRIC MACHINES FOR SMOOTHING UP SUCH COMMUTATORS. JOHN WALTER BECKER, Chicago, Ill.
Filed December 30, 1918. Serial No. 114,875. PUBLISHED APRIL 6, 1920.

133,580. CERTAIN NAMED NON-ALCOHOLIC BEVERAGES. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y.
Filed August 18, 1919. Serial No. 121,743. PUBLISHED APRIL 27, 1920.

133,581. PAJAMAS. BERKSHIRE SHIRT CO., New York, N. Y.
Filed October 21, 1919. Serial No. 124,038. PUBLISHED APRIL 20, 1920.

133,582. SALAD-DRESSING, PEANUT-BUTTER, AND SALTED PEANUTS. C. F. BLANKE TEA & COFFEE COMPANY, St. Louis, Mo.
Filed June 14, 1919. Serial No. 119,591. PUBLISHED JANUARY 27, 1920.

133,583. HAIR-NETS. THE BLOCH CHEMICAL COMPANY, INC., New York, N. Y.
Filed February 7, 1920. Serial No. 128,072. PUBLISHED MAY 18, 1920.

133,584. REFRIGERATING-MACHINES. BLUE BIRD MANUFACTURING COMPANY, St. Louis, Mo.
Filed October 31, 1919. Serial No. 124,383. PUBLISHED FEBRUARY 24, 1920.

133,585. IRONING-MACHINES, WRINGING-MACHINES, AND SADIRONS. BLUE BIRD MANUFACTURING COMPANY, St. Louis, Mo.
Filed October 31, 1919. Serial No. 124,385. PUBLISHED APRIL 6, 1920.

133,586. ANTISQUEAK FRAME-LININGS IN THE FORM OF PIECES OF FABRIC. CHARLES BOND COMPANY, Philadelphia, Pa.
Filed June 21, 1918. Serial No. 111,719. PUBLISHED FEBRUARY 3, 1920.

133,587. AUTOMOBILE-CASINGS OF RUBBER AND CANVAS. BOONE TIRE & RUBBER COMPANY, Chippewa Falls, Wis., and Sycamore, Ill.
Filed August 9, 1919. Serial No. 121,440. PUBLISHED APRIL 13, 1920.

133,588. CERTAIN NAMED HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. BOWDEN WIRE LIMITED, Willesden Junction, London, England.
Filed December 13, 1917. Serial No. 107,923. PUBLISHED APRIL 20, 1920.

133,589. PHOTOGRAPHIC RETOUCHING-SCREENS. IWER BOYSEN, New York, N. Y.
Filed November 18, 1919. Serial No. 125,045. PUBLISHED APRIL 20, 1920.

133,590. LUBRICATING OILS AND GREASES. JOHN PATRICK BRENN, Great Falls, Mont.
Filed January 24, 1920. Serial No. 127,537. PUBLISHED APRIL 20, 1920.

133,591. ELECTRIC BATTERIES, ELECTRIC FLASH-LIGHTS, AND FLASH-LIGHT CASES. BRIGHT STAR BATTERY COMPANY, New York, N. Y.
Filed January 22, 1920. Serial No. 127,466. PUBLISHED APRIL 27, 1920.

133,592. LAUNDRY APPLIANCES AND MACHINES—NAMELY, LAUNDRY AND CLOTHES WASHING MACHINES, WRINGERS, IRONERS. BROKAW-EDEN MANUFACTURING COMPANY, (now by change of name Brokaw Eden Company,) Alton, Ill.
Filed August 11, 1919. Serial No. 121,517. PUBLISHED JANUARY 13, 1920.

133,593. PETTICOATS AND BLOOMERS. BROWN & SINGERMAN INC., New York, N. Y.
Filed January 14, 1920. Serial No. 127,110. PUBLISHED APRIL 27, 1920.

133,594. CERTAIN NAMED MACHINERY AND TOOLS AND PARTS THEREOF. BROWN & ZORTMAN MACHINERY CO., Pittsburgh, Pa.
Filed September 16, 1919. Serial No. 122,814. PUBLISHED APRIL 27, 1920.

133,595. NOSE-GUARDS FOR ANIMALS, PARTICULARLY HORSES. R. BROWNSON & COMPANY, Hastings, Minn.
Filed June 28, 1919. Serial No. 120,030. PUBLISHED APRIL 20, 1920.

133,596. METAL-POLISH. BUBLITZ & HAMMOND, Nashua, Iowa.
Filed January 26, 1920. Serial No. 127,576. PUBLISHED APRIL 20, 1920.

133,597. GASOLENE-ENGINES, LIFTING-JACKS, TRACK-DRILLS, BONDING-DRILLS, TOOL-GRINDERS, RAIL-BENDERS, AND SWITCH-STANDS. THE BUDA COMPANY, Harvey, Ill.
Filed December 3, 1919. Serial No. 125,528. PUBLISHED APRIL 27, 1920.

133,598. AUTOMOBILE-FAN BELTS, FABRIC BELTS, HOSE MADE OF RUBBER, FABRIC, OR RUBBER AND FABRIC, AND FABRIC PACKING. CHARLES H. BUETTNER, Cincinnati, Ohio.
Filed June 22, 1916. Serial No. 96,047. PUBLISHED FEBRUARY 10, 1920.

133,599. HAIR-GROWER. Mrs. DAISY BURCH, Indianapolis, Ind.
Filed November 21, 1919. Serial No. 125,150. PUBLISHED APRIL 20, 1920.

133,600. CERTAIN NAMED AGRICULTURAL IMPLEMENTS. THE BURCH PLOW WORKS COMPANY, Crestline, Ohio.
Filed May 14, 1919. Serial No. 118,460. PUBLISHED APRIL 27, 1920.

133,601. LUBRICATING OILS AND GREASES. THADDEUS A. BURCH, Baltimore, Md.
Filed November 17, 1919. Serial No. 124,969. PUBLISHED APRIL 20, 1920.

133,602. CANNED FISH, CANNED FRUITS, AND CANNED VEGETABLES, CHEESE, PIMENTOS, AND OLIVE-OIL. IWAN BURGER, New York, N. Y.
Filed May 17, 1919. Serial No. 118,582. PUBLISHED MAY 25, 1920.

133,603. SOAPS. CALIFORNIA SOAP COMPANY, INC., Los Angeles, Calif.
Filed November 28, 1919. Serial No. 125,363. PUBLISHED MARCH 16, 1920.

133,604. HANDKERCHIEFS. CARSON, PIRIE, SCOTT & CO., Chicago, Ill., assignor to Carson, Pirie, Scott & Company, Chicago, Ill., a Corporation of Illinois.
Filed March 30, 1918. Serial No. 109,882. PUBLISHED MARCH 9, 1920.

133,605. STITCHED, WOVEN BELTING. CARTON BELTING COMPANY, Boston, Mass.
Filed August 14, 1919. Serial No. 121,656. PUBLISHED FEBRUARY 3, 1920.

133,606. STITCHED, WOVEN BELTING. CARTON BELTING COMPANY, Boston, Mass.
Filed August 14, 1919. Serial No. 121,657. PUBLISHED FEBRUARY 3, 1920.

133,607. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES MADE FROM FRUIT FLAVORS AND SOLD AS SOFT DRINKS. CHARMS COMPANY, Newark, N. J.
Filed July 28, 1919. Serial No. 120,984. PUBLISHED APRIL 27, 1920.

133,608. [WITHDRAWN.]

133,609. [WITHDRAWN.]

133,610. [WITHDRAWN.]

133,611. ELECTRIC FLATIRONS. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed August 29, 1919. Serial No. 122,109. PUBLISHED MAY 4, 1920.

133,612. CERTAIN NAMED CLOTHING FOR MEN, WOMEN, AND CHILDREN. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed December 30, 1919. Serial No. 126,616. PUBLISHED MAY 4, 1920.

133,613. MECHANICS' SOAP IN BARS. CLA-LOID MFG. CO., Clermont, Iowa.
Filed January 6, 1920. Serial No. 126,848. PUBLISHED APRIL 20, 1920.

133,614. FAUCETS, MANUALLY-OPERABLE VALVES, AND COCKS. THE CLEVELAND BRASS MANUFACTURING COMPANY, Cleveland, Ohio.
Filed January 12, 1920. Serial No. 127,033. PUBLISHED APRIL 27, 1920.

133,615. BOBBINS, REEL-ARMS, BOBBIN-PIN BOARDS, FIBER COMBS AND LACING-RINGS, AND COMBINATION REEL-CAPS. CLOVER LEAF MANUFACTURING COMPANY, Carbondale, Pa.
Filed February 4, 1920. Serial No. 127,958. PUBLISHED APRIL 27, 1920.

133,616. WIRE CLOTH AND FENCING COMPOSED OF IRON WIRE. CLINTON WIRE CLOTH COMPANY, Boston, Mass., assignor to Wickwire Spencer Steel Corporation, a Corporation of Massachusetts.
Filed February 19, 1919. Serial No. 115,972. PUBLISHED APRIL 20, 1920.

133,617. CORSETS. HERBERT COCKSHAW, New York, N. Y., assignor to Mary Arden Corset Company, Inc., New York, N. Y., a Corporation of New York.
Filed February 21, 1919. Serial No. 116,046. PUBLISHED APRIL 27, 1920.

133,618. CHEMICAL COMPOUND FOR KEEPING WINDSHIELD OR GLASS CLEAR. CLEROLINE CHEMICAL CO. INC., New York, N. Y.
Filed September 26, 1919. Serial No. 123,157. PUBLISHED APRIL 13, 1920.

133,619. LEATHER AND FABRIC DRESSING. JOHN W. COLLEY, Elkhart, Ind.
Filed January 10, 1920. Serial No. 126,988. PUBLISHED APRIL 20, 1920.

133,620. [WITHDRAWN.]

133,621. MEN'S KNITTED UNION-SUITS. COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif., and New York, N. Y.
Filed February 7, 1920. Serial No. 128,081. PUBLISHED MAY 4, 1920.

133,622. SCENIC AND EDUCATIONAL MOVING-PICTURE FILMS. COSMOPOLITAN FILM COMPANY, New Orleans, La.
Filed December 30, 1919. Serial No. 126,614. PUBLISHED APRIL 20, 1920.

133,623. VACUUM AND PRESSURE AIR-PUMPS, LIQUID-PUMPS, AND BLOWERS. CRESCENT PUMP COMPANY, Detroit, Mich.
Filed January 14, 1920. Serial No. 127,115. PUBLISHED APRIL 27, 1920.

133,624. LADIES' AND MISSES' DRESSES, IN ONE AND TWO PIECE GARMENTS. CROWN EMBROIDERY WORKS, New York, N. Y.
Filed February 18, 1920. Serial No. 128,544. PUBLISHED APRIL 27, 1920.

133,625. LUBRICATING-GREASES. D-A LUBRICANT COMPANY, Washington, D. C., and Indianapolis, Ind.
Filed February 17, 1920. Serial No. 128,509. PUBLISHED APRIL 20, 1920.

133,626. HANDBAGS. DANDA-HALPERN CO., INC., New York, N. Y.
Filed October 20, 1919. Serial No. 123,971. PUBLISHED APRIL 13, 1920.

133,627. CLOTHESLINES. CHARLES C. DAVIS, Chicago, Ill.
Filed February 3, 1920. Serial No. 127,902. PUBLISHED APRIL 13, 1920.

133,628. CEMENTING COMPOSITION USED TO JOIN PIECES OF METAL, MORE ESPECIALLY STEEL. DEEDS & CHAPIN, Indianapolis, Ind.
Filed October 11, 1919. Serial No. 123,687. PUBLISHED APRIL 27, 1920.

133,629. LUBRICATING OILS AND GREASES FOR ENGINES, MACHINERY, AUTOMOBILES, GEARS, AND OIL AND GREASE CUPS. DELAWARE ELECTRIC & SUPPLY CO., Wilmington, Del.
Filed October 20, 1919. Serial No. 124,084. PUBLISHED APRIL 20, 1920.

133,630. CLOTHES-WASHING MACHINES. THE DELITE MANUFACTURING CO., Bryan, Ohio.
Filed January 19, 1920. Serial No. 127,283. PUBLISHED APRIL 13, 1920.

133,631. CERTAIN NAMED ABRASIVE, DETERGENT, AND POLISHING MATERIALS. DE NORDISKE FABRIKER DE NO FA AKTIESELSKAB, Christiania, Norway.
Filed October 1, 1919. Serial No. 123,310. PUBLISHED APRIL 13, 1920.

133,632. AUTO-BODY POLISH. ANTON DESPOL, Palo Alto, Calif.
Filed July 16, 1919. Serial No. 120,602. PUBLISHED APRIL 20, 1920.

133,633. GRIST-MILLS. DIAMOND GRINDER COMPANY, Cedar Falls, Iowa.
Filed February 17, 1920. Serial No. 128,489. PUBLISHED APRIL 20, 1920.

133,634. CLOCKS. AUGUST C. DITTRICH, Chicago, Ill.
Filed December 11, 1919. Serial No. 125,834. PUBLISHED APRIL 6, 1920.

133,635. CERTAIN NAMED PUMPS, CONDENSERS, AND ENGINES. DOW PUMP AND DIESEL ENGINE COMPANY, Alameda, Calif.
Filed February 26, 1920. Serial No. 128,920. PUBLISHED APRIL 20, 1920.

133,636. ELECTRIC-LIGHTING PLANTS FOR FARMS. DRURY ENGINEERING COMPANY, Evansville, Ind.
Filed January 31, 1920. Serial No. 127,800. PUBLISHED APRIL 27, 1920.

133,637. CERTAIN NAMED KNIVES. DWIGHT DIVINE & SONS, Ellenville, N. Y.
Filed June 12, 1919. Serial No. 119,500. PUBLISHED APRIL 27, 1920.

133,638. ROPE, YARNS, AND COTTON TWINES AND CORDAGE. EAGLE COTTON MILLS COMPANY, Madison, Ind.
Filed November 26, 1919. Serial No. 125,321. PUBLISHED APRIL 27, 1920.

133,639. ROPE, YARNS, AND COTTON TWINES AND CORDAGE. EAGLE COTTON MILLS COMPANY, Madison, Ind.
Filed November 26, 1919. Serial No. 125,322. PUBLISHED MAY 4, 1920.

133,640. LADIES', MISSES', AND CHILDREN'S SUITS CONSISTING OF SKIRTS AND JACKETS, COATS, WAISTS, DRESSES, AND SKIRTS. JOSEPH ECKSTEIN, New York, N. Y.
Filed October 20, 1919. Serial No. 123,973. PUBLISHED APRIL 20, 1920.

133,641. JUMPERS AND OVERALLS. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed April 14, 1919. Serial No. 117,451. PUBLISHED APRIL 13, 1920.

133,642. OIL-CLOTH, TABLE AND FLOOR USE. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed February 19, 1920. Serial No. 128,629. PUBLISHED APRIL 20, 1920.

133,643. SILK PIECE GOODS. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y.
Filed March 13, 1920. Serial No. 129,627. PUBLISHED MAY 18, 1920.

133,644. LADIES' HATS. ENGEL AND ZEIMER, New York, N. Y.
Filed October 9, 1919. Serial No. 123,572. PUBLISHED APRIL 6, 1920.

133,645. CREAM-SEPARATORS. THE EQUITABLE CREAM SEPARATOR COMPANY, New York, N. Y.
Filed January 15, 1920. Serial No. 127,172. PUBLISHED APRIL 27, 1920.

133,646. COTTON BED-BLANKETS. THE EDMOND MILLS, Jersey City, N. J., and New York, N. Y.
Filed December 20, 1919. Serial No. 126,275. PUBLISHED MAY 11, 1920.

133,647. MACHINERY PACKING. EUREKA PACKING CO. SALES DEP'T, New York, N. Y.
Filed September 20, 1917. Serial No. 106,843. PUBLISHED FEBRUARY 10, 1920.

133,648. MECHANICAL FIRE-ALARMS COMPRISING SELF-ACTUATED GONGS AND SOFT-METAL FUSE-HEADS FOR THE SAME. FABART INSTRUMENT CO., Chicago, Ill.
Filed December 5, 1919. Serial No. 125,612. PUBLISHED APRIL 27, 1920.

133,649. CORN-BINS, FEED-BINS, AND GRAIN-BINS, HOG-FEEDERS, TROUGHS, AND SILO-CHUTES. THE FARM EQUIPMENT CO., Baltimore, Md.
Filed December 31, 1919. Serial No. 126,683. PUBLISHED APRIL 13, 1920.

133,650. SHEETS AND PILLOW-CASES. THE FAIR, Chicago, Ill.
Filed December 29, 1919. Serial No. 126,569. PUBLISHED MAY 18, 1920.

133,651. SNAP-FASTENERS AND PLACKET-FASTENERS. FEDERAL SNAP FASTENER CORPORATION, New York, N. Y.
Filed October 16, 1919. Serial No. 123,846. PUBLISHED APRIL 13, 1920.

133,652. YELLOW LAUNDRY SOAP. THE FEDERAL SOAP COMPANY, Columbus, Ohio.
Filed November 12, 1919. Serial No. 124,788. PUBLISHED APRIL 6, 1920.

133,653. RAG AND GRASS RUGS. MANUEL FELDMAN, New York, N. Y.
Filed October 23, 1919. Serial No. 124,100. PUBLISHED APRIL 13, 1920.

133,654. CHILDREN'S AND INFANTS' SHOES MADE OF LEATHER. THE FERRIS SHOE COMPANY, Philadelphia, Pa., and Cleveland, Ohio.
Filed December 5, 1919. Serial No. 125,613. PUBLISHED MARCH 30, 1920.

133,655. MEN'S AND BOYS' CAPS. FINE & LEVY, New York, N. Y.
Filed December 30, 1919. Serial No. 126,630. PUBLISHED MAY 4, 1920.

133,656. KNITTED UNDERWEAR, BOTH TWO-PIECE GARMENTS AND UNION-SUITS, FOR MEN AND CHILDREN. FORD MANUFACTURING CO., Waterford, N. Y.
Filed January 20, 1920. Serial No. 127,862. PUBLISHED APRIL 27, 1920.

133,657. SPARK-PLUGS. FORD MICA COMPANY, INC., New York, N. Y.
Filed September 13, 1919. Serial No. 122,634. PUBLISHED APRIL 20, 1920.

133,658. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed March 20, 1920. Serial No. 129,974. PUBLISHED MAY 18, 1920.

133,659. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed March 24, 1920. Serial No. 130,131. PUBLISHED MAY 18, 1920.

133,660. SYRUP USED FOR MAKING NON-ALCOHOLIC, NON-INTOXICATING, MALTLESS, NON-CEREAL BEVERAGES SOLD AS SOFT DRINKS. CHARLES AUSTIN FOWLER, Chicago, Ill.
Filed January 27, 1920. Serial No. 127,640. PUBLISHED APRIL 20, 1920.

133,661. LEATHER BELTING. JOSEPH J. FREADRICH, St. Louis, Mo.
Filed September 8, 1919. Serial No. 122,429. PUBLISHED FEBRUARY 10, 1920.

133,662. LEATHER BELTING. JOSEPH J. FREADRICH, St. Louis, Mo.
Filed September 8, 1919. Serial No. 122,430. PUBLISHED APRIL 13, 1920.

133,663. OVERALLS. THE FREE LAND OVERALL MANUFACTURING CO., Freeland, and Dubois, Pa.
Filed February 9, 1920. Serial No. 128,150. PUBLISHED APRIL 20, 1920.

133,664. BREAD. STANLEY H. FREIHOFER, Atlantic City, N. J.
Filed March 15, 1920. Serial No. 129,712. PUBLISHED APRIL 27, 1920.

133,665. SMOKING AND CHEWING TOBACCO AND CIGARETTES. FRISHMUTH BRO. & COMPANY, INCORPORATED, Philadelphia, Pa.
Filed February 26, 1919. Serial No. 116,157. PUBLISHED APRIL 20, 1920.

133,666. PLAIN AND PRINTED BROAD SILKS IN PIECES. FRIEDMAN & MOSS, INC., New York, N. Y.
Filed March 10, 1920. Serial No. 129,495. PUBLISHED MAY 18, 1920.

133,667. MEDICINAL PREPARATION FOR CATARRH, ASTHMA, AND BRONCHIAL TROUBLES. JOHN GALLAGHER, Auburn, Wash.
Filed November 15, 1919. Serial No. 124,931. PUBLISHED APRIL 20, 1920.

133,668. VOILES AND SATEEN IN THE PIECE. HENRY GLASS & CO., New York, N. Y.
Filed March 24, 1920. Serial No. 130,135. PUBLISHED MAY 18, 1920.

133,669. VOILES AND SATEEN IN THE PIECE. HENRY GLASS & CO., New York, N. Y.
Filed March 24, 1920. Serial No. 130,136. PUBLISHED MAY 18, 1920.

133,670. LEATHER SHOES. ORONZIO GENTILE, West Hoboken, N. J.
Filed October 18, 1919. Serial No. 123,929. PUBLISHED MAY 4, 1920.

133,671. SOAP. GEORGE T. GEORGIS, New York, N. Y.
Filed July 26, 1919. Serial No. 120,958. PUBLISHED APRIL 13, 1920.

133,672. HAIR-NETS. S. GLEMBY, INC., New York, N. Y.
Filed March 17, 1920. Serial No. 129,838. PUBLISHED MAY 18, 1920.

133,673. HAIR-NETS. S. GLEMBY, INC., New York, N. Y.
Filed March 17, 1920. Serial No. 129,839. PUBLISHED MAY 18, 1920.

133,674. HAIR-NETS. S. GLEMBY, INC., New York, N. Y.
Filed March 17, 1920. Serial No. 129,840. PUBLISHED MAY 18, 1920.

133,675. PAINT FOR IRON AND STEEL. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 2, 1920. Serial No. 129,131. PUBLISHED APRIL 20, 1920.

133,676. PAINT FOR IRON AND STEEL. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 2, 1920. Serial No. 129,133. PUBLISHED APRIL 27, 1920.

133,677. PAINT FOR GALVANIZED IRON. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 2, 1920. Serial No. 129,137. PUBLISHED APRIL 27, 1920.

133,678. RED-LEAD PAINT. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 2, 1920. Serial No. 129,138. PUBLISHED APRIL 27, 1920.

133,679. PAINT FOR CONCRETE, CEMENT, BRICK, TILE, STUCCO, AND PLASTER. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 2, 1920. Serial No. 129,139. PUBLISHED APRIL 27, 1920.

133,680. FIREPROOF PAINT FOR WOOD. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 2, 1920. Serial No. 129,142. PUBLISHED APRIL 27, 1920.

133,681. BATTERY-JARS MADE OF HARD OR SEMI-HARD RUBBER OR HAVING RUBBER INCORPORATED THEREIN. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed February 17, 1920. Serial No. 128,495. PUBLISHED APRIL 27, 1920.

133,682. CIGARETTES, CIGARS, PIPE-TOBACCO, AND CHEWING-TOBACCO. GOSSELIN TRADING CORPORATION, New York, N. Y.
Filed December 29, 1919. Serial No. 126,581. PUBLISHED APRIL 6, 1920.

133,683. TEXTILE FABRICS CONSISTING OF COTTON PIECE GOODS. W. R. GRACE & CO., New York, N. Y., and San Francisco, Calif.
Filed October 26, 1918. Serial No. 113,902. PUBLISHED JUNE 3, 1919.

133,684. DENTIFRICE. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed October 10, 1919. Serial No. 123,636. PUBLISHED FEBRUARY 3, 1920.

133,685. GINGER-ALE. GRAPE OLA PRODUCTS CORPORATION, New York, N. Y.
Filed December 23, 1919. Serial No. 126,370. PUBLISHED APRIL 27, 1920.

133,686. GRAPE-JUICE. GRAPE OLA PRODUCTS CORPORATION, New York, N. Y.
Filed December 23, 1919. Serial No. 126,372. PUBLISHED APRIL 27, 1920.

133,687. LEATHER BELTING. THE GRATON & KNIGHT MANUFACTURING COMPANY, Worcester, Mass.
Filed April 21, 1919. Serial No. 117,667. PUBLISHED APRIL 13, 1920.

133,688. SHOE-POLISH. GRIFFIN M'F'G. CO., INC., New York, N. Y.
Filed September 21, 1918. Serial No. 113,290. PUBLISHED APRIL 13, 1920.

133,689. BOOTS AND SHOES OF LEATHER, LEATHER AND FABRIC, AND RUBBER FABRIC. GRIGGS-PAXTON SHOE CO., INC., Roanoke, Va.
Filed September 19, 1919. Serial No. 122,890. PUBLISHED MAY 4, 1920.

133,690. SNAP-FASTENERS. THE GUARANTEE SPECIALTY MANUFACTURING COMPANY, Cleveland, Ohio.
Filed August 30, 1919. Serial No. 122,168. PUBLISHED APRIL 6, 1920.

133,691. CERTAIN NAMED METALS AND METAL CASTINGS AND FORGINGS. HALL & PICKLES LIMITED, Manchester, England.
Filed October 17, 1919. Serial No. 123,893. PUBLISHED APRIL 20, 1920.

133,692. WEARING-APPAREL FOR MALES AND FEMALES, KNOWN AS JERSEYS. NATHAN HALPERIN, Brooklyn, N. Y.
Filed September 6, 1919. Serial No. 122,398. PUBLISHED MAY 4, 1920.

133,693. SPECTACLE-LENSES, LENS-BLANKS, AND SPECTACLE-FRAMES. JAMES H. HAMMON, Vincennes, Ind.
Filed February 17, 1920. Serial No. 128,502. PUBLISHED APRIL 20, 1920.

133,694. BLANKET OF INSULATING MATERIAL TO BE USED BY ELECTRICAL WORKERS, LINEMEN, AND PERSONS SIMILARLY EMPLOYED. F. A. HARDY & COMPANY, Chicago, Ill.
Filed January 13, 1920. Serial No. 127,085. PUBLISHED APRIL 27, 1920.

133,695. AEROPLANE PACKING CASES AND CRATES. HANDLEY PAGE LIMITED, London, England.
Filed January 6, 1920. Serial No. 126,858. PUBLISHED MARCH 2, 1920.

133,696. HOUSE AND BARN PAINTS. THE E. C. HARLEY COMPANY, Dayton, Ohio.
Filed March 1, 1920. Serial No. 129,061. PUBLISHED APRIL 27, 1920.

133,697. HORSE-COLLAR. HARPHAM BROS. CO., Lincoln, Nebr.
Filed September 3, 1919. Serial No. 122,248. PUBLISHED FEBRUARY 3, 1920.

133,698. PATCHES FOR WHEEL-TIRE TUBES. HASSEBROCK BROTHERS, St. Peter, Ill.
Filed August 16, 1919. Serial No. 121,717. PUBLISHED JANUARY 6, 1920.

133,699. HAIR-NETS. HARTMANN BROTHERS, INC., New York, N. Y.
Filed December 23, 1919. Serial No. 126,380. PUBLISHED MAY 18, 1920.

133,700. PETROLEUM PRODUCTS—NAMELY, BENZIN, GASOLENE, KEROSENE, LUBRICATING-OILS. JEAN BAPTISTE HAVRE, San Francisco, Calif.
Filed October 10, 1919. Serial No. 123,643. PUBLISHED MARCH 16, 1920.

133,701. DRAWING-COMPASSES. GILBERT J. HILL, Newark, N. J.
Filed January 12, 1920. Serial No. 127,055. PUBLISHED APRIL 20, 1920.

133,702. WRIST-WATCH STRAPS. MAX HIRSCH, Philadelphia, Pa.
Filed September 13, 1918. Serial No. 113,158. PUBLISHED MARCH 2, 1920.

133,703. MEN'S HATS. HODSHON HAT CO., Newark, Paterson, Passaic, and New Brunswick, N. J., and Wheeling, W. Va.
Filed February 16, 1920. Serial No. 128,488. PUBLISHED APRIL 27, 1920.

133,704. BREAD AND CAKE BOXES. THE HOME COMFORT COMPANY, St. Paul, Minn.
Filed May 9, 1919. Serial No. 118,309. PUBLISHED MARCH 16, 1920.

133,705. NON-ALCOHOLIC, CEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. HOSTER-COLUMBUS COMPANY, INC., Columbus, Ohio.
Filed March 16, 1917. Serial No. 102,185. PUBLISHED NOVEMBER 12, 1918.

133,706. SHOE-LACINGS, CORSET-LACINGS, UNDERWEAR-LACINGS, ALL OF WHICH ARE MADE OF LINEN, SILK, OR WORSTED. INTERNATIONAL BRAID COMPANY, Providence, R. I.
Filed August 6, 1919. Serial No. 121,304. PUBLISHED MARCH 30, 1920.

133,707. MOTION-PICTURE FILMS. INTERNATIONAL FILM SERVICE CO., INC., New York, N. Y.
Filed January 28, 1920. Serial No. 127,692. PUBLISHED APRIL 20, 1920.

133,708. SHOE-POLISH. IVORY POLISH COMPANY, Elyria, Ohio.
Filed January 9, 1920. Serial No. 126,963. PUBLISHED APRIL 20, 1920.

133,709. CERTAIN NAMED BELTINGS AND LACES. JEWELL BELTING COMPANY, Hartford, Conn.
Filed August 7, 1919. Serial No. 121,347. PUBLISHED APRIL 13, 1920.

133,710. CERTAIN NAMED CLOTHING. JURBIDINI EXPORT COMPANY, New York, N. Y.
Filed November 21, 1919. Serial No. 125,155. PUBLISHED MAY 4, 1920.

133,711. RUBBER BICYCLE-TIRES. KAUFMANN DEPARTMENT STORES INC., Pittsburgh, Pa.
Filed March 19, 1919. Serial No. 116,717. PUBLISHED DECEMBER 23, 1919.

133,712. BURIAL-BOXES, BURIAL-CASKETS, AND BURIAL-VAULTS. PATRICK H. KELLY, Philadelphia, Pa.
Filed September 3, 1919. Serial No. 122,257. PUBLISHED JANUARY 27, 1920.

133,713. CERTAIN MALT BEVERAGES, EXTRACTS, AND LIQUORS. C. KEEN PRODUCTS CO., Port Huron, Mich.
Filed September 12, 1919. Serial No. 122,601. PUBLISHED APRIL 27, 1920.

133,714. FLUSH-TANK OUTLET-VALVES. THE KORKET COMPANY, Detroit, Mich.
Filed April 29, 1919. Serial No. 117,981. PUBLISHED APRIL 20, 1920.

133,715. SOFT-DRINK-MIXING MACHINES. KWIK-MIX MANUFACTURING CO. INC., New York, N. Y.
Filed December 20, 1919. Serial No. 126,282. PUBLISHED APRIL 20, 1920.

133,716. SKIN-CREAM. LAMAR, TAYLOR & RILEY DRUG CO., Macon, Ga.
Filed November 25, 1919. Serial No. 125,287. PUBLISHED APRIL 20, 1920.

133,717. LEAD PRODUCTS—NAMELY, RED LEAD, LITHARGE, AND ORANGE MINERAL. LEAD PRODUCTS COMPANY, St. Louis, Mo.
Filed September 22, 1919. Serial No. 122,991. PUBLISHED MAY 4, 1920.

133,718. STOCK-FEED CRUSHERS, FEED-GRINDERS AND PARTS THEREOF, CORN-PLANTERS, AND BURS FOR FEED-MILLS. THE LETZ MANUFACTURING CO., Crown Point, Ind.
Filed July 23, 1919. Serial No. 120,834. PUBLISHED APRIL 27, 1920.

133,719. MEN'S OUTER SUITS AND OVERCOATS. CHARLES D. LEVIN, New York, N. Y.
Filed January 8, 1920. Serial No. 126,936. PUBLISHED APRIL 20, 1920.

133,720. CERTAIN NAMED TEXTILE FABRICS. LEWIS MANUFACTURING COMPANY, Walpole, Mass.
Filed May 27, 1919. Serial No. 118,968. PUBLISHED MARCH 2, 1920.

133,721. IDLERS AND ROLLS FOR CONVEYING MACHINERY. LINK-BELT COMPANY, Chicago, Ill.; Philadelphia, Pa., and Indianapolis, Ind.
Filed December 30, 1919. Serial No. 126,640. PUBLISHED APRIL 27, 1920.

133,722. CERTAIN NAMED MALT BEVERAGES, EXTRACTS, AND LIQUORS. LION BREWERY OF NEW YORK CITY, New York, N. Y.
Filed September 8, 1919. Serial No. 122,441. PUBLISHED APRIL 27, 1920.

133,723. CERTAIN NAMED CLOTHING. S. S. LOEB & CO., Boston, Mass.
Filed October 13, 1919. Serial No. 123,746. PUBLISHED MAY 4, 1920.

133,724. NON-ALCOHOLIC MALT BEVERAGES. V. LOEWER'S GAMBRINUS BREWERY CO., New York, N. Y.
Filed February 11, 1919. Serial No. 115,771. PUBLISHED DECEMBER 9, 1919.

133,725. CIGARS. A. J. LONG CIGAR & GROCERY CO., Macon, Ga.
Filed November 12, 1919. Serial No. 124,800. PUBLISHED MARCH 2, 1920.

133,726. WHEAT-FLOUR. THE LONGMONT FARMERS MILLING & ELEVATOR CO., Longmont, Colo.
Filed February 3, 1917. Serial No. 101,150. PUBLISHED APRIL 20, 1920.

133,727. UNBLEACHED, DYED, AND PRINTED DRILLS, TWILLS, AND SHEETING. M. LOWENSTEIN & SONS, INC., New York, N. Y.
Filed May 5, 1919. Serial No. 118,157. PUBLISHED JANUARY 27, 1920.

133,728. LEATHER SHOES AND JULIETTES. LUNN & SWEET. CO., Auburn, Me.
Filed November 17, 1919. Serial No. 124,999. PUBLISHED MAY 4, 1920.

133,720. UNDERWEAR CONSISTING OF ONE- AND TWO-PIECE TEXTILE, KNITTED OR WOVEN UNDERGARMENTS. LUXITE SILK PRODUCTS CO., Milwaukee, Wis.
Filed January 10, 1920. Serial No. 127,005. PUBLISHED MAY 4, 1920.

133,730. CULTIVATORS. CHARLES S. MCCARTHY, Jr., Sandusky, Ohio
Filed December 24, 1919. Serial No. 126,418. PUBLISHED APRIL 20, 1920.

133,731. LIQUID FURNITURE-POLISH. MCCOMB BROTHERS, Scarsdale, N. Y.
Filed March 1, 1920. Serial No. 129,071. PUBLISHED APRIL 27, 1920.

133,732. LUBRICATING-OILS, RUST-PREVENTING OILS, AND MACHINE-OILS. MCCORMICK & CO., Baltimore, Md.
Filed November 5, 1918. Serial No. 114,056. PUBLISHED JANUARY 6, 1920.

133,733. MEDICINAL PREPARATIONS FOR THE TREATMENT OF AFFECTIONS OF THE THROAT AND BRONCHIAL TUBES. MCKESSON & ROBBINS INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,291. PUBLISHED APRIL 20, 1920.

133,734. THROAT-PASTILS. MCKESSON & ROBBINS INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,292. PUBLISHED APRIL 20, 1920.

133,735. BACON AND HAM. J. T. MCMILLAN COMPANY, St. Paul, Minn.
Filed April 30, 1917. Serial No. 103,424. PUBLISHED FEBRUARY 3, 1920.

133,736. BELTING MADE PARTLY OF FABRIC AND PARTLY OF RUBBER. THE MANHATTAN RUBBER MFG. CO., New York, N. Y.
Filed May 29, 1919. Serial No. 119,040. PUBLISHED FEBRUARY 24, 1920.

133,737. BELTING, PACKING, AND HOSE COMPOSED OF RUBBER OR RUBBER AND FABRIC. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J.
Filed August 8, 1919. Serial No. 121,401. PUBLISHED FEBRUARY 3, 1920.

133,738. BELTING, PARTLY OF FABRIC AND PARTLY OF RUBBER. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J.
Filed August 8, 1919. Serial No. 121,402. PUBLISHED DECEMBER 23, 1919.

133,739. BELTS, MANUFACTURED PARTLY OF RUBBER, FOR SUPPORTING OUTER GARMENTS. THE MARATHON TIRE & RUBBER CO., Cuyahoga Falls, Ohio.
Filed November 17, 1919. Serial No. 125,002. PUBLISHED MARCH 30, 1920.

133,740. CERTAIN NAMED TOOLS, APPARATUS AND TOOLS FOR METAL-WORKING. MASCHINENFABRIK SCHWEITER A.-G., Horgen, Switzerland.
Filed September 30, 1918. Serial No. 113,492. PUBLISHED APRIL 20, 1920.

133,741. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. OSCAR F. MAYER & BRO., Chicago, Ill.
Filed February 24, 1919. Serial No. 116,099. PUBLISHED JANUARY 6, 1920.

133,742. CERTAIN NAMED APPLIANCES USED UPON OR IN CONNECTION WITH AUTOMOBILES. MAYO-SKINNER MFG. COMPANY, Chicago, Ill.
LISHED APRIL 27, 1920.
Filed November 10, 1919. Serial No. 124,725. PUB-

133,743. MEN'S DRESS-SHIRTS. MORRIS MENZIN, New York, N. Y.
Filed August 6, 1919. Serial No. 121,311. PUBLISHED MAY 4, 1920.

133,744. TONIC FOR NERVOUSNESS, INDIGESTION, AND GENERAL DEBILITY. MERITONE MEDICINE CO., Nashville, Tenn.
Filed March 25, 1919. Serial No. 116,890. PUBLISHED APRIL 20, 1920.

133,745. WASTE-BASKETS MADE OF STEEL. METAL OFFICE FURNITURE CO., Grand Rapids, Mich.
Filed October 20, 1919. Serial No. 123,998. PUBLISHED MARCH 16, 1920.

133,746. COIN-OPERATED MOVING-PICTURE-VIEWING MACHINES. JOHN F. MEYER, Chicago, Ill.
Filed January 16, 1920. Serial No. 127,222. PUBLISHED APRIL 20, 1920.

133,747. CERTAIN NAMED PLUMBING AND STEAM-FITTING SUPPLIES. MICHIGAN LUBRICATOR COMPANY, Detroit, Mich.
Filed June 6, 1919. Serial No. 119,275. PUBLISHED APRIL 20, 1920.

133,748. CERTAIN NAMED CLOTHING FOR MEN, WOMEN, AND CHILDREN. J. A. MIGEL, INC., New York, N. Y.
Filed February 13, 1920. Serial No. 128,352. PUBLISHED APRIL 27, 1920.

133,749. PARASOLS AND UMBRELLAS. J. A. MIGEL, INC., New York, N. Y.
Filed February 16, 1920. Serial No. 128,455. PUBLISHED APRIL 20, 1920.

133,750. VEHICLE-TIRES MADE OF RUBBER AND FABRIC. ELLIS MILLER, New York, N. Y.
Filed July 11, 1919. Serial No. 120,466. PUBLISHED FEBRUARY 10, 1920.

133,751. SOAPS FOR CLEANING AND SCOURING PURPOSES. CONRAD G. MOLLER, New Canaan, Conn.
Filed January 20, 1920. Serial No. 127,384. PUBLISHED APRIL 20, 1920.

133,752. IRON, STEEL, SEMISTEEL, BRASS, BRONZE, AND ALUMINUM CASTINGS AND FORGINGS OF ALL KINDS. MONARCH FOUNDRY COMPANY, Stockton, Calif.
Filed December 2, 1919. Serial No. 125,508. PUBLISHED APRIL 27, 1920.

133,753. CERTAIN NAMED PLUMBING SUPPLIES. THE MONUMENT POTTERY CO., Trenton, N. J.
Filed July 25, 1918. Serial No. 112,322. PUBLISHED APRIL 20, 1920.

133,754. WOOL GLOVES. MORGAN KNITTING MILLS, INC., Newark, N. J., and New York, N. Y.
Filed February 16, 1920. Serial No. 128,458. PUBLISHED APRIL 27, 1920.

133,755. CERTAIN NAMED MOTION-PICTURE SUNDRIES. MOVETTE, INCORPORATED, Rochester, N. Y.
Filed February 8, 1919. Serial No. 115,695. PUBLISHED MARCH 23, 1920.

133,756. LADIES' VESTS AND LADIES' UNION-SUITS, ALL MADE OF KNITTED FABRIC. WALTER W. MOYER, Ephrata, Pa.
Filed January 14, 1920. Serial No. 127,138. PUBLISHED APRIL 27, 1920.

133,757. NON-INTOXICATING, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. ALLAN P. MUNRO, Cincinnati, Ohio.
Filed January 6, 1920. Serial No. 126,869. PUBLISHED MARCH 23, 1920.

133,758. RIVET-SETS, CHISEL-BLANKS, REAMERS, AND DRILLS. W. E. NAGLE & SON, Pittsburgh, Pa.
Filed November 26, 1919. Serial No. 125,338. PUBLISHED APRIL 20, 1920.

133,759. GLUE. THE NAPCO CORPORATION, Indianapolis, Ind.
Filed March 13, 1920. Serial No. 129,642. PUBLISHED APRIL 20, 1920.

133,760. LADIES' AND MISSES' BLOUSES. NATIONAL CLOAK & SUIT CO., New York, N. Y.
Filed September 29, 1919. Serial No. 123,252. PUBLISHED MAY 4, 1920.

133,761. BARE COPPER WIRE AND BARE COPPER CABLE, SHEET-BRASS AND SHEET-BRONZE, AND BRASS AND BRONZE RODS. NATIONAL CONDUIT & CABLE COMPANY, INC., Hastings-on-Hudson, N. Y.
Filed October 2, 1919. Serial No. 123,360. PUBLISHED APRIL 27, 1920.

133,762. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, OR OTHER MATERIAL. NATH'L FISHER & CO., New York, N. Y.
Filed January 23, 1920. Serial No. 127,503. PUBLISHED MAY 4, 1920.

133,763. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, OR OTHER MATERIAL. NATH'L FISHER & CO., New York, N. Y.
Filed January 5, 1920. Serial No. 126,793. PUBLISHED MAY 4, 1920.

133,764. WATER-PROOF CLOTHING OR COVERINGS CONSISTING OF RAINCOATS, LEGGINGS, AND PUTTEES. NATIONAL WATER-PROOFING COMPANY, Memphis, Tenn.
Filed September 12, 1919. Serial No. 122,607. PUBLISHED MAY 4, 1920.

133,765. LADIES' GOWNS FOR OUTER WEAR. JOSEPH NEMSER, New York, N. Y.
Filed January 6, 1920. Serial No. 126,872. PUBLISHED MAY 4, 1920.

133,766. RUBBER BELTING. NEW YORK BELTING AND PACKING COMPANY, New York, N. Y.
Filed December 5, 1917. Serial No. 107,773. PUBLISHED FEBRUARY 10, 1920.

133,767. CLOTHES-WASHING MACHINE. THE NINETEEN HUNDRED WASHER COMPANY, Binghamton, N. Y.
Filed October 25, 1919. Serial No. 124,185. PUBLISHED APRIL 6, 1920.

133,768. MALT-SYRUP USED IN THE PREPARATION OF NON-ALCOHOLIC MALT BEVERAGES SOLD AS SOFT DRINKS. NORTHWESTERN BREWERS SUPPLY CO., Milwaukee, Wis.
Filed December 15, 1919. Serial No. 126,054. PUBLISHED APRIL 20, 1920.

133,769. ELASTIC VEHICLE-TIRES. THE NORWALK TIRE AND RUBBER COMPANY, INC., Norwalk, Conn.
Filed November 21, 1919. Serial No. 125,162. PUBLISHED APRIL 13, 1920.

133,707. MOTION-PICTURE FILMS. INTERNATIONAL FILM SERVICE CO., INC., New York, N. Y.
Filed January 28, 1920. Serial No. 127,692. PUBLISHED APRIL 20, 1920.

133,708. SHOE-POLISH. IVORY POLISH COMPANY, Elyria, Ohio.
Filed January 9, 1920. Serial No. 126,963. PUBLISHED APRIL 20, 1920.

133,709. CERTAIN NAMED BELTINGS AND LACES. JEWELL BELTING COMPANY, Hartford, Conn.
Filed August 7, 1919. Serial No. 121,847. PUBLISHED APRIL 13, 1920.

133,710. CERTAIN NAMED CLOTHING. JURSIDINI EXPORT COMPANY, New York, N. Y.
Filed November 21, 1919. Serial No. 125,155. PUBLISHED MAY 4, 1920.

133,711. RUBBER BICYCLE-TIRES. KAUFMANN DEPARTMENT STORES INC., Pittsburgh, Pa.
Filed March 19, 1919. Serial No. 116,717. PUBLISHED DECEMBER 23, 1919.

133,712. BURIAL-BOXES, BURIAL-CASKETS, AND BURIAL-VAULTS. PATRICK H. KELLY, Philadelphia, Pa.
Filed September 3, 1919. Serial No. 122,257. PUBLISHED JANUARY 27, 1920.

133,713. CERTAIN MALT BEVERAGES, EXTRACTS, AND LIQUORS. C. KREN PRODUCTS CO., Port Huron, Mich.
Filed September 12, 1919. Serial No. 122,601. PUBLISHED APRIL 27, 1920.

133,714. FLUSH-TANK OUTLET-VALVES. THE KORKEY COMPANY, Detroit, Mich.
Filed April 29, 1919. Serial No. 117,981. PUBLISHED APRIL 20, 1920.

133,715. SOFT-DRINK-MIXING MACHINES. KWIK-MIX MANUFACTURING CO. INC., New York, N. Y.
Filed December 20, 1919. Serial No. 126,282. PUBLISHED APRIL 20, 1920.

133,716. SKIN-CREAM. LAMAR, TAYLOR & RILEY DRUG CO., Macon, Ga.
Filed November 25, 1919. Serial No. 125,287. PUBLISHED APRIL 20, 1920.

133,717. LEAD PRODUCTS—NAMELY, RED LEAD, LITHARGE, AND ORANGE MINERAL. LEAD PRODUCTS COMPANY, St. Louis, Mo.
Filed September 22, 1919. Serial No. 122,991. PUBLISHED MAY 4, 1920.

133,718. STOCK-FEED CRUSHERS, FEED-GRINDERS AND PARTS THEREOF, CORN-PLANTERS, AND BURS FOR FEED-MILLS. THE LETZ MANUFACTURING CO., Crown Point, Ind.
Filed July 23, 1919. Serial No. 120,834. PUBLISHED APRIL 27, 1920.

133,719. MEN'S OUTER SUITS AND OVERCOATS. CHARLES D. LEVIN, New York, N. Y.
Filed January 8, 1920. Serial No. 126,936. PUBLISHED APRIL 20, 1920.

133,720. CERTAIN NAMED TEXTILE FABRICS. LEWIS MANUFACTURING COMPANY, Walpole, Mass.
Filed May 27, 1919. Serial No. 118,968. PUBLISHED MARCH 2, 1920.

133,721. IDLERS AND ROLLS FOR CONVEYING MACHINERY. LINK-BELT COMPANY, Chicago, Ill.; Philadelphia, Pa., and Indianapolis, Ind.
Filed December 30, 1919. Serial No. 126,640. PUBLISHED APRIL 27, 1920.

133,722. CERTAIN NAMED MALT BEVERAGES, EXTRACTS, AND LIQUORS. LION BREWERY OF NEW YORK CITY, New York, N. Y.
Filed September 8, 1919. Serial No. 122,441. PUBLISHED APRIL 27, 1920.

133,723. CERTAIN NAMED CLOTHING. S. S. LOEB & CO., Boston, Mass.
Filed October 18, 1919. Serial No. 123,746. PUBLISHED MAY 4, 1920.

133,724. NON-ALCOHOLIC MALT BEVERAGES. V. LOEWER'S GAMBRINUS BREWERY CO., New York, N. Y.
Filed February 11, 1919. Serial No. 115,771. PUBLISHED DECEMBER 9, 1919.

133,725. CIGARS. A. J. LONG CIGAR & GROCERY CO., Macon, Ga.
Filed November 12, 1919. Serial No. 124,800. PUBLISHED MARCH 2, 1920.

133,726. WHEAT-FLOUR. THE LONGMONT FARMERS MILLING & ELEVATOR CO., Longmont, Colo.
Filed February 3, 1917. Serial No. 101,150. PUBLISHED APRIL 20, 1920.

133,727. UNBLEACHED, DYED, AND PRINTED DRILLS, TWILLS, AND SHEETING. M. LOWENSTEIN & SONS, INC., New York, N. Y.
Filed May 5, 1919. Serial No. 118,157. PUBLISHED JANUARY 27, 1920.

133,728. LEATHER SHOES AND JULIETTES. LUNN & SWEET CO., Auburn, Me.
Filed November 17, 1919. Serial No. 124,999. PUBLISHED MAY 4, 1920.

133,729. UNDERWEAR CONSISTING OF ONE- AND TWO-PIECE TEXTILE, KNITTED OR WOVEN UNDERGARMENTS. LUXITE SILK PRODUCTS CO., Milwaukee, Wis.
Filed January 10, 1920. Serial No. 127,005. PUBLISHED MAY 4, 1920.

133,730. CULTIVATORS. CHARLES S. MCCARTHY, Jr., Sandusky, Ohio
Filed December 24, 1919. Serial No. 126,418. PUBLISHED APRIL 20, 1920.

133,731. LIQUID FURNITURE-POLISH. MCCOMB BROTHERS, Scarsdale, N. Y.
Filed March 1, 1920. Serial No. 129,071. PUBLISHED APRIL 27, 1920.

133,732. LUBRICATING-OILS, RUST-PREVENTING OILS, AND MACHINE-OILS. MCCORMICK & CO., Baltimore, Md.
Filed November 5, 1918. Serial No. 114,056. PUBLISHED JANUARY 6, 1920.

133,733. MEDICINAL PREPARATIONS FOR THE TREATMENT OF AFFECTIONS OF THE THROAT AND BRONCHIAL TUBES. MCKESSON & ROBBINS INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,291. PUBLISHED APRIL 20, 1920.

133,734. THROAT-PASTILS. MCKESSON & ROBBINS INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,292. PUBLISHED APRIL 20, 1920.

133,735. BACON AND HAM. J. T. MCMILLAN COMPANY, St. Paul, Minn.
Filed April 30, 1917. Serial No. 103,424. PUBLISHED FEBRUARY 3, 1920.

133,736. BELTING MADE PARTLY OF FABRIC AND PARTLY OF RUBBER. THE MANHATTAN RUBBER MFG. CO., New York, N. Y.
Filed May 29, 1919. Serial No. 119,040. PUBLISHED FEBRUARY 24, 1920.

133,737. BELTING, PACKING, AND HOSE COMPOSED OF RUBBER OR RUBBER AND FABRIC. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J.
Filed August 8, 1919. Serial No. 121,401. PUBLISHED FEBRUARY 3, 1920.

133,738. BELTING, PARTLY OF FABRIC AND PARTLY OF RUBBER. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J.
Filed August 8, 1919. Serial No. 121,402. PUBLISHED DECEMBER 23, 1919.

133,739. BELTS, MANUFACTURED PARTLY OF RUBBER, FOR SUPPORTING OUTER GARMENTS. THE MARATHON TIRE & RUBBER CO., Cuyahoga Falls, Ohio.
Filed November 17, 1919. Serial No. 125,002. PUBLISHED MARCH 30, 1920.

133,740. CERTAIN NAMED TOOLS, APPARATUS AND TOOLS FOR METAL-WORKING. MASCHINENFABRIK SCHWEITER A.-G., Horgen, Switzerland.
Filed September 30, 1918. Serial No. 113,492. PUBLISHED APRIL 20, 1920.

133,741. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. OSCAR F. MAYER & BRO., Chicago, Ill.
Filed February 24, 1919. Serial No. 116,099. PUBLISHED JANUARY 6, 1920.

133,742. CERTAIN NAMED APPLIANCES USED UPON OR IN CONNECTION WITH AUTOMOBILES. MAYO-SKINNER MFG. COMPANY, Chicago, Ill.
LISHED APRIL 27, 1920.
Filed November 10, 1919. Serial No. 124,725. PUB-

133,743. MEN'S DRESS-SHIRTS. MORRIS MENZIN, New York, N. Y.
Filed August 6, 1919. Serial No. 121,311. PUBLISHED MAY 4, 1920.

133,744. TONIC FOR NERVOUSNESS, INDIGESTION, AND GENERAL DEBILITY. MERITONE MEDICINE CO., Nashville, Tenn.
Filed March 25, 1919. Serial No. 116,890. PUBLISHED APRIL 20, 1920.

133,745. WASTE-BASKETS MADE OF STEEL. METAL OFFICE FURNITURE CO., Grand Rapids, Mich.
Filed October 20, 1919. Serial No. 123,998. PUBLISHED MARCH 16, 1920.

133,746. COIN-OPERATED MOVING-PICTURE-VIEWING MACHINES. JOHN F. MEYER, Chicago, Ill.
Filed January 16, 1920. Serial No. 127,222. PUBLISHED APRIL 20, 1920.

133,747. CERTAIN NAMED PLUMBING AND STEAM-FITTING SUPPLIES. MICHIGAN LUBRICATOR COMPANY, Detroit, Mich.
Filed June 6, 1919. Serial No. 119,275. PUBLISHED APRIL 20, 1920.

133,748. CERTAIN NAMED CLOTHING FOR MEN, WOMEN, AND CHILDREN. J. A. MIGEL, INC., New York, N. Y.
Filed February 13, 1920, Serial No. 128,352. PUBLISHED APRIL 27, 1920.

133,749. PARASOLS AND UMBRELLAS. J. A. MIGEL, INC., New York, N. Y.
Filed February 16, 1920. Serial No. 128,455. PUBLISHED APRIL 20, 1920.

133,750. VEHICLE-TIRES MADE OF RUBBER AND FABRIC. ELLIS MILLER, New York, N. Y.
Filed July 11, 1919. Serial No. 120,466. PUBLISHED FEBRUARY 10, 1920.

133,751. SOAPS FOR CLEANING AND SCOURING PURPOSES. CONRAD G. MOLLER, New Canaan, Conn.
Filed January 20, 1920. Serial No. 127,384. PUBLISHED APRIL 20, 1920.

133,752. IRON, STEEL, SEMISTEEL, BRASS, BRONZE, AND ALUMINUM CASTINGS AND FORGINGS OF ALL KINDS. MONARCH FOUNDRY COMPANY, Stockton, Calif.
Filed December 2, 1919. Serial No. 125,508. PUBLISHED APRIL 27, 1920.

133,753. CERTAIN NAMED PLUMBING SUPPLIES. THE MONUMENT POTTERY CO., Trenton, N. J.
Filed July 25, 1918. Serial No. 112,322. PUBLISHED APRIL 20, 1920.

133,754. WOOL GLOVES. MORGAN KNITTING MILLS, INC., Newark, N. J., and New York, N. Y.
Filed February 16, 1920. Serial No. 128,458. PUBLISHED APRIL 27, 1920.

133,755. CERTAIN NAMED MOTION-PICTURE SUNDRIES. MOVETTE, INCORPORATED, Rochester, N. Y.
Filed February 8, 1919. Serial No. 115,695. PUBLISHED MARCH 23, 1920.

133,756. LADIES' VESTS AND LADIES' UNION-SUITS, ALL MADE OF KNITTED FABRIC. WALTER W. MOYER, Ephrata, Pa.
Filed January 14, 1920. Serial No. 127,138. PUBLISHED APRIL 27, 1920.

133,757. NON-INTOXICATING, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. ALLAN P. MUNRO, Cincinnati, Ohio.
Filed January 6, 1920. Serial No. 126,869. PUBLISHED MARCH 23, 1920.

133,758. RIVET-SETS, CHISEL-BLANKS, REAMERS, AND DRILLS. W. E. NAGLE & SON, Pittsburgh, Pa.
Filed November 26, 1919. Serial No. 125,338. PUBLISHED APRIL 20, 1920.

133,759. GLUE. THE NAPCO CORPORATION, Indianapolis, Ind.
Filed March 18, 1920. Serial No. 129,642. PUBLISHED APRIL 20, 1920.

133,760. LADIES' AND MISSES' BLOUSES. NATIONAL CLOAK & SUIT CO., New York, N. Y.
Filed September 29, 1919. Serial No. 123,252. PUBLISHED MAY 4, 1920.

133,761. BARE COPPER WIRE AND BARE COPPER CABLE, SHEET-BRASS AND SHEET-BRONZE, AND BRASS AND BRONZE RODS. NATIONAL CONDUIT & CABLE COMPANY, INC., Hastings-on-Hudson, N. Y.
Filed October 2, 1919. Serial No. 123,360. PUBLISHED APRIL 27, 1920.

133,762. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, OR OTHER MATERIAL. NATH'L FISHER & CO., New York, N. Y.
Filed January 23, 1920. Serial No. 127,503. PUBLISHED MAY 4, 1920.

133,763. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, OR OTHER MATERIAL. NATH'L FISHER & CO., New York, N. Y.
Filed January 5, 1920. Serial No. 126,793. PUBLISHED MAY 4, 1920.

133,764. WATER-PROOF CLOTHING OR COVERINGS CONSISTING OF RAINCOATS, LEGGINGS, AND PUTTEES. NATIONAL WATER-PROOFING COMPANY, Memphis, Tenn.
Filed September 12, 1919. Serial No. 122,607. PUBLISHED MAY 4, 1920.

133,765. LADIES' GOWNS FOR OUTER WEAR. JOSEPH NEMSER, New York, N. Y.
Filed January 6, 1920. Serial No. 126,872. PUBLISHED MAY 4, 1920.

133,766. RUBBER BELTING. NEW YORK BELTING AND PACKING COMPANY, New York, N. Y.
Filed December 5, 1917. Serial No. 107,773. PUBLISHED FEBRUARY 10, 1920.

133,767. CLOTHES-WASHING MACHINE. THE NINETEEN HUNDRED WASHER COMPANY, Binghamton, N. Y.
Filed October 25, 1919. Serial No. 124,185. PUBLISHED APRIL 6, 1920.

133,768. MALT-SYRUP USED IN THE PREPARATION OF NON-ALCOHOLIC MALT BEVERAGES SOLD AS SOFT DRINKS. NORTHWESTERN BREWERS SUPPLY CO., Milwaukee, Wis.
Filed December 15, 1919. Serial No. 126,054. PUBLISHED APRIL 20, 1920.

133,769. ELASTIC VEHICLE-TIRES. THE NORWALK TIRE AND RUBBER COMPANY, INC., Norwalk, Conn.
Filed November 21, 1919. Serial No. 125,162. PUBLISHED APRIL 13, 1920.

133,770. CERTAIN NAMED CLOTHING FOR MEN, WOMEN, BOYS, AND CHILDREN. H. OSTROWSKY Co., Chicago, Ill.
Filed November 20, 1919. Serial No. 125,122. PUBLISHED APRIL 20, 1920.

133,771. LEATHER SHOES. OTTO MEYER & Co. INC., New York, N. Y.
Filed December 9, 1919. Serial No. 125,757. PUBLISHED MAY 4, 1920.

133,772. OVERALLS, UNIONALLS, AND JUMPERS. H. D. OVERALL Co., Washington, D. C.
Filed December 23, 1919. Serial No. 126,390. PUBLISHED APRIL 20, 1920.

133,773. CERTAIN NAMED BELTINGS, LACINGS, VALVE-DISK PACKINGS, AND RUBBER HOSE. PACIFIC MILL AND MINE SUPPLY COMPANY, San Francisco, Calif.
Filed May 28, 1919. Serial No. 119,007. PUBLISHED FEBRUARY 3, 1920.

133,774. METAL-POLISH. E. J. PALMER, Chicago, Ill.
Filed October 10, 1919. Serial No. 123,658. PUBLISHED APRIL 13, 1920.

133,775. COAT-COLLARS OF VARIOUS KINDS AND COLORS AND MATERIALS. D. B. PASKIN & Co., New York, N. Y.
Filed December 27, 1919. Serial No. 126,539. PUBLISHED MAY 4, 1920.

133,776. LADIES' RIDING-HABITS. PASQUALE NARDI, New York, N. Y.
Filed December 26, 1919. Serial No. 126,483. PUBLISHED MAY 4, 1920.

133,777. DENTIFRICES. THE PENSLAR COMPANY, Detroit, Mich.
Filed November 24, 1919. Serial No. 125,240. PUBLISHED APRIL 20, 1920.

133,778. SPARK-PLUGS. ALFRED E. CORNWALL, Minneapolis, Minn.
Filed February 21, 1919. Serial No. 116,059. PUBLISHED MARCH 16, 1920.

133,779. ELECTRICALLY-OPERATED VACUUM-CREATING APPARATUS FOR PIANO-PLAYERS. PIANO MOTORS CORPORATION, Camden, N. J.
Filed January 31, 1920. Serial No. 127,833. PUBLISHED APRIL 27, 1920.

133,780. SLIPPERS MADE OF ANIMAL SKINS WITH FUR THEREON. PIERRE E. GIROUX & Co., Johnstown, N. Y.
Filed January 3, 1920. Serial No. 126,767. PUBLISHED MAY 4, 1920.

133,781. OVERALLS. THE PIONEER OVERALL COMPANY, Paterson, N. J.
Filed June 18, 1918. Serial No. 111,658. PUBLISHED APRIL 13, 1920.

133,782. DECARBONIZER FOR THE CYLINDERS OF AUTOMOBILE-ENGINES. BERT PLATT & Co., Wichita, Kans.
Filed July 10, 1919. Serial No. 120,430. PUBLISHED APRIL 20, 1920.

133,783. SMOCKS AND APRONS. BEATRICE-HUBBELL-PLUMMER, Los Angeles, Calif.
Filed February 7, 1920. Serial No. 128,107. PUBLISHED MAY 4, 1920.

133,784. SPARK-BOOSTERS OR SPARK-INTENSIFIERS. PORTER E. RAMSEY, Richmond, Va.
Filed December 10, 1919. Serial No. 125,804. PUBLISHED APRIL 27, 1920.

133,785. CERTAIN NAMED CHILDREN'S CLOTHING. THE PRISCILLA COMPANY, Boston, Mass.
Filed August 21, 1919. Serial No. 121,872. PUBLISHED APRIL 27, 1920.

133,786. CONTAINERS AND STERILIZERS FOR TOOTHBRUSHES, USUALLY MADE TUBULAR AND EQUIPPED WITH AN END CLOSURE. HARRY R. RADIN, Newark, N. J.
Filed October 17, 1919. Serial No. 123,906. PUBLISHED JANUARY 27, 1920.

133,787. SOAPS. RED "C" OIL MANUFACTURING Co., Baltimore, Md.
Filed January 19, 1920. Serial No. 127,328. PUBLISHED APRIL 20, 1920.

133,788. POLISHING AND WIPING CLOTH. REGAL POLISHING CLOTH Co., Chicago, Ill.
Filed August 25, 1919. Serial No. 121,993. PUBLISHED APRIL 13, 1920.

133,789. COTTON AND LINEN EMBROIDERIES IN THE PIECE. THOS. ROWBOTTOM Co., INC., New York, N. Y.
Filed December 4, 1919. Serial No. 125,581. PUBLISHED MAY 18, 1920.

133,790. COMPOSITION HAIRPINS, WIRE HAIRPINS, HAIR-FASTENERS, HAIR-WAVERS, SAFETY-PINS, AND TOILET-PINS. REICHMAN & FAUST, New York, N. Y.
Filed January 22, 1920. Serial No. 127,488. PUBLISHED APRIL 13, 1920.

133,791. WORK-SHIRTS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed January 5, 1920. Serial No. 126,821. PUBLISHED MAY 4, 1920.

133,792. CERTAIN NAMED EXPLOSIVES, FIREARMS, AND PROJECTILES. THE REMINGTON ARMS UNION METALLIC CARTRIDGE Co. INC., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; Hoboken, N. J., and New York, N. Y., assignor to Remington Arms Company, Inc., of New York, N. Y., a Corporation of Delaware.
Filed September 26, 1919. Serial No. 123,169. PUBLISHED APRIL 6, 1920.

133,793. MOTION-PICTURE FILMS. REPUBLIC DISTRIBUTING CORPORATION, New York, N. Y.
Filed February 9, 1920. Serial No. 128,169. PUBLISHED MARCH 30, 1920.

133,794. LADIES' WAISTS. REUBEN & ZUKERMAN, INC., New York, N. Y.
Filed December 18, 1919. Serial No. 126,232. PUBLISHED MAY 4, 1920.

133,795. READY-MIXED PAINT, READY-MIXED INSIDE AND OUTSIDE ENAMELS, READY-MIXED COLORS IN OIL, AND VARNISH. REX PAINT CORPORATION, New York, N. Y.
Filed February 28, 1919. Serial No. 116,213. PUBLISHED APRIL 27, 1920.

133,796. DRESSES AND MIDDY-BLOUSES. RICH-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed February 14, 1920. Serial No. 128,407. PUBLISHED APRIL 27, 1920.

133,797. NON-ALCOHOLIC, MALTLESS, NON-CEREAL BEVERAGES. JACOB RIES BOTTLING WORKS, INC., Shakopee, Minn.
Filed January 19, 1920. Serial No. 127,331. PUBLISHED APRIL 27, 1920.

133,798. TANKS AND TANKS FOR HOT WATER COMMONLY KNOWN AS STAND OR RANGE BOILERS. RIVERSIDE BOILER WORKS, INC., Cambridgeport, Mass.
Filed October 13, 1919. Serial No. 123,757. PUBLISHED MARCH 30, 1920.

133,799. CERTAIN NAMED FOOD PRODUCTS. W. R. ROACH & Co., Hart, Mich.
Filed September 13, 1918. Serial No. 113,166. PUBLISHED SEPTEMBER 16, 1919.

133,800. CLOTHES-WASHING MACHINES. ROCHESTER WASHING MACHINE CORP., Rochester, N. Y.
Filed June 26, 1919. Serial No. 119,988. PUBLISHED JANUARY 2, 1920.

133,801. HOSIERY. RODGERS HOSIERY COMPANY, INCORPORATED, Philadelphia, Pa.
Filed January 15, 1920. Serial No. 127,185. PUBLISHED MAY 4, 1920.

133,802. MEN'S COATS, VESTS, PANTS, AND OVERCOATS. ROSENBERG BROS. & Co., Rochester, N. Y.
Filed February 18, 1920. Serial No. 128,562. PUBLISHED APRIL 27, 1920.

133,803. MEN'S COATS, VESTS, PANTS, AND OVERCOATS. ROSENBERG BROS. & Co., Rochester, N. Y.
Filed February 18, 1920. Serial No. 128,563. PUBLISHED APRIL 27, 1920.

133,804. SANITARY PAPER DRINKING-CUPS. CHARLES ROSENTHAL, New York, N. Y.
Filed September 16, 1919. Serial No. 122,788. PUBLISHED JANUARY 27, 1920.

133,805. CERTAIN NAMED CLOTHING FOR MEN AND WOMEN. LEON F. RUBENS, Philadelphia, Pa.
Filed October 22, 1919. Serial No. 124,076. PUBLISHED APRIL 20, 1920.

133,806. POCKET, TABLE, BUTCHER, AND TRADE KNIVES. JOHN RUSSELL CUTLERY COMPANY, Turners Falls, Mass.
Filed March 1, 1920. Serial No. 129,093. PUBLISHED APRIL 20, 1920.

133,807. TABLE, BUTCHER, AND TRADE KNIVES. JOHN RUSSELL CUTLERY COMPANY, Turners Falls, Mass.
Filed March 1, 1920. Serial No. 129,094. PUBLISHED APRIL 20, 1920.

133,808. WASHBOILERS FOR LAUNDRY PURPOSES. SARGOY BROS., Brooklyn, N. Y.
Filed October 22, 1919. Serial No. 124,078. PUBLISHED MAY 4, 1920.

133,809. SHOE-LACES. CHARLES P. SCHAEFFER, Reading, Pa.
Filed January 29, 1920. Serial No. 127,740. PUBLISHED APRIL 13, 1920.

133,810. OINTMENT TO BE USED IN THE TREATMENT OF LA GRIPPE, COLDS, INFLAMMATION, CONGESTION. SAMUEL SCHLUP, Cambridge, Ohio.
Filed October 20, 1919. Serial No. 124,014. PUBLISHED APRIL 20, 1920.

133,811. RUBBER TIRES. MAX A. SCHWARTZ, New York, N. Y.
Filed September 10, 1919. Serial No. 122,555. PUBLISHED FEBRUARY 3, 1920.

133,812. CERTAIN NAMED RECEPTACLES. SEALRIGHT COMPANY, INC., Fulton, N. Y.
Filed March 10, 1919. Serial No. 116,448. PUBLISHED APRIL 13, 1920.

133,813. LUBRICATING OILS AND GREASES. ROBINSON P. SEARLE, Toledo, Ohio.
Filed September 26, 1919. Serial No. 123,177. PUBLISHED MAY 4, 1920.

133,814. LUBRICATING OILS AND GREASES. ROBINSON P. SEARLE, Toledo, Ohio.
Filed September 26, 1919. Serial No. 123,178. PUBLISHED MAY 4, 1920.

133,815. HOSIERY FOR MEN AND WOMEN. WILLIAM BENJAMIN SEIDEL, Reading, Pa.
Filed February 17, 1920. Serial No. 128,531. PUBLISHED APRIL 27, 1920.

133,816. POWDER FOR CLEANING WHITE SHOES AND CLOTHING. JOHN A. SELBY, Camden, N. J.
Filed November 10, 1919. Serial No. 124,735. PUBLISHED APRIL 13, 1920.

133,817. LIQUID POLISH FOR PIANOS, FURNITURE, AND OTHER PAINTED OR VARNISHED SURFACES. JOHN A. SELBY, Camden, N. J.
Filed November 10, 1919. Serial No. 124,736. PUBLISHED APRIL 20, 1920.

133,818. LADIES' WAISTS FOR OUTER WEAR. SHAPIRO BROS. & MIRSKY, Los Angeles, Calif.
Filed January 20, 1920. Serial No. 127,401. PUBLISHED MAY 4, 1920.

133,819. AUTOMOBILE-TIRE PUMPS AND GREASE-GUNS. SIDEL-RATTNER MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed September 16, 1919. Serial No. 122,794. PUBLISHED FEBRUARY 3, 1920.

133,820. RAZOR-BLADES. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed October 7, 1919. Serial No. 123,528. PUBLISHED APRIL 20, 1920.

133,821. GOLF-CLUBS, FISHING-RODS, REELS, MINNOW SEINES AND NETS, CADDY-BAGS. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed November 26, 1919. Serial No. 125,348. PUBLISHED MARCH 30, 1920.

133,822. COTTON PIECE GOODS. WM. SIMPSON, SONS & Co., Philadelphia, Pa.
Filed March 11, 1920. Serial No. 129,576. PUBLISHED MAY 18, 1920.

133,823. PAPER BAGS. JOHN SINGLE, Syracuse, N. Y.
Filed July 2, 1919. Serial No. 120,225. PUBLISHED APRIL 20, 1920.

133,824. PAPER BAGS. JOHN SINGLE, Syracuse, N. Y.
Filed July 2, 1919. Serial No. 120,227. PUBLISHED APRIL 20, 1920.

133,825. SNAP-FASTENERS. "SNAPLOK," INC., New York, N. Y.
Filed July 31, 1919. Serial No. 121,159. PUBLISHED APRIL 6, 1920.

133,826. PLOWS. ERNEST E. SOWELL, Sacramento, Calif.
Filed April 9, 1919. Serial No. 117,306. PUBLISHED APRIL 20, 1920.

133,827. NON-ALCOHOLIC, NON-INTOXICATING, MALTLESS, NON-CEREAL SYRUP USED IN THE PREPARATION OF BEVERAGES. THE "SPEARMINTX" Co., Stillwater, Minn.
Filed December 15, 1919. Serial No. 126,074. PUBLISHED APRIL 20, 1920.

133,828. [WITHDRAWN.]

133,829. ELECTRICAL-LIGHTING ATTACHMENTS FOR SOUND-REPRODUCING MACHINES. STANDARD ACCESSORY CORPORATION, Milwaukee, Wis.
Filed January 23, 1920. Serial No. 127,524. PUBLISHED MAY 4, 1920.

133,830. CIGARS AND CHEROOTS. MAX E. STARLIGHT, New York, N. Y.
Filed February 26, 1919. Serial No. 116,168. PUBLISHED MARCH 30, 1920.

133,831. CIGARS AND CHEROOTS. MAX E. STARLIGHT, New York, N. Y.
Filed February 26, 1919. Serial No. 116,169. PUBLISHED MARCH 30, 1920.

133,832. CIGARS AND CHEROOTS. MAX E. STARLIGHT, New York, N. Y.
Filed February 26, 1919. Serial No. 116,170. PUBLISHED MARCH 30, 1920.

133,833. CIGARS AND CHEROOTS. MAX E. STARLIGHT, New York, N. Y.
Filed February 26, 1919. Serial No. 116,171. PUBLISHED MARCH 30, 1920.

133,834. FUEL-FEEDING SYSTEMS FOR INTERNAL-COMBUSTION ENGINES. STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill.
Filed January 17, 1920. Serial No. 127,266. PUBLISHED APRIL 27, 1920.

133,835. FLEXIBLE SHAFTING. N. A. STRAND & COMPANY, Chicago, Ill.
Filed November 28, 1919. Serial No. 125,404. PUBLISHED APRIL 27, 1920.

133,836. MIDDY-BLOUSES. STRAUS, ROYER & STRAUSS, INC., Baltimore, Md.
Filed July 10, 1919. Serial No. 120,438. PUBLISHED APRIL 27, 1920.

133,837. SELF-VULCANIZING PATCHES. MOSES STRAUSS, San Francisco, Calif.
Filed July 23, 1919. Serial No. 120,851. PUBLISHED FEBRUARY 10, 1920.

133,838. ASH-BAGS AND COAL-BAGS. ORSINI STUART, Liverpool, England.
Filed September 6, 1919. Serial No. 122,410. PUBLISHED MARCH 2, 1920.

133,839. ELECTRIC-LIGHTING FIXTURES. ST. LOUIS BRASS MFG. CO., St. Louis, Mo.
Filed February 28, 1917. Serial No. 101,780. PUBLISHED APRIL 27, 1920.

133,840. ELECTRIC-LIGHTING FIXTURES. ST. LOUIS BRASS MFG. CO., St. Louis, Mo.
Filed February 28, 1917. Serial No. 101,781. PUBLISHED APRIL 27, 1920.

133,841. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS, AND FLAVORS FOR THE SAME. HENRY H. SUMMER, Jackson, Tenn.
Filed January 20, 1920. Serial No. 127,405. PUBLISHED APRIL 20, 1920.

133,842. WASHING-POWDER. HENRY CLAY SUTTON, Rising Star, Tex.
Filed November 20, 1919. Serial No. 125,131. PUBLISHED MARCH 23, 1920.

133,843. COFFEE. SWANSON BROS., Chicago, Ill.
Filed February 1, 1919. Serial No. 115,577. PUBLISHED MARCH 9, 1920.

133,844. CIGARETTES. TOBACCO PRODUCTS EXPORT CORPORATION, New York, N. Y.
Filed November 1, 1919. Serial No. 124,451. PUBLISHED FEBRUARY 3, 1920.

133,845. PAPER WINDOW-SHADES. TALBERT-WHITMORE COMPANY, Los Angeles, Calif.
Filed May 26, 1919. Serial No. 118,944. PUBLISHED MARCH 16, 1920.

133,846. LIVER-PILLS. ISAAC H. TAYLOR, Atlanta, Ga.
Filed November 17, 1919. Serial No. 125,038. PUBLISHED APRIL 20, 1920.

133,847. LINIMENT FOR USE IN CERTAIN NAMED AILMENTS. HENRY THAYER & CO., INC., Cambridge, Mass.
Filed November 22, 1919. Serial No. 125,198. PUBLISHED APRIL 20, 1920.

133,848. BOOTS AND SHOES. THOS. H. LOGAN CO., Hudson, Mass.
Filed January 9, 1920. Serial No. 126,967. PUBLISHED MAY 4, 1920.

133,849. LEATHER SHOES FOR MEN, WOMEN, AND CHILDREN. W. H. TOMLINSON & COMPANY, Bay City, Mich.
Filed August 27, 1918. Serial No. 112,898. PUBLISHED MARCH 16, 1920.

133,850. [WITHDRAWN.]

133,851. CERTAIN NAMED CLOTHING. AMERICUS R. UNDERDOWN, Jr., Haddonfield, N. J.
Filed February 17, 1919. Serial No. 115,937. PUBLISHED APRIL 27, 1920.

133,852. CARBONATED SODA-WATER. UNIVERSAL BEVERAGE COMPANY, St. Louis, Mo.
Filed January 2, 1920. Serial No. 126,753. PUBLISHED APRIL 27, 1920.

133,853. CANDY. UNITED DRUG COMPANY, Boston, Mass.
Filed December 15, 1919. Serial No. 126,077. PUBLISHED MARCH 9, 1920.

133,854. STAYS, STRAPS, BINDINGS, AND ARTICLES OF LEATHER USED IN MANUFACTURING OF HARNESS, TRUNKS, TRAVELING-BAGS. UNITED STAY COMPANY, Cambridge, Mass.
Filed April 30, 1919. Serial No. 118,026. PUBLISHED FEBRUARY 24, 1920.

133,855. BINDINGS, PIPINGS, FACINGS, AND TRIMMINGS OF LEATHER FOR USE IN THE MANUFACTURE OF SHOES. UNITED STAY COMPANY, Cambridge, Mass.
Filed April 30, 1919. Serial No. 118,027. PUBLISHED APRIL 27, 1920.

133,856. FLOOR-COVERING AT PRESENT MADE OF RUBBER COMPOUND. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed July 21, 1919. Serial No. 120,778. PUBLISHED MAY 4, 1920.

133,857. JAR-RINGS. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed May 31, 1919. Serial No. 119,091. PUBLISHED FEBRUARY 3, 1920.

133,858. HOSE MADE OF FABRIC AND RUBBER. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed May 24, 1919. Serial No. 118,899. PUBLISHED DECEMBER 23, 1919.

133,859. MAPLE TABLE-SYRUP. VERMONT MAPLE SYRUP COMPANY, INC., Essex Junction, Vt.
Filed June 10, 1919. Serial No. 119,458. PUBLISHED APRIL 20, 1920.

133,860. WATER-MOTORS. VICTOR WATER MOTOR CORPORATION, New York, N. Y.
Filed January 7, 1919. Serial No. 115,031. PUBLISHED APRIL 20, 1920.

133,861. PAPER BAGS. VICTORY BAG & PAPER CO., Chicago, Ill.
Filed October 14, 1918. Serial No. 113,727. PUBLISHED MARCH 2, 1920.

133,862. PLACKET-FASTENERS, GLOVE-FASTENERS, BUTTONS, SNAP-FASTENERS, AND CLASPS NOT MADE OF PRECIOUS METAL. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,063. PUBLISHED JANUARY 20, 1920.

133,863. CERTAIN NAMED FANCY GOODS, FURNISHINGS, AND NOTIONS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,070. PUBLISHED APRIL 13, 1920.

133,864. CERTAIN NAMED CLOTHING. R. WALKER & SONS LIMITED, Leicester, England.
Filed August 24, 1918. Serial No. 112,865. PUBLISHED NOVEMBER 11, 1919.

133,865. SWEATER-COATS. WATTS, RITTER & COMPANY, Huntington, W. Va., and New York, N. Y.
Filed February 7, 1920. Serial No. 128,125. PUBLISHED APRIL 20, 1920.

133,866. NON-INTOXICATING MALT BEVERAGE HAVING LESS THAN ONE-HALF PER CENT. OF ALCOHOL, BY VOLUME. HENRY WEINHARD ESTATE, Portland, Oreg.; Louise Weinhard, Anna Wessinger, Louise Wagner, Paul Wessinger, and Henry Wagner, executrices and executors of the estate of said Henry Weinhard, deceased.
Filed February 21, 1917. Serial No. 101,585. PUBLISHED MARCH 27, 1917.

133,867. GAMES. THE WEINTHROP COMPANY, Chicago, Ill.
Filed February 23, 1918. Serial No. 109,186. PUBLISHED APRIL 20, 1920.

133,868. CLOTHES-WASHING MACHINES, CLOTHES-WRINGERS, AND COMBINATIONS AS WELL AS PARTS OF SAME. GUSTAVE WENZELMANN, Galesburg, Ill.
Filed August 18, 1919. Serial No. 121,800. PUBLISHED JANUARY 27, 1920.

133,869. CERTAIN NAMED MACHINERY. WESTERN WHEELED SCRAPER COMPANY, Aurora, Ill.
Filed December 12, 1919. Serial No. 125,922. PUBLISHED APRIL 27, 1920.

133,870. CANNED TUNA FISH. WHITE STAR CANNING CO., East San Pedro, Calif.
Filed December 15, 1919. Serial No. 126,084. PUBLISHED MARCH 9, 1920.

133,871. BROOMS. THE WHITE-VALENTINE COMPANY, Urbana, Ohio.
Filed September 18, 1919. Serial No. 122,868. PUBLISHED JANUARY 6, 1920.

133,872. CERTAIN NAMED ARTICLES MOUNTED IN PRECIOUS METAL. HENRY WIENER, New York, N. Y.
Filed November 26, 1919. Serial No. 125,355. PUBLISHED APRIL 6, 1920.

133,873. DRY-CELL BATTERIES. WINCHESTER REPEATING ARMS CO., New Haven, Conn.
Filed February 13, 1920. Serial No. 128,377. PUBLISHED APRIL 27, 1920.

133,874. ELECTRICAL HEATERS FOR AIR. J. WINTHROP TEWKSBURY, New York, N. Y., assignor to Universal Interests, Inc., New York, N. Y., a Corporation of Delaware.
Filed December 3, 1919. Serial No. 125,551. PUBLISHED APRIL 27, 1920.

133,875. PISTON-RINGS. EDWARD WILSON, St. Louis, Mo.
Filed April 1, 1919. Serial No. 117,097. PUBLISHED FEBRUARY 3, 1920.

133,876. FILTER FOR SMOKING-PIPES. CHARLES E. WILTSEY, East Orange, N. J.
Filed November 8, 1919. Serial No. 124,700. PUBLISHED MARCH 23, 1920.

133,877. CHEMICAL PREPARATION USED AS AN ELECTROLYTE IN ELECTRICAL ACCUMULATORS. CHARLES HENRY WORSNOP, Halifax, England.
Filed April 16, 1919. Serial No. 117,545. PUBLISHED APRIL 20, 1920.

133,878. ELECTRICAL ACCUMULATORS. CHARLES HENRY WORSNOP, Halifax, England.
Filed April 17, 1919. Serial No. 117,582. PUBLISHED NOVEMBER 25, 1919.

133,879. PAPER BAGS. WORTENDYKE MANUFACTURING COMPANY, Richmond, Va.
Filed February 14, 1919. Serial No. 115,869. PUBLISHED JUNE 17, 1919.

133,880. HAIR-TONIC AND TOILET DEODORANT. JOHN R. WATKINS, Norfolk, Va.
Filed November 22, 1919. Serial No. 125,212. PUBLISHED APRIL 20, 1920.

133,881. MEN'S AND BOYS' OVERCOATS. WYMAN PARTRIDGE & CO., Minneapolis, Minn.
Filed February 7, 1920. Serial No. 128,128. PUBLISHED APRIL 20, 1920.

133,882. MEN'S KNIT UNDERWEAR AND SWEATERS. WYMAN PARTRIDGE & CO., Minneapolis, Minn.
Filed February 7, 1920. Serial No. 128,130. PUBLISHED APRIL 20, 1920.

133,883. VARNISH, READY-MIXED PAINTS, ROOFING-PAINTS, ASPHALT PAINTS, ENAMEL PAINTS, AND LACQUERS. YOUNG & KLOTS, New York, N. Y.
Filed November 1, 1919. Serial No. 124,463. PUBLISHED APRIL 27, 1920.

133,884. TWINE. ZELLERBACH PAPER COMPANY, San Francisco, Calif.
Filed December 24, 1919. Serial No. 126,433. PUBLISHED APRIL 20, 1920.

133,885. HAIR-GROWER. JOHN J. ZOFSAK, Greensburg, Pa.
Filed April 3, 1919. Serial No. 117,148. PUBLISHED APRIL 20, 1920.

133,886. [WITHDRAWN.]

133,887. ASBESTOS COMPOSITION PACKINGS. GOETZE GASKET & PACKING COMPANY, New Brunswick, N. J.
Filed December 12, 1918. Serial No. 114,607. PUBLISHED FEBRUARY 24, 1920.

LABELS

REGISTERED AUGUST 3, 1920.

21,926.—*Title:* "HELOX-ANTISEPTIC HEALING POWDER VETERINARY." (For Antiseptic Healing-Powder.) ALLAIRE, WOODWARD & CO., Peoria, Ill. Filed February 9, 1920.

21,927.—*Title:* "DEWKIST." (For Strawberries.) HENRY A. BAKER, Puyallup, Wash. Filed February 24, 1920.

21,928.—*Title:* "PRINCESS MACKEREL." (For Canned, Cooked, and Seasoned Mackerel.) PETER BARNA, New York, N. Y. Filed March 4, 1920.

21,929.—*Title:* "LIME DROPS." (For Candies.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed February 24, 1920.

21,930.—*Title:* "QUEEN OF TALCUMS." (For Talcum Powders.) BO-KAY PERFUME COMPANY, New York, N. Y., and Jacksonville, Fla. Filed November 13, 1919.

21,931.—*Title:* "SWEET CORN." (For Seed-Corn.) ALFRED J. BROWN SEED COMPANY, Grand Rapids, Mich. Filed February 19, 1920.

21,932.—*Title:* "BURGESS UNIPLEX BATTERY." (For Electric Batteries.) BURGESS BATTERY COMPANY, Madison, Wis. Filed February 18, 1920.

21,933.—*Title:* "GOODEST-EVER." (For Soda-Water.) CAIRO FOOD PRODUCTS COMPANY, Cairo, Ill. Filed February 3, 1920.

21,934.—*Title:* "GOODEST-EVER." (For Ice-Cream.) CAIRO FOOD PRODUCTS COMPANY, Cairo, Ill. Filed February 3, 1920.

21,935.—*Title:* "MILO FRUIT CHEWING GUM." (For Chewing-Gum.) ABRAHAM COLKER, Newport, Ky. Filed February 28, 1920.

21,936.—*Title:* "KEE-KO." (For a Washing Preparation.) THE P. W. DRACKETT AND SONS COMPANY, Cincinnati, Ohio. Filed February 6, 1920.

21,937.—*Title:* "DOLORES." (For Cigars.) C. B. HENSCHEL MFG. CO., Milwaukee, Wis. Filed February 16, 1920.

21,938.—*Title:* "LIL JOE." (For Candies.) FOX CANDY COMPANY, Oakland, Calif. Filed March 3, 1920.

21,939.—*Title:* "THE H & A BEST JUTE CLOTHES LINE." (For Jute Clothesline.) THE HOOVEN AND ALLISON COMPANY, Xenia, Ohio. Filed October 20, 1919.

21,940.—*Title:* "THE H & A BEST SISAL CLOTHES LINE." (For Sisal Clothesline.) THE HOOVEN AND ALLISON COMPANY, Xenia, Ohio. Filed October 20, 1919.

21,941.—*Title:* "THE H & A BEST NEW ZEALAND HEMP CLOTHES LINE." (For New Zealand Hemp Clothesline.) THE HOOVEN AND ALLISON COMPANY, Xenia, Ohio. Filed October 20, 1919.

21,942.—*Title:* "THE H & A BEST ISTLE CLOTHES LINE." (For Istle Clothesline.) THE HOOVEN AND ALLISON COMPANY, Xenia, Ohio. Filed October 20, 1919.

21,943.—*Title:* "THE H & A BEST MAURITIUS CLOTHES LINE." (For Mauritius Clothesline.) THE HOOVEN AND ALLISON COMPANY, Xenia, Ohio. Filed October 20, 1919.

21,944.—*Title:* "THE H & A BEST MANILA CLOTHES LINE." (For Manila Clothesline.) THE HOOVEN AND ALLISON COMPANY, Xenia, Ohio. Filed October 20, 1919.

21,945.—*Title:* "AMEBACIDE COMPOUND." (For Remedy for Pyorrhea.) E. S. JULIAN, Athens, Tenn. Filed March 4, 1920.

21,946.—*Title:* "KEMI-PLUZ LIQUID WELDING SOLUTION." (For a Chemical Solution for Sealing Leaks in Automobile-Radiators and Steam-Boilers.) KEMI-PLUZ MANUFACTURING CO., Jamaica Plain, Mass. Filed February 26, 1920.

21,947.—*Title:* "THE FAMOUS BREW." (For Coffee.) MCCORD-BRADY COMPANY, Omaha, Nebr. Filed February 3, 1920.

21,948.—*Title:* "MEN-THO-EZE 'GRANDMA KNOWS.'" (For Ointment.) MEN-THO-EZE CORPORATION, Fort Dodge, Iowa. Filed February 24, 1920.

21,949.—*Title:* "CHOCOLATE COVERED CHERRIES." (For Chocolate-Covered Cherries.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed February 20, 1920.

21,950.—*Title:* "VALUE RECEIVED." (For Chocolates.) A. G. MORSE CO., Chicago, Ill. Filed February 7, 1920.

21,951.—*Title:* "THE PREFERRED CHOCOLATES." (For Chocolates.) A. G. MORSE CO., Chicago, Ill. Filed February 9, 1920.

21,952.—*Title:* "DITTY DOTTY." (For Candy.) THE OHIO CONFECTION COMPANY, Cleveland, Ohio. Filed February 7, 1920.

21,953.—*Title:* "ALP." (For Men's Drawers.) A. L. PIERSON MFG. CO., Galveston, Tex. Filed February 24, 1920.

21,954.—*Title:* "EVER SNAP." (For Garment-Fasteners.) ROSEBECK COMPANY, New York, N. Y. Filed February 7, 1920.

21,955.—*Title:* "OUR PRIDE." (For Apples.) SCOBEL AND DAY, New York, N. Y. Filed February 24, 1920.

21,956.—*Title:* "MIRACLE." (For Canned Peaches.) ST. JOE CANNING CO., St. Joseph, Mich. Filed February 17, 1920.

PRINTS

REGISTERED AUGUST 3, 1920.

5,275.—*Title:* "'YOUREX' THE SILVER PLATED KNIVES." (For Silver-Plated Knives.) ASSOCIATED SILVER COMPANY, Chicago, Ill. Filed February 25, 1920.

5,276.—*Title:* "FOR THE LITTLE FOLKS." For Scissors and Shears.) THE ACME SHEAR COMPANY, Bridgeport, Conn. Filed March 3, 1920.

5,277.—*Title:* "HANDY CANDY SWEET BIRCHES." (For Candies.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed February 24, 1920.

5,278.—*Title:* "WHAT TABBING COMPOUND PERMITS THIS? ONLY NUREX!" (For Tabbing Compounds.) THE LEE HARDWARE CO., Salina, Kans. Filed February 26, 1920.

5,279.—*Title:* "YOU CAN DO THIS WITH NUREX." (For Tabbing Compounds.) THE LEE HARDWARE CO., Salina, Kans. Filed February 6, 1920.

5,280.—*Title:* "THE PRICE OF BEAUTY." (For Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed February 14, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

OPINION OF THE SOLICITOR OF THE DEPARTMENT OF THE INTERIOR.

1. TRADE-MARKS—ACT OF MARCH 19, 1920, CONSTRUED—MARKS REGISTERABLE UNDER ACT OF 1905 NOT REGISTERABLE UNDER SECTION (*b*).

Marks which are registerable under the Trade-Mark Act of February 20, 1905, are not registerable under section (*b*) of the act of March 19, 1920.

2. SAME—SAME—MARKS NOT REGISTERABLE UNDER SECTION (*b*).

In the act of March 19, 1920, providing that the Commissioner shall keep a register of "(*b*) all other marks not registerable under the act of February 20, 1905, as amended, except those specified in paragraphs (*a*) and (*b*) of section 5 of that act," etc., the provision "except those specified in paragraphs (*a*) and (*b*)" was intended to include those scheduled under (*a*) as consisting of or comprising immoral and scandalous matter and those scheduled under (*b*), consisting of or comprising the flag or coat-of-arms or other insignia of the United States, States, municipalities, or foreign nations and designs, etc., adopted by fraternal and other societies.

3. SAME—SAME—PROVISO CLAUSE OF SECTION 1 (*b*) CONSTRUED.

The proviso clause of section 1 (*b*) of the act of March 19, 1920, construed as if it read: "*Provided*, That trade-marks which are *so nearly* identical with a known trade-mark owned and used in interstate and foreign commerce, or commerce with the Indian tribes by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers, shall not be placed on this register."

4. SAME—TRANSFER OF FILING FEE FROM ONE APPLICATION TO ANOTHER.

The filing fee of ten dollars paid in connection with an application filed under the act of February 20, 1905, may be transferred to an application for registration under the act of March 19, 1920.

DEPARTMENT OF THE INTERIOR,
OFFICE OF THE SOLICITOR,
Washington, D. C., July 13, 1920.

The honorable the Secretary of the Interior.

DEAR MR. SECRETARY: By letter of June 17, 1920, the Commissioner of Patents requested my opinion respecting certain questions arising under the recent act of March 19, 1920, (Public No. 163,) entitled "An Act to Give Effect to Certain Provisions of the Convention for the Protection of Trade-Marks and Commercial Names, Made and Signed in the City of Buenos Aires, in the Argentine Republic, August 20, 1910, and for other Purposes."

Section 1 of said act provides:

That the Commissioner of Patents shall keep a register of (*a*) all marks communicated to him by the international bureaus provided for by the Convention for the Protection of Trade-Marks and Commercial Names, made and signed in the city of Buenos Aires, in the Argentine Republic, August 20, 1910, in connection with which the fee of $50 gold for the international registration established by article 2 of that convention has been paid, which register shall show a facsimile of the mark; the name and residence of the registrant; the number, date, and place of the first registration of the mark, including the date on which application for such registration was filed and the term of such registration, a list of goods to which the mark is applied as shown by the registration in the country of origin, and such other data as may be useful concerning the mark.

(*b*) All other marks not registerable under the act of February 20, 1905, as amended, except those specified in paragraphs (*a*) and (*b*) of section 5 of that act, but which have been in *bona fide* use for not less than one year in interstate or foreign commerce, or commerce with the Indian tribes by the proprietor thereof, upon or in connection with any goods of such proprietor upon which a fee of $10 has been paid to the Commissioner of Patents and such formalities as required by the said Commissioner have been complied with: *Provided*, That trade-marks which are identical with a known trade-mark owned and used in interstate and foreign commerce, or commerce with the Indian tribes by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers, shall not be placed on this register.

The questions asked are, in effect, as follows:

(1) Whether marks registerable under the act of February 20, 1905, can be registered under section (*b*) of the act of March 19, 1920?

(2) What is the scope or limitation of paragraph (*b*) of section 5 of the act of February 20, 1905, (33 Stat., 724,) as amended, when considered in connection with the interpretation of the recent act?

(3) Whether the filing fee of ten dollars paid in connection with an application under the act of February 20, 1905, may be transferred to an application for registration under the act of March 19, 1920, or must a new fee be required?

(4) Must a trade-mark be "identical" with a known trade-mark to be subject to rejection, or need it be only so nearly similar to a registered or known trade-mark to justify rejection?

Section 5 of the said act of February 20, 1905, has been amended by the following acts: March 2, 1907, (34 Stat., 1251;) February 18, 1911, (36 Stat., 918;) January 8, 1913, (37 Stat., 649,) and section 9 of the recent act, now under consideration.

My answer to the first question is in the negative,

as no reason has been called to my attention, and I see none, for ignoring the express provision of this law that the (*b*) register shall be kept for—

all other marks *not* registerable under the act of February 20, 1905, as amended, except those specified in paragraphs (*a*) and (*b*) of section 5 of that act, etc.

The doubt pertaining to the second question is expressed by the Commissioner, as follows:

Paragraph (*b*) after referring to State, national or society insignia goes on to specify what marks shall not be registered as well as some that may be registered. Hence the act is not clear as to what is referred to in paragraph (*b*).

In my opinion the recent act of March 19, 1920, as applied to register (*b*) therein provided should be construed as if it more specifically read as follows:

All other marks not registerable under the act of February 20, 1905, as amended, except those specified *as not registerable* in paragraphs or schedules (*a*) and (*b*) of section 5 of that act, etc.

This is the plain meaning of the law, as it was undoubtedly the intention to continue to deny registration to those marks prohibited registration by paragraphs or schedules (*a*) and (*b*) of section 5 of the act of February 20, 1905. In other words, my view is that register (*b*) provided by the recent act is not intended for any trade-mark registerable under any part of the act of February 20, 1905, nor for registration of any mark not registerable as specified in paragraphs or schedules (*a*) and (*b*) of section 5 of that act. The doubt will be relieved and a rational construction of the law will be subserved by considering the reference in the recent act to "paragraphs (*a*) and (*b*)" of section 5 of the amended act of February 20, 1905, as meaning *schedules a* and *b* rather than paragraphs strictly and as comprising the following matters specified as not registerable, viz:

(*a*) Consists of or comprises immoral or scandalous matter.

(*b*) Consists of or comprises the flag or coat-of-arms or other insignia of the United States or any simulation thereof, or of any State or municipality or of any foreign nation, or of any design or picture that has been or may hereafter be adopted by any fraternal society as its emblem, or of any name, distinguishing mark, character, emblem, colors, flag, or banner adopted by any institution, organization, club, or society which was incorporated in any State in the United States prior to the date of the adoption and use by the applicant: *Provided*, That said name, distinguishing mark, character, emblem, colors, flag, or banner was adopted and publicly used by said institution, organization, club, or society prior to the date of adoption and use by the applicant.

This was the evident intention, as shown by the congressional hearings on the recent act, and with such construction a field will exist for the operation of the new law; otherwise none would remain.

Replying to question 3, I can see no objection to applying the fee paid in connection with an application under the old law to an application under the new law. The amount of the fee is the same in either case, and it would seem it could be applied in perfecting the registration even though the applicable law be other than that originally invoked. If it be deemed necessary to amend the application, that will be merely a detail of procedure.

The fourth question arises from the language of the proviso to section 1 of the recent act above quoted. The word "identical" in its strictest sense means "exactly alike" or "the same in all respects." It is apparent that the word cannot properly be used in this sense as applied in two different objects, because it is axiomatic that no two things are exactly alike; but the word is sometimes used more loosely to mean very similar or the same in essential characteristics. I have no doubt that it is to be so understood in this case. The language of the said proviso would perhaps justify the conclusion that a comparative term, such as "so nearly," was intended to accompany the positive term "identical," so as to harmonize with the further expression "as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers." This view is strongly supported by a similar provision contained in the act of 1905, which prohibits registration of names identical or which so nearly resemble a registered or known trade-mark as to be likely to cause confusion, etc.

Cordially yours,

(Sgd.) CHARLES D. MAHAFFIE,
Solicitor.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

FRENCH BATTERY & CARBON COMPANY *v.* THE PREST-O-LITE COMPANY, INC. THE PREST-O-LITE COMPANY, INC., *v.* FRENCH BATTERY & CARBON COMPANY.

Decided May 3, 1920.

1. TRADE-MARKS — SIMILARITY — "RAY-O-LITE" AND "PREST-O-LITE."

The word "Ray-O-Lite," for storage batteries, *Held* not registrable in view of the prior use of "Prest-O-Lite" on the same goods.

2. SAME — SAME — SAME — REGISTRATION BY OTHERS OF SIMILAR MARKS.

Held that "Ray-O-Lite" may be registered for electric lamps notwithstanding the prior use by the opposer of "Prest-O-Lite" on storage batteries where other marks about as near to "Prest-O-Lite" as is "Ray-O-Lite" had been registered by others for electric lamps prior to its use by the opposer for storage batteries.

Mr. D. B. Cheever for the appellant.

Mr. E. W. Bradford for the appellee.

ROBB, *J.*:

These appeals are from a decision of the Patent Office sustaining the opposition of the Prest-O-Lite Company, Inc., to the registration by the French Battery & Carbon Company of the words "Ray-O-Lite," in connection with the sale of storage batteries, and permitting such registration as to electric lamps. The French Battery & Carbon Company appeals from the former ruling, while the Prest-O-Lite Company, Inc., appeals from the latter.

When "Ray-O-Lite" was adopted in 1917, "Prest-O-Lite" had been in extensive use on storage batteries by the Prest-O-Lite Company, Inc., for several years, and many thousands of dollars had been expended in advertising these batteries. We agree with the Commissioner that the registration of "Ray-O-Lite" for use on storage batteries would

be likely to cause confusion. (*Thomas Mfg. Co.* v. *Aeolian Co.*, 47 App. D. C., 376.) But since it appears that before the Prest-O-Lite Company extended its business to include storage batteries, other concerns had registered marks for electric lamps which, as found by the Commissioner, "are about as near to Prest-O-Lite as is Ray-O-Lite," we also agree with the Commissioner that the Prest-O-Lite Company is not in a position to prevent the registration of "Ray-O-Lite" for use on electric lamps. (*Alaska Packers Assoc.* v. *Admiralty Trading Co.*, 43 App. D. C., 198.)

The decision of the Commissioner is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

IN RE ZENK.

Decided June 2, 1920.

PATENTS—DOUBLE PATENTING—PROCESS AND PRODUCT.

A patent for a commutator comprising metal commutator-bars and a body of heat-hardened resinous condensation product holding said bars in place is not a bar to the allowance to the same inventor of a patent for the process of producing the article, involving the conception of softening the moldable material, positioning the bars radially and longitudinally, and forming a complete insulating-body simultaneously under heat and pressure, which was foreign to the processes of the prior art.

Mr. E. B. H. Tower, Jr., and *Mr. R. O. Hinkle* for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

VAN ORSDEL, *J.*:

This appeal is from the decision of the Commissioner of Patents rejecting the application of appellant Zenk for a patent for a mold and method or process of making commutators for electric generators and motors. Of the seven claims, the following three are illustrative:

1. The method of making a commutator which consists in arranging commutator segment bars circumferentially in spaced relations, surrounding certain sides of said bars with insulating material having the property of hardening under the action of heat and pressure, and applying heat and pressure to harden said material and unite it into a solid body for insulating the bars and holding them together.

6. The method of making a commutator which consists in arranging commutator segment bars circumferentially in spaced relation with a strip of insulating material between each of the bars, surrounding the inner edges and ends of the bars with an insulating material having the property of hardening under the action of heat and pressure, and applying heat and pressure to harden said material into a body which insulates said bars and firmly holds them in position.

7. A commutator mold comprising an annular outer shell having spaced notches in its inner periphery for receiving strips of insulation, an inner shell having notches therein for receiving the inner edges of commutator segment bars, the outer edges of said bars being received between the strips of insulating material positioned on the inner periphery of the outer shell, and means for supporting said shells and holding them in position so that the spaces between the commutator bars may be filled with insulating material and heat and pressure applied thereto.

In the prior art commutators were constructed of circumferentially-arranged bars or segments supported by strips of insulation and held together by clamping-rings or bolts or screws. Appellant was the first to successfully produce a purely molded commutator wherein the molded insulating material served both to insulate and hold the bars in place, dispensing entirely with mechanical support.

A patent was granted for the article produced, and the present application is confined to the process and mold. The scope of the claims of the patent, as affecting the present application, is stated by the Assistant Commissioner in his opinion, as follows:

Applicant has been allowed a patent, No. 1,255,681, on the article. Claim 1 of the patent, which was granted on the application of which the present application is a division, reads as follows:

"1. A commutator comprising metal commutator bars and a body of heat hardened resinous condensation product holding said bars in place."

Claim 4 includes the limitation that the body of resinous condensation product is molded about the bars.

These claims were allowed in view of evidence presented that no one prior to this applicant had been able to make a successful molded commutator, and that there was therefore invention in using a resinous condensation product specifically, "bakelite," as the insulating material.

We think the allowance of these claims in the Patent Office does not foreclose appellant from making the present method or process claims, unless barred by the prior art. We are of opinion that appellant's mold contains nothing patentable over the prior art. As held by the Assistant Commissioner:

Claim 7 is for the commutator mold and and the only feature of this claim not found in the mold of Lundell (September 8, 1891) is the slots in the inner and outer shell by which the commutator segments are held in position. As pointed out by the Examiners-in-Chief the slots shown in the patent to Lorimer (March 5, 1912) perform the same function as is performed by applicant's slots.

Therefore, claim 7 should be disallowed; but as to the process claims, we feel constrained to differ from the holding of the Patent Office. The present application was a division of, and was copending with, the application which resulted in the patent for the article. The patent is, therefore, not a bar even if the method or process was disclosed, inasmuch as it was not claimed. (*The Suffolk Co.* v. *Hayden*, 3 Wall., 315; *Ide* v. *Trorlicht Carpet Co.*, 115 Fed., 137, 145.)

The mere fact that the process and product claims might have been consolidated in a single patent furnishes no ground for the rejection of the process claims. Separate patents may be issued for the product and the process.

A single exercise of the inventive faculties may produce both a process and its product, a machine and the manufacture it creates, a composition of matter and the art by which it is applied to its intended use. In all such cases, if the inventions are truly separable, the inventor is entitled to a monopoly for each, although neither could have been discovered and been made available without the other. A patent for but one, though it may necessarily describe the other, is thus no hindrance to an application for a patent for the unsecured invention; but the new application must be judged according to its own intrinsic merits, as if no previous patent had been granted. (Rob. on Pats., sec. 466.)

Leaving out of consideration the product patent, and considering the process claims independently, we are of opinion that this feature of the invention is not anticipated in the prior art. Appellant's process produced the first successful molded commutator. The success over the prior art consisted in producing a commutator which would withstand the rigorous use required of it without the support of

rings, bolts or screws. This was accomplished by the novel method of manufacture devised by appellant. After the assembled bars and rings in which the bars are circumferentially spaced are placed in the mold, "powdered 'bakelite'" is forced "into the crevices and recesses of the mold." When this is completed, the mold is subjected simultaneously to pressure and a high degree of heat, resulting in the softening of the moldable material, the accurate positioning of the bars and the forcing of the moldable material into a compact solid "body which insulates said bars and firmly holds them in position." The basis of the Commissioner's disallowance of the process claims is stated in his opinion as follows:

> Claims 1 to 6 cover a process of making a commutator. Claim 7 is for the mold used in making this commutator. Claims 1 to 5 differentiate from the patent to Lundell only by the statement that the insulating material which is placed between the segment bars has the property of hardening under heat and pressure and that the heat and pressure are applied to harden this material.

It is this step in the process which, we think, constitutes invention.

Coming to the references, the Lieb patent of September 2, 1890, discloses a process in which the insulating material is first prepared "as a fluid, a plastic, or a semi-plastic mass," and when the bars are spaced—

> the insulating material is allowed to flow in or is pressed in to the interior of the ring of bars.

It will be observed that the conception of softening the moldable material, positioning the bars radially and longitudinally, and forming a complete insulating-body simultaneously under heat and pressure, was totally foreign to Lieb.

The disclosure of Lundell is still more remote. When he has the sections or segments arranged in the form of a ring, the ring is forced into a receptacle, when, as he states—

> having thus arranged the several parts, I pour into the annular space a suitable insulating material, which, on cooling or drying, becomes hard.

He had no conception of accomplishing the result by simultaneous heat and pressure.

While the question of patentability is not entirely free from doubt, we are disposed, in accordance with our rule in such cases, to resolve the doubt in favor of the inventor.

The decision of the Commissioner of Patents is affirmed as to count 7, and reversed as to counts 1 to 6, inclusive, and the clerk is directed to certify these proceedings as by law required.

Affirmed as to count 7, and reversed as to counts 1 to 6, inclusive.

ADJUDICATED PATENTS.

(U. S. D. C. N. D.) The McMillan patent, No. 1,136,885, for a support for automobile-beds, *Held* infringed by a structure which differs only in the substitution of mechanical equivalents. *McMillan* v. *Fischer Auto Bed & Camp Co.*, 264 Fed. Rep., 671.

Disclaimers.

861,183.—*Harry L. Ide*, Springfield, Ill. AUTOMOBILES. Patent dated July 23, 1907. Disclaimer filed July 12, 1920, by the assignee, *Elmer Stewart*.

Enters this disclaimer to—

"A—that part of claim 1 referred to in line 4 thereof as 'a tubular connection between said cases' excepting as if the same were limited to include the following after the word 'cases' in line 5: 'one end of said tubular connection being connected to said gearing casing and the other end having a universal support from said shaft case, said tubular connection being made with telescopic sections intermediate said ends.'

"B—that part of claim 3 specified as a 'tubular connection' in line 5 thereof excepting as limited to include the following inserted after 'case' in the last line of claim 3: 'at one end, a fixed connection with the gearing case at the other end and intermediate telescopic portions.'

"C—that part of claim 4 referred to in lines 5 and 6 as 'a tubular connection formed in telescoping sections' excepting as if including the following limitation thereon inserted after the word 'shaft' in the last line in the claim: 'one of said telescoping sections having connection with the gearing case and the other section having universal connection with the shaft case.'

"D—that part of claim 5 which includes the 'shaft having driving engagement with said gearing and said motor' excepting as if limited to the following inserted before 'said motor' in line 5: 'a sliding universal connection with'; to that part of claim 5 referred to as a 'tubular connection formed in telescoping sections' in lines 5 and 6, excepting as limited by the insertion of the word 'rotatable' before 'telescoping' in line 6; and to that part of the tubular connections made in sections referred to in lines 5 and 6 of claim 5 excepting as limited by the insertion of the following before 'said' in the next to the last line of the claim: 'one section of.'

"E—to that part of claim 6 referred to in line 1 as a 'frame mounted upon wheels' excepting as limited by the insertion of the word 'spring' before 'mounted' line 1; and to that part of claim 6 referred to in lines 5 and 6 thereof as a 'tubular connection formed in relatively rotatable sections' excepting as if limited by the addition of the following after the word 'shaft' in the last line of the claim: 'one end of one of said sections having universal connection with said shaft case.'

"F—to that part of claim 7 referred to in the next to the last line thereof as 'the tubing having universal connection with the shaft case' excepting as if limited by the insertion of the words 'at one end' after the word 'connection' in the next to the last line of the claim.

"G—to that part of claim 8, referred to in lines 4 and 5 as 'a shaft having driving connection with said gearing and said motor' excepting as if the same were limited to include the word 'sliding' before 'driving' in line 4, and also to that part of claim 8 referred to in the last four lines thereof as a tubular connection arranged as specified excepting as if limited to include the following after the word 'shaft' in the last line of claim 8: 'one end of one of said sections being universally supported.'

"H—that part of claim 9 referred to in lines 4 and 5 thereof as a 'shaft having driving connection with said gearing and said motor' excepting as if the same were limited to include the following after the word 'motor' in line 5: 'said connection including a universal joint'; and also that part of claim 9 referred to in the last five lines as a tubular connection as specified excepting as if limited by the insertion of the following words after the word 'case' in the last line of the claim: 'at one end of one of said sections.'

"I—to that part of claim 13 referred to in line 4 thereof as a 'shaft having driving connection with said gearing and said motor' excepting as if limited by the insertion of the word 'sliding' before 'driving' in line 4 and 'including a universal joint' inserted after the word 'motor' in line 5, and also to that part of claim 13 referred to in the last three lines thereof as a tubular connection as specified excepting as if limited by the insertion of the following after the word 'shaft' in the last line of the claim: 'and formed of relatively sliding sections one end of one of said sections being universally supported from the shaft case.'

"J—to that part of claim 23 referred to in line 4 as a tube as specified excepting as if limited by the insertion of the words 'surrounding the shaft' after the word 'tube' and to that part of claim 23 referred to as 'telescoping sections having a support independent of the shaft' excepting as limited by the insertion of 'one end of one section' before the word 'having' last line of the claim and the word 'universal' before the word 'support' same line.

"K—to that part of claim 24 referred to as a tube made in sections and supported as specified in the last two lines of the claim excepting as if limited by the insertion of the words 'one end of one section' before the word 'having' in the next to the last line in the claim and by the insertion of the word 'universal' before the word 'support' in the same line.

"L—to that part of claim 25 referred to in the last three lines as a tube having a support as specified excepting as if the words 'one end of one section' were inserted before the word 'having' in the next to the last line of the claim and the word 'universal' were inserted before the word 'support' in the same line."

1,306,824.—*Fritz Lubberger*, Chicago, Ill. SEMI-AUTOMATIC TELEPHONE-EXCHANGE SYSTEM. Patent dated June 17, 1919. Disclaimer filed July 15, 1920, by the assignee, *Automatic Electric Company*.

Enters this disclaimer—

"To claims 41 and 42 in the said specification, which are in the following words, to wit:

"41. In a telephone system, means for setting up a talking circuit between a calling and a called subscriber's line, a connector switch for seizing the called line controlled over two sides of the talking circuit in series, means controlled by the calling subscriber for releasing said switch, and means for preventing a calling subscriber from releasing said switch.

"42. In a telephone system, a calling and a called line, means including a trunk line and a connector switch for connecting the subscribers on said lines in conversation, said connector being controllable over the two sides of said trunk line in series, and means for releasing said connector controlled by whichever one of said subscribers who last replaces his receiver."

An Act to Give Effect to Certain Provisions of the Convention for the Protection of Trade-Marks and Commercial Names, Made and Signed in the City of Buenos Aires, in the Argentine Republic, August 20, 1910, and for Other Purposes.

[Public—No. 163—66th Congress.]

[H. R. 9023.]

An act to give effect to certain provisions of the Convention for the Protection of Trade-Marks and Commercial Names, made and signed in the city of Buenos Aires, in the Argentine Republic, August 20, 1910, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Commissioner of Patents shall keep a register of (a) all marks communicated to him by the international bureaus provided for by the Convention for the Protection of Trade-Marks and Commercial Names, made and signed in the city of Buenos Aires, in the Argentine Republic, August 20, 1910, in connection with which the fee of $50 gold for the international registration established by article 2 of that convention has been paid, which register shall show a facsimile of the mark; the name and residence of the registrant; the number, date, and place of the first registration of the mark, including the date on which application for such registration was filed and the term of such registration, a list of goods to which the mark is applied as shown by the registration in the country of origin, and such other data as may be useful concerning the mark.

(b) All other marks not registerable under the act of February 20, 1905, as amended, except those specified in paragraphs (a) and (b) of section 5 of that act, but which have been in bona fide use for not less than one year in interstate or foreign commerce, or commerce with the Indian tribes by the proprietor thereof, upon or in connection with any goods of such proprietor upon which a fee of $10 has been paid to the Commissioner of Patents and such formalities as required by the said Commissioner have been complied with: Provided, That trade-marks which are identical with a known trade-mark owned and used in interstate and foreign commerce, or commerce with the Indian tribes by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers, shall not be placed on this register.

Sec. 2. That whenever any person shall deem himself injured by the inclusion of a trade-mark on this register, he may at any time apply to the Commissioner of Patents to cancel the registration thereof. The Commissioner shall refer such application to the Examiner in Charge of Interferences, who is empowered to hear and determine this question, and who shall give notice thereof to the registrant. If it appear after a hearing before the Examiner that the registrant was not entitled to the exclusive use of the mark at or since the date of his application for registration thereof, or that the mark is not used by the registrants or has been abandoned, and the Examiner shall so decide, the Commissioner shall cancel the registration. Appeal may be taken to the Commissioner in person from the decision of the Examiner in Charge of Interferences.

Sec. 3. That any person who shall wilfully and with intent to deceive, affix, apply, or annex, or use in connection with any article or articles of merchandise, or any container or containers of the same, a false designation of origin, including words or other symbols, tending to falsely identify the origin of the merchandise, and shall then cause such merchandise to enter into interstate or foreign commerce, and any person who shall knowingly cause or procure the same to be transported in interstate or foreign commerce or commerce with Indian tribes, or shall knowingly deliver the same to any carrier to be so transported, shall be liable to an action at law for damages and to an action in equity for an injunction, at the suit of any person, firm, or corporation doing business in the locality falsely indicated as that of origin, or in the region in which said locality is situated, or at the suit of any association of such persons, firms, or corporations.

Sec. 4. That any person who shall without the consent of the owner thereof reproduce, counterfeit, copy, or colorably imitate any trade-mark on the register provided by this act, and shall affix the same to merchandise of substantially the same descriptive properties as those set forth in the registration, or to labels, signs, prints, packages, wrappers, or receptacles intended to be used upon or in connection with the sale of merchandise of substantially the same descriptive properties as those set forth in such registration, and shall use, or shall have used, such reproduction, counterfeit, copy, or colorable imitation in commerce among the several States, or with a foreign nation, or with the Indian tribes, shall be liable to an action for damages therefor at the suit of the owner thereof; and whenever in any such action a verdict is rendered for the plaintiff the court may enter judgment therein for any sum above the amount found by the verdict as the actual damages, according to the circumstances of the case, not exceeding three times the amount of such verdict, together with the costs.

Sec. 5. That it shall be the duty of a registrant under this act of a mark falling within class (a) of section 1, to comply with the law of the country in which his original registration took place, in respect to giving notice to the public that the trade-mark is registered, in connection with the use of such trade-mark in the United States of America, and in any suit for infringement by a party failing to do this, no damages shall be recovered except on proof that the defendant was duly notified of the infringement and continued the same after such notice.

Sec. 6. That the provisions of sections 15, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, and 28 (as to class (b) marks only) of the act approved February 20, 1905, entitled "An act to authorize the registration of trade-marks used in commerce with foreign nations or among the several States, or with Indian tribes, and to protect the same," as amended to date, and the provisions of section 2 of the act entitled "An act to amend the laws of the United States relating to the registration of trade-marks," approved May 4, 1906, are hereby made applicable to marks placed on the register provided for by section 1 of this act.

Sec. 7. That written or printed copies of any records, books, papers, or drawings belonging to the Patent Office and relating to trade-marks placed on the register provided for by this act, when authenticated by the seal of the Patent Office and certified by the Commissioner thereof, shall be evidence in all cases wherein the originals could be evidence, and any person making application therefor and paying the fee required by law shall have certified copies thereof.

Sec. 8. That the same fees shall be required for certified and uncertified copies of papers and for records, transfers, and other papers, under this act, as are required by law for such copies of patents and for recording assignments and other papers relating to patents.

On filing an appeal under this act to the Commissioner of Patents from the decision of the Examiner in Charge of Interferences, awarding ownership of a trade-mark, canceling or refusing to cancel the registration of a trade-mark, a fee of $15 shall be payable.

Sec. 9. That section 5 of the Trade-Mark Act of February 20, 1905, being Thirty-third Statutes at Large, page 725, as amended by Thirty-fourth Statutes at Large, page 1251, Thirty-sixth Statutes at Large, page 918, Thirty-seventh Statutes at Large, page 649, is hereby amended by adding the following words thereto: "And if any person or corporation shall have so registered a mark upon the ground of said use for ten years preceding February 20, 1905, as to certain articles or classes of articles to which said mark shall have been applied for said period, and shall have thereafter and subsequently extended his business so as to include other articles not manufactured by said applicant for ten years next preceding February 20, 1905, nothing herein shall prevent the registration of said trade-mark in the additional classes to which said new additional articles manufactured by said person or corporation shall apply, after said trade-mark has been used on said article in interstate or foreign commerce or with the Indian tribes for at least one year provided another person or corporation has not adopted and used previously to its adoption and use by the proposed registrant, and for more than one year such trade-mark or one so similar as to be likely to deceive in such additional class or classes."

Approved, March 19, 1920.

[Vol. 277. No. 1.]

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 277—No. 2. TUESDAY, AUGUST 10, 1920. Price—$5 per year.

[PUBLISHED AUGUST 11, 1920.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of August 10, 1920.

Patents	716—	No. 1,348,837	to No. 1,349,552,	inclusive.
Designs	122—	No. 55,971	to No. 56,092,	inclusive.
Trade-Marks	200—	No. 133,948	to No. 134,147,	inclusive.
Labels	7—	No. 21,957	to No. 21,963,	inclusive.
Prints	6—	No. 5,281	to No. 5,286;	inclusive.
Total	1111			

Adverse Decisions in Interference.

PATENT No. 1,273,180.

On March 28, 1920, a decision was rendered that Fred Schoenwolf was not the first inventor of the subject-matter covered by claim 12 of his Patent No. 1,273,189, subject, "Telephone-exchange system," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,296,104.

On May 28, 1920, a decision was rendered that Harry W. Munsell was not the first inventor of the subject-matter covered by claim 16 of his Patent No. 1,296,104, subject, "Semi-automatic telephone system," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,297,942.

On July 9, 1920, a decision was rendered that William Frederick Wahrenberger was not the first inventor of the subject-matter covered by claim 1 of his Patent No. 1,297,942, subject, "Wheel-carrier for demountable wheels," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,320,057.

On July 6, 1920, a decision was rendered that Rudolf E. Hellmund was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,320,057, subject, "System of control," and no appeal having been taken within the time allowed such decision has become final.

Notice of Cancelation.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., July 19, 1920.

Alfred Victor Brokhahne, his assigns or legal representatives, take notice:

An application has been filed in this Office by Sigmund Isaacs, of New York, N. Y., to effect the cancelation of the trade-mark registration of Alfred Victor Brokhahne, of New York, N. Y., No. 12,417, dated July 21, 1885. The Office having been unable to secure service upon said Alfred Victor Brokhahne at the said address, notice is hereby given that unless said Alfred Victor Brokhahne, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancelation will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 2, 1920.

Ampere Manufacturing Co., its assigns or legal representatives, take notice:

A cancelation proceeding having been instituted by this Office upon the application of Diamond Electric Specialties Corporation, 103 South Orange avenue, Newark, N. J., to effect the cancelation of the trade-mark registration of Ampere Manufacturing Co., Nos. 408–412 West Thirteenth street, New York, N. Y., No. 65,605, dated October 8, 1907, and the notice of such proceeding sent by registered mail to the said Ampere Manufacturing Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Ampere Manufacturing Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancelation will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Changes in Classification.

(ORDER No. 2,598.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 3, 1920.

It is hereby directed that class 187, Elevators, be transferred from Division IV to Division XLVII, to take effect immediately.

R. F. WHITEHEAD,
Acting Commissioner.

Briefs in Appealed Cases.

All briefs filed in this Office should have conspicuously printed thereon a statement designating the particular tribunal of the Patent Office to which the brief is addressed.

APPLICATIONS UNDER EXAMINATION.

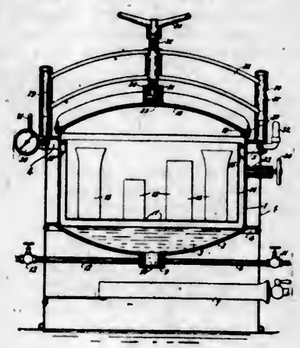
Condition at Close of Business July 31, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Mar. 1	691
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Dec. 3	Feb. 11	966
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 13	Mar. 18	481
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Nov. 17	May 11	1,549
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Mar. 31	Apr. 29	449
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 4	June 4	546
312	7. Games and Toys; Optics; Photography; Velocipedes	Mar. 29	May 10	897
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	May 12	June 7	367
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Feb. 12	Mar. 24	551
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 6	June 10	916
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Mar. 1	Mar. 30	822
222	12. Machine Elements	Nov. 13	May 1	1,162
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 7	May 28	1,212
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	June 4	666
308	15. Bread, Pastry, and Confection Making; Coating; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 14	Apr. 17	1,145
	16. Radiant Energy; Telegraphy; Telephony	Nov. 15	Dec. 11	905
111 307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	May 11	June 7	224
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 24	Mar. 24	1,146
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 12	Feb. 14	624
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 28	May 1	669
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 19	June 8	502
249	22. Aeronautics; Firearms; Ordnance	Apr. 24	June 2	285
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 13	May 11	712
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 21	June 3	644
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 28	June 30	188
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Dec. 4	Jan. 17	739
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Mar. 22	May 10	591
225	28. Internal-Combustion Engines	Feb. 16	Apr. 9	732
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Jan. 24	May 24	602
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 19	June 5	1,108
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 19	Feb. 16	1,240
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Nov. 13	Apr. 15	1,230
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 3	Apr. 17	505
301	34. Electricity-Transmission to Vehicles; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	Feb. 24	May 24	248
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	June 18	June 18	496
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 28	Feb. 27	1,215
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 6	Mar. 11	1,363
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Mar. 8	Apr. 24	805
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 15	Nov. 14	1,239
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 5	Feb. 25	893
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Dec. 3	Apr. 26	848
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Feb. 3	Mar. 11	1,021
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Dec. 11	Mar. 5	968
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Apr. 14	May 14	311
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Feb. 2	May 11	691
264	46. Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Sept. 21	Apr. 19	507
332	47. Brakes; Clutches; Fluid Pressure Brake and Analogous Systems	Dec. 17	Feb. 9	807
	Oldest new case, Sept. 21; oldest amended, Feb. 9. Total number of applications awaiting action			36,378
173	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Feb. 14	June 15	2,653
	Designs	Mar. 17	Apr. 15	668
	Labels and Prints	Mar. 6	Apr. 9	971

PATENTS

GRANTED AUGUST 10, 1920.

1,348,837. STERILIZING DEVICE. LEWIS H. ALLEN, West Springfield, Mass. Filed Feb. 14, 1919. Serial No. 276,907. 2 Claims. (Cl. 167—3.)



1. In a sterilizing device in which the steam is used as the sterilizing agent, the combination of a container having a curved bottom in which the liquid to supply the sterilizing vapor is placed and there evaporized by heat applied to the basin, a cover for the container, spaced lugs on the inside surface of the container to support a basket-like member to receive the articles to be sterilized, said member having closed sides, an open top and a perforated bottom to permit the vapor from the liquid to pass directly into said member and come in contact with the articles to be sterilized and to pass up around the side of said member and into the open top.

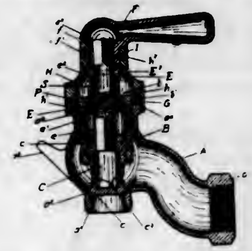
1,348,838. STOVE-DOOR. JOSEPH L. ANTHONY, Taunton, Mass., assignor to Weir Stove Company, Taunton, Mass., a Corporation of Massachusetts. Filed May 15, 1918. Serial No. 234,601. 2 Claims. (Cl. 126—200.)



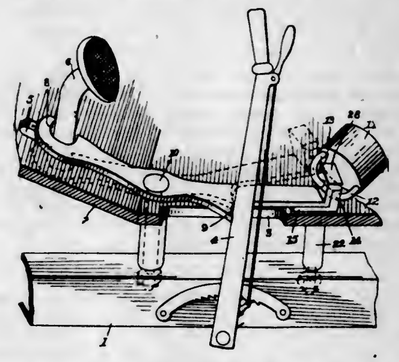
1. A stove door comprising a body having an opening therein, one or more grooved bars crossing said opening, a transparency covering said opening and comprising a plurality of glass sections disposed in a common plane with their adjacent edges abutting opposite said bar or bars, an outer retaining plate laid over said glass sections and having one or more grooved bars disposed opposite the bar or bars of said body, the adjacent faces of said body and plate being provided with peripheral grooves, pads of yielding heat-resisting material in the grooves of said body, plate and bars, said pads engaging the edges of said glass sections, and means for securing said plate to said body.

1,348,839. DISPENSING-FAUCET. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Feb. 9, 1920. Serial No. 357,233. 1 Claim. (Cl. 251—48.)

A valve comprising a casing made up of a body, a bonnet, a unitary valve-stem and a handle, a valve-guide having an inwardly extending flange with an axial opening and adapted to be clamped in axial relation to the body by the union of the body and bonnet, a valve threaded to the valve-guide and adapted to be raised and lowered by the rotation of the valve stem, said unitary valve-stem having an annular boss intermediate of its ends, a packing-ring compressed between said annular boss and said valve-guide flange, a removable collar on the valve-stem, a spring normally compressed between said collar and said valve-guide flange, said handle adapted to be used in rotating said valve-stem and means for permanently securing the handle to the bonnet in such a manner as to permit free interrotation.



1,348,840. MULTIPLE-LEVER LOCK FOR AUTOMOBILES. LOUIS BALESTRINO, Brooklyn, and GIACINTO MERIGONE, New York, N. Y. Filed Oct. 14, 1919. Serial No. 330,585. 3 Claims. (Cl. 70—126.)

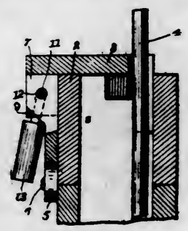


1. The combination with the floor and an under frame rail of an automobile, of a bolt secured to said rail and extending up through the floor, a control lever locking member pivoted on said bolt, a tube mounted around said bolt and also extending up through the floor to support said member above the upper surface thereof and means for securing said member in locking position.

1,348,841. AUTOMOBILE-LOCK. LOUIS BALESTRINO, Brooklyn, and GIACINTO MERIGONE, New York, N. Y. Filed Oct. 14, 1919. Serial No. 330,586. 2 Claims. (Cl. 70—131.)

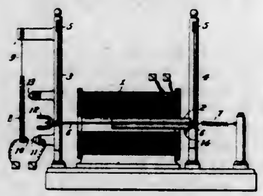
1. The combination with the transmission case of an automobile having a slot therein, and a control lever

movable in said slot, of a locking member having a notch to fit around said lever when in neutral position, lugs on said member to enter the slot at opposite sides of the lever, a laterally extending lug on said member project-



ing beyond the side of the transmission case, a bracket secured to the same side of said case, and means for locking the laterally extending lug on the locking member to said bracket for retaining it in locking position.

1,348,842. ELECTRIC RELAY OR CIRCUIT-CLOSING DEVICE. WILLIAM N. BARLOW, Yonkers, N. Y. Filed Mar. 18, 1918. Serial No. 223,151. 7 Claims. (Cl. 200—98.)

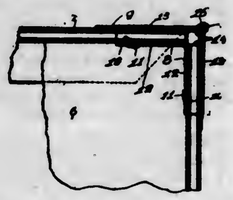


3. In an electric relay or circuit closing device, the combination of a solenoid coil, a plunger or core movable axially of said coil, and an electric circuit controlling means comprising a permanent magnet and armature, one of said parts being secured to the solenoid core.

1,348,843. METHOD OF OBTAINING TITANIC OXID. LOUIS E. BARTON, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a Corporation of Maine. Filed Feb. 27, 1919. Serial No. 279,614. 7 Claims. (Cl. 134—58.)

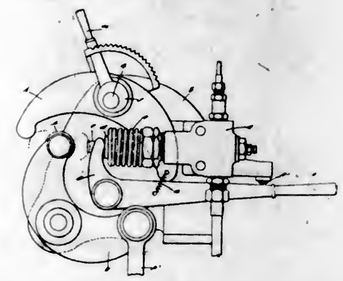
1. In obtaining titanic oxid concentrates by aid of acid treatment of material comprising both compounds of titanium and also sulfids containing iron, the step which consists in, prior to such acid treatment, converting such sulfids into oxygenated compounds.

1,348,844. HINGE FOR CORRUGATED BOXES. HARRY L. BORDERS and ELWOOD A. LEWIS, St. Louis, Mo., assignors to Standard Corrugated Box Co., St. Louis, Mo., a Corporation of Missouri. Filed Apr. 19, 1919. Serial No. 291,311. 2 Claims. (Cl. 16—104.)



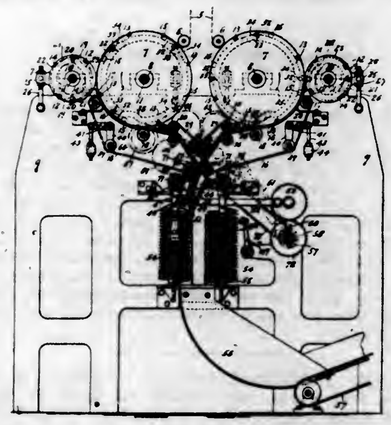
1. A hinge for corrugated boxes comprising a pair of metallic strips, teeth formed on each end of said strips, one set of teeth being longer than the other set, an eye formed in each of said strips by folding the ends of said strips being so arranged that one will project beyond the other, the faces of said strips when folded being spaced apart and parallel to each other, the teeth of the longer projecting end being adapted to extend entirely through the material of which the box is formed and folded upon the shorter end for holding the same against withdrawal from the box, and a rivet passed through the eyes of said strips for securing them side by side.

1,348,845. MEANS FOR CONTROLLING THE SUPPLY OF LIQUID FUEL TO INTERNAL-COMBUSTION ENGINES. HERBERT BROOKS, Yeovil, England, assignor to Petters Limited, Yeovil, England. Filed Nov. 29, 1918. Serial No. 264,680. 4 Claims. (Cl. 123—139.)



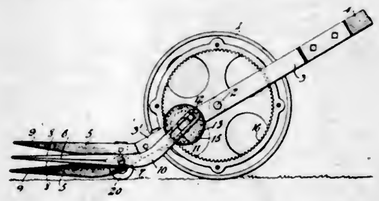
1. In internal combustion engines, of the single cylinder or multi-cylinder type the combination with means for injecting fuel into each cylinder when the piston is at or near the end of the compression stroke, of means for delivering an early injection of fuel in any one of said cylinders by means of fuel pumps corresponding to each cylinder at a predetermined time, with or without the main injection for the purpose set forth.

1,348,846. SHEET-INTERFOLDING MACHINE. GOUVERNEUR G. BROWN, New York, and PAUL A. SCHUCHART, Rockville Center, N. Y., assignors to Paper Service Company, a Corporation of New York. Filed Sept. 28, 1916. Serial No. 122,591. 18 Claims. (Cl. 270—39.)



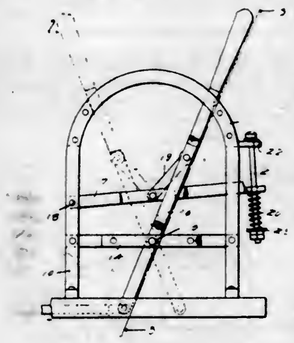
1. In combination with apparatus for creasing a plurality of webs and cutting the webs into sheets and bringing the sheets together in overlapped relation, means for interfolding the sheets, and a plurality of rotating spring spirals for receiving said interfolding sheets and feeding them away from the folding means.

1,348,847. EDGE-TRIMMER. WILLIAM HULL BROWNING, New York, N. Y. Filed Aug. 13, 1919. Serial No. 317,370. 7 Claims. (Cl. 56—247.)



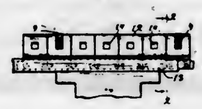
1. An edge cutter, comprising a roller, a fork connected to the roller, a handle on the fork, shears carried by one member of the fork, and a roller supporting the shears.

1,348,848. SWITCH-STAND. ROBERT T. BUTLER and HARRY E. THOMPSON, Flushing, Ohio. Filed Apr. 20, 1920. Serial No. 375,309. 5 Claims. (Cl. 246—410.)



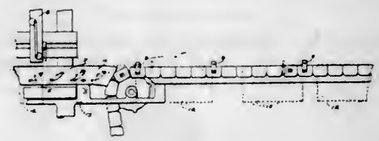
1. A switch stand having a hand lever and a spring actuated retaining lever to which the hand lever is connected by a toggle link movable to reversed position relative to the hand lever to lock the latter alternately in its adjusted positions.

1,348,849. CONVEYER FOR BOOK-STITCHING MACHINES. MARTIN CHRISTENSEN, Racine, Wis., assignor to Christensen Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed May 28, 1917. Serial No. 171,442. 4 Claims. (Cl. 193—8.)



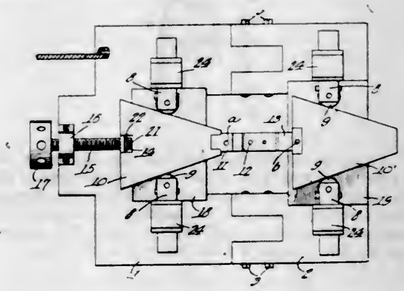
4. In a device of the class described, the combination with an endless conveyer provided with a plurality of spaced seats, of pusher members engageable in said seats and having substantially rigid and interchangeable connection with the seats but being capable of ready detachment therefrom.

1,348,850. SIGNATURE-STITCHING MACHINE. MARTIN CHRISTENSEN, Racine, Wis., assignor to Christensen Machine Co., Racine, Wis., a Corporation of Wisconsin. Filed Mar. 2, 1920. Serial No. 362,873. 3 Claims. (Cl. 1—7.)



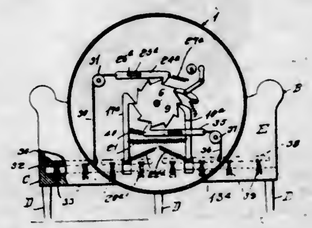
2. In a signature stitching machine, the combination with a stitcher and a feeding mechanism for presenting signatures in succession to the stitcher, of means for conveying the signatures in succession to the feeding mechanism alternately late and early whereby the stitches of alternate signatures will be in staggered relation.

1,348,851. AUTO-JACK. WILLIAM M. COOK, Warren, Ohio. Filed Oct. 1, 1919. Serial No. 327,630. 2 Claims. (Cl. 254—89.)



1. A lifting jack comprising a pair of triangular members, a bar connecting said members, means for moving said members, four housings, a wedge sliding in each housing having its inner end in contact with said triangular members, and a lifting post in each of said housings having its lower end in engagement with a wedge.

1,348,852. AUTOMATIC ADVERTISING-BENCH. GASPAR GARCIA DIAZ, New York, N. Y. Filed Aug. 13, 1918. Serial No. 249,711. 2 Claims. (Cl. 40—28.)



1. In advertising means, a bench provided with a plurality of seats hingedly secured thereto adjacent their front edges, a casing mounted on the back of said bench and provided with a display opening through its front wall, a stub shaft rotatably mounted in said casing, a display disk secured on said shaft for movement across the display opening and adapted to have advertisements inscribed upon its surface for display purposes through said opening, a ratchet wheel secured on said stub shaft, pawls engaging

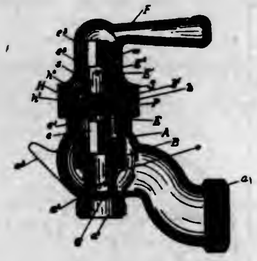
said ratchet wheel, means for normally maintaining the seat in raised position, and means for actuating said pawls so as to cause predetermined rotary movement of the ratchet wheel when certain of said seats are depressed and certain others of the seats are raised.

1,348,853. UNDERREAMER. CHARLES L. DUNHAM, Pennsboro, W. Va. Filed May 15, 1920. Serial No. 381,721. 5 Claims. (Cl. 255—76.)



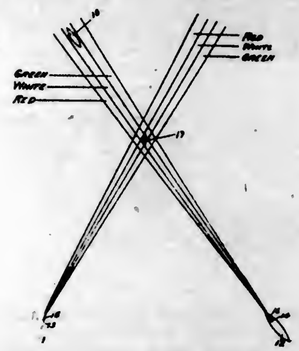
1. A reamer comprising a body portion having its lower end bifurcated and further provided with peripheral slideways, cutters having shanks extended into the furcation of and pivotally connected to the body portion, spreaders engaging the cutters, and spring controlled actuating means for the spreaders shiftable in the slideways.

1,348,854. DISPENSING-FAUCET. FRANK B. EILERS, Fort Wayne, Ind., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Aug. 8, 1918. Serial No. 248,909. 1 Claim. (Cl. 251—48.)



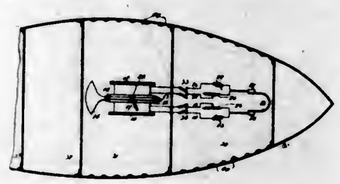
In a dispensing faucet, the combination with a valve body, a bonnet fitted to the upper end thereof, a rotatable reciprocating valve seating on said body and having an upper extension, a tubular guide element for the valve, said element having a closed top pierced at its center, and a valve stem passing through the top of said guide element and engaging the extension of said valve, said stem having a fixed flange and a fixed collar, of a coiled spring surrounding said stem and seating below on the top of the guide element, a packing between the under side of the top of the guide element and said fixed flange, and a non-rotating friction washer on the stem between the top of the spring and the fixed collar, said washer having slots in its sides and said bonnet having guide ribs on its inner surface engaged by the slots of the washer.

1,348,855. METHOD AND APPARATUS FOR LOCATING SUBMARINES. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Sept. 26, 1917. Serial No. 193,352. 4 Claims. (Cl. 161—26.)



2. A method of indicating to a second station the presence of submarines or similar bodies, which consists in determining the direction of the submarine or similar body by a submarine direction finder from a first station, and at the first station maintaining as an optical indicator to said second station an optical beam in the direction indicated by the submarine direction finder.

1,348,856. APPARATUS FOR DIRECTIVE SIGNALING. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Dec. 26, 1918. Serial No. 268,231. 7 Claims. (Cl. 181—26.)



2. The combination of a ship, a liquid-containing chamber etxending the full width of the ship, sound-insulating chambers located between said liquid-containing chamber and the bow and stern of the ship, and submarine-acoustic means located within said body of liquid.

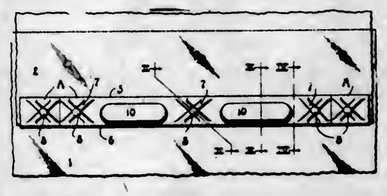
1,348,857. CLOSURE. LOUIS M. FORD, Vandalia, Ill. Filed Nov. 23, 1917. Serial No. 203,530. 1 Claim. (Cl. 206—59.)



In a closure for the central opening in a roll of sheet material, a sheet metal closure member having a central circular web, an annular wall extending outwardly from said circular web and an annular flange extending from said annular wall to engage the end face of the roll of sheet material, said circular web and annular wall being adapted to lie within the central opening in the roll of

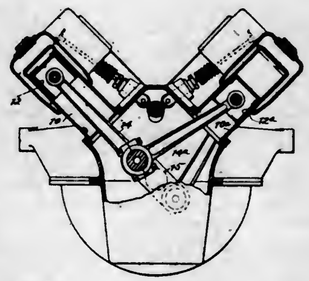
sheet material, and said annular wall being provided with oppositely disposed anchor-receiving openings; and a double-pointed flexible wire anchor which is primarily V-shaped with its pointed end portions deflected away from each other to provide diverging anchor members, said diverging anchor members being extended through said oppositely disposed openings so that they may be forced into the roll of sheet material and away from each other in opposite directions by hammering the V-shaped wire anchor.

1,348,858. CLEAT FOR SECURING AND PROTECTING SHEET-ROOFING. LOUIS M. FORD, Vandalia, Ill. Filed Mar. 4, 1918. Serial No. 220,275. 2 Claims. (Cl. 108—7.)



1. In a device for securing the lapped margins of sheet roofing, an elongated pressed metal cleat having X-shaped reinforcing elements each comprising comparatively narrow arched intersecting ribs, the top faces of the intersecting ribs being inclined upwardly to a point much higher than the metal of the body of the cleat surrounding said X-shaped reinforcing elements and being provided with a nail-receiving opening at the elevated center of each of said X-shaped reinforcing elements, and elongated longitudinal arches being formed between said X-shaped reinforcing elements.

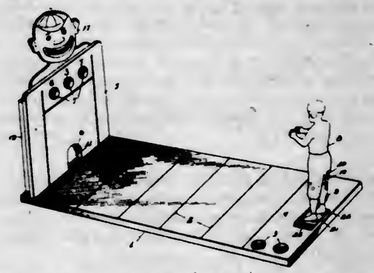
1,348,859. V-TYPE MOTOR. THEODORE W. FRECH, Cleveland, Ohio, assignor to The Peerless Motor Car Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 18, 1918. Serial No. 267,249. 4 Claims. (Cl. 121—120.)



1. A method of minimizing certain vibrations in an internal combustion engine of the V-type having two rows of cylinders of the same diameter whereof the cylinders of one row are set at 90° to the cylinders of the other row, which consists in making the moving parts associated with each cylinder in one row heavier than the moving parts associated with the opposed cylinder in the other row.

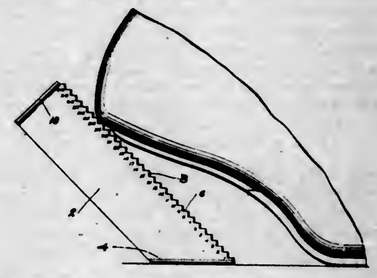
1,348,860. TOY. JOHN LEWIS FRIEND, Wilkinsburg, Pa. Filed July 30, 1918. Serial No. 247,410. 3 Claims. (Cl. 46—59.)

1. In game apparatus, the combination of a base representing a field, a head piece rising from one end of the base and formed with a plurality of openings therethrough, a projectile actuating member arranged at the opposite end of the base and adapted by manual manipulation to hurl a projectile toward said head piece, and a free projectile adapted to be thrown by said projectile actuating



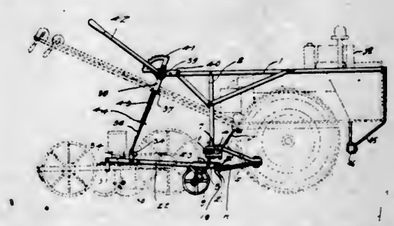
member, the latter consisting of a figure having a leg, and a leaf spring terminally fastened at one end to the figure and at its other end to said leg and forming the sole connection between said leg and figure.

1,348,861. MEASURING DEVICE. DANIEL M. FRYE, Jr., Philadelphia, Pa., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 17, 1916. Serial No. 131,940. 9 Claims. (Cl. 33—168.)



2. A device of the class described comprising a base adapted to rest on a flat surface, a portion arranged to extend upwardly in an inclined direction from the base and provided with notches spaced to indicate the number of units of heel height measurement of the heel required for a heeless shoe being measured, said notches being adapted to support the heel end of the shoe when its forepart is in proper tread relation to said flat surface, a second base, and another graduated portion arranged to extend perpendicularly to said base and marked to afford direct reading of the number of units of heel height measurement of a shoe heel.

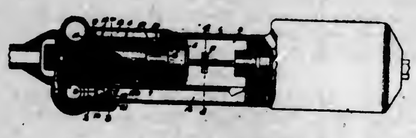
1,348,862. MULTIPLE-SEEDER ATTACHMENT FOR GARDEN-TRACTORS. CHARLES W. GENUNG, Madison, Ohio. Filed May 24, 1919. Serial No. 299,514. 5 Claims. (Cl. 97—85.)



1. In seeder attaching means, an attaching frame adapted to fit about a tractor, depending arms carried by

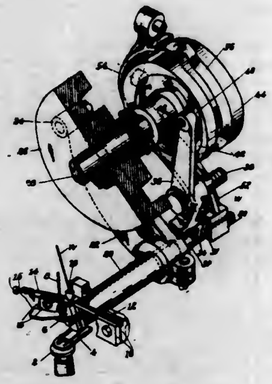
said frame in rear of the tractor, a supporting bar secured to said arms, attaching arms carried by the bar and extending forwardly thereof, rearwardly extending resilient attaching arms secured at their forward ends to the forward ends of the first mentioned attaching arms, a pull rod carried by said resilient arms at the rearward ends thereof, and means for attaching a plurality of seeders to the pull rod in parallel spaced relation so as to permit independent rise and fall thereof when the seeders are in lowered position, said means being adapted to permit raising of the seeders into inoperative position.

1,348,863. FLUID-MOTOR. GEORGE H. GILMAN, Claremont, N. H., assignor to Sullivan Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 3, 1916. Serial No. 69,937. 38 Claims. (Cl. 121—15.)



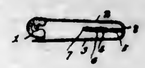
1. A direct acting fluid motor having reciprocatory means presenting two pressure reciving portions adapted to receive pressure to move said reciprocatory means in one direction, conduit means for conducting pressure fluid to both of said portions, and fluid control means providing dissimultaneous cutoffs of the supply of pressure fluid to said portions during a single stroke of said reciprocatory means.

1,348,864. MACHINE FOR MAKING FASTENINGS. GEORGE GODDU, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 29, 1916. Serial No. 75,080. 13 Claims. (Cl. 10—44.)



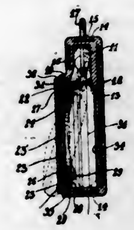
1. In a machine for making fastenings from wire, a shearing mechanism constructed to cut the wire to form simultaneously the head of one fastening and the point of the next succeeding fastening, said mechanism including shaping members having their active faces formed to make on each fastening a wedge shaped point terminating in a thin flat tip having substantially parallel sides.

1,348,865. SAFETY-PIN. SOLOMON H. GOLDBERG, Chicago, Ill., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill., a Corporation of West Virginia. Filed Dec. 23, 1916. Serial No. 138,542. 1 Claim. (Cl. 24—161.)



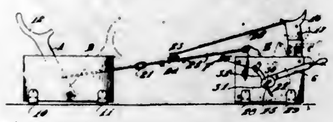
A safety pin comprising a head and a body portion, the body portion being formed of a single piece of wire, having a pair of substantially parallel outer legs and an inner leg portion the latter being formed of a twisted upper end and a hump portion, and a relatively flat terminal portion taking the form of a closed loop.

1,348,866. WATCH-PROTECTOR. PAUL GOMIL, Brooklyn, N. Y. Filed Feb. 20, 1920. Serial No. 360,205. 4 Claims. (Cl. 58—105.)



1. A watch protector, comprising in combination, a one-piece insulating casing having inlays of magnetic metal, a casing cover in waterproof connection with the casing, and means provided in said cover for firmly holding a watch within the casing.

1,348,867. LIFTING-JACK. ALEXANDER WILBERFORCE GORDON, Crossfields, Alberta, Canada. Filed July 24, 1919. Serial No. 313,126. 10 Claims. (Cl. 254—89.)



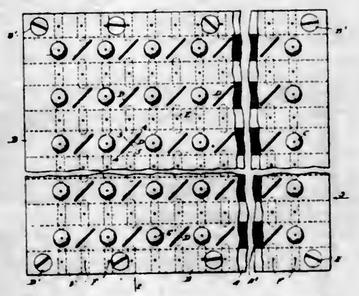
1. In a lifting jack and in combination, a power lever adapted to be engaged by the front axle of an automobile, a lifting member adapted to engage the rear axle thereof, a rack on the lifting member, a gear engaged with the rack, an operating lever, a pawl on the operating lever engaging the gear, and means for operating the operating lever from the power lever.

1,348,868. LOCK FOR MOTOR-CAR GEAR-SHIFTING LEVERS. GEORGE GREEN, Toronto, Ontario, Canada. Filed Mar. 11, 1920. Serial No. 365,010. 2 Claims. (Cl. 70—128.)

1. The combination of a shifting lever; a ball-and-socket joint for said lever to one member of which the lever is rigidly connected, holes being formed in the members of the ball-and-socket joint which are in alinement when the lever is in predetermined position; a slide movable longitudinally on the lever; a pin secured to said slide adapted to enter the holes aforesaid to lock the ball-and-socket members together; a collar on the lever; and releasable means adapted to be locked in position between the collar and slide to hold the aforesaid pin in engagement with both members of the ball-and-socket joint.



1,348,869. OIL-PRESS. MICHAEL B. GREEN, Memphis, Tenn. Filed Nov. 19, 1919. Serial No. 339,010. 5 Claims. (Cl. 100—54.)



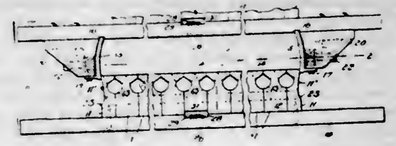
2. The combination with a plane metal base having ribs above separated by wide grooves, of a mat-supporting plate covering the base, resting on said ribs, having in its lower face recesses directly above the ribs and in open communication with the adjacent grooves, and further having perforations leading through the plate into said recesses and apertures leading through the plate directly into the grooves, substantially as set forth.

3. In a support for mats of material in an oil press, a base having in its upper surface primarily open oil carrying channels, and a plate superposed on said base and provided with a series of narrow slots oblique with respect to the warp and woof of the usual press mats laid upon the plate, and all leading into said channels.

1,348,870. OIL-PRESS. MICHAEL B. GREEN, Memphis, Tenn. Filed Mar. 6, 1920. Serial No. 363,755. 7 Claims. (Cl. 100—54.)

1. In an oil press, a mat support having its body made up of rigidly united bars laterally contacting at their upper sides in the same plane and having their meeting faces provided with registering grooves forming oil passages from end to end of the bars, each bar having in its upper side narrow oblique grooves extending downward on each side into said passages, and from the lateral margins of the bars approximately to their medial lines.

2. In an oil press, the combination with mat supports to be superposed, of plates pivotally engaged with a support above and fitting respectively against opposite lateral faces of the next support below to support the margins of the intermediate mat, and means whereby the plates are moved outward from the mats as the limit of compression is reached.

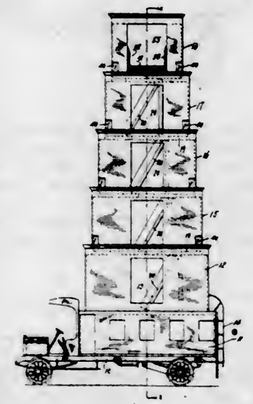


1,348,871. AUTOMOBILE-TIRE. WILLIAM A. GRIFFITHS and EDWARD J. GRIFFITHS, Homestead, Pa. Filed Dec. 20, 1919. Serial No. 346,315. 2 Claims. (Cl. 152—18.)



1. The combination with the tread portion of a tire, an outer set of segment shaped plates arranged in spaced relation and embedded in said tread portion, said set of plates arranged in a concentric row an inner set of segment shaped plates arranged in spaced relation and embedded in said tread portion inwardly with respect to and spaced from the plates of the outer set of plates, said inner set of plates arranged in a concentric row the plates of the outer set overlapping the plates of the inner set, transverse rows of studs carried by said plates and flush with the periphery of the said tread portion, the outer transverse rows of studs carried by the inner plates extending through the ends of the outer plates and coupling the two sets of plates together.

1,348,872. FIRE-ESCAPE OR LIFE-SAVING TOWER. GREGOR GULICH, New York, N. Y. Filed July 21, 1919. Serial No. 312,287. 1 Claim. (Cl. 227—20.)



A portable fire-escape comprising a truck, a tower thereon made of a plurality of box-shaped sections, each section being provided with a bottom but open at its upper end, one section of said tower being fixed to said truck and

the others being adapted to telescope into said fixed section, means for raising said movable sections in succession in relation to said stationary section, each of said bottoms but that of the outer-most section being provided with an opening, said openings being in alinement, a ladder secured to each movable section but the outer-most section, said ladders being fixed to the respective bottoms of said sections and slanting from the top of the respective section to its bottom in alinement with the opening in the bottom of the next section, said ladders being of different widths and staggered in relation to each other, thereby permitting the same to be nested when said tower is telescoped.

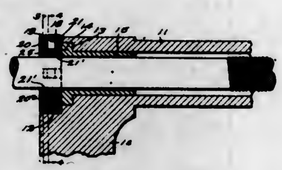
1,348,873. MANUFACTURE OF CONCENTRATED NITRIC ACID. PHILIPPE AUGUSTE GUYE, Geneva, Switzerland, assignor to Ferdinand Gros & Bouchardy, Paris, France, a Firm. Filed May 9, 1918. Serial No. 233,567. 4 Claims. (Cl. 23—1.)

1. A process for the manufacture of concentrated nitric acid by causing an aqueous solution of nitric acid to react with nitric anhydrid at the moment of its formation, formed in immediate proximity to the solution by the reaction between nitric peroxid and ozone.

1,348,874. MANUFACTURE OF NITRIC ANHYDRID. PHILIPPE AUGUSTE GUYE, Geneva, Switzerland, assignor to Ferdinand Gros & Bouchardy, Paris, France, a Firm. Filed May 9, 1918. Serial No. 233,568. 4 Claims. (Cl. 23—1.)

1. A process for making continuously nitric anhydrid N_2O_5, by the reaction of ozone on an oxid of nitrogen of a degree of oxidation lower than N_2O_5 and higher than N_2O, wherein two gaseous currents, one containing at least one of the said oxids of nitrogen, the other containing ozone, are caused to react in such proportion to each other that there is present an excess neither of ozone nor of oxid of nitrogen, the nitric anhydrid which is formed being recovered from the gaseous current at a temperature below —20° C.

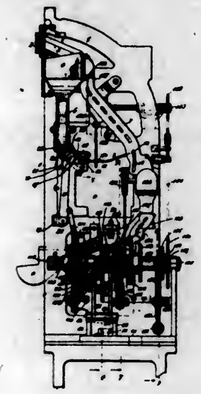
1,348,875. MICROMETER. JAMES E. HASTINGS, Athol, Mass. Filed July 11, 1919. Serial No. 310,232. 10 Claims. (Cl. 33—164.)



1. In a micrometer gage, the combination with a spindle casing having the usual bore, of posts carried by the casing and arranged upon opposite sides of said bore, an eccentric washer having an extension provided with a high point mounted intermediate said posts, a ring having an annular groove therein arranged about said posts, the extension of said eccentric washer engaging in the groove of said ring when the bore of said washer is alined with the bore of said spindle casing.

1,348,876. COIN-CONTROLLED VENDING-MACHINE. CLARENCE W. HOBBS and EUGENE A. COPELAND, Worcester, Mass., assignors to Hobbs Manufacturing Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 22, 1916. Serial No. 105,274. 22 Claims. (Cl. 194—10.)

1. In a coin-controlled vending machine, the combination comprising a delivery-actuating means, a power-operated means for operating said delivery-actuating means, means whereby said power-operated means may be connected to said delivery-actuating means for operating the same under conditions governed by a coin of a determinate



character, said last-named means including a coin detector, and means for actuating said coin detector to function by said power-operated means.

1,348,877. TRACTION-ENGINE. EPHRAIM M. HOLMES, Minneapolis, Minn., assignor to Daniel E. French, Stuart, Fla. Filed Feb. 23, 1918. Serial No. 218,711. 2 Claims. (Cl. 180—14.)

1. A traction engine comprising a wheel supported frame having drive wheels at the front and steering wheels at the rear thereof, an arched axle connecting said steering wheels, a pivotal connection between said axle and said frame, and a removable bar connecting the ends of said axle.

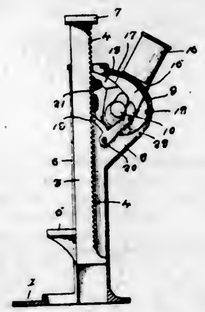
1,348,878. HINGED BOX. FRANK S. HYATT, Brooklyn, N. Y. Filed Apr. 6, 1920. Serial No. 371,636. 4 Claims. (Cl. 220—31.)



1. A box having curved walls and comprising a body and a cover, a bead around the periphery of the body, a bead around the periphery of the cover, said beads forming the continuous curved shape of the box, a flat wall on one side of the box between said beads and a hinge disposed in said flat wall.

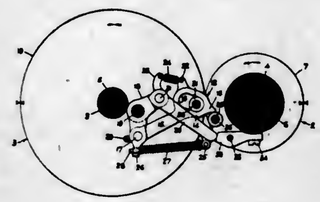
2. An oval box comprising a body and a cover, beads around the body and cover maintaining a continuous oval contour to the box, a flat wall on the long side of the box between said beads and a hinge formed on the flat wall.

1,348,879. JACK. RONALD B. JESTER, New Cumberland, W. Va. Filed Aug. 25, 1919. Serial No. 319,543. 12 Claims. (Cl. 254—111.)



1. In a jack, a lifting bar, an operating shaft adjustable into either one of two operative positions, and means associated with said shaft and controlled by the adjustment thereof for raising the bar when the shaft is in one position and lowering the bar when said shaft is in its other position.

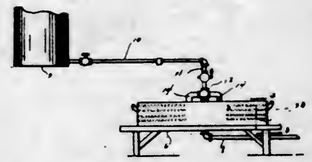
1,348,880. MECHANICAL MOVEMENT. JOHN HETTRICH, Lincoln, Nebr. Filed Sept. 8, 1919. Serial No. 322,329. 2 Claims. (Cl. 74—14.)



1. A mechanical movement comprising a spool keyed on a driving shaft, and carrying a driving-pin and a contact block, a spool keyed on a countershaft, a reciprocable wedge seated in the last-mentioned spool and adapted to engage the driving-pin, and a push-bar carried by the same spool in operative connection with the wedge, and adapted to engage the contact block.

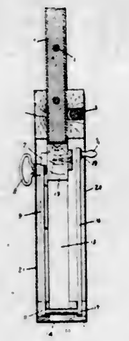
1,348,881. DEVICE FOR WASHING PHOTOS. ELISEE EUGENE KLEINE, Rosthern, Saskatchewan, Canada. Filed Sept. 18, 1919. Serial No. 324,478. 1 Claim. (Cl. 95—98.)

A washing device for photographic productions or the like consisting of a wash container adapted to be suitably positioned on a table, an outlet preferably formed centrally in the bottom of said wash container, a flow pipe from said outlet, feed pipe and controlling means on said feed pipe, the free end of said feed pipe being provided with a T-head, spreaders connected to said T-head,



said spreaders each having a closed lower end and small openings adapted to spread water in all directions when forced through the same, a float mounted between said spreaders, and a plunger frictionally held in said float in a predetermined position and having a stopper at its lower end adapted to close said outlet in said wash container.

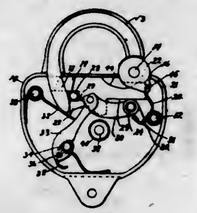
1,348,882. AUTOMOBILE-DOOR LATCH. FREDERICK KLEINSMITH, Indianapolis, Ind. Original application filed May 17, 1918, Serial No. 235,121. Divided and this application filed Nov. 24, 1919. Serial No. 340,150. 4 Claims. (Cl. 296—44.)



4. An extensible automobile door having a hollow body, a member movable vertically therein and adapted to be extended above said body, a latch, an operating handle for said latch having a rocking shaft located below the space adapted to be occupied by the movable part when in lowered position, a latch connecting lever fixed on said shaft on one side of said space, and an operating lever fixed on said shaft on the opposite side of said space.

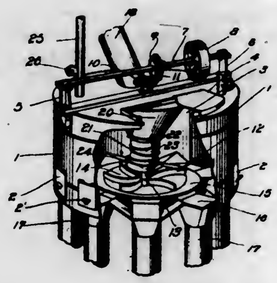
1,348,883. [WITHDRAWN.]

1,348,884. PADLOCK. NELS KAOHN, Chicago, Ill., assignor to The Adams & Westlake Company, a Corporation of Illinois. Filed May 17, 1919. Serial No. 297,751. 16 Claims. (Cl. 70—105.)



3. In a padlock, in combination, an oscillating shackle, a reciprocating spring-advanced bolt for securing the shackle, spring advanced and key retracted means movable transversely to the path of the bolt for holding the bolt in advanced position, any key-releasable means carried by the last-named means for securing the same in engagement with the bolt.

1,348,885. PROPORTIONAL DISTRIBUTER. JAMES F. LAFFOON, Kansas City, Mo. Filed Oct. 12, 1918. Serial No. 257,909. 3 Claims. (Cl. 83—44.)



1. A distributer for finely divided material comprising a circular table, a spout having a concentric discharge opening adapted to be adjusted eccentrically to direct the material onto the circular table, means for evenly distributing the material to the periphery of the table, and material-receiving devices about the periphery of the table and having inlet openings below the same.

1,348,886. SPARK-PLUG. OSCAR M. LEICH, Genoa, Ill., assignor to Leich Electric Company, Genoa, Ill., a Corporation of Illinois. Filed Mar. 19, 1919. Serial No. 283,566. 6 Claims. (Cl. 123—169.)



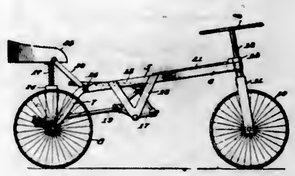
1. A spark plug of the character described having main electrodes and an auxiliary electrode, a mental sleeve carrying one of said main electrodes, a porcelain mounting for the other of said main electrodes, and insulating means carrying said auxiliary electrode fixedly carried by said metal sleeve independently of said porcelain mounting.

1,348,887. WEEDING-HARROW. JOHN MCKEAG, Hamlin, Alberta, Canada. Filed Feb. 12, 1919. Serial No. 276,614. 1 Claim. (Cl. 55—84.)



A weeding harrow comprising a pair of sections, each section including spaced parallel bars, transversely disposed arcuate shaped tooth elements secured to the underside of said bars, a handle connected with the center bar of ach section, an arcuate shaped end member for each section, a U-shaped member connecting said end member and central bar of each section, and flexible elements terminally connected with the U-shaped members, whereby said sections are adaped for independent movement.

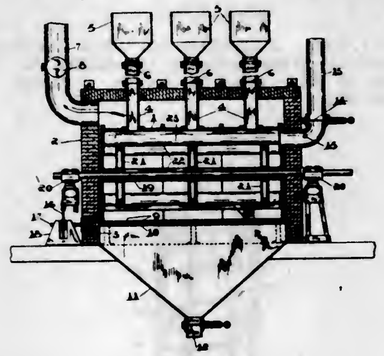
1,348,888. OCCUPANT-PROPELLED VEHICLE. JACOB P. METZLER, Geneva, N. Y. Filed Apr. 24, 1919. Serial No. 292,426. 3 Claims. (Cl. 208—33.)



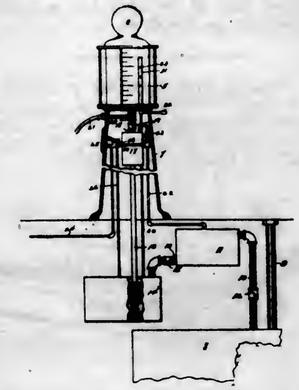
1. An occupant propelled car comprising a frame formed of a single continuous bar strip, said strip providing side body portions having rearward and downward extensions providing journal bearings, and the front portion of the strip providing a steering head, tractor wheels journaled in said journal bearings, a steering wheel mounted in the steering head, and a treadle journaled in said side portions and located substantially in the plane of the body portions of the frame for propelling the car through the weight of the occupant thereon.

1,348,889. PROCESS AND APPARATUS FOR THE REDUCTION OF METALLIC OXID ORES. JAMES WILLIAM MOFFAT, Toronto, Ontario, Canada. Filed Aug. 15, 1919. Serial No. 317,759. 13 Claims. (Cl. 263—25.)

1. A furnace for the reduction of metallic oxid ores comprising a stationary horisontal cylindrical reduction chamber; charge feeding means located at the top of the reduction chamber provided with a substantially air tight gate; a discharge outlet located at the bottom of the reduction chamber and provided with a substantially air tight gate; means moving in closed orbits adapted to lift and re-lift the charge from the bottom of the furnace without endwise movement in the furnace, and drop it again from the upper part of the furnace.



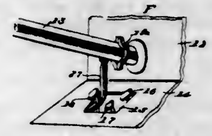
1,348,890. DISPENSING APPARATUS. HOWARD M. NICHOLSON, GEORGE B. NICHOLSON, and ARTHUR D. NICHOLSON, Pittsburgh, Pa. Filed Oct. 21, 1919. Serial No. 332,189. 5 Claims. (Cl. 221—100.)



4. In a device of the character described the combination with an elevated dispensing receptacle, of a storage tank, a first suction tank, a connection leading from the storage tank to the first suction tank, a supply tank below the first suction tank, a connection leading from the suction tank to the supply tank, means for alternately supplying air under pressure to and venting the supply tank, a connection leading from the supply tank to the dispensing receptacle, means effected by the rise and fall of liquid in the said connection for creating a vacuum in the first suction tank and means for venting said first suction tank to permit the liquid therein to flow by gravity into the supply tank.

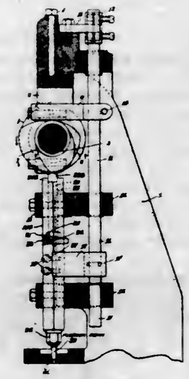
1,348,891. LOCK FOR AUTOMOBILES. CHARLES WILLIAM NIXON, New Orleans, La. Filed July 23, 1919. Serial No. 312,695. 2 Claims. (Cl. 70—128.)

2. In combination, a steering post, a sectional ring embracing the steering post, a yoke, a collar movably connected to the yoke, said ring being movably connected to said collar, a pedal, a pair of gripping arms pivotally connected to said yoke and adapted to embrace said pedal,



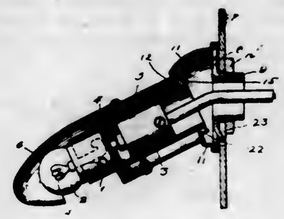
means for wiasing the arms out of engagement with said pedal, and means carried by the arms for locking the same in embracing position.

1,348,892. EYELET-MACHINE. WILLIAM D. PIERSON, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 17, 1919. Serial No. 311,513. 8 Claims. (Cl. 74—1.)



1. In a machine of the character described, the combination with the operating pushdown cam, the plunger for carrying the working tool, and the bumper having a shank engaging in a longitudinal hole in the plunger and having a head diametrically larger than its shank and projecting beyond the plunger to be engaged on its projecting end by said cam; of means for relatively adjusting the plunger and bumper longitudinally, said bumper head being T-shaped and said plunger having a slot across its top in a direction across the working face of said cam; said slot being dimensioned to receive said T-head and having a depth greater than the possible relative adjustment of plunger and bumper, all whereby the T-head will be supported by the walls of said slot against the bending action on it by said cam at any and all adjustments of the plunger and bumper.

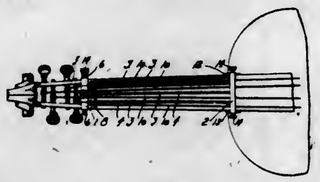
1,348,893. DASHBOARD LAMP-SOCKET. EDWARD S. PRESTON, Chicago, Ill. Filed May 11, 1918. Serial No. 233,868. 8 Claims. (Cl. 240—7.)



8. In a lamp socket mounting, a collar having means for connection to a support at one end and having its

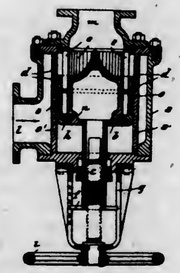
other end provided with an abutment, a shell engaged at one end with the said other end of the collar, a casing having one end engaged with said abutment, means to adjust the shell relative to said collar, and a connection between the shell and casing whereby upon adjustment of the shell the casing will be tightly impinged against abutment.

1,348,894. FINGER-BOARD FOR VIOLINS. RUDOLF GOTTFRID NILSON RAHNE, Gottenborg, Sweden. Filed Jan. 2, 1919. Serial No. 269,329. 3 Claims. (Cl. 84—87.)



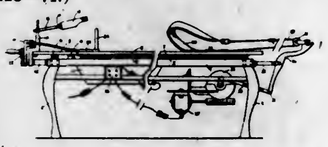
3. A finger guide for violins comprising a plurality of tangibly marked ribbons applied to the finger board of the violin alongside the strings thereof and having the ends bent angularly, clamping members attached to the finger-board near the ends of the ribbons, each including a stationary member and a movable member, the bent ends of the ribbons being arranged between the stationary and movable parts of the clamping members and set screws for forcing the movable clamping members toward the bent ends of the ribbons so as to hold the bent ends of the ribbons against the stationary members of the clamping members, substantially as described and for the purpose set forth.

1,348,895. DEVICE FOR SUPERHEATING STEAM. GIUSEPPE RESTUCCI, Naples, Italy. Filed Sept. 28, 1918. Serial No. 256,031. 7 Claims. (Cl. 122—459.)



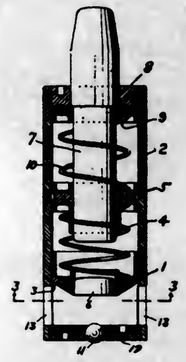
1. A device for superheating steam comprising expanding nozzles, means for supplying heat to the steam while expanding, and blades arranged to impart centrifugal action to the expanded steam.

1,348,896. ANATOMICAL DEVELOPING AND ADJUSTING MACHINE. DANIEL W. RIESLAND, Duluth, Minn. Filed Dec. 16, 1919. Serial No. 345,435. 4 Claims. (Cl. 128—71.)



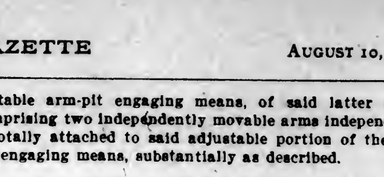
2. The combination with a table of the character described including stationary head-holding means and adjustable arm-pit engaging means, of said latter means comprising two independently movable arms independently pivotally attached to said adjustable portion of the arm-pit engaging means, substantially as described.

1,348,897. PORTABLE BRINNELL HARDNESS-TESTER. ALBERT RINGLAND, Philadelphia, Pa. Filed July 28, 1919. Serial No. 313,765. 4 Claims. (Cl. 265—12.)



1. A portable Brinnell hardness tester provided with a recoil absorbing anvil in combination with a plunger adapted to strike the anvil and with a ball adapted to receive the transmitted blow of the anvil and to transmit said blow, substantially as described.

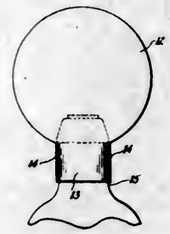
1,348,898. MEANS FOR MAKING PLASTER-BOARD. ORVILLE L. ROUTT, Los Angeles, Calif., assignor to Plastoid Products, Incorporated, Los Angeles, Calif., a Corporation of California. Filed June 30, 1919. Serial No. 309,223. 7 Claims. (Cl. 154—1.)



5. Means for forming plaster board having spaced parallel channels therein comprising a base member having spaced longitudinal portions to serve as bearing members, and adapted to support paper folded longitudinally with its folds spaced to correspond with said longitudinal portions of said base member, whereby said folded paper overlies said portions and also has folded portions between said longitudinal base portions, and means moving longitudinally over and upon said base portion and folded paper for pressing plastic material into the folds of said paper longitudinally theerof.

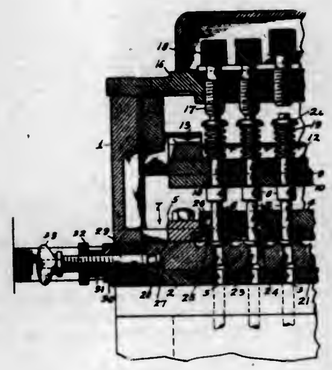
1,348,899. ADVERTISING DISPLAY DEVICE. FRED W. SARGENT, Brockton, Mass., assignor to Tolman Print, Incorporated, Brockton, Mass., a Corporation of Massachusetts. Filed Nov. 24, 1919. Serial No. 340,083. 1 Claim. (Cl. 40—4.)

As an advertising display device, a normally flat body of sheet material having a display portion and a wing, said wing including a central portion joined to, and projecting from one edge of the display portion, and end portions projecting oppositely from said central portion, and adapted to be bent and connected to form, with said central portion, a tubular sleeve, adapted to surround a bottle neck, the display portion being formed to project wholly from one edge of said sleeve, and to stand beside and project in a substantially vertical plane above the neck to



which the sleeve is applied, so that advertising matter may be conspicuously displayed in a vertical plane, in space above a bottle on exhibition, the display portion being wider above the ring than at its junction with the wing, so that the display portion is not flexed by the operation of bending the wing to form a sleeve.

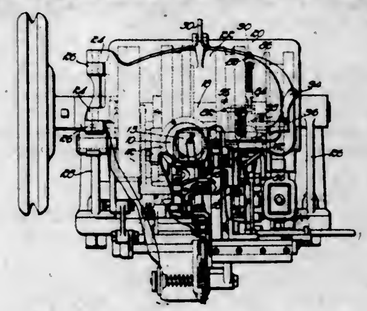
1,348,900. INKING MECHANISM. LOUIS A. SCHMIDT, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Oct. 11, 1919. Serial No. 330,086. 16 Claims. (Cl. 101—365.)



1. In an inking mechanism, the combination of a plurality of separate ink delivery conduits, for delivering an independent supply of ink for different columns or sections of the form, a plurality of pumps, one for supplying each conduit with ink, and means whereby the supply of ink from the pumps to certain of the conduits may be simultaneously varied without affecting the supply to other conduits.

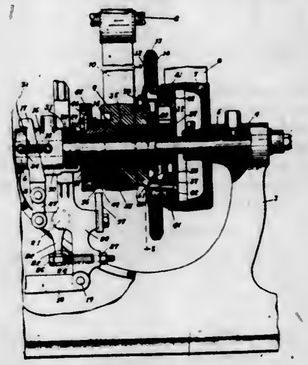
1,348,901. SEWING-MACHINE. THOMAS H. SEELY, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 25, 1916. Serial No. 122,002. 7 Claims. (Cl. 112—60.)

1. A two-thread sewing-machine having, in combination with sewing-instrumentalities including a holder, for locking-thread, accessible at the front of the machine: a cover, for inclosing forward parts of the machine; and a



retainer for said holder united with said cover so as to cooperate with the holder when the cover is in operative position.

1,348,902. SPEED-CHANGING MECHANISM. THOMAS H. SEELY, Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 28, 1916. Serial No. 139,378. 21 Claims. (Cl. 74—35.)



1. A speed changing mechanism having a driving member, a driven member, a clutch between said driving and driven members, manual means movable to operate the clutch to cause the driven member to be driven from the driving member at the same speed, and connections between the clutch and the driven member to drive the driven member at another speed, said connections being normally inoperative and constructed and arranged to be rendered operative by further movement of the manual means in the same direction.

1,348,903. STEEL-TREATMENT-TRANSFERRING SYSTEM AND APPARATUS THEREFOR. DAVID J. SIMPSON, Chicago, Ill., assignor to Noah Steiner Amstutz, Valparaiso, Ind. Filed Apr. 5, 1915, Serial No. 19,312. Renewed Dec. 29, 1919. Serial No. 348,051. 6 Claims. (Cl. 214—18.)



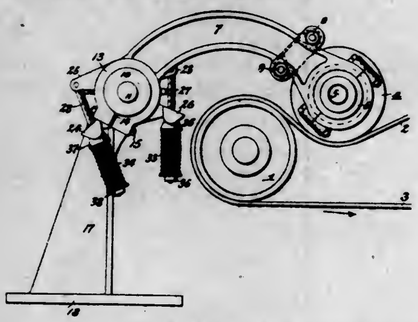
1. A furnace, closable openings at both ends, storage supports at one end, transferring tracks at the other end,

removable rails adapted to be inserted and withdrawn from the furnace, and means for automtically guiding the entering end of such rails through the furnace and into alinement with the transfer tracks.

1,348,904. PAINT. DAVID C. SMITH, Schenectady, N. Y. Filed Jan. 28, 1920. Serial No. 354,653. 5 Claims. (Cl. 134—46.)

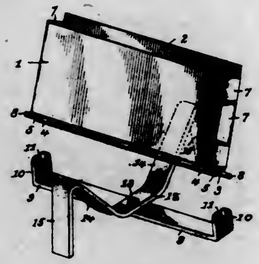
1. A paint adapted for use at high temperature comprising magnesia, whiting, water and a water-soluble glue binder.

1,348,905. AUTOMATIC BELT-TIGHTENER. HARRY J. SMITH, Lakewood, Ohio. Filed Oct. 21, 1918. Serial No. 259,108. 11 Claims. (Cl. 64—5.)



1. A belt tightener comprising a rock arm, a pulley mounted on said arm and adapted to engage a belt, a rotatable drum upon which said arm is mounted and upon which said arm is adjustable circumferentially, and a spring operatively associated with said drum and a fixed part and adapted to turn said arm in a direction for pressing said pulley against said belt.

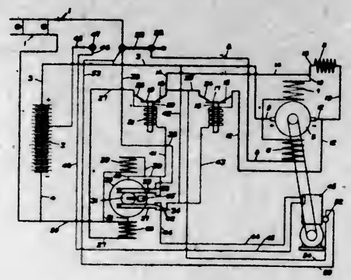
1,348,906. LOOSE-FILE-CARD HOLDER. SWANTE J. P. SWALLENDER, Chicago, Ill. Filed Oct. 24, 1919. Serial No. 332,921. 4 Claims. (Cl. 129—16.)



1. In a loose file card holder, the combination of a pair of cover plates, each formed with interengaging stop flanges at its respective sides and with longitudinal bottom web or flange having at its end a pivot eye, a pivot rod engaging the pivot eyes of the bottom flanges aforesaid, and supporting studs associated with the cover plates adjacent to their point of pivotal connection, substantially as set forth.

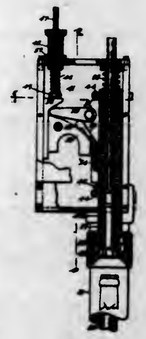
1,348,907. ELECTRIC POWER SYSTEM. IRA T. SWARTZ, Indianapolis, Ind., assignor to Swartz Electric Company, Indianapolis, Ind., a Corporation of Indiana. Filed June 23, 1917. Serial No. 176,643. 12 Claims. (Cl. 290—35.)

3. In an electric power system, in combination with a storage battery, a dynamo electric machine, a prime mover, a single switch having rotatable armature and shunt and differential series windings for controlling the ignition



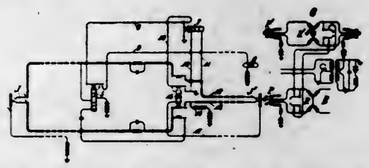
and motor circuits, means to manually close the switch and means to prevent flow of current through the switch when the dynamo electric machine is out of operation.

1,348,908. BOTTLE-CAPPING APPARATUS. SAMUEL W. TAYLOR, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, a Corporation of Maryland. Filed July 31, 1917. Serial No. 183,682. 6 Claims. (Cl. 226—84.)



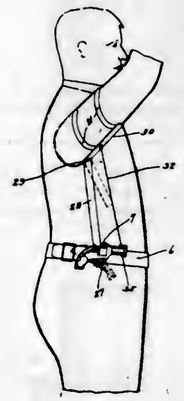
1. In a bottle-capping apparatus, the combination, with a capping head and a bottle support having relative movement, of a capping throat device carried by the capping head and movable relative thereto, and a yielding resistance device for retaining the capping throat device in fixed relation to the capping head within a predetermined limit of pressure and for giving a decreased resistance after the initial movement of the throat device relative to the capping head.

1,348,909. TELEPHONE TOLL-CIRCUITS. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 20, 1919. Serial No. 278,174. 7 Claims. (Cl. 179—41.)



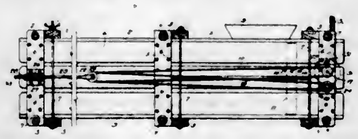
1. In a telephone system, a toll trunk, talking conductors for said trunk, a cord circuit for answering calls incoming over said trunk, a second cord circuit for completing local connections, and means including a relay bridged across the talking conductors of said trunk whereby a talking connection may be established with said first mentioned cord circuit only.

1,348,910. FIREARM. SAMUEL VLANCH, Sioux City, Iowa. Filed Mar. 26, 1920. Serial No. 368,933. 7 Claims. (Cl. 42—94.)



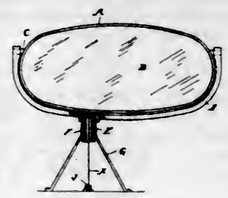
4. A device of the class described comprising a base plate adapted to be secured to a person's body, a revolver support pivoted on the plate to swing upwardly and downwardly, an element on the plate to engage and operate the revolver trigger when the support is swung upwardly, and means for swinging the support upwardly including a tractile member secured to the support and adapted to be secured to a person's limb.

1,348,911. HAY-PRESS. JOHN L. WALLIS, Andalusia, Ala., assignor to William C. Fritter, Dothan, Ala.; Nellie E. Fritter administratrix of said William C. Fritter, deceased. Filed June 14, 1919. Serial No. 304,101. 4 Claims. (Cl. 100—12.)



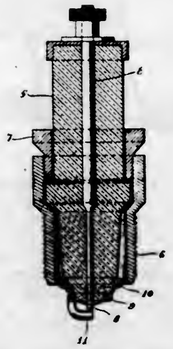
1. A baling press having a chamber formed therein, a compressing member adapted to move within the said chamber, a cable having each end thereof attached to the said compressing member, a series of oppositely arranged pulleys over which the said cable passes, means including screw-threaded rods for longitudinally adjusting some of said pulleys, and means for imparting rotary movement to another of said pulleys for moving the compressing member in the chamber.

1,348,912. BOAT-SAIL. WILLIS C. WARD, Orchard Lake, Mich. Filed Dec. 5, 1919. Serial No. 342,576. 7 Claims. (Cl. 114—103.)



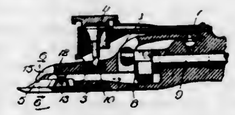
1. A boat sail comprising a sheet of rigid material, and an adjustable frame in which said sheet is mounted.

1,348,913. SPARK-PLUG. SAMUEL P. WELCH, Atlantic City, N. J., assignor to Ojus Spark Plug Works, Atlantic City, N. J., a Partnership composed of John Burt and Samuel P. Welch. Filed July 12, 1919. Serial No. 310,514. 2 Claims. (Cl. 123—169.)



1. A spark plug comprising an insulating core, a metallic shell carrying the core, a main electrode rod carried by the core, and a pair of conductor rings carried by the core and spaced to produce a spark gap between said rings, one of the rings having a laterally projecting electrode which is so positioned with respect to the terminal of the main electrode rod as to produce a spark gap between said electrode and the rod and said laterally projecting electrode being pliable to permit bending into contact with the main electrode rod, and the other ring being spaced from the shell to produce a spark gap between said ring and the shell.

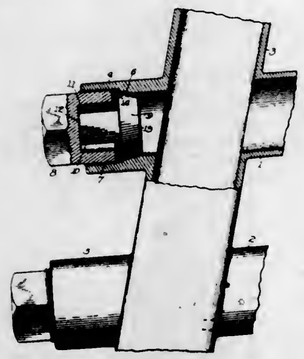
1,348,914. SHEEP-SHEARS. FRANK N. L. WILLETT, Aurora, Ill. Filed Sept. 19, 1919. Serial No. 324,751. 1 Claim. (Cl. 30—1.)



In a sheep shearing machine having a stationary and a vibrating cutter and an operating arm for oscillating the vibrating cutter, said vibrating cutter being provided with a plurality of teeth each having outwardly and downwardly flaring side walls, and also provided with openings at each end, a pair of pins carried by said operating arm and adapted to seat in the openings in said

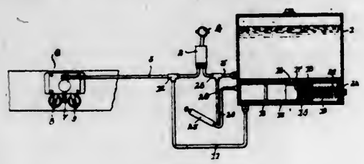
vibrating cutter and thereby connect said arm with said cutter, and a plurality of presser and operating fingers loosely mounted in pairs on said operating arm, each presser finger having means on its outer ends adapted to engage the flaring sides of a cutter tooth and thereby prevent transverse and vertical movement.

1,348,915. REMOVABLE PLUG FOR BOILERS AND THE LIKE. WILLIAM H. WINSLOW, Chicago, Ill., assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill., a Corporation of Illinois. Filed July 26, 1915. Serial No. 41,812. 14 Claims. (Cl. 220—39.)



1. In combination a hollow boss having an internally threaded portion and a conical seat adjacent said threaded portion, an internal conical plug in said seat, guiding means on the rear of said conical plug for guiding the same upon said conical seat, a screw-plug engaging said conical plug and clamping the same against said seat, the lateral walls of the boss being imperforate.

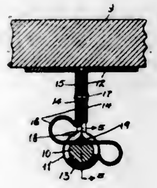
1,348,916. FUEL-FEED SYSTEM. WILLIAM H. WINSLOW, River Forest, Ill., assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill., a Corporation of Illinois. Filed July 14, 1919. Serial No. 310,778. 10 Claims. (Cl. 158—36.)



1. In a fuel feed system, a supply tank, a delivery pipe, pumping means for pumping fuel from said supply tank to said delivery pipe, an elastic reservoir having connection with said pumping means, said elastic reservoir comprising a movable member having positions corresponding to the maximum and minimum capacities of said reservoir, and means actuated by said movable member only when in its position of maximum capacity for by-passing the fuel from said reservoir to said tank.

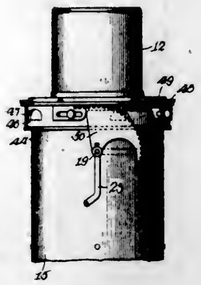
1,348,917. FASTENING DEVICE FOR VEHICLE-TOPS. HENRY T. WITTICH, Ashtabula, Ohio. Filed Aug. 31, 1918. Serial No. 252,256. 4 Claims. (Cl. 279—79.)

1. In a device of the character described, the combination of a stud, a bracket consisting of a unitary sheet-metal stamping bent upon itself and forming an opening at its outer end adapted to fit over such stud; and a



spring secured at one end between the parts of such stamping and bent to normally intersect such opening.

1,348,918. FUEL-SAVING APPARATUS. MICHAEL WOLFE, Chicago, Ill., assignor, by mesne assignments, to Wolff Coal Saver Company, a Corporation of Delaware. Filed Nov. 29, 1916. Serial No. 134,027. 1 Claim. (Cl. 110—58.)

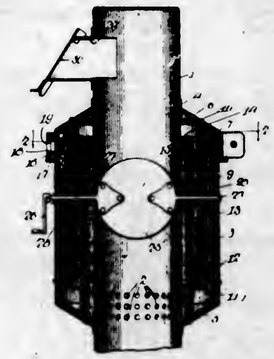


In combination, a flue member having openings therein; a casing encircling the flue member and inclosing said openings, there being perforations in said casing opening into the outside atmosphere; a tubular member having perforations therein coöperating with the perforations of said casing, the tubular member being mounted for rotation upon the casing and adapted to regulate the flow of air through the perforations in said casing; a damper spindle mounted in the flue member and said casing; a damper on the damper spindle in the said flue member; gear teeth on the tubular member; and a gear fixed on the damper spindle meshing with the gear teeth and adapted to rotate said tubular member on said casing upon rotation of the damper spindle and damper.

1,348,919. FUEL-SAVER. CHARLES WOLFF, Chicago, Ill., assignor, by mesne assignments, to Wolff Coal Saver Company, a Corporation of Delaware. Filed Mar. 28, 1917. Serial No. 157,870. 1 Claim. (Cl. 110—58.)

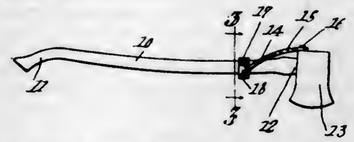
In combination, a flue having openings therein spaced around the periphery thereof, a casing surrounding said flue to form an air preheating chamber and having openings therethrough spaced around the periphery thereof, means for varying the size of said openings through said casing to regulate the amount of air permitted to pass into said preheating chamber, means for fixing said regulating means in adjusted positions, a damper within said flue above said openings for admitting air to said flue, said damper being operable to regulate the size of the passage through said flue independently of the regulation of the openings for admitting air into said preheating chamber, and a plurality of baffle walls within said preheating

chamber arranged with the opposite ends of alternating walls spaced from the ends of said chamber so that air



entering said chamber must pass substantially the entire length thereof a plurality of times before entering said flue.

1,348,920. AX. JOHN H. YOUNG, Bartlesville, Okla. Filed Mar. 5, 1920. Serial No. 363,434. 4 Claims. (Cl. 145—2.)



1. An ax comprising a head, a handle having a curved portion adjacent to the helve thereof extending away from the edge of the head, a brace detachably connected to the head and extending toward the handle, and a clamp mounted on the handle and connected to the brace.

2. The combination with an ax comprising a head having a handle and curved adjacent to the head toward the rear face thereof; of a brace between the handle and the head at the side opposite to the cutting edge.

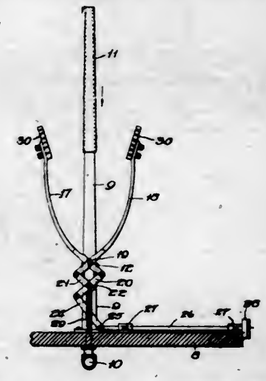
1,348,921. TOY DEVICE. ISIDOR ZION, Ridgefield, N. J. Filed Aug. 15, 1919. Serial No. 317,660. 3 Claims. (Cl. 46—40.)



2. A toy device of the class described comprising a frame, a disk rotatably mounted on and spaced from one side of said frame, said side of the frame being provided with a plurality of spaced and radially arranged projecting members, a plurality of figure devices detachably and movably connected with said disk, cam-shaped shoe members on said devices adapted to operate in connection with said projecting members to give said devices a rotary oscillatory movement and a member on the other side of said frame and in operative connection with said disk for rotating said disk to move said figure devices over said projecting members.

1,348,922. STOCKING-HOLDING DEVICE. FREDERICK J. ASH, Phoenixville, Pa. Filed July 21, 1919. Serial No. 312,112. 4 Claims. (Cl. 223—17.)

1. A device of the character described including a stocking form; two arms pivotally connected together between their ends; two links directly pivoted together and respectively pivoted to adjacent ends of said arms; means for moving said links together and apart on their pivots whereby said arms are moved on their pivots to move their



opposite ends toward and from opposite faces of said form; and means for guiding the pivotal connections of said arms to control the movement of said links; substantially as described.

1,348,923. PLANE. CYRUS BAILEY, Western Springs, Ill. Filed Mar. 12, 1919. Serial No. 282,140. 10 Claims. (Cl. 145—5.)

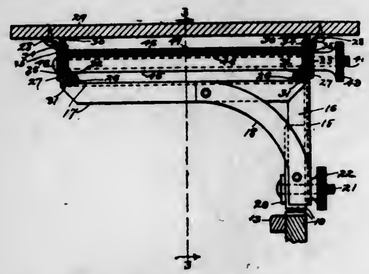


1. A plane comprising a body, a blade holder pivoted on said body and provided with a rearwardly extending rigid bottom portion overlying the body in rear of said pivot, a blade adjustably mounted on said holder in front of said pivot, so that the cutting edge of the blade will be raised and lowered by up and down tilting motion of said rigid bottom portion of the holder, and a handle adapted for operating the plane and connected at its lower end to said rearwardly extending portion for tilting said holder about its pivot to raise the blade when the plane is pulled backward and to lower the blade when the plane is pushed forward, the handle thereby having rearward and downward movement to lift the blade, and forward and upward movement to lower the blade.

1,348,924. TABLE ATTACHMENT FOR SEATS. FRANK S. BASKIN, Cleveland Heights, Ohio. Filed Dec. 22, 1919. Serial No. 346,667. 7 Claims. (Cl. 155—128.)

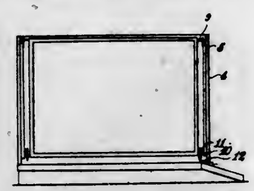
1. The combination, with a seat, a standard at the forward end and one side of and rigid with the seat, and a vertically adjustable bracket supported from and extending above the standard and having two spaced laterally extending substantially parallel arms at the upper end of the bracket in one and the same horizontal plane, of two laterally opposite parallel guide-bars arranged over opposite ends respectively of and rigid with said arms, two outer bars arranged at the outer side and extending endwise of opposite guide-bars respectively, a table mounted

on and secured to said outer bars, two slide-bars arranged at the inner side of and slidable endwise of and supported from opposite guide-bars respectively, the forward portion and rear portion of each slide-bar having respectively a horizontal top edge and an inclined top edge which ex-



tends upwardly toward said horizontal edge, the aforesaid outer bars being pivoted to the slide-bars and having their axes coincident, and the table resting on the horizontal top edges or on the inclined top edges of the slide-bars according as the table is in its horizontal or inclined position.

1,348,925. BEEHIVE. DOUGLAS BAXTER, Three Rivers, Quebec, Canada, assignor of one-half to George Henderson, Three Rivers, Canada. Filed Sept. 18, 1919. Serial No. 324,486. 3 Claims. (Cl. 6—2.)

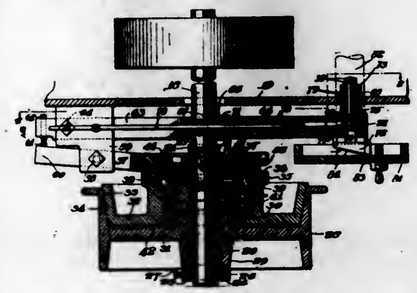


1. A bee hive provided with a suitable rectangular side frame, a suitable top and base for said frame, ends of said frames having a notch cut at the upper inside thereof, a metallic spacer attached to said ends to have a portion thereof extending up from the bottom of said notches formed in the upper side of said metallic spacer, said notches being a sufficient distance apart to space the hereinafter mentioned frames in proper relationship to each other, suitable frames adapted to fit inside of said frame, nails driven into the upper side of each end, said nails being adapted to hang in said notches of said metallic spacer, an angular spacer of V-shaped form, the upper end of said V-shaped form being attached to studs driven into the ends of said frame, notches formed in the lower inside end of said V-shaped portions, nails driven into the lower sides of said frame and extending out from the ends thereof, said nails engaging in said notches.

2. A bee hive consisting of a suitable frame provided with a top and base, frames adapted to be positioned inside of said frame, metallic spacers held at the top of the ends of said frame having suitable notches in spaced relationship to each other, a metallic angular spacer pivotally supported across near the bottom of said ends, each downwardly extending angular portion of last said spacer being provided with a notch on its inner side, said frames being provided with suitable hanger members adapted to engage at its top in the first said notches and at its lower side in second said notches so as to be properly adjusted and spaced apart.

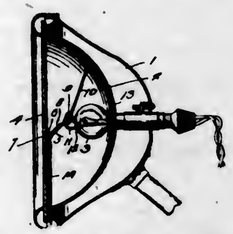
3. A hive having grooves at the top of its ends, upon the inner faces thereof, spacers on the inner sides of said ends, just below said grooves and provided with notches, combined with a comb frame having projecting means to engage in said notches, an angular spacer at the bottom of said ends with V-shaped portions having notches, and means on said frame engaged in said last-named notches.

1,348,926. CLUTCH MECHANISM. LAWRENCE F. BOYD, Chester, Pa. Filed Dec. 19, 1918. Serial No. 267,424. 12 Claims. (Cl. 192—8.)



3. Clutch mechanism of the character described including a driving member; means adapted for engagement with a shaft; a clutch member adapted to engage said driving member; means for compressing said first means to clamp the latter to the shaft; and means for preventing relative rotatable movement between said compressing means and said clutch member, and permitting relative slidable movement between said compressing means and said clutch member; said first means providing a bearing for said driving member; substantially as described.

1,348,927. LIGHT-DEFLECTOR. CARL S. BROWN and RALPH R. SHAFFER, Ashland, Ohio. Filed Dec. 30, 1919. Serial No. 348,372. 3 Claims. (Cl. 240—48.2.)

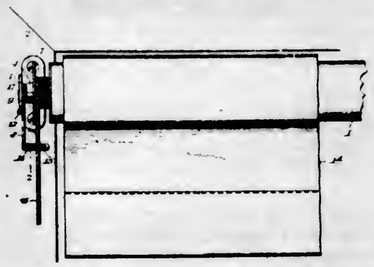


1. In a light deflecting device for headlights, the combination of a metal strip extending horisontally across the face of the front glass, said strip being disposed in a rearwardly slanting position and having an S-shaped folded upper edge portion, a light dimming half-moon strip removably held in a rearwardly slanting position in the aforesaid bent edge portion of the metal strip, and means for securely supporting the device within the headlight.

1,348,928. SHADE-ROLLER-OPERATING MECHANISM. ALLISON B. COLLINS, Denver, Colo. Filed Oct. 27, 1919. Serial No. 333,745. 2 Claims. (Cl. 156—35.)

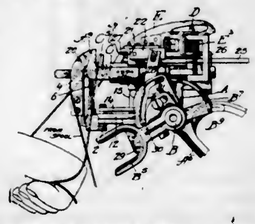
2. In shade roller operating mechanism, the combination with a roller having a shade thereon, of a bearing bracket for one end of said roller, a reel on that end of the roller next the said bracket, and a ratchet wheel thereon, a depending arm pivoted to the bracket on one side of the axis of the roller, having a dog, and a spring for normally holding the dog in engagement with the ratchet wheel, the lower end of said arm being out of vertical line with its pivot and terminating in a slotted horisontal

portion; a cord wound upon said reel in a counter direction to the shade and extending through the slotted portion of the arm, and adapted to be drawn upon to rotate the roller and raise the shade and at the same time, swing the arm and hold the dog out of engagement with the



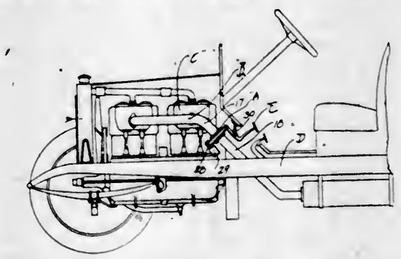
ratchet wheel, the shade being permitted to drop by gravity when the dog is thus held and the cord permitted to slip through the fingers, the arm being rocked by its spring to throw the dog into engagement with the ratchet wheel, when the cord is released, and stops for limiting the movement of said arm.

1,348,929. KNOTTER. HOWARD D. COLMAN, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Oct. 26, 1918. Serial No. 259,766. 7 Claims. (Cl. 289—3.)



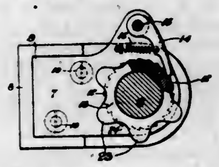
1. A knot-tying mechanism having, in combination, a rotary tying bill; means for supporting a thread extending across the tying bill, said bill being adapted to clamp said thread; means for supporting a thread which is doubled over the other thread; a shear for severing a portion of said other thread; a shear for severing a portion of said doubled thead; means for revolving the tying bill against the doubled thread, the other thread being thereafter caught by the tying bill and clamped; and means for actuating said shears.

1,348,930. AUDIBLE SIGNAL FOR MOTOR-VEHICLES. CHEEVER C. CONLEE, Dayton, Ohio. Filed Dec. 26, 1919. Serial No. 347,282. 12 Claims. (Cl. 116—33.)



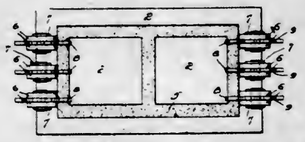
1. In a vehicle road and theft signal, the combination with an exhaust passage of an internal combustion engine, of a casing interposed in the exhaust passage, a slide block carried by the casing, and a signal whistle carried by the block.

1,348,931. RELEASING-CRANK MECHANISM FOR INTERNAL-COMBUSTION ENGINES. ROBERT N. COOK, Aspinwall, Pa. Filed May 24, 1919. Serial No. 299,577. 11 Claims. (Cl. 123—185.)



1. In combination with a power driven shaft subject to sudden reversal, a fixedly attached ratchet wheel, a loosely mounted cam wheel having a controlling ratchet wheel and a pawl therefor, and a crank having a pawl engaging the fixedly attached ratchet wheel and the cam wheel respectively.

1,348,932. MANUFACTURING OF HOLLOW TILE AND THE LIKE. FRANK DOCHNAL, St. Louis, Mo. Filed Oct. 28, 1918. Serial No. 259,921. 1 Claim. (Cl. 25—20.)

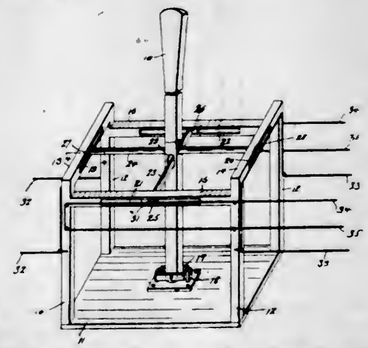


The combination, with a tile forming die, of a rotary perforating and grooving means adapted to be set in motion by the tile leaving the forming die comprising radially extending arms perforating means, radially extending grooving means and a hub arranged on each side of said perforating and grooving means adapted for peripheral contact with the tile leaving the forming die.

1,348,933. PURIFYING MAGNESIUM COMPOUNDS. CLINTON E. DOLBEAR, San Francisco, Calif. Filed Sept. 3, 1919. Serial No. 321,443. 2 Claims. (Cl. 23—13.)

1. The process of purifying magnesium compounds consisting in treating them at an elevated temperature with a solution of an ammonium salt; passing the volatilized gas therefrom into a comparatively cool solution of the magnesium salt formed in a previous similar operation; and separating the precipitated magnesium compound from the solution.

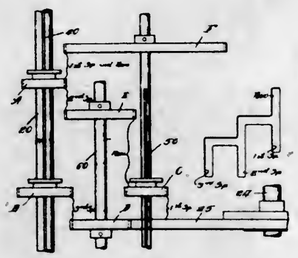
1,348,934. AEROPLANE. JOHN EBERT, Chicago, Ill. Filed Apr. 17, 1920. Serial No. 374,635. 2 Claims. (Cl. 244—29.)



1. A control mechanism for aeroplanes comprising a support, a hand lever fulcrumed to the support to swing

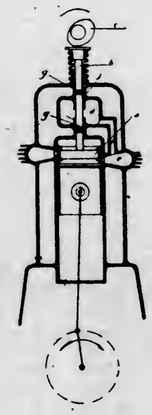
fore and aft and also sidewise, longitudinally slotted cross members in front of and to the rear of the hand lever and also at the sides thereof, slide blocks mounted in the slots of the cross members and having connection with the elements to be actuated, cross arms connecting the fore and aft slide blocks, cross arms connecting the side slide blocks, and an operative connection between the hand lever and the cross arms for independent actuation of the cross arms.

1,348,935. CHANGE-GEAR DEVICE. CONRAD E. FRUDDEN, Chicago, Ill., assignor to Parrett Tractor Company, Chicago, Ill., a Corporation of Delaware. Filed May 24, 1918. Serial No. 236,340. 6 Claims. (Cl. 74—58.)



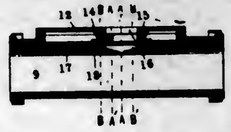
1. In a change-gear device the combination of a driving shaft and a driven shaft carrying a driven gear, a counter-shaft interposed between the driving shaft and the driven shaft, a sliding pinion on the driving shaft, a fixed and a sliding pinion on the counter-shaft, and means for meshing the first sliding pinion with the fixed pinion and for meshing the second sliding pinion with the driven gear at a single operation.

1,348,936. PACKING DEVICE FOR VALVE-RODS OF EXPLOSION-ENGINES. PIERRE LOUIS ALFRED GIAUQUE, Levellois-Perret, France, assignor to Societe Anonyme Des Automobiles & Cycles Peugeot, Paris, France. Filed Aug. 28, 1919. Serial No. 320,355. 5 Claims. (Cl. 123—75.)



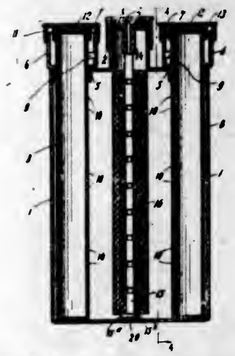
1. The combination of an explosion cylinder, a valve working in said cylinder and having a rod, a guide for said valve rod and means whereby the gases which may escape between the valve rod and the guide are led to the admission conduit of the engine.

1,348,937. ASH-CONVEYER. ALEXANDER GIRTANNER, New York, N. Y. Filed Oct. 24, 1919. Serial No. 332,862. 6 Claims. (Cl. 137—75.)



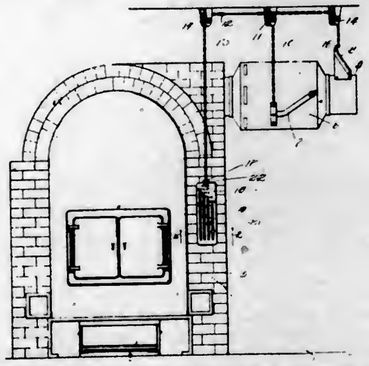
1. In an ash conveyer, the combination with an intake section having an adjustable inlet opening, of a plurality of conduit sections differing in length and coöperating with said intake section to position the inlet section.

1,348,938. COMBINED POCKET-CASE AND STERILIZER FOR SURGICAL INSTRUMENTS. AUGUSTO H. DE GOENAGA, Gobleville, Mich. Filed Dec. 21, 1918. Serial No. 267,785. 2 Claims. (Cl. 167—3.)



1. A pocket case and sterilizer comprising a casing having a sterilizing element disposed therein, bushings mounted in and projecting above the top of said casing, perforated containers inserted into the casing through said bushings and in open communication with the interior of said casing, tongue and groove connections between said bushings and containers, and caps upon said bushings, said caps engaging the tops of said containers to hold them fixed in place.

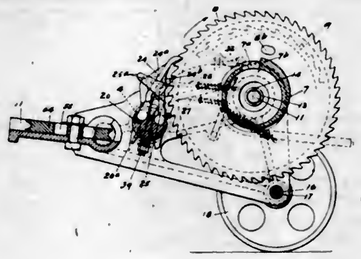
1,348,939. DAMPER-GAGE. HERMAN GOLDBERG, Chicago, Ill., assignor to Wolff Coal Saver Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 24, 1919. Serial No. 340,144. 5 Claims. (Cl. 126—286.)



1. The combination with a furnace draft control means having a control chain, of a gage; and a plurality of

spaced members adjustably mounted on the gage, each member being adapted to engage the chain, one at a time, and hold the draft means in a position of adjustment.

1,348,940. STUMP-PULLER. JOHN F. GORMAN, Portland, Oreg., assignor, by mesne assignments, to A. J. Kirstin Company, Escanaba, Mich., a Corporation of Michigan. Filed May 3, 1916, Serial No. 95,109. Renewed Jan. 17, 1920. Serial No. 352,231. 17 Claims. (Cl. 254—164.)



1. In a device of the character referred to, in combination, supporting means, a drum rotatably mounted therein and provided with an operating gear, a rocker member, a pair of operating pawls pivotally carried by said rocker member and adapted to alternately engage said gear in an operating manner as said rocker member is rocked, means yieldingly moving said pawls away from said gear, and operating connections between said pawls for alternately and positively moving said pawls into holding engagement with said gear, as said rocker member is rocked.

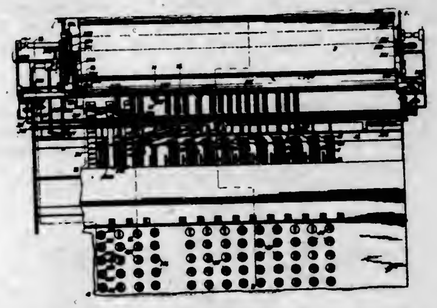
1,348,941. SHOE AND METHOD OF MAKING THE SAME. JAMES A. GREEN, Dolgeville, N. Y., assignor to Daniel Green Felt Shoe Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 10, 1919. Serial No. 343,772. 12 Claims. (Cl. 12—142.)



1. The method of making shoes which consists in securing a padding on the inner side of an outer sole inside the outer edges of said sole, then attaching said outer sole with the thereto secured padding to an upper, all the parts being wrong side out, then securing an inner sole over said padding, then turning the shoe so made right side out, and finally lasting same to form.

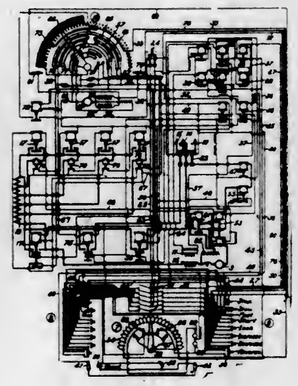
1,348,942. DATING MECHANISM FOR CALCULATING AND LIKE MACHINES. WILLIAM S. GUBELMANN, Buffalo, N. Y. Original application filed Jan. 10, 1900. Serial No. 1,004. Divided and this application filed Sept. 30, 1918. Serial No. 256,263. 26 Claims. (Cl. 235—58.)

3. In a calculating machine, the combination of accumulating mechanism for accumulating items, a platen, printing mechanism for printing on a record sheet supported by said platen the items as accumulated, setting keys for controlling said accumulating and printing mechanisms, a dating mechanism comprising types movable



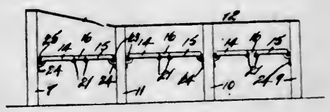
toward said platen for printing dates in conjunction with said items, and setting devices for controlling said dating mechanism.

1,348,943. ELECTRICAL SYSTEM. FLETCHER D. HALLOCK, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 14, 1916. Serial No. 125,637. 39 Claims. (Cl. 273.)



12. The combination with a plurality of rolls for sheet material, separate electric motors for each of said rolls, and an idler roll between each pair of said rolls for maintaining a substantially constant tension upon said material, of means for adjusting the speed of certain of said electric motors in accordance with the positions of the idler rolls, and means controlled by said idler rolls for indicating, at a remote point, the approach of said idler rolls to predetermined positions by reason of abnormal slack in said sheet material.

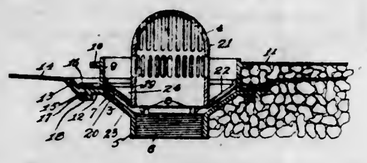
1,348,944. FOLDABLE BED. ELLES E. HARTMAN, New York, N. Y. Filed May 10, 1919. Serial No. 296,147. 3 Claims. (Cl. 5—5.)



1. In a collapsible bed, a plurality of tubular post members having elongated openings in the wall thereof, fold-

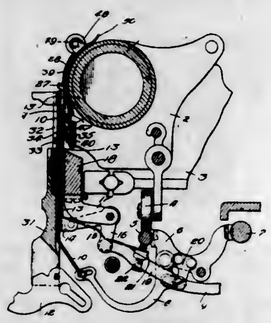
able braces pivotally connected to said posts exteriorly of said openings consisting of a plurality of pivotally connected members, the center members being relatively short, the openings in said posts being arranged to receive the longer of said brace members when the structure is collapsed.

1,348,945. DOUBLE-DRAINAGE ROOF-DRAIN AND SEDIMENT-CUP. JOSEPH HIRSHSTEIN, St. Louis, Mo. Filed Jan. 27, 1916. Serial No. 74,685. 10 Claims. (Cl. 182—10.)



1. In a drain, the combination with means forming a drainage outlet communicating with the surface to be drained, of a removable perforate member in said outlet and extending a substantial distance above the surface to be drained, said member being positioned and dimensioned to provide a sediment receiving opening between it and said surface, and means forming a sediment basin adapted to receive and collect sediment carried to the sediment receiving opening, said sediment basin being removable with the perforate member.

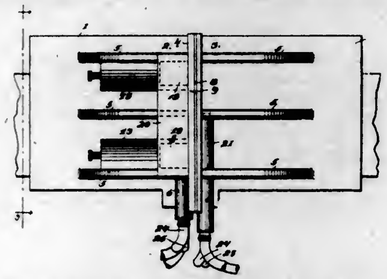
1,348,946. TYPEWRITER. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Apr. 1, 1918. Serial No. 225,949. 16 Claims. (Cl. 199—135.)



1. In a typewriter; a shiftable line finder; and a paper finger at each side of the line finder adapted to slide thereunder with a projection extending forwardly from the further side of each paper finger and adapted to engage the side of the line finder to limit the sliding movement.

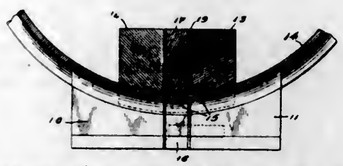
1,348,947. TRAIN-COUPLING. JOSEPH B. HOLLAND, Youngstown, Ohio. Filed May 22, 1919. Serial No. 298,832. 4 Claims. (Cl. 213—40.)

1. A car coupling, comprising a drawhead with laterally carried air line connecting means, including a vertically flat integral contactor with air passages and outlets, at one side; a relatively movable vertically flat receiver on the other side, including air passages with outlets; a plurality of supporting means for the movable receiver, arranged to enable horizontal movement without distorting the plane of contact, the integral and movable contactor and receiver coöperating with a similar receiver and contactor of a companion drawhead; and communicating air connections between the various passages of the contactor



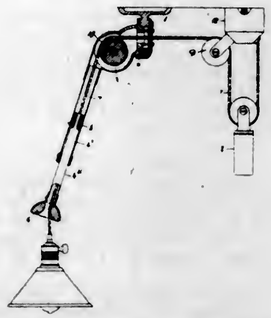
and receiver, establishing an air line when the drawheads are in operation.

1,348,948. ELECTRIC BUTT-WELDING AND MOLDING DEVICE FOR METAL WHEEL-RIMS. JOSEPH W. JACKSON, Anderson, Ind. Filed July 11, 1919. Serial No. 310,150. 2 Claims. (Cl. 219—4.)



1. A welding device for channeled metal wheel rims to receive tires, comprising two sets of electrode devices relatively reciprocable, each including a channel member shaped to fit snugly within the channel of a wheel rim or felly and an inner member shaped to fit snugly against the inner surface of such rim or felly in opposition to the first mentioned member, a channel forming member between the channel members first mentioned and alined with a geometrical longitudinal projection thereof, and a second forming member between the said inner members of said electrode devices but spaced inwardly of a geometrical longitudinal projection thereof, whereby when the electrodes are energized and said electrode devices pressed toward each other in engagement upon rim butts the latter will be welded with a continuous unmodified surface in the channel and reinforced by an enlargement at the inner side.

1,348,949. ADJUSTABLE SUPPORT FOR ELECTRIC LAMPS. JOHAN PETTER JOHANSSON, Fannalund, Sweden. Filed Apr. 19, 1919. Serial No. 291,300. 2 Claims. (Cl. 248—8.)



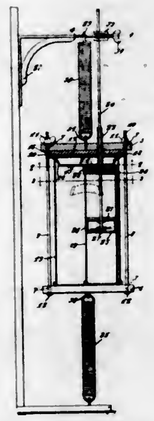
1. An adjustable support for electric lamps comprising a flexible electric conductor, a bracket, an annular friction joint carried by said bracket, a second friction joint carried by said annular joint and perpendicular thereto, a tangential extension on said second joint carrying a stem, said joints and stem being adapted to permit of the conductor passing freely therethrough, a single guiding roller for the conductor mounted in said second joint and co-axial therewith, the axis of both the annular joint and stem extending tangentially to said guiding roller.

1,348,950. AVIATOR'S HELMET. ANDZEI KAMINSKI, Uniontown, Pa. Filed Dec. 22, 1919. Serial No. 346,669. 4 Claims. (Cl. 2—117.)



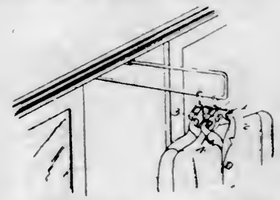
1. An aviator's helmet including an air container shaped to substantially conform with the wearer's head and to envelop the neck of the wearer, a flexible fluid container enveloping the air container and similarly shaped, the lower edges of said containers being cut out to rest upon the shoulders of the wearer, and means for respectively introducing air and fluid into said containers.

1,348,951. ICE-CREAM FREEZER. WILLIAM H. KNEMEYER, San Antonio, Tex. Filed Nov. 14, 1919. Serial No. 337,971. 2 Claims. (Cl. 259—94.)



1. In a device of the class described, a frame including an upper section and a lower section, an ice can supported between the sections, a circular head having an annular groove formed therein, contacting with the under surface of the upper section, said ice can having its upper extremity positioned in the annular groove, means for securing the sections together, a salt pan forming the closure for the ice can, a cream can positioned in the ice can and having its upper end in close engagement with the lower surface of the salt pan, for securing the cream can against displacement, a dasher in the cream can, and means for causing the dasher to move within the cream can.

1,348,952. CARD-HOLDER FOR GARMENT-HANGERS. WALLACE J. LANDRY, Baton Rouge, La. Filed Feb. 26, 1920. Serial No. 361,447. 3 Claims. (Cl. 40—10.)



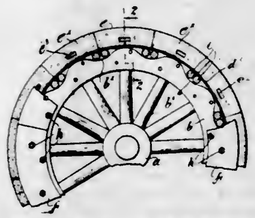
1. The combination with an ordinary garment hanger provided with a central projection extending upwardly from the garment shoulder supports of the hanger and having a label receiving edge, said label receiving edge being provided with a depression, one of the edge walls of the depression being cut away, the remaining marginal edge of the depression being under cut and provided with an over-hanging part, the under cuts being adapted to be engaged by the label or card, while the overhanging part is designed to overlie and retain the label in place.

1,348,953. EXPANDER FOR PISTON-RINGS. WILLIAM J. MCGINNISS, Washington, D. C. Filed June 21, 1919. Serial No. 305,746. 4 Claims. (Cl. 74—109.)



1. As a new article of manufacture, an expander for a piston ring comprising a ring adapted to be interposed between a main piston ring and a piston, said ring being formed with integral resilient tongues projecting from a face thereof.

1,348,954. TIRE. CONSTANTINE D. MACROPOULOS, New York, N. Y. Filed Dec. 19, 1919. Serial No. 345,973. 2 Claims. (Cl. 152—8.)

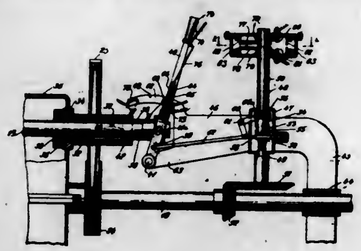


2. A tire structure comprising a wheel felly provided with transverse depressions, a flexible rim carried on the felly and provided with circumferential slots therein, screws passing through the slots and engaging the felly to permit flexing of the rim, a plurality of cylindrical cushions disposed transversely in each of the depressions and crowded between the walls thereof and the flexible rim, a tire carried on the rim, a circumferential plate secured on one side of the felly and a segmental plate secured on the other side of the felly, said plates being provided with flanges on their inner faces to engage the tire and said plates serving to hold the cushions, the rim and the tire in proper relation to the felly.

1,348,955. REVERSIBLE INTERNAL-COMBUSTION ENGINE. ALDEN E. OSBORN, New York, N. Y. Filed Apr. 6, 1916. Serial No. 89,267. 11 Claims. (Cl. 123—41.)

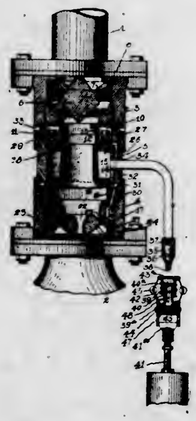
1. An internal combustion engine comprising a crank shaft, a valve operating shaft, means for connecting the

valve operating shaft with the crank shaft, means for rotatively adjusting the valve operating shaft relative to the crank shaft, a circuit breaker comprising a pair of contact members, a rotary member having two sets of con-



tact actuating cams longitudinally spaced thereon, and means dependent upon the rotative adjustment of the valve operating shaft for moving the rotary member to selectively render one of said sets of cams active.

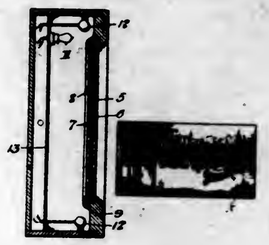
1,348,956. GOVERNOR. FRANK POKORNY, Jr., New York, N. Y., assignor of one-third to Francis W. Keegan and one-third to D. McRa Livingston, New York, N. Y. Filed Feb. 6, 1919. Serial No. 275,361. 6 Claims. (Cl. 137—153.)



2. In an internal combustion motor, in combination, a vacuum chamber subject to the aspiratory tension of the motor, a governor responsive to the pressure variations of said chamber, a self-closing valve for said chamber to control the operation of said governor, a motor driven member, and means, governed by the speed of said motor driven member, to operate said control valve.

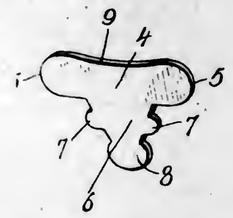
1,348,957. ILLUMINATION OF PICTURES. FREDERICK JOHN POPE, New Rochelle, N. Y., assignor to William B. Thompson, Yonkers, N. Y. Filed July 15, 1918. Serial No. 245,061. 8 Claims. (Cl. 40—132.)

1. In the illumination of a transparent pictorial landscape to simulate a varying natural lighting effect, the combination with the pictorial landscape, of a plurality of incandescent electric lamps arranged to illuminate the picture from the rear, said lamps being arranged in a plurality of different electric circuits, the lamps in each of said circuits producing in combination a lighting effect of a different color than the lamps of any other circuit, and means whereby the degree of incandescence of the lamps in each circuit may be independently and successively varied, the different colors produced by the lamps in each of said circuits and the range of varia-



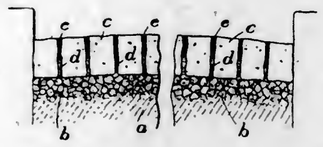
tion of the incandescence of the lamps being such that said several circuits combine to simulate successively different periods of the varying natural lighting effect; substantially as described.

1,348,958. COLLAR-BUTTON. FREDERICK A. REINHOLD, Jr., Astoria, N. Y. Filed Dec. 19, 1919. Serial No. 346,136. 2 Claims. (Cl. 24—101.)



1. A collar button comprising a flat integral member consisting of an elongated body, a shank extending substantially in the plane of the body from one side edge thereof and tapering outwardly, a head on the end of said shank, and an ear projecting laterally from each side edge of the shank to present a neck-band engaging stud portion of greater width than the said head.

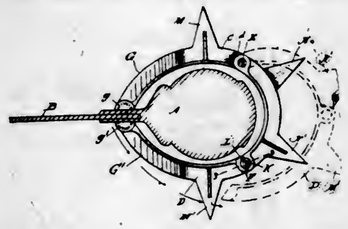
1,348,959. PAVEMENT. ALBERT TAYLOR RHODES, Worcester, Mass. Filed Apr. 4, 1919. Serial No. 287,474. 3 Claims. (Cl. 94—17.)



1. A pavement consisting of a suitable foundation, a series of paving blocks supported thereon and spaced apart, and a joint filler in the interstices containing carborundum or a like material to increase the wearing surfaces of the joint filler.

1,348,960. AUTOMOBILE-LOCK FOR DISK WHEELS. ALBERT W. SAEGESSER, Granite City, Ill., assignor to Liberty Auto Lock Co., St. Louis, Mo., a Corporation of Missouri. Filed Feb. 9, 1920. Serial No. 357,159. 7 Claims. (Cl. 70—90.)

6. A device of the character described comprising two members having radiating projections and having opposing forked and recessed inner ends and overlapping outer ends, a pivot and locking means connecting the respective



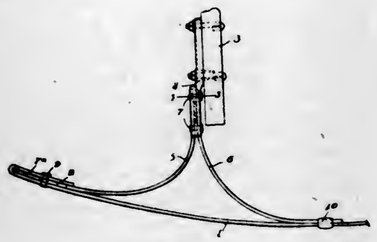
outer ends with the adjacent intermediate portion of said members substantially as described.

1,348,961. BUMPER. JAMES H. SAGER, Rochester, N. Y., assignor to J. H. Sager Company, Rochester, N. Y., a Corporation. Filed May 29, 1920. Serial No. 385,112. 6 Claims. (Cl. 293—55.)



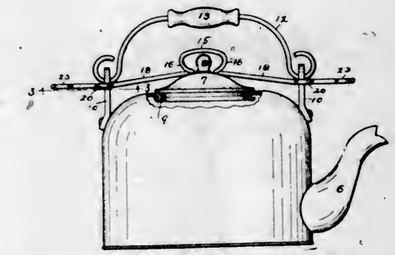
6. A bumper provided with a supporting arm having a curved end to conform to the curved end of a vehicle frame bar, said supporting arm also having lugs on opposite sides formed with openings, a reversible adapting member having a face curved to conform to the curved end of the supporting arm and a face curved to conform to the curved end of another vehicle frame bar, said adapting member having lugs on opposite sides provided with openings adapted to register with the openings in the lugs on the supporting arm in either position of the adapting member, and fastening means passing through the registering openings in the supporting arm and the adapting member to hold the supporting arm and the adapting member to a vehicle frame bar.

1,348,962. BUMPER. JAMES H. SAGER, Rochester, N. Y., assignor to J. H. Sager Company, Rochester, N. Y., a Corporation of New York. Filed May 29, 1920. Serial No. 385,113. 5 Claims. (Cl. 293—55.)



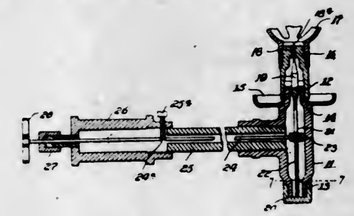
3. A bumper comprising a front bar formed of a spring strip with its ends turned inwardly on its rear face, bolts connecting said inwardly turned ends with the front portion of the front bar, and supporting means comprising two arms formed of spring stock and each deflected outwardly, each of said arms being provided with a slot near its free end through which the bolt extends, the end of each arm lying between an inwardly turned end and the front portion of the front bar.

1,348,963. COVER-RETAINER. CHRISTIAN E. SCHAFER, East Cleveland, Ohio. Filed June 26, 1919. Serial No. 306,940. 3 Claims. (Cl. 53—9.)



1. The combination, with a receptacle the body of which is provided at one side with a spout and has two ears formed at the top of the spout-carrying side and opposite side respectively of the body and facing each other and also has an opening formed at the top of the body centrally between said ears, a bail carried by said ears, and a cover forming a closure for and removable from said opening, of a cover-retainer engaging said cover and comprising two arms which are substantially in line and spaced endwise and extend from over the cover to said ears, said cover-retainer also comprising a handle-forming portion connecting said arms together at their inner ends, and said arms having offset portions embracing said ears under the end portions of the bail.

1,348,964. VAPOR-STOVE. STANLEY SELWA, Detroit, Mich., assignor of one-fourth to Louis Selwa, Detroit, Mich. Filed Sept. 2, 1919. Serial No. 321,079. 1 Claim. (Cl. 158—67.)

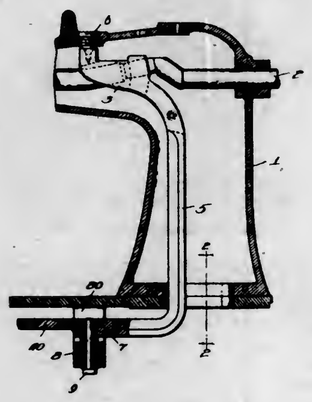


A burner comprising a T body having a lateral liquid fuel receiving connection, said body having reduced ends, a nipple on the upper reduced end of said body, said body having guide grooves in the lower reduced end thereof, a cap closing the lower reduced end of said body, a needle valve in said body movable to and from said nipple and having a slotted rack portion slidable in the guide grooves of said body, a basin on the upper reduced end of said body and retained thereon by said nipple, a flame distributer on said nipple, a rotatable rod extending through the lateral connection of said body into the slotted rack portion of said needle valve, a pinion on said rod meshing with the rack portion of said valve, and means carried by the lateral connection of said body and engaging in said rod to prevent longitudinal displacement thereof.

1,348,965. MOUNTING FOR SHUTTLE-OPERATING LEVERS. HARRY E. SMALLBONE, Buffalo, N. Y., assignor to King Sewing Machine Company, Buffalo, N. Y., a Corporation of New York. Filed May 15, 1919. Serial No. 297,272. 3 Claims. (Cl. 112—193.)

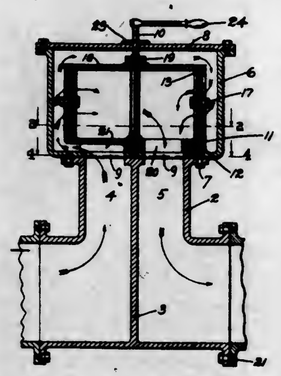
1. In combination with a shuttle-operating lever comprising an upper horizontal arm, a lower horizontal arm, and an upright connecting member between corresponding

ends of said arms; an upper pivotal bearing in the vicinity of the free end of said upper arm, a lower pivotal bearing for said lower arm arranged in axial alinement with the



upper bearing and serving both to support the weight of the lever and as a pivotal center; and means associated with the latter bearing to hold said lever against upward movement thereon.

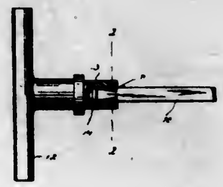
1,348,966. APPARATUS FOR PURIFYING GASES. HARRY F. SMITH, Dayton, Ohio, assignor to The Smith Gas Engineering Company, a Corporation of Ohio. Filed July 5, 1918. Serial No. 243,385. 12 Claims. (Cl. 183—63.)



1. In an apparatus for purifying gases, a housing having inlet and outlet openings, a hollow pad rotatably mounted therein and so positioned that the inlet and outlet openings are adapted to communicate one with the space inside the pad and the other with the space outside thereof.

1,348,967. HANDLE. WILLIAM A. SOMERS, Hamden, Conn., assignor to The Mount Carmel Brass Foundry Works, Inc., Hamden, Conn., a Corporation of Connecticut. Filed Nov. 19, 1919. Serial No. 339,193. 1 Claim. (Cl. 292—347.)

In combination with a spindle angular in cross section with the corners thereof at one end cut at an angle to the length of said spindle, the deepest portion thereof being distant from the end of said spindle; and a grip member provided with a shank having a socket with a cross section the same as the said spindle and fitting it snugly, which shank is compressed so that portions of the corners of said



socket between the ends thereof enter the cut corners of said spindle and thereby form an interlocking inseparable engagement between said spindle and grip member.

1,348,968. SHOE-STIFFENER. CHARLES E. SWETT, Boston, Mass., assignor of one-half to Harry H. Beckwith, Brookline, Mass. Filed Nov. 11, 1919. Serial No. 337,209. 5 Claims. (Cl. 91—68.)

1. A shoe stiffener comprising a fibrous body and a stiffening agent consisting of zein.

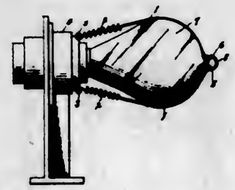
1,348,969. DROP-HAMMER. HOWARD TERHUNE, East Cleveland, Ohio, assignor to The Kilby Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 20, 1919. Serial No. 331,890. 9 Claims. (Cl. 78—29.)



1. In a drop hammer of the board type, the combination with the uprights and horizontal bearings located above the same, of rocker-members mounted in said bearings, one above each upright, shaft-bearings carried by said rocker-members eccentrically of said first bearings, the shaft bearings of the opposed rocker-members being in alinement, a rock-shaft parallel to said shaft bearings, an arm carried by said rock shaft adjacent to one of said uprights, a vertically movable friction bar secured to said arm and depending along said upright, a hammer movable along said uprights, operative connections between said hammer and bar, and operative connections between said rock-shaft and rocker-members whereby the latter will be rotated simultaneously in their bearings upon the movement of the latter.

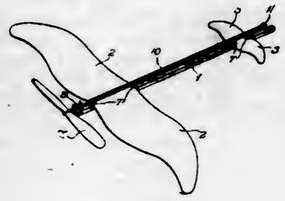
1,348,970. ELECTRIC-LIGHT-BULB STABILIZER. BENJAMIN L. THOMPSON, Roanoke, Va. Filed Mar. 18, 1920. Serial No. 366,935. 1 Claim. (Cl. 240—90.)

In an electric light bulb stabilizer, the combination with an electric light bulb socket of an electric light bulb, a substantially U shaped strandlike yieldable member adapted to engage said socket with its inner ends, and



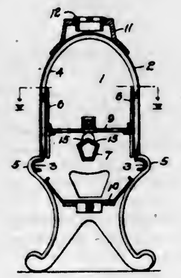
pass longitudinally around said bulb, means for centering said bulb in the outer portion of said strand and a dependent member carried below said centering means.

1,348,971. TOY AEROPLANE. ARTHUR F. THURNAU, Chicago, Ill., assignor to Lawrence Airplane Model and Supply Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 10, 1919. Serial No. 329,849. 6 Claims. (Cl. 244—14.)



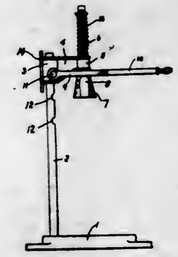
1. In a toy aeroplane, the combination of a longitudinally disposed body member, wings or planes comprising sheet material having a slot therein, said planes extending laterally from said member, a sheet metal fastening device formed with a flexible tongue inserted through said slot and bent over upon said sheet material to clamp a portion of the material flatwise upon the top of said device, having means whereby the portion of said device underlying the sheet material is secured to said member, and propelling mechanism carried by said member.

1,348,972. STOVE. JOHN MARK TOBIAS, Pittsburgh, Pa. Filed Aug. 18, 1919. Serial No. 318,116. 4 Claims. (Cl. 126—85.)



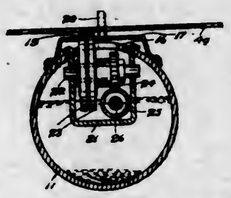
1. A stove comprising two end walls, means for securing said end walls against separation, a screen of resilient material bowed between said end walls, the said end walls being provided with internal support for the edges of the screen along the medial bowed portions thereof and with discontinuous external support for the edges of said screen at the terminal portions thereof, whereby the resilient screen may be applied and removed while the end walls remain held by their securing means, substantially as described.

1,348,973. BOTTLE-CAPPING MACHINE. CARL F. TROTTNOW, Rock Island, Ill. Filed Apr. 10, 1919. Serial No. 288,956. 1 Claim. (Cl. 226—84.)



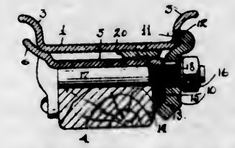
A device of the class described, comprising a suitably mounted standard, provided at its upper end with a series of notches; a head slidable on said standard; a pin removably held in said head and adapted for engagement with said notches; capping mechanism carried by said head, and provided on opposite sides with shoulders; and a bifurcated hand-lever pivotally connected with said pin and having a bearing on said shoulders.

1,348,974. DYEING-MACHINE. WILLIAM A. AINSWORTH, Utica, N. Y. Filed Jan. 19, 1920. Serial No. 352,347. 8 Claims. (Cl. 8—19.)



1. In a dyeing machine, means to transfer thread, yarn or like material from one holder therefor to another, a reservoir for coloring matter over which said material moves in passage, a roller mounted for rotation in said reservoir and projecting above the same, said roller being provided with liquid absorbing material around the same, means for continuously driving said roller, and means for intermittently pressing said thread, yarn or the like into contact with the liquid absorbing material, substantially as and for the purposes described.

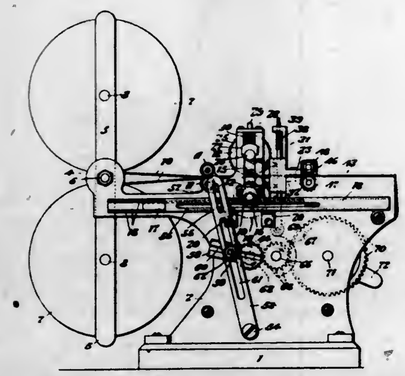
1,348,975. VEHICLE-WHEEL WITH DEMOUNTABLE RIM. LEE V. ANNABLE, Cleveland, Ohio, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 7, 1916. Serial No. 89,624. 4 Claims. (Cl. 152—21.)



1. The combination with a wheel body; of a demountable rim therefor; and means for securing said rim onto

said wheel body, said means including a member attached to the latter and adapted to detachably engage said rim, an inwardly inclined face on said wheel body, said member having a complementary inclined face, and means adapted to draw said member toward said wheel body, whereby such inclined faces coöperate to move said member radially inward and exert a pull on said rim in the same direction.

1,348,976. MACHINE FOR MEASURING AND CUTTING RIBBON. ISRAEL ANTMAN, New York, N. Y. Filed Sept. 5, 1919. Serial No. 321,882. 4 Claims. (Cl. 164—49.)



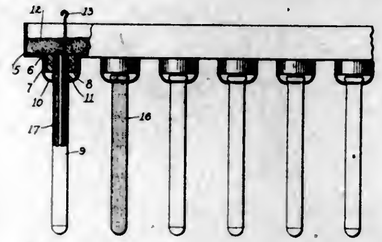
1. In a machine of the class set forth, the combination of a frame, a lever pivotally held at one end to the frame, a crank shaft journaled in the frame, a crank arm held to said crank shaft, a crank pin adjustably held to the crank arm and engaging in a longitudinal slot in said lever, a rack, means on the frame for guiding the rack, means forming a pin and slot connection between the rack and the free end of the lever, a feed roll shaft journaled in the frame, a pinion fixed on the feed roll shaft meshing with the rack, a feed roll loosely mounted on the feed roll shaft, a ratchet wheel fixed on the feed roll shaft adjacent one end of the feed roll, a pawl pivotally held to the end of said feed roll and engaging the teeth of the ratchet wheel, a second feed roll journaled in the frame and coöperating with the first mentioned feed roll, meshing gears fixed to said feed rolls, a fixed knife supported in the frame, a movable knife, a spring normally tending to force the cutting edge of the movable knife past the cutting edge of the fixed knife, a cam shaft journaled in the frame, a cam fixed on the cam shaft adapted to shift the movable knife against the pressure of its spring, meshing gears fixed on the cam shaft and crank shaft, and means for rotating the cam shaft.

1,348,977. WATER-SOFTENING COMPOUND AND METHOD OF PRODUCING SAME. GEORGE LEONARD BORROWMAN, New Rochelle, N. Y. Filed June 2, 1916, Serial No. 101,248. Renewed May 8, 1919. Serial No. 295,703. 13 Claims. (Cl. 23—13.)

2. The method of producing a water softening material capable of delivering soft water which consists in stabilizing a natural base exchange silicate by baking whereby it is rendered capable of resisting the powdering action of water flowing in contact therewith.

1,348,978. METHOD FOR FILLING LAMPS. WILLIAM J. CAMERON, Chicago, Ill. Filed Sept. 5, 1919. Serial No. 321,898. 3 Claims. (Cl. 18—59.)

1. The method of loading tubular bodies with a cementitious filler consisting of mounting the bodies pendent in a sifting tray; introducing into the tray cementitious material in a dry, finely divided condition; agitating the cementitious material to fill the bodies, and inverting the



tray in a liquid, whereby the liquid permeates the material in said tubes by capillarity and the rate and extent of such permeation may be observed and controlled.

1,348,979. [WITHDRAWN.]

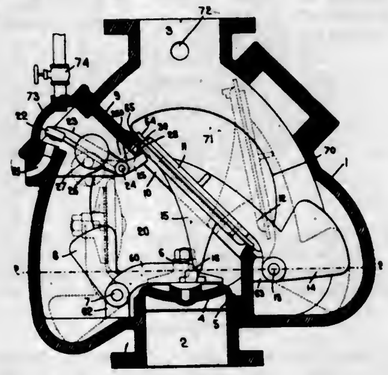
1,348,980. DEEP-WELL PUMP. MATTHEW T. CHAPMAN and MARK C. CHAPMAN, Aurora, Ill., assignors to The American Well Works, Aurora, Ill., a Corporation of Illinois. Original application filed Mar. 10, 1909, Serial No. 482,517. Divided and this application filed July 6, 1915. Serial No. 38,254. 7 Claims. (Cl. 253—199.)



1. In a deep well pumping mechanism, the combination of a pump casing located beneath the surface of the earth, a rotary impeller in said casing, a long power shaft driven from above and extending downward to said impeller, said power shaft being adapted to transmit power to said impeller, a fluid operated bearing located substantially at the top of said power shaft for supporting said shaft and impeller on a fluid surface, means for supplying fluid under pressure to said fluid bearing independently of the action of the pump means, and auxiliary bearing means for sustaining any resultant downward thrust of said power shaft.

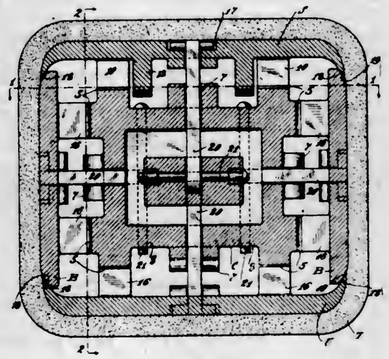
1,348,981. DRY-PIPE VALVE. EZRA E. CLARK, Newton, Mass. Filed Apr. 24, 1917. Serial No. 164,268. 3 Claims. (Cl. 169—22.)

1. In a dry pipe valve, the combination with a casing having a water inlet, an outlet communicating with the system, and a water-way forming communication between said inlet and outlet, of an inlet valve device pivoted to the casing at one side of the water-way and controlling the water inlet, an air pressure valve pivoted to the casing at the other side of the water-way and normally closing the same, said latter valve being situated in a position inclined to the water-way and being held to its seat by the



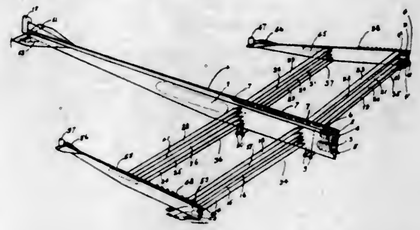
air pressure in the system, and two arms rigid with said air pressure valve and adapted when said valve is closed to engage the inlet valve device and hold it closed, said arms being situated and moving in planes either side of the inlet whereby when the valves are open said arms do not interfere with the flow of water through the water-way.

1,348,982. COLLAPSIBLE CORE-BAR. RAY G. COATES, Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa., a Corporation of New York. Filed June 7, 1919. Serial No. 302,458. 40 Claims. (Cl. 22—173.)



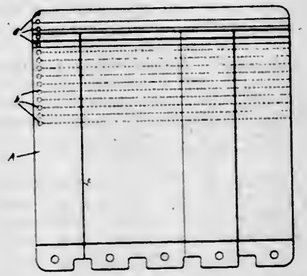
9. A collapsible core bar comprising a pedestal member, pattern wall members separately connected thereto for movement longitudinally and to and from the same, the extremity of the pedestal member at one end of the device providing a base upon which the device may stand, the extremities of the wall members at the opposite end of the device providing a base upon which the device may stand, members on the pedestal and wall members coöperating when the device is in standing position to maintain the wall members normally at their maximum distance from the pedestal member under the influence of gravity.

1,348,983. AEROPLANE. ISAAC COVINO, West New York, N. J. Filed Oct. 8, 1917, Serial No. 195,307. Renewed June 22, 1920. Serial No. 390,808. 2 Claims. (Cl. 244—14.)



1. An aeroplane comprising a main body having a horizontal and verticle steering means at its back or tail end and supporting wheels underneath said body, having on each side ten sustaining planes in sets of five each, vertically one over the other and forming two sets horizontally situated, each set being at a suitable distance apart, each plane having the usual angle of incidence; two equilibrating bodies of the same shape as that of central body and each located at the tip of the two series of planes on each side. All substantially as described.

1,348,984. SHEET-FEEDING MEANS FOR ACCOUNTING AND TYPEWRITING MACHINES. SAMUEL S. DIXON, Detroit, Mich., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Filed Mar. 27, 1917. Serial No. 157,818. 13 Claims. (Cl. 273.)



6. The combination of a record sheet having longitudinally disposed holes spaced uniformly to correspond with the printing spaces of the sheet and extending across the heading thereof, the last hole being one space in advance of the first printing space of the sheet, and a machine for making a record on said sheet provided with a sheet feeding means comprising a member acting through said holes, said machine being provided with means for forming additional holes in the sheet as the making of the record progresses.

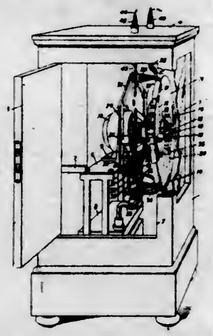
1,348,985. SHIRT-BUTTON. BENJAMIN R. EVANS, Eudora, Kans. Filed Nov. 19, 1919. Serial No. 339,154. 2 Claims. (Cl. 24—99.)



1. In a button of the character described, a member having a flange at one end, a cap slidable on said member,

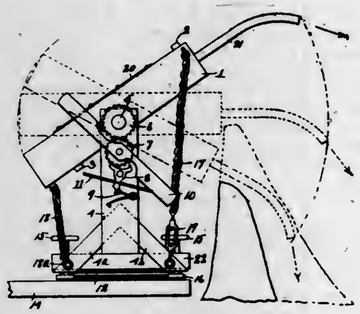
means to hold said cap in outward position on the member, a resilient element to draw the cap inwardly upon the member when said means is released, and elements operably connecting said member and the cap and adapted to coact with the flange in holding the button in active position.

1,348,986. HIGH-TENSION ELECTRIC MACHINE. CHARLES FAYER, New York, N. Y., assignor to Wappler Electric Co., Inc., a Corporation of New York. Filed June 26, 1919. Serial No. 306,813. 6 Claims. (Cl. 175—364.)



1. In a high tension electric machine the combination of a metallic table, a plurality of supporting members secured thereupon and disposed adjacent one edge thereof, posts of insulating material mounted upon said supporting members and extending away from said edge of said table, brushes mounted upon said posts and thus spaced away from said table and from all metallic parts in immediate proximity thereto, a synchronous motor mounted upon said table and provided with an armature shaft extending away from said table, and a rectifying disk mounted upon said armature shaft and provided with conducting members rotating in a plane disposed adjacent said brushes.

1,348,987. APPARATUS FOR DEFLECTING FIRE OF FIREARMS. ALEXANDER T. FISCHER, Detroit, Mich., assignor of one-third to Caroline Fischer and one-third to Mary Fischer, Detroit, Mich. Filed Feb. 28, 1919. Serial No. 279,839. 2 Claims. (Cl. 89—1.)



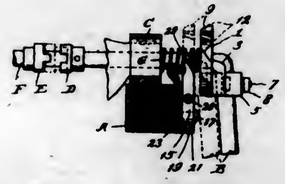
1. In a device of the class described, a gun platform, a rotatable table mounted thereon, friction plates carried by said rotatable table adapted to be forced against said platform so as to position said rotatable table thereon, a gun carrier mounted on said rotatable table comprising a tank adapted to contain water, a series of curved barrels mounted in said tank projecting therethrough and extending beyond the forward end thereof, said tank adapted at the rear of each of said curved barrels to receive the muzzle of a firearm in such a manner that the bore of the curved barrel will form a prolongation of the bore of the firearm.

1,348,988. PISTON. JOHN FLAMMANG, St. Louis, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed May 23, 1918. Serial No. 236,192. 11 Claims. (Cl. 74—108.)



1. A piston composed of a body expanded from its upper end to a point below the wrist pin and set in its expanded shape, and a wrist pin preventing compression of that portion of the piston below the wrist pin.

1,348,989. NON-KICK DEVICE. EDUARD FROHWERK, Kansas City, Kans. Filed Sept. 17, 1917. Serial No. 191,767. 9 Claims. (Cl. 123—185.)



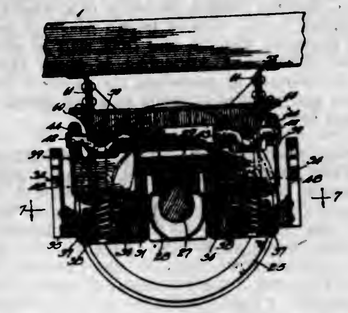
1. In a device of the character described, the combination with a motor shaft having a clutch member at its forward end, a starting crank having a clutch member at its rear end for engagement with the first-mentioned clutch member, a bearing in which said starting crank is journaled, and a coil spring having one end abutting said bearing and its opposite end abutting the starting crank to normally hold the clutch member thereon out of engagement with the companion clutch member, of a cam wheel having a large axial opening to fit freely over the starting crank and the coil spring and provided with beveled teeth, means for removably securing said cam wheel to the starting crank, and a shift member adapted to engage the beveled teeth on the cam wheel and force the same outwardly with the starting crank should the motor shaft rotate backwardly while being cranked.

1,348,990. PROCESS FOR RECOVERING PROTEIN AND PHOSPHATES OF CALCIUM AND MAGNESIUM FROM ACID WASTE WATERS. ADOLPH GIESECKE, Buffalo, N. Y. Filed Mar. 10, 1919. Serial No. 281,846. 2 Claims. (Cl. 71—9.)

1. The precipitation of a combination of protein and phosphates of calcium and magnesium from corn steep acid waste waters by partially neutralizing the solvent with milk of lime.

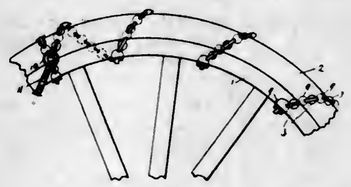
1,348,991. RAILWAY-CAR. GARTH GRIFFITH GILPIN, Riverside, Ill., assignor to Walter P. Murphy, New York, N. Y. Filed Nov. 27, 1918. Serial No. 264,349. 38 Claims. (Cl. 105—165.)

1. In combination with the body, wheels, axle and journal box of a railway car, of a structure for supporting the car body on the journal box comprising a supporting member and a sliding member associated with the box, cushioning means interposed between said members, and



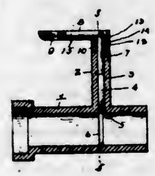
means connecting each end of said sliding member to the car body which have capacity for longitudinal and lateral movements.

1,348,992. NON-SKID ATTACHMENT FOR AUTOMOBILE-TIRES. JAMES M. GREEN, Chicago, Ill. Filed May 23, 1918. Serial No. 236,247. 1 Claim. (Cl. 152—14.)



A non-skid chain for motor vehicle wheels adapted to be spirally wrapped around the tire and rim of a wheel and including anti-skid link members consisting of a body having an inner face to fit the tire and provided at its outer face with a rib extending longitudinally of the chain and disposed diagonally of the tread of the tire when the chain is in position thereon, said ribs being extended beyond the body and having openings, and connecting links passing through the openings of the ribs.

1,348,993. BACKWATER STOP OR VALVE. LOWELL R. HAHN and OSCAR L. MILLER, Kokomo, Ind. Filed Mar. 26, 1920. Serial No. 369,048. 4 Claims. (Cl. 251—56.)



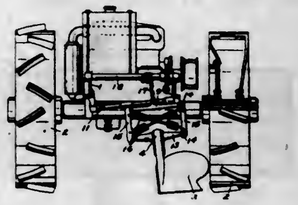
1. A back water stop including a pipe section, a hollow extension connected with the pipe section, a valve slidably mounted in said extension, a closure block for the outer end of the extension, a stem attached to said valve and projecting through said block, a packing chamber in the block through which the stem projects, a packing nut entering the packing chamber, and a handle section pivotally attached to the upper end of the stem.

1,348,994. PILE. GEORGE R. HECKLE, Montreal, Quebec, Canada. Filed Dec. 7, 1916. Serial No. 135,695. 9 Claims. (Cl. 61—57.)



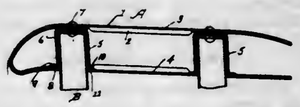
1. A pile driving apparatus consisting of an infrangible point, a hollow shaft, a removable core within the shaft and bearing upon the point and of greater height than the shaft, a head on the top of the core, and resilient means effecting a connection between the head and shaft whereby the driving impact is in part transmitted to the core and in part translated into a progressive pressure upon the shaft.

1,348,995. TRACTOR-PLOW. WALTER H. HIMES, Grove City, Pa., assignor to Himes Cohen Tractor Co., Grove City, Pa. Filed June 17, 1919. Serial No. 304,818. 7 Claims. (Cl. 97—60.)



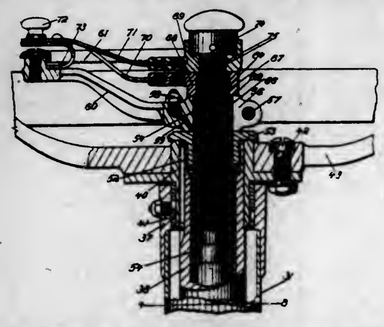
7. In a plow, the combination with the frame, of a plow provided with a beam, a draft means connected to the front end of said beam, a cross arm at the rear of said beam, a supporting bar mounted on the frame, and links connecting the ends of said bar and arm.

1,348,996. AEROPLANE CONSTRUCTION. HARRIS G. HOOPER, San Francisco, Calif. Original application filed Aug. 28, 1917, Serial No. 188,623. Divided and this application filed Sept. 13, 1918. Serial No. 253,876. 8 Claims. (Cl. 244—31.)



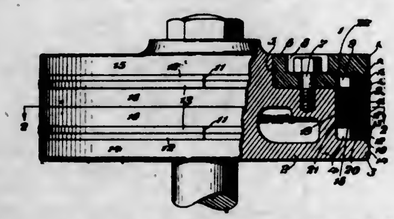
7. In improvements of the character disclosed, means for producing sustentation by atmospheric re-action comprising spaced upper and lower walls, the structure of said lower wall being bent upwardly and developed into a hollow beam which extends into contact with the upper wall.

1,348,997. MOTOR-VEHICLE. ORMOND E. HUNT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 30, 1915. Serial No. 69,394. 3 Claims. (Cl. 74—89.)



1. In a steering mechanism for motor vehicles, in combination, a stationary supporting casing having an upwardly extending tubular part, a tubular steering shaft having bearings in the upper and lower parts of said casing, a tube connected to the casing at its lower end beyond the end of said shaft, a steering wheel keyed to the upper end of said shaft, a threaded member adapted to hold said wheel in place and forming a bearing between the upper end of said shaft and said tube, and motor control devices mounted in said tube.

1,348,998. PISTON AND RINGS THEREFOR. MORTON C. HUTCHINSON, Woodbury, N. J., assignor of one-half to Leon G. BUCKWALTER, Merchantville, N. J. Filed Feb. 13, 1918. Serial No. 216,904. 2 Claims. (Cl. 74—109.)



1. In a piston, a body having an outer peripheral flange and a follower having its outer portion also provided with a flange, the chamber between said flanges containing a plurality of outer snap rings transversely cut, said snap rings having their peripheral portions of different diameters, solid bull rings located between said snap rings, and having their outer diameters substantially coincident with the outer diameters of said flange and follower and the lesser diameters of said snap rings, said bull rings consisting of a solid annular trough-shaped ring and a second ring having flat annular walls and spring holding pockets, said solid bull rings having their contiguous walls abutting, and a plurality of springs located in said pockets for pressing said bull rings outwardly against said snap rings to provide permanent adjustment for said rings.

1,348,999. FOOD BEVERAGE AND PROCESS OF MAKING THE SAME. JOHN L. KELLOGG and BORIS KAZMANN, Battle Creek, Mich., assignors to Kellogg Toasted Corn Flake Co., a Corporation of Michigan. Filed Mar. 31, 1917, Serial No. 158,961. Renewed June 27, 1919. Serial No. 307,249. 22 Claims. (Cl. 99—11.)

A hot food beverage product consisting of a soluble extract of a dextrinized and roasted starch-bearing material free from malt or saccharine material.

10. A beverage-producing process which consists in securing the extract of a dextrinized and roasted starch-bearing material free from malt or saccharine material.

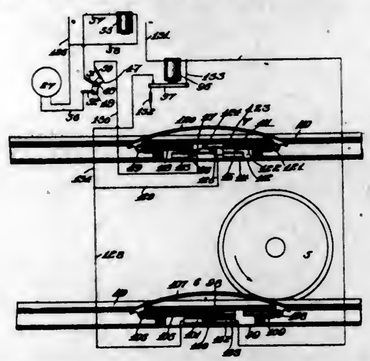
22. A beverage product consisting of a soluble extract of a roasted powder reduced from a dough of moistened starch producing material free from malt or saccharine material, cooked and dextrinized to about the extent which is produced by subjecting the loaves to the heat, moisture and pressure of steam at about fifteen pounds for about two and one-half hours.

1,349,000. FOOD BEVERAGE AND THE PROCESS OF MAKING THE SAME. JOHN L. KELLOGG and BORIS KAZMANN, Battle Creek, Mich., assignors to Kellogg Toasted Corn Flake Co., a Corporation of Michigan. Filed Mar. 31, 1917, Serial No. 158,962. Renewed June 27, 1919. Serial No. 307,250. 5 Claims. (Cl. 99—11.)

1. A beverage product process which consists in partially dextrinizing a mixture of starch-bearing and diastatic material, while arresting the diastatic formation of maltose to about the extent which results from subjecting the mixture in the presence of moisture to a temperature of about 250° F. for about two and one-half hours, in powdering the partially dextrinized material and roasting the powder.

5. A beverage extract, consisting of the extract of a roasted mixture of starch-bearing material and diastatic material partially dextrinized, while the formation of maltose is arrested to about the extent which results from heating the mixture at about 250° F. for about two and one-half hours.

1,349,001. SIGNAL SYSTEM. DEWEY M. KENNEDY, Rochester, N. Y. Filed May 11, 1916. Serial No. 96,902. 7 Claims. (Cl. 246—126.)



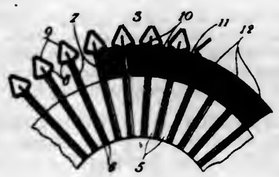
6. In an electric signaling system for railway crossings, a train signal, a crossing signal arranged to be controlled by a train approaching the crossing, a normally open electric circuit including lamps for effecting a characteristic illumination of the crossing signal to indicate danger arranged to be closed upon operation of the crossing signal mechanism and means connected with said circuit when closed for operating the train signal, the operation of said means being dependent upon the illumination of the lamps.

1,349,002. BALL-AND-SOCKET JOINT. JOHN W. LAKIN, Detroit, Mich. Filed June 19, 1919. Serial No. 305,272. 5 Claims. (Cl. 287—12.)



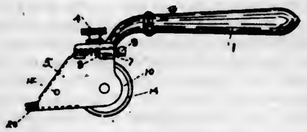
1. A ball and socket joint, having in combination, a pair of complementary and apertured cups, a washer within one of the cups, a rivet fastened to the washer and passing through the apertures in the cups, a yoke on the end of the rivet provided with a pair of lips, and a cam supported in the cup other than the one which bears the washer for engaging or disengaging the lips of the yoke and by the former drawing the washer toward such cup to bind the two cups together.

1,349,003. COMMUTATOR. EARLE P. LEE, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 20, 1918. Serial No. 250,740. 3 Claims. (Cl. 171—321.)



2. A commutator-riser, for use in the manufacture of dynamo-electric machines, comprising two members adapted to receive, between them, the armature-leads, said members having, near their outer ends, opposed surfaces which first converge and then diverge, so as to provide abutments to retain the armature-leads temporarily in place during the construction of the armature.

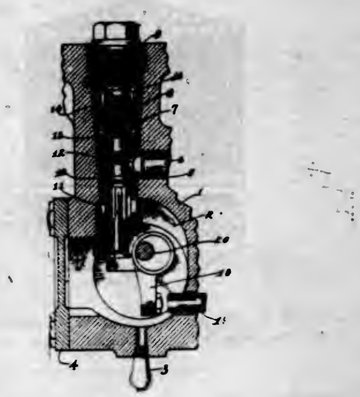
1,349,004. HAIR-CUTTING AND NECK-SHAVING DEVICE. CHARLES J. MANLEY, Kingston, Wash. Filed Nov. 10, 1919. Serial No. 336,827. 1 Claim. (Cl. 30—12.)



A device of the character described, comprising a body member having a detachable top, a handle detachably connected therewith, a cylinder rotatably mounted in the body, having on its outer surface a plurality of circumferential resilient rubber sections, a shaft mounted in the body, a pair of serrated hair-cutting blades slidably mounted thereon, means recessed within the cylinder, extending circumferentially and on either side of the central rubber covered section, coöperating with means carried by said blades, whereby a reciprocating hair-cutting movement is imparted to said blades when the cylinder is rotated.

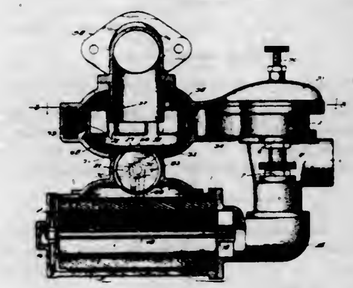
1,349,005. FUEL-PUMP. OSCAR W. PFEFFER, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 14 1917. Serial No. 191,425. 1 Claim. (Cl. 103—75.)

The combination with a high pressure pump body of cast iron having formed therein a plunger chamber and passages for the inlet and outlet of the liquid to be pumped, said chamber and passages where exposed to the fluid under pressure having relatively thick walls suited to prevent leakage of the liquid therethrough, a tapered chamber forming a communication between said plunger chamber and passages and a tapered valve holder of denser metal, occupying said chamber and containing inlet and outlet valves controlling the communications from said plunger chamber to said passages respectively,



the walls of said valve holder, where exposed to the liquid under pressure, being relatively thinner than the cast iron walls of said chamber.

1,349,006. CARBURETER. WILLIAM J. RUFF, Quincy, Ill. Filed Sept. 18, 1916. Serial No. 120,633. 4 Claims. (Cl. 261—12.)

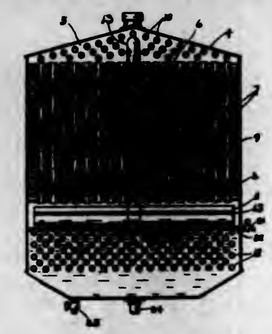


1. A carbureter comprising a housing having a mixing chamber and a divided air passage leading to the mixing chamber; a valve in each division of the air passage; a valve stem common to both valves; variable spring tensioning means for said valves for automatically controlling the passage of air through the divisions of said air passage; a porous cylinder in one of said divisions; means for supplying and maintaining fuel at a predetermined height partially immersing the cylinder; and a manually operable valve for controlling the passage of fuel and air from said porous cylinder to the mixing chamber.

1,349,007. STEAM-CONDENSER AND OIL-SEPARATOR FOR STEAM-DRIVEN VEHICLES. LOUIS E. SCHUCH, Cincinnati, Ohio. Filed Mar. 20, 1919. Serial No. 283,754. 2 Claims. (Cl. 257—25.)

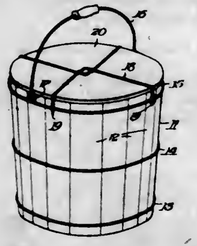
1. A steam condenser comprising a casing having a chamber at the upper end thereof, a chamber at the lower end thereof, vertical tubes connecting the chambers, a steam nozzle located at the lower ends of the tubes

within the lower chamber, cooling plates surrounding the tubes and in spaced relation to each other, and horizon-



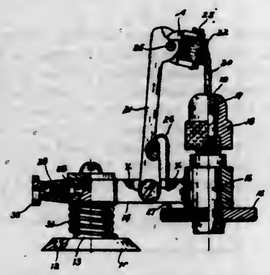
tal tubes in the upper and lower chambers adapted to permit the passage of air through them.

1,349,008. PAIL. HORACE J. SCOTT, Hill City, Minn. Filed Mar. 3, 1919. Serial No. 280,289. 5 Claims. (Cl. 217—89.)



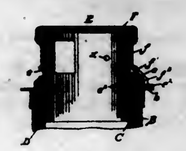
1. A pail including an endless wire hoop having laterally extending integral loops for the attachment of sealing wires, bails and the like, the wire of the hoop interlocked at the loop to prevent circumferential stretching.

1,349,009. PHONOGRAPH-NEEDLE-SHARPENING ATTACHMENT. JACOB SILBERSTANG, New York, N. Y. Filed Jan. 15, 1920. Serial No. 351,637. 9 Claims. (Cl. 51—241.)



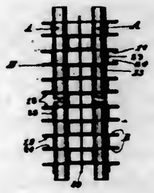
1. A sharpening device for phonograph needles including a support, an arm pivoted thereto to swing about a vertical axis, a spindle mounted in said arm and having a needle clamp and a friction wheel for engagement with the periphery of a phonograph record support upon the horizontal swinging of said arm and a grinder for operative engagement with the point portion of a needle.

1,349,010. WICK CLEANER AND SHAPER. FREDERICK W. SPANGLER, Chicago, Ill., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation of Illinois. Filed June 1, 1918. Serial No. 237,708. 14 Claims. (Cl. 67—68.)



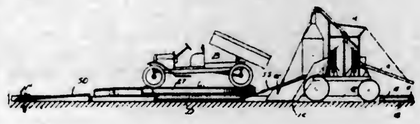
4. A wick cleaner and shaper having a tubular portion or body, blades extending laterally therefrom and terminating below their points of origin, and reinforcing arms for said blades.

1,349,011. RADIATOR FOR INTERNAL-COMBUSTION ENGINES. PHILMORE F. SPERY, Chicago, Ill. Filed Oct. 28, 1919. Serial No. 334,038. 3 Claims. (Cl. 257—130.)



1. A radiator core, comprising, in combination, a multiplicity of vertical water tubes in parallel spaced apart relationship, each of said water tubes being an oblong tube having smooth flat sides and rounded edges, there being on said tube a series of laterally extending fins, said fins being elongated ovates having parallel sides and rounded ends, said fins being each perforated by oblong openings fitting the water tubes by a tight fit, said fins being connected at their sides by bars, said bars being bent and rebent to place the ovates into parallel alinement, said fins being connected to said tubes by being soldered thereto.

1,349,012. APPARATUS FOR USE IN ROAD-BED CONSTRUCTION. JOSEPH F. STABELL, Buffalo, N. Y. Filed Mar. 1, 1920. Serial No. 362,518. 1 Claim. (Cl. 104—45.)



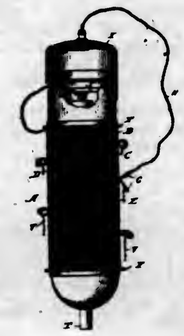
In a road construction apparatus, the combination of a turntable, a carriage on which said turntable is rotatably mounted, wheels journaled on said carriage at its opposite sides, and adapted to roll on raised tracks at opposite sides of the road bed between which tracks said carriage depends, an inclined approach detachably connected to one end of said carriage, and a machine detachably connected to the opposite end of said turntable carriage, whereby a vehicle can be driven up onto said turntable and turned to a position to discharge material therefrom into said machine, and said turntable, said approach and said machine can be simultaneously advanced as the work progresses.

1,349,013. COLORING AND PARTING MATERIAL FOR DENTAL IMPRESSIONS AND MOLDS. WILLIAM H. STANLEY, Montreal, Quebec, Canada. Filed Dec. 6, 1919. Serial No. 343,116. 7 Claims. (Cl. 18—47.)

1. A combined coloring and parting material for plaster impressions which comprises water, washing soda, shellac and alcohol.

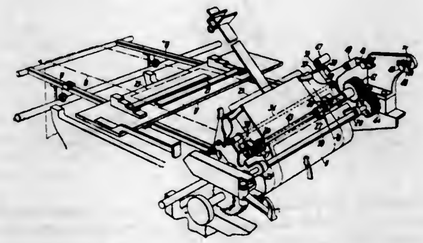
5. A mixture according to claim 4, in which the aqueous solution is in approximately the proportions of 2 oz. of soda and a quarter of an ounce of soda to 3 qts. (imperial) of water, and the shellac solution in the proportion of 1 lb. of dry shellac to 2 qts. (imperial) of water, the aqueous and alcoholic solution being mixed in approximately the proportion of 3 parts of aqueous solution to 1 part of alcoholic solution by measure.

1,349,014. SUBMARINE-DESTROYING BOMB. JOSEPH A. STEINMETZ, Philadelphia, Pa. Filed Apr. 13, 1917. Serial No. 161,874. 2 Claims. (Cl. 102—2.)



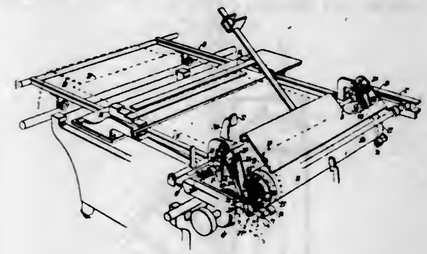
1. The combination with a bomb adapted to sink in water, of a float loosely attached to the bomb and initially forming an extension of its body and a series of connectible cable segments coiled about the bomb, one above the other, each with readily disconnectible ends exposed, one of the segments being connected to the float and another to the detonating devices of the bomb, whereby the exposed ends permit as many as desired of the wound segments to be connected in series to the float.

1,349,015. TYPEWRITING-MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 15, 1918. Serial No. 240,130. 39 Claims. (Cl. 197—126.)



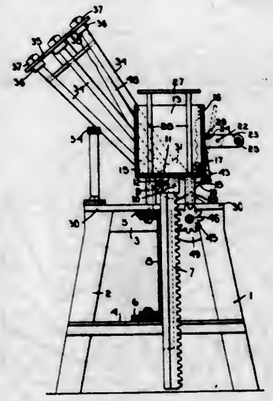
1. In a typewriting machine, the combination of a platen; a line-space wheel therefor; means to coöperate with said line-space wheel for feeding around the platen webs, carbon sheets and a record sheet as a unit in superposed relation, with the record sheet between the webs and the platen; means for displacing the platen to ease the carbon sheets and permit them to be shifted along the webs; and means connected to the platen-displacing means for advancing said record sheet relatively to said webs and platen.

1,349,016. TYPEWRITING-MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 9, 1918. Serial No. 253,241. 21 Claims. (Cl. 197—126.)



1. The combination with a carriage and a revoluble platen therein, of a device whereby the platen may be lifted relatively to the carriage, feed-rolls mounted on said carriage for holding work-sheets to the platen while the latter is in depressed position, an axle for the platen, a separately-revoluble portion journaled on the platen-axle, a special feed-roll carried by said lifting device to coöperate with said separately-revoluble portion adapted to hold a work-sheet thereagainst, and means whereby said special feed-roll will be maintained in ineffective position relative to said separately-revoluble portion while the platen is in depressed position on said carriage.

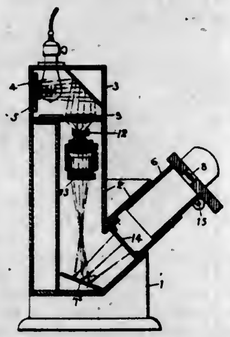
1,349,017. MOLDING-MACHINE. GEORGE H. TALBOT, Newtonville, Mass. Filed Nov. 8, 1919. Serial No. 336,708. 15 Claims. (Cl. 25—54.)



3. A molding machine comprising a frame, a vertically reciprocable mold, a follower adjustably mounted on said frame and adapted to be swung about its pivot to position said follower in and out of operative relation to said mold, adjustable means for limiting the swinging movement of said follower support to cause the follower to register with the mold and means for reciprocating said mold toward and from said follower.

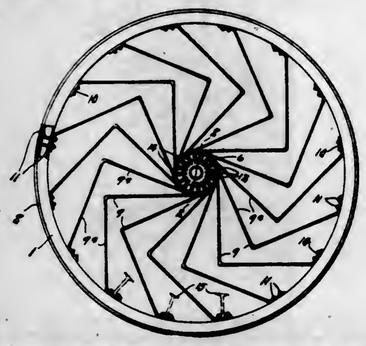
5. A molding machine comprising a frame, a vertically reciprocable mold, a follower support comprising blocks pivotally mounted on said main frame, set screws adjustably mounted on said blocks adapted to engage said frame to limit the swinging movement of said blocks, a follower supporting plate, a follower secured to said plate at a distance therefrom, tension members connecting said follower supporting plate to said blocks and means for reciprocating said mold toward and from said follower.

1,349,018. STEREOSCOPE. TOYOJIRO TERASHIMA, Tokyo, Japan. Filed July 25, 1916. Serial No. 111,111. 1 Claim. (Cl. 88—29.)



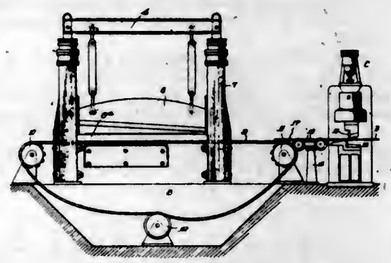
A stereoscope comprising a lamp casing containing a lamp and reflector, a light directing casing, compound lenses disposed between said casings, spaced apart a pupillary distance and one being slightly in advance of the other, condensing lenses disposed within the light directing casing and spaced apart a pupillary distance, one being slightly in advance of the other, a picture support disposed between said compound and said condensing lenses, an observation chamber disposed at an angle to said light directing casing, a reflector at the junction of said last named casing and said chamber, a screen in said observation chamber, and observation openings in said observation chamber.

1,349,019. SPRING-WHEEL. GEORGE B. TIMBERLAKE, St. Louis, Mo. Filed Aug. 25, 1917. Serial No. 188,201. 2 Claims. (Cl. 152—50.)



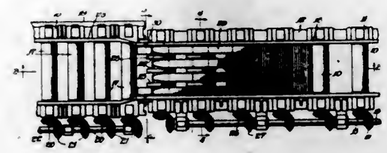
1. In a vehicle wheel, the combination with a hub and rim, of a spoke formed of a single piece of metal bent to form a pair of legs arranged substantially at right angles to each other and each of which leg varies in thickness throughout its length with the thinnest portion at the center of the leg.

1,349,020. SCRAP-CUTTER. WILLIAM J. TODHUNTER, Chicago, Ill. Filed May 10, 1918. Serial No. 233,674. 3 Claims. (Cl. 164—49.)



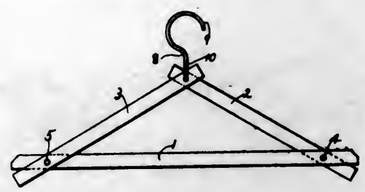
2. A metal plate trimming shear provided with a feed-in conveyer and a feed-out conveyer, a scrap conveyer disposed between the shear and the feed-out conveyer and traveling at an angle to said feed-out conveyer.

1,349,021. SLABBING-MILL. WILLIAM J. TODHUNTER, Chicago, Ill. Filed Dec. 31, 1919. Serial No. 348,623. 4 Claims. (Cl. 80—44.)



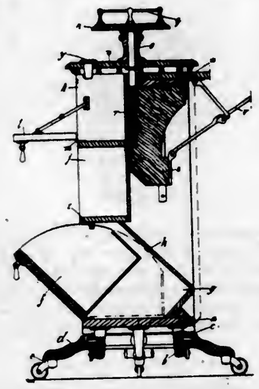
4. An ingot delivery mechanism including in combination an ingot run table, a mill approach table in alinement with said ingot table, and collared rollers interposed between said tables which collars are greater in diameter than the rollers of the ingot table, and a slotted slab for supporting an ingot adapted to be reciprocated on the ingot table whereby said slotted portion may straddle said collars, and the ingot carried thereby be transferred from said slab to said collars.

1,349,022. FOLDING SUIT-HANGER. LAYTON WATTON TOWNSEND, Hamilton, Ontario, Canada. Filed Feb. 12, 1920. Serial No. 358,281. 1 Claim. (Cl. 211—13.)



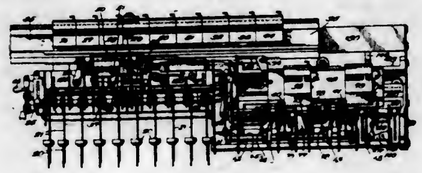
A folding suit hanger comprising three straight members, two of said members being of equal length and shorter than the third member, the shorter members being pivotally connected at one end to the third member adjacent its ends and on opposite sides thereof, a hook member pivotally connecting the free ends of the shorter members, and the three members being adapted to fold in parallelism with each other upon removal of the hook for a purpose specified.

1,349,023. BED-TABLE COMBINED WITH CUPBOARDS OR LIKE RECEPTACLES. ALBERT TROTTER, Loughton, England. Filed May 18, 1920. Serial No. 382,345. 2 Claims. (Cl. 45—81.)



1. An article of furniture, comprising a movable base, a pedestal rotatably mounted on the base, a block mounted for sliding movement in the pedestal, a screw mounted in the pedestal and having threaded connection with the block for vertically adjusting the block, a table hinged to the block, and means between the block and table for holding the table extended relative to the block and pedestal.

1,349,024. CALCULATING-MACHINE. JOHN C. WAHL, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 22, 1917. Serial No. 192,681. 22 Claims. (Cl. 235—59.)



3. In a calculating machine, the combination of a main carriage, a set of numeral keys, a totalizer mounted on said main carriage, an actuating mechanism for said totalizer, a control for said actuating mechanism whereby its action on said totalizer may be determined, a subsidiary carriage adapted to be intermittently connected to said main carriage, a plurality of totalizers mounted on said subsidiary carriage, an actuating mechanism for each of said totalizers, a gear control for each of said actuating mechanisms to control the atcion of said actuating mechanism on said totalizers as a result of the action of said numeral keys, and a common reverse effective on all of said actuating mechanisms whereby each may be thrown into the reverse of its former conditions regardless of the condition of its individual control.

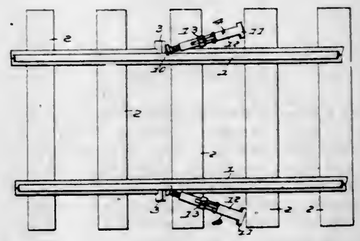
15. In a calculating machine, the combination of a totalizer, a framing therefor, a pair of adjustable cams mounted in said framing, each of said cams being capable of adjustment to any of three positions, and a common means to clamp said cams in their adjusted positions.

1,349,025. MECHANICAL PENCIL. JOHN C. WAHL, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 10, 1919. Serial No. 276,131. 5 Claims. (Cl. 120—18.)



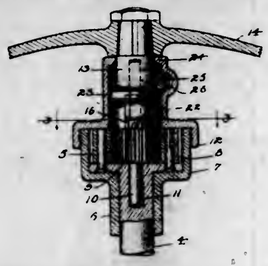
5. In a mechanical pencil, the combination of a casing, a screw thread interior to said casing, a plunger device including two pieces relatively movable to each other and adapted to engage said thread, and a spring supported by said pieces and adapted to hold them into engagement with said thread.

1,349,026. TIE-SPACING DEVICE FOR RAILROADS. ASA C. WALKER, Mount Airy, Ga., assignor of one-half to Frank M. Boston, Atlanta, Ga. Filed Feb. 18, 1920. Serial No. 359,742. 2 Claims. (Cl. 254—133.)



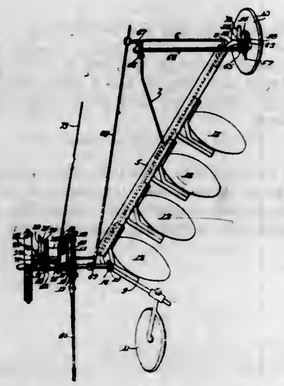
1. In a device of the kind set forth, an abutment clamp comprising a body having a base adapted to engage under the base of the rail, said body having a lateral projection to overlie the base of the rail and engage under the ball of the rail and in contact with the web thereof, said abutment clamp adapted to wedge in engagement with the rail, when pressure is applied thereon when using a jack between the clamp and a tie, the upper face of the base of the clamp and the under face of the projection of the body being correspondingly beveled, whereby the clamp may be disposed angularly with relation to the rail, to insure its wedging engagement with the rail, said lateral projection having its upper inner portion cut away and beveled to wedge under the ball of the rail.

1,349,027. STEERING-WHEEL LOCK. FRANK R. WARREN, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,657. 9 Claims. (Cl. 70—129.)



5. The combination with a steering wheel, of clutching mechanism for bringing it into operative relation with the steering post, and resilient means for holding the wheel with the clutching mechanism in inoperative position.

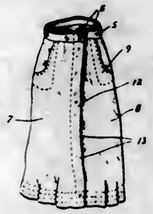
1,349,028. POWER-LIFT PLOW. LEWIS E. WATERMAN, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill, a Corporation of Illinois. Filed Oct. 26, 1916. Serial No. 127,912. 2 Claims. (Cl. 97—55.)



1. In a plow, the combination of a plow-carrying frame, supporting wheels therefor, a rockable crank axle mounted on the frame carrying one of said wheels, power-operated means adapted to be driven from the wheel on said crank axle for raising the frame including a revoluble member and a connection between said power-operated means and the frame through which the raising and lowering movement is transmitted, comprising a link connected eccentrically to said revoluble member, an adjusting lever mounted on the frame, a link pivotally connecting the adjusting lever and the first mentioned link, and means for maintaining the pivotal connection between said links substantially stationary when the power means is operated to raise the plow frame and permitting said pivot to be adjusted by the lever when it is desired to vary the working depth through adjustment of said lever.

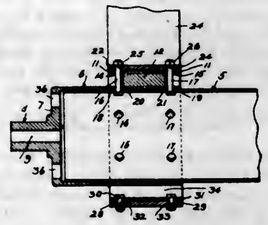
1,349,029. GARMENT. JULIA WEIAS, Kenosha, Wis. Filed July 16, 1919. Serial No. 311,117. 1 Claim. (Cl. 2—42.)

A combination garment which consists of a divided skirt secured to a suitable waist band, the upper portion of the meeting edges of the skirt sections at the rear of the garment being permanently secured together, button holes and buttons on the lower portions of the meeting edges at the rear of the garment and on the meeting edges of the skirt sections at the front of the garment to hold the sections in one position in the form of a skirt and in another position to form a pair



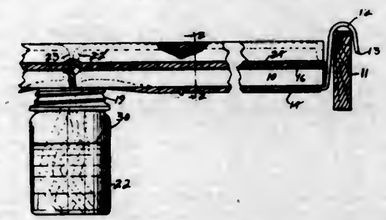
of trousers, a relatively wide slotted hem at the lower edge of each section, a strap or tape provided with a button hole secured to said hem and passed through the slot thereof, and buttons intermediate the ends of said tape adapted to be engaged in said button holes when it is desired to use the garment as trousers, substantially as described.

1,349,030. WHEEL-GUDGEON. WILSON B. WIGLE, Montebello, Calif. Filed Sept. 29, 1919. Serial No. 327,035. 4 Claims. (Cl. 242—117.)



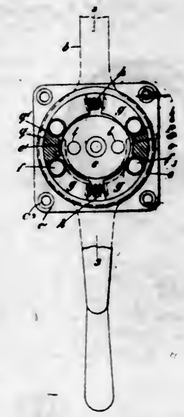
1. A device of the class described, comprising a hollow cylindrical drum, a sleeve provided with a closed end adapted to fit over the end of said drum, a trunnion projecting from the closed end of said sleeve, a plurality of radially projecting webs adapted to support a hollow polygon secured to said sleeve, a plurality of tangential spokes adapted to abut against the flat outer surfaces of said polygon, and bolts adapted to pass through apertures in said spokes, polygon, sleeve, and drum, for securing these parts together.

1,349,031. SANITARY CHICKEN-ROOST. HENRY WINDAHL, New Sharon, Iowa. Filed Apr. 27, 1920. Serial No. 377,084. 5 Claims. (Cl. 119—25.)



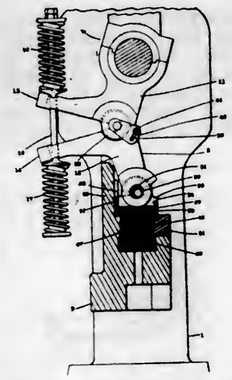
1. A chicken roost having a cross bar, provided with a wick extended longitudinally along the top of said bar, downwardly around the ends of the bar, and along the bottom of the bar, a germicide container connected with said wick below said bar.

1,349,032. SELF-LOCKING PIVOTED JOINT. CECIL STANLEY WINDSOR, London, England. Filed Feb. 17, 1919. Serial No. 277,569. 3 Claims. (Cl. 296—92.)



1. A self-locking pivoted joint comprising two parts pivoted together, a cam-block secured to one of the parts, free rollers in a race in the other part normally locking the cam-block against movement, shoulders on said part and a device mounted to rotate coaxially with the pivot of the joint, lugs on said device to engage between the rollers and to bear against said shoulders for the purpost of unlocking the parts and effecting their relative movement.

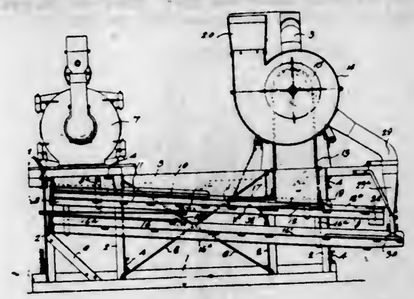
1,349,033. POWER-PRESS. EDMUND W. ZEH, Newark, N. J. Filed Nov. 12, 1917. Serial No. 201,690. 19 Claims. (Cl. 74—48.)



1. The combination of a pitman comprising sections hinged together, arms on the hinged ends of said sections projecting adjacent each other, a rod extending slidably through said arms and secured against withdrawal, and compression springs one between each arm and the end of the rod.

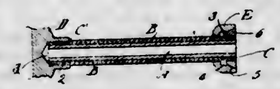
1,349,034. METHOD OF AND APPARATUS FOR TREATING COTTON-SEED. DOW L. ADELSPERGER, Springfield, Ohio, assignor to The Bauer Brothers Company, Springfield, Ohio, a Corporation of Ohio. Filed Dec. 24, 1917. Serial No. 208,618. 15 Claims. (Cl. 130—17.)

1. A process of treating cotton seed, consisting of cutting the major portion of a flow of seed by spacing apart the cutting devices, allowing the cut and uncut portions to flow as one stream for a predetermined distance when the hulls and uncut portions of the seed are separated



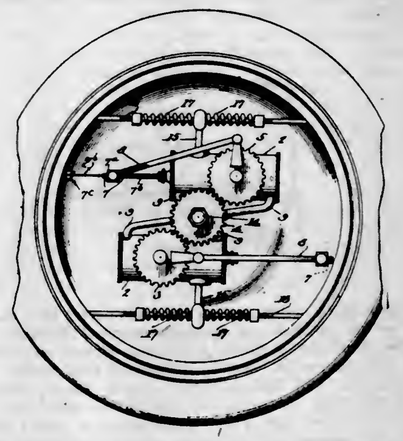
from the meats and the meats, hulls and uncut seed are directed in separate streams, the uncut seed being returned to the original flow for cutting.

1,349,035. VEHICLE WHEEL AND SPOKE. FREDERICK T. ALDER, Mount Vernon, N. Y. Filed Mar. 29, 1919. Serial No. 286,159. 4 Claims. (Cl. 21—69.)



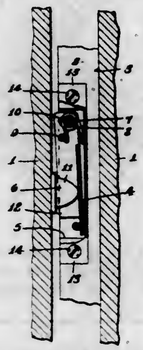
1. A vehicle wheel having spokes respectively comprising an inner tubular member and an outer tubular member, said last named member embodying a closely wound coil of wire, and fastening means for fixing said members together, said fastening means engaging the wheel hub and felly.

1,349,036. COMPRESSED-AIR POWER-DRIVE. GEORGE C. ALSTAD, Chicago, Ill. Filed June 1, 1918. Serial No. 237,791. 8 Claims. (Cl. 60—57.)



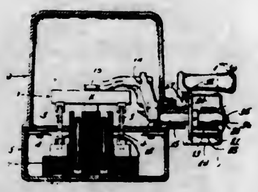
1. In a fluid driving mechanism, the combination of a wheel, a motor cylinder carried by the wheel, a stationary axle, gearing between said axle and cylinder for rotating said wheel and cylinder by fluid pressure in said cylinder, and a resilient connection between said cylinder and wheel.

1,349,037. BRAKE FOR WINDOW-SASHES. ROY T. AXE and EDWARD F. CHAFFEE, Syracuse, N. Y., assignors to The O. M. Edwards Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Dec. 31, 1917. Serial No. 209,712. 8 Claims. (Cl. 16—77.)



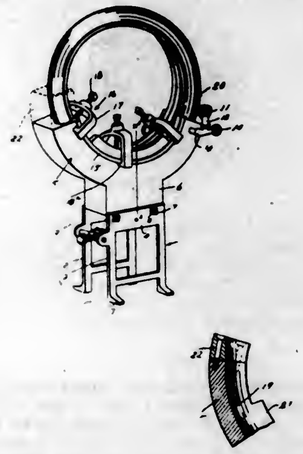
6. The combination of a window frame, a sash movable in the frame, a carrier pivoted to one of said parts and having a guide, extending lengthwise of the path of movement of the sash and toward the axis of the carrier, the carrier being also movable in a direction transversely of its pivot, a brake shoe rockably mounted in the guide on an axis extending parallel to the axis of the carrier and also shiftable lengthwise of the guide toward and from the pivot of the carrier, the brake shoe coacting with the other of said parts, and spring means tending to move the carrier on its pivot and to resist transverse movement of the carrier relatively to its pivot, substantially as and for the purpose specified.

1,349,038. QUICK-ACTION SWITCH. CARL H. BISSELL and FLOYD C. SMITH, Syracuse, N. Y., assignors to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed May 2, 1917. Serial No. 166,062. 8 Claims. (Cl. 200—67.)



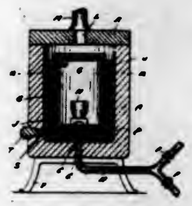
1. In a quick action switch, the combination of a movable switch member, an operating element movable in reverse directions, a spring interposed between said element and the switch member to transmit the motion of said element, and the operating element having means for acting upon the spring to tension the same in one direction or the other when said element is moved forwardly or rearwardly, means for normally delaying the operation of the switch member in either direction by the spring, means for releasing the former means as the operating element approaches the end of its throw in one direction or the other, and means for limiting the movement of the operating element, substantially as and for the purpose specified.

1,349,039. VULCANIZER. ARTHUR A. BITTER, Los Angeles, Calif., assignor, by mesne assignments, to Western Vulcanizer Manufacturing Company, Chicago, Ill., a Copartnership consisting of Herbert K. Wheelock, Frank A. Weller, and Walter R. Fontaine. Filed Sept. 12, 1917. Serial No. 190,946. 6 Claims. (Cl. 18—18.)



1. In a vulcanizer, a vulcanizing iron having an arcuate tire receiving groove therein, and a block of nonmetallic material secured to one of the iron and having a groove forming a continuation of the tire receiving groove in the vulcanizing iron, the groove of the block flaring throughout its length from its inner end to its outer end to prevent marking of a tire under treatment in the vulcanizer.

1,349,040. COMBUSTION OF FUEL. WILLIAM ARTHUR BONE and JAMES WILLIAM WILSON, Leeds, and CYRIL DOUGLAS MCCOURT, London, England, assignors, by mesne assignments, to Surface Combustion, Inc., Wilmington, Del., a Corporation of Delaware. Filed Nov. 5, 1910, Serial No. 590,774. Renewed Dec. 29, 1919. Serial No. 348,038. 4 Claims. (Cl. 158—7.)



1. An apparatus for burning explosive gaseous mixtures comprising a furnace structure having an outer wall of low heat conductivity and having a heating chamber having comparatively thin side walls spaced away from the outer wall to provide a combustion space extending about the side walls of the heating chamber, a restricted mixture supply passage opening into the lower part of said combustion space, a bed of granular refractory material in the combustion space filling said space adjacent the inlet opening of the supply passage and extending upward about the side walls of the heating chamber, and means for supplying an explosive gaseous mixture to the supply passage under pressure sufficient to cause the mixture to flow through the passage with a velocity greater than the speed of ignition of the mixture, whereby the mixture is caused to burn within the bed of refractory material near the inlet opening of the supply passage and the products of combustion are caused to pass through additional portions of the bed adjacent the side walls of the heating chamber.

1,349,041. CURTAIN-FIXTURE. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1920. Serial No. 358,474. 15 Claims. (Cl. 156—19.)



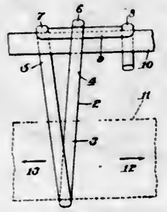
15. In a double curtain fixture, the combination of end brackets each having a pair of forwardly and laterally spaced sockets, an intermediate bracket having a pair of parallel vertical side walls formed with vertical slots, and two pairs of duplicate flat telescopic curtain rods, the rods of each pair having elbow shaped end portions supported in the sockets of said end brackets and straight end portions supported in the vertical slots of said intermediate bracket.

1,349,042. CURTAIN-ROD. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1920. Serial No. 374,314. 7 Claims. (Cl. 156—19.)



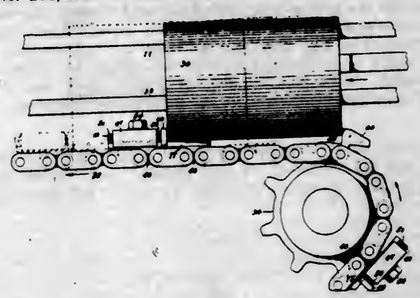
7. The combination with a hollow curtain rod, of a spring wire loop projecting from an end of said rod and having its stem portions anchored within said rod some distance inwardly from the end of the latter, and a flat metal strip anchored at its inner end within the end of said rod and at its outer end embracing the outer end of said loop, and serving as both a stiffening and locking member for the latter.

1,349,043. CABLE-SUPPORT. ORSON W. BRENIZER, Philadelphia, Pa., assignor of one-fifth to Andrew V. Groupe, Philadelphia, Pa. Filed Sept. 25, 1917. Serial No. 193,067. 5 Claims. (Cl. 248—33.)



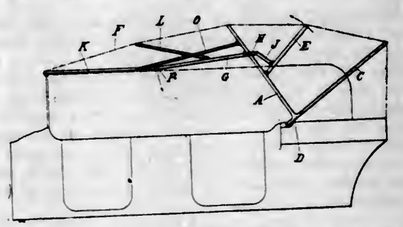
1. A cable support comprising a cable receiving loop adapted to extend transversely beneath a supporting wire, a hook on one end portion of said loop, an arm extending laterally from said hook, a hook on the other end portion of said loop, said hooks facing different directions and being adapted to be hooked around said wire from opposite sides thereof, the last named hook being adapted to coöperate with said arm and said wire to lock the first named hook upon said wire.

1,349,044. CAN-BODY-SIDE-SEAM-SOLDERING MACHINE. JULIUS BRENZINGER, Fairfield, Conn., assignor to The Max Ams Machine Co., Bridgeport, Conn., a Corporation of New York. Filed Jan. 31, 1919. Serial No. 274,194. 13 Claims. (Cl. 113—61.)



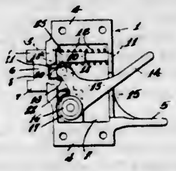
1. In a machine of the character described, the combination, with means for applying solder to the side seam of a can body in transit, of means for advancing said can body which at the same time yieldingly engages the same at each end thereof to prevent rotation during advancing movement.

1,349,045. CAPE CART-HOOD FOR USE ON MOTOR-VEHICLES. MAX BUCH, Birmingham, England, assignor, by mesne assignments, to Edwards Corporation, Jackson, Mich., a Corporation of Michigan. Filed May 28, 1914. Serial No. 841,627. 3 Claims. (Cl. 296—116.)



2. In a vehicle top, a side arm or standard adapted for pivotal connection with the vehicle body, an outrigger bow arm, a link member pivotally connected respectively to the outrigger bow arm and said side arm, a second link member pivotally connected to said side arm or standard, a rear auxiliary bow arm pivotally connected to said side arm, said second link member having an extension connected with said rear auxiliary bow arm, and means connecting said second link member with the outrigger bow arm.

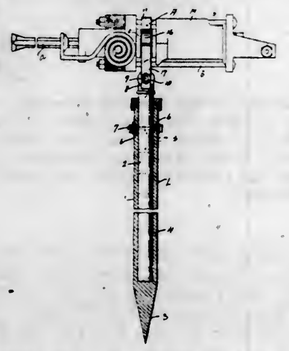
1,349,046. SASH-LOCK FOR RAILWAY-CAR WINDOWS. EDWARD F. CHAFFEE, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Jan. 12, 1918. Serial No. 211,554. 8 Claims. (Cl. 292—169.)



1. A sash lock comprising two parts, one a casing having a recess opening through its rear face, and the other a bolt supported in the casing, the casing being formed with a guide for the bolt extending transversely of said

recess and an operating member placeable in and removable from the casing through said open side and being detachably mounted in the recess and having means engaging the bolt to actuate the bolt and attachable to and detachable therefrom upon movement of the lever through the open side of the recess, said member also having means for interlocking with one of said parts upon movement of the operating member in one direction at an angle to its movement into and out of the recess, to normally prevent detachment of said member from the casing, substantially as and for the purpose described.

1,349,047. SUPPORT FOR HAMMER-MACHINE DRILLS. JOHN H. COCKS, Morenci, Ariz. Filed Jan. 31, 1920. Serial No. 355,436. 4 Claims. (Cl. 255—52.)



1. A support for a jack hammer machine drill comprising a supporting leg, a substantially U-shaped saddle having its intermediate portion arcuate to receive the machine, the side arms of the saddle extending in a direction toward the support, a second substantially U-shaped saddle having its intermediate portion arcuate to embrace the machine at a point opposite to the intermediate portion of the first-named saddle, the arms of the second-named saddle overlying the arms of the first-named saddle, and means for clamping the arms of both of the saddles to the leg.

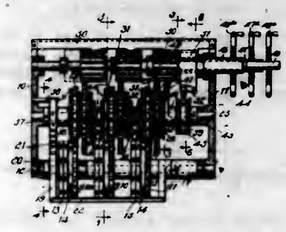
1,349,048. FIRE-EXTINGUISHER FOR OIL-TANKS AND THE LIKE. ISAAC N. COOPER, Fort Worth, Tex. Filed Dec. 8, 1919. Serial No. 343,410. 4 Claims. (Cl. 220—88.)



2. A fire-extinguishing apparatus comprising a hood placed on a vessel containing inflammable material and having communication therewith, means for permitting air to flow in said vessel, a vertical shaft journaled in said hood, one or more sets of fan blades rigid with said shaft, means for driving said shaft, and a pipe connected to said hood for conveying away the draft created by said fan blades.

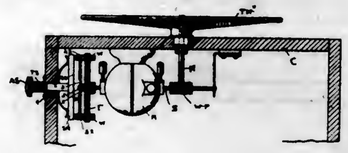
4. A fire-extinguishing apparatus in combination with a tank containing an inflammable material and provided with a cone-shaped cover having an opening at the apex thereof, means for spacing said cover from the edge of the tank, a hood mounted on said cover and covering said opening, a discharge pipe connected to said hood, and means for creating a suction draft in said hood.

1,349,049. REGISTER. WILLIAM J. CRUMPTON, Evanston, Ill., assignor to William R. Heath, Buffalo, N. Y. Filed Oct. 31, 1913, Serial No. 798,446. Renewed Dec. 26, 1919. Serial No. 347,633. 25 Claims. (Cl. 235—60.)



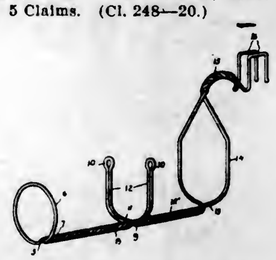
2. A totalizer comprising a plurality of figure wheels and differential mechanism adapted to move the units wheel one step by a series of delayed carrying operations when the highest figure wheel crosses the zero point.

1,349,050. FRICTIONAL GOVERNOR. WILLIAM W. DEAN, Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y., a Corporation of New York. Filed June 2, 1919. Serial No. 301,171. 9 Claims. (Cl. 74—45.)



7. In a friction governor, in combination with a rotatable shaft, of a reed spring secured to an end of the said shaft, and having its free end extending radially from the said supporting shaft, a centrifugal weight secured to the said reed spring, the said weight being so disposed as to be moved by the power of centrifugal force when the said shaft is rotated to flex the supporting reed spring, and a stationary friction disk having a face adapted to make frictional contact with the said reed spring when flexed.

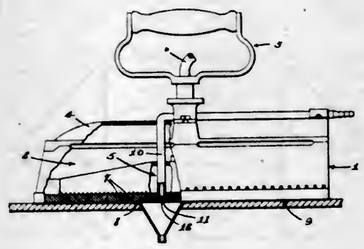
1,349,051. NURSING-BOTTLE HOLDER. OSCAR DULAC, Woonsocket, R. I. Filed Feb. 21, 1920. Serial No. 360,272. 5 Claims. (Cl. 248—20.)



1. A device of the class described formed from a single strand of wire, loops at each end, vertically extending arms midway between the loops, and a twisted portion forming a hook.

1,349,052. SADIRON. SAMUEL ELMAN, Syracuse, N. Y. Filed Apr. 6, 1917. Serial No. 160,097. 1 Claim. (Cl. 68—26.)

A sad iron including a hollow body having a heating chamber therein, and a perforation opening through the ironing face of the body and into the chamber, and a pipe extending through the hollow body and the chamber and having its lower end secured in said opening, the

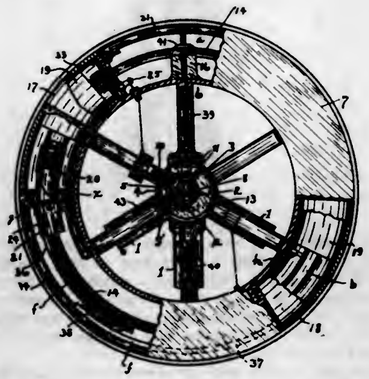


upper end of the pipe extending outside of the hollow body for connection to a steam supply, substantially as and for the purpose described.

1,349,053. NON-METALLIC RESISTANCE ELEMENT AND PROCESS OF MAKING SAME. ALEXANDER L. FEILD, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Continuation of application Serial No. 266,703, filed Dec. 14, 1918. This application filed June 16, 1919. Serial No. 304,634. 18 Claims. (Cl. 219—76.)

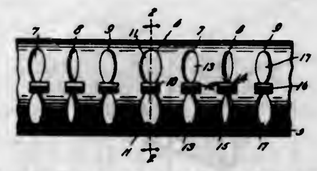
2. An electric resistance element containing a compound of a metal of the titanium-zirconium group, and a refractory oxid, said element having a substantially zero temperature resistance coefficient.

1,349,054. ENGINE. ALBERT C. FISCHER, Kansas City, Mo. Filed Feb. 15, 1917. Serial No. 148,878. 10 Claims. (Cl. 123—43.)



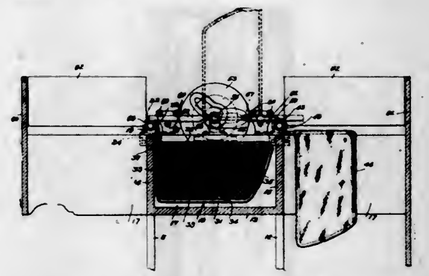
1. In an engine, a support, a tire axially mounted on the support, a ring gear having bearings within the tire, radially disposed shafts provided with gears for engaging the support and ring gear, a cylinder within the tire circumscribing the ring gear, a tubular piston arranged for longitudinal reciprocation within the cylinder and circumscribing the ring gear, and a clutch connected with the piston for engagement with the ring gear to move the latter longitudinally for actuating said radially disposed shafts.

1,349,055. TIRE-TREAD. WESLEY N. FORBES, Dartmouth, Nova Scotia, Canada. Filed June 27, 1918. Serial No. 242,281. 1 Claim. (Cl. 152—14.)



A tire including a casing having raised elements on its tread, said elements extending transversely of the casing, said elements consisting of elongated semi-cylindrical ribs extending circumferentially of the casing and being spaced apart, webs extending from the sides of said ribs, said webs being substantially elliptical and having increased thickness at their ends, whereby the elements will engage the road bed throughout their entire length, while the elliptical construction of the webs provides maximum engaging surfaces around the edges of the webs to hold the tire casing from slipping or skidding.

1,349,056. FILTER. PETER C. FORRESTER, West Tacoma, Wash. Filed Mar. 22, 1919. Serial No. 284,495. 12 Claims. (Cl. 210—196.)



1. A filtering apparatus, comprising a reservoir, a filtering member mounted adjacent said reservoir, means for moving said filtering member into and out of said reservoir, means for straining the liquid through said filtering member when in said reservoir, and means for drying the cake formed on said filtering member when out of said reservoir.

1,349,057. POWDER-PUFF. HARVEY E. FRY and WALTER O. KEITER, Lockport, N. Y. Filed Mar. 28, 1919. Serial No. 285,716. 1 Claim. (Cl. 15—72.)

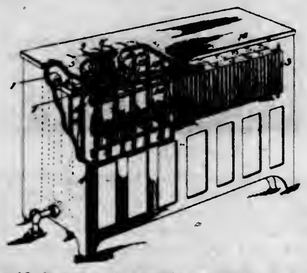


A device of the class described including a disk of chamois, a substantially circular puff of wool affixed to each surface of the disk and concentric therewith, and a band secured between the disk and one of the puffs and extending diametrically across said puff to form a finger receiving loop, the ends of the band being detachably connected.

1,349,058. HEAT-REGULATING MEANS. WESTON M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed July 10, 1916. Serial No. 108,492. 8 Claims. (Cl. 257—136.)

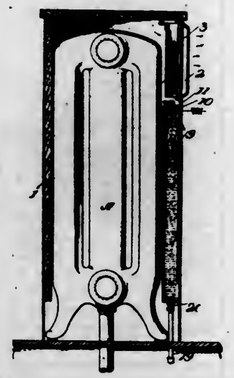
1. In combination, a radiator casing provided with one or more dampers, indicating means and a scale graduated

to indicate amounts to heat associated with said indicating means, and damper-operating means operatively connected with said indicating means and constructed



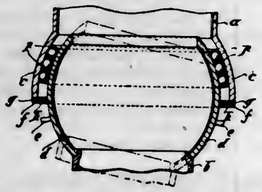
to move said dampers to supply amounts of heat in conformity with the indications of said first-named means on said scale.

1,349,059. RADIATOR-CASING IN COMBINATION WITH HUMIDIFYING DEVICES. WESTON M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed July 24, 1916. Serial No. 110,958. 16 Claims. (Cl. 257—138.)



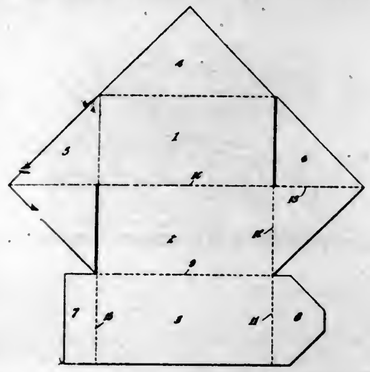
3. A radiator casing provided with an air-outlet opening in a side wall thereof, a vaporizing pan in said side wall below said opening, a damper for said opening, a damper for controlling the escape of vapor from said pan, and a common controlling means for said dampers.

1,349,060. WATER AND PRESSURE TIGHT BALL-JOINT. FRIEDRICH GALL and GEORG STOLLE, Kiel, Germany. Filed May 20, 1914. Serial No. 839,706. 15 Claims. (Cl. 61—71.)



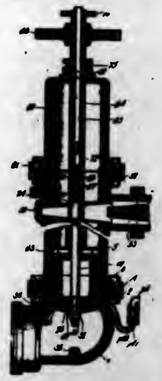
1. A joint for the ends of members of diving armor comprising partial spherical portions on the members partially enveloping one another and packing rings of sinuous form engaging the outer surfaces of the inner spherical parts.

1,349,061. SAFETY-ENVELOP. MARY R. GEYER, Pittsburgh, Pa. Filed Sept. 6, 1919. Serial No. 322,057. 1 Claim. (Cl. 229—75.)



An envelop comprising two body portions folded upon each other, one body portion having a flap folded against the other, and each of said body portions having a triangular flap at one end thereof, said flap being folded to close the end of the envelop and against the outer surfaces of both of the body portions.

1,349,062. MEANS FOR REMOVING FIRE-HYDRANT VALVES WHILE UNDER WATER-PRESSURE. DAVID GOLDBERG, Chicago, Ill. Filed Dec. 20, 1915. Serial No. 67,841. 5 Claims. (Cl. 137—13.)



1. In combination with a high pressure hydrant including a valve casing, a valve seat in said casing and threaded thereonto, a valve, and a standpipe attached to said casing, an auxiliary valve adapted to be secured to the upper end of said standpipe, and means for engaging said valve whereby said valve seat and said valve may be withdrawn above said auxiliary valve.

2. For use with a high pressure hydrant including a valve casing, a valve seat in said casing and threaded thereonto, a valve, a standpipe, and a sectional valve spindle, an upper casing, an auxiliary valve adapted to be interposed between said upper casing and said standpipe, means for disengaging said valve seat from said valve casing, and means engaging said valve spindle for withdrawing said valve and valve seat above said auxiliary valve.

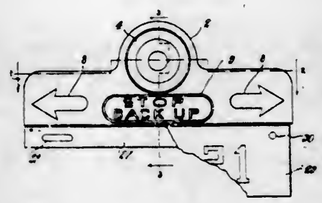
3. For use with a high pressure hydrant, including a valve casing, a valve seat in said casing, and threaded thereonto, a valve, a standpipe, and a sectional valve spindle, an upper casing, an auxiliary valve interposed

between said casing and said standpipe subsequent to removal of the upper valve spindle section, means extending through said standpipe and in engagement with said valve seat for disengaging the latter from said valve casing, and means for withdrawing said valve and valve seat above said auxiliary valve, said first and second named means being manually operated independently of each other.

4. For use with a high pressure hydrant including a valve casing, a valve seat in said casing and threaded thereonto, said valve seat being provided with a plurality of spaced upright lugs, a valve, a sectional valve spindle and a standpipe, an upper casing, an auxiliary valve secured to said upper casing and adapted to be secured to said standpipe, means adapted to engage the lugs of said valve seat to remove the same from the valve casing, and means engaging the lower section of the said valve spindle for withdrawing the valve and seat above said auxiliary valve, substantially as described.

5. For use with a high pressure hydrant including a valve casing, a valve seat in said casing and threaded thereonto, said valve seat being provided with a plurality of spaced upright lugs, a valve, and a standpipe, an upper casing, a gate valve secured to said upper casing and adapted to be secured to said standpipe, a tube having means for engaging said valve seat to remove the same from the valve casing, and means inserted through said tube for withdrawing the said valve and seat above said gate valve, substantially as described.

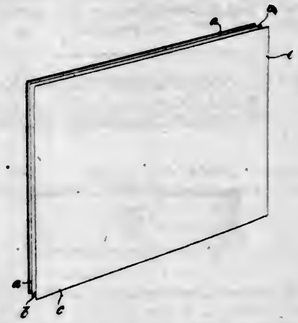
1,349,063. AUTOMOBILE-SIGNAL. NORMAN Y. GORDON, Rochester, N. Y., and JOHN HODGES, Detroit, Mich. Filed Feb. 4, 1920. Serial No. 356,256. 1 Claim. (Cl. 40—132.)



A signal for the purpose described, comprising a casing with a cross partition, a tail light in the upper compartment thus formed, a light in the lower compartment, the floor of the lower compartment having an inclined opening to throw the light rays onto the number plate below said casing, upright partitions in said casing, lights in the end compartments thus formed, arrow-shaped openings at the front of the casing, transparent material over said openings, and means for controlling said lights to illuminate the license plate.

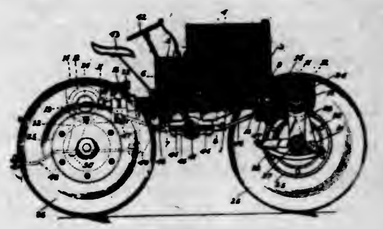
1,349,064. SCREEN FOR CINEMATOGRAPH-PICTURES AND THE LIKE. FRANK HEALE, Putney, and GEORGE WALLACE BRYANT, Southsea, England. Filed Jan. 30, 1919. Serial No. 274,140. 2 Claims. (Cl. 88—24.)

1. A screen for cinematograph pictures and the like comprising a plurality of surfaces on which the picture is simultaneously projected from a single projector, and on which the picture is simultaneously viewed by the audience, said surfaces consisting of a back screen having its front surface suitably prepared for the reception of the projected image, and at least one veiling screen of a material having the qualities of fine mesh netting stretched



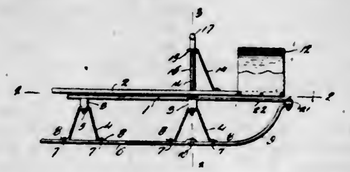
completely over parallel to and fixed in close proximity to the back screen, for the purposes set forth.

1,349,065. TRACTOR. HORACE HOUSE, Rayl, Calif. Filed Apr. 14, 1919. Serial No. 289,784. 5 Claims. (Cl. 180—50.)



1. A tractor comprising a main longitudinal housing having a power plant thereon, transverse housings positioned at the ends of the main housing transversely and centrally thereof, vertical pins on the ends of the main housing turnably mounted in the transverse housings, shafts in the same operatively connected to wheels mounted thereon, a longitudinal drive shaft in the main housing in driving relation with the power plant and with the transverse shafts to turn the wheels, and universal joints on the drive shaft in vertical alinement with the vertical pins on the main housing.

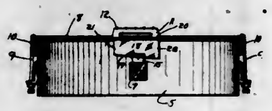
1,349,066. SLED. JAY B. JORDAN, East Rochester, N. Y. Filed Nov. 11, 1919. Serial No. 337,294. 2 Claims. (Cl. 280—22.)



1. In a device of the class described, the combination of a pair of rear runners pivotally connected to a pair of forward runners, means provided for moving said forward runners upon their pivots, a sled body, a pair of inverted V-shaped braces formed of resilient material, said braces connected to said body, lips provided at the

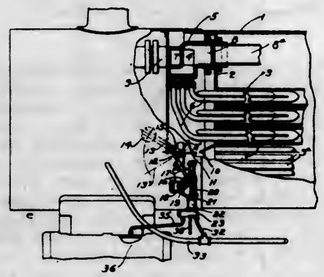
terminal of said braces, one pair of said terminals of said braces connected to the forward runner and the other pair of said terminals connected to said rear runners, whereby said forward runners will normally be held in alinement with said rear runners.

1,349,067. COÖPERATING MEANS FOR BANJO-HEADS. LOUIS L. KENYON, Iowa City, Iowa. Filed May 28, 1920. Serial No. 384,994. 6 Claims. (Cl. 84—270.)



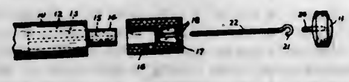
6. The combination with a banjo, or analogous musical instrument embodying a rim support, a parchment head therefor, a neck, a strut bar within said rim and providing a continuation of said neck, and a string bridge seated on said head; of a base member supported by said strut bar and having a transverse open slot providing an inclined bottom face; and a wedge member having a straight edge upper face and an inclined underneath edge face, the said pair of members being so adjustably associated and interposed between said head and said strut bar that the stright edge face of the wedge piece transversely extends in direct engagement with the underneath face of said head at a position substantially to the rear of said bridge element while its inclined edge face is slidingly supported within said slot, substantially as described.

1,349,068. DAMPER. JOSEPH A. KEYES, New York, N. Y., assignor to Locomotive Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 12, 1918. Serial No. 216,787. 4 Claims. (Cl. 122—480.)



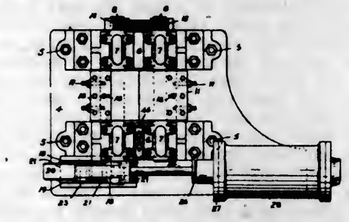
1. In apparatus of the class described, the combination of a boiler having flues, a superheater with a portion of its heating surface located in the flues, a compartment into which the flues discharge gases, a damper controlled opening in the wall of said compartment, a steam chest, a blower pipe, means to operate the damper comprising a cylinder, and a valve subject to opposing pressures from the steam chest and the blower pipe respectively controlling the admission of steam to and its exhaust from said cylinder.

1,349,069. CUE-TIP. STANISLAW KOSINSKI, Schenectady, N. Y., assignor of one-half to Frank A. Taberski, Schenectady, N. Y. Filed June 3, 1920. Serial No. 386,339. 6 Claims. (Cl. 46—9.)



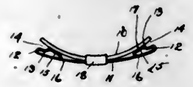
1. In a cue, the combination of a cue body having a dowel at one end provided with an axial threaded opening, a sleeve on the dowel, a tip, means forming an eye on the tip, a pin which extends through said sleeve and has a hook on one end engaging with said eye, the other end of said pin being threaded into said opening, and connecting the pipes axially to position the longitudinal edges relative to said dies, and means for actuating said rotary support-move axially thereof.

1,349,070. APPARATUS FOR DRESSING SKELP. JOSEPH W. LATSHAW, Pittsburgh, Pa., assignor to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 10, 1919. Serial No. 289,165. 3 Claims. (Cl. 153—44.)



1. Apparatus for dressing the ends of bent pipe skelp comprising oppositely facing dies having opposite end dressing cavities, means for causing a relative approach of said dies, supporting means on which the bent skelp are moved lengthwise into and out of position to be operatively engaged by said dies, a stop for locating the ends of the bent skelp relative to said dies preparatory to the end dressing operations, rotary supporting means for turning the pipes axially to position the longitudinal edges relative to said dies, and means for actuating said rotary supporting means.

1,349,071. COLLAR-HOLDER. FRANK J. LE CLAIR, Attleboro, Mass., assignor to Freeman-Daughaday Co., Chartley, Mass., a Corporaton of Massachusetts. Filed June 2, 1920. Serial No. 386,022. 2 Claims. (Cl. 24—81.)



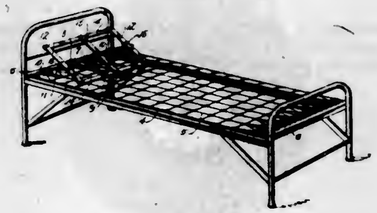
1. A collar holder comprising a pair of oppositely disposed coöperating gripping bars connected together at their middle portion, one of said bars having both of its opposite ends folded back upon itself for a short distance then offset toward the opposite bar to provide an entering mouth, said offset portion extending along for a short distance normally in contact with said inner bar, said engaging surface being roughened and the extremity of this folded end being rounded backwardly to prevent piercing and tearing the fabric upon being removed therefrom.

1,349,072. HEADREST. FANETTE OKELL LINES, Mount Pleasant, Iowa. Fled Oct. 24, 1919. Serial No. 333,052. 11 Claims. (Cl. 5—15.)



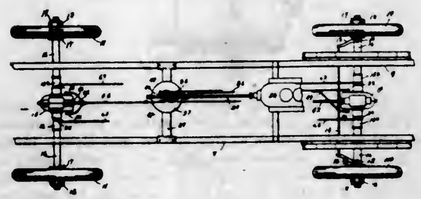
1. In combination, a pillow, a supplemental support arranged thereon and comprising means for maintaining the head of the user in position on said pillow with the face out of engagement with said supplemental support and said pillow, and means for detachably securing said supplemental support in position on said pillow.

1,349,073. HEADREST. MORRIS LIPPS, New York, N. Y. Filed Jan. 31, 1918. Serial No. 214,653. 4 Claims. (Cl. 5—43.)



1. In combination with the frame of a cot or bed, a spring supported by the frame, a crank shaft having its ends pivoted at one end of the frame and its transverse portion extending from side to side of the frame so that the transverse portion is movable above and toward and from the bed spring, a head-rest frame pivotally supported upon the transverse portion of the crank shaft, a spring bar secured at one end to the bed frame and having a free end, and a stop lug carried by the free end of the spring bar with which an edge portion of the head-rest frame engages to yieldably hold the head-rest frame in a desired adjusted relation whereby the head-rest frame is adapted to yield with the yield of the bed spring.

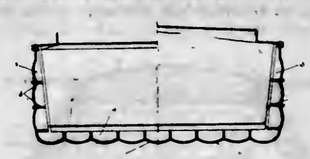
1,349,074. TRANSMISSION MECHANISM. SYVER LOE, Minneapolis, Minn. Filed May 7, 1919. Serial No. 295,429. 7 Claims. (Cl. 180—18.)



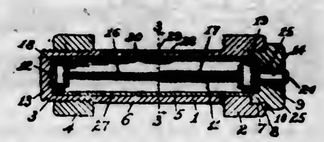
1. In a motor-propelled vehicle, the combination with an axle casing and traction wheels journaled on the ends thereof, of a motor on said vehicle, a driving axle mounted in said casing and extending therethrough to points outward of said traction wheels, clutches applied to the outer ends of said axle and to the outer sides of the wheel hubs, and transmission mechanism connecting said engine to said driving axle, and a steering device having connections for independently or simultaneously rendering said two clutch devices operative.

1,349,075. CONSTRUCTION OF VESSELS OF REINFORCED CONCRETE. PIERRE MARIE LORTON, Paris, France. Filed Aug. 11, 1917. Serial No. 185,802. 6 Claims. (Cl. 114—65.)

1. The improved construction of the hulls of vessels of reinforced concrete, which consists in forming the walls of elliptical vaultings having their convexity turned toward the direction whence the pressure is exerted, and having their generating lines arranged along the longitudinal axis of the vessel, said vaultings being connected together by longitudinal ribs against which they are buttressed.

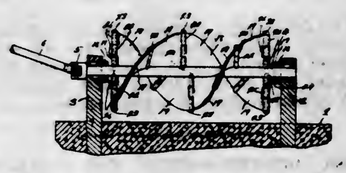


1,349,076. BEARING-LUBRICATING DEVICE. KENT E. LYMAN, Cleveland, Ohio. Filed Jan. 17, 1920. Serial No. 352,138. 5 Claims. (Cl. 64—24.)



1. In a lubricating bearing bolt, the combination of a hollow body, the hollow body having an opening through its wall, a receptacle for containing a lubricant, the receptacle being adapted to fit into and be removed from said hollow body, and the receptacle being provided with a filling opening opposite the opening in the wall of the body, substantially as described.

1,349,077. PROPELLING MEANS FOR MOTORS. PRESLEY B. MCCHESNEY, Princeton, Ky. Filed Aug. 6, 1918. Serial No. 248,534. 1 Claim. (Cl. 170—133.)

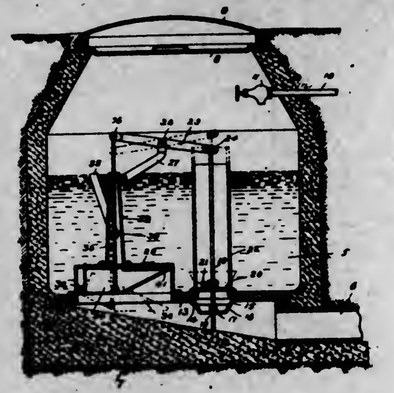


In a current water motor, the combination with a base, of a screw propeller having a shaft mounted in bearings of the base, said propeller comprising a pair of detachable spirally arranged propeller blades radially disposed in relation to the shaft, said blades each comprising a plurality of detachable removable sections, said sections having their ends radially disposed in relation to the shaft center, the ends of said sections being provided with interengaging rolls and notches and radially disposed bolts passing through said rolls and having their inner ends detachably secured in the shaft.

1,349,078. SEWER-FLUSHING MECHANISM. ROBERT A. MADDOX, Los Angeles, Calif. Filed Nov. 1, 1919. Serial No. 334,951. 1 Claim. (Cl. 182—4.)

A sewer flushing system comprising a well, a sewer pipe leading to the bottom of said well, a false bottom in said well, a valved opening in said false bottom, said false bottom being also provided with an opening, a housing secured to the upper face of said false bottom and covering said opening, a tiltable pan or bucket pivotally mounted within said housing, said tilting pan or bucket being above the upper face of said false bottom when in a normal position, a tubular standard extending upwardly from said housing, an overflow pipe leading to said tubular

standard, an arm secured to the upper end of said tubular standard, a lever pivotally secured to said arm midway of its ends, an actuating rod pivotally secured to one end of said lever, the free end of said rod being pivotally



secured to said pan or bucket, and a valve actuating rod secured to the other end of said lever and to the valve controlling said valve opening, whereby when said tilting bucket is empty said valve will overbalance the same and when said bucket is filled it will overbalance the valve.

1,349,079. ANGULAR COIL-SPRING. SIDNEY L. MARKHAM, Jamestown, N. Y. Filed Nov. 5, 1918. Serial No. 261,278. 2 Claims. (Cl. 267—61.)



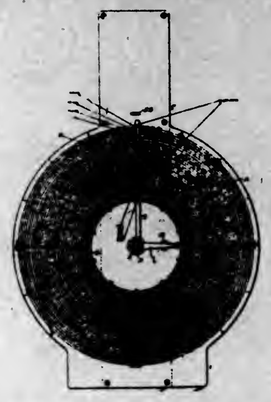
1. A torsional spring composed of a series of contacting coils closely wound under tension, each coil consisting of a series of straight sides joined by bends, the bends of adjacent coils being uniformly offset to maintain the general cylindrical shape of a coiled spring.

1,349,080. IGNITION-SWITCH. CARL T. MASON, East Orange, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Aug. 1, 1917. Serial No. 183,975. 10 Claims. (Cl. 200—164.)



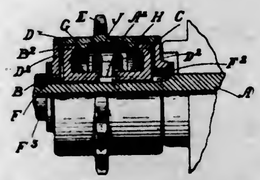
1. In a switch of the class described, the combination of a base having contact terminals mounted thereon and a central guiding piece, a switching member consisting of a series of switch blades arranged on a central bearing stud and a stop arm carried on the bearing stud adjacent the switch blades, a cover for the switch base and a removable handle adapted to pass through the cover and to engage the switching member, said central guiding piece being adapted to receive said central bearing stud to assist said handle in operating the switching member, said cover carrying means coacting with the stop arm to define the position of the switch handle as described.

1,349,081. INTEREST-CALCULATOR. CHARLES S. MIDDLETON, Blakely, Ga. Filed June 11, 1918. Serial No. 239,466. 8 Claims. (Cl. 235—61.)



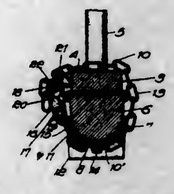
3. In a device for calculating interest, a chart having a series of concentric lines of figures indicative of the principal sum, a radial arm pivoted at the center of the circle of the series and having figures indicative of time terms in a problem and coördinate with respective principal series, and a scale member operative by said term arm for giving the interest on a given sum for a given term.

1,349,082. TRANSMISSION SHOCK-ABSORBER. EDWARD CHARLES MIDDLETON, Coventry, England, assignor to Triumph Cycle Company, Limited, Coventry, England. Filed Mar. 17, 1920. Serial No. 366,462. 3 Claims. (Cl. 74—29.)



1. In a transmission shock absorber the combination of a shaft of non-circular cross-section, a sleeve surrounding said shaft, inclines at one end of said sleeve, inclines of the opposite sense at the other end of said sleeve, two coupling members each engaging one set of said inclines and adapted to slide on said shaft, bearings for said sleeve on said shaft, and spring pressure means engaging said coupling members and self-contained within said bearings, substantially as set forth.

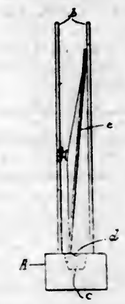
1,349,083. TRACTION ATTACHMENT FOR AUTOMOBILES. JOSEPH O. MOOK, Kankakee, Ill. Filed Apr. 7, 1919. Serial No. 288,127. 1 Claim. (Cl. 152—14.)



The combination with a traction element for a vehicle wheel, of means for securing said traction element to a

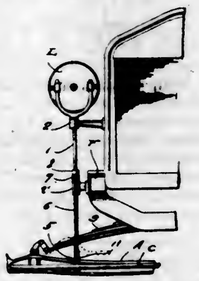
wheel, comprising a locking plate having a hook formed adjacent one end and a plurality of spaced notches formed longitudinally thereof, a locking lever having a transverse projection adjacent one end for adjustable engagement with said notches, and a chain the links at one end of which can be adjustably engaged with said hook, the other end of said chain being connected with said locking lever intermediate the ends thereof, the notches of said locking plate being spaced apart a distance less than the length of the links of said chain.

1,349,084. KETTLE-COVER DRAINER AND HOLDER. LENA C. MOORE, Binghamton, N. Y. Filed Aug. 28, 1919. Serial No. 320,349. 2 Claims. (Cl. 65—65.)



2. In a kettle cover drainer, a metallic base, having an oval cup shaped recess in its upper surface, vertical bent wire supports, mounted on the upper surface of the base on either side of the cup, a mouth extending from the drain cup outward on the upper surface of the base.

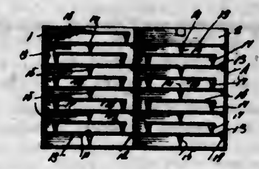
1,349,085. DIRIGIBLE HEADLIGHT. HAROLD E. MOUSE, Elkins, W. Va. Filed Jan. 10, 1920. Serial No. 350,606. 6 Claims. (Cl. 240—62.)



1. In a headlight structure for autos, the combination with a bearing on the body, a lamp carrying post rotatably mounted in said bearing, and movable elements connected with the post for rendering it dirigible; of a collar slidable on the post beneath said bearing, means for locking the collar to the post and engaging it with said bearing when the collar is raised, and connections between the collar and one of said elements for interrupting the dirigibility of the structure when the collar is raised.

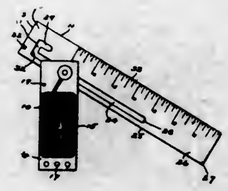
1,349,086. METAL PRECIPITATOR AND SEPARATOR. JOHN ANDREW MURPHY, Pueblo, Colo. Filed Aug. 15, 1919. Serial No. 317,762. 2 Claims. (Cl. 83—68.)

1. A metal separator comprising a reservoir divided into a plurality of communicating compartments, vertically spaced cleats secured in each compartment, plates supported on the cleats and provided with central openings having depending prongs formed adjacent thereto, and small plates arranged intermediate the plates sup-



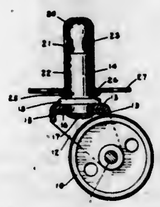
ported on the cleats, said smaller plates provided with legs adapted to engage the tops of the other plates and said depending prongs adapted to engage the surface of said smaller plates.

1,349,087. SQUARE AND BEVEL STRUCTURE. FREDERICK CONRAD NIEBLING, Southington, Conn. Filed June 4, 1919. Serial No. 301,684. 3 Claims. (Cl. 33—117.)



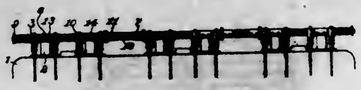
1. A square and bevel structure comprising a handle part of appreciable thickness and provided with a transversely directed slot and a blade part of sheet material fitting the said slot, a pair of positioning pin devices crossing the said slot and positioned in spaced relation along a line directed diagonally of the handle part, and the said blade part being provided with a set of slots for engaging with the said positioning pin devices for positioning the parts for use as a square comprising one slot for engaging with one of the said devices and a second slot, disconnected from the said one slot, for engaging with the other of the said devices.

1,349,088. CASTER. WILLIAM H. NOELTING, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Apr. 21, 1919. Serial No. 291,446. 1 Claim. (Cl. 16—76.)



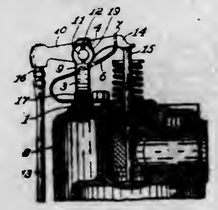
A caster having a stem, a socket for receiving the stem with its lower end turned out to form an outwardly extending flange and with an annular groove on the upper side of the flange and projecting upwardly and outwardly, and a track plate surrounding the lower part of the stem with an inwardly and downwardly extending flange fitting in said groove in the socket flange.

1,349,089. SPRING-DAMPER FOR VALVE MECHANISM. EMIL W. OHRT, Reinbeck, Iowa. Filed June 19, 1919. Serial No. 305,265. 2 Claims. (Cl. 123—90.)



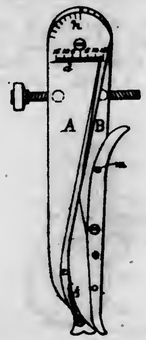
2. In combination with an engine cylinder block having a transversely-orificed standard, a rocker-arm positioned in contact with said standard and transversely orificed in alinement therewith, a pintle loosely mounted in said alined orifices and projecting therebeyond, and a helical compression spring mounted on the projecting part of said pintle, secured at one end, and bearing yieldingly against the abutting part of said rocker-arm to prevent side-play thereof.

1,349,090. SPRING DAMPING MEANS FOR VALVE MECHANISM. EMIL W. OHRT, Reinbeck, Iowa. Filed July 31, 1919. Serial No. 314,448. 2 Claims. (Cl. 123—90.)



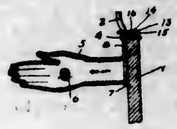
2. The combination with supporting-means, and a rocker-arm medially mounted thereon, of a spring-device comprising integrally-connected spring-arms extending from each other at an angle and respectively shaped to bear upon and engage different parts of the rocker-arm to exert thereon resilient tensions in different directions.

1,349,091. CALIPER OR INDICATING GAGE. FRANK E. ORMSBY, Chicago, Ill. Filed Dec. 6, 1918. Serial No. 265,591. 4 Claims. (Cl. 33—148.)



1. In caliper indicating gages, two legs of different lengths, pivotally connected to each other and having scales at the pivotally connected ends thereof, each leg having a point member pivotally connected thereto at the free end thereof, one of said legs having a secondary scale and the point member pivotally connected thereto having an indicator extension adapted to move over said secondary scale.

1,349,092. AUTO-SIGNAL. ED ORTMAN, Kokomo, Ind. Filed Feb. 7, 1920. Serial No. 356,900. 4 Claims. (Cl. 116—52.)



1. The combination with a vehicle body having a wind shield support thereon, of a signal, means for suspending the signal from the wind shield support, a lever attached to the signal for moving said signal toward or from the side of the vehicle body, a rod attached to the free end of said lever, a block through which said rod passes, means for retarding the lengthwise movement of said rod, and means for removably clamping the block on parts of the vehicle body.

1,349,093. SCAFFOLD. MICHAEL OSTROSKI, Coniston, Ontario, Canada. Filed Mar. 14, 1918. Serial No. 222,419. 3 Claims. (Cl. 304—10.)

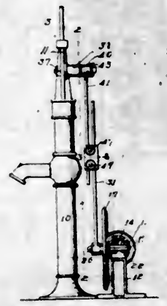


1. A sectional scaffold including similar and interchangeable upright units, each of which is provided at the bottom with a flat foot plate and at the top with a corresponding head plate, fastening members connecting the foot plate of one upright unit to the head plate of another upright unit, brackets projecting from the uprights, a cross head constructed to engage one of the brackets, and a platform mounted upon the cross head.

1,349,094. PUMP-JACK. ARCHIE EUGENE OWEN, Malcom, Iowa. Filed Jan. 6, 1917. Serial No. 140,985. 1 Claim. (Cl. 74—14.)

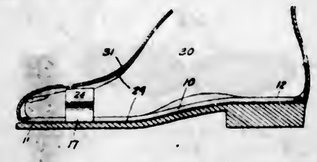
In a device of the class described, a base having a pair of bearing members thereon, shafts rotatably mounted in said bearings, said shafts being at right angles to each other, gear wheels fixed to each of the shafts on their adjacent ends and in mesh with each other, whereby rotation of one imparts rotation to the other, a pulley wheel on the free end of one of the shafts, one of said gear wheels being provided with a web having formed therein a radially elongated slot, a shaft extended through said slot having a collar fixed thereon intermediate of its ends, a screw-threaded portion on one end of said last shaft adapted to receive a nut, the parts being so arranged that the collar rests against one side of the web and the nut against the other, whereby the shaft may be locked in said elongated slot against movement therein, an upwardly extending arm having a hub with an opening therein formed at its lower end, said arm being adapted

to be pivotally connected with the free end of said last shaft, a pump rod operatively connected with a pump mechanism, a second arm extending downwardly operatively connected with the upper end of the pump rod, the said arms being of sufficient length to overlap each other, means for fastening the upwardly extending arm to the



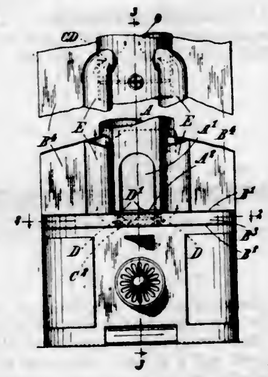
downwardly extending arm, said last means including a pair of opposite spaced plates having recesses formed in their adjacent faces, said recesses being designed to receive the edges of the arms, and means for frictionally gripping said arms between said plates in any of a plurality of positions, whereby rotation of the pulley wheel may impart reciprocating movements to the pump rod.

1,349,095. INNERSOLE. SEBASTIANO PARISI, New York, N. Y. Filed Sept. 13, 1919. Serial No. 323,467. 6 Claims. (Cl. 36—1.)



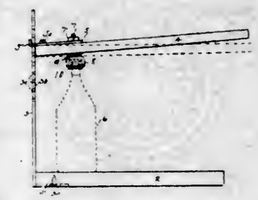
1. An inner sole, the toe portion of which is provided with a plurality of toe loops into which the separate toes of a foot are adapted to pass, and means in the toe portion of the sole for adjusting the size of said toe loops and for holding the same in position.

1,349,096. DOMESTIC HEATING AND COOKING APPARATUS. NOEL PEMBERTON-BILLING, Hertford, England. Filed July 23, 1919. Serial No. 312,853. 12 Claims. (Cl. 126—4.)



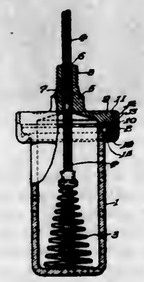
1. For a domestic stove having a fireplace and a chimney-damper, the combination of a front chamber situated in front of the fireplace opening in the stove, baffles within the chamber, a flue connecting the interior of the rear portion of the chamber with the fire space of the stove, and flues extending from the chamber into communication with the chimney above the chimney-damper, substantially as described.

1,349,097. BOTTLE-CAPPING MACHINE. EDWARD E. PHILLIPS, Syracuse, N. Y. Filed June 24, 1920. Serial No. 391,268. 3 Claims. (Cl. 226—84.)



1. In a hand capping machine, a frame comprising a base and a standard, said standard provided with a plurality of parallel slots disposed one above the other, a detachable capping lever, having a hook at one end adapted to be inserted in the different slots corresponding to the height of the bottles to be capped, a cap receiving and clenching member depending from the bottom side of the lever, and a cushion rubber washer disposed between said cup and said lever for allowing said cup to flex in different directions during the capping operations.

1,349,098. OIL-CUP. CLARENCE E. QUINTIN, Glenriddle, Pa., assignor to Leander W. Riddle, Glenriddle, Pa. Filed Mar. 12, 1920. Serial No. 365,146. 4 Claims. (Cl. 184—64.)



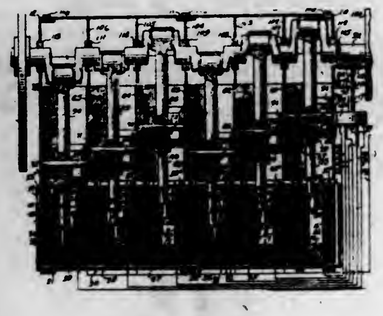
2. In an oil cup, the combination of a cup body closed throughout except at its inlet end and having thereat an exteriorly projecting and horizontally disposed annular flange, a closing cap having an annular portion conforming to and adapted to rest on said flange of the cup body, and a locking ring composed of two members at right angles to each other, one of them a horizontally-disposed member adapted to pass under said flange of the cup body and the other of them a vertically disposed member interiorly threaded, and means peripherally threaded adapted thereby to register with said last mentioned threaded member of the locking ring and operating to hold said closing cap in locked relation to the locking ring and cup body.

1,349,099. DOILY. CORABELL REDPATH, Los Angeles, Calif. Filed Dec. 2, 1918. Serial No. 264,956. 4 Claims. (Cl. 65—53.)



1. A doily construction, comprising a flexible member provided with a centrally disposed opening therein, and an adhesive abutment strip secured to said member around the opening therein.

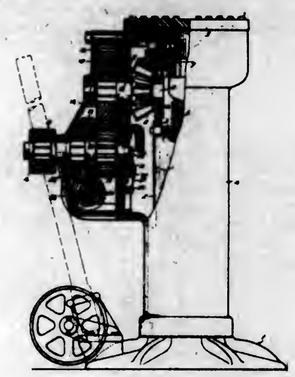
1,349,100. DYNAMO-ELECTRIC MACHINE. WILLIAM T. REYNOLDS and BRUCE A. REYNOLDS, Port Arthur, Tex. Filed May 4, 1918. Serial No. 232,558. 6 Claims. (Cl. 172—126.)



2. An electric motor comprising a plurality of solenoids, a crank shaft, piston rods connected to the crank shaft a collar formed on each piston rod, a core slidably mounted on each piston rod and adapted to engage the collar on said piston rod, and operable in an alining solenoid, and commutating means operable by the crank shaft for energising and deënergizing the solenoids.

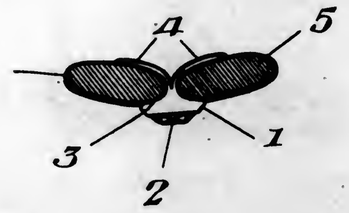
1,349,101. SELF-LOWERING LIFTING-JACK. CHARLES W. RIPSCH and JAMES C. DAWLEY, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 15, 1919. Serial No. 344,973. 15 Claims. (Cl. 254—103.)

1. In a lifting jack, a base, a movable member mounted on said base, a rotatable member to actuate said movable member, a gear connected with said rotatable member, a shaft journaled in said movable member, a pinion carried by said shaft and meshing with said gear, a second shaft journaled in said movable member, reducing gears connecting said shafts one to the other, means for rotating said second shaft, a worm gear rotatably mounted on said second shaft, means to cause said worm wheel to rotate with said second shaft when said movable member moves



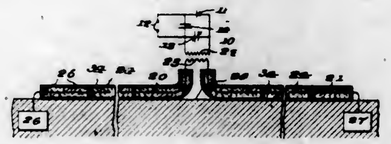
downwardly, a worm meshing with and rotatable by said worm gear, and a brake to control the rotation of said worm.

1,349,102. DENTAL ORNAMENT. ANDERSON COPIS SOLMON ROBINSON, Suffolk, Va. Filed Nov. 7, 1919. Serial No. 336,247. 1 Claim. (Cl. 63—29.)



A setting to be applied between a pair of teeth having converging surfaces to fit the teeth, and prongs disposed close together and projecting from said setting between said surfaces to pass between the teeth and bendable in rear thereof.

1,349,103. RADIOSIGNALING SYSTEM. JAMES HARRIS ROGERS, Hyattsville, Md. Filed May 2, 1917. Serial No. 165,875. 3 Claims. (Cl. 250—33.)



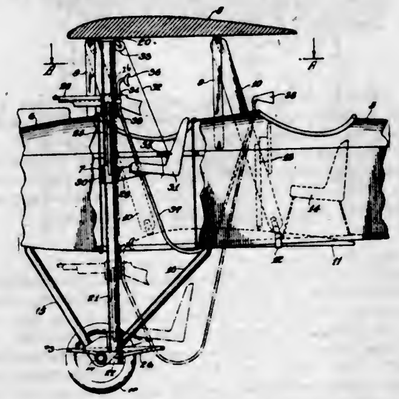
1. A radio signaling system comprising an antenna extending horizontally substantially parallel to the surface of the earth, signal instruments associated with said antenna at one end and a ground connection at the other end, and a metallic screen in intimate contact with the earth substantially throughout its length and inclosing said antenna.

1,349,104. RADIOSIGNALING SYSTEM. JAMES HARRIS ROGERS, Hyattsville, Md. Filed Jan. 17, 1918. Serial No. 212,197. 4 Claims. (Cl. 250—33.)



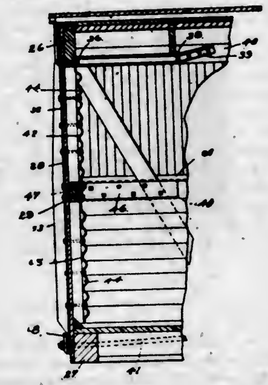
1. A radio signaling system comprising an antenna extending horizontally substantially parallel to the surface of the earth and insulated therefrom, a metallic covering inclosing said antenna but insulated therefrom and in intimate contact with the earth substantially throughout its length, signal instruments associated with said antenna, and a balancing connection on the opposite side of said instruments.

1,349,105. MILITARY AEROPLANE OR THE LIKE. OSCAR A. ROSS, New York, N. Y. Filed Sept. 14, 1917. Serial No. 191,437. 2 Claims. (Cl. 89—40.)



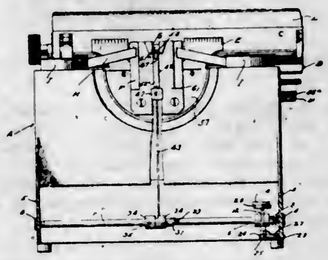
1. In a military aeroplane having a body, or car, a gun mounted thereon, a movable carriage supporting said gun, means for conveying said carriage from above to below said body or car, in combination with a system of communication, one end of which terminates adjacent the said body or car and the other end on said movable carriage.

1,349,106. FREIGHT-CAR. AUGUST G. SANDMAN, Baltimore, Md., assignor to Walter P. Murphy, Chicago, Ill. Filed May 22, 1916. Serial No. 99,022. 25 Claims. (Cl. 105—411.)



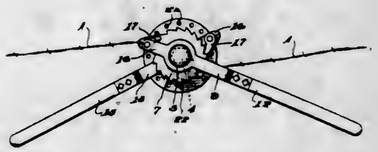
10. In a railway box car, the combination with the end framing of the car comprising corner posts and intermediate end posts, of a sheet metal sheathing on the inside of said posts formed with horizontal corrugations which terminate within the edges of the sheathing so as to leave attaching flanges for attachment to the corner posts, and means for securing said sheathing to the corner posts.

1,349,107. UNDERSCORER FOR TYPEWRITERS. ESTER M. SEALY, Fort Shafter, Hawaii. Filed Dec. 12, 1918. Serial No. 266,444. 8 Claims. (Cl. 197—113.)



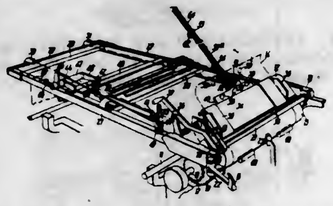
1. In underscoring means, an underscorer provided with a head at its upper end adapted to be engaged by the type head of a type bar of a typewriter upon which the underscorer is mounted when the head thereof is brought into position adjacent the platen roll of a typewriter and the type bar is operated, a stop member carried by the typewriter, a stop member secured to the underscorer and cooperating with the stop member carried by the typewriter so as to positively limit upward movement of the underscorer so as to cause movement thereof in accordance with the vertical movement of the stop member carried by the typewriter, the stop member carried by the typewriter being adjustable in accordance with adjustment of the shifting mechanism of the typewriter when shifting from one case to another.

1,349,108. WIRE-STRETCHER. CHARLES S. SHIPPEN, Tipperary, Wyo. Filed Apr. 16, 1919. Serial No. 290,437. 4 Claims. (Cl. 24—71.1.)



4. In a wire stretcher, the combination, of a spool, a pin carried by the spool and spaced from the core thereof, the wire to be stretched adapted to be threaded between said pin and core, and extending in both directions from the spool, a polygonal shaft extending through said spool, ratchets mounted upon said shaft, levers pivotally carried by the hubs of said ratchets, pawls carried by said levers and engaging said ratchets for rotating said spools upon pivotal movement of the lever, said spool including end flanges provided with a plurality of circumferentially spaced openings near their peripheries, and pins adapted to be inserted through certain of said openings for engagement with said wire upon each side of the core to prevent unwinding of the wire from said core, said shaft being detachably connected to said spool whereby the shaft, ratchet and levers may be disconnected from the spool.

1,349,109. TYPEWRITING-MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 2, 1918. Serial No. 260,811. 31 Claims. (Cl. 197—126.)



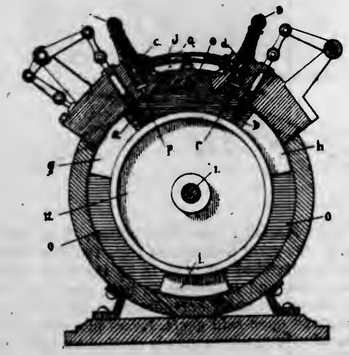
1. In a typewriting machine, the combination with a traveling carriage and a carbon-paper carriage slidable thereon, of a device upon which sheets are adapted to be grasped, a platen, means along which said device may be moved relatively to the platen, and a stop for limiting said movement to enable the automatic measuring of sections of sheets thereby.

1,349,110. TOOTHBRUSH AND PASTE-CASE. WILLIAM OGLE SNYDER, Veedersburg, Ind. Filed Apr. 2, 1920. Serial No. 370,739. 6 Claims. (Cl. 132—32.)



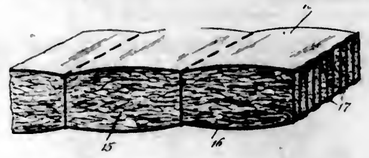
1. In a toilet article and the like, the combination with a tubular handle portion, an operating member supported thereby, and a container adapted to be positioned within the tubular handle portion, of a closure member for one end of the tubular handle portion, and a reel member rotatably supported by said closure member within said handle portion.

1,349,111. INTERNAL-COMBUSTION MACHINE. ISAAC SANTOS Y SUAREZ and ROBERTO DE AROZARENA Y MENDIVE, Habana, Cuba. Filed Oct. 4, 1919. Serial No. 328,490. 4 Claims. (Cl. 123—14.)



1. An internal combustion engine, comprising a casing provided with an annular chamber, a shaft mounted for rotation in said casing, a plurality of members secured to said shaft and adapted to traverse said annular chamber, a pair of members adapted to slide radially of said annular chamber, thereby to form an explosion chamber within said annular chamber, said explosion chamber being provided with a plurality of valve-controlled inlet and outlet passages, communicating means between one of said inlet passages and one of said outlet passages, and means for operating the slidable members and valves in proper sequence for admitting an explosive charge to said explosion chamber during the passage therethrough of one of said traversing members, and for establishing communication between the said communicating inlet and outlet passages during the passage of another of said traversing members through the explosion chamber.

1,349,112. FIBROUS PRODUCT. HOWARD F. WEISS, Madison, Wis., assignor to C. F. Burgess Laboratories, Madison, Wis., a Corporation of Wisconsin. Filed July 11, 1919. Serial No. 310,135. 11 Claims. (Cl. 92—3.)

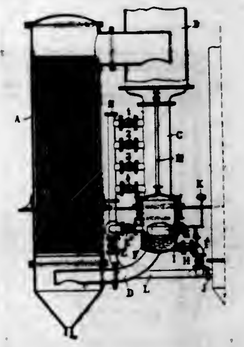


1. The process of treating redwood bark which comprises softening the bark by treatment with hot water, beating the softened bark in water to disintegrate the same and separate the fibers thereof with a minimum of breaking or cutting, washing the separated fibers to remove non-fibrous matter, and drying the washed and separated bark fibers; substantially as described.

1,349,113. PROCESS OF OBTAINING POTASSIUM AND OTHER ALKALI-METAL COMPOUNDS. ERIC HJALMAR WESTLING, Antioch, Calif. Filed Oct. 14, 1918. Serial No. 258,025. 7 Claims. (Cl. 23—22.)

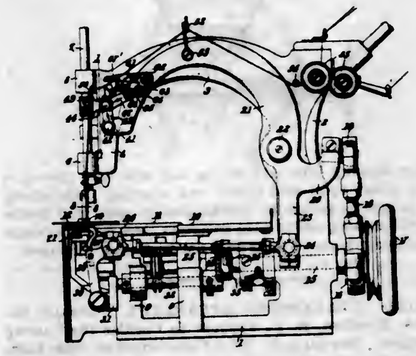
1. The process of obtaining soluble alkali metal compounds from anhydrous alkali metal containing substances which comprises heating a mixture of the substance and a heavy metal sulfate to a temperature sufficiently high to decompose the sulfate in the presence of the substance.

1,349,114. APPARATUS FOR REGULATING AND MAINTAINING A DESIRED LEVEL OF LIQUID IN EVAPORATING INSTALLATIONS. EMILE AUGUSTIN BARBET, Paris, France. Filed Mar. 26, 1917. Serial No. 157,579. 4 Claims. (Cl. 127—9.)



1. Means for regulating the liquid level in tubular evporating apparatus, comprising a tube connected with the evaporating vessel at a point below the lowest normal working level of the evaporating vessel and a plurality of valves connected to the tube at different heights, so that the level of the liquid in the tube and thus the level of liquid in the evaporating vessel will correspond with the height of the lowest of the aforesaid valves which is in the open position, a pipe adapted to receive the liquid discharged through all of said valves, and a float regulator connected to said pipe.

1,349,115. THREAD-CONTROLLING MECHANISM FOR SEWING-MACHINES. RUDOLPH BECKER, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Jan. 20, 1917. Serial No. 143,441. 14 Claims. (Cl. 112—241.)



1. In a sewing machine, in combination, a needle, a looper, a needle-bar, a needle-bar actuating lever, a thread-engaging device carried by the needle-bar, a thread-controlling device mounted on the needle-bar actuating lever for differential movement relatively to the latter, and bodily movable mechanism for controlling said differential movement.

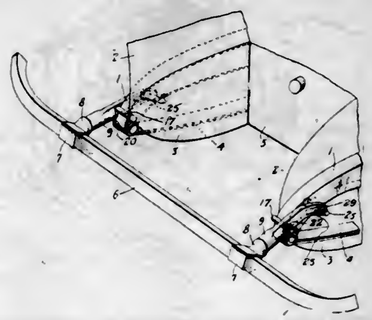
1,349,116. MULTIPLANE AEROPLANE. GIANNI CAPRONI, Milan, Italy. Filed Jan. 8, 1918. Serial No. 210,936. 1 Claim. (Cl. 244—14.)



A flying machine comprising a plurality of continuous superposed planes forming a cell structure, two fuselages arranged under the middle plane at equal distance from the longitudinal axis of the flying machine and projecting forward outside said cell structure, a car located transversely at the middle of the cell structure and projecting forward and backward outside said cell-structure, structure supports transversly arranged on said cell structure and projecting outside said cell structure and located on an imaginary plane containing the imaginary axis of said fuselages, a motor arranged at the rear end of said car, two motors respectively arranged at the front end of said fuselages, two motors respectively arranged at the projecting ends of said structure supports and propellers respectively connected to the shafts of said motors.

1,349,117. VEHICLE-BUMPER. ALBERT S. CLUCKER, New York, N. Y. Filed Aug. 13, 1917. Serial No. 185,824. 2 Claims. (Cl. 293—55.)

2. In a bumper, a bracket adapted to be positioned at one side of the frame member of the vehicle and having two openings, bolts in said openings having hooked ends adapted to engage the other side of said frame member, one of said bolts being adapted to engage the upper edge of said member and the other of said bolts being adapted to engage the lower edge of said frame member so that the points of engagement are substantially in a horizontal



line when said bracket is in operative position, one of said bolts being vertically adjustable, and means for holding a bumper member substantially in the horizontal line passing through the points of engagement of said bolts with said frame member.

1,349,118. WINDOW-WIPER. PIETRO A. CONTI, Nevada City, Calif. Filed Feb. 6, 1919. Serial No. 275,330. 10 Claims. (Cl. 15—59.)

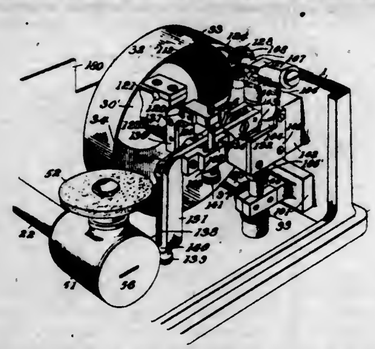


1. A window cleaner comprising a movably mounted wiper frame, a wiper element carried by the frame for movement toward and from the window surface, trips arranged adjacent the limits of travel of the frame, one of said trips being mounted for movement by the wiper element from the path thereof, and means operable by the trips for alternately removing the wiper element from and applying it to the window surface.

1,349,119. SKIVING-MACHINE. WILLIAM P. CROCKETT, Harrison, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Nov. 28, 1916. Serial No. 133,853. 6 Claims. (Cl. 69—9.5.)

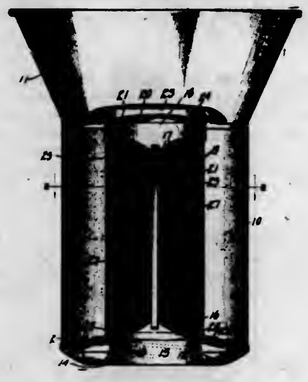
3. A machine of the character described, having in combination a main-shaft, a cutter-head actuating shaft carrying a cutter-head and operatively connected with said main-shaft, and a feeding mechanism operated from said main-shaft through connections including a feed actuating shaft carrying a multiple of spiral gears having sliding relationship therewith, and a worm gear journaled in a gear carrying yoke having swinging movements about the

axis of said main-shaft, said worm gear being provided with a gear member meshing with the gear member carried by said main shaft, the worm gear and said multiple



spiral gears being manually controlled to transmit to said feeding mechanism the feed action best calculated to meet the feed requirements of the material being acted on.

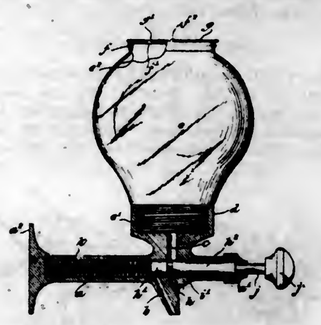
1,349,120. MILK-STRAINER. CHARLES H. CUTTING, Alameda, Calif. Filed May 10, 1919. Serial No. 296,074. 5 Claims. (Cl. 210—157.)



1. A strainer comprising an outer shell formed with an annular bottom around a central opening, an inner strainer surrounding said central opening and extending upwardly therefrom, an annular deflector extending outwardly from the bottom of said central strainer and forming a chamber between said deflector and the bottom with a narrow space between the outer edge of said deflector and said bottom and a second strainer surrounding said central strainer and formed with a closed top overhanging the upper end of the strainer structure, substantially as set forth.

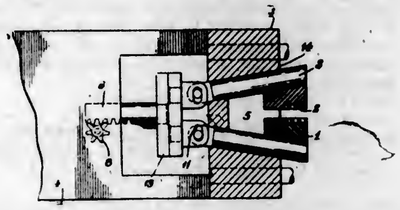
1,349,121. LIQUID-SOAP DISPENSER. JOSEPH M. DABROWSKI, Brooklyn, N. Y., assignor to Moore Brothers Company, New York, N. Y., a Corporation of New York. Filed Sept. 9, 1919. Serial No. 322,636. 2 Claims. (Cl. 221—104.)

1. A liquid soap dispenser embodying therein a cylindrical valve casing having a discharge nozzle leading therefrom at a point intermediate the ends thereof, and an intake port arranged in advance of said nozzle, a reservoir for liquid soap surmounting said casing and communicating therewith through said intake port, a reciprocatory piston mounted in said casing and having a peripheral groove adapted to receive a limited quantity of soap and dividing said piston into two distinct valves, one operative in relation to said nozzle and the other operative in relation to said intake port, said piston also having an air



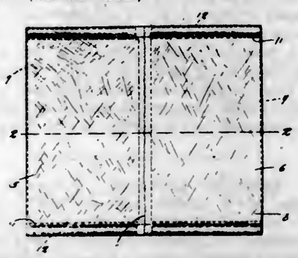
passage opening into said casing and into said groove, a spring acting upon said piston and normally maintaining said peripheral groove in communication with said intake port and causing one of said valves to close said discharge nozzle, and a stem whereby said piston may be actuated.

1,349,122. DIE-CASTING APPARATUS. CONRAD EDLUND, Brooklyn, N. Y., assignor to Doehler Die Casting Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 23, 1920. Serial No. 375,997. 4 Claims. (Cl. 22—92.)



1. In a die casting apparatus, the combination of a die having a plurality of segmental parts adapted to meet along longitudinal planes, said parts having jointly a die cavity extending lengthwise thereof, with undercuts, elongated members secured to said parts, respectively, arranged symmetrically at inclinations to the axis of the die, and means for moving said members in the directions of their lengths in opening and closing the die.

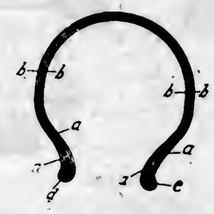
1,349,123. KNIFE-CLEANER. AXEL EMKSON, Baltimore, Md. Filed Apr. 1, 1920. Serial No. 370,469. 1 Claim. (Cl. 51—182.)



A cutlery scourer comprising a pair of scouring members flexibly connected to permit folding, one on top of

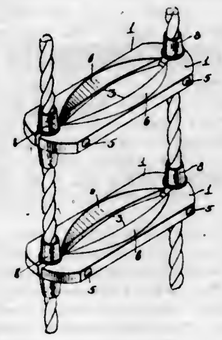
the other, for insertion therebetween of the article to be scoured, each member being composed of a rigid block and a covering therefor, said covering at the edges of the members where the article enters therebetween being provided with a hem, and rigid rods seating in the hems to distend the same and form beads having rubbing surfaces.

1,349,124. TIRE. GEORGE F. FISHER, Plainfield, N. J., assignor to Revere Rubber Company, a Corporation of Rhode Island. Filed July 15, 1915. Serial No. 39,979. 7 Claims. (Cl. 152—13.)



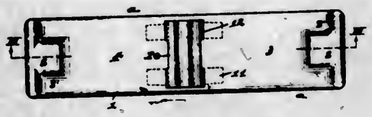
3. A tire carcass comprising superposed plies of circumferentially continuous pieces of fabric looped around oppositely disposed beads and continuations formed of less than the whole number of said plies passing respectively from each bead to the opposite sides of the tire.

1,349,125. SHIP'S LADDER. PETER FULL, Vermilion, Ohio. Filed June 20, 1919. Serial No. 305,658. 6 Claims. (Cl. 228—40.)



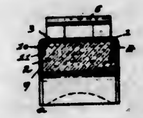
1. In a ship's ladder, the combination of flexible cables, two coöperative step plates mounted on opposite sides of said cables, coöperative cable-indenting and engaging members carried by said plates, and adjustable means adapted to lock said plates and members together in firm engagement with said cables.

1,349,126. BRAKE-SHOE. WILLIAM GIBSON, Pittsburgh, Pa. Filed July 18, 1919. Serial No. 311,848. 11 Claims. (Cl. 188—251.)



1. A brake-shoe having an inclosing casing and a filling material, said casing being provided with walls of soft material integral therewith.

1,349,127. BRAKE-SHOE. WILLIAM GIBSON, Pittsburgh, Pa. Filed Aug. 15, 1919. Serial No. 317,748. 17 Claims. (Cl. 188—251.)



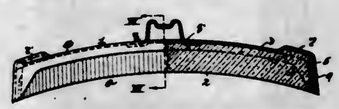
2. A brake-shoe having a supporting member and a filling member, and separate side supporting plates formed of soft material and supported by said filling member and by a seat formed at the junction of said plates and supporting member.

1,349,128. BRAKE-SHOE. WILLIAM GIBSON, Pittsburgh, Pa. Filed Aug. 16, 1919. Serial No. 317,896. 19 Claims. (Cl. 188—251.)



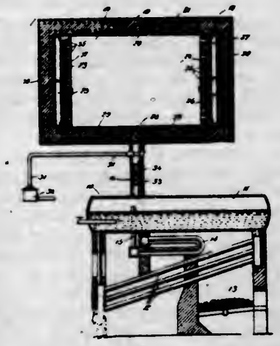
1. A brake-shoe having a supporting member and a filling member, and separate end supporting plates formed of soft material and held by the co-action of the filling member and the supporting member, with the exterior surfaces of the end plates flush with the outside surface of the supporting member.

1,349,129. BRAKE-SHOE. WILLIAM GIBSON, Pittsburgh, Pa. Filed Aug. 18, 1919. Serial No. 318,179. 13 Claims. (Cl. 188—251.)



1. A brake-shoe composed of integral plates each of which comprises more than one wall, a separate back supporting member, and a filling member within said back supporting member and plates.

1,349,130. HEATING APPARATUS. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Filed Mar. 4, 1916, Serial No. 82,067. Renewed Nov. 15, 1919. Serial No. 338,328. 14 Claims. (Cl. 219—35.)



1. A heat chamber comprising walls of heat insulation, a partition wall dividing off a narrow vapor compartment

and means in the partition for permitting the passage of vapor therethrough into the heat chamber and for increasing the temperature of the vapor as it passes therethrough.

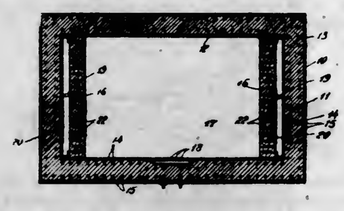
7. An oven having inclosing walls, means for preventing loss of heat therefrom, a body of relatively large heat capacity dividing off a vapor compartment, and electric heaters in the form of tapering tubes embedded in said body and providing a plurality of vapor passages from the compartment to the oven, said tubes being arranged with their larger ends opening into the oven and being adapted to increase the temperature of the vapor as it flows from the compartment into the oven.

11. A heat chamber having inclosing walls, means for preventing loss of heat therefrom, a partition dividing the chamber into vapor inlet and outlet compartments, a body of relatively large heat capacity in the partition having means for permitting the slow passage of the vapor through it, and means in the body for increasing the temperature of the vapor as it passes therethrough.

13. A heat chamber comprising a working compartment, a heat storage mass forming one of the walls of the compartment, heaters in the mass, and means for causing a heating medium to enter the working compartment through the mass.

14. A heat chamber comprising walls of heat insulating material, a heat storage mass disposed close to one of the walls of the chamber, electric heaters in the mass, and means for causing hot vapor to enter the chamber through the mass.

1,349,131. HEATING APPARATUS. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Filed Mar. 4, 1916, Serial No. 82,070. Renewed Nov. 15, 1919. Serial No. 338,329. 14 Claims. (Cl. 219—35.)



3. A heater comprising a chamber constituting a source of heated gas, a working chamber to which the gas is supplied and interposed porous metallic mass having large heat capacity and through which the gas percolates from the source to the working chamber, and electric heating elements embedded in the porous mass.

5. A heater comprising a porous metallic mass having insulated electric heaters associated therewith, and means for causing vapor to pass through the pores of the metallic mass.

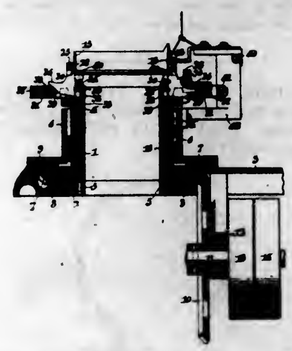
7. A heater comprising a metallic mass having insulated armored electric heaters embedded therein, and adapted to permit the passage of vapor therethrough.

8. A tubular heater comprising a tubular porous body having an interior vapor passage, and heater elements disposed in the body and adapted to heat the vapor as it passes through the pores of the body.

12. A heater comprising a hollow perforated pipe constituting a support and adapted to be supplied with steam, a porous mass of large heat capacity mounted on the pipe and electric heater elements associated with the porous mass and adapted to produce useful heat, the temperature of which is built up from the level established by the steam.

1,349,132. SPRING-NEEDLE KNITTING-MACHINE. EMIL A. HIENER, Allentown, Pa. Filed Jan. 31, 1919. Serial No. 274,160. 5 Claims. (Cl. 66—26.)

3. In a knitting machine, the combination of a series of spring beard needles; a group of actuating cams therefor; a beard presser element common to the said needles; a web holder associated with each needle and provided with a projection for engaging the corresponding needle, where-



by, when the web holder is retracted to permit the drawing of a new fabric loop, the coöperative needle is deflected so that its beard is closed by contact with the presser element.

1,349,133. SHEET-FEEDING MACHINE. EDWIN F. HULBERT, Milwaukee, Wis., assignor to National Paper Can Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 27, 1917. Serial No. 209,187. 5 Claims. (Cl. 271—62.)

2. In a machine for feeding sheets of paper or the like from a pile having means for transferring the top sheet from a pile, the combination of a frame having a plurality of legs, a table having mechanism engaging the legs to raise the table with relation thereto, an electric motor carried by the table for driving the table raising mechanism and means for controlling the motor to maintain the top of the pile at a substantially constant level with relation to the transferring means, including a feeler adapted to rest against the top of the pile, and an electric contact moved by the feeler and operating to start the motor when the feeler moves downwardly upon the removal of the top sheet or sheets and operated to stop the motor when the top of the pile of sheets is raised to the desired predetermined level; substantially as described.

1,349,134. RECOVERY OF POTASSIUM SALTS AND BORAX. KARL J. JACOBI, Roselle Park, N. J., assignor to Pacific Coast Borax Company, New York, N. Y., a Corporation of Nevada. Filed Aug. 25, 1919. Serial No. 319,744. 15 Claims. (Cl. 23—22.)

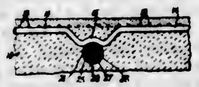
6. The method of improving the recovery of potassium salts and borax from alkaline brines containing them, which comprises acidifying the brine to reduce its alkalinity, concentrating the resulting brine and cooling the concentrated brine, substantially as described.

1,349,135. CORNUCOPIA-SERVING DEVICE. SAMUEL A. KORNSWEET, Los Angeles, Calif. Filed Dec. 16, 1918. Serial No. 266,872. 2 Claims. (Cl. 294—33.)



1. A cornucopia serving device comprising an elongated body member, a resilient ring member secured at one end to said body member and formed in a circular curve, a slot member secured to the opposite side of the body member, said ring member being slidably received in said slot member, and said ring member being provided with a thumb rest.

1,349,136. HEATING MEANS. WILLIAM W. LILLARD, Irvington, N. J., assignor of one-half to Ernest John King, Jersey City, N. J. Filed Oct. 26, 1917, Serial No. 198,654. Renewed Sept. 29, 1919. Serial No. 327,264. 8 Claims. (Cl. 219—19.)



1. A heating means, comprising a monolithic structure of relatively low thermal conductivity, a heat distributing medium of relatively high thermal conductivity embedded in the said structure in close proximity to its upper surface, and a heat receiving medium embedded in the said monolithic structure below and in contact with the said heat distributing medium, and means for heating the said heat receiving medium.

2. A heating means comprising a monolithic structure, a heat distributing medium embedded therein, a tube embedded in said monolithic structure and in contact with the said heat distributing medium, and means for heating the said tube interiorly, the said heat distributing medium being a better thermal conductor than the said monolithic structure.

3. A heating means, comprising a monolithic structure, a heat distributing medium embedded therein a short distance below its upper surface, and an electric heating coil embedded in the said monolithic structure below and in contact with the said heat distributing medium, the said heating coil being arranged for connection with a source of electrical energy.

5. A heating means, comprising a monolithic structure, a heat distributing medium embedded in the said structure in close proximity to its upper surface, a tube embedded in the said structure below and in contact with the said heat distributing medium, and an electric heating coil arranged within the said tube to heat the latter, the said heating coil having electric conductors extending to the outside for connection with a source of electrical energy.

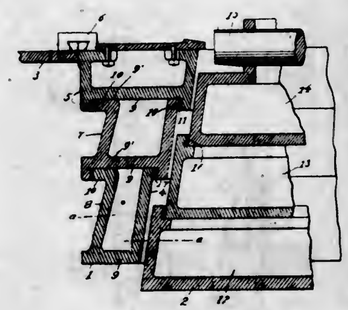
7. A heating means, comprising a monolithic structure, a heat distributing medium embedded in the said structure and formed of a heat distributing wire netting and metallic contact bars, of which the wire netting is in close proxmity to the surface of the monolithic structure and is in contact with the said contact bars, the latter being provided wih curved offset saddles, a metallic tube embedded in the said monolithic structure and engaged exteriorly by the said saddles, an electric heating coil within the said tube and in contact therewith, a core within the said coil, and electric conductors within the said core and connected with the said coil, the said conductors extending to the outside of the structure for connection with a source of electrical energy.

1,349,137. CAP FOR AUTOMOBILE-RADIATORS AND THE LIKE. HENRY S. MORGAN, Poughkeepsie, N. Y., assignor to Pouvaliesmith Corporation, Poughkeepsie, N. Y., a Corporation of New York. Filed Aug. 14, 1917. Serial No. 186,115. 1 Claim. (Cl. 220—39.)



A cap for automobile radiators and the like, comprising a bushing adapted to fit a radiator pipe and open at both ends, a covering of hard moldable material unaffected by the action of steam or hot water and having a relatively high elastic limit, said covering surrounding the periphery and closing one end of the bushing, and provided with an annular shoulder against which the end of said pipe may abut, the ratio of mass and disposition of bushing to covering being low enough so that the bushing does not crack the covering by differential expansion with changes of temperature.

1,349,138. VAULT-VESTIBULE. MOSES MOSLER, Cincinnati, and CARL BARTELS, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Filed Sept. 22, 1919. Serial No. 325,577. 7 Claims. (Cl. 109—1.)

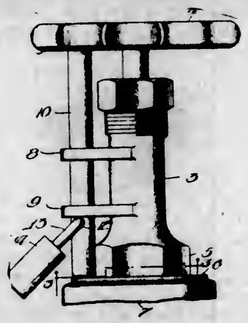


1. A vault vestibule comprising, a vestibule section having a front provided with a dovetail and with an inner door-step, a second similar section having a dovetailed juncture with the first-mentioned section, tightly fitted filling strips engaging the dovetailed elements of the two sections, an inner door section, a second similar door section having a dovetailed connection with the front of the first-mentioned door section, and filling strips tightly fitting permanently between the engaging dovetailed elements of the two door sections combined, substantially as set forth.

1,349,139. VALVE-LOCK. JOHN M. MCDONALD, Dubuque, Iowa, assignor to A. Y. McDonald M'f'g. Co., Dubuque, Iowa, a Corporation of Iowa. Filed Dec. 30, 1918. Serial No. 268,874. 3 Claims. (Cl. 70—125.)

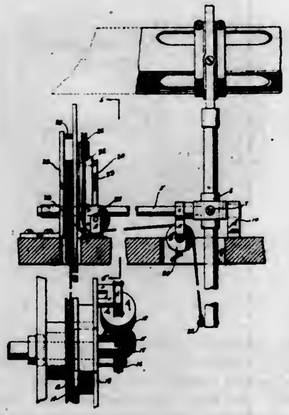
1. In combination with a valve casing having a neck enlarged at its base to provide a polygon with flat faces, a hand wheel projecting from the outer end of the neck, a guide lug outstanding from the neck at a point in alinement with one of the flat faces of the polygonal base, a locking pin slidably mounted within the guide lug in adjacent relation to said flat face of the base and adapted when projected to have its acting end brought into lock-

ing relation with the hand wheel, said pin being provided with a transverse hole, and a padlock having a loop



adapted to be entered through the hole either when the pin is adjusted to bring the hole above or below the guide lug, substantially as described.

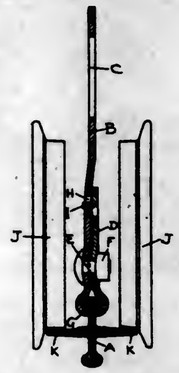
1,349,140. MACHINE-GUN-CONTROL SYSTEM. FRED J. MARTEL, Hanover, N. H., CLARK ARTHUR BRIGGS, Joplin, Mo., DOUGLAS L. MACAULAY, Montreal, Quebec, Canada, WINTHROP R. WRIGHT, Swarthmore, Pa., and FRANK WENNER, Asadia Park, D. C., assignors to Newton D. Baker, Secretary of War, trustee. Filed Dec. 10, 1919. Serial No. 343,973. 7 Claims. (Cl. 89—27.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a device of the class described, the combination with a propeller and a traversable machine gun mounted adjacent thereto, of means for timing the firing of the gun, a member controlled by said gun and having a fixed pivot substantially on a line with the center of revolution of said gun and the center of revolution of the propeller, and means associated with said member for transmitting the angular movement of said member to said timing means, and for interrupting the firing when the gun is aimed at a fixed object on the airplane.

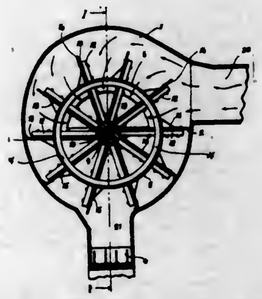
1,349,141. OVERHEAD-TRACK HANGER. ALBERT H. NELLES, Fairfield, Iowa, assignor to The Louden Machinery Company, Farfield, Iowa, a Corporaton of Iowa. Filed June 12, 1920. Serial No. 388,445. 6 Claims. (Cl. 104—111.)

1. In hangers for overhead tracks, a suspending member having means to connect with an overhead support, a shorter clamping member adapted to be connected to the suspending member, both members being made of rolled metal pressed to shape and having their lower ends spread apart and inturned to catch around and under the head of a track-rail, an opening in the body of the suspending member below the upper edge of the clamping member,



and a portion of the clamping member being cut away at its lower edge opposite the opening in the suspending member and bent to the side to form an integral laterally projecting lug to enter the opening in the suspending member and to rest upon the lower edge of the opening, thus forming a support for the clamping member.

1,349,142. COTTON-SEPARATOR. MELFORD L. WILLIAMS and EARSKIN G. KEMPER, Dallas, Tex. Filed Mar. 14, 1919. Serial No. 282,643. 2 Claims. (Cl. 13—19.)

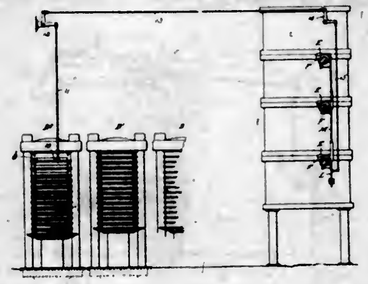


2. In a machine for separating cotton from atmospheric suction, in combination with a casing, inlets and outlets for the air and cotton, an exhaust pipe and fan, of a sectional screened drum within the casing arranged to shut off air suction from the top thereof, and a small pipe leading from the exhaust pipe to an opening in either end of the casing, said openings adapted to admit air with or without connection to said pipe to keep the periphery of the screened drum free from adhering cotton.

1,349,143. CONTROLLING MECHANISM FOR MEAL-COOKERS AND THE LIKE. KIRTLAND C. BARTON, National Stock Yards, Ill., assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Filed Sept. 16, 1918. Serial No. 254,245. 10 Claims. (Cl. 87—6.)

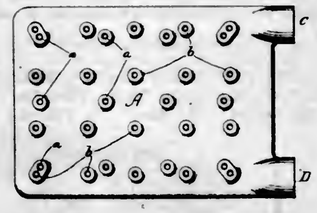
1. The combination with a cooker comprising a plurality of kettles and means for causing the delivery of the material from one kettle to another, and a press for pressing

material withdrawn from said cooker, of means which are controlled by the operation of said press and which act



when said press is operated to set in action said first mentioned means and cause the delivery of material from one kettle to another.

1,349,144. NOZZLE-HEADER FOR BOTTLE-WASHING MACHINES. WILLIAM W. BIRNSTOCK, York, Pa., assignor to Hench & Dromgold Company, York, Pa. Filed Sept. 25, 1919. Serial No. 326,269. 1 Claim. (Cl. 141—7.)



A nozzle header for bottle washing machines, comprising a hollow shallow box-like header body; partitions between the top and bottom thereof, dividing the interior of the header into two sets of passage-ways, the one set comprising an outer continuous U-shaped passage-way on two sides and an intermediate end of the header, and, within the area not occupied by said outer passage-way, two additional passage-ways formed by oblong inclosures located therein at intervals apart from one another and from the walls which bound the area in which they are contained, and the other set comprising the passage-ways formed by intervals which separate said inclosures from one another and from the walls of the area in which they are contained; cross-ducts extending between, and opening at their ends into the two legs of the U-shaped outer passage-way, and, at suitable points between their ends, into the two inclosures which are thus brought into communication each with the other and with the outer passage-way: two sets of nozzles in the top of the header communicating with their appropriate sets of passage-ways: and a separate and distinct feed inlet for each set of passage-ways.

1,349,145. VALVE. JOSEPH C. BREINL, Prague, Czechoslovakia. Original application filed May 24, 1916, Serial No. 99,648. Divided and this application filed Feb. 8, 1917, Serial No. 147,331. Renewed Mar. 2, 1920. Serial No. 362,680½. 3 Claims. (Cl. 251—119.)

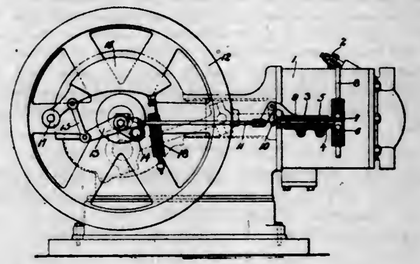
1. A valve, comprising a valve seat, a valve plate, a stop plate, means connecting said valve seat and stop plate, and a cushioning guide plate of spring material comprising a central portion secured to the alve seat, a peripheral ring attached at spaced points only to the valve plate, and arms extending from the central portion of the guide plate and connected with said ring at points adjacent to its points of attachment to the valve plate, said ring being cut between said points of attachment and the adjacent arms, whereby parts of said ring disposed between the spaced





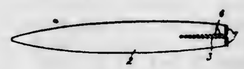
points and the arms move toward and from the valve plate as it opens and closes and said guide plate insures a parallel opening movement and lateral rigidity of the valve.

1,349,146. GOVERNING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. ADOLPH F. CHRISTMAS, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 26, 1915. Serial No. 30,508. 2 Claims. (Cl. 123—97.)



1. In a fuel injector for oil engines, a fuel pump, a plunger therefor, a rotary element, a centrifugal element rotating with said rotary element, a controlling lever pivoted at one end eccentrically of said rotary element, a plunger operating rod pivotally secured to said controlling lever between the said pivot point of said lever and the rotation center of the rotary element and a connection between the other end of said controlling lever and said centrifugal element adapted to rotate said controlling lever oppositely to the direction of rotation of said rotary element and advance the point of connection between the plunger operating rod and the controlling lever in the direction of rotation when the speed increases, said movement serving to actuate said plunger earlier in the piston stroke of said engine, the movement of said plunger being derived solely from said controlling lever.

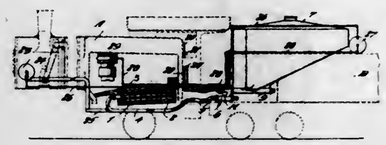
1,349,147. CIGAR. ELBERT L. COUCH, Farmington, and GEORGE H. CONNERS, Hartford, Conn. Filed June 9, 1920. Serial No. 387,551. 7 Claims. (Cl. 131—52.)



1. A cigar provided with a combination lighting and advertising member, the advertising means being adapted to light said member.

7. An igniting device for a cigar comprising a wedge like body having two branches to fit flatwise against each other, and having ears carrying advertising matter which functions also to ignite the ears, said device being insertible in the tuck end of a cigar with the ears folded back against the cigar end.

1,349,148. PULVERIZED-FUEL-BURNING DEVICE. JOHN DICKSON, Vancouver, Wash. Filed July 28, 1917. Serial No. 183,341. 2 Claims. (Cl. 110—28.)



1. A device for feeding pulverized fuel comprising a tender having a fuel hopper, a locomotive engine having a fire box, a burner nozzle disposed at the front of the fire box and directed toward the rear, a fuel pipe connected with said burner nozzle and extending rearwardly toward the tender, a nozzle discharging into said pipe and carried by the tender, means for introducing compressed air into said discharge nozzle, connections between said discharge nozzle and said fuel hopper for introducing fuel into said discharge nozzle whereby the fuel is delivered to the burner nozzle, auxiliary air pipes connected with said fuel pipe, said air pipes being directed to assist in the travel of the fuel, means for heating the air prior to its delivery to said discharge nozzle and to said fuel pipe, said last named means comprising a tank disposed in the smoke box of the locomotive, and means for forcing air through said tank.

1,349,149. ANTISKID ATTACHMENT FOR TIRES. FRANK M. FICHTEN, Milwaukee, Wis., assignor to Franklin Rightmire, Paterson, N. J. Filed Aug. 2, 1917. Serial No. 184,067. 9 Claims. (Cl. 152—14.)

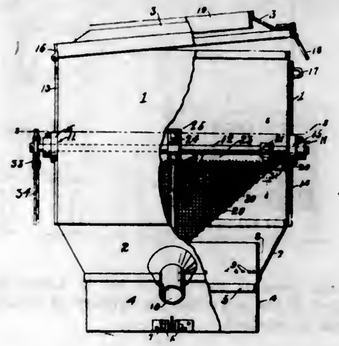


5. A traction attachment for a vehicle driving wheel including a flexibly connected series of members having means to secure it to the wheel with said members in contact with the tread face of the wheel, said members increasing in thickness one after another.

1,349,150. TANNING. CONRAD VARLEY GREENWOOD, Blundellsands, near Liverpool, England. Filed July 28, 1915. Serial No. 42,339. 8 Claims. (Cl. 149—4.)

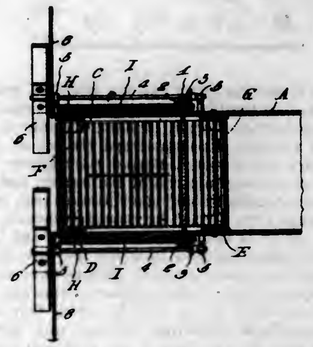
8. A process of tanning in which the goods are first treated with a vegetable restraining colloid and subsequently treated with a tanning agent of such strength as would injure the goods except for the presence of the restraining colloid.

1,349,151. SPARK-ARRESTER. BURTON C. HARDGROVE, Portland, Oreg., assignor of one-half to Clifton Osborne. Filed Aug. 7, 1919. Serial No. 315,949. 4 Claims. (Cl. 183—63.)



1. In a spark arrester, a chamber through which products of combustion can pass, a foraminous screen substantially in the shape of an inverted cone, a rotary shaft extending across the interior of said chamber, an arm on and extending radially from said shaft, and a disk having its central part secured to said arm and its peripheral part secured to the apex-end of said screen.

1,349,152. STRAW-SPREADING ATTACHMENT. SHERMAN A. HARN, Waterville, Wash. Filed Mar. 15, 1920. Serial No. 365,847. 1 Claim. (Cl. 275—6.)



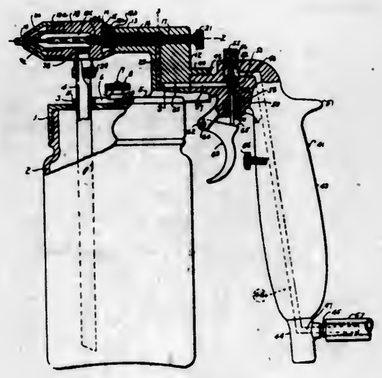
A spreading attachment for a thresher or like machine which includes a vehicle having an open rear end, a belt-conveyer having its discharge end at said open rear end, and a rotary shaft on which said belt-conveyer is supported; this spreading attachment comprising a sprocket wheel attachable to said shaft at a point exteriorly of said vehicle, a driven shaft, a sprocket wheel carried by said driven shaft, a chain to transmit motion from the first said sprocket wheel to the second said sprocket wheel for rotating said driven shaft, a pair of shafts adapted to be journaled on opposite sides of the vehicle and to extend to said open rear end from said driven shaft, paddles on the rear ends of said pair of shafts, gear wheels on the front end portions of the paddle-carrying shafts, and gear wheels on the end portions of said driven shaft and meshing with the gear wheels of said paddle-carrying shafts respectively, whereby straw or material from said belt-conveyer can be spread in and laterally of the path of the harvester or like machine.

1,349,153. ADJUSTABLE VALVE-SEAT FACER. FRANK HOZANER, Los Angeles, Calif. Filed Mar. 17, 1919. Serial No. 283,205. 6 Claims. (Cl. 90—12.5.)



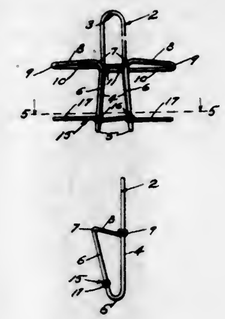
1. In a valve seat facer, a head formed with radial slots in its upper face, cutters slidable in said slots, said head being provided with screw holes in its upper face between said slots, a plate fitting on the upper face of said head, said plate being provided with a central opening and with radial slots extending from said opening, said plate being also provided with screw holes between its slots adapted to register with the screw holes in said head, screws extending through the screw holes in said plate and screwing into the screw holes in said head to hold said plate on said head, a stem secured in said head and extending through the opening in said plate, a thread on the lower portion of said stem, an expanding head screwing on said stem thread for engaging said cutters to force them outwardly, a wrench seat on the upper end of said stem, and a pilot stem secured to said head adapted to fit in a valve bearing.

1,349,154. AIR-BRUSH. BIRCHARD E. HOLTON, Los Angeles, Calif. Filed June 9, 1919. Serial No. 302,981. 6 Claims. (Cl. 91—45.)



1. In an air brush, a paint receptacle, a cap on the paint receptacle, a base removably connected to the cap, a pedestal extending upwardly from the base, a barrel extending from the upper end of said pedestal, a paint chamber in said barrel and a nozzle on said barrel leading from said paint chamber, a paint tube screwed into said barrel leading from said chamber and extending loosely through said cap into said paint receptacle, a regulating valve for said nozzle, a handle connected to said pedestal and provided with an air passage, a hose nipple on said handle communicating with said passage, said pedestal having an air passage communicating with the air passage in said handle, said barrel having an air passage leading from the air passage in said pedestal through the forward end of the barrel, an air nozzle on the forward end of the barrel around said paint nozzle, a valve controlling the supply of air through said passages and said air nozzle, and a trigger for actuating said valve.

1,349,155. LID-HOLDER. JOE HUTTNER, Sierra Madre, Calif. Filed Jan. 2, 1920. Serial No. 349,097. 2 Claims. (Cl. 65—65.)

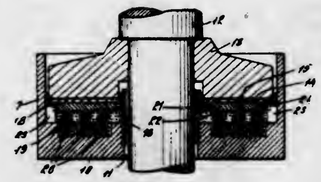


2. In a utensil holder formed of a single piece of wire bent downwardly to form a U-shaped back with the bend at the top, the extended portions then bent upwardly, spaced substantially parallel to a point approximately midway of its height forming lower seats, thence outwardly and away from each other in a substantially horizontal plane to a part remote from the back, thence inwardly toward the back and toward its vertical center, forming side seats, the respective ends thereof overlapping and bent around the remote back member.

1,349,156. PYROXYLIN SHEET OF LOW INFLAMMABILITY. JOHN G. JARVIS, Stamford, N. Y. Filed Mar. 13, 1919. Serial No. 282,440. 1 Claim. (Cl. 106—40.)

A composition of matter containing acetyl cellulose compound, in combination with acetone cinchonine and its salts.

1,349,157. THRUST-BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Filed May 1, 1917. Serial No. 165,685. 12 Claims. (Cl. 64—25.)

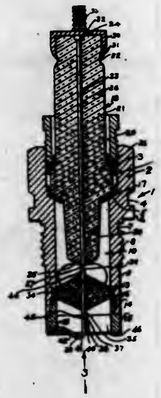


1. A thrust bearing comprising relatively rotatable bearing members one of which consists of a continuous flexible ring having an annular bearing surface, and means for supporting the ring to permit it to be flexed in response to the varying pressures due to the wedging action of the oil between the bearing surfaces when the said surfaces are in relative movement.

2. A bearing comprising a member having an annular bearing surface with one or more oil apertures therein, a relatively thin flexible continuous bearing member having a coöperating bearing surface, and yielding means for supporting said flexible member.

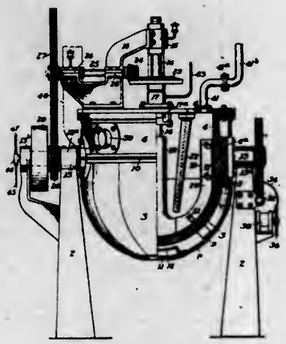
9. A bearing comprising a relatively rigid member having an annular bearing surface and a continuous relatively flexible annular member having a coöperating bearing surface and yielding means for supporting the flexible member, at least one of said bearing surfaces having apertures through which oil is delivered to the surfaces.

1,349,158. SPARK-PLUG. ARTHUR V. KINSEL, Los Angeles, Calif. Filed June 17, 1919. Serial No. 304,930. 1 Claim. (Cl. 123—169.)



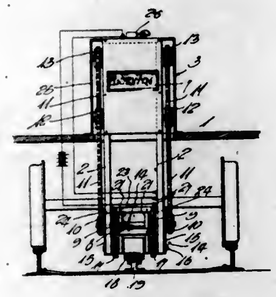
A spark plug comprising a metallic casing, a main insulator mounted in the metallic casing its inner end terminating at a proper point within the casing, a conductor rod mounted centrally through the main insulator its inner end extending from the end of the main insulator, a second insulator fixed in a recess within the end of the casing opposite the inner end of the main insulator having a conductor rod through the center thereof, its inner end positioned within proper sparking distance of the inner end of the rod of the main insulator there being a chamber formed between the two insulators and there being ports cut through the wall of the metallic casing communicating with the chamber, means for holding the second insulator in place, and a third conductor rod connected with the metallic casing and having its free end disposed within sparking distance of the outer end of the conductor rod in the second insulator thereby forming two spark gaps within the plug in a sparking circuit.

1,349,159. POT-FURNACE. ELMER L. KNOEDLER, Gloucester City, N. J., assignor to Welsbach Company, Gloucester, N. J., a Corporation of New Jersey. Filed May 1, 1918. Serial No. 231,859. 15 Claims. (Cl. 263—13.)



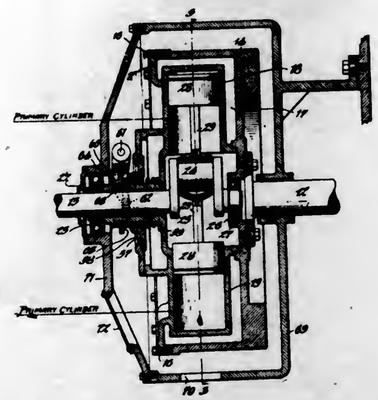
1. A pot furnace, comprising a tiltable pot, means whereby heat may be applied thereto, and stirring means mounted on the pot to rotate therein about an axis which is at an angle to the tilting axis of the pot, substantially as described.

1,349,160. STATION-INDICATOR. JOHN JOSEPH KOVACH, La Belle, Pa. Filed Mar. 4, 1920. Serial No. 363,248. 5 Claims. (Cl. 40—46.)



1. A device of the class described comprising a support, movable indicator mechanism carried thereby, gearing also carried by the support for imparting motion to said mechanism, a vertically movable frame, springs between the frame and the support, a shaft journaled in said frame, a roller on said shaft for frictional contact with a cam track section, and a gear on the shaft held out of mesh with said gearing by said springs.

1,349,161. PNEUMATIC TRANSMISSION FOR AUTOMOBILES. WILLARD C. KRESS, Buffalo, N. Y. Filed Sept. 18, 1919. Serial No. 324,544. 7 Claims. (Cl. 192—18.)

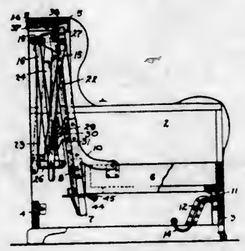


1. In a transmission mechanism, the combination with a driving shaft and a driven shaft, of a resistance-cylinder revoluble with the driving shaft and having a piston therein, a crank carried by said driven shaft and connected to said piston, a pneumatic pressure chamber adapted to communicate with said cylinder, means for creating pressure in said chamber, and means for controlling communication between said cylinder and said chamber.

1,349,162. DAVENPORT-BED. JACOB KRONHEIM, Cleveland, Ohio. Filed July 15, 1918. Serial No. 244,892. 4 Claims. (Cl. 5—48.)

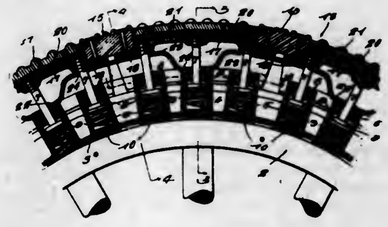
1. In a davenport bed, a tilting back rest and a couch seat pivotally connected therewith, a couch frame for

said parts, and folding braces at each side connected with the rear and top of the couch frame and the front



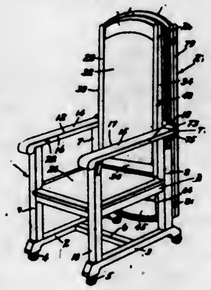
of the said back rest adapted to support said back rest when lowered.

1,349,163. RESILIENT TI... CARL LA COUR, Dixon, Ill. Filed July 17, 1919. Serial No. 311,428. 11 Claims. (Cl. 152—8.)



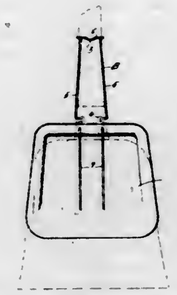
11. In a device of the character described, the combination of a rim, a cushion tire casing mounted upon said rim and having its tread cut out at intervals, radial cylinders mounted upon said rim, spring pressed plungers mounted in said cylinders and having their stems projecting out of the same, inflexible tire sections carried by the stems of said plungers and disposed in the cut out portions of said tire casing, said tire sections bearing against portions of said tire casing, and a sinuous spring band having portions bearing against the ends of some of said cylinders and other portions bearing against said tire sections.

1,349,164. CHAIR. JOHN W. LANG, Redondo Beach, Calif. Filed Oct. 13, 1919. Serial No. 330,393. 4 Claims. (Cl. 155—43.)



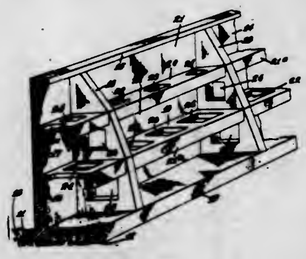
1. A transformable chair comprising a stand having horizontal parallel arms, pivot pins extending inwardly from the rear ends of the arms, supporting pins extending inwardly from near the front ends of the arms, a chair back having side bars fitting loosely between the arms, plates at the outer faces of the side bars and having longitudinally extending slots and lateral slots intermediate of the ends of the longitudinally extending slots, said slots being adapted to receive the pivot pins, second plates at the outer sides of the side bars and having L-slots adapted to receive the supporting pins, and a table top mounted upon the chair back.

1,349,165. DUSTPAN. JOHN M. LUND and HANS ANDERSON, Battleview, N. D. Filed June 4, 1920. Serial No. 386,480. 2 Claims. (Cl. 65—62.)



1. A dust pan comprising a handle formed from a single strand of resilient wire so as to provide two pairs of parallel jaws connected by diagonal extensions, legs extending at right angles to one pair of said jaws so as to lie along the bottom of the dust pan.

1,349,166. RETAINING-WALL FOR EMBANKME... S. CHARLES PAFF, New York, N. Y. Filed May 25, 1918. Serial No. 236,484. 5 Claims. (Cl. 61—39.)

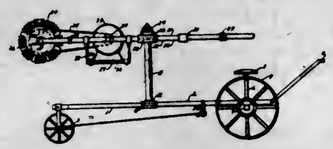


1. In a retaining wall, the combination with a substantially flat horizontal base having a wall member extending upwardly substantial from the forward edge thereof, of superposed spaced horizontal hook-shaped ledges and spaced vertical web members extending rearwardly from the wall member and forming with the base and wall member superposed rows of open pockets, said ledges and web members having large orifices therethrough, and said base being of greater width than the ledges.

1,349,167. POWER SHIP-CLEANING DEVICE. WILLIAM J. PATTOSIEN, San Francisco, Calif. Filed Mar. 23, 1920. Serial No. 368,118. 2 Claims. (Cl. 114—222.)

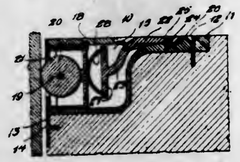
1. A longitudinal frame, supported by and freely swinging on a portable pole engaging said frame at or near its

center, one end of the frame carrying a rotating brush and a motor in fixed relation, the motor adapted to rotate



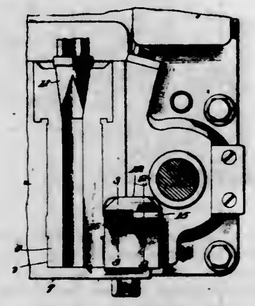
the brush, the other end carrying a slidable counterweight and means for the operator to swing the frame in a desired position.

1,349,168. SASH ATTACHMENT. HARRY S. PIERCE, Wilmington, Del. Filed Aug. 22, 1919. Serial No. 319,160. 1 Claim. (Cl. 292—75.)



A sash attachment comprising a casing open at one end and having a slot in the side wall of the casing, a frame slidable in said casing, a roller journaled in the frame and extending through the opening in the end of the casing, an arm pivotally mounted within the casing, a spring located at one end of the arm and engageable with the sliding frame for yieldingly holding the roller against the window frame, an offset terminal portion at the opposite end of the frame, whereby the latter will extend into the slot of the side wall of the casing and means for adjustably securing the terminal portion of the arm to the casing.

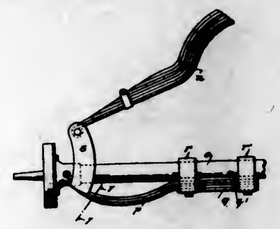
1,349,169. DRILL-SHARPENING MECHANISM. PETER SCHEIB, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Mar. 25, 1918. Serial No. 224,616. 12 Claims. (Cl. 76—95.)



1. In drill sharpening apparatus, the combination with relatively movable die members, said members having an open drill steel receiving mouth between them, of dies carried by the die members and located transversely to the die receiving mouth, said dies having coacting rounded corner drawing faces.

1,349,170. SPRING-SUPPORT FOR VEHICLE-BODIES. JOHN E. SIMMONS, Portland, Oreg. Filed Sept. 7, 1918. Serial No. 253,051. 7 Claims. (Cl. 267—46.)

1. In a vehicle running gear, the combination of a laminated half elliptic spring fastened to the vehicle body, a complementary laminated spring member fastened on the under side of the axle, and a connection between the



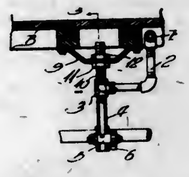
adjacent ends of the complementary spring mmeber and the half elliptic spring, the connection spanning the axle end, which is permitted relative vertical motion therein.

1,349,171. RAILROAD-TIE. ROBERT H. SPENCER, Turlock, Calif. Filed Oct. 15, 1919. Serial No. 330,885. 1 Claim. (Cl. 238—32.)



A railroad tie comprising a pair of metal channels positioned end to end, the bottoms of said channels being cut for a certain distance from the adjacent ends and turned up to form ears, the ears and ends on one channel interlocking with those on the other, a pivotal pin through such ends and ears, and blocks secured in the channels, such blocks terminating short of the hinged ends and adapted to receive the rails thereon.

1,349,172. AUTOMATIC TRAIN-STOP. MARION TAYLOR, Soudan, Va. Filed Jan. 19, 1920. Serial No. 352,480. 5 Claims. (Cl. 246—170.)

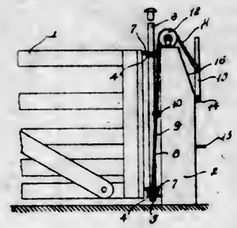


5. In an automatic train stop device, the combination with a car body equipped with a pneumatic brake system; of a bracket carried by said body, piping connected to and communicating with the train pipe of said system, means between the bracket and the piping to permit vertical adjustment of the latter, and axle operated brake controlling mechanism associated with the piping.

1,349,173. VERTICALLY-ADJUSTABLE GATE. ORISON VEEDER, New Windsor, Ill. Filed Aug. 14, 1919. Serial No. 317,547. 1 Claim. (Cl. 39—14.)

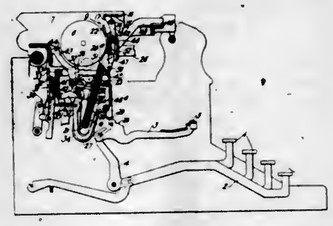
The combination with a gate and a gate post, a vertical hinge rod connected with the post and positioned in spaced relation thereto, a gate, and eyes connected with the gate and slidably mounted upon the hinge rod, of an elongated supporting rod extending vertically of the hinge rod and having its lower end portion substantially circular in cross section and bent to provide an eye extending to one side

and slidably mounted upon the hinge rod beneath the lower eye of the gate, and actuating means for raising the sup-



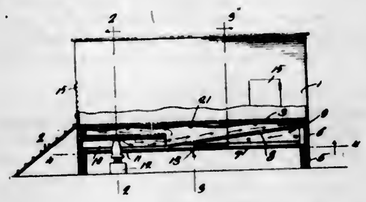
porting rod and gate carried by the gate post and including a flexible element connected with the upper end of the supporting rod.

1,349,174. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 16, 1918. Serial No. 266,950. 26 Claims. (Cl. 197—135.)



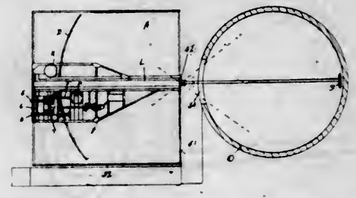
1. In a typewriting machine, the combination with a platen and types for printing upon said platen, of a ribbon-vibrating mechanism adapted to operate at a type-stroke, means for silencing said vibrating mechanism, and a device adapted to be controlled by a work-sheet upon which the printing is being done, to automatically make said vibrating mechanism effective or ineffective.

1,349,175. CHICKEN-BROODER. PERCEVAIL E. WALKER, Holbrook, Oreg. Filed Jan. 9, 1920. Serial No. 350,341. 1 Claim. (Cl. 237—14.)



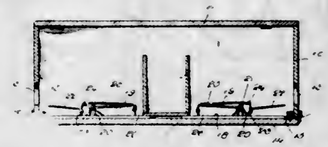
In a poultry brooder, the combination of a brooding chamber and a heating chamber, said heating chamber provided with a foraminous partition at its top and a partition at its bottom provided with a circular opening and a rectangular opening, a shield situated within said chamber and over said circular opening, a source of heat provided within said circular opening, an inclined partition leading from said shield to the top of said heating chamber, the upper portion of said inclined partition provided with an opening, said brooding chamber situated upon said heating chamber whereby the floor of the brooding chamber will be heated.

1,349,176. COKE-RAKE. BUNZO WATANABE, Salt Lake City, Utah, assignor of one-tenth to Henry D. Moyle and Paul H. Ray, Salt Lake City, Utah. Filed May 5, 1919. Serial No. 295,020. 11 Claims. (Cl. 214—32.)



1. In a coke rake the combination of a wheel supported platform adapted to be run on a railway track, with a frame pivoted and supported at one point on said platform and supported by a curved track at other points; a handle race pivoted at one end to said frame and free to move vertically at its other end; a guide stay to hold said free end in a vertical plane over the pivot of said frame; an air cylinder; a connecting rod secured at its upper end to said handle race and whose lower end is movable in said cylinder; means to introduce compressed air into said cylinder to raise and lower the free end portion of said handle race; a handle slidable in said handle race; a rake blade on one end of said handle; rollers on said handle race which bear against said handle; rollers carried on said handle which bear against the inside of said handle race; a rotatable shaft on which said handle race is pivoted; sprocket wheels secured on said shaft and rotatable therewith; other sprocket wheels mounted on the free end of said handle race; chains operable over said sprocket wheels; means to fasten one end of said handle to said chains whereby said handle is moved longitudinally in one direction within said race when said chains are made to travel in one direction by the first mentioned sprocket wheels, and in the opposite direction when said chains travel in the reverse direction; and a source of power to rotate said shaft in either direction as desired.

1,349,177. CABINET-TRAP. ALBERT WIEMER, Bradley, Ill. Filed May 13, 1919. Serial No. 296,848. 2 Claims. (Cl. 43—81.)

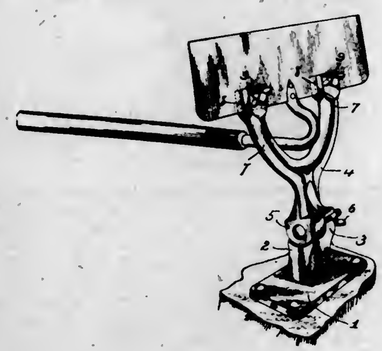


1. A trap including a casing having side walls and a bottom, means to detachably secure the bottom to the casing, the opposite side walls of said casing being provided with spaced openings, a row of traps mounted on said bottom and arranged rearwardly of each set of openings in the side walls of the casing, the traps of each row having their rear ends arranged in opposed spaced relation to the traps of the other row, and a bait trough extending across the intermediate portion of the casing and having its ends rigidly secured to the opposite sides of the casing, the rows of traps having their rear end portions engaged by the bottom of said trough whereby the traps are securely held in position.

1,349,178. TOOL FOR HOLDING HOES WHILE SHARPENING THE SAME. HARRY E. WIGGS, Mannford, Okla. Filed Oct. 7, 1919. Serial No. 329,157. 2 Claims. (Cl. 81—3.)

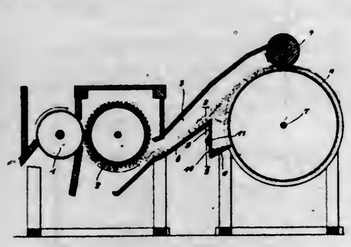
2. A tool for holding a hoe while being sharpened consisting of a base plate, a post thereon, an integral Y-

shape holder adjustably secured to the post whereby the holder may be adjusted to permit the end of the handle of the hoe to rest on the ground or other support while the blade is being supported by the holder, the upper free ends of the side members of the holder being separated as



shown for the entrance of the shank of the hoe handle between them, and the free ends of said side members being slotted to receive the rear edge of the blade and support the latter in position to be sharpened, clamping screws for locking the blade to the holder, and a screw bolt and nut for locking the holder in its adjusted position to the post.

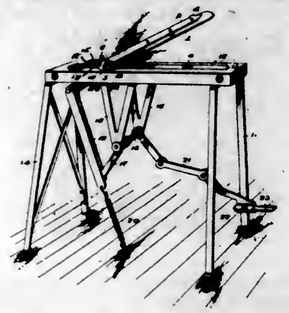
1,349,179. LINTING-MACHINE. GEORGE N. WOODRUFF, Hugo, Okla., assignor of one-half to Thomas D. Bruce, Paris, Tex. Filed Nov. 24, 1919. Serial No. 340,167. 1 Claim. (Cl. 13—17.)



In a linting machine, the combination with an inclined passage; of a rotary screen operating across the upper delivery end of said passage, the bottom of said passage terminating at its upper end in spaced relation with said screen, at a point in approximately the same plane with the screen axis, a vertical wall extending from said upper end of said passage bottom, and an auxiliary bottom inclining downwardly from said screen to the lower edge of said wall, said wall and supplemental bottom coacting to form an air pocket exposing an increased portion of said screen for collection of the material passing through said passage and providing for trapping any foreign matter dropping from said screen, said pocket having a door by means of which the foreign matter may be discharged.

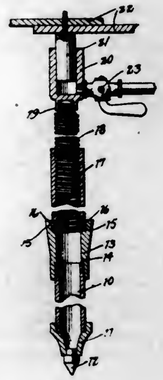
1,349,180. SHEARS. GEORGE P. YEAKEL, Norristown, Pa. Filed Nov. 19, 1918, Serial No. 263,203. Renewed June 30, 1920. Serial No. 393,095. 5 Claims. (Cl. 164—46.)

1. Shears comprising blades, the heels of which are provided with transverse slots, a hub fitted therein to admit of vertical adjustment of the blades with respect thereto, means connected with the blades for causing



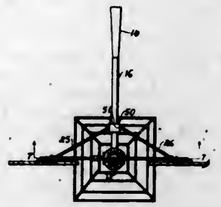
this vertical adjustment, and means for laterally pressing one blade against the other.

1,349,181. SUPPORT. PATRICK J. YOUNG, Philadelphia, Pa. Filed Aug. 23, 1918. Serial No. 251,197. 2 Claims. (Cl. 78—53.5.)



2. A support for use in connection with a riveting machine comprising a standard having a foot, a cap engaged on the upper end of the standard, said cap having a pair of inwardly directed lugs, an internally threaded sleeve engaged with the cap and having a circumferential groove for the reception of the said lugs, and an externally threaded stem engaged in the sleeve and provided with means for supporting engagement with a rivet holder.

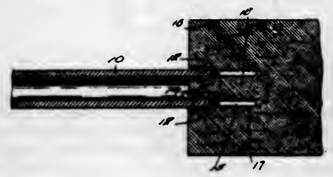
1,349,182. WINDMILL. HERMAN ZAHNOW, Balfour, N. D. Filed June 30, 1919. Serial No. 307,824. 1 Claim. (Cl. 170—38.)



In a windmill, the combination with a tower supporting an upright tubular member, a shaft rotatably mounted

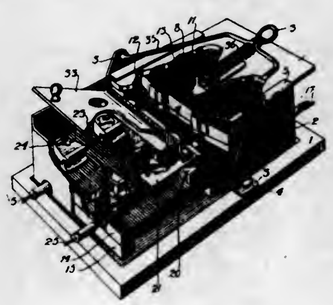
in the latter, and a double faced beveled pinion on the shaft; of collars on said shaft, horizontal arms and oblique braces projecting from said collars to both sides of the shaft, wind wheels mounted in the outer ends of said arms, shafts connected with them and leading inward and having beveled pinions meshing with opposite faces of that mentioned, arms projecting to the rear from certain of said collars and carrying a vane, a block slidably mounted on one of said arms, links pivotally connecting it with said lateral arms, and means drawing the block forward and swinging the lateral arms into position to hold the wheels normally in a single plane, said means yielding under excess wind pressure to permit the wheels to swing back into parallel planes.

1,349,183. MINE PULLEY OR ROLLER. JAMES BOYD ANDERSON, Philadelphia, Pa. Filed Feb. 3, 1920. Serial No. 356,087. 2 Claims. (Cl. 64—41.)



2. A gudgeon for wooden pulleys and rollers comprising a metal tube having the end adapted to be driven into the pulley provided with a cutting edge beveled in opposite directions.

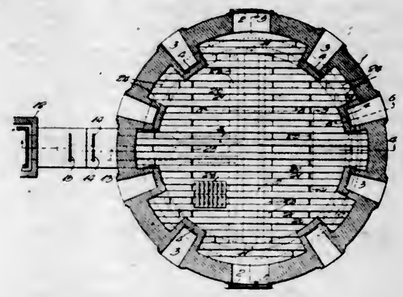
1,349,184. INSTANTANEOUS SAFETY-SWITCH. MIGUEL BUKOVECZ, Mexico, Mexico. Filed Jan. 25, 1919. Serial No. 273,056. 3 Claims. (Cl. 200—50.)



2. An instantaneous reversible safety switch, comprising a casing, an insulating base inclosed therein, three sets of alined stationary contact knives projecting from said base, the end sets of contact knives being diagonally cross connected, and the intermediate set of knives receiving direct current, a slidable cover on the casing, and a set of contact bridge pieces attached to the inside of said cover and adapted to move therewith so as to bridge either of the end sets of knives with the intermediate set of knives.

1,349,185. KILN. CHARLES E. CARPENTER, Postville, Iowa. Filed Nov. 20, 1919. Serial No. 339,353. 8 Claims. (Cl. 25—145.)

1. A kiln bottom comprising a pair of crossed flues communicating with each other at their point of intersection, one of said flues being open at the top to communication with the interior of the kiln and one end of the other flue forming an outlet to a stack, and an annular flue



intersecting and communicating with said crossed flues and being open at the top to communication with the interior of the kiln.

1,349,186. VENTILATOR. LEONORA CHAPMAN, Ariel, Pa. Filed Mar. 8, 1920. Serial No. 364,171. 2 Claims. (Cl. 98—31.)



2. A window ventilator comprising a lengthwise adjustable segmental drum composed of slidably connected arcuate sections, each section including a laterally extending apertured end wall for disposition against the window frame, two bars having laterally bent end which are secured to the end walls and are provided with screw-threaded openings registering with the apertures in the end walls, headed binding screws extending through the threaded openings and apertures, the heads thereof being adapted to bear against the window frame, the free ends of said bars being lapped one on the other, a collar surrounding the lapped ends, and a set screw carried by the collar for retaining the bars in adjusted position.

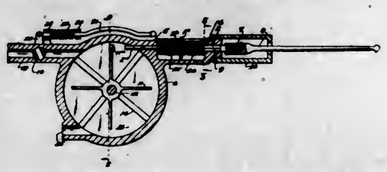
1,349,187. NECKTIE. JOSEPH COSTELLO, New York, N. Y. Filed Sept. 2, 1919. Serial No. 321,043. 1 Claim. (Cl. 2—83.)



A necktie composed of an endless neckband and an apron, the latter being made from a single piece of fabric and being substantially rectangular in shape at one end, the opposed edges at this end being brought inwardly toward each other and stitched together to form an eye,

through which the neckband is freely slidable, portions of the latter being disposed above and below the eye, forming upper and lower loops, the free end of said apron being brought through said upper loop, wrapped partially around the eye and stitched to the rear side thereof, forming an imitation knot, the tie being complete when the free end of the apron is again brought through the upper loop and passed downwardly through the knot.

1,349,188. DENTAL APPLIANCE. GEORGE F. DU BUQUE, Los Angeles, Calif. Filed Jan. 20, 1920. Serial No. 352,790. 4 Claims. (Cl. 32—18.)



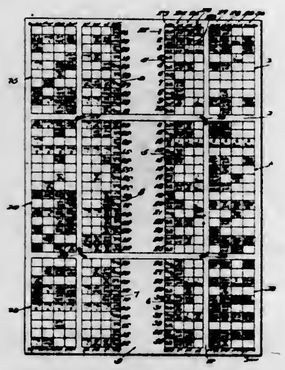
1. A dental engine having, in combination, a reciprocating tool holder; means for maintaining the holder in an intermediate position for yielding action in opposite directions; and means for reciprocating the holder, said means including a pneumatic, rotafy motor.

1,349,189. GAME-CARDS. JAY R. DUNCAN, Kewanee, Ill. Filed May 21, 1919. Serial No. 298,590. 7 Claims. (Cl. 46—25.)



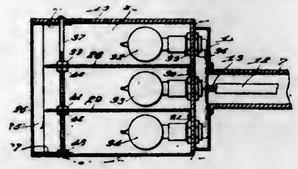
1. A game card deck comprising a number of cards divisible into a plurality of sets of suits, the suits of one set relating to such matter different from that to which the suits of another set relate, and each card being common to a suit of each of the sets.

1,349,190. GAME-BOARD. JAY R. DUNCAN, Kewanee, Ill. Filed Dec. 3, 1917, Serial No. 205,063. Renewed Jan. 6, 1920. Serial No. 349,841. 4 Claims. (Cl. 46—63.)



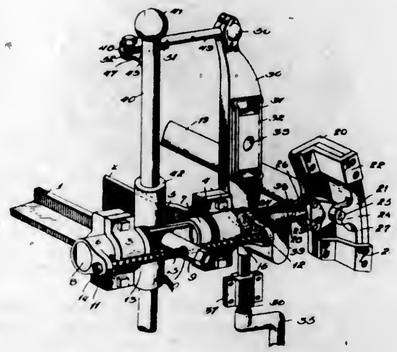
1. A game board, for use in the playing of a game simulating an actual field game, having its playing surface divided into distinct series of zones, each zone of each series being subdivided by intersecting lines into spaces certain of which bear indicia relative to plays to be made upon the board, the indicia within the zones of one series relating to conditions different from those to which the indicia within the zones of another series relates.

1,349,191. DIRECTION-INDICATOR. WOLF H. DUNCOMB, Spokane, Wash. Filed Oct. 14, 1919. Serial No. 330,618. 11 Claims. (Cl. 40—132.)



1. A direction indicator for vehicles and adapted to be attached in lateral projecting relation thereto, comprising a casing having a vertically disposed direction plate facing rearwardly and disposed substantially at right angles to the direction of travel, and said casing having a direction plate facing forwardly and disposed at an oblique angle to the direction of travel and inclined laterally of the vehicle, whereby with a given size casing a front plate of larger area than the rear plate can be used.

1,349,192. LASTING-MACHINE. WILLIAM A. ELLIASSON, Bridgeport, Conn., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Jan. 7, 1918, Serial No. 210,618. Renewed Jan. 7, 1920. Serial No. 350,063. 10 Claims. (Cl. 12—2.)

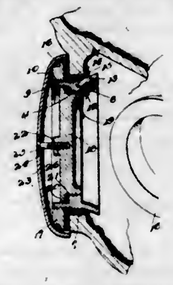


1. In a machine of the class described, in combination, a pincers-bar, a carrier therefor, a slide mounted for reciprocation upon the carrier, means for reciprocating said slide and a pair of compression springs therefor directly interposed between said slide and the carrier for transmitting movement of the slide to the carrier.

1,349,193. WATER-CLOSET BOWL. HARVEY D. FARRIS, Spokane, Wash. Filed Apr. 7, 1919. Serial No. 288,179. 10 Claims. (Cl. 137—76.)

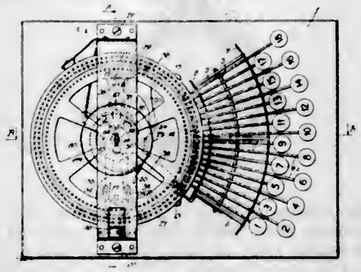
1. A closure for the clean out opening of a bowl comprising a bushing having an opening and a circumferential

expanding surface, a gasket fitted upon the bushing with the expanding surface entering the gasket, means upon



the bushing adjustable to relatively adjust the bushing and gasket to circumferentially expand the latter, and a closure for the opening in the bushing.

1,349,194. ADDING-MACHINE. CHARLES M. FITCH, Chicago, Ill., assignor, by mesne assignment, to Bird Adding Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 25, 1917. Serial No. 176,742. 8 Claims. (Cl. 235—66.)



3. A device of the class described, comprising a numbered rotatable disk, a spring for rotating said disk, a ratchet wheel rigid with said disk, a pawl for engaging said ratchet wheel and normally preventing rotation of the disk under the action of the spring, an arm arranged to oscillate around the axis of said disk and to rock vertically into and out of engagement therewith, a pivoted bail for rocking said arm vertically, said bail being arranged to rock the pawl out of engagement with the ratchet wheel, and manipulative means adapted to rock said bail and limit the rotation of the disk by coöperating with said arm.

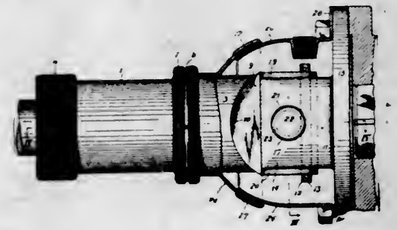
1,349,195. LIFTING-JACK. OTTO E. FLOHR, Tolna, N. D. Filed May 24, 1919. Serial No. 299,542. 1 Claim. (Cl. 254—117.)



A lifting jack comprising a supporting base, a standard rising therefrom with its upper end bifurcated and having a metal strap extending over and connecting the furcations thereof, a substantially elbow-shaped lever fulcrumed intermediately of its ends adjacent the bend thereof between said furcations under said strap, one end of said lever being longer than the other, a lifting bar pivoted at its upper end to the terminal of the short end of said lever, and an upwardly and outwardly inclined spring metal bar fixed at one end to said standard and projecting on the side thereof opposite to that carrying the lifting bar, said metal bar having a hook at its free end for engaging the long end of said lever when in lowered position.

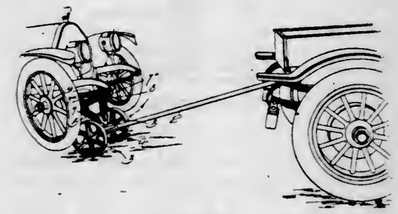
1,349,196. [WITHDRAWN.]

1,349,197. UNIVERSAL JOINT. HARRY B. GARMAN, Detroit, Mich., and DAVID V. BUCK, Milton, Pa., assignors to Charles E. Thompson, Cleveland, Ohio. Filed Jan. 27, 1919. Serial No. 273,373. 3 Claims. (Cl. 64—91.)



1. In a universal coupling device, the combination with driving and driven members, of a female joint element secured to one of said members and formed with a pair of spaced jaws having oppositely disposed bearing surfaces; a male joint element secured to the other of said members and extending into the space between said surfaces, said male member having lateral bearing surfaces; a pair of intermediate elements having bearing surfaces adapted to coöperate with said lateral surfaces, and journal surfaces adapted to coöperate with said oppositely disposed bearing surfaces; a pin whose ends, respectively, are extended into said pair of intermediate elements, said pin having an intermediate journal surface upon which said male element is pivotally mounted, and means for securing together against relatively longitudinal movement said spaced jaws and the adjacent intermediate elements, respectively.

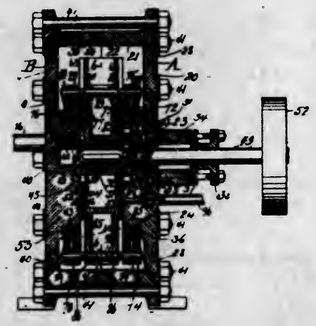
1,349,198. WRECKING-TRUCK. DAN GOULD, Sacramento, Calif. Filed Jan. 19, 1920. Serial No. 352,452. 1 Claim. (Cl. 280—61.)



A device of the class described comprising a wheeled truck, including a vertical pivot which has an apertured head at its upper end, an axle engaging member composed of upper and lower metal strips secured together at their centers, the lower strip having its ends bent down to provide attaching ears, the latter being provided with apertures which are alined with the apertures in said head, a fastening member extending through said apertures, the

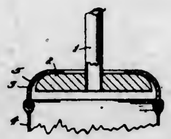
upper strip being bent to form a substantial U and having its ends longitudinally split and forced apart to form V-shaped notches, of a size and depth to receive either a front or rear automobile axle therein, the member itself being of a size to accommodate and straddle the differential housing when a rear axle is seated in said notches.

1,349,199. COMPRESSOR. CHARLES D. HAVENSTRITE, Chicago, Ill. Filed May 27, 1918. Serial No. 236,770. 2 Claims. (Cl. 230—31.)



1. In a compressor the combination of a casing comprising a pair of members, means to connect said members, a shaft journaled in bearings in said members, a hub extending from the inner face of each member of the casing eccentric fo said shaft, a disk shaped piston support having an end face bearing against the end face of one of said hubs carried on the shaft and turning therewith, guide cavities in said support with their axis in radial directions with respect to the shaft, a piston in each cavity, a pair of eccentric straps on each hub, a head formed with each eccentric strap, a spindle extending through bearings at the outer end of each piston, the end of each spindle extending into an opening in one of the heads of one of the eccentric straps, an inlet port and an outlet port formed in the end face of one of the hubs that has bearing against it the said end face of the piston support and means to inject a lubricant into the casing.

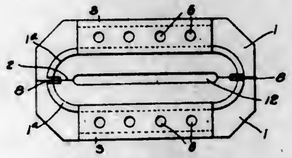
1,349,200. GLASS-DRAWING BAIT AND THE METHOD OF USING IT. HALBERT K. HITCHCOCK, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Oct. 23, 1917. Serial No. 198,186. 8 Claims. (Cl. 49—17.)



1. A glass drawing bait having a glass engaging portion of a metal with a coefficient of expansion substantially the same as that of glass.

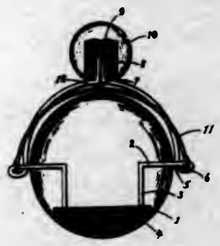
6. The process of drawing glass cylinders which consists in immersing the relatively thin lower edge of a metal bait of a material having substantially the same coefficient of expansion as glass, in a body of molten glass, permitting the bait to remain in the glass until the glass is welded thereto, drawing the bait upward, severing the cylinder thus produced at a point adjacent the bait, immersing the annular glass edge left upon the bait in the body of molten glass and drawing another cylinder.

1,349,201. APPARATUS FOR DRAWING GLASS SHEETS. HALBERT K. HITCHCOCK, Pittsburgh, Pa., assignor of one-half to Hitchcock Experiment Company, a Corporation of New Jersey. Filed Aug. 5, 1918. Serial No. 248,444. 13 Claims. (Cl. 49—17.)



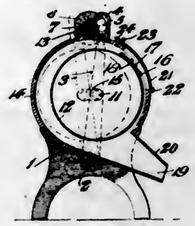
7. A container for glass approximating in length the width of the glass sheet to be produced and comprising side and end walls downwardly and inwardly inclined, and heating chambers along the side walls only.

1,349,202. ROTARY CHARACTER TOY. EUGENE HOLBROOK and MOLLIE E. HOLBROOK, Oakland, Calif. Filed Mar. 12, 1918. Serial No. 222,027. 3 Claims. (Cl. 46—45.)



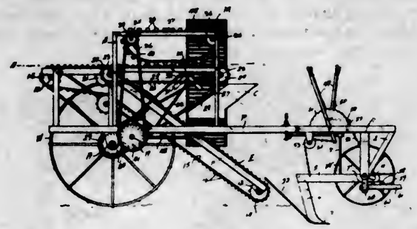
1. The combination in a toy, of a hollow rotary body with a head or figure having arms flexibly connected thereto, said head or figure supported over said body by means having a U shaped member formed solid with the axle portion and a weight rigidly attached thereto inside of said body; the vertically extending companion portions of said supporting means being joined together over center of said body securing a cork or fibrous member, and a permanent connection between said member and said head or figure, substantially as described.

1,349,203. MIXER AND SEPARATOR. CHARLES W. HOTTMANN, Philadelphia, Pa., assignor to Christopher Offenhauser, Philadelphia, Pa. Filed Mar. 20, 1920. Serial No. 367,326. 6 Claims. (Cl. 259—72.)



1. In a device of the character stated, an outer casing having a discharge outlet and provided with an inlet opening, an article container within said outer casing, crank arms on which said article container is mounted, means to actuate said crank arms, and means to continuously revolve said article container.

1,349,204. VEGETABLE-TOPPER. CLARENCE W. HOUGLAND, Seal Beach, Calif. Filed Dec. 10, 1919. Serial No. 343,786. 2 Claims. (Cl. 146—11.)



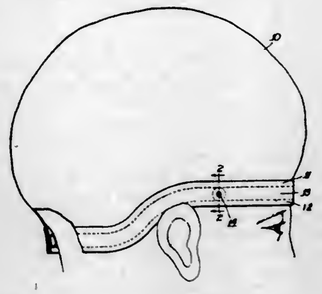
1. A machine of the class described comprising an endless feed member having its upper stretch substantially horizontally disposed, a severing medium positioned adjacent said feed member, an endless retaining member positioned above the feed member, the lower stretch of the retaining member being slack and engaging by gravity the upper stretch of the feed member, and means for imparting movement to the feed member and the retaining member at substantially the same rate of travel.

1,349,205. OFFSET STYLUS-ARM. JAMES W. HUGHES, Philadelphia, Pa. Filed Jan. 14, 1920. Serial No. 351,302. 6 Claims. (Cl. 274—28.)



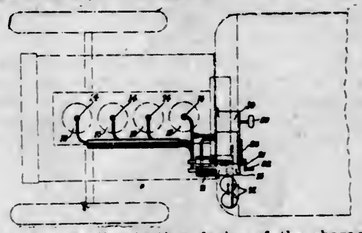
1. An offset stylus arm having means to engage the inside and outside of the chuck of the stylus lever.

1,349,206. BATHING-CAP. OWEN R. JEFFERS, Chicago, Ill., assignor to General Patent Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 30, 1917. Serial No. 183,437. 3 Claims. (Cl. 2—106.)



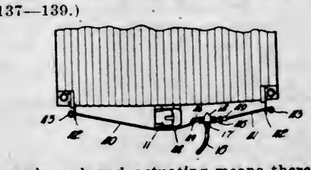
1. A bathing cap having its lower edge provided with an inner pneumatic tube and an outer relatively broad and heavy contractible and expansible band, said band curved edgewise to extend when in place from the forehead to a point back of the ears and thence downwardly around the back of the neck.

1,349,207. STARTER FOR AUTOMOBILES. DAMIAN JOKUBAITIS, Terre Haute, Ind. Filed Oct. 15, 1919. Serial No. 330,707. 1 Claim. (Cl. 123—184.)



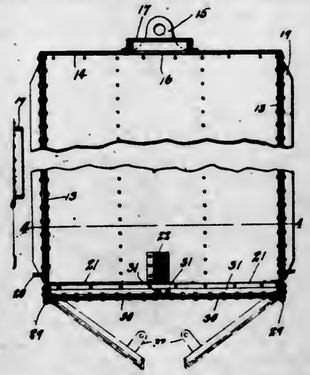
In an automobile starting device of the character described, the combination of an operating spring and its drum carrying a spur driving gear, with a pivotally arranged locking lever, a series of detent teeth on the free end of said lever engaging the teeth of said gear, an operating rod attached to said lever, a spring coiled around said rod for holding the teeth of its detent normally in engagement with the teeth of said gear, and an operating handle adapted to disengage the teeth of said detent and gear upon a pull exerted on said handle, and a long pinion in mesh with said gear adapted to be rotated upon the operation of said locking lever to disengage the teeth of said detent and gear, said long pinion adapted to start the ignition of the machine, substantially as described and for the purpose set forth.

1,349,208. ANGLE-COCK AND ACTUATING MEANS THEREFOR. PAUL J. KAVENEY, Bloomington, Ill. Filed Jan. 21, 1920. Serial No. 353,053. 8 Claims. (Cl. 137—139.)



1. An angle cock and actuating means therefor for use on railway cars, comprising in combination with an angle cock, embracing a casing and a closure member provided with horizontal, oppositely disposed stems, actuating devices connected at their inner ends to said closure member stems and extending outwardly therefrom, and means at the sides of the car to support said actuating devices.

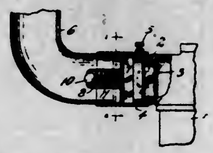
1,349,209. INTERCHANGEABLE-UNIT CAR. HENRY W. KIRCHNER, St. Louis, Mo., assignor to River and Rail Transportation Company, St. Louis, Mo., a Corporation of Oklahoma. Filed Dec. 22, 1917. Serial No. 208,363. 19 Claims. (Cl. 105—366.)



7. In a car of the class described, a removable container, drop bottom doors normally closing the bottom of

said container, latching means on the container for engaging the sides of the doors, and means extending through the lower portion of the container for simultaneously releasing the latching means.

1,349,210. AIR-SUPPLY-VALVE ATTACHMENT. MONROE C. KIRKPATRICK, Files Valley, Tex., assignor of one-fourth to Tim Kirkpatrick and one-fourth to William M. Shippey, Ellis County, Tex. Filed Jan. 24, 1918. Serial No. 213,457. 2 Claims. (Cl. 261—121.)



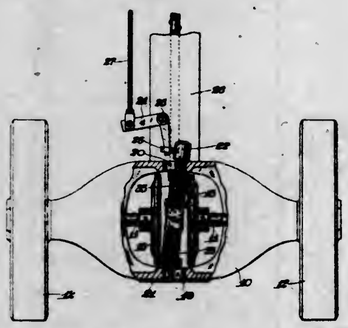
1. An air supply attachment for a carbureter, comprising a collar adapted to receive in one end thereof the inlet of the carbureter, said collar having its periphery imperforate and being straight and having its opposite ends open for providing a straight open ended bore, a transverse partition arranged within the collar and spaced from the ends thereof and provided with a substantially central opening and apertures surrounding the opening, a valve sleeve extending longitudinally within said collar and secured to the partition and surrounding said opening, said valve sleeve having its free end extending inwardly to provide a valve seat, a valve arranged within the valve sleeve to engage the valve seat, and a spring arranged within the valve sleeve and engaging the valve.

1,349,211. STOVE-LID LIFTER. JOHN H. LAMBERT, Belvidere, Ill., assignor of one-half to John W. Eldredge, Belvidere, Ill. Filed May 31, 1919. Serial No. 300,860. 3 Claims. (Cl. 294—13.)



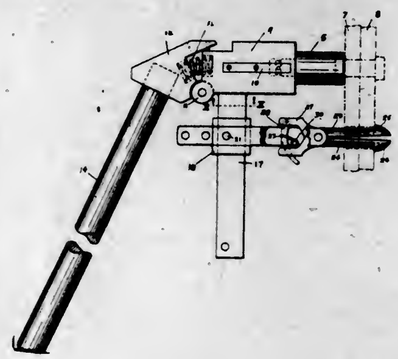
1. A stove lid lifter comprising a handle lever having a recess therein; a jaw lever pivoted to the handle lever and having a recess therein; a clamp lever pivoted to the jaw lever and engaging the handle lever; and a spring having its ends disposed against the bottoms of said recesses, the sides of said recesses holding the spring against displacement.

1,349,212. TWO-WHEEL DRIVE. HENRY LAVE, Milwaukee, Wis. Filed June 3, 1918. Serial No. 238,026. 6 Claims. (Cl. 74—58.)



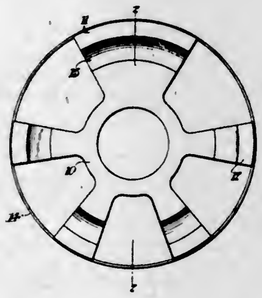
1. A two wheel drive for automobiles and the like, comprising a drive shaft, a pinion thereon, a swinging shaft, a pinion mounted on said swinging shaft and meshing with the pinion of the drive shaft, a pair of pinions on the swinging shaft turning therewith and positioned on opposite sides of the fulcrum of the swinging shaft, and drive wheel shafts, each having a gear wheel alternately engaged by the pinions respectively in the extreme positions of the swinging shaft.

1,349,213. PRESSURE-BAR. OSCAR A. LAWRENCE, San Francisco, Calif. Filed Mar. 31, 1919. Serial No. 286,618. 10 Claims. (Cl. 78—53.5.)



1. In a device of the character described, the combination of an anvil base; an anvil removably secured in said base; gripping means, adapted to enter a rivet hole, parallel with said anvil base for holding the anvil in alinement with a rivet to be driven, and a spring pressed member attached to said anvil base for holding the same against a rivet to be driven.

1,349,214. SHUTTER FOR MOVING-PICTURE MACHINES. JOSEPH H. LEHMAN, New York, N. Y. Filed Jan. 2, 1915. Serial No. 33. 15 Claims. (Cl. 88—19.3.)

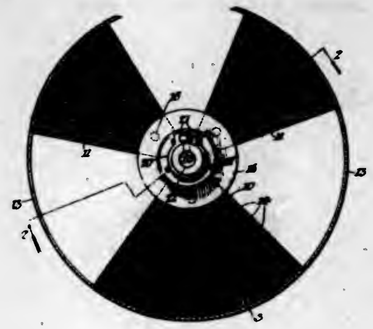


12. In a motion picture machine, a shutter comprising a body of transparent material having means for diffusing or destroying the focus of the rays going to the screen while maintaining the area of illumination upon, and the amount of light going to, the screen substantially constant at all times.

1,349,215. SHUTTER FOR MOVING-PICTURE MACHINES. JOSEPH H. LEHMAN, New York, N. Y. Filed Oct. 27, 1915. Serial No. 58,158. 8 Claims. (Cl. 88—19.3.)

1. A shutter for moving picture machines, including an obscuration blade formed of transparent celluloid and

having one plane surface and having the opposite surface thereof presenting a series of ridges of comparatively



low altitude in respect to their width and serving as light refractors.

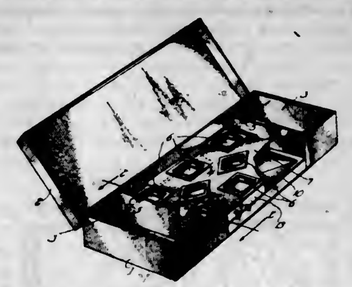
1,349,216. BRAKE MECHANISM FOR TALKING-MACHINES. THOMAS H. LOY, Terre Haute, Ind. Filed Jan. 10, 1917. Serial No. 141,633. 21 Claims. (Cl. 74—46.)



1. In brake mechanism for graphophones or the like, the combination with a turn table and a reproducer arm movable relatively thereto, of braking means including means for holding the same in brake applied and retracted positions with respect to the turn table, and release means operable coincident with the initial movement of the reproducer arm to playing position and engageable with said braking means to retract the same upon movement of the reproducer arm a predetermined extent in one direction, said release means being arranged to cause the braking means to be applied while the reproducer arm continues moving in its playing operation whereby to stop the turn table upon a greater degree of movement of the arm in the same direction as aforesaid.

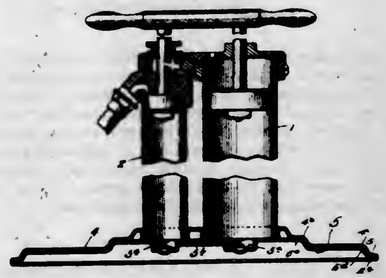
1,349,217. WATER-COLOR-PAINT OUTFIT. JOHN P. MENTZER, Chicago, Ill. Filed Nov. 28, 1919. Serial No. 341,101. 11 Claims. (Cl. 41—4.)

1. A water color paint outfit comprising a box, water pans at the opposite ends of the same, a support for paints located between said water pans and provided with



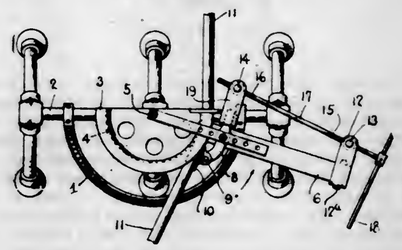
means for holding paints, and a mixing pan also located between said water pans.

1,349,218. PUMP. JOHN C. MOON, St. Louis, Mo. Filed Nov. 26, 1917. Serial No. 204,041. 2 Claims. (Cl. 103—65.)



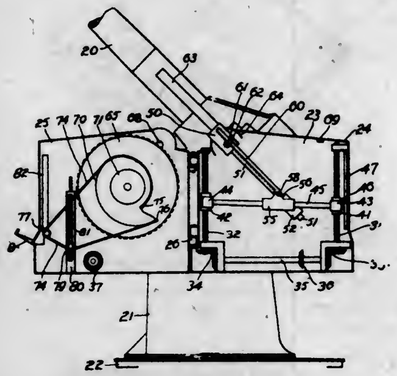
1. A pump base comprising a top plate having a plurality of flanged bosses to which pump cylinders are adapted to be secured, said plate having a marginal flange and reinforcing stepped portions, and a bottom plate forming in conjunction with the top plate a conduit or duct leading from one flanged opening to the other, said bottom plate having reinforcing stepped portions which are nested together within the stepped reinforcing portions of the top plate, said bottom plate also having a marginal flange around which the edge of the top plate is folded for the purpose of securing the plates together.

1,349,219. PIPE-BENDER. GEORGE R. MOORE and CHESTER S. LEONARD, Philadelphia, Pa. Filed Oct. 2, 1919. Serial No. 327,867. 8 Claims. (Cl. 153—39.)



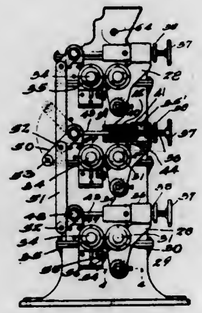
1. An organized pipe-bending mechanism comprising in combination a form, a positioning lever, means for holding the positioning lever against swinging movement in one direction, pipe-bending means carried by and movable on the positioning lever, and means on the positioning lever to actuate the pipe-bending means individually.

1,349,220. AUTOMATIC FUSE-SETTER FOR ANTI-AIRCRAFT ARTILLERY. ROBERT V. MORSE, Ithaca, N. Y., assignor to Morse Instrument Company, Inc., Ithaca, N. Y., a Corporation of New York. Filed Oct. 10, 1919. Serial No. 329,697. 10 Claims. (Cl. 89—41.)



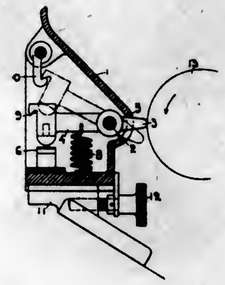
1. In a fire control mechanism, the combination of a member having an angular movement, an adjustable member which can be set for various altitudes, a movable connecting means whose motion is determined by the aforesaid members, a cam shaped element, gearing connecting the movable connecting means to the cam shaped element, a fuse setter, a toothed wheel for operating the fuse setter, a chain connecting the cam shaped element to the toothed wheel, and means for keeping the chain taut.

1,349,221. MILL. ROBERT RUFUS NOLEN, Dallas, Tex. Filed June 17, 1918. Serial No. 240,508. 1 Claim. (Cl. 83—12.)



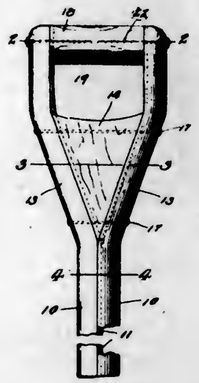
In a mill, the combination with a frame, a non-adjustable roll mounted therein, and an adjustable roll arranged to coact with the non-adjustable roll, of swinging arms carried said frame, said adjustable roll being secured thereto, an eccentric pivotally mounted on the frame adjacent each swinging arm, a housing arranged on each of the swinging arms, a plunger arranged in each of said housings, a coil spring arranged within said housing and engaging said plunger, the free end of said pitman being connected to said plunger, and an adjusting screw arranged in said housing and having a slot in its inner end, a transverse rod carried by said plunger, said rod being adapted to enter said slot to permit adjustment of the plunger when the screw is turned and to permit separation of the plunger and adjusting screw when the adjustable roll is moved outwardly.

1,349,222. MEANS FOR AUTOMATICALLY CUTTING OFF THE FEED-MOTION OF MACHINE-TOOLS. NILS JOSEF OLSSON, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed June 22, 1918. Serial No. 241,392. 3 Claims. (Cl. 51—165.)



1. In a device for automatically cutting off the feed motion of machine tools, the combination of a pivoted trip member one end of which engages the unfinished work and thereby holds it in inoperative position, and means controlled thereby to operate a feed motion cut off, the member being released from engagement with the work substantially at the instant when the work has reached a predetermined size and thereby actuating the operating means of the feed cut off.

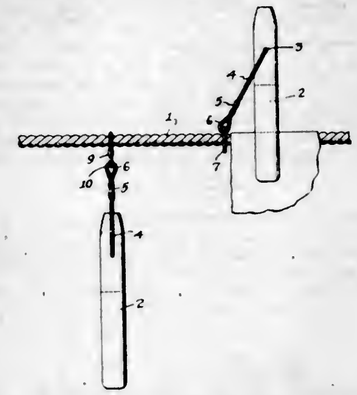
1,349,223. IMPLEMENT-HANDLE. CHARLES H. RIETH, St. Louis, Mo. Filed Dec. 8, 1919. Serial No. 343,209. 8 Claims. (Cl. 294—57.)



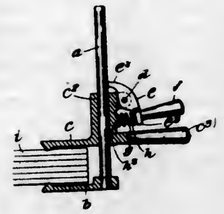
1. As a new article of manufacture, an implement handle comprising a pair of straight grained wooden strips connected to each other by a glue joint, said strips being spread apart at one end to form diverging end portions, and a wedge block inserted between said diverging end portions.

1,349,224. CLOTHESPIN. ADA ROEHR, Brooklyn, N. Y. Filed Apr. 12, 1919. Serial No. 289,680. 2 Claims. (Cl. 24—137.)

1. In combination with a clothes pin provided with opposite bores affording journal bearings, a holder formed of a single piece of wire bent to provide a pair of arched arms adapted to receive the pin above said bearings, and also to provide a pair of normally inturned journal pins adapted to enter said bearings, said holder also having a twisted portion above said arched portion making a stiff body member terminating in an eye, and means coöperating with said eye for detachably securing the holder to a line.

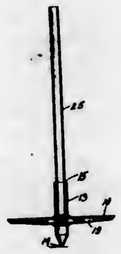


1,349,225. CLAMP DEVICE. HENRY I. ROSENBLUM, New York, N. Y. Filed Mar. 27, 1919. Serial No. 285,622. 4 Claims. (Cl. 223—54.)



1. A clamp device of the class described comprising a rod or shaft, a bottom jaw member mounted on the lower end portion of said rod or shaft, and a vertically adjustable jaw member mounted on said rod or shaft above the first named jaw member and provided with a sleeve through which the rod or shaft passes, said sleeve being provided with a projecting handle member above which is pivoted a spring-controlled pawl adapted to bear on said rod or shaft and provided with a handle.

1,349,226. SPINNING-TOP. HERMAN C. SAUTER, New York, N. Y. Filed Jan. 8, 1920. Serial No. 350,175. 1 Claim. (Cl. 46—32.)



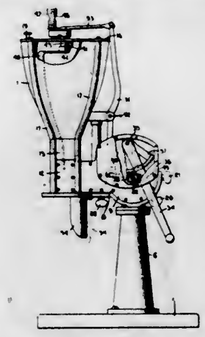
A spinning top comprising a hollow pointed spindle provided a substantial distance above its point with two spaced peripheral grooves, said grooves extending in planes at right angles to the longitudinal axis of said spindle, a disk having a central opening fitted into the upper one of said grooves, a star-shaped concaved body having a central opening fitted into the lower one of said grooves, said star-shaped body abutting against the underface of said disk and being fixed thereto to form passages extending from said spindle to the periphery of said disk, a plurality of apertures in said spindle between its grooves, and a shoulder on the inner face of said spindle disposed above said grooves.

1,349,227. COMBINATION CHAIR AND SOFA. JOHN SHKOR, Sparrows Point, Md. Filed Jan. 13, 1920. Serial No. 351,188. 1 Claim. (Cl. 155—49.)



A combination chair and couch comprising a seat element, a back element hinged to said seat element, a head rest hinged to said back element, adjustable legs carried by said back element, and a common means for supporting said back element in raised position when the device is in use as a chair, and said head rest in a slightly inclined position when the device is in use as a couch, said means comprising a pair of rods hinged to the back element and adapted to be attached either to the seat element or to the head rest.

1,349,228. SUGAR-DISPENSER. JUDSON L. SIMPSON, Kennebunk, Me., assignor of one-half to Asa A. Wheeler, Somerville, Mass. Filed Feb. 17, 1917. Serial No. 149,340. 6 Claims. (Cl. 221—112.)



1. In a device for dispensing powdered or granular material of the type comprising a container having a discharge passage and two slides situated at different points along said passage and forming between them a measuring chamber, the combination with a casing or housing having said discharge passage formed therein and also being formed with a chamber in which said slides are received and which is provided on opposite sides with grooves in which said slides are guided, each slide having a forked end, a cam operating in the forked ends of said slides and provided with a cam groove on each face, the upper slide having an extension depending from one arm of the forked end and operating in one of said grooves and the lower slide having an extension rising from one arm and provided with an extension operating in the other groove.

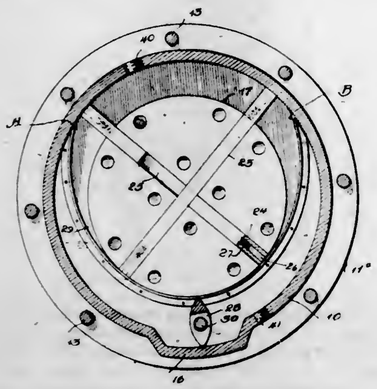
2. In a device for dispensing powdered or granular material of the type comprising a container having a discharge passage and two slides situated at different points along said passage and forming between them a measuring chamber, the combination with a casing or housing having said discharge passage formed therein and also provided with two chambers, one of which contains guides for the slides, of an actuating cam situated in said chamber and operatively connected to said slides, an oscillatory handle pivoted in the other chamber and extending through the wall thereof, a pinion connected to said cam, and a segmental gear rigid with said handle and situated in said latter chamber.

3. In a dispenser of the type having a container provided with a discharge passage and two slides situated at different points along said passage and forming between them a measuring chamber, a cam connected to said slides, a shaft on which said cam is mounted, a crank connected to said shaft, a lever pivotally connected to said crank, a pivotally-mounted stirrer situated within said container, a connection between said lever and said stirrer, and means to turn said shaft.

4. In a dispenser of the type comprising a container having a discharge passage and two slides situated at different points along said passage and forming between them a measuring chamber, the combination with a cam connected to said slides, of a shaft on which said cam is mounted, a crank arm fast to said shaft, a lever connected to said crank arm, a stirrer pivotally mounted in the top of the container and having a crank arm connected thereto, a connection between said lever and said latter crank arm, and means to actuate said shaft.

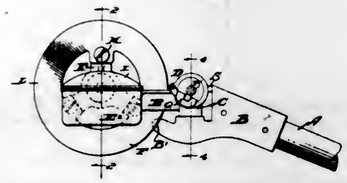
5. In a dispenser, the combination with a container having a discharge passage, of two slides situated at different points along said passage and forming between them a measuring chamber, a cam for actuating said slides alternately to effect the discharge of measured quantities of material from said container, a stirrer depending into the container from the top thereof, and means connecting said stirrer with said cam.

1,349,229. GEARLESS ROTARY CLUTCH AND TRANSMISSION MECHANISM. ONIAS C. SKINNER, Montrose, Colo. Filed Sept. 16, 1919. Serial No. 324,068. 2 Claims. (Cl. 192—18.)



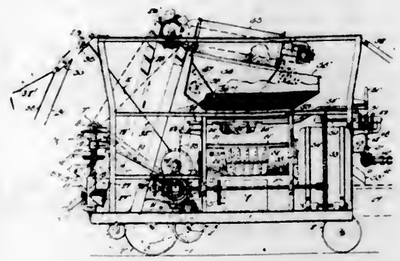
1. In combination with driving and driven shafts, a cylindrical casing mounted on one of the shafts, a cylindrical rotor mounted on the second shaft and arranged within the casing, the periphery of the rotor and the peripheral wall of the casing being separated and concentric to the axial center of the rotor, the intervening space constituting an annular liquid chamber also concentric to the axial center of the rotor, the peripheral wall of the casing being provided with a well, a blade carried by the rotor and engaging the portion of the peripheral wall of the casing remote from the well, a rotary valve arranged within the liquid chamber at a point substantially midway the well, said valve being substantially elliptical in cross section with its major cross sectional dimension substantially equal to the space between the periphery of the rotor and the base of the well, said valve when radially disposed with respect to the rotor, preventing the flow of the liquid within the chamber, the side faces of the valve when the valve is in an open position permitting the liquid to freely flow thereover, and means for imparting rotary movement to the valve.

1,349,230. TROLLEY-WHEEL. CHARLES P. SKUBLIN, Detroit, Mich., assignor to William A. Adams, Detroit, Mich. Filed June 19, 1919. Serial No. 305,232. 6 Claims. (Cl. 64—70.)



1. In a device of the character described, a trolley wheel, a removable fitting in which the trolley wheel is journaled, a bracket adapted for attachment to the end of a trolley pole, having an upstanding pintle with opposite flattened faces, and a pair of opposing spring actuated plungers supported in the fitting adapted to bear upon the flattened sides of the pintle to yieldingly maintain the trolley wheel in alinement with the trolley pole.

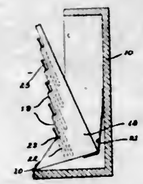
1,349,231. SELF-LOADING CONCRETE MIXING AND DISTRIBUTING MACHINE. HUGO O. STAMP, Milwaukee, Wis. Filed May 6, 1918. Serial No. 232,785. 35 Claims. (Cl. 214—17.)



1. In a portable loading and distributing machine of the character described comprising a receiving truck, an adjustable delivery conveyer, a distributing conveyer, means for operating the distributing conveyer and means controlled by adjustment of the delivery conveyer for preventing operation of the distributing conveyer.

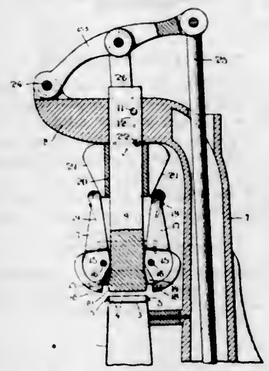
1,349,232. NEEDLE-HOLDER. JOHN STANKO, Kooi, Wyo. Filed May 24, 1919. Serial No. 299,441. 2 Claims. (Cl. 206—16.)

2. In a needle holder, the combination with a hollow rectangular casing, a cover hingedly engaged therewith, and means for securing said cover when in a closed position, of a block pivoted at its base near the marginal edges of said casing, and adapted to be received wholly therewithin, a plurality of recessed steps formed in said block, cork inserts secured in the recesses, said cork inserts being receptive of sharpened cylindrical implements, an elastic tape secured within said casing upon the bottom wall



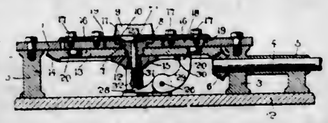
thereof at one end, and upon the base of said block at the other end whereby said block is forced outwardly when the cover is released, and a sharpening means secured upon the inner surface of said cover, adapted to be used in connection with said implements.

1,349,233. MACHINE FOR CAPPING MULTISIDED PAPER BOTTLES. LEONARD DEE STEPHENSON, New York, N. Y., assignor, by mesne assignments, to Paper Bottle and Can Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Nov. 15, 1917. Serial No. 202,177. 1 Claim. (Cl. 113—18.)



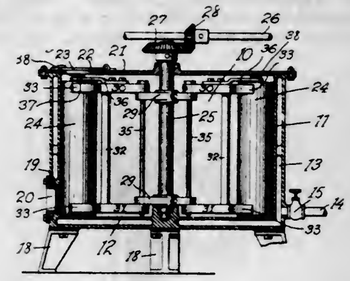
In a machine for securing metal caps to multi-sided paper bottles, a suitable support, a plunger movable therein and having a tapered head for flaring the inner cap walls and the top sides of the bottle, crimping jaws carried by the plunger for clamping the top sides of the bottle between the inner and outer cap walls, and means for controlling the operation of the plunger and crimping jaws comprising a wedge block having a lost motion connection with the plunger and wedge block operating means.

1,349,234. MACHINE FOR CAPPING MULTISIDED PAPER BOTTLES. LEONARD DEE STEPHENSON, New York, N. Y., assignor, by mesne assignments, to American Paper Bottle and Can Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Nov. 15, 1917. Serial No. 202,178. 6 Claims. (Cl. 113—18.)



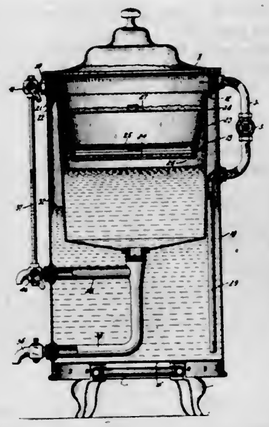
1. In a machine for securing metal caps to multisided paper bottles, a table having a projection fitting within the cap, crimping jaws movable along the table, an ejector working through the table, and a cam rotating underneath the table for controlling the movements of the jaws and the ejector.

1,349,235. CHOCOLATE-DEVELOPING MACHINERY. OSCAR M. STOUT, Brooklyn, N. Y. Filed May 22, 1919. Serial No. 298,925. 2 Claims. (Cl. 83—45.)



2. A machine of the character described comprising a cylindrical container having an imperforate vertical side wall, a centrally disposed shaft therein, a plurality of rollers, said rollers being of a length substantially equal to the height of the said side wall, means for supporting said rollers adjacent the wall of the said container and in diametrically opposite relationship, said means comprising arms secured to said shaft, levers pivoted on said arms and forming obtuse angles therewith, said levers having bifurcated ends adapted to receive the said rollers, the cylindrical surfaces of which rest within and against said bifurcated ends, means for pivotally suspending said rollers from the said levers and means for rotating said shaft in the direction opposite to that indicated by the apex of the said obtuse angles.

1,349,236. COFFEE-URN. HENRY STROHBACH, New York, N. Y. Filed Sept. 30, 1919. Serial No. 327,536. 2 Claims. (Cl. 53—3.)

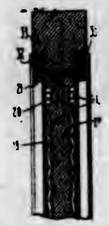


1. In an urn, the combination with a boiler, of an extract-holding receptacle therein, a coffee-holding vessel extending into said receptacle, a pipe leading from a point adjacent the bottom of said boiler above said vessel.

a delivery pipe leading from the bottom of said receptacle, and a gage connected at its lower end with said delivery pipe and at its upper end with the steam space of the boiler.

1,349,237. [WITHDRAWN.]

1,349,238. FILTER. ERNEST J. SWEETLAND, Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation, a Corporation of Delaware. Filed Mar. 30, 1915. Serial No. 17,968. 4 Claims. (Cl. 210—195.)



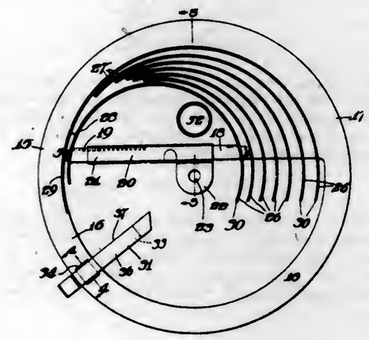
1. In a filter of the plate and frame type, a filter plate having the central web portion thereof reduced in thickness to provide drainage areas on opposite sides thereof, a filter fabric section extending over each of the drainage areas, a sheet of reticulated spacing material arranged under each of the filter fabric sections, means upon the plate for positively clamping the edges of the filter fabric sections to the plate, and sealing means also extending around the edges of the filter fabric sections and engaging both the said edges and the plate to provide a tight joint, said sealing means being carried by the plate and providing means for sealing the joints between the plate adjacent filter frames.

1,349,239. WORK-FEEDING MECHANISM FOR CHANNELING-MACHINES. FELIX E. VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Nov. 15, 1917. Serial No. 202,136. 6 Claims. (Cl. 12—27.)



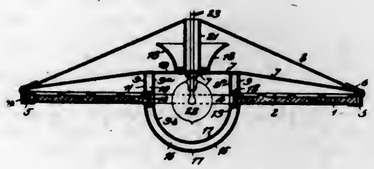
4. A feed attachment for channeling machines comprising, in combination, a box-like casing or receptacle having a detachable cover, with an opening therein, a stub-shaft fixed in the opposite wall of the casing and concentric with said opening, a combined gear and feed-wheel loosely mounted upon said shaft and extending through said opening, a second stub-shaft within the casing, a second gear mounted thereon and meshing with said first gear, and a power shaft journaled within opposed openings in said casing and having fixed thereto a gear meshing with said second gear.

1,349,240. REPEATING DEVICE FOR TALKING-MACHINES. GEORGE F. VOITH, Philadelphia, Pa. Filed June 20, 1919. Serial No. 305,512. 4 Claims. (Cl. 274—15.)



1. A repeating device of the character described including a plate having a toothed rack; transfer rails on said plate; and a coupling member slidably connected to said plate and having a centering hole therein, said coupling member having a resilient portion providing a lug normally adapted to enter between the teeth of said rack and thereby lock the coupling member to the plate; substantially as described.

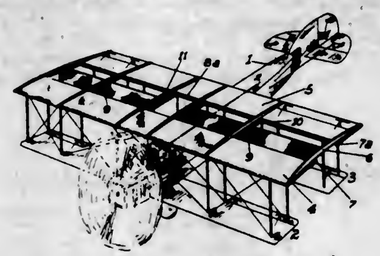
1,349,241. LIGHT-DISTRIBUTER. VINCENT WALSH, New York, N. Y. Filed Jan. 4, 1919. Serial No. 269,588. 7 Claims. (Cl. 240—92.)



1. In a light distributer, a transparent plate having an aperture through the same, an opaque housing over said aperture, a frame to support said plate and a lighting medium suitably supported and suspended in said aperture and housing, and adapted to pass rays of light into said plate through its aperture rim.

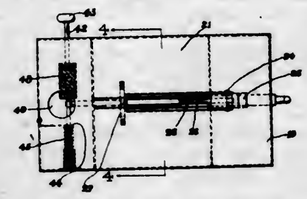
1,349,242. LANDING DEVICE FOR AEROPLANES. ALANSON C. WARREN, Stockton, Calif., assignor of one-half to Volet May Warren, Stockton, Calif. Filed July 30, 1919. Serial No. 314,255. 1 Claim. (Cl. 244—12.)

In an aeroplane having biplanes arranged in tandem, rigid stringers at spaced intervals connecting the upper wings of said biplanes, and a flexible curtain structure adapted to be rolled up positioned between said upper



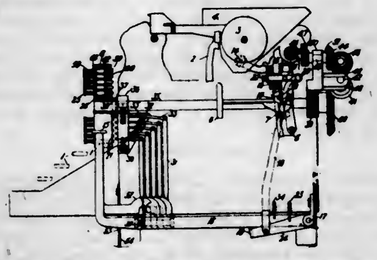
wings directly under the stringers, whereby the curtain is braced against air pressure thereunder when in use.

1,349,243. MATCH-BOX. JOSEPH M. WEREMKO, Herrick, Ohio. Filed Oct. 29, 1919. Serial No. 334,270. 1 Claim. Cl. 206—26.)



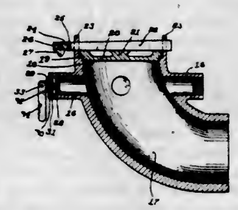
In a device of the class described, the combination with a hollow rectangular casing, and a base hingedly engaged therewith, of spring elements arranged transversely in said base, oblique plates secured rigidly on said base, said oblique elements approaching each other at their upper edges and providing a reservoir for matches, a slide movable longitudinally in said casing, means for controlling the ultimate movements of said slide, forked forward ends on said slide adapted to receive a match from the mentioned reservoir, means for guiding said slide, gripping elements formed with the forked ends of said slide adapted to engage with a match whereby it may be projected or retracted, said casing having a circular opening near its front end into which said match end may be projected, a rod movable transversely through said casing, an abrader carred by said rod adapted to contact with the end of a match adjacent to the mentioned opening, means for normally holding said abrader in a retracted position, and means for expelling a match coincident with the withdrawal of said slide.

1,349,244. TYPEWRITING-MACHINE. WILLIAM L. WHITE, Birmingham, Ala., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 14, 1918. Serial No. 262,428. 13 Claims. (Cl. 197—177.)



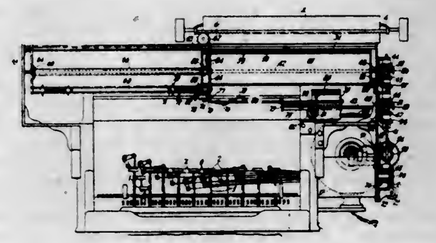
1. In a typewriting machine, the combination with a traveling carriage, a revolving disk, and gearing for causing the disk to always revolve with the traveling carriage, of stops settable on said disk in concentric circles, an escapement normally holding said carriage, an arresting arm for each circle of stops, and key-operated means for making any arresting arm effective to arrest the carriage by any set stop in the circle with which it coöperates.

1,349,245. CLEAN-OUT HEADER FOR SEWER-ENTRANCES. JOHN F. WITT, Winchendon, Mass. Filed July 24, 1919. Serial No. 313,021. 1 Claim. (Cl. 137—76.)



In a device of the class described, the combination with a curved header open at both ends, said header having a conical passage therethrough, a plurality of internally threaded inlet openings entering the larger end of said header, plugs adapted to be screwed into said inlets, stems and plate covers on said plugs, and lever handles secured to said plates for the operation of said plugs, the upper end of said header having a circular recess, a cover suited thereto, lugs extending up from said header upon opposite sides, said lugs having an opening, a taper key adapted to pass through the openings in said lugs and press said cover upon its seat, a detent latch pivoted in an opening formed in the smaller end of said key adapted to prevent the removal of said key, means for locking said latch in position and a packing ring disposed between said cover and its seat.

1,349,246. COMBINED TYPEWRITING AND COMPUTING MACHINE. WALTER WRIGHT, New York, N. Y., assignor, by mesne assignments, to Underwood Computing Machine Company, a Corporation of New York. Original application filed Apr. 20, 1908, Serial No. 428,020. Divided and this application filed July 14, 1917. Serial No. 180,508. 30 Claims. (Cl. 235—59.)



1. The combination with a totalizer having a series of computing wheels, of a master wheel traveling step by step to register individually with said computing wheels, a carriage for traversing said master wheel, a second totalizer, a master wheel for said second totalizer, a carriage for traversing said second master wheel step by step to come in register with the computing wheels of said second totalizer individually, and means for traversing

said second-mentioned master-wheel carriage from said first-mentioned master-wheel carriage.

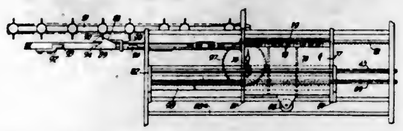
2. The combination with a long totalizer having a series of computing wheels, of a master wheel traveling relatively to said computing wheels to drive them one by one in groups to compute in several computing zones or major columns, a carriage for traversing said master wheel, a short totalizer having a plurality of computing wheels of at least the capacity of one of the groups of computing wheels of said long totalizer, a master wheel for driving the computing wheels of said short totalizer one by one, a carriage for traversing said second-mentioned master wheel, and means for intermittently traversing said second-mentioned carriage and master wheel with said first-mentioned carriage, so that said second-mentioned wheel may drive the computing wheels of said short totalizer repeatedly in separate synchronism with the computing wheels of different groups of said long totalizer.

3. The combination with a long totalizer having a series of computing wheels capable of being computed in groups to correspond with separate computing zones or major columns, of a master wheel driving said computing wheels one by one, a carriage for traversing said master wheel step by step, a short totalizer having a plurality of computing wheels equal in number at least to the number of computing wheels in a group of said long totalizer, a master wheel for driving the computing wheels of said short totalizer one by one, a carriage for traversing said second-mentioned master wheel step by step, a hook on said second-mentioned carriage, and a plurality of pick-up stops located on said first-mentioned carriage at intervals corresponding to a predetermined grouping of the computing wheels of said long totalizer, and arranged to engage said hook one by one to traverse said second-mentioned carriage and master wheel, from said first-mentioned carriage repeatedly for short periods inclusive of the long period of travel of said first-mentioned carriage and master wheel.

4. The combination with a typewriter carriage, of a totalizer including a series of computing wheels, a master wheel for driving said computing wheels one by one, a carriage for traversing said master wheel, a rack on said typewriter carriage, a rack on said master-wheel carriage, a pinion interposed between said racks and meshing with them to enable said master wheel to be traversed concomitantly with the traveling movement of said typewriter carriage and in the opposite direction, a second totalizer having a series of computing wheels, a master wheel for driving the computing wheels of said second totalizer, a carriage for said second totalizer, and an intermittent connection made and broken at intervals during the travel of said typewriter carriage to repeatedly traverse said second-mentioned master wheel and carriage with said first-mentioned master wheel carriage and typewriter carriage during a single run of said typewriter carriage.

5. The combination with a long totalizer including a plurality of computing wheels arranged to be computed in groups for several distinct computing zones or major columns, of a master wheel for driving said computing wheels one by one, a carriage for traversing said master wheel, a short totalizer having a plurality of computing wheels equal in number to at least the number of computing wheels in a group of said long totalizer, a master wheel for driving the computing wheels of said short totalizer one by one, a carriage for traversing said second-mentioned master wheel, an automatic connection between said first and second-mentioned master-wheel carriages acting to pick up said second-mentioned carriage and traverse it along with said first-mentioned carriage for a short period and then drop it at predetermined intervals during the continued run of said first-mentioned master-wheel carriage, and a spring-motor tensioned during each advancing movement of the short totalizer master-wheel carriage acting to return said second-mentioned master-wheel carriage each time it is released, so as to cause computations in the computing wheels of said short totalizer in synchronism with successive groups of the computing wheels of said long totalizer.

1,349,247. COMBINED TYPEWRITING AND COMPUTING MACHINE. WALTER WRIGHT, New York, N. Y., assignor, by mesne assignments, to Underwood Computing Machine Company, a Corporation of New York. Original application filed Apr. 20, 1908, Serial No. 428,020. Divided and this application filed Aug. 4, 1917. Serial No. 184,404. 10 Claims. (Cl. 235—59.)



8. The combination with a typewriter carriage and a totalizer fast thereto and having wheels, of a master wheel therefor, a second totalizer having broader wheels, a master wheel therefor, a computing carriage for causing relative movement between the broader wheels and their master wheel, means for moving said computing carriage by said typewriter carriage, and means for simultaneously turning said master wheels.

1,349,248. CIGAR-PIERCER. PIOTR ZERA, Schenectady, N. Y. Filed Mar. 21, 1919. Serial No. 284,044. 2 Claims. (Cl. 131—20.)

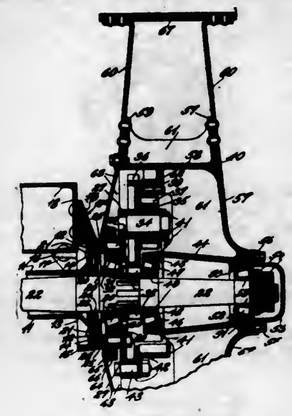


1. A smoker's implement comprising a tubular handle, a rod slidably engaged therein, a needle extending from said rod, means for projecting or retracting said needle within said handle, a detent operated by said retraction means, said detent being engageable with a slot formed in said handle, a knife blade pivoted at the end of said tubular handle opposite to said needle, and means formed with said rod adapted to hold said knife blade when in a closed position.

1,349,249. TRACTOR. HERBERT W. ALDEN, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed Oct. 10, 1919. Serial No. 329,819. 15 Claims. (Cl. 180—75.)

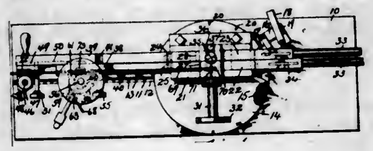
13. In an automobile of the kind described, a hollow axle housing adapted to support the body, traction wheels, and driving axle sections in said housing and operatively

connected to said wheels, said hollow axle housing having a bracket member rigidly secured to the ends thereof and



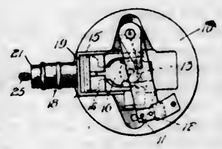
constituting an angular seat above the axle housing and channel-shaped body frame members seated on and rigidly secured to said bracket seats.

1,349,250. MACHINE FOR CARVING, ROUTING, AND SIMILAR OPERATIONS. HONESTUS M. ALBEE, Nutley, N. J. Filed Apr. 16, 1919. Serial No. 290,410. 20 Claims. (Cl. 90—13.1.)



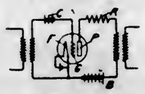
1. A machine of the kind described comprising a rotatable head, arms freely slidable on the head, means connecting the arms to control their movement relative to each other, and means on the arms for holding tools.

1,349,251. ACTUATING MEMBER FOR SWITCHES. ERNST G. K. ANDERSON, Chicago, Ill., assignor to Anderson Electric Specialty Company, Chicago, Ill., a Corporation of Illinois. Filed May 29, 1918. Serial No. 237,200. 7 Claims. (Cl. 74—5.)



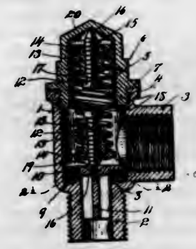
1. An actuating member for an electrical switch and the like comprising a permanent tubular swingable and axially displaceable member, and a terminal extension member telescopic thereon, with means to lock the extension member on the permanent member when extended at definite distance from the permanent member.

1,349,252. METHOD OF AND MEANS FOR UTILIZING THERMIONIC CURRENTS. HAROLD D. ARNOLD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 20, 1916, Serial No. 85,362. Renewed May 16, 1918. Serial No. 235,043. 19 Claims. (Cl. 179—171.)



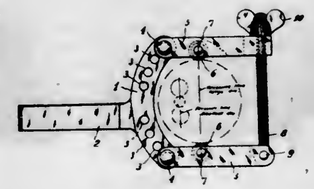
1. A thermionic amplifier having an input circuit and an output circuit, a source of electromotive force in each of said circuits, and a resistance in said output circuit, the magnitude of said electromotive forces and of said resistance being so related that the output current shall vary approximately linearly as the input voltage over a portion of the characteristic curve suitable for efficient operation of said amplifier.

1,349,253. VALVE. JOHN ASTROM, Fort Wayne, Ind., assignor to Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Filed May 12, 1919. Serial No. 296,459. 4 Claims. (Cl. 137—53.)



1. A device of the class described comprising a valve casing, a valve seatable therein, an expansile spring for urging the valve to a seating position, and a stem adjustably carried by each end of the spring and projecting therebeyond, said stems being relatively alined, the projecting end of one stem being engaged with the valve centrally thereof and the corresponding end of the other stem engaged with the valve casing.

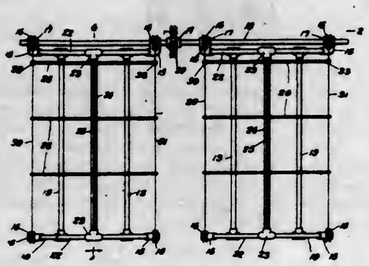
1,349,254. NURLING-TOOL. WALTER S. AUSTIN, Pittsburgh, Pa. Filed Aug. 26, 1919. Serial No. 319,868. 4 Claims. (Cl. 80—5.1.)



4. In a tool of the character stated, an arcuate head, nurl holding members pivoted to said head at their inner ends and spaced longitudinally of the head, one of said members having its outer end portion slotted, an eye bolt pivoted to the outer end of the other member and movable into the slot of the first mentioned member, a wing nut

secured on said bolt for forcing the nurl-holding members toward each other, and opposed nurls carried by said members and disposed substantially 180° apart.

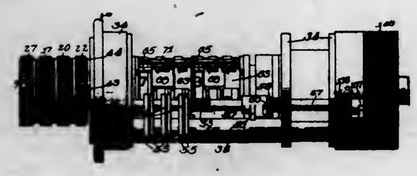
1,349,255. DISPLAY-RACK CANOPY. CHARLES BART, New York, N. Y. Filed Feb. 18, 1920. Serial No. 359,717. 5 Claims. (Cl. 211—14.)



1. An apparatus of the class described comprising a framework consisting of a plurality of standards connected by transverse and longitudinal members, the transverse members extending at the opposite sides of the framework and beyond said longitudinal members, means on the extensions of said transverse members for supporting other members which extend longitudinally of the framework, upwardly directed V-shaped extensions connected with said last named means, a longitudinal tubular member connected with the top portions of said extensions, said tubular member being provided with a longitudinal aperture, and a plurality of V-shaped frame members mounted to move longitudinally of the framework and said tubular member and provided with devices which operate in said member and the aperture thereof.

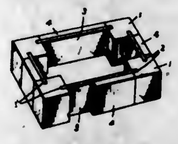
5. An apparatus of the class described comprising a framework consisting of end frame members connected by longitudinal frame members, pulley devices mounted at the opposite sides of said end frame members, endless members extending longitudinally of the frame work and connected with said pulley devices, supplemental frame members mounted to move longitudinally of the framework and in operative connection with said endless members, and a flexible inclosure secured to and adapted to be operated by said supplemental frame members.

1,349,256. METER FOR CONTINUOUS PUMPS. REUBEN E. BECHTOLD, Fort Wayne, Ind., assignor to S. F. Bowser & Co., Incorporated, Fort Wayne, Ind. Filed Dec. 1, 1916. Serial No. 134,271. 91 Claims. (Cl. 235—132.)



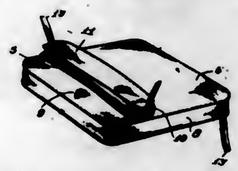
1. The combination of a registering meter, a control device for said meter, a pump, means for operating said pump and meter, a lost motion connection between the operating means and the pump to permit slight movement of said operating means without actuating said pump and mechanism for setting said control device during the said slight movement of said operating means.

1,349,257. PRINTER'S FURNITURE. CHARLES E. BENHAM, Schenectady, N. Y., assignor to The Maqua Company, a Corporation of New York. Filed May 29, 1920. Serial No. 385,324. 4 Claims. (Cl. 101—402.)



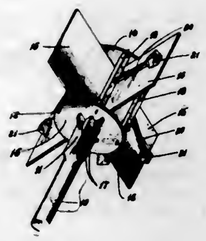
1. A lock quad for use in building printers' furniture comprising a block having standard printers' dimensions provided with slots of standard printers' dimensions adapted to receive standard printers' slugs.

1,349,258. CUSHION-COVER. BERGET H. BLOCKSOM, Chicago, Ill., assignor to Wilson & Co., Inc., Chicago, Ill., a Corporation of New York. Filed May 21, 1917. Serial No. 169,810. 1 Claim. (Cl. 5—13.)



A cover for cushion pads comprising a bottom piece, a box edge stitched thereto about the entire edge thereof, an auxiliary top piece having one end and its side edges stitched to said box edge, a main top piece disposed opposite to said auxiliary piece and having one end and portions of both side edges stitched to said box edge, and a cap formed on the free end edge of said main top piece to fit over and about the end of the cover adjacent to said auxiliary piece.

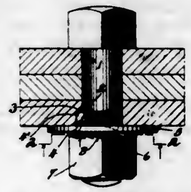
1,349,259. NOISY TOY. JOHN BORYK, Ansonia, Conn. Filed July 24, 1919. Serial No. 312,916. 4 Claims. (Cl. 46—46.)



1. In a toy of the class described, the combination with a handle adapted to be manually operated and a rectangular body extending therefrom, said body having cross recesses therethrough, of plates secured in the recesses extending at right angles, means for clamping said plates in fixed relation, and hammer heads pivotally engaged with said plate clamping means adapted to make contact upon opposite sides of adjacent plates.

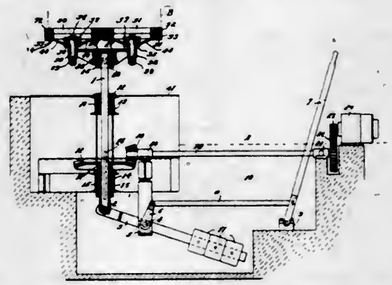
1,349,260. NUT-LOCK. JACOB A. BRADLEY, Milwaukee, Wis., assignor of one-half to Albert O. Anderson, Shawano, Wis. Filed Jan. 19, 1920. Serial No. 352,273. 1 Claim. (Cl. 151—13.)

In a pair of elements adapted to be bolted together comprising a facing element having a bolt recess therein and a locking washer recess; the combination of a bolt extending through the element having a longitudinal groove adapted to be alined with the washer recess of the facing plate, a washer fitted to the bolt provided with a tongue extending from its upper face, a lug extending from the lower face for engagement with the



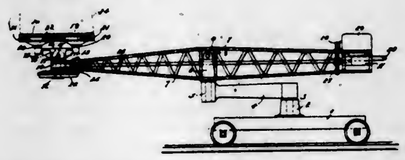
washer recess of the parts to be confined, the lug being provided with an inturned end engageable with the bolt groove, and a nut provided with a saw-tooth lower face for locking engagement with the washer tooth whereby the bolt, washer and nut are locked against turning relative to the face plate.

1,349,261. CLEANING-BRUSH. CLARENCE M. BROWN, Philadelphia, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Jan. 11, 1917. Serial No. 141,743. 1 Claim. (Cl. 15—37.)



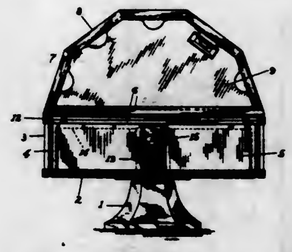
A cleaning brush for glass melting pots, comprising in combination, a vertical rotary shaft, an upwardly directed brush carried at the upper end of the shaft, adapted to engage the bottom of a pot, a counterbalance for the shaft tending to hold the shaft in its uppermost position, and means for moving the shaft vertically.

1,349,262. BRUSH FOR CLEANING GLASS-MAKING POTS. CLARENCE M. BROWN, Philadelphia, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Jan. 11, 1917, Serial No. 141,742. Renewed Mar. 18, 1920. Serial No. 366,965. 3 Claims. (Cl. 15—37.)



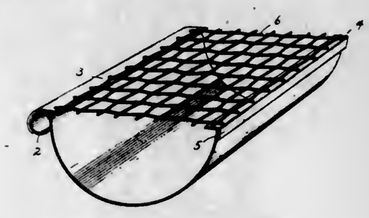
3. A brush for cleaning glass making pots, comprising in combination, a beam mounted for universal movement, an upwardly directed brush mounted pivotally upon the beam and adapted to be moved into contact with the bottom of a pot, and means carried by the beam for operating the brush.

1,349,263. GUM AND MINT CASE. LLOYD W. BUCHENAU, Stockton, Calif. Filed June 28, 1918. Serial No. 242,382. 1 Claim. (Cl. 211—20.)



In a show case having a base, and side walls thereon, a transverse division wall, a pair of lids disposed back to back along the center line of the division wall, hinges connecting the lids and a common U-shaped hinge pin mounted to each hiuge centrally thereof and being driven into the division wall and passing between the abutting edges of the lids.

1,349,264. EAVES-TROUGH OR GUTTER COVER. FRED W. BUSSE, Louisville, Ill. Filed Dec. 6, 1919. Serial No. 343,052. 3 Claims. (Cl. 108—28.)



2. An eaves trough screen including a foraminous member and side strips attached thereto, one of said side strips being curved to interlock with the roll edge of the eaves trough, the other of said side strips being flanged to engage the opposite wall of the eaves trough.

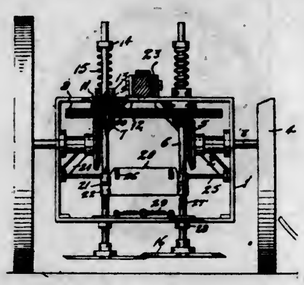
1,349,265. ALKALI-PROOF DYE AND METHOD OF PRODUCING THE SAME. LELAND C. CATES, Chicago, Ill., assignor to Sunbeam Chemical Company, Chicago, Ill., a Corporation of Illinois. Filed July 27, 1918. Serial No. 246,988. 6 Claims. (Cl. 8—6.)

3. The method of producing alkali proof dyes, which consists in dissolving a non-alkali proof dye in a substantially one-quarter normal solution of sodium hydroxid, bringing the solution to substantially the boiling point, then adding an excess of a saponifiable oil, permitting the subsequent reaction to continue until the alkali is substantially exhausted, then adding alkali in the proper quantity to saponify the excess oil, then permitting the substance to harden, then powdering the same, substantially as described.

1,349,266. COTTON-CHOPPER. ROBERT H. COGBURN, McKinney, Tex. Filed Feb. 28, 1919. Serial No. 279,808. 4 Claims. (Cl. 97—47.)

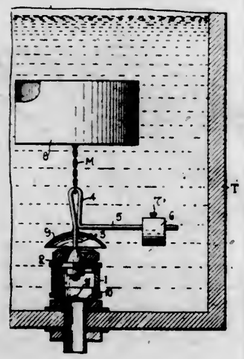
1. In a cotton chopper, a frame, axles supporting the frame, ground wheels mounted on the axles, vertical shafts slidable in the frame, coiled springs supporting the shafts, means for depressing the shafts against the tension of the springs, and means for imparting rotation to the shafts.

3. In a cotton chopper, a frame, axles supporting the frame, ground wheels mounted on the axles, vertical shafts slidable in the frame, means for imparting rotation to the shafts, coiled springs supporting the shafts,



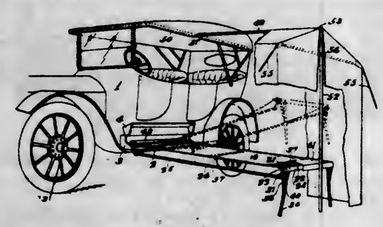
means for depressing the shafts against the tension of the springs, cutting disks on the lower ends of the shafts, and a second coiled spring connecting the shaft, the shafts being jointed above the points of connection with the second coiled spring.

1,349,267. FLOAT-VALVE. CLYDE L. CRAIG, Washington Court House, Ohio. Filed Jan. 18, 1917. Serial No. 143,071. 6 Claims. (Cl. 137—104.)



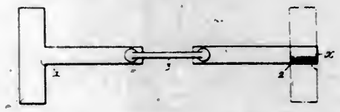
1. In combination with a valve member and its seat, a buoyant body operatively engaged with the valve member, and means for retarding the seating of the valve member under the influence of the buoyant body to submerge the buoyant body before the valve member is in close contact with its seat.

1,349,268. AUTO SPRING-BED. WILBUR E. CUMMINGS, Hollywood, Calif. Filed May 3, 1916. Serial No. 95,261. 5 Claims. (Cl. 5—72.)



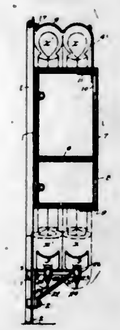
1. The combination with a stable vehicular support; of a bed bottom comprising a sheet resiliently and detachably connected directly at one end to said support at one level; a crossbar resiliently and detachably connected directly to the other end of the bed bottom; stretching means pivotally and detachably engaging the support at a lower level than the bed bottom and provided with arms extending up and connected to the crossbar; and means to support said crossbar; whereby the crossbar is elevated above the level of the stable vehicular support.

1,349,269. RENEWABLE FUSE. GUY D. FERNANDEZ, Haddon Heights, N. J. Filed Oct. 16, 1919. Serial No. 331,028. 7 Claims. (Cl. 200—135.)



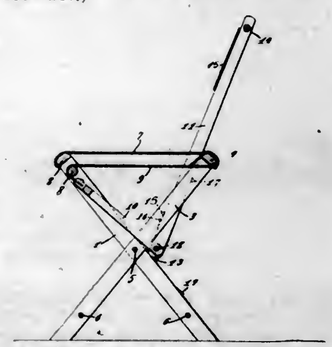
1. A fuse element comprising two sheet metal terminal members each having a central stem and a flexible laterally extending head; with a relatively fusible link having its ends in permanent electrical connection with the stems of said terminal members.

1,349,270. TIRE-HOLDER. ALFRED J. FERRIS, Philadelphia, Pa. Filed Feb. 24, 1916. Serial No. 80,223. 2 Claims. (Cl. 224—29.)



1. The combination of a supporting structure; a tool box thereon; a cradle placed to engage a portion of a tire shoe extending around the tool box; a hasp hinged to said structure and made in a plurality of parts hinged together to rigidly grip the tire shoe in the cradle; with common locking means holding the box closed and the hasp in position.

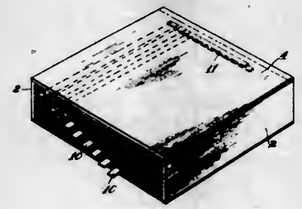
1,349,271. FOLDING CHAIR. ELMER E. FISHER, Kokomo, Ind. Filed Oct. 22, 1919. Serial No. 332,428. 8 Claims. (Cl. 155—147.)



2. A folding chair including crossed pairs of legs pivotally connected, front and back seat strips connecting

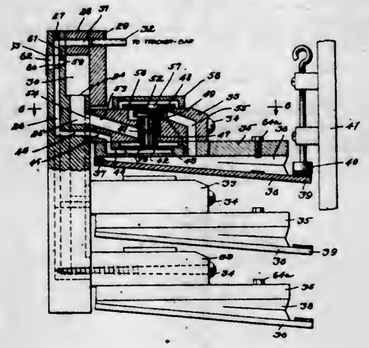
the upper ends of the legs of the respective pairs and extending laterally therebeyond, a flexible seat connecting said strips, connected back strips at opposite sides of the seat and movable between the projecting ends of the seat strips, a guide connecting the legs of one pair close to the front of the seat, a connection between the back seat strip and the lower ends of the back strips and extending over the guide, said back strips normally bearing on the legs of one pair, and means for limiting the upward movement of the back strips relative to the seat.

1,349,272. DISK-RECORD HOLDER. GUSTAV E. FOSS, Chicago, and HARRY GAROLD JENSEN, Berwyn, Ill. Filed Sept. 18, 1919. Serial No. 324,444. 10 Claims. (Cl. 129—15.)



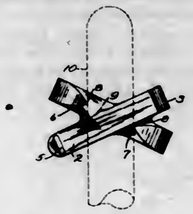
1. A disk record holder comprising a plurality of shelves spaced apart, each shelf having a groove extending from rear to front, a flexible drawing strip disposed in each groove, and a transversely disposed cleat or arm secured to said drawing strip.

1,349,273. PIANO-PLAYER ACTION. AXEL G. GULBRANSEN, Chicago, Ill., assignor to Gulbransen-Dickinson Company, Chicago, Ill., a Corporation of Illinois. Filed June 3, 1915. Serial No. 31,815. 8 Claims. (Cl. 84—53.)



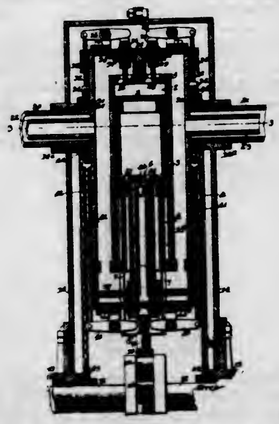
1. In combination, a channel board having a plurality of independent channels therein, a longitudinal channel and a plurality of channels extending from and disposed below said longitudinal channel, a plurality of actuating pneumatics each having a passageway connecting with one of said third named channels, a valve in each said passageway, a diaphragm for operating each said valve, and a diaphragm chamber adjacent each said diaphragm, each diaphragm chamber being connected with one of said first named independent channels.

1,349,274. BROOM-HOLDER. CHARLES GUSTAFSON, Instanter, Pa. Filed May 28, 1920. Serial No. 384,996. 4 Claims. (Cl. 24—257.)



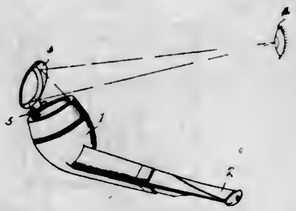
1. In a broom holder, strips spaced apart, arms integral with one of said strips and curved in the direction of the second strip, said arms having pointed ends, and a tooth formed upon one of said strips.

1,349,275. INTERNAL-COMBUSTION ENGINE. ARCHER P. HARDWICK, Vanadium, Colo. Filed Jan. 3, 1918. Serial No. 210,208. 12 Claims. (Cl. 123—42.)



1. An internal combustion engine, comprising outer and inner spaced cylinders with openings at the bottom, intake and exhaust valves in the head of each cylinder, the valves in the inner cylinder controlling the gas flow from the bottom of the inner cylinder; and a piston operating between the cylinder heads, arranged to receive a power stroke at each side of the head, and including portions projecting out of the bottom openings of the outer cylinder.

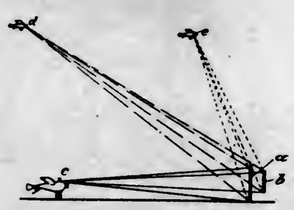
1,349,276. TOBACCO-PIPE. HARRY J. HAYS, Alexandria, Va. Filed Sept. 27, 1919. Serial No. 326,783. 2 Claims. (Cl. 131—12.)



1. In combination with a tobacco pipe, a cover having a reflecting surface on one face thereof; the cover being

adjustably attached to the pipe in such a manner as to enable operator to arrange the reflecting surface so that the light from the burning tobacco will be reflected to the eye of the smoker, substantially as described.

1,349,277. OPTICAL SIGN. EDGAR HÖNIG, Wilmersdorf-Berlin, Germany, assignor to the Firm Optische Signale Gesellschaft mit beschränkter Haftung, Berlin, Germany. Filed Oct. 17, 1914. Serial No. 867,244. 1 Claim. (Cl. 33—1.)



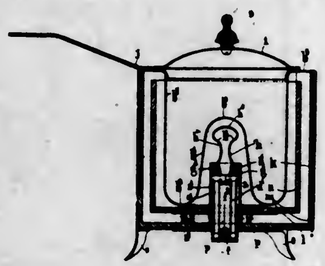
An optical sign comprising a set of stationary signs, each sign representing an open-worked regular geometrical figure of a predetermined size, the said signs being erected behind each other in a permanent predetermined position with relation to each other.

1,349,278. MECHANISM FOR REGULATING THE POINT OF IGNITION IN MAGNETO-ELECTRIC IGNITION APPARATUS. ERNST HURLIMANN, Zuchwil, near Solothurn, Switzerland, assignor to the Firm Scintilla, Solothurn, Switzerland. Filed Mar. 23, 1918. Serial No. 224,386. 2 Claims. (Cl. 123—149.)



2. In a mechanism for regulating the point of ignition in magneto electric apparatus the combination of parts for effecting the feature as claimed comprising a hand operated interrupter member with a projection formed thereon and a yoke piece for carrying a coil attached thereto, a concentric segmental ring provided with a recess which forms a stop for said projection and a spring in said recess adapted to allow a differential movement between the adjacent parts, substantially as shown and described.

1,349,279. HEATING APPARATUS. ALEXANDER CONSTANTINE IONIDES, Jr., London, England. Filed Mar. 31, 1919. Serial No. 286,451. 7 Claims. (Cl. 158—99.)



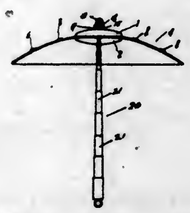
2. In combination in a device for generating heat by substantially complete gaseous combustion, a mixing cavity from which the surrounding air is excluded, separate conduits delivering supplies of two gaseous fluids such as gas and air thereto, an outlet passage from said cavity formed of refractory material, a gradually flared mouthpiece terminating said passage and forming a combustion chamber, a doomed cover to said chamber with apertures to permit the escape of heating medium and a heat transferring partition in close proximity to said mouthpiece.

1,349,280. SEALED LOCK FOR CAR-DOORS. MASSEY P. JENKINS, Newport News, Va. Filed Sept. 6, 1919. Serial No. 322,010. 5 Claims. (Cl. 292—284.)



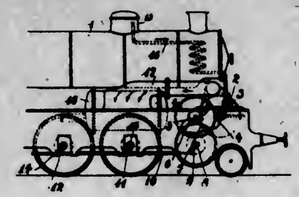
2. A sealed lock comprising a casing, a rectilinearly movable bolt having a longitudinal slot in its side and also having a head on which is an apertured extension, a movable guard member disposed in the casing alongside the bolt and having a tongue arranged in the slot of the bolt, a spring interposed between said guard member and an opposed abutment in the casing, a sealing strip looped through the aperture in the bolt head and having apertures adjacent to its ends, and a lever fulcrumed at an intermediate point of its length on the casing and having on one arm a stud to enter the apertures in the sealing strip and also having on its other arm a projection movable inwardly through an aperture in a wall of the casing when the guard member is clear of said aperture; the joint between the casing and the bolt head being broken, and the spring being socketed in the guard member, and the casing being provided with a socket to receive the lever stud.

1,349,281. UMBRELLA. PERCIVAL FAULKNER KING, Vancouver, British Columbia, Canada. Filed Apr. 28, 1919. Serial No. 293,146. 11 Claims. (Cl. 135—25.)



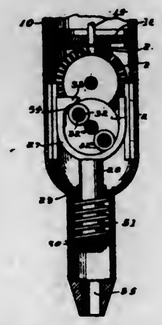
1. In an umbrella, a pole, a cover, and a frame for the cover connected to the pole including a plurality of sectional ribs lying adjacent to one another when closed and foldable to form a substantially box-shaped structure in which the cover is contained, said ribs being adapted when unfolded to be spread in a circumferential direction to equidistant stations.

1,349,282. STEAM-TURBINE-DRIVEN VEHICLE. CONRAD KOMLER, Zurich, Switzerland. Filed Dec. 22, 1919. Serial No. 346,695. 4 Claims. (Cl. 105—38.)



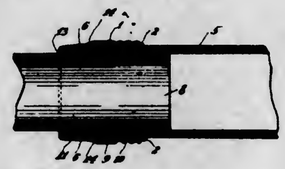
4. A steam turbine driven vehicle comprising a boiler, a turbine supplied from said boiler and a surface condenser into which said turbine discharges, a blind shaft, transmission spur gearing between said turbine and blind shaft and a crank mechanism operated by said blind shaft for actuating the several driving wheels of the vehicle,

1,349,283. MECHANICAL MOVEMENT. SAMUEL W. M. KOLLOCK, Seattle, Wash., assignor, by direct and mesne assignments, of one-fourth to George L. Kollock, one-fourth to Robert P. Martin, and one-fourth to Wilfred Baran, Seattle, Wash. Filed July 12, 1918. Serial No. 244,658. 1 Claim. (Cl. 74—14.)



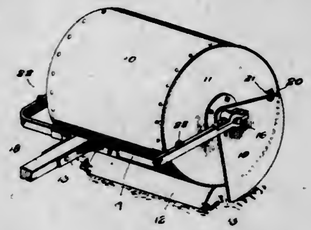
A device of the class described including a reciprocatory spring impelled plunger, a yoke carried by one end thereof and provided with a contact, a rotary tappet carrying member, tappets arranged on said member for successive engagement with the contact of the yoke, a cushion spring associated with the contact of the yoke to relieve the jar incident to the successive engagement of the tappets with said contact, fixed guides, and the arms of said yoke being channeled to receive said guides.

1,349,284. HOSE-COUPLING. JOSEPH P. LAVIGNE, Detroit, Mich., assignor to Detroit Mechanical Engineering Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 13, 1919. Serial No. 282,347. 4 Claims. (Cl. 285—86.)



1. The combination with a flexible conduit adapted to have a rigid conduit extend therein, of a sheet metal member fixed on the end of said flexible conduit, and provided with a contractible nose portion, and a sheet metal detachable member adapted to be mounted on said fixed member and having a flared portion adapted to contact with and contract the nose portion of said fixed member.

1,349,285. CONCRETE MIXER AND CONVEYER. JOHN J. LYNCH, Wason Flats, Mont. Filed May 10, 1919. Serial No. 296,113. 8 Claims. (Cl. 298—5.)



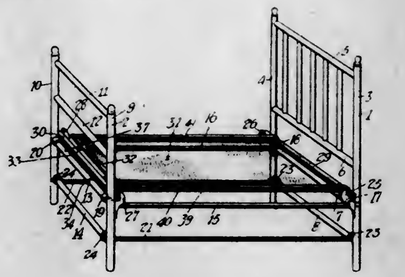
7. A device of the character described including a mixing drum, trunnions carried by the ends of the drum, means for pulling the drum from place to place including a yoke engaged with said trunnions, lifting members swingingly mounted upon said trunnions and retained thereon by the yoke, and means for connecting said members to the drum for elevating the drum by the rolling action thereof.

1,349,286. PHONOGRAPH-HORN. FRED C. LYON, Fayette, Ohio. Filed Feb. 2, 1920. Serial No. 355,563. 4 Claims. (Cl. 181—27.)



4. In a phonograph horn, a vertical tubular neck, a horn having connection with the neck, an open ended hollow control member in the neck extending across the connection between the born and neck, and means to operate the control member.

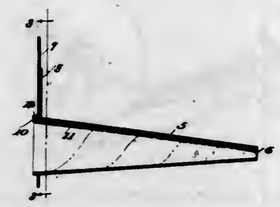
1,349,287. BEDSTEAD. JAMES MCALLAN, Toronto, Ontario, Canada. Filed Dec. 9, 1919. Serial No. 343,526. 1 Claim. (Cl. 5—39.)



The combination with a bedstead, of a cross bar removably carried by the head section of the bedstead, a second cross bar removably carried by the foot section of the bedstead, a fabric mattress attached at one end to

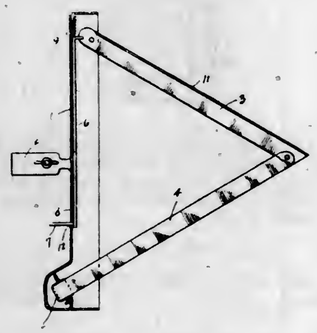
said first-mentioned cross bar, a cross bar carried by the free end of said fabric mattress and adjustably secured to said second mentioned cross bar, and pairs of reinforcing bars extending longitudinally along the top and bottom of the mattress at the side edges thereof, the pairs of bars extending along each side edge of the mattress being disposed on opposite sides of the transverse center of the mattress, so as not to interfere with the stretching thereof.

1,349,288. MEGAPHONE. GEORGE C. MASON, Springfield, Mass., assignor to Frank D. Spotswood, Lexington, Ky. Filed Dec. 9, 1919. Serial No. 343,449. 6 Claims. (Cl. 46—37.)



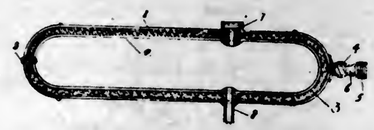
1. A toy including a tubular body portion, a display device mounted on one end thereof and having an opening therein for the reception of said body portion, and means for preventing movement of the display device longitudinally of the body portion.

1,349,289. AUTOMOBILE-SIGNAL. CHARLES MILLAR, Vancouver, British Columbia, Canada. Filed Sept. 26, 1919. Serial No. 326,601. 2 Claims. (Cl. 116—41.)



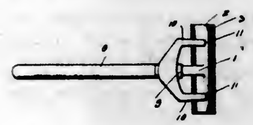
1. An automobile signal comprising a substantially rectangular casing open on one side and having a slot in the opposite side, said casing being provided with a clamp whereby it may be detachably connected vertically to the side of the automobile windshield, a signaling arm pivotally connected between the walls of said casing adjacent its upper end and arranged to hang normally vertical, said arm being formed out of a thin metal strip turned over on its edge to form a flange adapted to close the open side of the casing, a spring-roller rotatably mounted adjacent the lower end of the casing, a tape member wound on said roller having its free end secured to the free end of said arm and adapted to be unwound by the raising of the same, whereby the arm and the tape when extended form the sides and the casing the base of a triangle, the apex of which points outwardly, and a rod secured at its upper end to the said arm having its lower end bent and extended through the casing slot for the operation of the arm.

1,349,290. WAR-AEROPLANE FUEL-TANK. GEORGE J. MURDOCK, Newark, N. J. Filed Feb. 7, 1917. Serial No. 147,170. 13 Claims. (Cl. 220—88.)



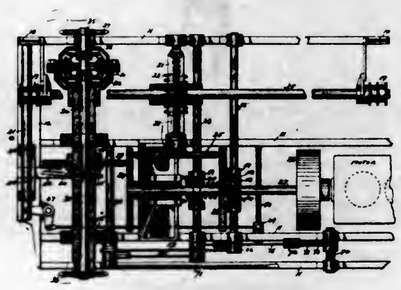
1. A fuel tank of the character described having spaced imperforate walls, and a filler for said space of elastic material compressed between said walls whereby to cause said material to close a puncture caused by the passage of a projectile through the tank.

1,349,291. SAFETY-RAZOR. EDWARD P. NORTON, Oakland, Calif. Filed Jan. 13, 1920. Serial No. 351,230. 3 Claims. (Cl. 30—12.)



1. In combination, inner and outer plates for receiving a blade, said inner plate having openings and a shank, a sleeve slidable on said shank, means carried by said sleeve and adapted to pass through the openings for binding the blade against the outer plate, and means adjustably connected to the shank for forcing the sleeve in the direction of the plates.

1,349,292. LUMBER-TRUCK. WILLIAM S. OVERLIN, Portland, Oreg. Filed Nov. 24, 1919. Serial No. 340,176. 7 Claims. (Cl. 254—166.)



1. Driving and hoisting mechanism for motor trucks, comprising the combination with the motor and the load-engaging shoes, of a transmission shaft operatively connected to the truck wheels, a friction wheel adjustable thereon, a hoisting drum shaft, a friction wheel fast thereon, a motor shaft operatively connected to the motor, two axially movable friction disks thereon, one of said disks being adapted to engage the friction wheel on the drum shaft to rotate the latter in one direction, and the other disk being adapted to either engage the same friction wheel to rotate the drum shaft in the other direction, or to engage the friction wheel on the transmission shaft to drive the wheels, and independent, manually operable means to move said disks into and out of engagement with said wheels.

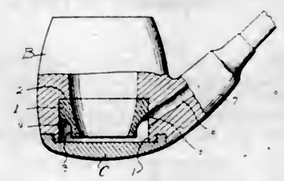
2. Driving and hoisting mechanism for motor trucks, comprising the combination with the motor shaft, the differential driving shaft and the hoisting shaft, of friction wheels on the driving and hoisting shafts, a pair of friction disks on the motor shaft, means to engage one of said disks with the friction wheel on the hoisting shaft or with the wheel on the driving shaft, and means to engage the other disk with the wheel on the hoisting shaft.

3. Driving and hoisting mechanism for motor trucks, comprising the combination with the wheel driving shaft mounted transversely of the frame and the motor shaft mounted longitudinally of the frame, of a drum shaft mounted parallel to the motor shaft and a hoisting shaft mounted parallel to the driving shaft, worm gearing to connect said drum and hoisting shafts, a friction wheel fast on the end of the hoisting shaft, a friction wheel slidable on the driving shaft, a friction disk fast on the end of the motor shaft, means to move the motor shaft to bring said disk into engagement with either the friction wheel on the driving shaft or the friction wheel on the hoisting shaft, a friction disk slidable on the motor shaft and means to move it into engagement with the friction wheel on the hoisting shaft.

4. In a motor truck of the class described, the combination of parallel motor and hoisting drum shafts, a wheel driving shaft and a hoisting transmission shaft at right angles to said motor and drum shafts, worm gearing connecting said drum and transmission shafts, friction gearing to connect said motor shaft to said driving shaft and to said transmission shaft, and independent means to control said friction gearing according as to whether the load is to be raised or lowered or the truck is to be driven.

5. In a motor truck of the class described, the combination of a motor shaft, a driving shaft, and a hoisting shaft, a friction wheel on the driving shaft, a friction disk on the motor shaft, and a friction wheel on the hoisting shaft, means to bring said disk into engagement with either of said wheels, means to lock it in engagement with the wheel on the driving shaft, a second friction disk on the motor shaft, and means to bring it into engagement with the wheel on the hoisting shaft.

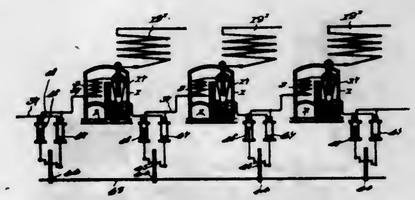
1,349,293. SMOKING-PIPE. RICHARD E. PERKINS, Joplin, Mo., assignor to A. H. Lanyon, Pittsburg, Kans., trustee for The Dealers Manufacturing Company. Filed July 23, 1919. Serial No. 312,761. 2 Claims. (Cl. 131—12.)



1. A pipe of the class described comprising a bowl, a removable cap closing the bottom of the bowl, the side wall of the bowl having its lower portion reduced in thickness from within, and a collar of infusible material snugly fitting within the lower portion of the bowl and spaced from the applied cap, the lower marginal portion of the collar being provided with a peripheral rabbet, and a stem for the bowl having a draft opening in communication with the rabbet of the applied collar.

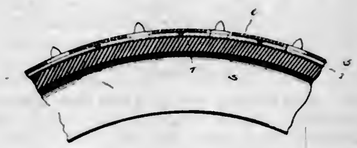
1,349,294. PROCESS AND APPARATUS FOR CONTINUOUSLY CRACKING OILS. WALTER B. PRICE, Los Angeles, Calif., and ERNEST DIETZ, New Orleans, La. Filed July 6, 1916. Serial No. 107,845. 6 Claims. (Cl. 196—25.)

1. The process of converting heavy hydrocarbon oils into oils of lower boiling point, which consists in subjecting a stream of such heavier oils to a succession of conditions in that successive portions of the same material are subjected simultaneously to progressively higher temperatures and pressures in a step by step way, to produce



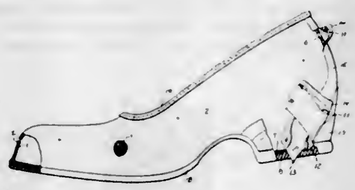
a uniform product, and removing the lighter hydrocarbons constantly as they are formed.

1,349,295. ANTISKID FOR TIRES. WILLIAM REINL, Secaucus, N. J. Filed June 6, 1919. Serial No. 302,275. 1 Claim. (Cl. 152—16.)



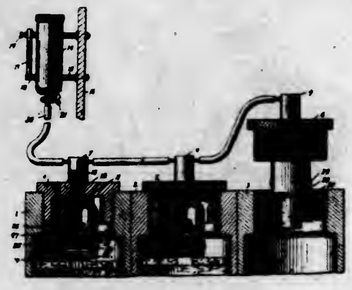
The combination with a tire tread, of a fabric band extending longitudinally of the tire tread midway the sides thereof, metal links cemented longitudinally upon the outer face of the band end to end, the ends of the links being beveled, metal plates secured upon the outer faces of the respective links between the ends thereof, fabric strips cemented longitudinally on the outer faces of the links across the meeting ends thereof from plate to plate, said strips being approximately of the same width as the links and of less thickness than the plates and the tire tread being vulcanized about and over the band, the links and the strips with the faces of the plates flush with the face of the tread, and calks carried by and projecting from the plates and the links.

1,349,296. RUBBER FOOTWEAR AND METHOD OF MANUFACTURING THE SAME. JOSEPH M. RICE, FRANK A. JOSEPH, and ALWYN D. RUPP, New Haven, Conn., assignors to L. Candee & Company, a Corporation of Connecticut. Filed Sept. 27, 1918. Serial No. 255,901. 18 Claims. (Cl. 12—142.)



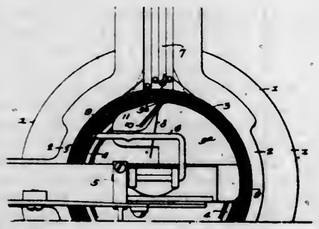
11. The method of manufacturing rubber footwear which consists in applying to a last a composite upper of lining and rubber, butt joining the quarter portions of the upper at the heel end of the last, applying a composite counter to the heel portion, and finishing and vulcanizing the article.

1,349,297. AUTOMATIC WATER-FEED FOR STORAGE BATTERIES. JACK D. SARTAKOFF, New York, N. Y. Filed July 1, 1919. Serial No. 308,057. 6 Claims. (Cl. 204—29.)



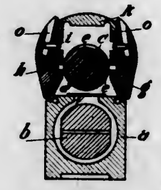
4. A storage battery cell provided with an opening at the top thereof, a closure for said opening, a means for feeding water through said opening, and means, positioned within the cell, for controlling the flow of said water, said controlling means embodying a collapsible float adapted to be collapsed for passage through the opening and thereafter expanded to present maximum floating surface to the liquid in the cell.

1,349,298. YARN-FEED MECHANISM FOR KNITTING-MACHINES. EDWARD SCANLIN and CALVIN REATH, Philadelphia, Pa. Filed Oct. 23, 1919. Serial No. 332,581. 5 Claims. (Cl. 66—12.)



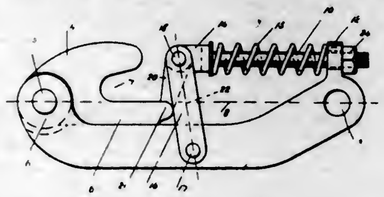
1. In a knitting machine, the combination with a revolving needle cylinder, of mechanism for feeding yarn between the needles, and means independent of said feeding mechanism for further depressing that portion of the yarn which passes between the needles.

1,349,299. HIGH-TENSION DISTRIBUTER FOR MAGNETO-ELECTRIC IGNITION-MACHINES. JACQUES SCHNEIDER, Solothurn, ERNST HÜRLIMANN, Zuchwil, and FREDERIC BILLON, Solothurn, Switzerland, assignors to The Firm Scintilla, Solothurn, Switzerland. Filed Aug. 22, 1919. Serial No. 319,234. 6 Claims. (Cl. 123—149.)



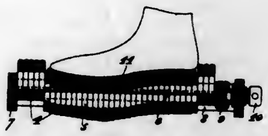
2. In a high tension distributer in magneto-electric ignition machines, in which the distributer rotates vertically above and parallel to the axis of rotation of the rotor of the machine in the same casing of the machine, the combination with the stationary current-collecting brushes, of two removable insulating cheeks in which said brushes are embedded, said insulating cheeks closing both sides of the distributer space, and also containing the insertion apertures and connecting clips or terminals for the sparking plug leads, and an insulating wall separating the distributer space from the rotor of the machine.

1,349,300. COUPLING DEVICE. SIGVART SILNES, Halma, Minn. Filed Jan. 29, 1920. Serial No. 354,760. 2 Claims. (Cl. 213—67.)



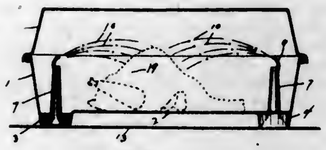
1. An automatically releasable coupling, comprising a frame, a hook pivoted to the front end portion of the frame and provided with a rearwardly projecting stem, a spring-controlled bolt slidable longitudinally in the rear end portion of the frame, a radius device pivoted to the front end portion of the bolt and to the frame, and an arm pivoted to the front end portion of the bolt and articulated with the rear end portion of the said stem.

1,349,301. PAD FOR SOLE-LAYING MACHINES. MARIUS METHILTUS SÖRENSEN, Valleröd, Denmark. Filed Apr. 29, 1919. Serial No. 293,510. 2 Claims. (Cl. 12—38.)



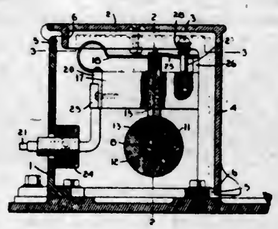
1. A pad for sole laying machines comprising a frame, a series of longitudinal and transverse rows of axially movable members mounted in said frame, and means for locking the members against axial movement in either direction after they have been placed in adjusted positions.

1,349,302. ROASTING-PAN. CHARLES SPITZ, New York, N. Y. Filed June 2, 1919. Serial No. 301,135. 8 Claims. (Cl. 53—6.)



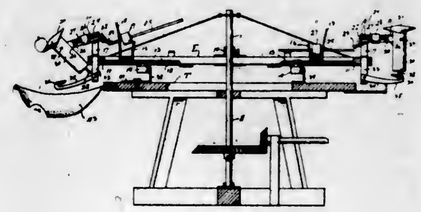
6. A self-basting roasting pan having gravy wells disposed in the corners thereof a funnel shaped basting device provided with a smooth supporting edge for standing in each well and comprising a low flat cone shaped bowl with a short straight stem rising from the apex thereof, a spreader attached to the upper end of the stem and adapted to deflect the liquid ejected from the stem and cause the said liquid to separate into small globules and impinge upon the contents of the pan.

1,349,303. CURRENT-REGULATOR FOR ELECTRIC WELDING-MACHINES. FREDERICK S. STEARNS, Swampscott, Mass., assignor to Francis G. Gale, Waterville, Quebec, Canada. Filed Nov. 4, 1916, Serial No. 129,428. Renewed Nov. 28, 1919. Serial No. 341,267. 2 Claims. (Cl. 219—4.)



1. In a device of the class described, the combination with a casing, of a rotatable shaft journaled therein, a commutator fast on the shaft but insulated therefrom and having at one end a section of insulating material, the rest of the commutator being made of material having good conductivity, two brushes engaging said commutator, one of said brushes having engagement with the section of insulating material, two feed wires, resilient terminals connected to said feed wires and bearing against said brushes, and a spring acting against each terminal and yieldingly holding the corresponding brush against the commutator.

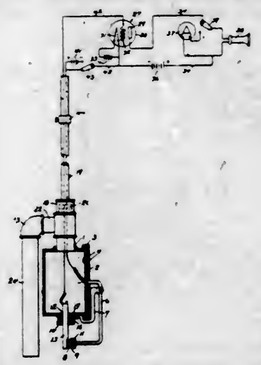
1,349,304. MECHANISM FOR ASSORTING FRUIT BY WEIGHT. BENJAMIN F. TUSSING, Fruitland, Idaho. Filed September 10, 1919. Serial No. 322,847. 17 Claims. (Cl. 130—32.)



1. In a weighing mechanism, a scale pan mounted for vertical movement and for limited tilting movement to discharge its contents and urged to a vertical position when the contents have been discharged, and means preventing tilting movement until the pan has descended a predetermined distance from its normal position.

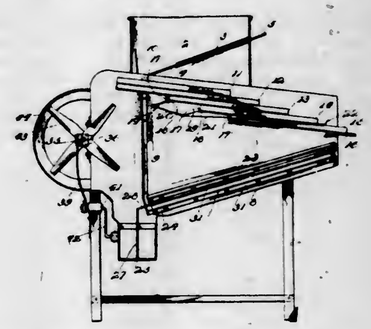
1,349,305. SIGNALING APPARATUS. WILLIAM L. WALKER, New York, N. Y. Filed Apr. 11, 1917. Serial No. 161,179. 9 Claims. (Cl. 177—352.)

1. Signaling apparatus comprising wave responsive means, and a pair of electrodes of dissimilar materials adapted to produce a difference of potential therebetween when immersed in a galvanic fluid, one of the electrodes being connected to the wave responsive means so as to



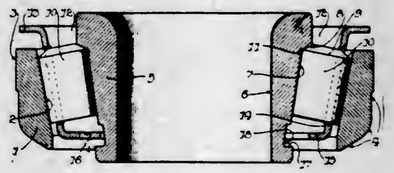
be moved relatively to the other electrode by waves impinging upon the wave responsive means.

1,349,306. SEED-GRADER. EVERETT A. WATKINS, Wichita, Kans. Filed June 12, 1919. Serial No. 303,604. 2 Claims. (Cl. 130—15.)



1. In a machine for the purpose set forth, the combination of a supporting frame, a shoe mounted within the frame for gyratory movement, a plurality of screens secured within the shoe, means for forcing an air blast through the shoe and the screens, dampers at the receiving ends of the screens, and means operable from the discharge ends of the screens to adjust said dampers and control the flow of air to the screens.

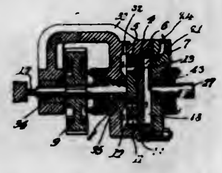
1,349,307. ROLLER-BEARING. CHARLES A. WINN, Chicago, Ill., assignor to Chicago Bearings Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 22, 1917. Serial No. 197,806. 13 Claims. (Cl. 64—62.)



4. In combination, a tapered bearing, tapered rollers for the bearing, an inner peripheral shoulder adjacent

the smaller end of the bearing, and a cage carried on the rollers having a plurality of integral fingers therewith adapted to be formed to engage an inner edge of said shoulder for holding the rollers on the bearing.

1,349,308. ADJUSTABLE DISTRIBUTER FOR INTERNAL-COMBUSTION ENGINES. WILLARD JAY WOODCOCK, Brooklyn, N. Y. Filed Nov. 13, 1917. Serial No. 201,815. 3 Claims. (Cl. 60—16.)



1. In an internal combustion engine, a distributer disk or valve having a port or ports, and in contact with an adjustable disk valve or member having a port or ports with a connecting groove or grooves to provide a free passage to the port or ports in a stationary member with which it is in contact, and which has outlet openings, the said disk-valves or members being incased and provided with an inlet opening and means provided to keep the surfaces in contact.

1,349,309. HATPIN-POINT PROTECTOR. HERBERT WOOLHOUSE, deceased, Norwood, R. I., by Walter Woolhouse, administrator, Norwood, R. I. Filed Nov. 28, 1919. Serial No. 341,288. 2 Claims. (Cl. 24—155.)



1. In a hat pin point protector, a point receiving member including a stem having a bore, said receiving member having a bore enlarged relative to the bore of the stem, split bushing secured in the enlarged bore and having a sleeve extension, the bore of which alines with the first named bore, said sleeve extension having a notch communicating with said bore, a spring actuated clamping member having a stationary jaw carried by the sleeve extension and a movable jaw provided with an inwardly extending bifurcated end to move into the notch, a shell attached to the receiving member and including a plurality of bendable sections and a press button operable through the shell and connected to the movable jaw for disengaging it from the notch.

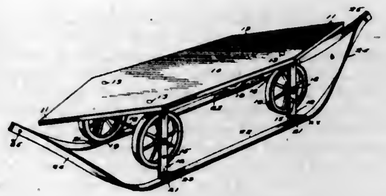
1,349,310. RAIL-TIE. JOHN F. ALTAFFER, Aline, Okla. Filed Apr. 20, 1920. Serial No. 375,235. 1 Claim. (Cl. 238—339.)

A rail tie comprising a hollow body having a top wall provided with a longitudinal slot, a pair of rail engaging members secured to said body adjacent said slot, and a pair of arms having their adjacent ends provided with an interlocking tongue and groove connection, the combined length of said arms being greater than the length of said slot whereby said arms have their inner portions moved downwardly into engagement with the bottom of



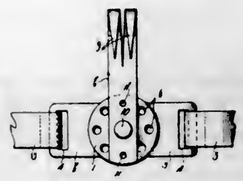
a tie, the outer portions of the same will be securely engaged with the rails, the outer portions of said arms being formed with sockets having their upper and lower sides inclined downwardly so as to firmly engage the bases of the rails and the under side of the top wall of the body.

1,349,311. COMBINED DOUBLE-ENDED SLED AND WAGON. HENRY ASMAN, Evansville, Ind. Filed Mar. 1, 1920. Serial No. 362,332. 3 Claims. (Cl. 280—9.)



2. In a vehicle of the type described, a body portion, brackets secured to said body portion adjacent the ends thereof and provided with depending resilient arms having alined pairs of openings formed therein, axles interchangeably fitting said openings, runners secured to the lower ends of said arms, wheels rotatably mounted upon said axles, the diameter of said wheels being such that the wheels project below the runners for contact with the ground when the axles are arranged in the lowermost pair of openings and are disposed above said runners and free from contact with the ground when the axles are arranged in the uppermost pairs of openings.

1,349,312. LIGHT-HOLDER. ANDREW J. BARRETT, Britannia Beach, British Columbia, Canada, assignor of one-half to Gust Bergquist, Seattle, Wash. Filed May 26, 1917. Serial No. 171,300. Renewed Nov. 3, 1919. Serial No. 335,483. 3 Claims. (Cl. 248—30.)



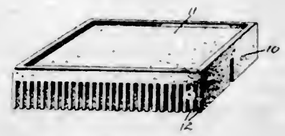
1. A light holder, comprising an elongated member, a strap attached to opposite ends of the member and adapted to engage around the light, a suspending device pivoted centrally to the said member, and coöperating depressions and projections between the said member and suspending device to hold them in a given relative position.

1,349,313. ELEVATOR SAFETY DEVICE. ANDREW J. BARRETT, Britannia Beach, British Columbia, Canada, assignor of one-half to Gust Bergquist, Seattle, Wash. Filed Aug. 23, 1917, Serial No. 187,910. Renewed Nov. 3, 1919. Serial No. 335,484. 1 Claim. (Cl. 187—48.)



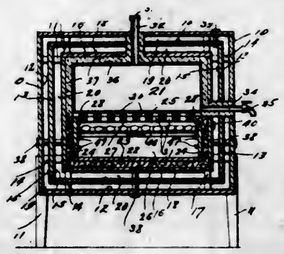
A device of the class described comprising a plate, adapted to be secured to the starting mechanism, said plate having side flanges, a pair of lugs on each flange, leaves hinged to the said plate, springs for normally holding said leaves in raised position and in engagement with the lugs and an electrically operated bolt adapted to engage with said leaves.

1,349,314. DRIP-CATCHER FOR REFRIGERATORS. AUGUST BUESING BATES, Washington, D. C. Filed Mar. 29, 1919. Serial No. 286,032. 5 Claims. (Cl. 299—20.)



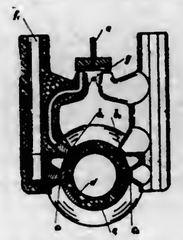
1. A drip catcher for refrigerators and the like, having a shallow body adapted to be positioned beneath a refrigerator, said body being formed of a porous material and provided with a plurality of extending fins whereby to increase its radiation for evaporating purposes.

1,349,315. INCUBATOR. ALFRED E. BERGSTROM, Savage, Mont. Filed June 17, 1918. Serial No. 240,457. 1 Claim. (Cl. 119—38.)



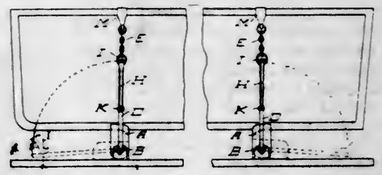
An incubator comprising an outer casing and an inner casing, and having an intermediate casing separated from the inner and outer casings, by air spaces, a perforated partition forming an upper and a lower chamber on the interior of the inner casing, and equipped with a hot water tank filling the said upper chamber, an egg tray, removably mounted and adjustably supported within the lower chamber, a slidable perforated board in contact with the said partition and adapted to be operated from the exterior of the outer casing whereby the said perforations in the partition may be opened and closed to regulate the heat directed into the egg tray, tubes extending into the lower chamber for admitting air thereto, a tube establishing communication between the said chamber and one of the air spaces surrounding the same, and an outlet vent tube leading from said air space through the top of the said casing.

1,349,316. HIGH-VOLTAGE DISTRIBUTER FOR ELECTRIC IGNITION APPARATUS. FREDERIC BILLON, Solothurn, Switzerland. Filed Mar. 14, 1918. Serial No. 222,383. 2 Claims. (Cl. 200—26.)



2. In a high voltage distributer for electric ignition apparatus for internal combustion engines having cylinders arranged in V-fashion the combination of a distributer ring of relatively small diameter, a relatively short conducting segment embedded therein, a brush holder including two sections arranged on opposite sides of the ring and provided with passageways, a pair of current-collecting brushes arranged in the holder sections and bearing on said distributer ring for coacting with the segment, separate current-supplying brushes in the holder sections for each of said current-collecting brushes and bearing on said ring for coacting with the segment and the supplying brushes, the collecting brushes being arranged as near as possible to the corresponding supplying brushes, conducting wires mounted in the passageways in the holder sections and leading to the brushes and a high voltage terminal connected with the current supplying conducting wires.

1,349,317. FASTENING DEVICE FOR LIFEBOATS. CARL VOIGT BODOM, Tampico, Mexico. Filed May 4, 1920. Serial No. 378,747. 1 Claim. (Cl. 9—22.)



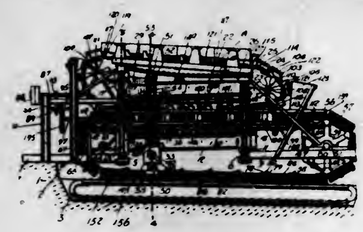
In a fastening device for life boats, stools for gripping the keel of the boat, rotatable cross shafts on which said stools are mounted, radial arms at the inner ends of said shafts, hooks for gripping the gun-wale of the boat, and means comprising a pelican-hook for connecting the aforementioned hooks with the free ends of said arms when the same are in a vertical position.

1,349,318. PRESS. WILLIAM WATSON CAMP, Stratford, Ontario, Canada. Filed Jan. 15, 1920. Serial No. 351,559. 23 Claims. (Cl. 25—99.)

1. A press comprising a bed, a pressure beam swingably supported at one end above the bed, means for feeding a layer of pulverized material between the bed and the pressure beam, and means for transmitting the pressure of the beam on to the layer of pulverized material to compress it into an even compact sheet.

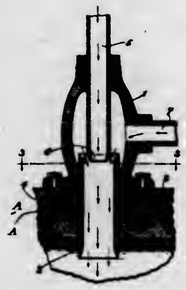
24. In a press, an endless conveyer comprising a series of trough like sections hingedly connected together, a chain of pressure members supported to revolve in unison with the conveyer and in a longitudinally converging direction thereof so as to bear against the upper face of the material to be pressed in each section, means for exerting a series of repeated pressures to gradually force the

pressure members and conveyer sections together as they travel in a converging direction, and wedging means car-



ried by the opposing faces of the pressure sections and conveyer sections and arranged alternately so as to produce a lateral pressure therebetween.

1,349,319. BURNER. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey Rotary Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 26, 1919. Serial No. 292,934. 5 Claims. (Cl. 158—100.)



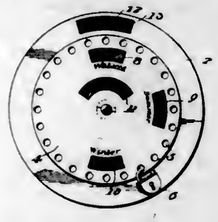
1. The combination with a chamber having an exteriorly recessed opening through the wall thereof, of a tubular burner nozzle extending through the opening and projecting on both sides of the chamber wall, a flange on said nozzle, a clamp device seated in the recess and engaging said flange for supporting said nozzle, a casing connected with the wall of the chamber and inclosing the upper end of said burner nozzle, an air passage entering said casing and overlapping the inclosed end of the burner nozzle, and a fuel supply passage entering said casing and arranged so that the suction of the air escaping from said air passage will withdraw fuel from said fuel passage and force the mixture into said chamber.

1,349,320. THREAD-CUTTER. HELEN SANTORINAOS CARSON, Stamford, Conn. Filed Mar. 21, 1919. Serial No. 284,208. 4 Claims. (Cl. 30—14.)



1. An attachable spring slip thread cutter arranged to be fitted over the edge of a thimble, including lateral thread cutting means forming a part of the clip attachment, and having protected inner cutting edges lying very close to the body of the thimble to offer no obstruction in using the thimble.

1,349,321. INDICATOR. JAMES WILLIAM CARTER, Jr., Abilene, Tex. Filed May 29, 1919. Serial No. 300,523. 1 Claim. (Cl. 40—70.)

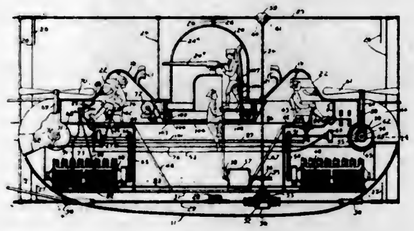


An indicator comprising a pair of disks held together axially and rotatably with respect to each other, each disk having an annular series of openings near its periphery, the openings being adapted to register to receive a lock for locking the disks together, the rearmost disk having near its periphery and inside the annular openings a series of consecutively arranged numerals indicating the days of the month, the foremost disk having a series of display openings for permitting a certain predetermined sequence of numbers to be visible simultaneously, and having other display openings, the rearmost disk having legends to be displayed through said other display openings.

1,349,322. PROCESS OF TREATING OXID ORES OF MANGANESE. GALEN HOWELL CLEVENGER, Colorado Springs, Colo., and MARTINUS HENDRICUS CARON, Weltevreden, Java, Dutch East Indies, assignors to Research Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 23, 1918. Serial No. 255,388. 6 Claims. (Cl. 75—17.)

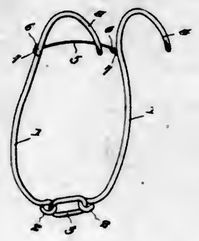
1. Process of treating oxid ores of manganese, comprising effecting reduction thereof to a state lower than the manganic oxid state, and then concentrating the manganese content by magnetic separation.

1,349,323. FLYING-CRUISER. NATHAN G. COX, Livengood, Alaska. Filed Nov. 19, 1918. Serial No. 263,212. 4 Claims. (Cl. 244—25.)



1. A device of the character described, comprising a hull, wings mounted thereupon, casings carried by said hull and each having the proximate form of a cylinder, a rocking cylinder mounted within each casing and adapted to turn to a limited extent relatively therein, a tubular bearing carried by said cylinder and extending radially therefrom, a revoluble shaft extending through said tubular bearing, a propeller mounted upon the outer end of said revoluble shaft and driven thereby, gearing located within said rocking cylinder and connected with said shaft for the purpose of turning the same, and mechanism controllable at will by the operator for actuating said gearing.

1,349,324. ANIMAL-POKE. CHARLES A. CUTLER, Adrian, Mich. Filed May 9, 1919. Serial No. 295,916. 1 Claim. (Cl. 119—138.)



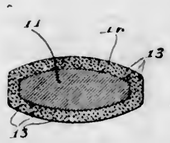
An animal poke comprising rigid side members shaped to conform to the neck of an animal and having their lower portions bent inwardly to extend under the animal's neck and provided with horizontally disposed eyes at their extremities, the upper ends of said side members being formed into forwardly projecting arms, a single rigid substantially oval link loosely connecting said eyes and disposed at substantially right angles thereto, staples on the rear faces of the side members at the bases of the forwardly projecting arms, and a substantially straight connecting member formed of relatively light material having its ends provided with hooks loosely fitting within said staples and terminating thereat, said hooks being constantly out of contact with the animal's neck.

1,349,325. CLOTHESLINE-PROP. CHARLES E. DAVIS, Battle Creek, Mich. Filed Apr. 3, 1920. Serial No. 371,042. 2 Claims. (Cl. 68—12.)



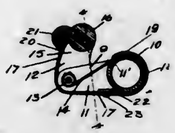
1. In a device of the class set forth, the combination with a pole or prop, of a clothesline-holding device comprising a shank seated in said pole and having oppositely disposed diverging side portions extending upwardly in substantially parallel arrangement, said side portions swerving rearwardly, thence downwardly and forwardly between said side portions, thence upwardly forwardly of said side portions and forming loops, the upper ends of said loops meeting in a curve diverging outwardly from a plane of said side portions at or near the top of said loops and forming a lip or tongue between which and said side portions a clasp is formed to engage a clothesline.

1,349,326. POISON-TABLET. CHARLES T. DAVIS, New York, N. Y. Filed Jan. 20, 1920. Serial No. 352,872. 7 Claims. (Cl. 167—9.)



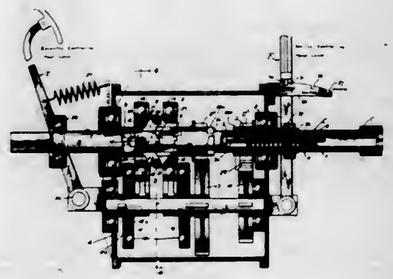
1. A poison tablet carrying a gritty substance adapted to act as a warning of the nature of the tablet.

1,349,327. SPRING DEVICE. DANIEL B. DAVIS, Marion, Ind. Filed Nov. 3, 1919. Serial No. 335,408. 3 Claims. (Cl. 200—19.)



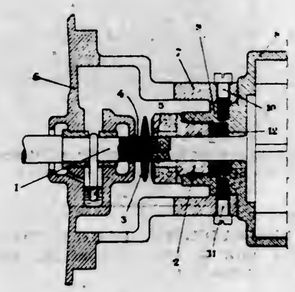
1. In combination with the rotary brush member of a timer, and the supporting arms thereof, a brush carrying arm including an arm having a curved section embracing the supporting arms of the rotary brush member, said brush carrying arm having a contact point formed on one of the side faces thereof, and means carried by the brush carrying arm and engaging the supporting arms of the rotary brush, for preventing lateral movement of the brush carrying member with relation to the arms.

1,349,328. POWER-TRANSMISSION MECHANISM. JOSEPH DE MARTINO, Chicago, Ill., assignor to Mechanical Improvement Co., Chicago, Ill., a Corporation of Illinois. Filed July 16, 1918. Serial No. 245,186. 9 Claims. (Cl. 74—53.)



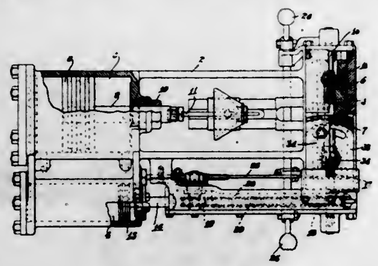
1. The combination of a longitudinally shiftable driving-shaft, variable-throw transmission mechanism, said mechanism comprising an eccentric adjustable by and actuated through the medium of said driving-shaft, and a pair of counter-shafts equipped with wheels for effecting rotation thereof and with oscillating members for effecting rotation of said wheels, connections between said eccentric and said oscillating members for positively actuating the oscillating members in both directions, a driven shaft and actuating means therefor actuated by said counter-shafts, and means for regulating the position of said driving-shaft.

1,349,329. COUPLING FOR COUPLING PUMPS TO ELECTRIC MOTORS. ARTHUR DISPOT, Paris, France. Filed Mar. 3, 1919. Serial No. 280,264. 1 Claim. (Cl. 64—107.)



In a coupling for the direct coupling together of a pump and an electric motor the combination with the motor shaft and the driven pump shaft located substantially in alinement with each other with a short distance left between the adjacent ends of the two shafts, of a disk of relatively large diameter as compared with the diameter of the shafts located between said two shaft ends with its plane approximately at right angles to the axes of said two shafts, two tenons formed on opposite faces of said disk, extending across said axes and disposed each at right angles to the other, and corresponding slots formed in the said adjacent ends of said two shafts to receive said tenons, whereby the rotational driving power is transmitted from said motor shaft to said pump shaft, and any leakage of liquid that may have leaked through the pump shaft stuffing box will be caught and deflected by said disk and thereby prevented from reaching the motor.

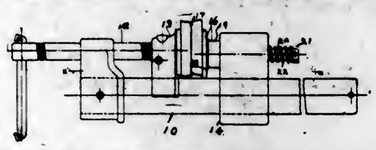
1,349,330. FLUID-OPERATED VISE. JESSE DITSON, Littleton, Colo., assignor, by mesne assignments, to Ingersoll-Rand Company, a Corporation of New Jersey. Filed July 22, 1919. Serial No. 312,570. 7 Claims. (Cl. 76—5.)



1. In a pinning out machine for drill steels, a pair of movable vise jaw members, a left and right screw threaded member for moving said jaw members, a gear on the end of said threaded member and piston and chain mechanism for rotating said threaded member.

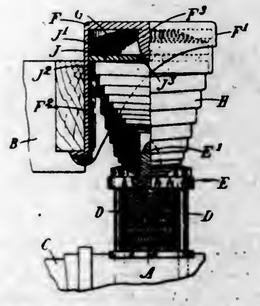
1,349,331. CLAMP. JOHN P. DOLAN, Hartford, Conn., assignor of two-thirds to Joseph M. Motto, Hartford, Conn. Filed Aug. 20, 1919. Serial No. 318,650. 3 Claims. (Cl. 144—303.)

1. A clamp comprising a bar having a screw clamping member at one end and an adjustable clamping member for being positioned at different positions along the said bar, the said adjustable clamping member comprising a body slidably engaged with the said bar, a shoe for contacting with the work that is slidably engaged with the said body, and a dog positioned between the said shoe and bar and



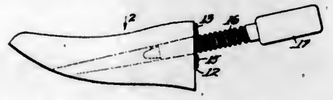
housed in the said body, and the said shoe having an inclined driving face that coöperates with the said dog for driving the dog against the said bar.

1,349,332. VEHICLE SPRING SUSPENSION. CHARLES KEARNS EDWARDS, Chingford, London, England. Filed May 24, 1920. Serial No. 383,021. 2 Claims. (Cl. 267—60.)



1. A vehicle spring-suspension comprising the combination with a main leaf-spring, of two auxiliary volute springs superposed thereon, one of which auxiliary springs is of such strength relatively to the other that it will remain virtually uncompressed until the load is such as to completely compress the lighter volute spring, and is made of a tapered strip of steel tapered edgewise to a knife-edge at both ends whereof one is narrower than the other, which strip increases in width for about three-quarters of its length from the narrower end, the degree of taper in width from the narrower end up to a point situated approximately one-eighth of the length of the strip away therefrom being greater than the degree of taper from said point to the point where the width is a maximum, substantially as and for the purpose set forth.

1,349,333. SHOE-STRETCHER. ANSHELM BURTON ELMSTROM, Worcester, Mass., assignor to Robert M. Elmstrom, doing business under the name of Standard Manufacturing Company, Worcester, Mass. Filed Dec. 4, 1918. Serial No. 265,274. 3 Claims. (Cl. 12—132.)

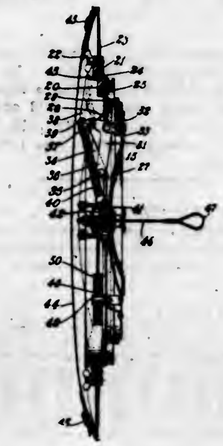


1. A shoe stretcher comprising two wooden blocks connected by a spring plate at their rear ends, said blocks being threaded from their rear ends forwardly, the screw threads being formed directly in the wood of the adjacent portions of said blocks and decreasing in depth toward the front ends of said blocks, and a wood screw of uniform pitch diameter throughout and fitting said threads at their rear full size portion, said screw being effective to separate said blocks at their front ends as said screw is advanced along said threads.

1,349,334. PROCESS OF PRODUCING WHITE LEAD. EDWIN EUSTON, Scranton, Pa. Filed Mar. 22, 1919. Serial No. 284,371. 2 Claims. (Cl. 134—75.)

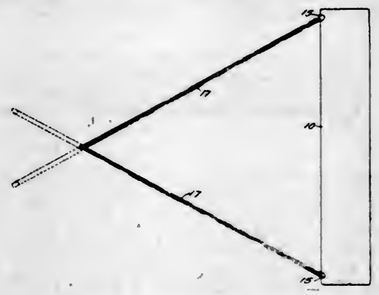
1. The process of producing white lead consisting in treating approximately neutral lead acetate solution with carbon dioxid gas, and introducing thereinto basic lead acetate solution in amount and at a rate sufficient to maintain the said approximately neutral condition of the said solution, and then treating the resultant solution and precipitate with carbon dioxid gas until a part of the precipitate of basic lead carbonate is converted into normal lead carbonate, thus yielding a mixture in proportions to form a product containing 11.3 per cent. to 14.3 per cent. of carbon dioxid.

1,349,335. BALLOON-VALVE. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Oct. 4, 1918. Serial No. 256,887. 5 Claims. (Cl. 244—3.)



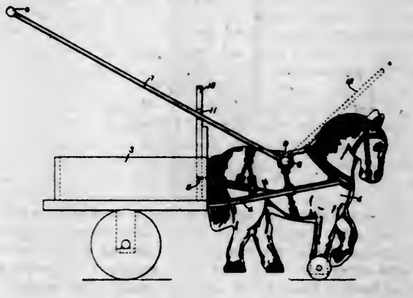
1. The combination, with a fluid-pressure receptacle, of an inwardly-opening disk-type valve controlling an outlet from said receptacle, an annular seat for said valve, a flexible-lipped, circumferential edge member on the valve, extending substantially radially outward therefrom, for sealing the valve edge against said seat and adapted to remain in sealed engagement with the seat during a substantial part of the movement of the valve body inwardly away from said seat, a spring, a lever connection between said spring and valve for permitting a large movement of the valve for a small variation of spring tension, and mechanical means for forcing said valve open against the spring and the fluid pressure.

1,349,336. AERONAUTICAL APPARATUS. CHARLES C. HADDOCK, Beverly, Mass. Filed Feb. 9, 1918. Serial No. 216,191. 3 Claims. (Cl. 33—46.)



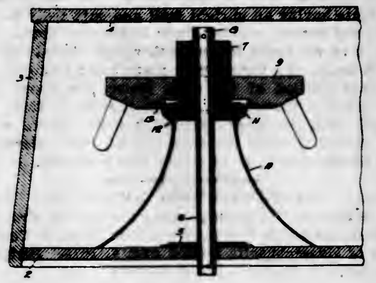
1. An aeronautical apparatus comprising an aeroplane, two sources of illumination mounted upon the aeroplane and each arranged to project a beam of light downward and toward the beam of the other in a manner to cause the two converging beams to intersect at a given point below the aeroplane.

1,349,337. TOY. FRANK HARRY HALL, Yonkers, N. Y. Filed Nov. 4, 1918. Serial No. 260,987. 4 Claims. (Cl. 46—22.)



1. A toy horse and cart comprising, in combination, a horse and cart rigidly secured together, rigid reins pivotally connected to the horse and means for rigidly but detachably securing said reins to said cart to prevent pivotal movement thereof.

1,349,338. WASHING-MACHINE. HERMAN C. HIRSCHY, Minneapolis, Minn., assignor to The Hirschy Company, Minneapolis, Minn., a Corporation of Minnesota. Filed May 18, 1918, Serial No. 235,370. Renewed July 21, 1919. Serial No. 312,321. 6 Claims. (Cl. 259—101.)

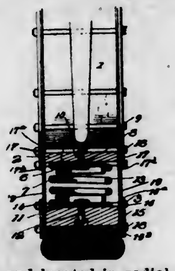


1. The combination, with a washing machine tub and its dolly and a drive shaft for said dolly projecting upwardly through the bottom of the tub, of a guard interposed between said dolly and the bottom of the tub and having a head at its upper end provided with a surface for directing the clothes outwardly and downwardly away from the bearing between the dolly and guard, the walls of said guard flaring outwardly and downwardly from said head to direct the clothes toward the walls of the tub and into the path of the dolly arms.

1,349,339. SPRING-WHEEL. HENRY M. HORNE, Sulphur Springs, Tex., assignor of one-half to W. J. Sudderth, Sulphur Springs, Tex. Filed Jan. 18, 1919, Serial No. 271,856. Renewed July 3, 1920. Serial No. 394,013. 2 Claims. (Cl. 152—8.)

2. A spring wheel comprising inner and outer spaced rims, the opposing surfaces of which are transversely flat, springs interposed between and supported on the flat surfaces, means for anchoring the opposite ends of the springs, flanges on the opposite sides of the inner and outer rims, said flanges extending beyond the edges of the rims, flexible closures interposed between the rims and

the flanges, bolts connecting the extended portions of the opposite flanges on the sides of the inner rim and located in radial planes between the springs and engaging the inner and outer surfaces of said rim, bolts connecting the extended portions of the flanges on the sides



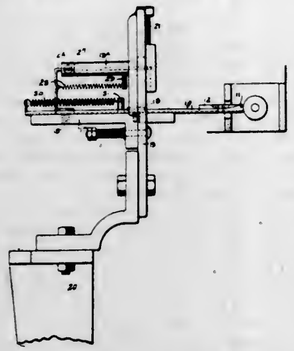
of the outer rim and located in radial planes between the springs and engaging the inner and outer surfaces of said outer rim, and a resilient tire on the outer periphery of the outer rim, said tire being retained in position by the extended flanges and the bolts connecting same.

1,349,340. STAKING DEVICE FOR ROAD-RAILS. MARK S. HITCHKISS, Binghamton, N. Y. Filed Jan. 27, 1920. Serial No. 354,351. 8 Claims. (Cl. 25—118.)



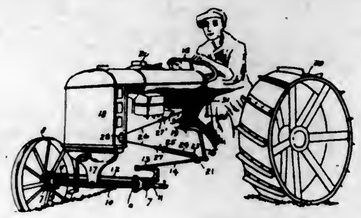
7. A form for concrete and similar work comprising a main plate having an upright wall and outwardly projecting slotted flanges, slotted lower and upper brace plates disposed at an angle to each other and hinged together at said angle, the lower brace plate being engaged with the lower portion of the main frame, the upper brace plate passing through the slot in the upper flange and engaged with the inner and outer faces thereof and a stake passed through the slots in both brace plates and lower flange adapted to be driven into the earth.

1,349,341. WEFT-DETECTING MECHANISM. ALLAN S. HUTCHINS, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1919. Serial No. 315,153. 8 Claims. (Cl. 139—85.)



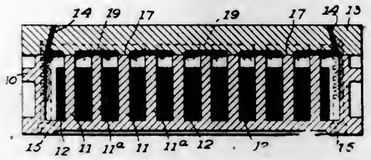
1. In a loom, a weft detector having a plurality of weft-engaging faces, means to hold any selected face in operative position, and weft-replenishing mechanism controlled by said detector.

1,349,342. TRACTOR-STEERING CONTROL FOR PLOWING. WALTER A. JACKSON, Laurel, Ind. Filed Sept. 2, 1919. Serial No. 321,199. 5 Claims. (Cl. 280—87.)



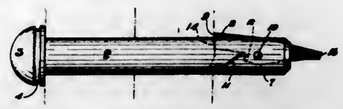
1. The combination with a tractor having steering wheels one of which tracks the furrow in plowing and means to steer the wheels comprising a stub-axle arm, a steering arm and a link connecting said arms, of means attached to the link to influence the said furrow wheel out of a straight forward direction and toward the land side of the furrow.

1,349,343. MAGNETIC CHUCK. JOHN L. MORAN, Worcester, Mass., assignor to Heald Machine Company, a Corporation of Massachusetts. Filed Nov. 11, 1919. Serial No. 337,137. 4 Claims. (Cl. 175—367.)



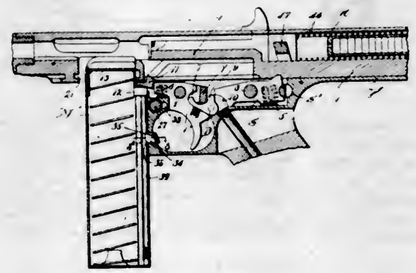
1. A magnetic chuck, having, in combination a base having a plurality of magnet cores thereon, coils for said cores, and a face plate comprising an outer frame having an opening, a plurality of pole pieces forming a unitary structure with bars connecting the lower portions thereof and engaging certain of said cores of one polarity, and a plurality of separate pole pieces mounted alternately with the first mentioned pole pieces and above said bars and having lugs projecting downwardly between said bars to engage certain other of said cores of the opposite polarity, all of said pole pieces being rigidly held in spaced relation in the opening in said frame.

1,349,344. SECURING-BOLT. ARTHUR M. O'NEILL, Pittsburgh, Pa., assignor to John D. Brown, Pittsburgh, Pa. Filed Jan. 14, 1919. Serial No. 271,031. 1 Claim. (Cl. 85—3.)



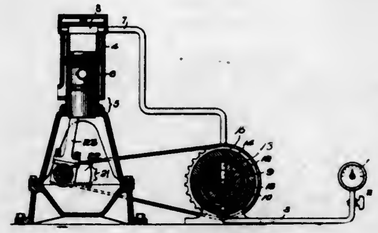
A securing bolt having a head at one end and provided at its other end with a longitudinal central slot extending centrally through the major portion of the bolt with an outer opening at one side, a closing wall at the other side and an outwardly sloping inner bearing end, a locking dog pivotally mounted at its middle portion in said slot between the sides of the bolt provided at its inner end with a sloping abutment terminal adapted to be depressed flush with the bolt periphery and against said sloping bearing and at its outer end with a tapered terminal extending beyond the end of the bolt and lengthwise thereof and a spring mounted in the slot between the locking dog and the bolt adapted to normally extend the inner end of the locking dog outwardly beyond the bolt.

1,349,345. FIREARM. OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed May 15, 1919. Serial No. 297,282. 38 Claims. (Cl. 42—70.)



1. A firearm comprising an automatic breech closure movable to and from the firing chamber, means for supporting a magazine on the firearm in such a manner that cartridges may be automatically fed to the firing chamber, means including a sear for retaining the breech closure in retracted position, means including a trigger for disengaging said sear from the breech closure, and means for automatically rendering said trigger means inoperative to disengage the sear from the breech closure after the last cartridge has been fired, whereby the breech closure is automatically retained in retracted position after the last cartridge is fired.

1,349,346. ENGINE-INDICATOR. DELMAR G. ROOS, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed July 17, 1916. Serial No. 109,625. 9 Claims. (Cl. 73—111.)



1. In an indicator for pressure fluid engines, the combination of pressure-responsive means, and engine-driven means including a valve having a cycle of movement corresponding in duration to the piston's power stroke and means through which said valve establishes communication between the engine's cylinder and said pressure-responsive means during a predetermined portion only of the piston's power stroke and during a predetermined portion only of said cycle of movement of said valve.

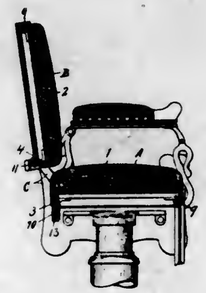
2. In an indicator for pressure fluid engines, the combination of pressure-responsive means, engine-driven means including a valve having a cycle of movement corresponding in duration to the piston's power stroke, means to cause said valve to establish communication between the engine's cylinder and said pressure-responsive means during a predetermined portion only of the piston's power stroke, and during a predetermined portion only of said cycle of movement of said valve, and means at will to determine the particular point in said valve's cycle and in such power stroke at which such communication will be established.

3. In an indicator for pressure fluid engines, the combination of pressure-responsive means, and valve means including two coöperating valve elements one of which is driven continuously during the power stroke in definitely timed relation with the engine and the other of which is adjustable with reference to the travel of the first, said valve means having provision to establish communication between the engine's cylinder and said pressure-responsive means at a period in the piston's stroke, which period is determined by such adjustment.

4. An instrument of the class described comprising, in combination, a pressure-fluid supply conduit, pressure-responsive means, and means to place said pressure-responsive means in communication with said supply conduit, the second mentioned means comprising a valve and a valve casing, valve operating means for relatively moving said valve and valve casing, and means for varying the timing of said alve by moving said valve casing.

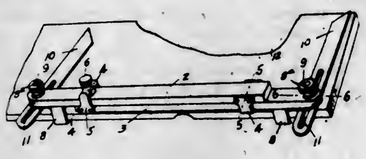
5. An instrument of the class described comprising, in combination, a pressure fluid supply conduit, pressure-responsive means, and means to place said pressure-responsive means in communication with said supply conduit, the second-mentioned means comprising a rotatable valve, valve operating means, and rotatable means directly coöperating with said valve for varying the timing of said valve.

1,349,347. CUSHION-COVER FOR THE SEATS AND BACKS OF CHAIRS. ROBERT STEINMETZ, Rochester, N. Y., assignor of one-tenth to Samuel S. Andursky, Rochester, N. Y. Filed Mar. 8, 1917. Serial No. 153,474. 1 Claim. (Cl. 155—183.)



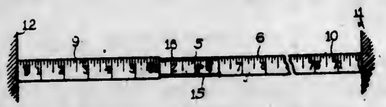
In combination with the main frame of a chair having a seat and a back hinged to the frame near its lower edge to swing forwardly and rearwardly, rollers supported wholly below the bottom of the seat near the front and rear edges thereof, an endless belt covering extending across the top and front and rear edges of the seat and around the underside of the rollers, a pressure roller spring pressed against the underside of the belt covering directly under the rear roller, additional rollers wholly at the rear side of the back near the lower and upper edges thereof, a separate endless belt covering extending across the front and lower and upper edges of the back and around the rear sides of said additional rollers, and an additional presser roller spring pressed against the back covering at the rear of its lowermost roller, gears secured to one end of the rear roller of the seat covering and lower roller of the back covering, respectively, an intermediate gear meshing with said gears and substantially coaxial with the axis of movement of the back of the chair, and means for rotating said intermediate gear for effecting the simultaneous operation of both endless belt coverings for the seat and back.

1,349,348. STAIR-RULE. GEORGE F. THIELMAN, St. Cloud, Minn. Filed Apr. 8, 1919. Serial No. 288,477. 5 Claims. (Cl. 33—98.)



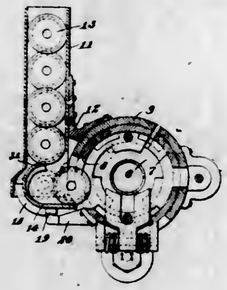
2. A stair rule comprising a pair of bars mounted to slide one upon the other, an arm slidably and pivotally mounted on the outer end of each bar, and a guide loop on the inner end of each bar guidingly receiving the companion bar and designed to receive the adjacent arm when the latter is folded into registry with the respective bar and then moved lengthwise thereof for holding the arms in their folded inoperative position.

1,349,349. RULE ATTACHMENT. KNUT G. THIMAN, New York, N. Y. Filed Aug. 14, 1919. Serial No. 317,395. 3 Claims. (Cl. 33—106.)



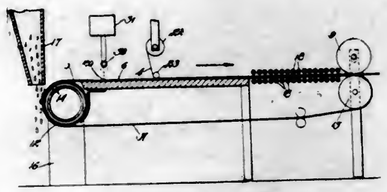
3. A rule attachment including a strip to be attached to a rule, and numerically marked in the opposite direction to the part covered, a second strip slidably attached to said first strip having thereon the same numerals and markings as the portion of the rule covered by said first strip, and stops upon said first strip adapted to engage said second strip on both extreme extended and withdrawn positions.

1,349,350. MAGAZINE. CHARLES A. TUNKS, Cleveland, Ohio, assignor to Auto Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 12, 1920. Serial No. 373,165. 13 Claims. (Cl. 42—17.)



1. In combination with a gun having fixed and reciprocating parts, a magazine adapted to contain cartridges attached to the fixed parts, the magazine having a closure at the bottom thereof, the closure having a cam guide thereon, an actuating lug attached to the reciprocating part, and coacting with the cam guide to move the magazine closure to release the lowermost cartridge during the movement of the reciprocating part of the gun, and means to return the closure to the closed position.

1,349,351. MACHINE FOR MANUFACTURING COMPOSITE MICA. DONALD WALING, Keene, N. H., assignor to Keene Mica Products Company, Keene, N. H., a Corporation of New Hampshire. Filed Apr. 11, 1919. Serial No. 289,343. 7 Claims. (Cl. 91—18.)



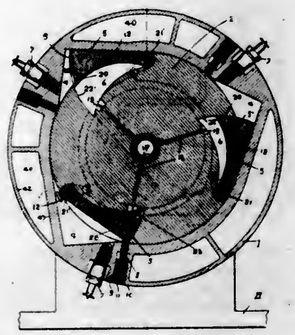
1. In a machine for laying mica, the combination of an endless traveling reticulated bed member, a reticulated drum over which the bed member moves, means for exhausting the air from the interior of the drum, means for supplying mica to the bed member at the area of contact with the suction box, and means for applying a binder to the mica while still on the surface of the bed member.

1,349,352. INSULATED RAIL-JOINT. GEORGE W. WHITEMAN, Philadelphia, Pa. Filed May 27, 1920. Serial No. 384,555. 8 Claims. (Cl. 238—158.)



1. The combination, with a pair of rails, of a sheet of insulating material interposed between the meeting ends of said rails, and insulated means for holding said rail ends together and maintaining them in contact with said interposed sheet of insulating material.

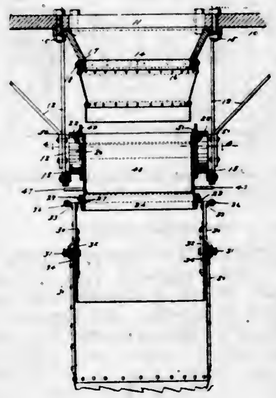
1,349,353. ROTARY ENGINE. OSCAR HOWARD WILBER, Jr., Mobile, Ala. Filed July 17, 1918. Serial No. 245,387. 6 Claims. (Cl. 123—17.)



1. In a motor the combination with a stationary casing, a rotary member located rotatably within the said casing and having its axial line in coincidence with that of the casing, a shaft fixed to the said rotary member, a main gas passage leading through a portion of the said shaft, a hinged piston upon the rotary member and pockets in the said member to receive the said pistons, combustion chambers corresponding in number to the pistons located upon the inner wall of the casing, supplemental passages leading from the main gas supply

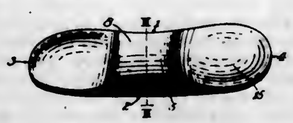
passage to the respective pockets whereby a quantity of gas is drawn into the said pocket by the outward movement of the piston and means whereby the said quantity of gas is compressed and then admitted between one of the abutting walls of a combustion chamber and the head of a piston to revolve the rotary member.

1,349,354. GRAIN-SPOUT MECHANISM. LEONARD E. WRAY, Minneapolis, Minn. Filed Jan. 8, 1919. Serial No. 270,168. 7 Claims. (Cl. 193—38.)



6. The combination with a discharge spout, of an overhead track located below the discharge spout, a traveling truck on the track, a distributing spout carried by the truck and arranged to be transported thereby to and from a position under the discharge spout, a coupling sleeve telescopically connected to the distributing spout, a lever fulcrumed to the truck and independently pivoted to the coupling sleeve, a connection for operating the lever to retract the coupling sleeve, a spring compressed between the truck and lever and tending to move said lever into a position to project the couping sleeve in registration with the discharge spout, and a latch for holding the lever when the coupling sleeve is in a retracted position.

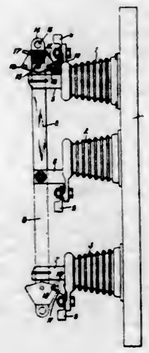
1,349,355. ARCH-SUPPORT. JAMES L. ZINK, Indianapolis, Ind. Filed Oct. 24, 1919. Serial No. 333,097. 4 Claims. (Cl. 36—71.)



1. A flexible foot-arch supporter having a plurality of superimposed layers of fabricated flexible material, each layer having a resilient adhesive substance incorporated therein and extending to one surface of the layer and also to the next adjacent layer of the material.

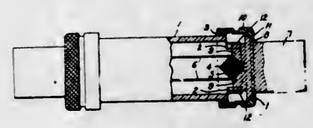
1,349,356. LATCHING DEVICE. ANDREW H. BAKKEN, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 3, 1916. Serial No. 95,055. 13 Claims. (Cl. 200—160.)

9. A switch comprising relatively movable contact members, a latching member relatively-movably mounted on one of said contact members, means for normally retaining said latching member at an intermediate position in its



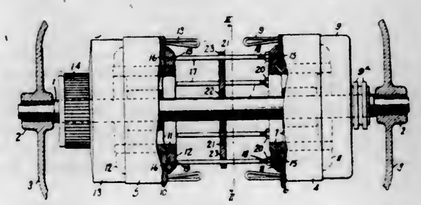
path of movement and a coöperating latching member therefor.

1,349,357. FUSE. ANDREW H. BAKKEN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 13, 1918. Serial No. 234,133. 9 Claims. (Cl. 200—132.)



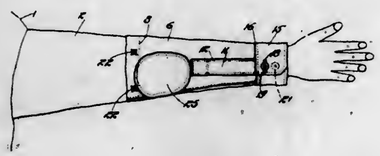
1. A fues device comprising a terminal member having a transversely-extending oblique face, and a relatively movable member having a surface conforming to the surface of said terminal member for the purpose of wedging a fusible element against the same.

1,349,358. SHAFT-BRACING. DAVID BARCLAY, Conneautville, and ADOLPHUS M. DUDLEY, Oakmont, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 10, 1915. Serial No. 50,104. 4 Claims. (Cl. 171—206.)



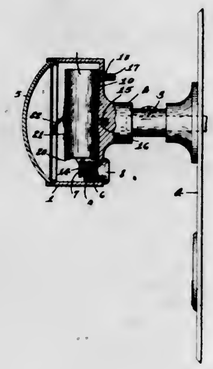
1. In a dynamo-electric machine, the combination with a rotatably mounted shaft, a plurality of rotors of separate and electrically independent dynamo-electric machines mounted thereon in spaced relation, of means mounted on said rotor members for bracing said shaft intermediate said rotors.

1,349,359. GARMENT. JACOB L. BARNETT, Newton, Mass. Filed Nov. 18, 1918. Serial No. 262,984. 2 Claims. (Cl. 2—94.)



1. A shirt sleeve formed with a cuff having overlapping side edges, one of the overlapping sides being provided with a button on one face of the cuff near its edge, and the other overlapping side being provided with a button on the reverse face of the cuff near its edge, one of said buttons being nearer the outer end of the cuff than is the other button, a buttonhole near each side edge of the cuff, said buttonholes extending entirely through the cuff, one of said buttonholes being nearer the outer end of the cuff than is the other, one of said buttonholes being so located as to engage with one of the buttons when the sleeve is turned one side out, while the other button and buttonhole are both concealed, and said other button and buttonhole being exposed on the outer face and adapted to engage with each other when the cuff and sleeve are turned with the reverse side out, said first button and buttonhole then being concealed.

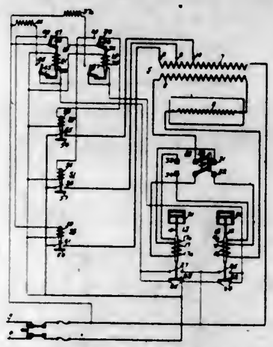
1,349,360. KEYHOLE-ILLUMINATING DEVICE. GEORGE E. BATES, Syracuse, N. Y. Filed Jan. 24, 1917. Serial No. 144,288. 6 Claims. (Cl. 240—2.)



2. The combination of a door knob provided with a lamp arranged eccentric to the axis of the door knob, a battery mounted on the interior of the knob, and movable about an axis to make and break the connection between it and the lamp, and means exposed on the outside of the door knob for rocking the battery, substantially as and for the purpose described.

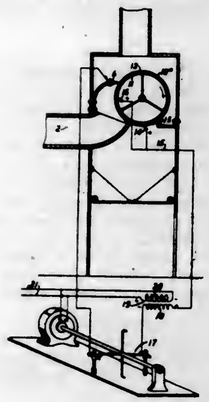
1,349,361. FURNACE-REGULATOR SYSTEM. EDGAR M. BOUTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1919. Serial No. 288,676. 17 Claims. (Cl. 204—64.)

1. In a furnace-regulator system, an electric furnace, a transformer for connecting the furnace to a supply circuit, and means controlled by the value of the current flowing through the furnace for automatically varying the effective



turns of said transformer to maintain a substantially constant current-flow through the furnace.

1,349,362. ELECTRICAL PRECIPITATING SYSTEM. LEWIS W. CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 6, 1917. Serial No. 140,940. 11 Claims. (Cl. 183—7.)

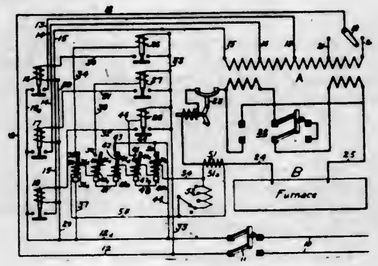


1. In a system for electrically precipitating suspended particles from flowing fluid streams and thereafter collecting said particles on a stream boundary, the combination with a casing forming a treating chamber, of a discharge electrode, a coöperating rotatable collecting electrode, means for rotating said collecting electrode and means for impressing electrical potentials of opposite polarity upon said electrodes, said electrodes being so positioned in said treating chamber that permanently active and inactive zones of the electric field extending therebetween are formed.

1,349,363. CONTROL SYSTEM FOR ELECTRIC FURNACES. ORA A. COLBY, Larimer, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 15, 1919. Serial No. 277,308. 18 Claims. (Cl. 204—64.)

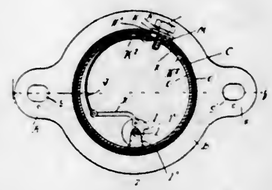
1. An electrical heating system comprising a main heating element the temperature of which is to be regulated, an auxiliary heating element out of thermal communication with the main heating element and receiving

current in proportion to that supplied to the main heating element, means for adjusting the ratio of the currents in the two heating elements, and means actuated in response



to variations of the temperature of the auxiliary heating element for regulating the temperature of the main heating element.

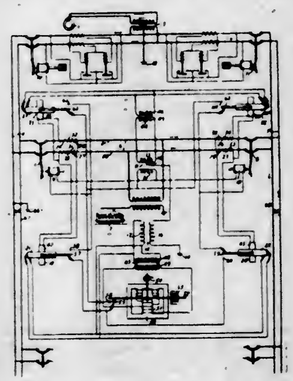
1,349,364. ADJUSTABLE THERMOSTAT. LLOYD GROFF COPEMAN, Flint, Mich., assignor to Copeman Electric Stove Company, Flint, Mich., a Corporation of Michigan. Filed July 29, 1916. Serial No. 112,173. 3 Claims. (Cl. 200—138.)



1. In a thermostatic circuit-closing device, the combination with a casing, of mechanism within the casing comprising a ring co-axial with said casing, thermostatic means in said casing, a pointer actuated by said thermostatic means and adapted to act as one of the terminals of an electric circuit, adjustable supporting means for said thermostatic means, insulation between said ring and said casing, a manually adjustable arm coöperating with said pointer and adapted to act as the other terminal of an electric circuit, and insulation between said arm and said casing.

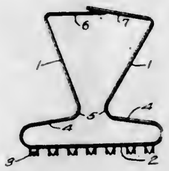
1,349,365. SYSTEM OF DISTRIBUTION FOR RAILWAY FEEDER-CIRCUITS. ALMON W. COPLEY, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 8, 1917. Serial No. 153,293. 9 Claims. (Cl. 175—294.)

1. In a system of distribution, the combination with a load circuit, feeder circuits for supplying power to the ends of said load circuit, and circuit interrupters inserted adjacent to the respective ends thereof, of relays for controlling the operation of said circuit interrupters, a winding connected to said load circuit and having a grounded neutral point, and means controlled by the variation of the potential of said neutral point, upon the occurrence of abnormal conditions in the feeder circuits, for properly



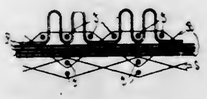
energizing the relays to selectively actuate the said circuit interrupters.

1,349,366. TIRE-ABRADER. FRANK N. CORDELL, St. Louis, Mo. Filed Aug. 28, 1918. Serial No. 251,825. 2 Claims. (Cl. 29—78.)



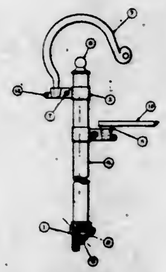
1. An abrading device for rubber comprising a single piece of metal bent intermediate its length and punched to form an abrading surface, the metal at opposite ends of the abrading surface being inwardly bent and said bent portions being spaced apart and thence bent upwardly to form opposite handles, the metal at the ends of the upwardly bent handles being bent inwardly and overlapped and relatively movable, whereby when the handle portions are squeezed together, the abrading surface is bulged downwardly to stiffen said surface when downward pressure is exerted on the handles.

1,349,367. CARPET-WEAVE. GEORGE CROSSLAND, Jessups, Md., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 19, 1920. Serial No. 359,775. 3 Claims. (Cl. 139—71.)



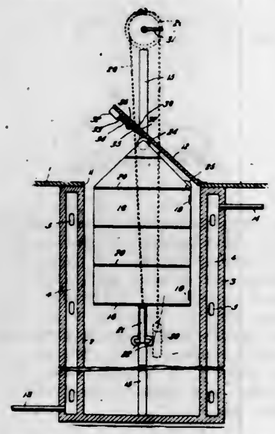
1. A carpet weave having, in combination, binder warps, stuffer warps, pile warps, and filling threads, three shots of filling threads being inserted above the pile warps and one below said warps at each crossing of the binder warps, and an additional filling shot being inserted between the stuffer warps and outside of the binder warps at each binder warp crossing.

1,349,368. APPLIANCE. PHILIP CROWDER, North Weymouth, Mass. Filed Nov. 24, 1919. Serial No. 340,392. 2 Claims. (Cl. 45—82.)



1. A device of the character described comprising a member to engage one side of a support; a second member slidably mounted on the first member; and a third member movably mounted on the second member and adapted to engage the other side of the support to hold the first member to the support and to hold the second member against sliding along the first member.

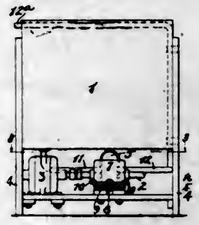
1,349,369. REFRIGERATOR. FREDRICK J. DAHLKE, Damascus, Ohio. Filed June 4, 1919. Serial No. 301,831. 4 Claims. (Cl. 187—3.)



2. A device of the character described comprising a shaft, a hinged door covering said shaft, a spring lock upon said door, a refrigerator within said shaft, means for raising and lowering the refrigerator within the shaft and means for automatically unlocking said spring lock and raising the door as the refrigerator is raised.

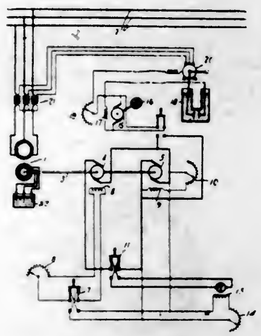
1,349,370. WASHING-MACHINE. WILLIAM G. DAWSON, Mount Vernon, N. Y. Filed Sept. 18, 1919. Serial No. 324,373. 2 Claims. (Cl. 103—79.)

1. In a device of the character described, the combination of a tub, means for supporting the same, a pump supported adjacent said tub, means for driving said pump, a combined filling and emptying pipe connecting said pump and tub, a combined suction and discharge pipe connected to said pump and a reversible clutch mechanism connected to said pump for driving the latter in either direction whereby when the pump is driven in one direction water will flow through said suction and discharge pipe, pump and filling and emptying pipe into the tub for filling the latter and when the pump is driven in



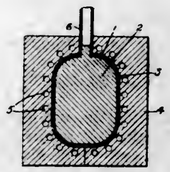
the other direction water will flow through said filling and emptying pipe, pump and suction and discharge pipe from the tub for emptying the latter.

1,349,371. ELECTRICAL SYSTEM. SIEGMUND HANS ECKMANN, Manchester, England, assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 14, 1915. Serial No. 39,918. 12 Claims. (Cl. 171—312.)



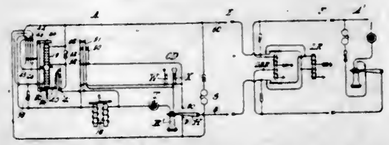
8. In a motor-control system, the combination with a source of energy, and an electric motor, of means for translating energy from said source to said motor, said means comprising an electric circuit including a plurality of generators, one only of which operates at substantially constant voltage, and means for supplying energy to, or absorbing energy from, said translating means in accordance with the value of the current supplied by said source.

1,349,372. METHOD OF MAKING HOLLOW BODIES. WILLIAM F. EGAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 15, 1919. Serial No. 277,218. 5 Claims. (Cl. 18—55.)



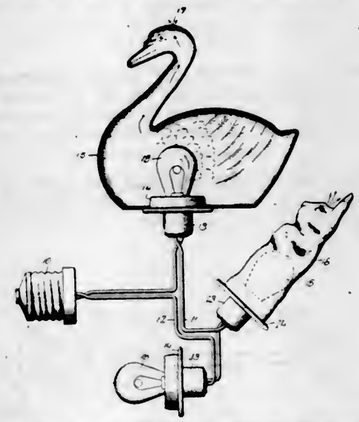
3. A method of making hollow bodies that comprises superimposing layers of sheet material impregnated with a binder about a core including a metal having a low fusing point inclosed by a metal covering having a relatively high fusing point, disposing the body in a suitable mold, applying heat to fuse the core and to harden the binder, applying pressure to compact the sheet material simultaneously with the application of heat and removing the fused core from the body after the binder has been hardened.

1,349,373. MEASURED-SERVICE TELEPHONE SYSTEM. JOHN ERICKSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 15, 1916. Serial No. 137,161. 28 Claims. (Cl. 179—6.5.)



1. In a telephone system, the combination with substation telephone equipment, of a device associated therewith adapted to receive a coin deposited upon the initiation of a call and to collect or refund the same dependent on whether or not the call is successful, said device comprising a coin retaining member movable at both ends, together with automatic means for moving said member at either end separately to collect or refund the coin as occasion demands.

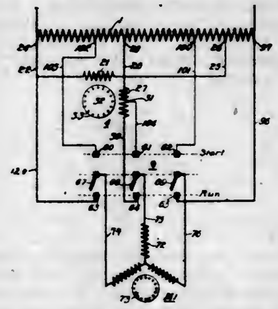
1,349,374. CHRISTMAS-TREE ORNAMENT. JULIUS J. GRUENFELD, Jr., Chicago, Ill., assignor to Associated Engineers Company, Chicago, Ill. Filed Nov. 7, 1917. Serial No. 200,667. 2 Claims. (Cl. 240—10.)



1. A device of the character described comprising an electric lamp socket, a lamp therefor having a screw threaded plug adapted to fit said socket, and an ornament carrier having an ornament supporting ring and an insulating plate contained within said ring, said plate having a screw threaded opening adapted to be engaged by said plug to thereby support said carrier on the lamp.

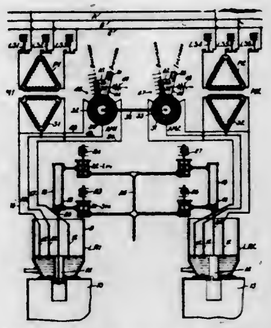
1,349,375. SYSTEM OF CONTROL. ARTHUR J. HALL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 5, 1917. Serial No. 178,598. 3 Claims. (Cl. 172—274.)

3. In a control system, the combination with a main source of energy, of an auxiliary source of energy having one winding connected to certain points of said source and another winding connected to a different point of the source, a dynamo-electric machine, and means for initially connecting said machine to certain intermediate points of said main source and of said other winding to



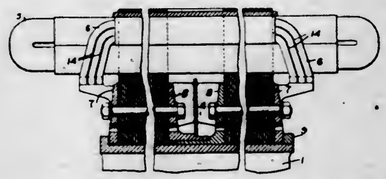
start the machine and for subsequently connecting said machine to higher-voltage points of said main source and to the corresponding terminal of said other winding to run the machine.

1,349,376. CONTROL SYSTEM. RUDOLF E. HELLMUND, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1916. Serial No. 70,437. 33 Claims. (Cl. 172—274.)



3. In an electrically-propelled vehicle, the combination with a plurality of driving induction motors suitably associated with the vehicle wheels, of means dependent upon predetermined slippage of any wheels for automatically causing the corresponding motor to eliminate said slippage.

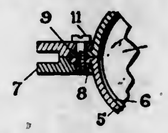
1,349,377. DYNAMO-ELECTRIC MACHINE. RUDOLF E. HELLMUND, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 7, 1916. Serial No. 82,693. 12 Claims. (Cl. 172—120.)



1. In a dynamo-electric machine, the combination with a slotted magnetizable core, of a plurality of independent

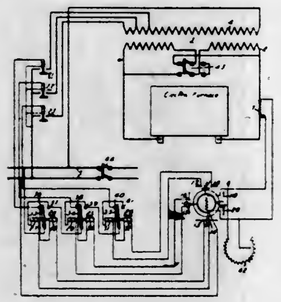
windings of different types disposed within the same slots upon said core, and a plurality of connecting means for one of said windings extending intermediate adjacent coil sides of the straight coil portions of the other winding.

1,349,378. OPHTHALMIC MOUNTING. PITT H. HERBERT, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed July 17, 1919. Serial No. 311,400. 3 Claims. (Cl. 88—47.)



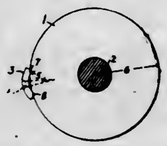
1. A frame of the character described comprising an eye wire bent into shape to receive a lens, and terminating in outwardly deflected parallelly disposed end portions, an end piece member having an outer kerf to receive a temple, and having at its inner portion grooves to receive the outwardly deflected ends of the eye wire, means for securing a temple within the kerf, and means for securing the outwardly deflected eye wire ends in the grooves of the temple end piece member.

1,349,379. CONTROL SYSTEM FOR ELECTRIC FURNACES. EDGAR A. HESTER, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 30, 1918. Serial No. 260,272. 14 Claims. (Cl. 204—64.)



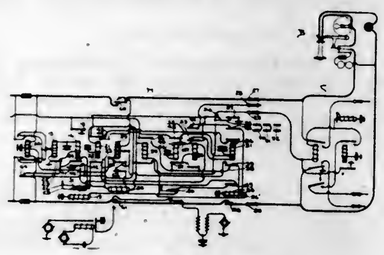
2. The combination with an electric furnace and a source of power supply therefor, of a thermal relay operatively associated therewith, switching means requiring an actuating current larger than can be used with said relay, for varying the amount of power taken by said furnace, and transfer means interposed between said relay and said switching means whereby they may be operatively connected.

1,349,380. CONTROL APPARATUS. OLIVER P. HIPPLE, Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 6, 1917. Serial No. 140,943. 8 Claims. (Cl. 200—8.)



4. A control drum embodying a contact segment located on the cylindrical surface of the drum and having a radius of curvature less than that of the drum.

1,349,381. AUTOMATIC TELEPHONE SYSTEM. EMIL JACOBSEN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 25, 1918. Serial No. 224,429. 6 Claims. (Cl. 179—18.)



1. In a telephone system, calling and called lines, a plurality of automatic switches for establishing a connection between a calling and a called line, means controlled by the calling subscriber for releasing the connection, means controlled by the called subscriber for preventing the release of the last of said switches in the connection when the connection is released, means for making said switch busy to other calls while the connection is established and means for removing said busy condition while the switch is being held by the called subscriber whereby said switch may be automatically released by another subscriber and used for another call.

1,349,382. METHOD OF REMOVING LEAD FROM COPPER-SCRAP. JESSE L. JONES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,500. 5 Claims. (Cl. 75—62.)

1. The method of removing certain impurities from copper scrap which comprises melting the copper scrap, adding copper scale thereto to oxidize the impurities and separating the purified copper and the oxidized impurities.

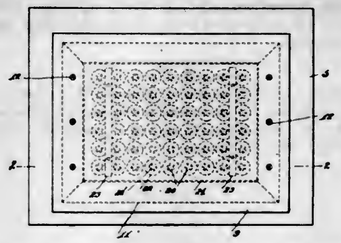
1,349,383. PIPE-CORE MACHINE. HARRY M. S. KLEYENSTEUBER, Birmingham, Ala. Filed Sept. 29, 1919. Serial No. 327,311. 10 Claims. (Cl. 22—12.)



4. In a machine for forming pipe-cores, a bed having forward extensions at its ends, anti-friction supporting elements for a core arbor adjustably mounted on said extensions, a knife support hinged to the frame and having arms projecting over said extensions, adjustable stops which support the free ends of said arms and a knife blade carried by the support and disposed substantially tangential to the sand core being formed on the arbor.

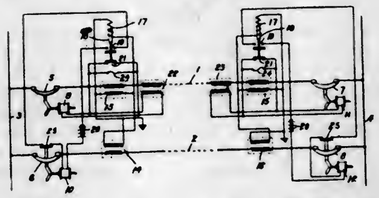
1,349,384. PLATEN. HERVEY H. MCINTIRE, South Bend, Ind. Filed Nov. 12, 1917. Serial No. 201,465. 4 Claims. (Cl. 95—73.)

1. A platen comprising a back plate, a frame supporting a cushion, yielding means interposed between the back plate and the cushion, and yielding means interposed between the cushion frame and the back plate, whereby the



cushion may yield within limits without imparting pressure to its supporting frame.

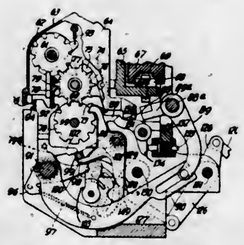
1,349,385. ELECTRICAL PROTECTIVE DEVICE. HERBERT PEARCE, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 2, 1918. Serial No. 232,153. 10 Claims. (Cl. 175—294.)



1. In a system of distribution, the combination with two parallel-connected feeder conductors and circuit interrupters therefor, of means for tripping the circuit interrupters of one conductor when a fault occurs upon either conductor and means for rendering the circuit interrupter of the other conductor responsive to overload conditions only after the other conductor is disconnected.

1,349,386. COMBINED TYPEWRITING AND COMPUTING MACHINE. HENRY L. PITMAN, Brooklyn, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed July 19, 1917. Serial No. 181,460. 47 Claims. (Cl. 235—59.)





7. The combination with a series of numeral keys of different values, of key levers on each of which is mounted a numeral key, a camming member individual to each key lever and mounted thereon having an effective throw corresponding to the value of its key, a ball individual to each camming member, so as to be operated thereby, and a rock shaft universal to all of said balls secured thereto to be driven an amount corresponding to the particular numeral key actuated at any time.

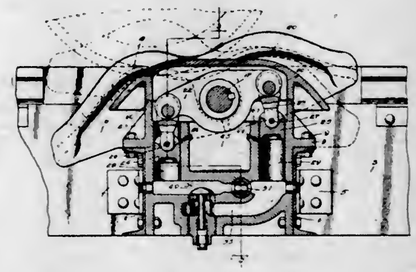
13. The combination with a driving rack bar, of a pinion driven by said rack bar, a parallel linkage for shifting said driving rack bar into and out of engagement with said pinion, an arm connected to said parallel linkage, a pin on said arm, a plate having a cam slot therein for shifting said pin, and means for swinging said plate.

15. The combination with computing wheels, of carry-over wheels for certain of said computing wheels, detents for said carry-over wheels, spring-actuated dogs for holding said detents in play, an aliner for forcing said detents into action, and springs for yieldingly forcing certain of said detents into engagement with their carry-over wheels.

17. In a combined typewriting and computing machine, the combination of a traveling carriage, an escapement mechanism therefor, numeral-key actuated locking means engaging with said carriage and preventing movement thereof during the down and return strokes of a numeral key, and means for preventing the actuation of said carriage by the actuation of any other key, during the actuation of said numeral key.

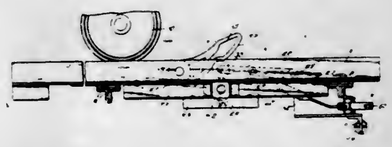
39. In a combined typewriting and computing machine, the combination of alphabet and numeral keys, a totalizer, a truck on which said totalizer is adjustably mounted, feeding mechanism for said truck, numeral-key-actuated locking means for said truck, and means rendered effective by said truck-locking means to lock said alphabet keys.

1,349,387. LIQUID CAR CONTROL. GEORGE N. SIMPSON, Chicago, Ill. Filed Apr. 2, 1919. Serial No. 287,039. 16 Claims. (Cl. 104—253.)



1. In a car control, the combination of a stop adapted to be displaced out of the path of a car wheel by contact of said car wheel and means for controlling the displacement of such stop.

1,349,388. CAR CONTROL. GEORGE N. SIMPSON and ARTHUR M. SIMPSON, Chicago, Ill. Filed Aug. 29, 1919. Serial No. 320,725. 4 Claims. (Cl. 104—252.)

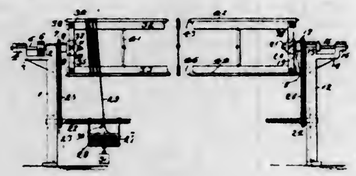


1. In a car control stop adapted to be moved to a position lying in the path of a car, and means for so moving said stop comprising a roller adapted to be forced against said stop.

1,349,389. MANUFACTURE OF TREATED STONE. CHARLES L. STEINROK, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 4, 1916. Serial No. 134,894. 1 Claim. (Cl. 91—70.)

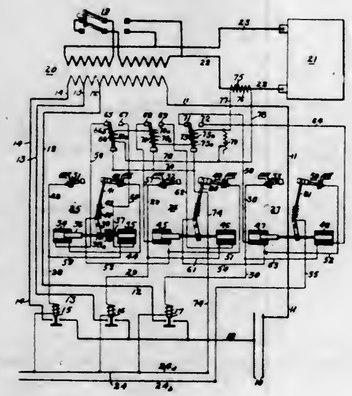
That way of treating natural stone which comprises immersing the stone in a heated solution of anilin dye to thereby impregnate the stone with coloring material, heating the anilin-impregnated stone until freed of the solvent of the dye, and then immersing the dried stone in molten paraffin until saturated therewith, the molten paraffin being maintained at a temperature of 170 to 212 degrees Fahrenheit.

1,349,390. PROCESS OF MAKING ELASTIC VEHICLE-TIRES. JAMES A. SWINEHART, Akron, Ohio. Filed Apr. 17, 1915. Serial No. 21,980. 6 Claims. (Cl. 154—14.)



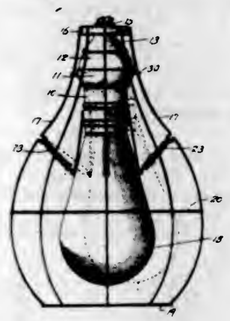
1. That improvement in methods for making a tire or tire-shoe which consists in forming a flattened tube-like fabric by means of a series of convolutions of cord wrapped helically about a pair of spaced longitudinally-extending parallel tubes containing reinforcing members, shifting one tube longitudinally to cause the convolutions to lie oblique thereto, replacing said reinforcing members by stiffening members and incorporating said fabric in a tire or tire shoe with the stiffened tubes positions in the beads of the tire or tire-shoe and with the convolutions extending across the tread portion thereof.

1,349,391. CONTROL SYSTEM FOR ELECTRICAL FURNACES. FRANK THORNTON, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 19, 1919. Serial No. 283,624. 15 Claims. (Cl. 204—64.)



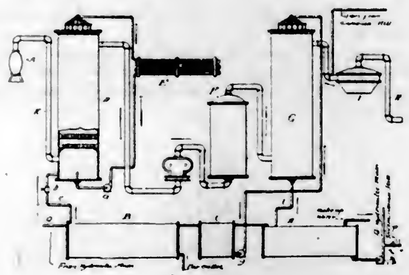
1. In an electrical heating system, the combination with a variable source of energy and a heating element having a negative-temperature-resistance coefficient the temperature of which is to be regulated, a supply circuit, a transformer having a plurality of spaced taps on the primary winding, and a plurality of electromagnetically operated switches for controlling the connections of the supply circuit to the primary winding of the transformer, of a plurality of plural-position switches for actuating said electromagnetically operated switches, and a temperature-actuated means for controlling said plural-position switches.

1,349,392. LAMP-GUARD. EDWIN D. TILLSON, Chicago, Ill., assignor to Associated Engineers Company, Chicago, Ill. Filed Feb. 18, 1918. Serial No. 217,872. 12 Claims. (Cl. 240—102.)



10. A lamp holding device comprising a frame, a movable socket within said frame and having frictional contact with the frame so that its movements in the frame are retarded thereby, and springs connecting the socket to the frame and tending to move the socket upwardly in the frame.

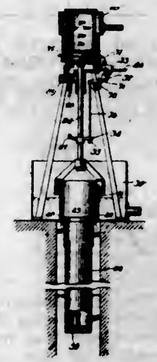
1,349,393. PROCESS OF AND APPARATUS FOR RECOVERING THE AMMONIA CONTENT OF COAL-GAS. BATES TORREY, Jr., Syracuse, N. Y., assignor to Semet-Solvay Company, Solvay, N. Y., a Corporation of New York. Filed May 3, 1918. Serial No. 232,257. 5 Claims. (Cl. 23—21.)



1. The process of recovering the ammonia content of coke oven gas, which consists in beating water in the hydraulic main by the initial heat of the gas as it comes from the ovens, washing and cooling the gas to remove tar and fixed ammonia therefrom, reheating the gas by washing it with said heater water and finally passing the gas through an acid bath to form sulfate of ammonia.

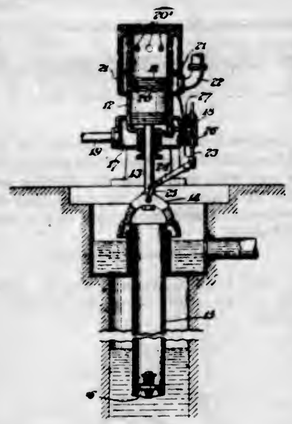
5. In apparatus for recovering the ammonia content of coal gas the combination with a hydraulic main and means for delivering gas from coke ovens thereto, of means for showering the gas in the main with water, whereby the water is heated by the gas, means for drawing off the gas from the main and washing and cooling the gas, means from drawing off from the main water heated by the gas therein and washing and heating the cooled gas therewith and means for returning the heated water to the main.

1,349,394. PUMP. EDWARD N. TRUMP, Syracuse, N. Y., and FRANK FRIEDRICHS, Detroit, Mich., assignors to Humphrey Gas Pump Company, a Corporation of New York. Filed May 3, 1916. Serial No. 95,062. 14 Claims. (Cl. 103—67.)



1. The method of pumping, which consists in reciprocating a tube provided with a suitable valve so as to cause liquid to flow therethrough, said reciprocation being caused by a motor, recovering and utilizing approximately the entire kinetic energy stored as a result of said actuation to coöperate in the functions of the motor.

1,349,395. PUMP. EDWARD N. TRUMP and FRANK FRIEDRICHS, Syracuse, N. Y., assignors to Humphrey Gas Pump Company, a Corporation of New York. Filed Aug. 31, 1918. Serial No. 252,152. 4 Claims. (Cl. 103—67.)



3. A pump comprising a reciprocating tube provided with a suitable valve, actuating means for causing the power stroke in said reciprocating movement of the tube and an auxiliary cylinder and piston operating trerein, in operative relationship with the actuating means and moving with the reciprocating tube for cushioning the return stroke of the reciprocating tube at the end thereof.

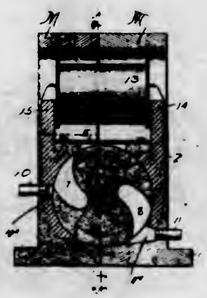
1,349,396. LABEL. RAY ALAN VAN CLIEF, Buffalo, N. Y. Filed Oct. 18, 1919. Serial No. 331,648. 1 Claim. (Cl. 40—134.)

As a new article of manufacture, a relatively thin, light, flexible, and luminous poison label for bottles and the like adapted to be secured to a poison holding container, said label comprising two sheets of celluloid, letters of luminous material located on the outer face of the



inner sheet, and said contacting surfaces of said sheets coalesced confining the material of the lettera and forming in effect a single flexible transparent label.

1,349,397. COMBINED GENERATOR AND PUMP. HARRY RANDOLPH VAN DEVENTER, Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J., a Corporation of New Jersey. Filed May 25, 1916. Serial No. 99,855. 3 Claims. (Cl. 253—176.)



1. A combined dynamo and pump including in composition, a supporting structure, a stationary coil, a rotor for directing flux through said stationary coil, said rotor being inclosed and separated from said coil, inlet and outlet pipes connected to said supporting structure, said rotor being constructed so as to operate as an impeller for taking the oil from the inlet pipe and forcing the same out through the outlet pipe.

1,349,398. FOLDING-DOOR HANGER EQUIPMENT. PAUL BALTHASAR WEIS, Aurora, Ill., assignor to Aurora Door Hanger & Specialty Company, Aurora, Ill., a Corporation of Illinois. Filed Feb. 10, 1919. Serial No. 276,082. 2 Claims. (Cl. 20—20.)



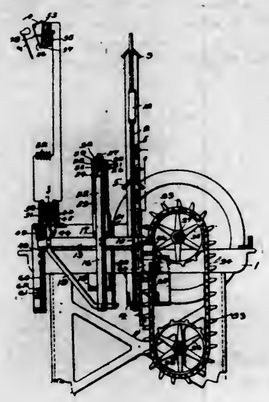
1. In an apparatus of the class described, the combination with a hanger secured to a door, of a horizontal track therefor pivotally supported at its inner end, an antifriction roller mounted on the outer end of said track, and a curved transverse track upon which the roller runs as the horizontal track swings outward when the door is folded and opened.

1,349,399. FOLDING-DOOR HANGER EQUIPMENT. PAUL BALTHASAR WEIS, Aurora, Ill., assignor to Aurora Door Hanger and Specialty Company, Aurora, Ill., a Corporation of Illinois. Filed Aug. 15, 1919. Serial No. 317,662. 6 Claims. (Cl. 20—20.)



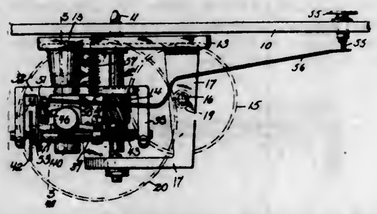
2. In an apparatus of the class described, the combination of a hanger secured to a folding door, of a horizontal track therefor pivotally supported at its inner end by the door frame and standing parallel to the closed door, and a transverse track upon which the outer end of the horizontal track rolls outward without any increased resistance as the door is folded and opened.

1,349,400. BELL-RINGING MECHANISM. HERMANN A. WENDE, Buffalo, N. Y. Filed June 22, 1914, Serial No. 846,491. Renewed Jan. 5, 1920. Serial No. 349,637. 27 Claims. (Cl. 177—288.)



1. A bell ringing mechanism comprising an operating member connected with the bell, an endless power operated shifting member having a plurality of tappets, and means for coupling one or another of said tappets directly with said operating member.

1,349,401. PHONOGRAPH-MOTOR. THOMAS E. WHITE and GEORGE MCINTOSH, Newark, N. J. Filed Mar. 25, 1919. Serial No. 284,923. 6 Claims. (Cl. 74—45.)



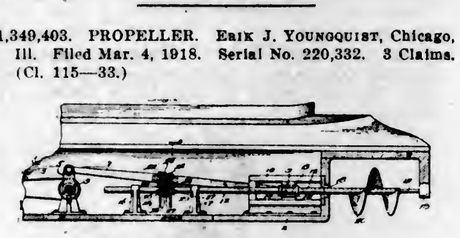
4. A phonograph motor comprising a driving mechanism, a governor, a bracket in which the governor is supported, a worm on the governor, a worm gear in the driving mechanism, a raised socket, a stud on the bracket and fitting in the socket so that the bearing can be swung to adjust the worm relative to the gear, means for fastening the stud against swinging, ears on the bracket, a disk on the governor, a stem in the ears, one of said ears and the stem being threaded, a U-shaped clip with projecting perforated ears, a screw passing through the ears and radially secured in the stem, and means for turning the stem.

1,349,402. FOLDING ARTICLE-HOLDER. ALBERT WIGGERS, Jersey City, N. J. Filed Feb. 5, 1919. Serial No. 275,084. 6 Claims. (Cl. 211—24.)



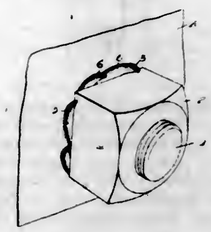
1. A holder of the class described, comprising a front member provided with an opening to receive the article to be held, a bracket extending rearwardly from said member at a point above the upper edge of said opening, and a leg pivoted to the rear portion of said bracket and formed with a portion extending above the pivot and shorter than the least distance of said pivot from said front member, whereby the upper end of the leg will be kept out of contact with the front member in all positions, but will be allowed to come into engagement with said bracket at a point between the front member and said pivot.

1,349,403. PROPELLER. ERIK J. YOUNGQUIST, Chicago, Ill. Filed Mar. 4, 1918. Serial No. 220,332. 3 Claims. (Cl. 115—33.)



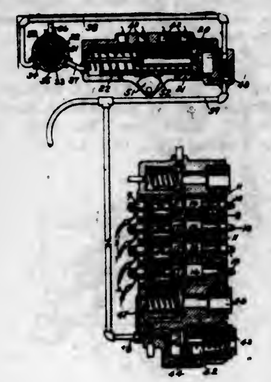
3. The combination with a propeller, of a shaft to which said propeller is secured, a crank and pitman connection for and with said shaft for moving same to and fro along its axis, and means for converting the reciprocating movements of said connection into a rotary movement in said shaft.

1,349,404. NUT-LOCK. ARCHIE BLAKE, New Orleans, La. Filed Oct. 10, 1919. Serial No. 329,824. 2 Claims. (Cl. 151—52.)



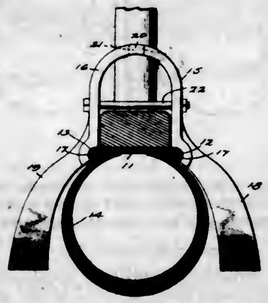
1. A concavo-convex nut washer having a bolt-hole and peripherally arranged fingers, said fingers extending tangentially to a circle concentric with the bolt hole, the ends of the fingers being curved laterally toward the concave face of the washer.

1,349,405. ELECTRIC TRAIN-WIRE COUPLING. THOMAS R. BROWN, Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 6, 1917. Serial No. 152,604. 8 Claims. (Cl. 173—332.)



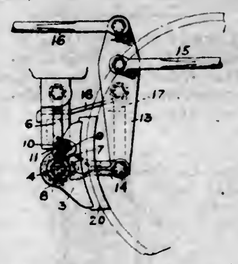
5. In an electric coupling for cars, the combination of a plurality of contact terminals connected to the respective car line circuits and adapted to be electrically connected with corresponding contacts of a counterpart coupler when the cars are coupled together, a switch between said contact terminals and the circuits of each car, said switch having one operative position for directly connecting said circuits in parallel, and another operative position for cross-connecting said circuits, means for normally holding said switch in one of said operative positions, a piston for said switch, and a valve for supplying fluid to said piston to shift said switch to the opposite operative position.

1,349,406. TRACTION-LUG FOR VEHICLES. THOMAS J. BRYSON, New Orleans, La. Filed Aug. 14, 1919. Serial No. 317,489. 4 Claims. (Cl. 21—215.)



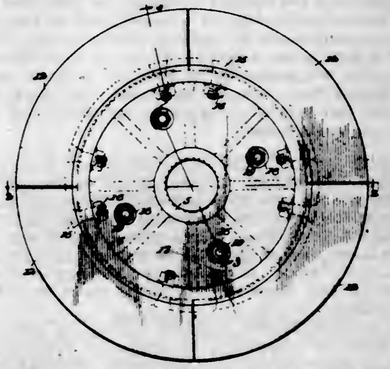
1. In a traction lug for drive wheels having an outstanding rim, a pair of plates adapted to be arranged upon opposite sides of the wheel of said plates being provided with a recess adapted to receive said rim, traction lugs secured to each of said plates, and means for securing said plates upon said rim.

1,349,407. BRAKE-HEAD ADJUSTER. THOMAS L. BURTON, St. Louis, Mo., assignor to The American Brake Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 27, 1917. Serial No. 164,846. 4 Claims. (Cl. 188—215.)



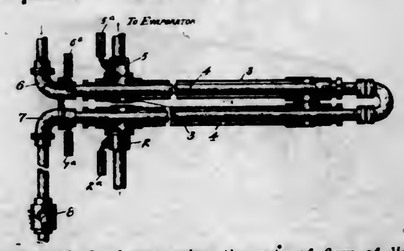
1. In a brake shoe adjuster, the combination of a brake-beam, a brake head pivotally mounted on said beam, an arm rigidly attached to turn with said beam, and a frictional connection between said arm and the brake head.

1,349,408. DREDGE-TUMBLER. PHILLIP J. CAHILL, High Bridge, N. J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Oct. 1, 1919. Serial No. 327,822. 1 Claim. (Cl. 64—17.)



A tumbler comprising a drum having a central web and endwise ranging webs and having marginal rims or seats, a spool consisting of segments confined by said rims and bolted to the drum, and cheek plates closing the ends of the drum.

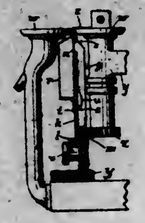
1,349,409. METHOD AND APPARATUS FOR MEASURING THE CAPACITY OF REFRIGERATING PLANTS. GILBERT H. CRAWFORD, Brooklyn, N. Y., assignor to DE LA VERGNE MACHINE COMPANY, New York, N. Y., a Corporation of New York. Filed Sept. 7, 1918. Serial No. 253,060. 8 Claims. (Cl. 73—167.)



1. A method of measuring the rate of flow of liquid refrigerants which consists in bringing into heat-ex-

changing relation with the refrigerant a medium of known amount and thermal characteristics, ascertaining the temperature change of such medium and comparing such change with the resulting temperature change of the refrigerant.

1,349,410. HOSIERY-TIPPING PLATE. FRANK CURTIN, Gloversville, N. Y., assignor to Curtin-Hebert Company, Inc., Gloversville, N. Y., a Corporation of New York. Filed Nov. 19, 1919. Serial No. 339,038. 2 Claims. (Cl. 112—19.)

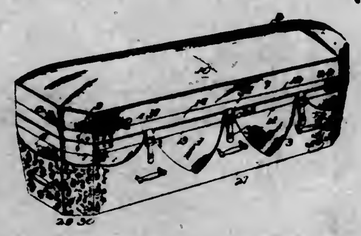


1. The combination with a reciprocable needle, and a traveling plate affording a straight edge movable into operative relation with the needle and over which a fabric may be drawn, of two rows of pins projecting laterally from opposite sides of said plate beneath said straight edge and adapted to engage the fabric and hold it properly positioned and tensioned, one of said rows of pins adapted also to engage a reinforcing piece to afford a definite free length of reinforcing piece extending above the last named row of pins, and a clamp adapted to confine the previously positioned reinforcing piece against that part of the fabric on one side of and adjacent the straight edge.

1,349,411. PROCESS FOR PREVENTING DANGER OF EXPLOSION IN THE PREPARATION AND THE HANDLING OF DANGEROUS EXPLOSIVE SUBSTANCES. GEORGES DARRAS, Chêne, near Geneva, and CHARLES GOUDET, Geneva, Switzerland, assignors to Société D'Etudes Chimiques pour L'Industrie, Geneva, Switzerland. Filed Sept. 14, 1918. Serial No. 254,140. 5 Claims. (Cl. 52—2.)

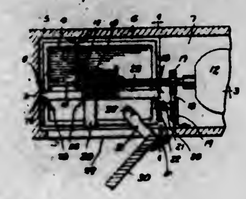
1. The hereinbefore described process for preventing the danger of explosion in the preparation and manipulation of dangerous explosive substances, consisting in the formation in a suitable material of an explosive substance, by first treating the material with a non-explosive substance and then changing the non-explosive substance by reaction with another substance to an explosive substance, the particles of which are separated from each other by the particles of the said material.

1,349,412. GLASS CASKET AND CARRIER THEREFOR. JAMES W. DE CAMP, Blackwell, Okla. Filed June 17, 1918. Serial No. 240,453. 12 Claims. (Cl. 27—8.)



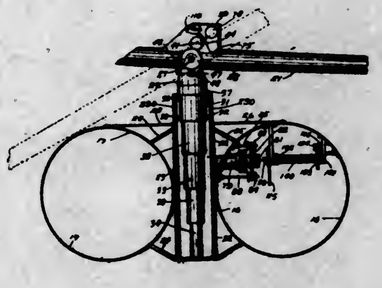
1. In a casket, a glass body and a glass lid each provided at their abutting edges with a circumscribing seating groove defining a continuous stop shoulder, bands seated in said grooves and bearing against the stop shoulders, said body and lid being provided with transverse sockets formed in the exterior walls of the casket at said seating grooves, bushings fitting within the sockets and having their outer faces disposed substantially flush with the walls of the seating grooves, and securing means carried by the bands and projecting into said bushings, said bands bearing against and forming closures for the bushings.

1,349,413. MAIL-BOX AND OTHER DEVICE. DANIEL A. DORAN, Yonkers, N. Y., assignor to Mary I. Doran, Yonkers, N. Y. Filed Sept. 29, 1919. Serial No. 327,169. 10 Claims. (Cl. 187—4.)



1. In a device of the class described, a shaft at the top portion of which is a door opening and at the bottom portion of which is an elongated aperture, a door adapted to close said door opening, a mail-box movable vertically in said shaft, said mail-box being normally in its lowest position, and means whereby the opening of said door will automatically cause said mail box to be raised in said shaft.

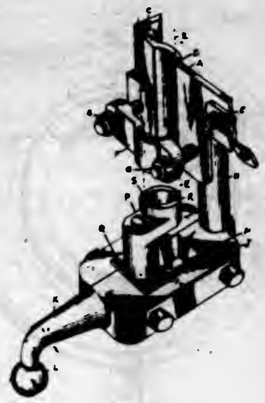
1,349,414. SUBMARINE GUN. KENNEDY DOUGAN, Minneapolis, Minn. Filed June 19, 1915. Serial No. 34,969. 16 Claims. (Cl. 89—5.)



4. In combination with a gun and means for controlling the same, a hermetically sealed gunner's casing mounted directly upon the gun and movable therewith.

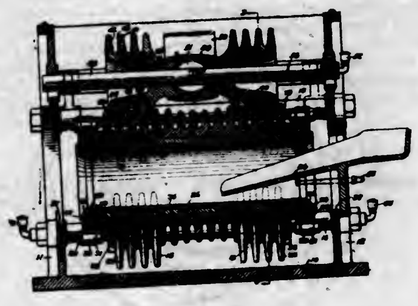
1,349,415. SHOCK-ABSORBING STEERING MECHANISM. CHARLES DYER, Detroit, Mich. Filed Oct. 20, 1919. Serial No. 331,898. 1 Claim. (Cl. 74—79.)

In a shock absorbing steering mechanism, the combination with a steering post, of a clamping plate or member provided with means for securing it to the frame of a machine and having a fixed depending column forming a pivot, an adjustable clamping plate, adjusting means connecting the clamping plates for holding the same in frictional engagement with the steering post to produce a braking action thereon, a longitudinally slotted member pivotally supported at one end by the said fixed column adapted to be connected at the other end with the



steering wheels of the machine, and a crank element mounted on the steering post and operating in the slot of the pivoted member.

1,349,416. CENTRIFUGAL CASTING METHOD AND APPARATUS. HAROLD GRIFFITH EYNON, Philadelphia, Pa. Filed Sept. 16, 1918. Serial No. 254,329. 10 Claims. (Cl. 22—65.)

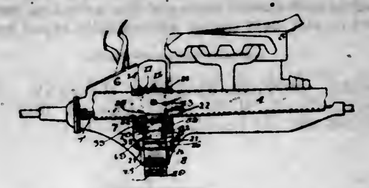


1. In a centrifugal casting machine, a casting drum and a heat conducting removable bushing therefor determining by the length and diameter of the bushing selected the length and diameter of the casting to be made.

1,349,417. PROCESS OF OXIDIZING BARIUM MONOXID TO DIOXID. HERMAN FLECK, Golden, Colo., assignor to The Peroxide Specialty Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 5, 1917, Serial No. 200,285. Renewed Oct. 29, 1919. Serial No. 334,324. 8 Claims. (Cl. 23—13.)

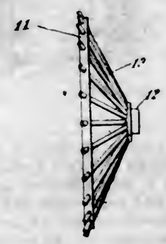
1. The method of oxidising barium monoxid to barium dioxid which comprises subjecting the barium monoxid to attrition, and bringing an oxidising gas into contact therewith at an oxidising temperature during the attrition.

1,349,418. MOTOR-SUPPORT. GEORGE F. FLYNN, Milwaukee, Wis. Filed Aug. 5, 1919. Serial No. 315,438. 6 Claims. (Cl. 180—64.)



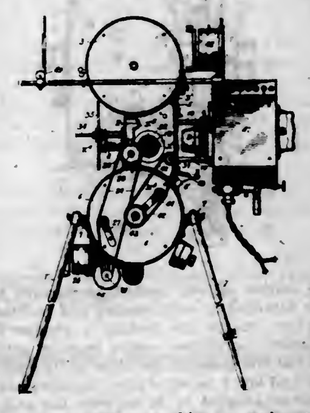
1. A crank case support for engines comprising a crank case receiving sling, chassis frame engaging members carried by said sling, and means carried by said members and engageable with the crank case to prevent the movement thereof away from the sling.

1,349,419. SHIELD FOR CULTIVATORS. STEPHEN H. GARST, Moline, Ill. Filed May 23, 1919. Serial No. 299,178. 1 Claim. (Cl. 97—13.)



A shield for cultivators consisting of a hub, a rim having projections for engaging the soil, the said rim being offset from the hub, and bars uniting the hub and the rim, said bars being on angles due to the rim being offset from the hub, and providing a series of open spaces between the rim and the hub, substantially as specified.

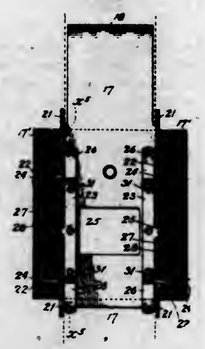
1,349,420. MOTION-PICTURE MACHINE. JOSEPH GRANZ, Duluth, Minn. Filed Mar. 28, 1919. Serial No. 285,758. 6 Claims. (Cl. 88—17.)



6. In a motion picture machine, a main casing of a rectangular box shape open at top and bottom, the side walls of the casing having saddle extensions at their upper and lower ends, upper and lower film magazines having circular walls fitting the aforesaid saddle exten-

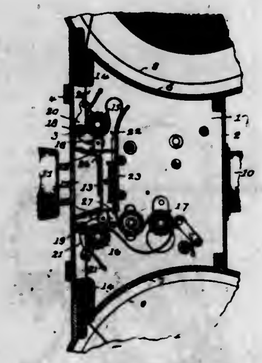
sions of the side walls of the casing and forming closures for the upper and lower open ends of said casing bracket lugs carried on the lower film magazine, tripod legs attached to said bracket lugs, and film actuating means arranged in said main casing, substantially as set forth.

1,349,421. MOTION-PICTURE MACHINE. JOSEPH GRANZ, Duluth, Minn. Filed Mar. 28, 1919. Serial No. 285,759. 14 Claims. (Cl. 88—17.)



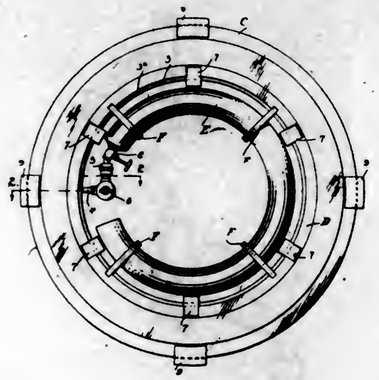
1. In a motion picture machine, a main frame or casing, a film guide plate arranged vertically in said frame and provided with a light aperture, means for feeding a picture film along said guide plate and counterpart spring impelled gate members hinged at the vertical sides of said guide plate, substantially as set forth.

1,349,422. MOTION-PICTURE MACHINE. JOSEPH GRANZ, Duluth, Minn. Filed Apr. 25, 1919. Serial No. 292,573. 9 Claims. (Cl. 88—17.)



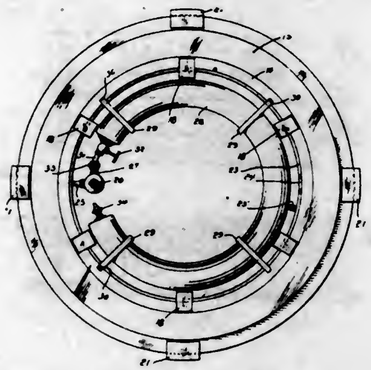
1. In a motion picture machine, a machine housing, a film guide arranged in said housing and provided with a light aperture, means for feeding a picture film along said film guide, counterpart spring impelled gate members hinged to the film guide at the sides of its light aperture, and upper and lower movable plate members having vertical extensions adapted to fit between the gate members above and below the light aperture aforesaid, the main portions of said members having an approximately horizontal arrangement to provide a local sub-chamber to the rear of the light aperture aforesaid, substantially as set forth.

1,349,423. METHOD OF MAKING PNEUMATIC-TIRE CASINGS. ERNEST HOPKINSON, New York, N. Y. Filed June 10, 1919. Serial No. 303,136. 8 Claims. (Cl. 18—53.)



1. A method of making pneumatic tire casings which comprises subjecting the interior thereof to the expanding action of plastic material under pressure, compacting the casing by exteriorly and positively limiting said expansion, and vulcanizing the casing while the same is supported interiorly by the plastic material.

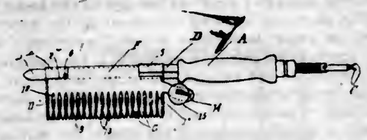
1,349,424. APPARATUS FOR MAKING PNEUMATIC-TIRE CASINGS. ERNEST HOPKINSON, New York, N. Y. Filed Oct. 25, 1919. Serial No. 333,426. 4 Claims. (Cl. 18—38.)



1. In an apparatus for forming and vulcanizing tire casings, means for closing a tire casing adjacent its rim-engaging portions, means whereby the casing may be filled with plastic under pressure, and an individual source of plastic under predetermined pressure disposed adjacent to and adapted to be connected with the casing during vulcanization.

1,349,425. COMB FOR DRYING AND STRAIGHTENING HAIR. OBADIAH D. HOWARD and HARRY W. KEEP, St. Paul, Minn. Filed Feb. 28, 1920. Serial No. 362,166. 4 Claims. (Cl. 132—19.)

4. In a comb the combination with a rod-like heating unit, two comb members pivotally mounted on said rod-like unit so as to swing like the covers of a book the teeth of said members intermeshing when the latter are folded



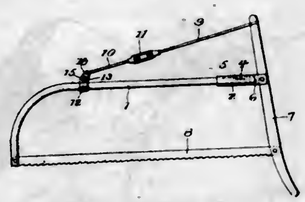
against each other, and means for yieldingly holding said members slightly separated.

1,349,426. SCAFFOLD. JOHN J. KITSTEINER, Jr., Cleveland, Ohio. Filed Nov. 3, 1917. Serial No. 200,021. 8 Claims. (Cl. 304—30.)



1. In a scaffold of the character set forth, the combination of an upright whereon a bracket is slidably mounted, a member secured to the upper end of the upright and having formed integral with it a pulley block and having a flat face that is provided with a channel adapted to receive a portion of a supporting member, the channel and such portion being so shaped as to prevent turning with respect to each other, and a plate arranged to close the open side of the channel, the aforesaid bracket being adapted to be slid along the upright by a flexible member having connections with the bracket and passing over the pulley of the aforesaid pulley block.

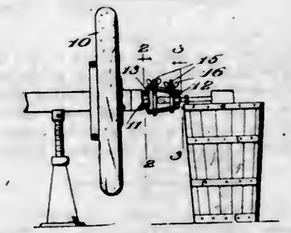
1,349,427. ADJUSTABLE HANDSAW. GALEN MCKENNEY, Bangor, Me. Filed Nov. 3, 1919. Serial No. 335,297. 5 Claims. (Cl. 145—84.)



3. A hand saw comprising a frame including an extensible portion, a handle pivoted thereto, a blade connected to said frame and handle, a member slidable along said frame, and an adjustable connection between said slidable member and said handle, the tightening of which clamps said member on said frame, and further means for locking said member irrespective of said tightening.

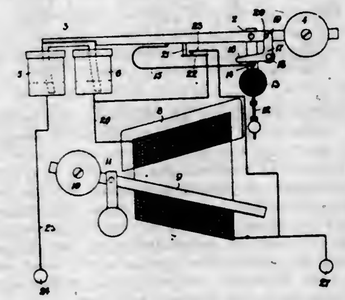
4. A hand saw comprising a frame including an extensible portion, a handle pivoted to said frame, a blade connected to said frame and handle, a slidable member engaging said frame, a lever pivoted intermediate its ends to said member, the inner end of said lever having a backed-off end engaging said frame, and an adjustable connection between said lever and said handle, and means for locking said member to said frame.

1,349,428. POWER-TRANSMISSION DEVICE FOR AUTOMOBILES. HENRY H. MARSHALL, Jr., Garden City, N. Y. Filed Nov. 5, 1918. Serial No. 261,280. 8 Claims. (Cl. 64—89.)



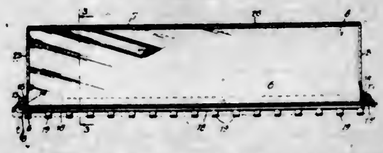
1. A coupling for the purpose specified comprising a pair of spaced members each having clamping jaws at its ends directed toward and in coöperative relation to the jaws of the other member, and separate means connecting the corresponding ends of the members for moving each pair of corresponding jaws independently of the other pair.

1,349,429. ELECTRIC SWITCH. ETHELBERT THOMAS RUTHVEN MURRAY, Hertfordshire, and GEORGE FREDERICK SHOTTER, London, England. Filed May 14, 1919. Serial No. 296,988. 11 Claims. (Cl. 200—90.)



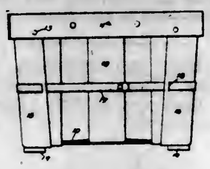
1. In an electric switch the combination of a movable switch arm, contact members operated thereby, resilient means for imparting movement to said arm and means for preventing the operation of said means unless said arm is in a predetermined position.

1,349,430. VEHICLE-WINDSHIELD. JOHN L. NILSON and JOHN PRINCE, Chicago, Ill. Filed Feb. 26, 1919. Serial No. 279,342. 4 Claims. (Cl. 296—95.)



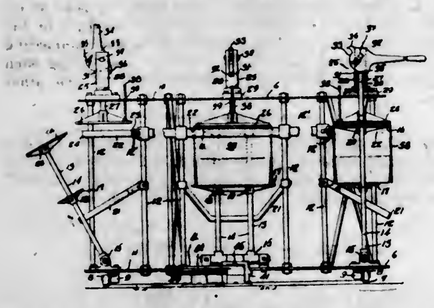
1. The combination with a wind shield, of a hollow roller and frame sides adapted to be folded within said roller, an awning or curtain adapted to be rolled upon said roller, and means for attaching said awning or curtain to said wind shield.

1,349,431. BASKET. GEORGE L. O'DELL, Belding, Mich. Filed Jan. 30, 1919. Serial No. 273,998. 2 Claims. (Cl. 217—122.)



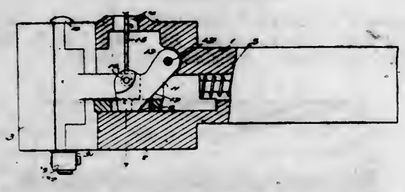
1. A basket having a body of splints or the like, metal corner pieces inturned and overlapping at the bottom beneath the bottom of the body, and retaining cleats on the bottom at the under side extending along opposite edges of the basket and overlying and abutting against the inturned overlapping portions of the corner pieces.

1,349,432. BOX-END-SEALING MACHINE. WILLIAM PEET, Kansas City, Mo. Filed June 18, 1919. Serial No. 305,082. 5 Claims. (Cl. 93—36.)



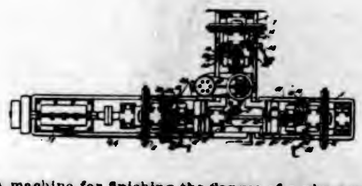
1. A machine for sealing the flaps of boxes comprising a frame, members for supporting boxes to be sealed carried upon the frame, means for moving said frame to present the supporting members one at a time to a point at which an operator is stationed, pressure devices for applying pressure to and sealing the flaps, said supporting members being mounted to swing outwardly away from the frame, in receiving boxes and upon the removal of boxes therefrom, and means to engage the boxes and releasingly hold them and the supporting members in upright position during the sealing operation.

1,349,433. AUTOMATIC COUPLING. WILLIAM W. PHILLIPS, Richmond, Va. Filed Dec. 23, 1918. Serial No. 268,113. 1 Claim. (Cl. 213—10.)



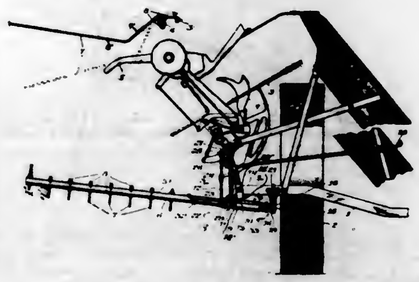
A coupling of the type indicated including a draw-bar having a head formed thereon, the said head provided with a bore communicating with a corresponding bore in the draw bar and further provided with intercommunicating recesses, a knuckle pivoted in the head and provided with a tail portion accommodated in one of the recesses in the head, the tail portion formed with a curved face, a lug on the tail portion, an actuating member in one of the recesses in the head, having a central opening provided with curved edges and receiving the lug on the knuckle for imparting an initial opening movement to the knuckle, a head on the actuating member disposed rearwardly of the central opening and having a curved face for engaging the curved portion of the tail portion of the knuckle to complete the opening movement of the knuckle, a shank on the actuating member received in the bore in the head and draw-bar, a spring embracing the shank for moving the actuating member to place the knuckle in an open position, a catch in one of the recesses in the head received in the central opening in the actuating member and engaging the tail portion of the knuckle to hold the same in a closed position, one of the faces of the catch being inclined and adapted for engagement with the curved face of the head on the actuating member whereby to automatically move the catch to an open position with respect to the knuckle when a coactive coupling is thrown to an open position, and means for manually moving the catch to open the knuckle for the purpose set forth.

1,349,434. PIPE-FLANGE-TURNING MACHINE. CLARENCE K. PRINCE, Westfield, Mass. Filed May 7, 1919. Serial No. 295,412. 17 Claims. (Cl. 82—2.)



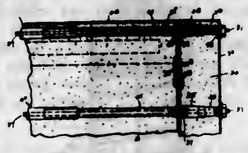
1. A machine for finishing the flanges of a pipe-coupling, and comprising, in combination, a base, a shaft therein, a movable carriage, a revolving cutter on the carriage, means for moving or feeding the cutter across the face of a flange being finished and simultaneously rotating the same, means controlled by the cutter for automatically stopping the feeding movement of the cutter at the termination of the cut, said means serving to permit the continued rotation of the feeding means during the return of the cutter to its initial position.

1,349,435. BUNDLE-CARRIER. CLEMMA R. RANEY, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Jan. 31, 1916. Serial No. 75,361. 27 Claims. (Cl. 56—480.)



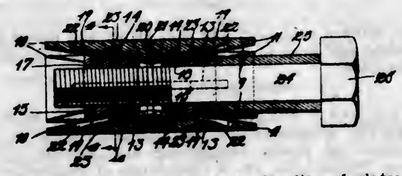
1. In combination, a frame, a laterally extending bundle carrier support, bundle carrying means mounted on said support, said support being pivoted to said frame and movable downwardly from its normal sheaf receiving position in a vertical plane at right angles to the line of draft.

1,349,436. BAKING-OVEN. ALLEN R. ROSS, Seattle, Wash. Filed Jan. 13, 1919. Serial No. 270,959. 2 Claims. (Cl. 107—55.)



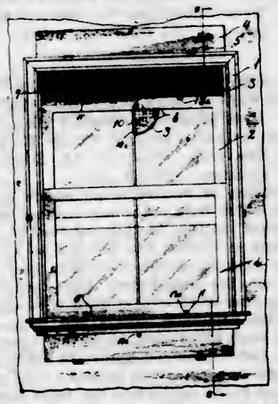
1. An oven, whose walls are heat insulated, embodying one or more demountable walls, telescoping tie-rod protector tubes in said oven walls, and tie rods passing through said protector tubes whereby said demountable wall is held tightly against said oven walls.

1,349,437. EXPANSION-BOLT. EDWIN C. ROYER, Philadelphia, Pa., assignor of one-half to Bernard J. Boyle, Philadelphia, Pa. Filed Apr. 24, 1919. Serial No. 292,456. 1 Claim. (Cl. 85—2.8.)



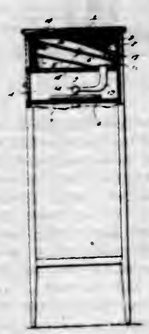
An expansion bolt including a plurality of plates angular in cross section arranged annularly around the axis thereof and having inwardly extending tapered edges at the sides intersecting their innermost surfaces, said innermost surfaces extending at slants in opposite directions from its opposite ends, said tapered edges of adjacent plates being arranged substantially parallel with each other; an elastic band for holding said plates together; expansion blocks interposed between said plates; and means for moving said expansion blocks whereby the plates are separated and moved outwardly from the axis against the action of said band, said plates having internal grooves extending along their lengths between said tapered edges, said blocks having lugs adapted to move within said grooves, said grooves following the slants of said innermost surfaces; substantially as described.

1,349,438. WINDOW-SCREEN. STANISLAW SAMPLAWSKI, Bloomfield, N. J. Filed Jan. 13, 1920. Serial No. 351,228. 2 Claims. (Cl. 156—39.)



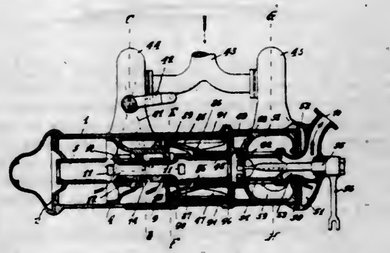
2. A device of the class described comprising a window sash, a groove in the upper part thereof extending through the length of said sash, vertical recesses in said sash extending from said groove into said sash, horizontal recesses in the side of said sash communicating with said vertical recesses, T shaped members slidable in said horizontal recesses, the stem of said T extending outward from said recess to provide a handle portion, resilient means in said horizontal recess attached to said T member, a screen adapted to roll upon a drum concealed in the window frame, means on the free end of said screen adapted to set in said groove, and additional means thereon adapted to enter said vertical recesses and to be engaged by the said T members.

1,349,439. PHONOGRAPH-CABINET. EDWARD J. SCHAEFER, Hespeler, Ontario, Canada. Filed Dec. 2, 1916. Serial No. 134,719. 2 Claims. (Cl. 274—2.)



1. A photograph cabinet having an open front, a plurality of walls therein and spaced from each other to provide multiple chambers, the intermediate chambers being in communication with each other and one of the same opening through the open front of said cabinet, one of the other chambers also opening through the open front of the cabinet, while the remaining chamber is closed.

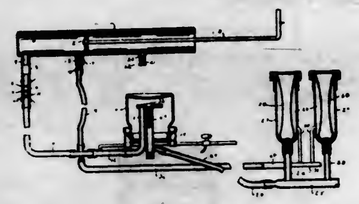
1,349,440. REGULATING DEVICE FOR WATERING-CARTS. GUSTAV SCHLATTER, Steinach, and GUSTAV SEGIN, Arbon, Switzerland, assignors to Firma Adolph Saurer, Arbon, Switzerland, a Firm organized under the laws of Switzerland. Original application filed Apr. 13, 1917, Serial No. 161,875. Divided and this application filed Mar. 27, 1919. Serial No. 285,668. 2 Claims. (Cl. 299—108.)



1. In a regulating device for watering carts, the combination with a regulating valve mounted to move lengthwise and to turn in the spraying head and operated by the water pressure, longitudinal movement of the said valve determining the length of the spray and its rotation determining the width of the spray, of a hand operated control device effecting the longitudinal movement, and of another hand operated device effecting the rotation

of the regulating valve, a second valve rotated by the water pressure being arranged in the casing of the regulating valve coaxially with the same, and connected to it so as to allow the regulating valve to move longitudinally independently of the rotary valve, but to participate in its rotation.

1,349,441. MILKING-MACHINE FOR COWS. WARREN A. SHIPPERT, Chicago, Ill. Filed Apr. 19, 1918. Serial No. 229,509. 1 Claim. (Cl. 31—98.)



In a device of the class described, a suction and pressure pump; a milk receiving and discharge chamber; a system of pipes connecting said pump and chamber; an air seal in said pipe system permitting movement of air from said pump to said chamber, under pressure, but preventing movement thereof in the opposite direction; an air seal in said pipe system, permitting movement of air from said chamber to said pump, under suction, and preventing the movement thereof in an opposite direction; a plurality of teat-cups each formed of an outer non-yielding shell and an inner contractible lining spaced apart therefrom and providing a central opening for the passage of milk; a conduit connecting said inner passages with said milk-chamber and provided with a valve at its discharge end; and means of connection between said system of pipes and said teat-cups to provide the same with alternating suction and pressure movements between said shells and inner lining, coincidently with the suction and pressure action of said pump.

1,349,442. SHEET-METAL END STRUCTURE FOR RAILWAY-CARS. VINTON E. SISSON, Chicago, Ill., assignor to Walter P. Murphy, Chicago, Ill. Original application filed Jan. 22, 1915, Serial No. 3,761. Patent No. 1,271,234, dated July 2, 1918. Divided and this application filed June 27, 1918. Serial No. 242,232. 10 Claims. (Cl. 105—410.)



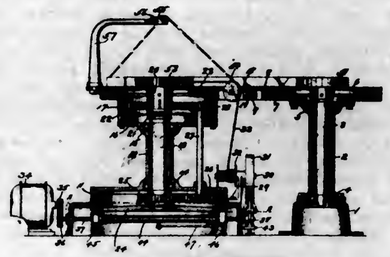
1. An end structure for railway cars comprising a sheet metal panel formed with parallel corrugations each of which comprises a central portion of appreciable length having maximum cross-sectional area, which is uniform throughout said portion, portions at the sides of the central portion having cross-sectional areas which diminish toward the edges of the plate, and terminal portions which die away into the plane of the marginal portions of the panel.

1,349,443. REDUCING-VALVE. REUBEN C. STOKES and JOSHUA C. CONRAD, Cement, Okla. Filed Feb. 2, 1918. Serial No. 215,061. 2 Claims. (Cl. 50—8.)

1. A device of the class described comprising a valve casing having a diaphragm provided with a port, high and low pressure valves adapted to control the passageway through said port when moved in opposite directions respectively, means for adjusting said valves relative to each other, a cylinder in open communication with the low pressure side of said casing, a piston in said cylinder and connected to said valves, a cylinder head, a spring interposed between said head and said piston and means for adjusting said head to regulate said spring, substantially as described.



1,349,444. APPARATUS FOR TREATING METAL STRIPS. AUGUST SUNDH, Hastings-upon-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 26, 1919. Serial No. 347,442. 9 Claims. (Cl 153—64.)



1. In a metal-coiling apparatus of the class described, the combination of a coil-receiving member, a separator for separating the wraps of a metal coil coiled upon said receiving member, and means for removing said separator to leave the metal coiled upon the receiving member with the wraps thereof spaced from each other.

1,349,445. PROCESS OF RECOVERING CONSTITUENTS OF VALUE FROM NATURAL ALKALINE DEPOSITS. CARL SUNDSTROM, Detroit, Mich., assignor to The Solvay Process Company, Solvay, N. Y., a Corporation of New York. Filed Oct. 16, 1918. Serial No. 258,459. 3 Claims. (Cl. 23—13.)

1. The process of recovering potassium chlorid from solutions in which it is contained together with sodium chlorid, sodium sulfate, sodium carbonate and borax, which consists in chilling the solution so as to precipitate sodium sulfate, sodium carbonate and borax and separating out the precipitated salts, evaporating the cleared brine first by solar heat until it is approximately saturated with potassium chlorid and then, after separation from precipitated salts, by artificial heat at a high temperature and without admixture of other salts, until it is saturated with potassium chlorid at the temperature employed, and finally separating the brine from the salts precipitated during the high temperature evaporation and cooling it to crystallize out potassium chlorid.

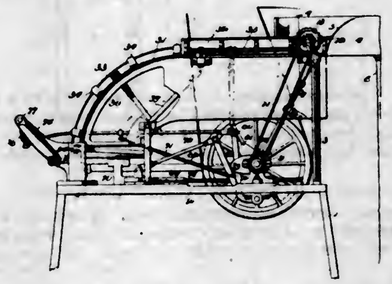
1,349,446. PROCESS OF RECOVERING BORAX FROM SOLUTIONS CONTAINING SODIUM BORATES. CARL SUNDSTROM, Syracuse, N. Y., assignor to The Solvay Process Company, Solvay, N. Y., a Corporation of New York. Filed Sept. 24, 1919. Serial No. 325,910. 6 Claims. (Cl. 23—22.)

1. The process of removing sodium metaborate from solution which consists in forming carbon dioxid within the solution so as to convert the metaborate into sodium tetraborate and precipitating the tetraborate.

1,349,447. PROCESS OF OBTAINING SODIUM BICARBONATE FROM ALKALINE WATERS. CARL SUNDSTROM, Syracuse, N. Y., assignor to The Solvay Process Company, Solvay, N. Y., a Corporation of New York. Original application filed Oct. 16, 1918, Serial No. 258,459. Divided and this application filed Apr. 3, 1920. Serial No. 370,966. 2 Claims. (Cl. 23—22.)

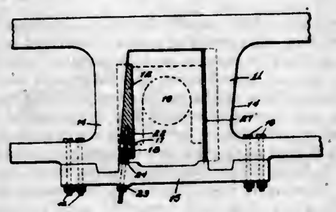
1. The process of recovering sodium bicarbonate from alkaline brines containing sodium carbonate, which consists in chilling the brine to such temperature below zero centigrade as to cause the precipitation of sodium carbonate and separating the precipitated salts from the liquor; warming the precipitated salts so as to melt the sodium carbonate; separating out the unmelted portion of the salts and carbonating the cleared liquor to precipitate sodium bicarbonate and separating out the sodium bicarbonate.

1,349,448. BOBBIN-STRIPPER. GEORGE F. BAHAN and AMASA ST. ONGE, Charlotte, N. C. Filed Oct. 21, 1918. Serial No. 259,004. 14 Claims. (Cl. 19—15.)



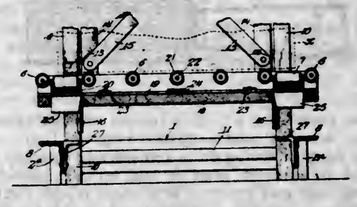
9. In a bobbin stripper, in combination, a trough, a conveyer for moving bobbins along said trough, a member adapted to be projected across the bobbin path to break entangled yarns, cleaning jaws to which bobbins are fed from said trough, and means for causing said jaws to strip the yarn from said bobbins.

1,349,449. BEARING-BOX. HARRY C. FOSTER, Lehighton, Pa., assignor of one-half to Chester G. Setzer, Lehighton, Pa. Filed May 3, 1919. Serial No. 294,426. 5 Claims. (Cl. 64—55.)



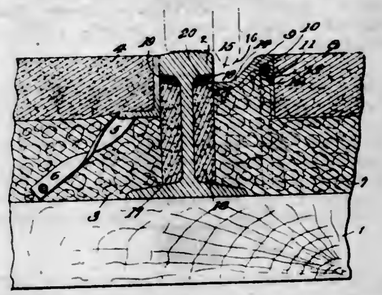
1. The combination with a movable bearing box and its supporting frame, of a wedge for taking up lost motion, a follower movable independently of the wedge, means for adjusting the follower in the direction of movement of the wedge, and an expansion cushioning member interposed between the follower and the wedge.

1,349,450. LIFTING DEVICE. GEORGE M. FRENCH and WILLIAM B. PAVEY, Chicago, Ill., assignors to Economy Engineering Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 3, 1918. Serial No. 248,098. 8 Claims. (Cl. 187—1.)



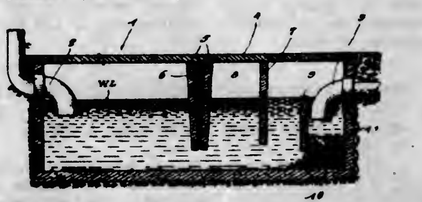
7. A vertically movable platform having, in combination, a base and two sets of rollers mounted on the base, the rollers of one set being mounted for vertical movement relative to the rollers of the other set, and means for automatically moving the first mentioned rollers in the movement of the platform whereby to carry the uppermost surfaces thereof above or below the uppermost surfaces of the second mentioned rollers, said movable rollers being adapted when in their uppermost position to support an article for movement in a direction transverse to the direction of movement of the article upon the other rollers.

1,349,451. STREET-RAILWAY CONSTRUCTION. WILLIAM S. GODWIN, Cleveland, Ohio. Filed Feb. 14, 1919. Serial No. 277,064. 11 Claims. (Cl. 238—9.)



2. A between rail paving guard that forms in connection with the T-rail, a grooveway, said guard being unattached and free from the rail or rail support, but attached to the paving that is free from the rail.

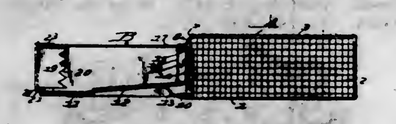
1,349,452. SEPTIC-TANK. MELVIN JAMES GRIFFITH, Barberton, Ohio. Filed Oct. 2, 1919. Serial No. 327,917. 3 Claims. (Cl. 210—6.)



1. A septic tank adapted to contain water including inlet and outlet openings, and a V-shaped bacteria brood-

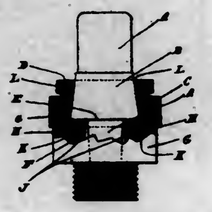
ing pocket in said tank, said pocket being open at its bottom which is disposed below the normal water line to permit the water to circulate therethrough.

1,349,453. TRAP. JAMES H. HALL, Mountain Grove, Mo. Filed Jan. 9, 1918. Serial No. 211,040. 1 Claim. (Cl. 43—67.)



A trap comprising a cage, a tubular member extending from the cage but communicating with the latter at its point of junction therewith, a transversely disposed shaft journaled in opposite sides of the tubular member adjacent the cage and provided with crank portions exterior to the tubular member, a door attached to said shaft for vertical swinging movement from open to closed position to open and close communication between the tubular member and the cage, vertically disposed rods pivotally mounted on opposite sides of the tubular member at the end remote from the cage, a door secured to each rod member so that the two may swing back into the tubular member to open the end thereof or swing transversely across the tubular member to close the said end, each door being provided with an arm projecting to the opposite side of the axis of the rod member to which it is attached, and connecting rods having their one end pivotally connected to one of the said arms and their remaining ends to the aforesaid crank portion.

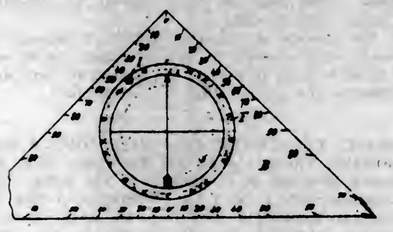
1,349,454. SPARKING-PLUG FOR IGNITION PURPOSES. ARTHUR ERNEST HEATH, London, England. Filed Oct. 24, 1919. Serial No. 332,945. 1 Claim. (Cl. 123—169.)



In sparking plugs for ignition purposes of the class described, an insulator, a gland nut having a tapered bore for engaging the insulator and formed with an extension at the big end of the bore for holding a packing washer; said insulator having tapered outer sides and so formed that the taper portion of the insulator provides a shoulder, a packing washer, a spark plug body formed with a projecting ring of slightly smaller diameter than the bore of the gland nut on its internal shoulder for engaging with the packing washer situated between it and the shoulder on the insulator, substantially as and for the purpose set forth.

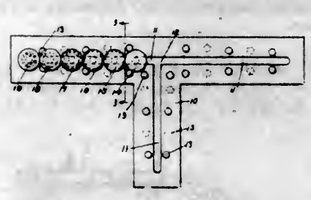
1,349,455. ADJUSTABLE COMPASS-DIAL. HANS THORVALD ZEINER-HENRIKSEN, Christiania, Norway. Filed Mar. 25, 1920. Serial No. 368,713. 8 Claims. (Cl. 33—75.)

1. An adjustable compass dial for determining the direction of a line on a map as indicated by a compass comprising two transparent disks adjustable relatively to each other one of said disks being in the form of a rectangular triangle and having a circular opening while the other disk has a circular shape and is rotatably mounted on the first named disk so as to cover the said opening said circular disk being provided with an arrow or a cross



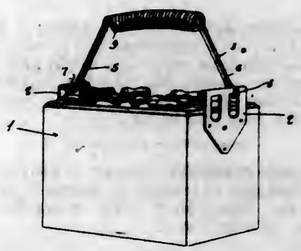
indicating the north-south line or north-south and east-west, while the other disk is provided with a complete set of compass points.

1,349,456. PUZZLE. VATSLAV A. HLASKO, New York, N. Y. Filed Apr. 10, 1919. Serial No. 289,085. 7 Claims. (Cl. 46—41.)



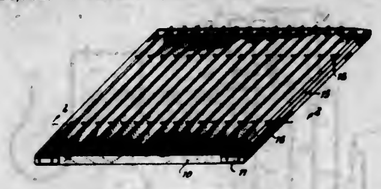
1. A puzzle comprising a member provided with a plurality of slots communicating with each other, elements movable longitudinally of said slots, and means for restricting the movement of said elements in said slots.

1,349,457. LIFTING-HANDLE FOR STORAGE BATTERIES. ENOS A. HURD, Woodward, Okla. Filed Mar. 3, 1917. Serial No. 152,367. 1 Claim. (Cl. 220—95.)



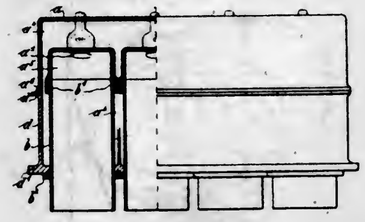
A detachable lifting handle for storage batteries of the class described constructed of a single strand of wire bent back upon itself to form a pair of parallel lengths comprising a pair of spaced arms, said lengths of wire being coiled intermediate said arms to form a cylindrical hand grip, the arms joining the hand grip at the upper portion of the end convolutions of the grip, said arms having their free ends curved outwardly and upwardly in opposite directions to form battery handle gripping hooks, the hand grip also forming an expansion spring for forcing the arms outwardly away from each other to hold the hooks in operative position and in engagement with the battery handle and permits the arms and hooks to engage batteries of various sizes.

1,349,458. DRIER-TRAY. CARL EDWARD JOHNSON, Boundbrook, N. J. Filed Sept. 19, 1919. Serial No. 324,962. 4 Claims. (Cl. 34—17.)



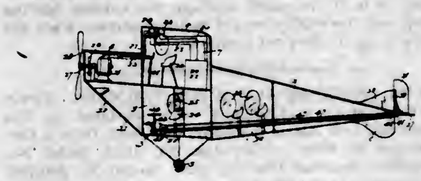
3. A drier tray comprising a plurality of angle strips each arranged with one of its legs vertical, means for fastening said strips together end to end to form a frame, a plurality of parallel channels formed from a single sheet of material, said channels having upright tapering flanges and having their webs arranged in one plane, said flanges of adjacent channels forming a plurality of air passages therebetween, a U-shaped member formed on each end of said metal sheet so as to engage the frame, a plurality of bolts passing through the flanges of the channels and engaging the frame so as to support said channels.

1,349,459. INTERNAL-COMBUSTION ENGINE. HENRI VICTOR JULES JOUFFRET, Paris, France. Filed Aug. 25, 1917. Serial No. 188,203. 2 Claims. (Cl. 123—173.)



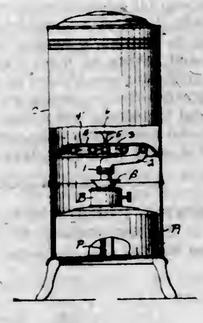
1. In an internal combustion engine, the combination of a head piece comprising a combustion chamber and the usual associated parts, for each cylinder, a screw threaded portion at the lower part of the said head piece for each combustion chamber, a cylinder provided with a screw thread and adapted to be screwd to each such screw threaded portion, a projecting portion of the head piece extending beyond each cylinder when in position, a jacket adapted to surround each cylinder with a certain amount of clearance, and having a part at one end adapted to contact with the projecting portion of the head piece, a ring adapted to surround each cylinder and means for securing the said ring to the cylinder so that the lower end of the jacket is held in close contact therewith when the cylinder is in position, all substantially as described.

1,349,460. AEROPLANE. GEORGE N. KASEMATIS and BARTHOLOMUS A. STAMATELOPOULOS, New York, N. Y. Filed Sept. 7, 1918. Serial No. 253,097. 1 Claim. (Cl. 244—29.)



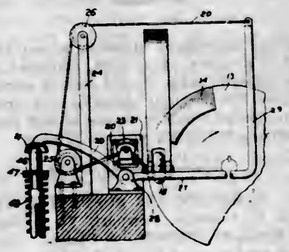
In an aeroplane, a fuselage having stabilizing surfaces at its rear end disposed one in a vertical plane and two in a horizontal plane, a rudder hingedly attached to the vertical stabilising surface, means adjacent the forward end of the fuselage for operating the said rudder, rudders hingedly attached to the horisontally disposed stabilizing surfaces and disposed one on either side of the first said rudder, the two last said rudders being provided with inwardly directed staffs alined with their hinged or pivotal connections, sheaves carried on the inner ends of the staffs, a rock shaft positioned adjacent the operating means of the first said rudder, sheaves carried on opposite ends of said rock shaft, bearing supports for said rock shaft, belts trained over the sheaves on the rock shaft and the sheaves on the staffs, and foot rests mounted on the rock shaft and provided with guards to embrace the feet whereby the rests may be moved in either direction in a plane at right angles to the axis of the rock shaft to effect rocking movement of the latter in either direction for the purpose specified.

1,349,461. AIR-HEATING ATTACHMENT. GEORGE DENIS KENNEDY, Jefferson City, Mo., assignor of one-half to Frank M. Strickland, Springfield, Mo. Filed Dec. 6, 1919. Serial No. 342,966. 3 Claims. (Cl. 126—90.)



1. An air heating device comprising a plate adapted to be supported adjacent a heating medium and provided with an opening, a coil carried by the face of the plate opposed to the heating medium, the inner end of the coil being in communication with the opening in the plate, the opposite end of the coil being in communication with the atmosphere, said plate being provided with additional openings arranged between the convolutions of the coil.

1,349,462. MARKER FOR PLANTERS. OTTO HENRY KOHLHAAS, Calumet, Mich. Filed May 24, 1919. Serial No. 299,640. 3 Claims. (Cl. 111—30.)



1. A marker adapted for use in connection with a planter, including a driven disk provided with an inclined shouldered portion, a rod for actuating the conventional seed droppers used in connection with such planter, a lever

having one of its ends secured to such rod and being provided at its opposite end with a roller adapted to be engaged by the inclined shouldered portion, a marker secured to such planter, a lever provided with a cup-shaped part at its outer end adapted to engage and to depress such marker, pulleys, and a flexible cable having one of its ends secured to the inner end of the latter extending around such pulleys, and having its opposite end secured to the roller end of the first named member.

1,349,463. DUST-CAP FOR PNEUMATIC-TIRE VALVES. JOHN WILLIAM LAIRD, Pasadena, Calif. Filed Jan. 5, 1920. Serial No. 349,546. 4 Claims. (Cl. 152—12.)



1. In a dust cap for pneumatic tire valves, the combination with a valve body, of a flanged rim nut for securing the valve body in position, a tubular extension formed on said rim nut and having an inner rigid threaded portion engaging the projecting end portion of said valve body and an outer unthreaded elastic portion surrounding the valve body and spaced therefrom, and a dust cap having an unbroken elastic end portion engaging said tubular extension and abutting the outer face of the flange of said rim nut.

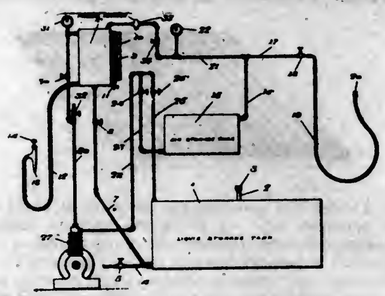
1,349,464. DENTAL INSTRUMENT. LOUIS A. LANCIT and BOYD U. ZERGER, Newark, N. J. Filed June 14, 1919. Serial No. 304,122. 8 Claims. (Cl. 32—10.)



1. A dental instrument including a rest to engage the outer end of a crown on a tooth, clamping members arranged on opposite sides of said rest to engage the sides of the crown for securely gripping the crown between them, and a cutter mounted on one of said clamping members for slitting the crown while so gripped.

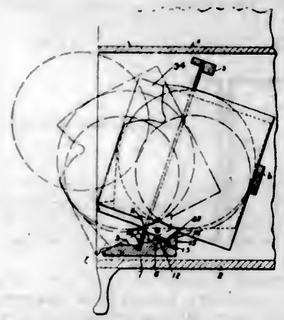
1,349,465. FUEL AND AIR SUPPLYING APPARATUS. WILLIAM C. LINDSAY, Newport, Vt. Filed Dec. 30, 1919. Serial No. 348,427. 8 Claims. (Cl. 221—99.)

1. In an apparatus of the character described, a liquid storage tank, an elevated measuring tank, a pipe connecting said tanks, for the upward flow of liquid from the storage to the measuring tank, a pump, a pipe connecting said pump and upper portion of the measuring tank for exhausting the air therefrom, delivery means leading from the bottom of the measuring tank for delivering the liquid therefrom, an atmospheric valve for the second named



pipe, and means supplied with air from the pump for the delivery of air either to the liquid storage tank or measuring tank for displacing the liquid therefrom.

1,349,466. RECORD-FILING CABINET. ROBERT MCCART, Jr., El Paso, Tex. Filed May 13, 1919. Serial No. 296,776. 2 Claims. (Cl. 211—16.)

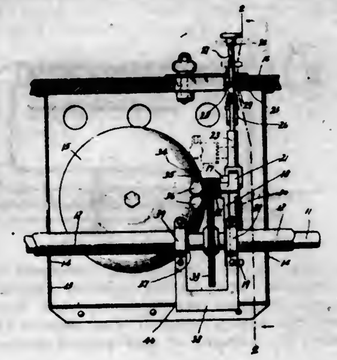


1. A record cabinet including a number of independent containers, blocks provided with openings secured to the lower portion of such containers, a base block positioned below the container blocks, and a rod provided with a pointed end adapted to pass through the latter blocks and to act as a pivot therefor, such blocks being spaced from the base block when the rod is in proper position but being adapted to rest upon the upper face of the base block upon the removal of said rod.

2. A record cabinet, including a base block, the upper surface of such base block having an apex and trough portion, such surface being inclined upwardly adjacent the forward edge of the block, an envelop, a block forming a part of such envelop, and means associated with such block for permitting a rocking of the same, such block being adapted to be positioned above the apex in the upper surface of the base block, and being adapted to project within the trough portion of the base block when the envelop is in its rearmost position, the envelop bearing against such forwardly located inclined surface when the envelop is in its forward position.

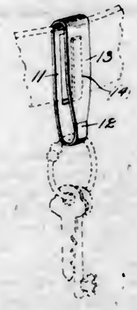
1,349,467. AUDIBLE ALARM FOR VEHICLES. LEWIS HOWELL MORGAN, Cleveland, Ohio, assignor to The American Auto Alarm Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 24, 1918, Serial No. 213,520. Renewed June 22, 1920. Serial No. 390,790. 3 Claims. (Cl. 116—33.)

1. In an alarm for vehicles, the combination with a master gear fixed to a rotating shaft and a gong adjacent thereto, of means coöperating with the gong to ring the same including a pinion adapted to mesh with the master gear and means pivoted to the pinion to swing into engage-



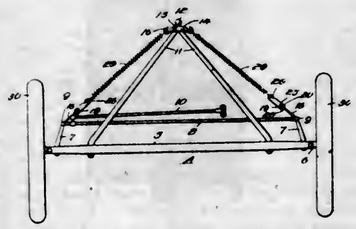
ment with the gong when the pinion rotates, and key controlled means to determine the position of the pinion with respect to the master gear.

1,349,468. KEY-RING HOLDER. WILLIAM N. MORRISON, St. Louis, Mo. Filed Oct. 6, 1919. Serial No. 328,653. 2 Claims. (Cl. 24—3.)



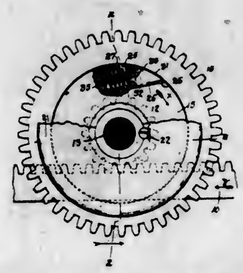
1. A key ring holder formed from a single piece of metal and comprising a back portion, a hook at the lower end thereof, a resilient tongue depending from the upper end of said back portion, the lower end of which tongue bears against the upper edge of the front leg of the hook, and a narrow strip of material secured at its lower end to the lower portion of said back portion and extending upwardly between said back portion and said tongue.

1,349,469. STEERING-ADJUSTER FOR AUTOMOBILES. DUNCAN MOULDER, San Antonio, Tex. Filed Sept. 6, 1919. Serial No. 322,110. 1 Claim. (Cl. 280—94.)



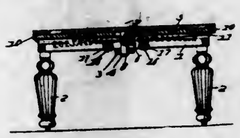
An adjuster of the character described comprising a double hook member adapted to be secured to the front radius rods of an automobile, bolt members adapted to be connected to the spindle arms of a front axle assembly of said automobile, hooks adjustably connected to said bolt members, and coiled tension springs connected with the double hook members and said hooks on the bolt members.

1,349,470. MECHANICAL MOVEMENT. GEBHARD MÜLLER, New York, N. Y. Filed June 6, 1919. Serial No. 302,187. 3 Claims. (Cl. 74—53.)



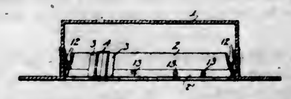
1. A mechanical movement for converting reciprocating movement into intermittent rotary movement, comprising a driving wheel rotated alternately in opposite directions, a driven wheel, a carrier rotating with the said driven wheel and on which the said driven wheel is mounted to turn, the said carried having a cut-out portion at its peripheral face, the bottom of the cut-out portion forming a portion of a chord, and the side wall of the cut-out portion being approximately at a right angle to the said bottom, and a spring-pressed clamping member mounted to slide and rock in the said cut-out portion and having a roughened segmental peripheral face adapted to engage the inner face of the said driven wheel.

1,349,471. EXTENSION-TABLE. ERNEST T. NOENNIG, Wittenberg, Mo. Filed Mar. 13, 1919. Serial No. 282,408. 1 Claim. (Cl. 45—113.)



An extension table comprising a frame, a top carried by the frame, a supporting member for the top, said supporting member being slidably mounted in the frame for vertical movement therein, a crank rod journaled in the frame and provided with a pair of spaced cranks straddling the supporting member, a U-shaped member having its main portion passing through the supporting member and rockingly connected thereto and the extremities of its legs pivotally connected to the crank portion of the crank rod, means for operating the crank rod, and extension leaves movable from positions below the top to positions in the same plane with the latter, the crank rod serving to elevate and lower the top to permit the extending or retracting of the leaves.

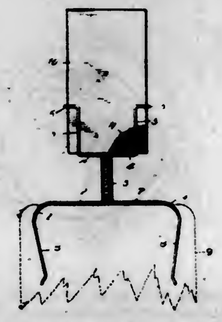
1,349,472. SWEATBAND FOR HATS. JULIUS CHARLES PETERSON, Spokane, Wash. Filed July 15, 1919. Serial No. 310,949. 4 Claims. (Cl. 2—32.)



1. A sweat band for hats, comprising a strip, and straps for attaching said band to a hat, said straps located at the

front and rear portions of the sweat band, certain of said straps secured to the lower portion of the sweat band and others of said straps secured to the upper portion of the sweat band.

1,349,473. DRINKING-CUP HOLDER FOR WATER-BOTTLES. CHARLES ROSENTHAL, New York, N. Y. Filed Sept. 9, 1919. Serial No. 322,619. 4 Claims. (Cl. 248—30.)



1. A device of the character stated, comprising a plurality of spring wire members, bottle engaging hooks formed on the lower ends of said members, the upper ends of said members bent forming a carton support, and a coupling device connecting the intermediate portions of the members holding them together and permitting independent movement of the members.

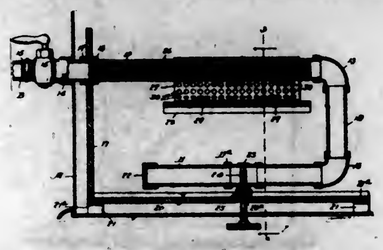
1,349,474. SYRINGE. OSCAR O. R. SCHWIDETZKY, Hasbrouck Heights, N. J., assignor to Beckton, Dickinson & Co., Rutherford, N. J., a Corporation of New Jersey. Filed Nov. 2, 1917. Serial No. 199,906. 2 Claims. (Cl. 128—231.)



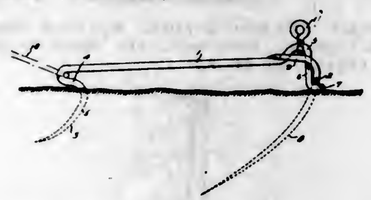
1. A syringe, comprising a barrel provided at one end with a discharge nozzle and at the opposite end with a transverse wall having a minute air aperture open at all times, a nipple formed integrally on the outer face of the wall and into which opens the said minute aperture, the nipple having a bulbous portion, and a rubber bulb having a neck fitting exteriorly on the said nipple, the air in the bulb and the said wall forming a support for a body of liquid held within the barrel and preventing passage of the liquid from the barrel into the nipple and bulb upon inclining the syringe with the nozzle upward.

1,349,475. OIL-BURNING HEATER. DAVID SEINIGER, Middletown, N. Y. Filed Oct. 8, 1919. Serial No. 329,310. 2 Claims. (Cl. 158—63.)

1. A burner of the class described, including a vaporizing element affording a passage for the flow of the fuel and adapted to be connected with a source of fuel supply, a tubular element external of the first element and forming a space between said elements, said external element being perforated, and a jet element beneath said vaporizing element and in communication therewith to receive fuel therefrom, said tubular external element having transversely disposed spreader means rigid therewith at the underside, said jet element being adapted to direct a jet against the underside of said spreader means.

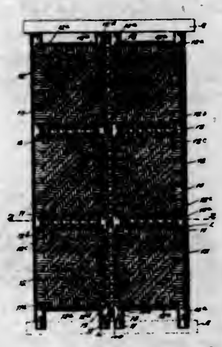


1,349,476. GROUND-ANCHOR. ISAAC SOLBERG, Rice Lake, Wis. Filed Nov. 15, 1919. Serial No. 338,197. 1 Claim. (Cl. 189—90.)



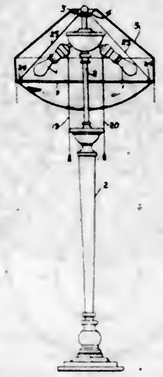
A ground anchor, of the character described, comprising two members, one member constituting a relatively horizontal bar bent at its rear end forming an upwardly projecting hump, a normally vertical post, and an eye at the lower end of the post, the forward end of said bar bent rearwardly and then curved forwardly forming a prong, the other member of said anchor constituting in the main a relatively long prong adapted to be positioned through the eye of the first-mentioned member, and having at its upper end a forwardly projecting loop adapted to receive the hump of the first-mentioned member.

1,349,477. WICKER PANEL. WILLIAM HENRY STOCKER, Philadelphia, Pa. Filed Feb. 10, 1920. Serial No. 357,647. 7 Claims. (Cl. 20—15.)



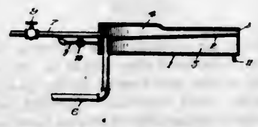
1. A panel of the class described including a plurality of sections, each presenting longitudinal frame bars and transverse frame bars, and woven material forming separate woven areas in each panel section, some of the strands of each section running to and being interwoven with the other areas of the section and other strands of the separate areas of the section running to and being interwoven with the areas of the other section.

1,349,478. INDEPENDENTLY-DETACHABLE UNDERSHADE FOR LIGHT-STANDARDS. MATTHEW Y. SUGIMURA, New York, N. Y. Filed Apr. 29, 1919. Serial No. 293,511. 5 Claims. (Cl. 240—108.)



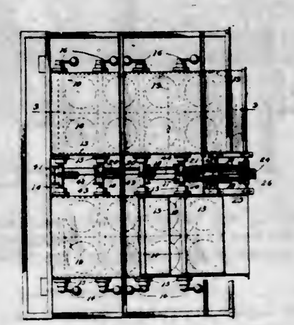
1. The combination of a supporting standard, lighting fixtures including a source of light, mounted on the upper part of said standard, an upper shade for said fixtures, an undershade comprising a plurality of substantially concentric split frame members and radially extending members rigidly connecting the concentric frame members, and adapted to form a radially extending passage through which the standard may pass, means connecting the end of one of the concentric split frame members, and a means for supporting the undershade on a standard below the lighting fixtures and the upper shade, the said means including connectors extending from the outer concentric frame member to the supporting standard, one end of the connectors being detachably fastened to the undershade, whereby the said undershade may be independently positioned without requiring the removal or disassembly of the lighting fixtures or the uppershade.

1,349,479. OIL-BURNER. ANTONIO T. TIMOSCI, San Jose, Calif. Filed Oct. 22, 1919. Serial No. 332,495. 1 Claim. (Cl. 158—75.)



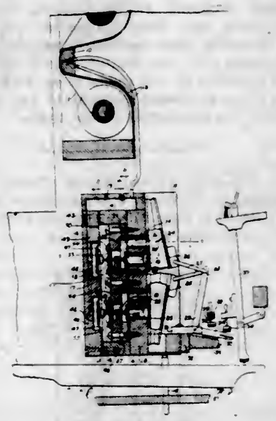
A device of the character described comprising a horizontally disposed casing, an inclined partition within said casing dividing the interior thereof into a lower heating chamber and an upper vaporizing chamber, the side of the casing within the vaporizing chamber at the higher end of the partition being open to provide a discharge, a fuel supply pipe extending vertically into said casing at the opposite side thereof through the partition and discharging into the vaporizing chamber, a steam supply pipe extending horizontally into the vaporizing chamber at the second named side thereof and discharging across the upper end of said fuel pipe and directly toward the open side, and a branch pipe leading from said steam pipe horizontally into said heating chamber to heat said partition plate.

1,349,480. PNEUMATIC DUST-COLLECTING SYSTEM AND APPARATUS THEREFOR. JOHN WILSMORE, Woollahra, near Sydney, New South Wales, Australia. Filed Nov. 13, 1919. Serial No. 337,664. 7 Claims. (Cl. 183—53.)



1. In a pneumatic dust collecting system provided with a series of porous filter hose or tubes, successively directing the dust laden air through certain of said tubes at a high velocity to dislodge the dust particles collected therein to a storage chamber and then leading the air from said chamber at a lower velocity to the remaining tubes closed at their opposite ends whereby it filters through the interstices of the fabric of the tubes.

1,349,481. PLAYER-PIANO ACTION. WALTER JOSEPH WODRASKA, New York, N. Y. Filed May 2, 1919. Serial No. 294,234. 4 Claims. (Cl. 84—50.)

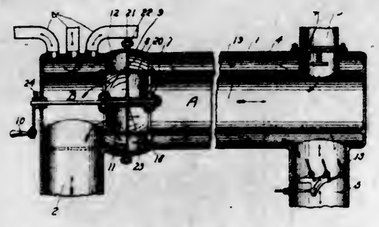


1. In a pneumatic player piano, the combination of a valve casing, a plurality of pneumatics carried thereby, hammer actuating means coöperating with the pneumatics, said casing being provided with a vacuum chest common to a plurality of the pneumatics, a series of valve blocks arranged within the vacuum chest, a plurality of independent valves supported by and within each block and controlling communication between the atmospheric air in the respective pneumatic and the vacuum in the chest, and means to provide pneumatic actuation of each valve.

1,349,482. DEVICE FOR CONSERVING FUEL. WILLIAM OLNEY WOOD, Riverside, R. I. Filed Feb. 19, 1919. Serial No. 277,945. 5 Claims. (Cl. 257—246.)

4. In a device of the class described, in combination, a passage for relatively hot gases, a passage for relatively

cold gases, and a drum included within said passages, comprising two sets of fans operating, respectively, in each of said passages and consisting of a single in-



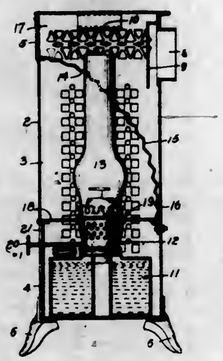
strumentality, the blades of said fans being oppositely pitched the flow of said relatively hot gases through the passage therefor being automatically controlled.

1,349,483. LAMP-FIXTURE. FRANK YOKEL, Pittsburgh, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 19, 1917. Serial No. 149,441. 5 Claims. (Cl. 240—73.)



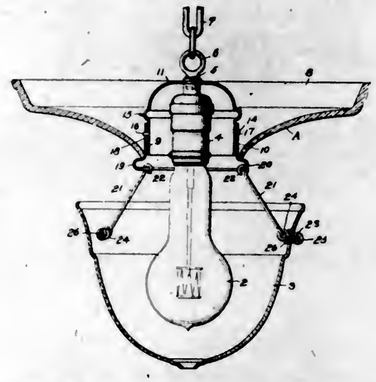
1. A lamp fixture including a shade having a border opening in the rear face thereof, a lamp, exterior and interior shade clamping plates covering the opening, a combined shade and lamp supporting tubular member having a threaded stem portion extending through said clamping plates and into the interior of the shade, locking means mounted on and coöperating with the threaded stem, and a lamp bracket secured to the stem and inclosed within the boundaries of the shade.

1,349,484. OIL-HEATER. FRANK YOKEL, Pittsburgh, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Filed Aug. 25, 1917. Serial No. 188,113. 3 Claims. (Cl. 126—97.)



1. In an oil heating stove, the combination with a casing having its front formed with an upper and a lower closed portion and an open intermediate portion, of a removable oil burning structure of the central draft lamp type disposed in the casing including a reservoir, a burner and chimney, an apertured partition plate within the casing above the reservoir, and an apertured heat reflector plate within the casing secured to and extending upwardly from the rear wall of the casing to the upper front portion thereof, said chimney extending through the reflector.

1,349,485. LIGHTING-FIXTURE. FRANK YOKEL, Pittsburgh, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 26, 1917. Serial No. 203,891. 2 Claims. (Cl. 240—92.)



1. In a lighting fixture, the combination with an open-top bowl, a glass reflector spaced from the top of the bowl and having a central opening and a concavo-convex reflecting portion extending from the opening with its concave side nearest to and projecting beyond the periphery of the upper end of the bowl, and common supporting means for the bowl and reflector including telescoping members provided with coöperating pins and slots, the outer of said members having an annular flange, the wall of the reflector opening mounted on the flange, and means connecting the flange and bowl.

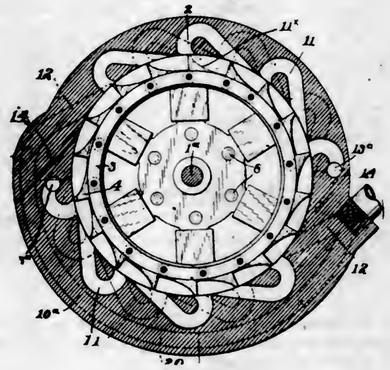
1,349,486. NECKTIE. ABRAHAM M. BAKERMAN, New York, N. Y. Filed Aug. 22, 1919. Serial No. 319,141. 1 Claim. (Cl. 2—83.)



An attachment or accessory for neckties, comprising a straight bar, a transverse piece made on one end thereof, the upper end of the bar turned down in approximately parallel relation with the bar, openings made in the turned-down part, clamp legs with serrated ends pivoted between the bar and turned-down part with the serrations adapted to lie across the openings, a head piece placed adjacent the attachment, said head piece having passages made therethrough and registering with the openings in the turned-down bracket, and the aforesaid transverse bar bent around the head piece to hold the head piece and attachment together.

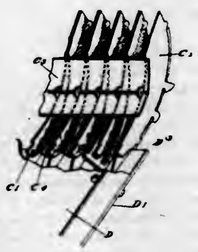
1,349,487. TURBINE-ENGINE. ERASTUS S. BENNETT, New York, N. Y. Filed May 31, 1917, Serial No. 172,010. Renewed Dec. 29, 1919. Serial No. 348,037. 6 Claims. (Cl. 253—53.)

1. A rotary engine comprising a rotor having peripheral pockets, having their front walls converging from the sides toward the center line of the periphery, a casing having inlet and exhaust ports for the steam to and from said pockets and having conduits connecting each pocket with that in advance for the passage of the steam from



pocket to pocket throughout the series, said conduits being arranged in two sets, the conduits of both sets communicating simultaneously with the pockets, substantially as described.

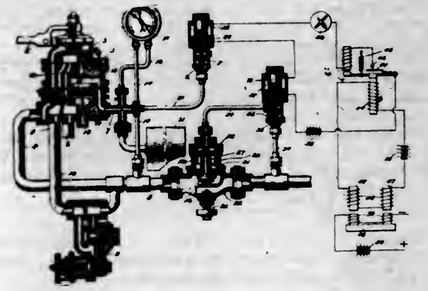
1,349,488. CHANNEL-ENTRANCE FOR TYPOGRAPHICAL MACHINES. ALFRED MARTIN BERRY, Woodhaven, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 23, 1919. Serial No. 325,705. 9 Claims. (Cl. 199—33.)



9. In a typographical machine, a channel entrance for guiding the matrices while passing from the distributer to the magazine, said channel entrance having partitions to form matrix passages between them, and a flat flexible blade fixed toward its upper end to the side of a respective partition and having its lower end projecting into the matrix passage, the lower end of said blade being movable laterally of the matrix passage by a passing matrix.

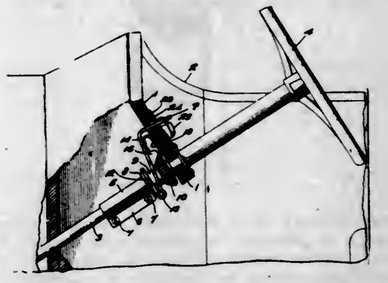
1,349,489. SAFETY TRAIN-STOP MECHANISM. JOHN W. BINGLEY, Watertown, N. Y. Filed Nov. 22, 1916. Serial No. 132,871. 5 Claims. (Cl. 246—190.)

1. The combination with an automatic railway brake system, having a main reservoir and an engineer's brake valve including an equalizing discharge chamber, of an electromagnetic vent valve for releasing air from said chamber; an electromagnetically controlled stop valve for cutting off the supply of air from the main reservoir to the engineer's brake valve; a circuit including both



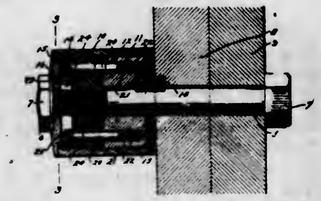
said electromagnetic valves; and means for controlling said circuit to operate said electromagnetic valves in unison.

1,349,490. LOCK FOR AUTOMOBILE STEERING-GEAR. HENRY H. BROOMHEAD, Bloomington, Idaho. Filed Jan. 15, 1920. Serial No. 351,573. 3 Claims. (Cl. 70—90.)



1. In a device of the class described the combination of a steering post of a motor vehicle; a toothed means adapted to be rigidly associated with said post; a flat perforated plate surrounding said post; a bent member hinged to said plate provided with a toothed member adapted to engage and disengage said first named toothed means to prevent a movement thereof; spring means rigid with said bent member adapted to normally maintain said toothed means and said bent member out of engagement; and means adapted to positively maintain said first and second named means in engagement against the action of said spring means, substantially as described.

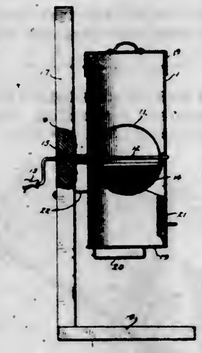
1,349,491. LOCKING DEVICE. GEORGE W. BURTON, Providence, R. I. Filed Nov. 28, 1919. Serial No. 341,130. 5 Claims. (Cl. 151—33.)



3. In a device of the character described, a casing, rotatable and non rotatable members in said casing having axial bores, the bore of the rotatable member being threaded and made to receive the threaded end of bolt or spindle,

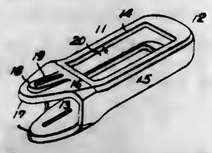
with the spindle passed through the bore in the non rotatable member, means for normally maintaining the casing and the non rotatable member in fixed relation relative to the bolt or spindle, and means for locking the rotatable member to said non rotatable member, comprising recesses in the non rotatable member, pins in said recesses, and recesses in the rotatable member adapted to receive said pins and means for displacing said pins from the recesses in the rotatable member, comprising a series of like pins carried in the recesses of the rotatable member and abutting against the said first mentioned pins, and means detachably engaging the device for manipulating said last mentioned pins to impart a thrust thereto and in turn to said first mentioned pins.

1,349,492. AGITATING DEVICE. PATRICK GEORGE CAMPBELL, Monolith, Calif. Filed Nov. 3, 1919. Serial No. 335,319. 1 Claim. (Cl. 83—60.)



In an agitating device, a revoluble receptacle, a support on which the receptacle is mounted with freedom of rotation, a spring tension catch on the support for automatically maintaining the receptacle in an upright position, a sifter fixed to the support and around which the receptacle is capable of being rotated, an agitator in the receptacle adapted to coact with the sifter, and a cover for one end of the receptacle comprising a container adapted to telescope within the receptacle and receive the material agitated through the sifter.

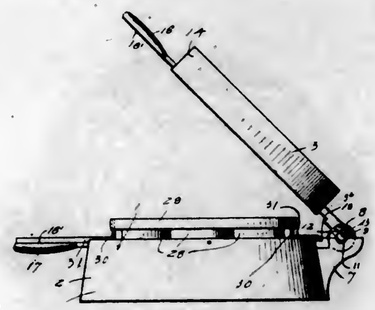
1,349,493. METHOD OF MAKING DRAFT-GEAR YOKES. ARTHUR J. CANFIELD, Montreal, Quebec, Canada. Filed Mar. 25, 1920. Serial No. 368,509. 6 Claims. (Cl. 29—167.)



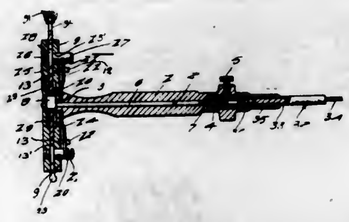
1. A method of making draft gear yokes and the like, which comprises piercing a billet to form a hollow body open at one end and closed at the other end, forming jaws at the open end of the body, and opening the body between said jaws and the closed end of the body for the reception of draft gear.

1,349,494. OVEN. HERBERT H. CHAFFEE, San Leandro, Calif. Filed June 25, 1918. Serial No. 241,783. 5 Claims. (Cl. 52—10.)

1. A portable oven comprising a pair of sections, means detachably and pivotally connecting the sections together, false bottoms arranged in each section, means for spacing the bottoms from the upper and lower walls of the sections, the false bottoms being provided with a plurality of perforations, and springs carried by the false bottoms arranged to engage the sections to prevent accidental displacement thereof.



1,349,495. MASSAGE IMPLEMENT. FERNAN CONILL, New York, N. Y. Filed Mar. 21, 1917. Serial No. 156,328. 1 Claim. (Cl. 128—51.)

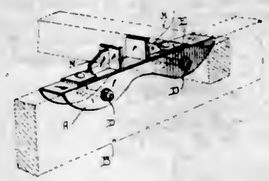


In a device of the character described, an axially bored handle, a head secured on one end of said handle and provided with spaced apertures, a cap piece, studs secured in said cap piece and projecting through the apertures of said head, the studs being provided with notches beyond the head and having guide flanges adjacent the inner face of the cap piece, a shaft rotatably mounted through the handle and provided on its inner end with an eccentric, a plate reciprocable between the head and cap piece provided with slots for reception of the guide flanges and with a central opening receiving said eccentric for reciprocating the plate when the shaft is rotated, and resilient locking arms turnable about the handle into engagement with the notches of said studs, said arms being adapted to be placed under tension when in locking position so as to force the cap piece toward the head for preventing looseness of said plate while permitting reciprocation thereof, said plate being provided with a massage member at one end and a weight member at its other end.

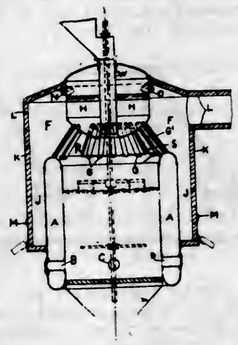
1,349,496. DEVICE FOR HOLDING HAYRACKS. WILLIAM E. CRAWFORD, Chapin, Iowa. Filed Aug. 23, 1919. Serial No. 319,343. 1 Claim. (Cl. 296—9.)

A device for holding hay racks, consisting of a metallic plate having longitudinally extending parallel flanges, adapted to fit against the side piece of a wagon frame, means for securing said plate to the side piece of a wagon frame, a bar disposed upon and extending longitudinally of said plate and having intermediate its end

spaced upward extending flanges, and braces for preventing collapse of said flanges, each of said braces comprising a metallic strip slit transversely intermediate its ends and having upward bent lateral portions, bearing against the outer face of the adjacent flange of the bar.

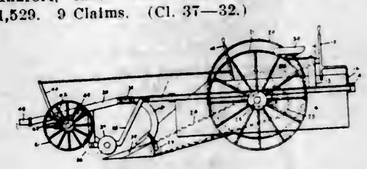


1,349,497. GAS-PRODUCER. ERNEST HOPE CRUSH, Bickley, England. Filed Dec. 29, 1919. Serial No. 348,210. 2 Claims. (Cl. 48—76.)



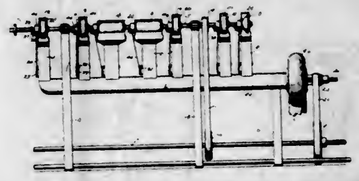
1. A gas producer comprising a producer shaft, an annular water chamber surrounding the shaft, a second annular water chamber placed above the shaft, a casing surrounding both annular chambers, said casing providing a gas chamber, an off-take for producer gas at one side of the upper part of the gas chamber, upwardly and inwardly inclined tubes connecting the two annular water chambers, said tubes being arranged in sets spaced apart, said tubes being so arranged that those sets which are adjacent the gas off-take are closer together than those which are more removed from said off-take, a baffle plate behind each set of tubes, said baffle plate being of the same width as the set with which it is in adjacency, the top of said casing being formed with poke holes, said poke holes being in registry with the spaces between the several sets of tubes.

1,349,498. ROAD-GRADER. ALBERT N. DAYWITT, Frankfort, Ind. Filed July 17, 1919. Serial No. 311,529. 9 Claims. (Cl. 37—32.)



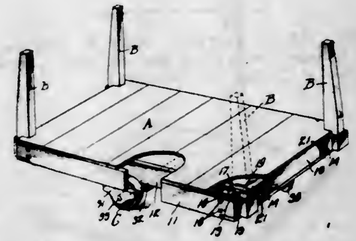
4. A road grading machine comprising a longitudinal beam, a frame fixed to one side thereof and mounted on wheels, the wheel adjacent to said beam being pivoted at a higher level than the other wheel, a receptacle pivotally mounted in said frame, means for dumping said receptacle, a conveyer mounted in said receptacle, means on the wheel adjacent said beam for driving said conveyer, means for disengaging said conveyer from said wheel, means for cutting earth, a set of wheels mounted on the forward end of said beam, and means for raising the forward portion of said beam to raise the cutting means.

1,349,499. SUCTION-CONTROLLING DEVICE. LOUIS J. DELLERT, Brooklyn, N. Y. Filed Oct. 28, 1919. Serial No. 333,913. 6 Claims. (Cl. 51—17.)



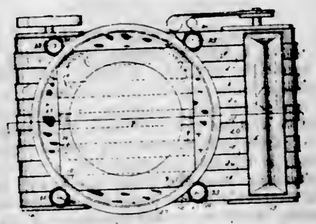
1. In a grinding machine, a plurality of grinding wheels each provided with a hood having a branch pipe connected with a main suction pipe, and suction controlling devices, one for each wheel, and having closing means to normally close the corresponding branch pipe to the main suction pipe, each controlling device having actuating means connected with the said closing means and controlled by the corresponding grinding wheel to move the closing means into open position on applying an article to the grinding wheel.

1,349,500. TRUCK. EMIL DIETZ, Indianapolis, Ind. Filed June 11, 1919. Serial No. 303,288. 5 Claims. (Cl. 296—43.)



1. A truck mounted to be supported mainly upon centrally disposed wheels and constructed with a frame the sides of which are each composed of two parallel members spaced a distance apart, corner irons interposed between said side members at each end and formed with sockets to receive the stakes, end members connected with said side members, and securing devices for securing said corner irons, side members and end members together, substantially as set forth.

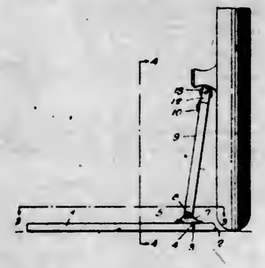
1,349,501. MAGNETIC SEPARATOR. MYRON DINGS, Milwaukee, Wis. Filed Aug. 2, 1918. Serial No. 247,917. 15 Claims. (Cl. 83—71.)



1. In a magnetic separator, an electromagnet having stationary attracting polar projections subdivided into

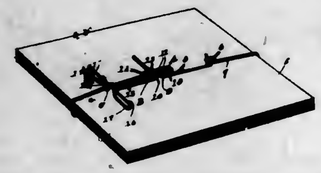
short sections, disposed in a series transverse to the line along which the material travels, and having each projection in the series also disposed transversely to said line, and separated from the other projections by non-magnetic gaps.

1,349,502. HUB-JACK. JOHN P. DORAU, North Fond du Lac, Wis. Filed Mar. 11, 1920. Serial No. 364,934. 3 Claims. (Cl. 254—123.)



1. A jack comprising a lever having its fulcrum at one end, said lever having thrust means, a plate carrying a pivot and having thrust means offset laterally from the pivotal axis and engageable with the thrust means of said lever, said plate being reversible to locate said pivot at either of two distances from the fulcrum when the aforesaid thrust means are engaged, means for securing said plate to said lever in either of its positions, and a lifting-arm mounted on said pivot.

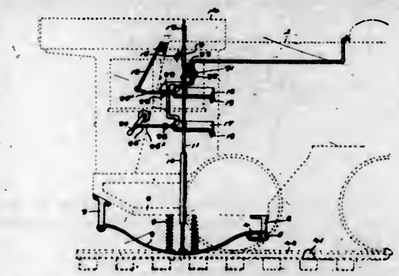
1,349,503. TYING DEVICE. JOHN W. DOWDLE, Mineral Springs, Ark. Filed Dec. 10, 1918. Serial No. 266,075. 2 Claims. (Cl. 24—131.)



1. A device for the purpose set forth, including a spring member having an arched body provided at one of its ends with an offset eye designed to receive therein one end of a tying cord, said body adapted to be centrally bent upon itself to form reversely extending spring jaws to provide a short turn frictional engagement for the free end of said cord, the second end of the body being extended laterally to provide a bridge, the said bridge being arched and being centrally formed with an upstanding cord guide, as and for the purpose set forth.

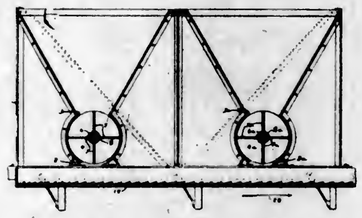
1,349,504. AUTOMATIC TRAIN-STOPPING MECHANISM. ALVA A. EVANS, Annona, Tex. Filed Aug. 15, 1919. Serial No. 317,736. 1 Claim. (Cl. 246—188.)

An automatic train-stop mechanism adapted to be carried by a locomotive and comprising in combination with the locomotive and the throttle lever and engineer's valve thereof, a longitudinal downwardly bowed spring, one end of which is movable longitudinally, a rod connected to and extending upwardly from the bowed spring, a ratchet bar connected to the upper end of said rod, a dog for preventing casual downward movement of the ratchet bar, longitudinally disposed cylinders, a conduit intermediate of a source of steam supply and the cylinders and having a rocking valve on which is a lever loosely and directly connected with said rod, and pistons disposed



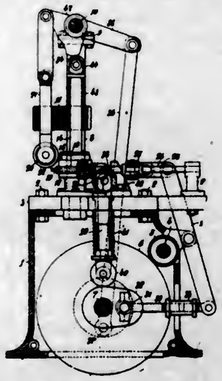
in said cylinders and connected with the throttle lever and the valve lever.

1,349,505. BLENDING-MACHINE. HARRY P. FLEMING, Santa Clara County, Calif. Filed Sept. 2, 1919. Serial No. 321,292. 2 Claims. (Cl. 259—17.)



1. A blending machine comprising a pair of hoppers mounted to receive and discharge material therefrom, revoluble measuring devices operatively mounted to receive from said hoppers, a friction disk operatively mounted to rotate each of said devices, adjustable friction wheels operatively mounted to simultaneously rotate said disks, and means for simultaneously adjusting said friction wheels with relation to the axes of their respective disks whereby the same may be caused to rotate at different speeds.

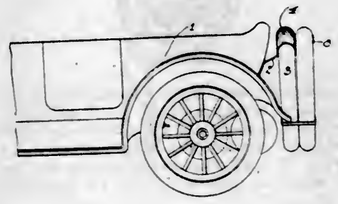
1,349,506. MACHINE FOR MAKING HORSESHOES. CHARLES FREDERIK VILHELM FLINT, Copenhagen, Denmark, assignor to The Firm of Dansk Staalbeholder Fabrik Akts, Copenhagen, Denmark. Filed Sept. 8, 1919. Serial No. 322,311. 4 Claims. (Cl. 59—37.)



1. A machine for making horse-shoes, comprising means for bending a rod-shaped body into the shape of a horse-

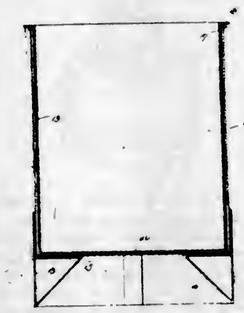
shoe, means for the producing of calks at the ends of said body, means for the producing of a clipping substantially at the middle of said body, and means for retaining the rod-shaped body in one and the same working place while being bent and operated upon for the producing of the said calks and clipping.

1,349,507. TIRE-CARRIER. WALTER R. GREEN, Chicago, Ill. Filed Aug. 13, 1917. Serial No. 185,927. 2 Claims. (Cl. 224—29.)



1. A tire carrier, comprising an elongated bracket curved in substantially semi-circular form to fit the tread of a vertically disposed supporting tire upon opposite sides of its vertical center and reversely hooked to engage a supported tire so that the latter tire is suspended therefrom, said members being provided with plate portions intermediate of and at the outer sides of each tire engaging the lateral walls thereof so that the weight of the supported tire cramps the bracket in engagement with the tires and obviates transverse dislocation.

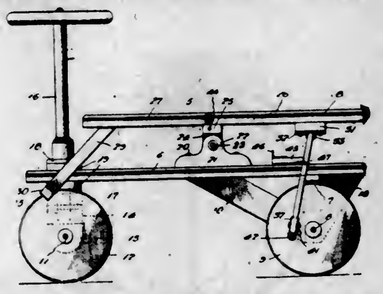
1,349,508. COOKING VESSEL. TILLIE HARRINGTON, Minneapolis, Minn. Filed Aug. 5, 1919. Serial No. 315,489. 2 Claims. (Cl. 53—1.)



1. A device of the character described comprising an outer cylindrical container formed of wire mesh and provided with supporting feet, and a removable inner container slidably disposed within said outer container and formed of wire mesh of finer screen than said outer container.

1,349,509. TOY VEHICLE. PERCY H. HERRICK, Pittsburgh, Pa. Filed Oct. 13, 1917. Serial No. 196,452. 2 Claims. (Cl. 208—33.)

1. A device of the class described comprising a wheeled platform, a top having connections with the platform for rocking movement, a bearing block secured to said top, a pitman pivoted in said bearing block and having detachable connection at the extremity thereof with both



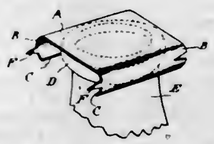
the top and certain of the wheels of the platform, and means hingedly connected on the platform and engaging under the bearing block for holding the top stationary.

1,349,510. BOILER-CLOSURE FOR HAND-HOLES. HARRY A. JOCHUMSEN, Wheeling, W. Va. Filed Dec. 26, 1919. Serial No. 347,287. 1 Claim. (Cl. 220—25.)



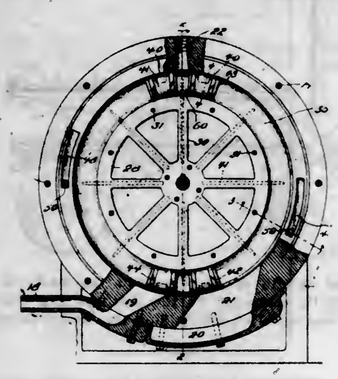
A stand boiler provided with an elliptical perforation near its bottom, an elliptical clamping member fitting said perforation and provided with a shoulder with clearance for a gasket and provided with a bolt extending centrally therethrough, said clamping member conforming in contour to said boiler, a complementary clamping member fitting upon said first clamping member with its inner side conforming in contour to and closely fitting said portion fitting said perforation.

1,349,511. COMBINED COVER AND CLOSURE-REMOVER FOR BOTTLES. EMELIA F. KANDLBINDER, Springfield, Ill. Filed Oct. 30, 1919. Serial No. 334,449. 1 Claim. (Cl. 215—53.)



A combined cover and closure remover of metal, comprising a flat rectangular body portion adapted to bear upon the top of a bottle, said body portion being provided with two oppositely disposed marginal depending flanges, curved in transverse cross-section, adapted to frictionally engage the sides of the bottle neck, each flange carrying at one end integral pointed spurs, and at the other end notches of a shape corresponding to said spurs.

1,349,512. ROTARY INTERNAL-COMBUSTION ENGINE. MENNO KLAY, Mount Hope, Ohio. Filed Oct. 26, 1918. Serial No. 259,779. 4 Claims. (Cl. 123—11.)



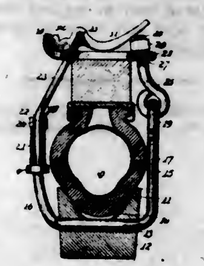
1. In a device of the class described, a casing, a fly wheel mounted therein and including an annular chamber, a plurality of ring members spaced apart and located within said chamber, a plurality of plungers carried by each ring member, the plungers on each ring being located diametrically opposite each other, means for introducing an explosive fluid between certain of said plungers and means for effecting the exhaust of the exploded gases, a stationary element, a device movable through one of the ring members for connecting the latter and the fly wheel, at a given time, and a device movable through the other ring member for connecting the member last named with the stationary element, said stationary element being interposed between the rings.

1,349,513. PARACHUTE. ZUZANA KOZA, Akron, Ohio. Filed Oct. 23, 1919. Serial No. 332,655. 3 Claims. (Cl. 244—21.)



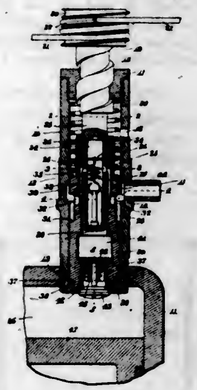
1. A device of the class described comprising a body harness, a parachute therefor, cords connecting the parachute to the body harness, cords carried by the harness adapted to engage the parachute when in folded position, said body harness including a belt section, leg straps carried thereby, loops carried by the ends of said leg straps, leg encircling cords carried by said straps, a crotch strap fixed to the belt at the rear side thereof and detachably connected to the front of said belt, a back and shoulder strap carried by the belt, and cords carried by the shoulder strap adapted to be connected to the belt at the front side thereof.

1,349,514. MUD-SHOE. GEORGE L. LAUER, Beatrice, Nebr. Filed May 3, 1919. Serial No. 294,520. 11 Claims. (Cl. 152—14.)



1. A mudshoe comprising a tire-engaging plate having a traction spur formed integrally with the plate, with a bore extending through the plate from one side to the other, said plate having a concave inner face and a recess countersunk in said face and exposing the bore, and clamping means mounted in the bore for holding the plate against the tire.

1,349,515. INJECTOR FOR INTERNAL-COMBUSTION ENGINES. LEVI W. LOMBARD, Mattapan, Mass., assignor of eleven-twentieths to Wilbert S. Bartlett, Brookline, Mass. Filed July 28, 1919. Serial No. 314,345. 5 Claims. (Cl. 123—25.)

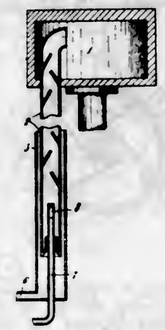


4. In a device of the class described, a cylindrical casing having an annular chamber in its inner wall; a reciprocating piston having an annulad peripheral groove always communicating with said annular chamber and provided with a water chamber communicating by lateral ports with said peripheral groove and a passage at one end communicating with the combustion chamber of an internal combustion engine; a supply pipe leading to said annular chamber; a normally stationary member positioned in a passage in the opposite end of said piston and provided with a water reservoir; a valve normally closing the outlet from said water chamber; means for limiting the movement of said piston in each direction; and means for returning said piston to its normal position.

1,349,516. DEVICE FOR SUPPLYING COOLING LIQUIDS TO PISTONS OF INTERNAL-COMBUSTION ENGINES. GERARD JOHAN LUGT, Amsterdam, Netherlands. Filed May 23, 1919. Serial No. 299,368. 2 Claims. (Cl. 123—176.)

1. In a piston cooling mechanism, the combination of a stationary tube having a water inlet, a reciprocating

hollow piston, a tube carried by said piston, and having an open end discharging into said piston, the lower end of the tube having a vertical flange spaced from the tubular walls to form a pocket, the flange also forming a restricted opening, baffles in said tube between the discharging and restricted ends thereof, and a water inlet



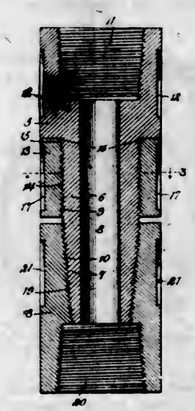
tube loosely telescoping the restricted end of said reciprocating tube, and having a closed end provided with water discharging openings, the water accumulating in the pocket, and the excess thereof passing through the space between the water inlet tube, and the flange, the water in the pocket being vertically lifted by momentum to the baffles, and eventually discharged into the piston.

1,349,517. FOUNTAIN-BRUSH. JOHN LUKASZEWSKI, Chicago, Ill.. Filed Feb. 18, 1920. Serial No. 359,512. 2 Claims. (Cl. 15—50.)



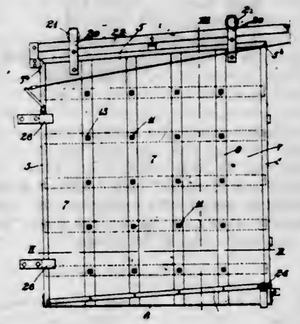
1. A fountain brush of the type described comprising a back, bristles secured to the outer end thereof, said back having a passage communicating with said bristles, a bulbous handle detachably connected to the inner end of said back, and supporting legs for holding the brush in upright position carried by the back.

1,349,518. TOOL-JOINT. HENRY CLAUDE LYLE, Beaumont, Tex. Filed May 11, 1920. Serial No. 380,697. 9 Claims. (Cl. 285—146.)



1. In combination, a pin, a box, and a locking collar or nut, the pin having a longitudinal bore, the box and the pin both having pipe coupling connections, the box and the collar both being screw-threadably mounted on said pin with the collar locking the box.

1,349,519. FIRE-RESISTING DOOR. EDWARD H. McCLOUD, Columbus, Ohio, assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Sept. 6, 1918. Serial No. 252,967. 4 Claims. (Cl. 189—47.)

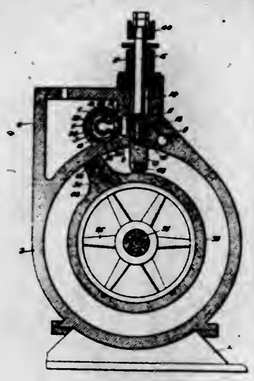


1. A door body comprising in combination a frame and panels or faces in said frame formed of corrugated strips, the corrugations of the strips of one face of the door extending at angles to those of the other face of the door, the strips of one face of the door being of less length than the distance between the frame members, and a strip secured to the frame independently of the corrugated strips closing the gap between the ends of said corrugated strips and the frame.

1,349,520. ENGINE. ORVILLE G. McMILLAN, Alpena, S. D. Filed Jan. 27, 1919. Serial No. 273,442. 2 Claims. (Cl. 121—76.)

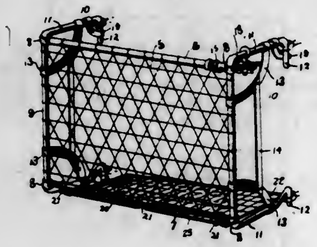
1. An engine of the class described comprising a cylinder having inlet and outlet ports, a rotary piston in said cylinder, a sliding head coöperating with the piston, means for actuating said head, a valve for controlling said ports.

a hand lever connected with the valve for setting the same, a lever adapted to be placed in engagement with



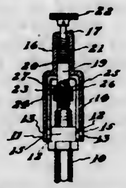
the hand lever and means for actuating said lever by movement of the piston for automatically operating the valve.

1,349,521. WINDOW-GUARD. DENNIS J. MAHONEY, Brooklyn, N. Y. Filed Aug. 30, 1917. Serial No. 188,917. 4 Claims. (Cl. 20—71.)



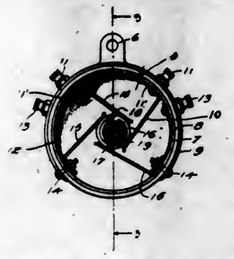
1. In a window guard, the combination of a front open-work panel, bars at the top and bottom of the panel and having eyes at their outer ends, wings at the ends of the panels and journaled in the eyes, a hinged bottom panel, attaching means with keepers at the inner ends of the wings, and a locking bar on the panel and adapted to secure and brace one of the wings.

1,349,522. VALVE-CAP. DANIEL W. MANNHARDT, Washington, Iowa. Filed Oct. 13, 1919. Serial No. 330,175. 1 Claim. (Cl. 152—12.)



The combination with a valve casing, of a nut threadedly engaged on the casing, a yoke having its ends pivotally secured to the nut, a sleeve extending from the yoke, a plunger slidable in the sleeve, a reduced shank extending from the plunger and projected through a restricted opening in the opposite end of the sleeve, the space surrounding the reduced shank defining a chamber whose end walls are formed by the upper end of the sleeve and a shoulder formed at the juncture of the plunger and its reduced shank, a cap carried by the lower end of the plunger for engagement over the end of the valve casing, and a spring located within the chamber to yieldingly hold the cap in such engagement.

1,349,523. TIMER FOR AUTOMOBILES. LESLIE E. MIDDLEBROOK, Hall, N. Y. Filed Apr. 19, 1919. Serial No. 291,324. 3 Claims. (Cl. 200—26.)

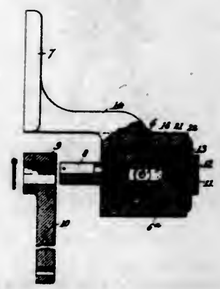


3. A timer including a casing, an annular insulating band secured to the inner side of the casing, a set of binding posts extending through the upper portion of the casing and said insulator, an upper set of contacts secured to certain of the binding posts, a lower set of contacts, fastening devices extending through said casing and supporting the lower set of contacts, a rotary contact within the casing, conductor bars arranged on the inner side of the casing and connecting the lower contacts to certain of said binding posts, said conductor bars being supported by said fastening devices and certain of said binding posts, and an insulating strip extending about the casing and having its ends secured to said fastening devices.

1,349,524. ALIMENTARY PASTE. CARL S. MINER, Chicago, Ill., assignor to Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed July 9, 1920. Serial No. 394,902. 8 Claims. (Cl. 99—10.)

3. In a food product comprising a cereal, a whole milk powder having a fat constituent and a skim milk powder, the method of preventing rancidity in said product which consists in so proportioning and admixing the various constituents of said product that said fat constituent is substantially covered by said cereal to form a protective envelopment therefor.

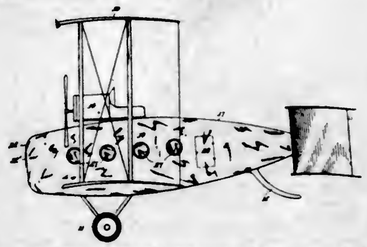
1,349,525. AUTOMATIC TRAIN-STOP. ALBERT L. NEWMAN, Memphis, Tenn. Filed July 22, 1919. Serial No. 312,566. 2 Claims. (Cl. 246—171.)



1. In a valve adapted to be applied to a car truck and to be connected with an air brake, the combination with a bracket supported on said truck, a plug detachably and revolubly mounted on said bracket and having a transverse

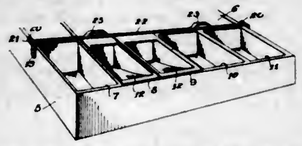
port, said bracket having a pair of ports contiguous to said plug, said pair of ports being brought into and out of communication with the port of said plug by the turning movement of the latter, a perforated plug fitted to the bracket and having its perforation in communication with one of said pair of ports, and of less diameter than the same, a nipple fitted to the other one of said pair of ports, and means connecting the nipple to the train line pipe.

1,349,526. AEROPLANE-FUSELAGE. GREGORY NIEDBALA, Elkhart, Ind. Filed Jan. 27, 1920. Serial No. 354,385. 3 Claims. (Cl. 244—30.)



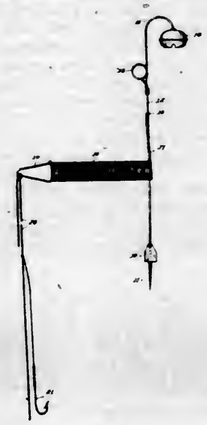
1. A fuselage for aeroplanes comprising inner and outer walls formed of interlaced wicker, and integrally formed interlaced wicker members extending between the inner and outer walls.

1,349,527. MOVABLE POCKET FOR REGISTERS. WILLIAM RAY OWEN, Utica, N. Y. Filed Oct. 31, 1919. Serial No. 334,805. 5 Claims. (Cl. 133—11.)



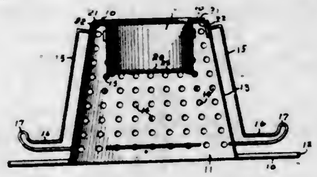
1. A cash drawer attachment comprising a plurality of detachable coin receptacles adapted to be arranged within the coin compartments of the drawer, outwardly directed flanges carried by said coin receptacles, and a retaining strip slidably mounted on the drawer for locking said receptacles in place.

1,349,528. FISHING-SIGNAL. STEPHEN OWSIAK, Chicago, Ill. Filed Nov. 18, 1919. Serial No. 338,911. 3 Claims. (Cl. 43—31.)



1. A fishing device comprising a mounting base, a flexible upright carried thereby, a flexible member upon the free end of the upright, an alarm bell at the free end of the flexible member, and a flexible and extensible fish line holder longitudinally adjustable upon said upright whereby the device may be set for actuating said bell by different strengths of pull exerted upon the line holder.

1,349,529. COMBINED TOASTER AND BOILER-SUPPORT. ABRAHAM C. PATTISON, Cumberland, Wis. Filed July 30, 1917. Serial No. 183,585. 7 Claims. (Cl. 53—5.)



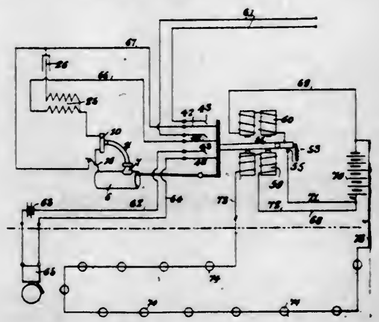
5. In a combined toaster and boiler, the combination of a base plate having a relatively large central opening, a body part mounted on the base plate, and extending upwardly therefrom and provided with perforations, in its sides, racks supported exteriorly upon the body, and a receptacle suspended in said body and projecting downwardly.

1,349,530. TREATMENT OF SOAPY LIQUORS. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, a Corporation of Delaware. Filed July 1, 1919. Serial No. 308,053. 11 Claims. (Cl. 87—6.)

1. The method of treating soapy liquors which comprises coagulating the soapy matter, removing the coagulated matter from the liquid by a flotation treatment, and treating the floated matter for the recovery of organic substances; substantially as described.

2. The method of treating waste liquors containing soapy or soap-making organic matter which comprises converting said matter into coagulated particles having selective attraction for gas bubbles, subjecting the liquor to the action of gas bubbles and entrapping the coagulated matter thereby and causing it to float by the buoyant action thereof, removing the floating matter from the liquid, and treating the floated matter for the recovery of organic substances therefrom; substantially as described.

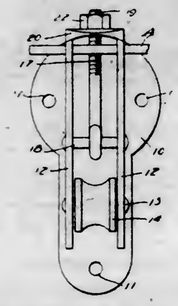
1,349,531. AUTOMATIC FIRE-ALARM. GEORGE B. RATTERMANN, Chicago, Ill., and WALTER W. GARRISON, Birmingham, Ala. Filed Nov. 5, 1917. Serial No. 200,421. 8 Claims. (Cl. 179—5.)



1. In an automatic fire alarm, a telephone unit for inclusion in an installed telephone circuit, phonographic means in constant acoustical connection with the telephone unit, driving means for the phonographic means, normally

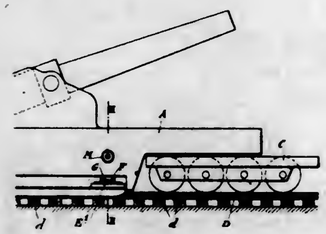
closed-circuit electrical means including a switch for controlling the phonographic means and the telephone unit to start the former and couple the latter into the telephone circuit on the rupture of the closed circuit, and other electro-magnetic means in operative relation to the switch, one electro-magnetic means holding the switch in one position when the closed circuit is intact and the other electro-magnetic means holding the switch in another position when the closed circuit is broken.

1,349,532. AWNING-FASTENER. ARCHIE C. ROSS, Atchison, Kans. Filed Apr. 6, 1920. Serial No. 371,570. 1 Claim. (Cl. 156—15.)



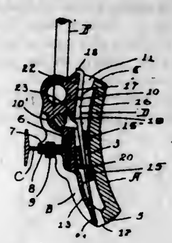
An awning fastener comprising a bracket including an attaching plate, a pair of spaced parallel plates extending from the face thereof and provided in their upper ends with alining recesses for the reception of the top rod of an awning, a rivet extending transversely through said plates adjacent their lower ends, a grooved pulley journaled on said rivet, a second rivet extending transversely through said spaced plate at their intermediate portions, a bolt having one end pivotally mounted on said second named rivet and having its other end threaded, a plate disposed upon said bolt and adapted to bridge the upper ends of said spaced plates to form a closure for the recesses therein, and a clamping nut threaded upon the upper end of said bolt and engageable with said last named plate.

1,349,533. CARRIAGE OF LARGE-CALIBER GUNS FIRING FROM RAILWAY-TRACKS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed June 16, 1919. Serial No. 304,649. 10 Claims. (Cl. 89—40.)



1. A railroad gun carriage provided with trucks for running on a railroad track, a gun mounted on said carriage to be fired therefrom, and a plurality of elongated shoes movably mounted longitudinally of said carriage and movable into position to engage the track sleepers to transmit thereto the forces of the gun recoils by sliding contact with said sleepers to relieve the truck wheels and axles of such forces.

1,349,534. BRAKE-HEAD. DAVID S. SCHWARTZ, St. Paul, Minn. Filed Sept. 13, 1918. Serial No. 253,942. Renewed Jan. 2, 1920. Serial No. 349,132. 1 Claim. (Cl. 188—243.)



A brake head, comprising, in combination, a brake shoe, a block upon which said shoe is adapted to be supported, said shoe and block being formed with projections having substantially alined openings and a key pin having a shank passing through said openings, said block being formed with a head having a flat face and with channels in its upper and lower end, which face each other to receive portions of said shoe, and said key having a body passed through said upper channel and formed with a flat face and forwardly projecting shoulders at the ends of said face which are adapted to engage said head with the faces on said key and head coinciding when said key is fully inserted in position to lock said shoe upon said head, said key having its lower end projecting into said lower channel and the projections on said head being arranged so as to bend the shank of said key to urge the key into tight interlocking engagement with said head.

1,349,535. CONE-SACK. HENRY W. SMITH, Washington, D. C. Filed Feb. 4, 1919. Serial No. 274,961. 1 Claim. (Cl. 229—6.)



A device of the class described comprising a paper bag of ordinary shape and a cone holder in the bottom of said bag, said holder comprising a central portion of rectangular shape having a cone receiving opening therein and a pair of frusto conical end members separated from said central member by scored lines, said end members being formed to fit the bottom portion of any ordinary paper bag, both of said end members being pasted to the bottom sides of the bag and said rectangular portion having a central scored line parallel with the first mentioned lines so as to permit the holder to collapse when the bag is in flattened condition.

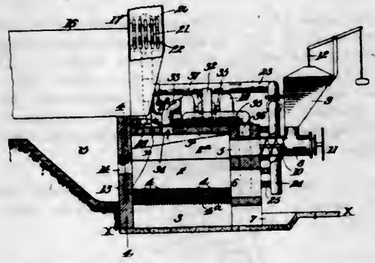
1,349,536. RULED PRINTING-FORM. ASHTON G. STEVENSON, New York, N. Y., assignor to Chicago Lino-Tabler Company, Chicago, Ill., a Corporation of Illinois. Filed May 6, 1918. Serial No. 232,682. 10 Claims. (Cl. 101—400.)



1. As a new article of manufacture, a type-form rule for application upon the level top surfaces of type-forms,

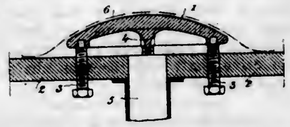
comprising a straight wire-like piece of metal, in cross section substantially as wide as it is high, and tapering at its top to a printing edge, its sides provided with thin knife-like, type-form-penetrating edges.

1,349,537. HEAT-GENERATING FURNACE. WALTER THOMAS and ALBERT EDWARD MAINWARING, Nanaimo, British Columbia, Canada, assignors to Fuel Conservation Company Limited, Vancouver, British Columbia, Canada, a Corporation of British Columbia, Canada. Filed Mar. 9, 1917. Serial No. 153,653. 4 Claims. (Cl. 110—31.)



1. In a heat generating furnace, the combination with a combined cooking and combustion chamber having a wider longitudinal lower part and a narrower longitudinal upper part, said parts having at their junction, on each side, an offset, thereby providing longitudinal gas channels along the body of fuel, and said upper part having a gas outlet in its roof, of a secondary combustion chamber, a transverse division wall having ports in line with said channels, flue connections from said gas outlet in the roof to the longitudinal channels, means in said connections for drawing hot gases and vapors from the fresh fuel and discharging them into said channels, and means for feeding fuel to the upper part of said first named chamber.

1,349,538. APPARATUS FOR AIRING OF STORED CORN. GUSTAF TROLLE-BONDE, Trolleholm, Sweden. Filed Nov. 19, 1919. Serial No. 339,171. 1 Claim. (Cl. 98—26.)



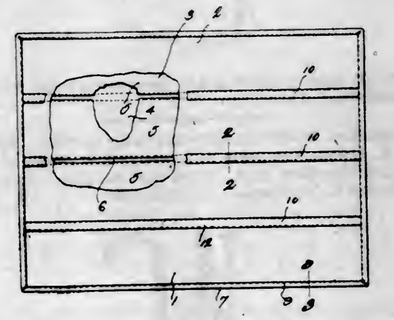
The combination with a corn or similar receptacle, having an air admission pipe leading there into, of a hood overlying the end of said pipe within the receptacle and having a cone shaped deflector arranged in line with and wholly beyond the pipe, and a plurality of elements connected with the hood immediately adjacent the free edge thereof and beyond the air pipe, said elements having threaded connection with the receptacle and being operable from beyond the receptacle.

1,349,539. PORTABLE ELECTRIC RIVET-HEATER. LOUIE T. WEIDRICK, Baltimore, Md. Filed Apr. 6, 1920. Serial No. 371,566. 2 Claims. (Cl. 204—64.)



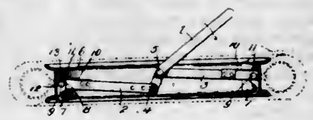
1. In a portable, rivet-heating furnace, having a heating chamber of L-shaped cross section, the bottom arm of the L forming a passage for inserting and removing the rivets, an electric heating means in the upright of the L, well above and out of alinement with said passage.

1,349,540. COMFORTER. FRANCILLA WHITNEY, Dorchester, Mass. Filed Aug. 16, 1918. Serial No. 250,216. 2 Claims. (Cl. 5—3.)



1. In a comforter, a succession of elongated narrow strips of paper placed transversely across the body of the comforter and having the edges thereof spaced apart, a layer of fabric placed beneath said succession of paper strips and being continuous over the entire body of the comforter, said fabric extending across the spaces left between the edges of said paper strips, a second piece of fabric placed in common over the succession of paper strips and passing across the spaces left between such strips, said paper strips adapted to exclude the free passage of air except at the spaces, reinforcing strips secured to the fabric and paper strips and bridging the spaces between said paper strips, and a reinforcement for the edges of the comforter secured alike to the fabric and paper strips for securing the same in assembled relation.

1,349,541. TIRE-RIM TOOL. FRANK L. WILLIS and HERBERT O. THOMAS, Santa Rosa, Calif. Filed June 21, 1919. Serial No. 305,743. 2 Claims. (Cl. 157—1.)

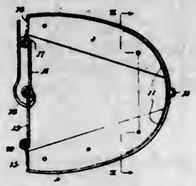


2. A rim spreading and contracting device including a pair of arms, means for moving the arms longitudinally, hooks having rectangular shanks horizontally pivoted to the arms at the outer portions of the same, and provided with bills adapted to be swung downwardly for positioning the upper longitudinal edges of said shanks flush with the outer terminals of the arms for forming wide rim contact surfaces, and flat leaf springs secured to the upper longitudinal edges of said arms and having their forward portions enlarged laterally for engaging the shanks of said hooks whereby the same are secured in position.

1,349,542. ICE-CREEPER. JOHN YANIK, Coplay, Pa. Filed Mar. 1, 1920. Serial No. 362,511. 1 Claim. (Cl. 36—64.)

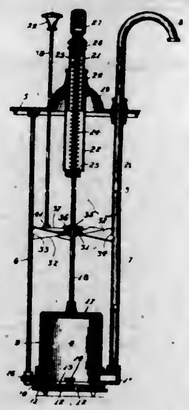
An ice-creeper comprising a pair of flanged side plates having ground engaging calks and hingedly connected together at their rear ends, means to yieldingly normally separate said plates at their forward ends, and means at

the forward ends of said plates to move the latter toward each other whereby the flanges of said plates are



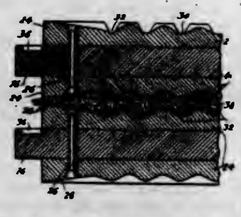
brought and retained firmly into engagement with the periphery of a shoe heel.

1,349,543. DISPENSING-PUMP AND MIXER. EDWARD M. ADAMS, New York, N. Y., assignor to Morris H. Petigor, New York, N. Y. Filed Apr. 29, 1919. Serial No. 293,434. 4 Claims. (Cl. 221—85.)



1. In combination with a dispensing pump comprising a cover plate, a pump cylinder, a pair of cylindrical members rigidly supporting the cover elevated some distance above the pump cylinder, a piston working in the pump cylinder, a piston rod for the piston projecting upward through the cover, a mixer guided to slide upon the piston rod up and down and independent of the piston rod movement, and a bar slidable through the cover and fast to said mixer at its lower end, whereby to move the mixer up and down independent of the movement of the piston and piston rod, said mixer being guided by said supporting members.

1,349,544. PRESS-PLATE. JOHN H. ANGEL, Minneapolis, Minn. Filed May 16, 1919. Serial No. 297,628. 3 Claims. (Cl. 100—54.)



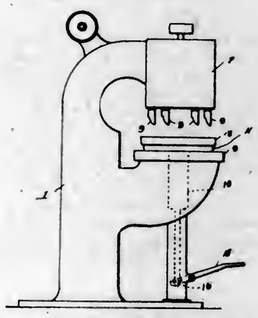
1. A press plate for expressing presses having its opposite faces provided with corrugations and its upper face outside of the corrugations provided with gutters connected by grooves with the depressions of the corrugations.

1,349,545. WASHBOILER ATTACHMENT. EDWARD BAK, East Stanwood, Wash. Filed Feb. 26, 1920. Serial No. 361,523. 3 Claims. (Cl. 68—30.)



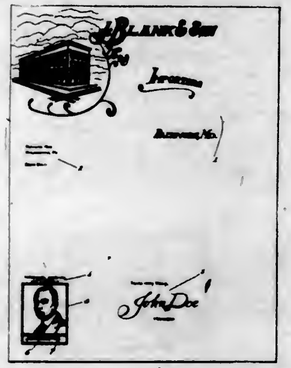
2. An extensible rack for use in wash boilers comprising two sections alike in form and dimensions shaped to fit together the interior of the boiler, means for slidably connecting the meeting ends of the sections for longitudinal adjustment of the rack, a horizontally disposed lever pivotally mounted on one of the sections, a link connecting the lever to the other section, and means for retaining the lever in locked position.

1,349,546. MULTIPLE-CUP MOLD. JAMES BENTON, East Palestine, Ohio. Filed Feb. 25, 1919. Serial No. 279,087. 4 Claims. (Cl. 25—26.)



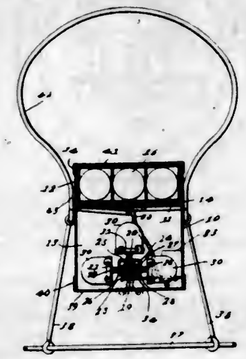
3. In a molding machine, a mold provided with a plurality of circularly arranged molding pockets, a drive shaft, a plurality of stub shafts disposed concentric with the drive shaft and in alinement with the respective pockets, forming tools carried by said stub shafts, the pockets being movable simultaneously into and out of operative relation to said tools, and driving connections between the drive shaft and the stub shafts for simultaneously rotating the latter.

1,349,547. CORRESPONDENCE-BLANK. CHARLES J. BOLGIANO, Baltimore, Md. Filed Apr. 7, 1919. Serial No. 288,431. 3 Claims. (Cl. 283—1.)



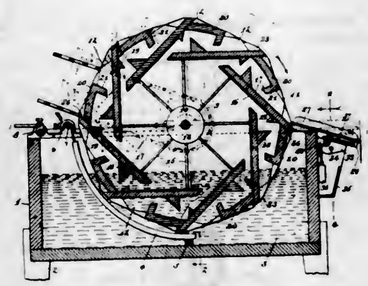
1. A letter-blank for use in business correspondence, advertising, soliciting, collecting and the like, having a suitable letterhead to indicate the nature of the business and a portrait separate from the letter sheet, affixed adjacent the point of signature, with an inscription near the portrait indicating that it is the portrait of the writer.

1,349,548. RAILROAD ELECTRIC LANTERN. HAROLD C. BRECKENRIDGE, Musselshell, Mont. Filed Aug. 16, 1919. Serial No. 318,012. 3 Claims. (Cl. 240—8.5.)



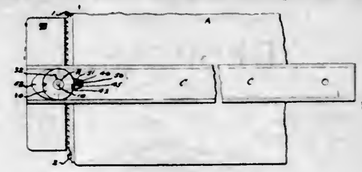
2. A lantern comprising a casing having an opening in one end thereof, a shaft mounted for rotation within the casing and disposed transversely of the opening, electric bulbs carried by and extending radially from the shaft and included in a normally opened circuit, means whereby the shaft may be rotated to project any one of the bulbs through said opening and combined means for closing the circuit when one of the bulbs is thus projected and for yieldingly holding the shaft against rotation.

1,349,549. ELECTROPLATING APPARATUS. WILLIAM DIETZEL, Merrick, N. Y. Filed Feb. 18, 1919. Serial No. 277,787. 9 Claims. (Cl. 204—5.)



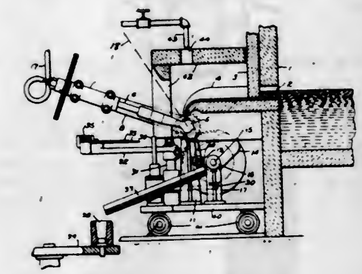
1. An electro-plating apparatus comprising a vat, an anode extending into said vat, a rotatable barrel arranged to have a part thereof extending into the vat so that the solution in the vat will enter the barrel, said barrel being formed with independent peripheral sections spaced apart for their full length for presenting openings uninterruptedly for the full length of the barrel through which some of said liquid will be scooped up and an equal amount discharged from the opposite side as the barrel is rotated whereby the solution rich in metals is brought into contact with the articles in the barrel, means for preventing articles in the barrel from falling out through said openings as the barrel rotates, and means connecting a source of current to said anode and to the contact members interiorly of the barrel.

1,349,550. DRAFTING INSTRUMENT. ANDREW E. MAGNUSON, New York, N. Y. Filed June 30, 1919. Serial No. 307,711. 12 Claims. (Cl. 33—81.)



1. A drafting implement comprising a T-square combined with a drawing board and including a carrier supported from the head of said T-square, a revoluble element sustained by said carrier, a member attached to said drawing board so as to be engaged by said element in a manner to produce a step by step movement thereof along said board, an index operatively connected with the element, and a graduated dial rotatably mounted on the carrier under said index, the arrangement being such that the index coacts with the graduations on the dial and the latter is adjustable relatively to the former.

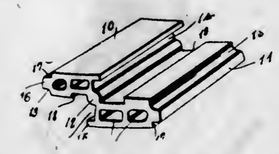
1,349,551. GLASS-FEEDING MACHINE AND PROCESS. KARL E. PEILER, Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y., a Corporation of New York. Filed Dec. 30, 1916. Serial No. 139,768. Renewed Jan. 2, 1920. Serial No. 349,094. 10 Claims. (Cl. 49—55.)



7. The combination with a container for molten glass having a discharge outlet, of supporting means beneath the outlet adapted to suspend discharged masses of the glass, and means for periodically tilting said supporting means to time the formation of suspended masses.

8. The method of separating molten glass into mold charges which consists in flowing the glass onto a support, periodically tilting the support to form successive gathers of the glass suspended from the support, and severing a mold charge from each gather.

1,349,552. SEGMENT-BLOCK. JOHN R. BAUMANN, Red Wing, Minn. Filed Apr. 6, 1918. Serial No. 227,093. 9 Claims. (Cl. 72—38.)

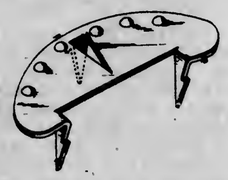


4. A building block having reversely positioned relatively offset members connected by a web, the proximate shoulders formed by the adjacent ends of the members being provided with depressions and the remote ends of the members with tongues to engage the corresponding

depressions of adjoining blocks, and the facing or inner side surfaces of said members having other shoulders facing or opposed to said recessed shoulders for engagement with the corresponding shoulders of said adjoining blocks.

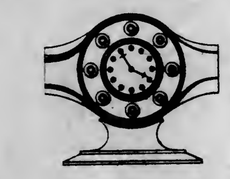
DESIGNS.

55,971. HEEL-PLATE. GEORGE BECHERER, St. Louis, Mo. Filed Dec. 19, 1917. Serial No. 207,977. Term of patent 3½ years.



The ornamental design for a heel plate substantially as shown.

55,972. CLOCK-CASE. PATSY BELOTT, Clarksburg, W. Va. Filed Nov. 13, 1919. Serial No. 337,864. Term of patent 14 years.





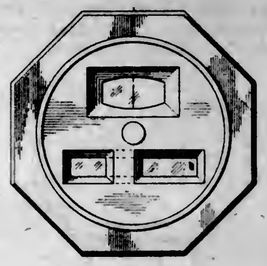
The ornamental design for a clock case, as shown and described.

55,973. PLUG-CLUSTER: REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 2, 1920. Serial No. 355,778. Term of patent 14 years.



The ornamental design for a plug cluster, substantially as shown.

55,974. SPEEDOMETER FACE-PLATE. JOSEPH BERGH, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Jan. 6, 1919. Serial No. 269,952. Term of patent 14 years.



The ornamental design for a speedometer face plate, as shown.

55,975. AIR-PUMP-NOZZLE CONNECTION. CECIL MURRAY BOYCE, Westcliff-on-Sea, England. Filed Nov. 8, 1919. Serial No. 336,767. Term of patent 7 years.



The ornamental design for an air pump nozzle connection as shown.

55,976. MOTION-PICTURE CAMERA OR THE LIKE. LLOYD BROWN, Los Angeles, Calif., assignor to Silent Drama Syndicate, a Trusteeship, Lloyd Brown and Alexander Graydon, trustees. Filed Dec. 1, 1919. Serial No. 341,820. Term of patent 14 years.



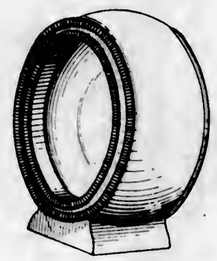
The ornamental design for a motion picture camera or the like, as shown.

55,977. SUPPORTING-FRAME FOR MOTION-PICTURE MACHINES. LLOYD BROWN, Los Angeles, Calif., assignor to Silent Drama Syndicate, a Trusteeship, Lloyd Brown and Alexander Graydon, trustees. Filed Dec. 19, 1919. Serial No. 346,189. Term of patent 14 years.



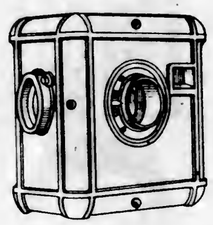
The ornamental design for a supporting frame for motion picture machines, as shown.

55,978. CAMERA-CASE. LLOYD BROWN, Los Angeles, Calif., assignor to Silent Drama Syndicate, a Trusteeship, Lloyd Brown and Alexander Graydon, trustees. Filed Dec. 19, 1919. Serial No. 346,190. Term of patent 14 years.



The ornamental design for a camera case, as shown.

55,979. MAGAZINE FOR MOTION-PICTURE MACHINES. LLOYD BROWN, Los Angeles, Calif., assignor to Silent Drama Syndicate, a Trusteeship, Lloyd Brown and Alexander Graydon, trustees. Filed Dec. 19, 1919. Serial No. 346,191. Term of patent 14 years.



The ornamental design for a magazine for motion picture machines, as shown.

55,980. SWIVEL-CASTER. JOHN LOUCIEN CHESTNUTT, Kansas City, Mo., assignor to The Service Caster & Truck Company, Kansas City, Mo., a Corporation of Missouri. Filed Apr. 12, 1919. Serial No. 289,748. Term of patent 14 years.





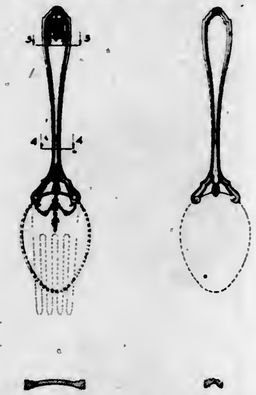
The ornamental design for a swivel caster, as shown.

55,981. ORNAMENTAL FIGURE FOR RADIATOR-CAPS OF AUTOMOBILES. GEORGE F. COLE, Oakland, Calif., assignor of three-eighths to Joseph G. McCall, Oakland, Calif. Filed Dec. 20, 1917. Serial No. 208,184. Term of patent 3½ years.



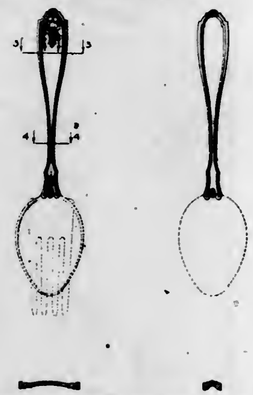
The ornamental design for an ornamental figure for radiator-caps of automobiles, as shown

55,982. HANDLE FOR A SPOON, FORK, OR SIMILAR ARTICLE. GILBERT L. CROWELL, Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y., a Joint-Stock Company. Filed Jan. 8, 1920. Serial No. 350,222. Term of patent 14 years.



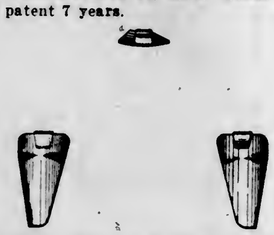
The ornamental design for a handle for a spoon, fork, or similar article as shown.

55,983. HANDLE FOR A SPOON, FORK, OR SIMILAR ARTICLE. GILBERT L. CROWELL, Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y., a Joint-Stock Company. Filed Jan. 8, 1920. Serial No. 350,223. Term of patent 14 years.



The ornamental design for a handle for a spoon, fork, or similar article as shown.

55,984. CAN-OPENER. WILLIAM R. DELL, Philadelphia, Pa., assignor of one-half to Albert Dell, Philadelphia, Pa. Filed Dec. 23, 1919. Serial No. 347,021. Term of patent 7 years.



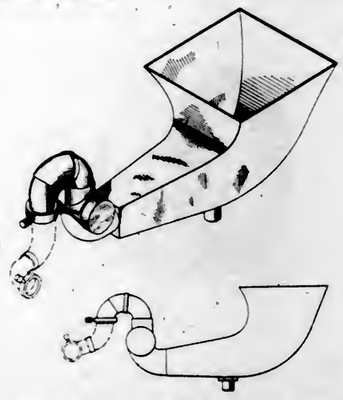
The ornamental design for a can opener as shown.

55,985. LABEL FOR POISON-BOTTLES. WILLIAM E. DE RICHELIEU and AUREA D. WAGNER, Philadelphia, Pa. Filed Dec. 9, 1918. Serial No. 266,000. Term of patent 14 years.



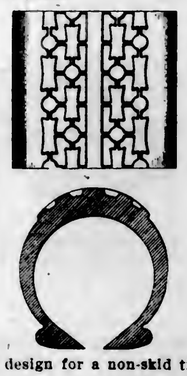
The ornamental design for a label for poison-bottles, as shown.

55,986. SOUND-CONDUCTING DEVICE FOR TALKING-MACHINES. DONATO DI CARLO, Philadelphia, Pa. Filed June 17, 1920. Serial No. 389,768. Term of patent 14 years.



The ornamental design for a sound conducting device for talking machines, as shown.

55,987. NON-SKID TIRE. WILLIAM E. DUERSTEN, New Castle, Pa. Filed Dec. 4, 1919. Serial No. 342,560. Term of patent 14 years.



The ornamental design for a non-skid tire as shown.

55,988. BOTTLE. JOHN L. DUNNOCK, Baltimore, Md., assignor to Compania Nacional de Perfumeria, Habana, Cuba. Filed Jan. 12, 1920. Serial No. 351,057. Term of patent 7 years.



The ornamental design for a bottle, as shown.

55,989. TALKING-MACHINE CABINET. CHARLES L. ELMQUIST, St. Paul, Minn. Filed June 23, 1919. Serial No. 306,276. Term of patent 14 years.



The ornamental design for a talking machine cabinet as shown.

55,990. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,026. Term of patent 3½ years.



The ornamental design for a woman's blouse, as shown.

55,991. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,027. Term of patent 3½ years.



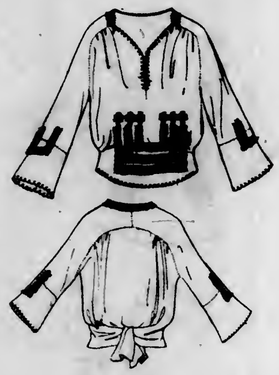
The ornamental design for a woman's blouse, as shown.

55,992. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,028. Term of patent 3½ years.



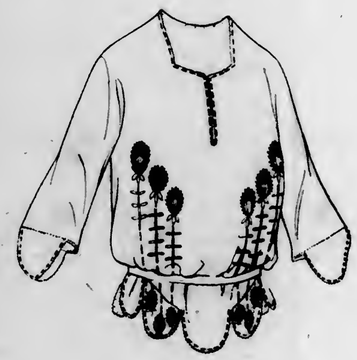
The ornamental design for a woman's blouse, as shown.

55,993. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,029. Term of patent 3½ years.



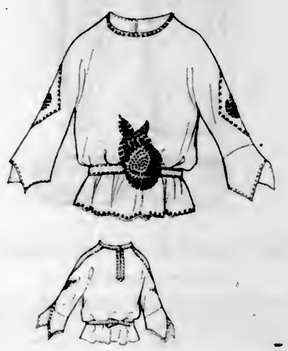
The ornamental design for a woman's blouse, as shown.

55,994. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,031. Term of patent 3½ years.



The ornamental design for a woman's blouse, as shown.

55,995. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,033. Term of patent 3½ years.



The ornamental design for a woman's blouse, as shown.

55,996. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,034. Term of patent 3½ years.



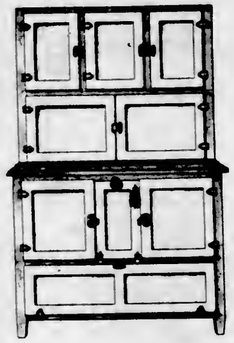
The ornamental design for a woman's blouse, as shown.

55,997. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,036. Term of patent 3½ years.



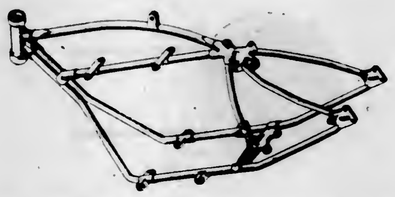
The ornamental design for a woman's blouse, as shown.

55,998. COMBINED CABINET AND REFRIGERATOR. THOMAS CHRISTOPHER FLEMING, deceased, Vancouver, British Columbia, Canada, by Cordelia Delphine Fleming, administratrix, Vancouver, Canada. Filed Sept. 20, 1919. Serial No. 325,258. Term of patent 3½ years.



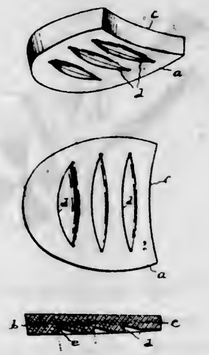
The ornamental design for a combined cabinet and refrigerator, substantially as shown.

55,999. MOTORCYCLE-FRAME. CHARLES BAYLY FRANKLIN, Springfield, Mass., assignor to Hendee Manufacturing Co., Springfield, Mass., a Corporation of Massachusetts. Filed June 21, 1920. Serial No. 390,665. Term of patent 14 years.



The ornamental design for a motorcycle frame, as shown.

56,000. RUBBER HEEL. SAMUEL B. FREDERICK, Detroit, Mich. Filed Jan. 5, 1920. Serial No. 349,616. Term of patent 14 years.



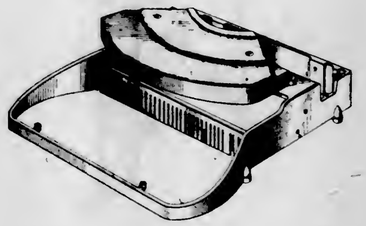
The ornamental design for a rubber heel as shown and described.

56,001. MOVABLE MEMBER OF A TALKING-BOARD. WILLIAM FULD, Baltimore, Md. Filed Apr. 15, 1919. Serial No. 290,344. Term of patent 14 years.



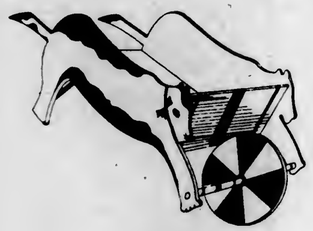
The ornamental design for the movable member of a talking board, as shown.

56,002. FRAME FOR TYPEWRITING-MACHINES. MAX GARBELL, Chicago, Ill. Filed Jan. 19, 1920. Serial No. 352,623. Term of patent 14 years.



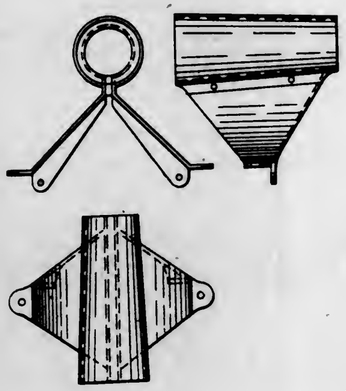
The original design for a frame for typewriting machines, as shown.

56,003. TOY WHEELBARROW. EPHRAIM GILLAM, Columbus, Ohio. Filed June 5, 1919. Serial No. 302,071. Term of patent 3½ years.



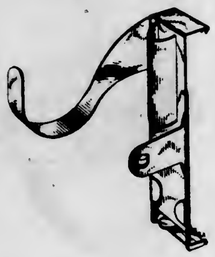
The ornamental design for a toy wheelbarrow, as shown.

56,004. SLEIGH-KNEE. FRANCIS G. HINEGARDNER and DAVID W. BOWMAN, Toledo, Iowa. Filed May 20, 1920. Serial No. 382,990. Term of patent 14 years.



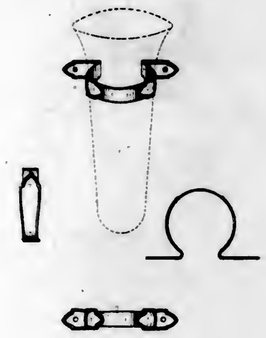
The ornamental design for a sleigh knee, as shown.

56,005. CURTAIN-POLE HOLDER. MARYAN JASIEWSKI, Bethlehem, Pa. Filed Oct. 27, 1919. Serial No. 333,847. Term of patent 7 years.



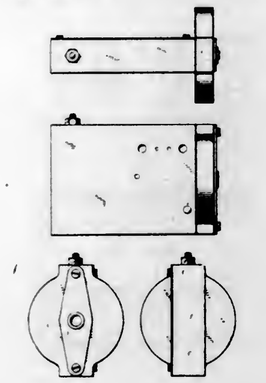
The ornamental design for a curtain pole holder, as shown.

56,006. AUTOMOBILE VASE-HOLDER. WILLIAM KENNER, Seattle, Wash. Filed Oct. 27, 1919. Serial No. 333,853. Term of patent 3½ years.



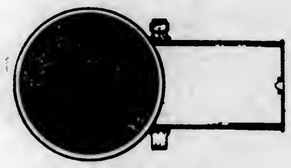
The ornamental design for an automobile vase-holder, as shown.

56,007. CONTROLLER. GEORGE A. KNAAK, Milwaukee, Wis. Filed Nov. 28, 1919. Serial No. 341,318. Term of patent 14 years.



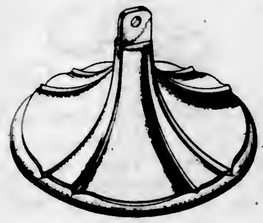
The ornamental design for a controller substantially as shown.

56,008. AUTOMOBILIST'S HAND-SIGNAL. WESLEY W. KUHLMANN, Woodcliff-on-Hudson, N. J. Filed Mar. 29, 1920. Serial No. 369,754. Term of patent 7 years.



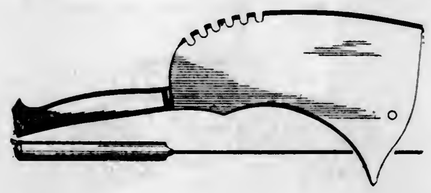
The ornamental design for an automobilist's hand signal.

56,009. BASE FOR A STAND OF AN ELECTRIC HEATER. RICHARD G. LEDIG, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1919. Serial No. 346,800. Term of patent 7 years.



The ornamental design for the base for a stand of an electric heater, as shown.

56,010. COMBINATION CLEAVER, PERFORATOR, AND ICE-PICK. JOHN H. LICKERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Feb. 9, 1920. Serial No. 357,367. Term of patent 14 years.



The ornamental design for a combination cleaver, perforator, and ice pick, as shown.

56,011. HOUSEHOLD KNIFE. JOHN H. LICKERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Feb. 9, 1920. Serial No. 357,368. Term of patent 14 years.



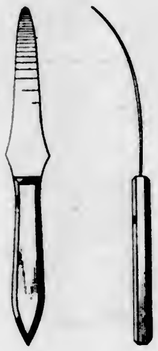
The ornamental design for a household knife, as shown.

56,012. BREAD-KNIFE. JOHN H. LICKERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Feb. 9, 1920. Serial No. 357,369. Term of patent 14 years.



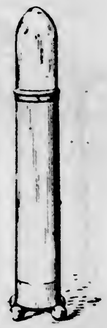
The ornamental design for a bread knife, as shown.

56,013. ARCING-KNIFE. JOHN H. LICKERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Feb. 9, 1920. Serial No. 357,371. Term of patent 14 years.



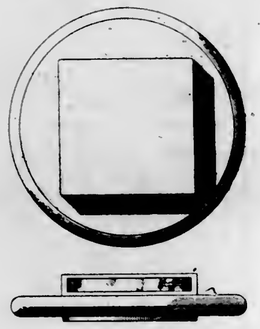
The ornamental design for an arcing knife as shown.

56,014. LAMP. WILFRID LUMLEY, Conneaut, Ohio, assignor to Conneaut Metal Works, Conneaut, Ohio, a Partnership consisting of Wilfrid Lumley and Heckert L. Parker. Filed May 4, 1917. Serial No. 166,485. Term of patent 7 years.



The ornamental design for a lamp, substantially as shown.

56,015. MANHOLE-COVER. NEAL J. MCKEON, Oakland, Calif. Filed Aug. 23, 1919. Serial No. 319,500. Term of patent 14 years.



The ornamental design of a manhole cover as shown.

56,016. PACKAGE-TIE. OTTO L. MEATZ, Chicago, Ill., assignor to Jules Herbert Benjamin, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 375,172. Term of patent 14 years.



The ornamental design for a package tie, as shown.

56,017. PACKAGE-TIE. OTTO L. MEETZ, Chicago, Ill., assignor to Jules Herbert Benjamin, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 375,173. Term of patent 14 years.



The ornamental design for a package tie, as shown.

56,018. PACKAGE-TIE. OTTO L. MEETZ, Chicago, Ill., assignor to Jules Herbert Benjamin, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 375,174. Term of patent 14 years.



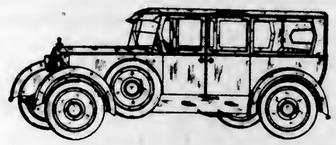
The ornamental design for a package tie, as shown.

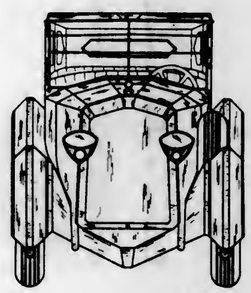
56,019. AUTOMOBILE. DONN H. MONTGOMERY, Denver, Colo. Filed May 10, 1920. Serial No. 380,419. Term of patent 14 years.



The ornamental design for an automobile, as shown.

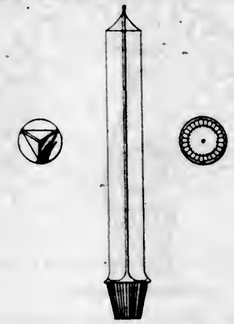
56,020. AUTOMOBILE. DONN H. MONTGOMERY, Denver, Colo. Filed May 10, 1920. Serial No. 380,420. Term of patent 14 years.





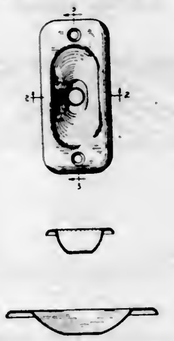
The ornamental design for an automobile, as shown.

56,021. CANDLE. GEORGE A. MOYER, Syracuse, N. Y., assignor to The Cleveland Candle Company, Cleveland, N. Y., a Firm. Filed May 18, 1920. Serial No. 382,410. Term of patent 14 years.



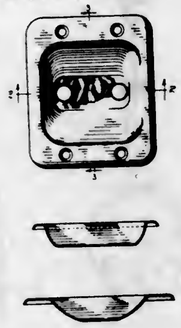
The ornamental design for a candle, as shown.

56,022. TOGGLE SWITCH-PLATE. WILLIAM J. NEWTON, Bridgeport, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 6, 1919. Serial No. 336,220. Term of patent 14 years.



An ornamental design for a toggle switch plate, as shown.

56,023. DOUBLE-TOGGLE SWITCH-PLATE. WILLIAM J. NEWTON, Bridgeport, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 6, 1919. Serial No. 336,221. Term of patent 14 years.



An ornamental design for a double toggle switch plate, as shown.

56,024. PIN. MARIUS NIELSEN, Granville, Ohio. Filed June 19, 1920. Serial No. 390,260. Term of patent 14 years.



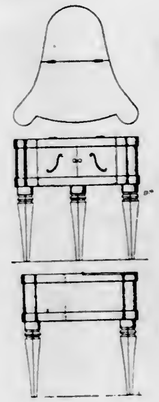
The ornamental design for a pin as shown.

56,025. MIRROR. STANLEY T. NOWACKI, Marlin, Tex. Filed Oct. 29, 1919. Serial No. 334,353. Term of patent 14 years.



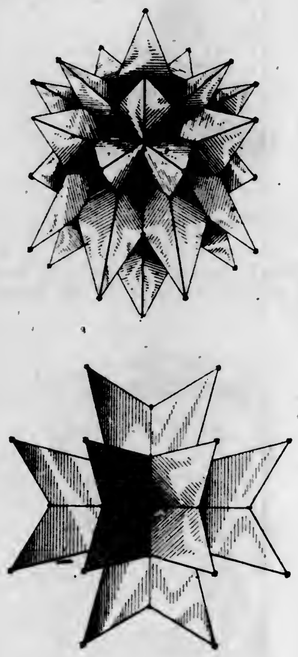
The ornamental design for a mirror as shown.

56,026. PHONOGRAPH-CASING. SIGRID L. M. PEARSON, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,776. Term of patent 14 years.



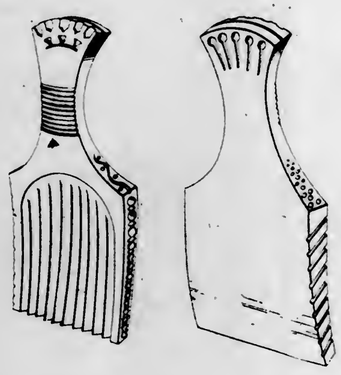
The ornamental design for a phonograph casing, as shown.

56,027. JEWELRY-BOX. WLADYSLAW POLASKY, Detroit, Mich. Filed Apr. 17, 1920. Serial No. 374,763. Term of patent 7 years.



The ornamental design for a jewelry box, as shown.

56,028. COMBINED BUTTER LADLE AND PRINT. GRACE PRICE, Mount Airy, Va. Filed Mar. 27, 1920. Serial No. 369,449. Term of patent 7 years.



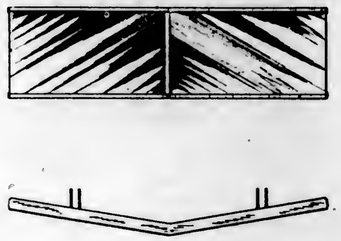
The ornamental design for a combined butter ladle and print, substantially as shown.

56,029. BOTTLE OR SIMILAR ARTICLE. JAMES L. QUIGG, Richmond, Va., assignor to C. F. Sauer Company, Richmond, Va., a Corporation of Virginia. Filed Jan. 17, 1920. Serial No. 352,220. Term of patent 14 years.



The ornamental design for a bottle or similar article, as shown.

56,030. REAR-SIGHT MIRROR FOR MOTOR-VEHICLES. FRANK W. REES, Seattle, Wash., assignor to Sees-All Manufacturing Company, Seattle, Wash. Filed June 4, 1920. Serial No. 386,604. Term of patent 14 years.



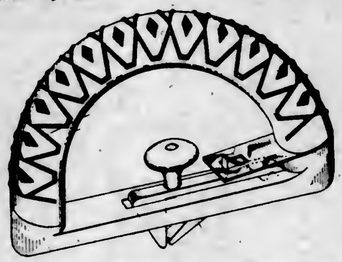
The ornamental design for a rear sight mirror for motor vehicles as shown.

56,031. LIGHTING-FIXTURE. NATHANIEL B. ROGERS, Danbury, Conn. Filed Apr. 19, 1920. Serial No. 375,182. Term of patent 7 years.



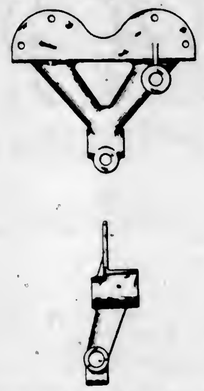
The original design for a lighting fixture, as shown.

56,032. SADIRON-HANDLE. FRANK ROSOSCEUK, Albany, N. Y. Filed Feb. 18, 1920. Serial No. 358,397. Term of patent 7 years.



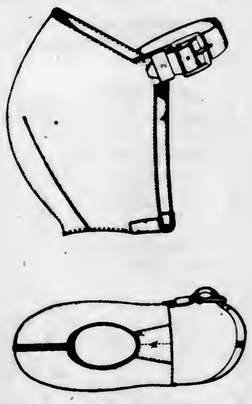
The ornamental design for a sadiron handle, as shown.

56,033. COMBINATION SPRING-HANGER AND RADIUS-ROD BRACKET. FRANK P. SAWDERS and JAMES G. MURRAY, Pittsburgh, Pa. Filed Dec. 2, 1919. Serial No. 342,038. Term of patent 14 years.



The ornamental design for a combination spring hanger and radius rod bracket, as shown.

56,034. SHOE-HEEL PROTECTOR. IDA M. SNYDER, Louisville, Ky. Filed Mar. 23, 1920. Serial No. 368,148. Term of patent 7 years.



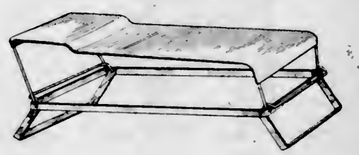
The ornamental design for a shoe heel protector as shown and described.

56,035. COVER FOR A PHONOGRAPH-CASE. FERDINAND L. STEGER, Steger, Ill., assignor to Steger & Sons Piano Manufacturing Company, Steger, Ill., a Corporation of Illinois. Filed Sept. 6, 1919. Serial No. 332,202. Term of patent 7 years.



The ornamental design for a cover for a phonograph case substantially as shown.

56,036. INFANT'S BATH-COT. MASAYOSHI TAKEUCHI, Seattle, Wash. Filed Oct. 4, 1919. Serial No. 328,601. Term of patent 14 years.



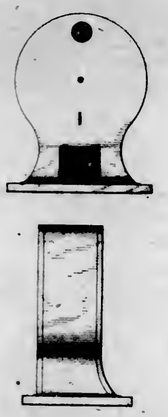
The ornamental design for an infant's bath cot, as shown.

56,037. CAP-COVER. PERLEY G. TILTON, Boston, Mass. Filed Jan. 22, 1920. Serial No. 353,358. Term of patent 14 years.



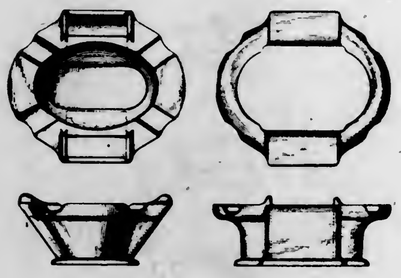
The ornamental design for a cap cover as shown.

56,038. VENDING-MACHINE CASE. HENRY C. TRAUTE, Fairhaven, N. J., assignor to The Diamond Match Company, Chicago, Ill. a Corporation of Illinois. Filed May 10, 1919. Serial No. 296,247. Term of patent 14 years.



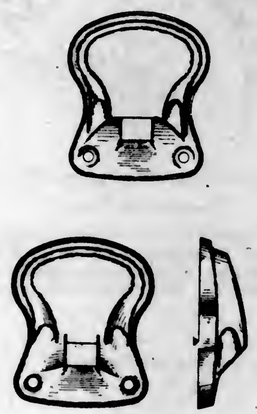
The ornamental design for a vending machine case, substantially as shown.

56,039. COMBINED MATCH-HOLDER AND ASH-RECEPTACLE. HENRY C. TRAUTE, Fairhaven, N. J., assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed May 29, 1919. Serial No. 300,747. Term of patent 14 years.



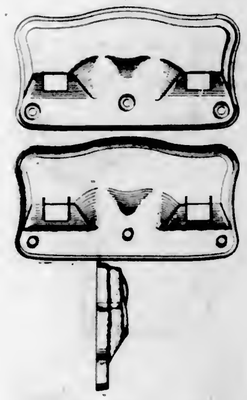
The ornamental design for a combined match-holder and ash-receptacle, substantially as shown

56,040. CASKET-BAR BRACKET OR LUG. BROR A. UTTER, Chicago, Ill. Filed May 12, 1919. Serial No. 296,705. Term of patent 3½ years.



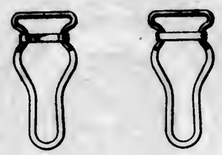
The ornamental design for a casket bar bracket or lug, as shown.

56,041. CASKET-BAR BRACKET OR LUG. BROR A. UTTER, Chicago, Ill. Filed May 12, 1919. Serial No. 296,706. Term of patent 3½ years.



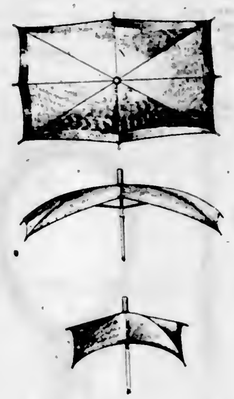
The ornamental design for a casket bar bracket or lug, as shown.

56,042. HOSE-SUPPORTING LOOP. DE VER H. WARNER, Bridgeport, Conn., assignor to The Warner Brothers Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 13, 1920. Serial No. 351,266. Term of patent 14 years.



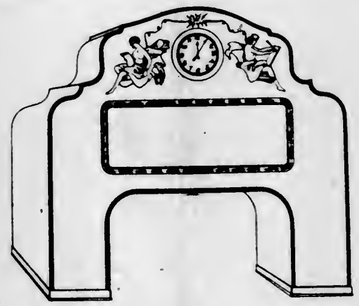
The ornamental design for a hose supporting loop as shown.

56,043. PARASOL OR UMBRELLA. ISAAC H. WEINBERG and CHARLES F. BISBING, New York, N. Y. Filed Apr. 3, 1920. Serial No. 371,165. Term of patent 7 years.



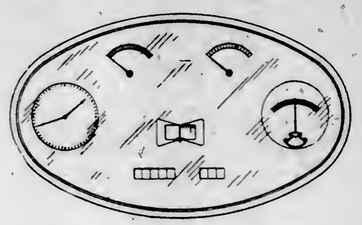
The ornamental design for a parasol or umbrella, as shown.

56,044. BILL-BOARD ARCH. WELLINGTON B. WHEELER, El Segundo, Calif. Filed May 11, 1920. Serial No. 380,669. Term of patent 3½ years.



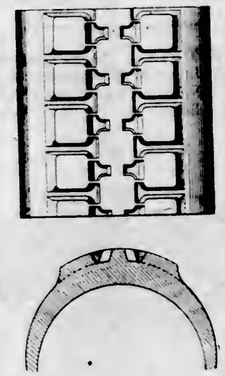
The ornamental design for a bill board arch as shown.

56,045. INSTRUMENT-DIAL. D'ORSAY MCCALL WHITE, Indianapolis, Ind., assignor to La Fayette Motors Company, a Corporation of Delaware. Filed Dec. 13, 1919. Serial No. 344,600. Term of patent 7 years.



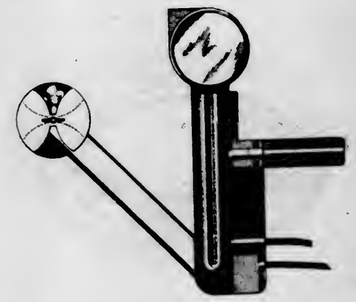
The ornamental design for an instrument dial, as shown.

56,046. TIRE. WILLIAM W. WILDMAN, Detroit, Mich., assignor to The Wildman Rubber Company, Detroit, Mich., a Corporation of Delaware. Filed Apr. 21, 1920. Serial No. 375,629. Term of patent 14 years.



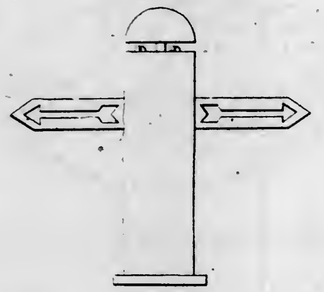
The ornamental design for a tire, as shown.

56,047. AUTOMOBILE DIRECTION-SIGNAL. VICTOR R. WILL, Lodi, Calif., assignor to P-A-T-S Manufacturing Company, Lodi, Calif., a Corporation. Filed Feb. 16, 1920. Serial No. 359,187. Term of patent 14 years.



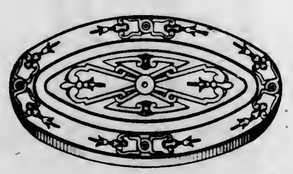
The ornamental design for an automobile direction signal as shown.

56,048. AUTOMOBILE DIRECTION AND STOP SIGNAL. JOHN F. ANDERSON, San Francisco, Calif. Filed Sept. 30, 1918. Serial No. 327,606. Term of patent 14 years.



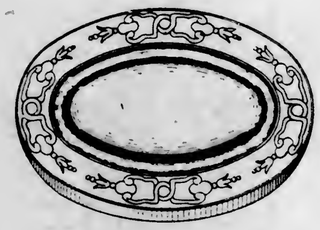
The ornamental design for an automobile direction and stop signal as herein shown and described.

56,049. BRACKET-OVAL. HARRY COHN, Brooklyn, N. Y., assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 8, 1920. Serial No. 372,355. Term of patent 7 years.



The ornamental design for a bracket oval, as shown.

56,050. LIGHTING-FIXTURE OVAL PLATE. HARRY COHN, Brooklyn, N. Y., assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 8, 1920. Serial No. 372,356. Term of patent 7 years.



The ornamental design for a lighting fixture oval plate, as shown.

56,051. LIGHTING-FIXTURE SHOWER-PLATE. HARRY COHN, Brooklyn, N. Y., assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 8, 1920. Serial No. 372,357. Term of patent 7 years.



The ornamental design for a lighting fixture shower plate, as shown.

56,052. WALL-PLATE FOR LIGHTING-FIXTURES. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 29, 1920. Serial No. 354,933. Term of patent 7 years.



The ornamental design for a wall plate for lighting fixtures, as shown.

56,053. FURNITURE-LEG. HERMAN E. DE VRIES and CARL C. KUSTERER, Grand Rapids, Mich. Filed Dec. 13, 1919. Serial No. 344,598. Term of patent 3½ years.



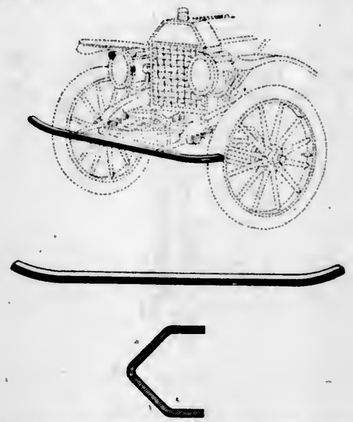
The ornamental design for a furniture leg, as shown.

56,054. PICK. ANDREW DLACICH, Columbus, Ohio. Filed Jan. 14, 1920. Serial No. 351,484. Term of patent 7 years.



The ornamental design for a pick, as shown.

56,055. AUTOMOBILE-BUMPER. FREDERICK R. EAGLESFIELD, Niles, Mich., assignor to Kawneer Manufacturing Company, Niles, Mich., a Corporation of Michigan. Filed Jan. 21, 1916. Serial No. 73,480. Term of patent 14 years.



The ornamental design for an automobile bumper, substantially as shown.

56,056. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,030. Term of patent 3½ years.



The ornamental design for a woman's blouse, as shown.

56,057. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,037. Term of patent 3½ years.



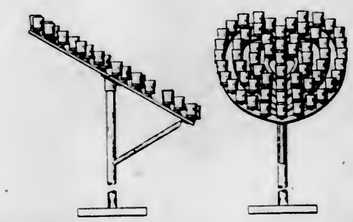
The ornamental design for a woman's blouse, as shown.

56,058. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1920. Serial No. 390,039. Term of patent 3½ years.



The ornamental design for a woman's blouse, as shown.

56,059. VOTIVE-STAND. MARTIN A. FLANNERY, Boston, Mass., assignor to The Will & Baumer Company, Syracuse, N. Y., a Corporation of New York. Filed Apr. 15, 1920. Serial No. 374,237. Term of patent 14 years.



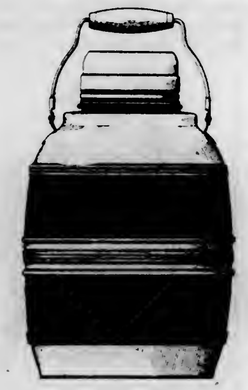
The ornamental design for a votive stand as shown.

56,060. EGG-TESTING APPLIANCE. ELI M. FRENCH, Chicago, Ill. Filed Oct. 24, 1919. Serial No. 338,133. Term of patent 7 years.



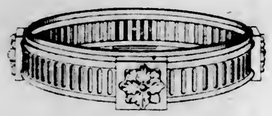
The ornamental design for an egg testing appliance, as shown.

56,061. HEAT-INSULATED RECEPTACLE. IRA L. FRENCH, Chicago, Ill., assignor to The Mantle Lamp Company of America, Chicago, Ill. Filed Oct. 29, 1919. Serial No. 334,366. Term of patent 14 years.



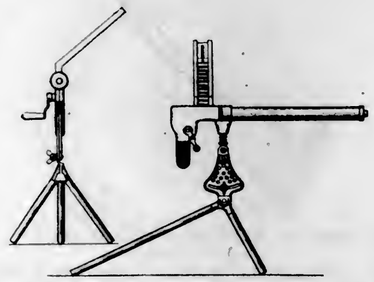
The ornamental design for a heat-insulated receptacle, as shown.

56,062. BAND FOR A LAMP-GLOBE. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 19, 1920. Serial No. 375,181. Term of patent 14 years.



The ornamental design for a band for a lamp globe as shown.

56,063. TOY MAGAZINE-GUN. BENJAMIN M. GRIFFITH, Pittsburgh, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 2, 1919. Serial No. 287,081. Term of patent 3½ years.



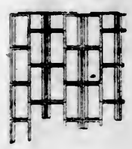
The ornamental design for a toy magazine gun, as shown.

56,064. PEN-HOLDING ATTACHMENT FOR INK-BOTTLES. JAMES J. HARPUR, Pittsburgh, Pa. Filed Dec. 5, 1919. Serial No. 342,853. Term of patent 7 years.



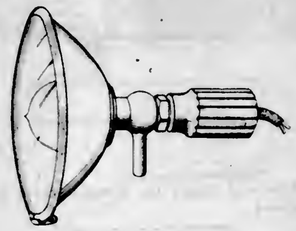
The ornamental design for a pen holding attachment for ink bottles as shown.

56,065. RADIATOR. JOHN A. HINGER, Detroit. Mich. Filed Aug. 22, 1919. Serial No. 319,279. Term of patent 14 years.



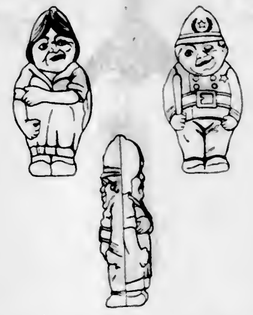
The ornamental design for a radiator, substantially as shown.

56,066. SPOT-LIGHT. EARL H. HOWARD, Los Angeles, Calif., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 5, 1920. Serial No. 349,612. Term of patent 7 years.



The ornamental design for a spot-light, as shown.

56,067. DOLL. FREDERICK KAUFMANN, Jr., Brooklyn, N. Y., assignor to The Faultless Rubber Company, Ashland, Ohio, a Corporation of Ohio. Filed Jan. 20, 1920. Serial No. 352,897. Term of patent 14 years.



The ornamental design for a doll, as shown.

56,068. SPINDLE FOR LIGHTING-FIXTURES. STEPHEN KOSTSZEWSKI, New York, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Apr. 15, 1920. Serial No. 374,241. Term of patent 7 years.



The ornamental design for a spindle for lighting fixtures, as shown.

56,069. BODY FOR LIGHTING-FIXTURES. STEPHEN KOSTSZEWSKI, New York, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Apr. 15, 1920. Serial No. 374,242. Term of patent 7 years.



The ornamental design for a body for lighting fixtures as shown.

56,070. PENNANT. LANCE S. CORSON, Colorado Springs, Colo. Filed Oct. 16, 1918. Serial No. 258,388. Term of patent 7 years.



The ornamental design for a pennant, as shown.

56,071. TIRE-COVER. PAUL M. LOCKWOOD, Kansas City, Mo. Filed Apr. 17, 1919. Serial No. 290,864. Term of patent 7 years.



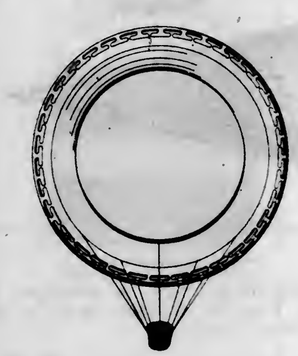
The ornamental design for a tire cover as shown and described.

56,072. PLAYING-CARD. HELENE V. A. LORING, Chicago, Ill. Filed Dec. 29, 1919. Serial No. 348,189. Term of patent 14 years.



The ornamental design for a playing card, as shown.

56,073. ADVERTISING AND TOY BALLOON. WILLIAM M. MADISON, Cleveland, Ohio. Filed Mar. 26, 1918. Serial No. 224,906. Term of patent 14 years.



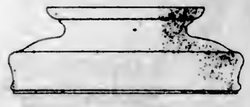
The ornamental design for an advertising and toy balloon, as shown.

56,074. GLOBE FOR A LIGHTING-FIXTURE. FREDERICK W. MATHIEU, New York, N. Y., assignor to Mitchell Vance Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 7, 1920. Serial No. 372,081. Term of patent 7 years.



The ornamental design for a globe for a lighting fixture, as shown.

56,075. HOLDER FOR A LIGHTING-FIXTURE. FREDERICK W. MATHIEU, New York, N. Y., assignor to Mitchell Vance Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 7, 1920. Serial No. 372,082. Term of patent 7 years.



The ornamental design for a holder for a lighting fixture, as shown.

56,076. ARM FOR LIGHTING-FIXTURES. ABRAHAM MILLER, New York, N. Y. Filed Apr. 17, 1920. Serial No. 374,758. Term of patent 3½ years.



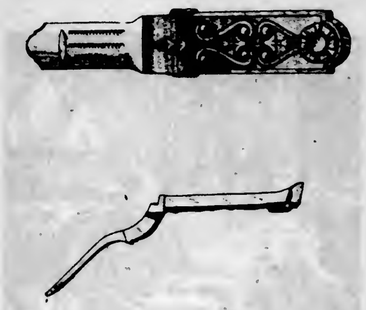
The ornamental design for an arm for lighting fixtures substantially as shown.

56,077. ARM FOR LIGHTING-FIXTURES. SAMUEL MILLER, New York, N. Y. Filed Mar. 31, 1920. Serial No. 370,346. Term of patent 3½ years.



The ornamental design for an arm for lighting fixtures substantially as shown.

56,078. ARM FOR LIGHTING-FIXTURES. SAMUEL MILLER, New York, N. Y. Filed Mar. 31, 1920. Serial No. 370,347. Term of patent 3½ years.



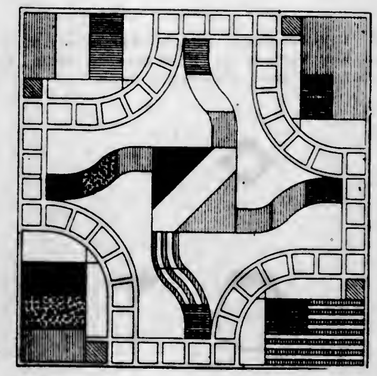
The ornamental design for an arm for lighting fixtures substantially as shown.

56,079. LIQUID-SOAP DISPENSER. EDGAR L. MORRIS, St. Louis, Mo., assignor to United States Sanitary Specialties Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 9, 1919. Serial No. 343,609. Term of patent 14 years.



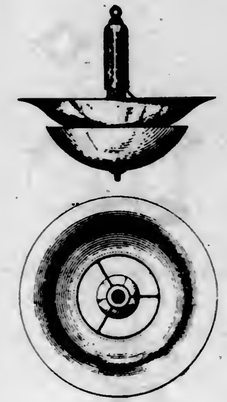
The ornamental design for a liquid soap dispenser, as shown.

56,080. GAME-BOARD. MAURICE PETERSON, New York, N. Y. Filed Apr. 5, 1920. Serial No. 371,488. Term of patent 7 years.



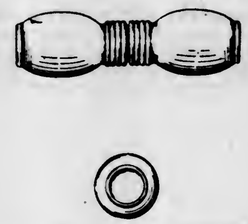
The ornamental design for a game board, as shown.

56,081. LIGHTING-FIXTURE. GROSVENOR P. ROBINSON, Summit, N. J. Filed Apr. 2, 1920. Serial No. 370,888. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

56,082. DUPLEX CONTAINER. JAMES H. SMITH, Rochester, N. Y., assignor to Smith-Junior Co., Inc., Rochester, N. Y., a Corporation of New York. Filed Apr. 12, 1920. Serial No. 373,395. Term of patent 14 years.



The ornamental design for a duplex container, as shown.

56,083. MEDAL OR BADGE. JENNIE HELLAMS SWEENY, Union, S. C. Filed May 3, 1920. Serial No. 378,698. Term of patent 14 years.



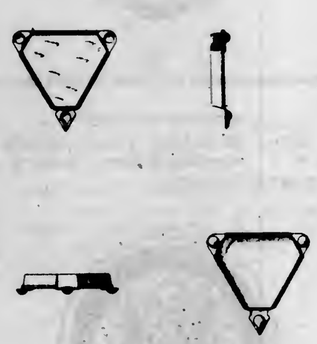
The ornamental design for a medal or badge, as shown.

56,084. OIL-CLOTH-DISPLAY STAND. MAX THOMSEN, Chicago, Ill., assignor to Adolph Copeland, Chicago, Ill. Filed May 13, 1919. Serial No. 296,944. Term of patent 7 years.



The ornamental design for an oil cloth display stand, as shown.

56,085. FINGER-REST AND POINTER FOR A GAME. JOHN VANDERKAMP, Cleveland, Ohio, assignor to The Goldsmith Publishing Company, Cleveland, Ohio. Filed Apr. 19, 1920. Serial No. 375,179. Term of patent 14 years.



The ornamental design for a finger rest and pointer for a game, as shown.

56,086. TEXTILE FABRIC FOR DECORATIVE PURPOSES. COULTON WAUGH, New York, N. Y. Filed Apr. 3, 1920. Serial No. 371,171. Term of patent 3½ years.



The ornamental design for a textile fabric for decorative purposes, as shown.

56,087. FINGER-RING. MORRIS WEINER and WILLIAM LOEB, New York, N. Y. Filed Mar. 22, 1920. Serial No. 367,865. Term of patent 3½ years.



The ornamental design for a finger ring, as shown.

56,088. FINGER-RING. MORRIS WEINER and WILLIAM LOEB, New York, N. Y. Filed Mar. 22, 1920. Serial No. 367,866. Term of patent 3½ years.



The ornamental design for a finger ring, as shown.

56,089. FINGER-RING. MORRIS WEINER and WILLIAM LOEB, New York, N. Y. Filed Mar. 22, 1920. Serial No. 367,867. Term of patent 3½ years.



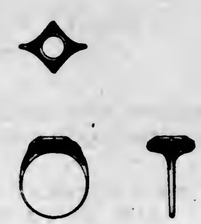
The ornamental design for a finger ring, as shown.

56,090. FINGER-RING. MORRIS WEINER and WILLIAM LOEB, New York, N. Y. Filed Mar. 22, 1920. Serial No. 367,868. Term of patent 3½ years.



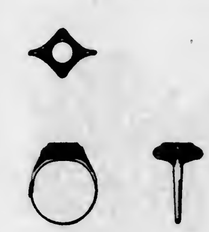
The ornamental design for a finger ring, as shown.

56,091. FINGER-RING. MORRIS WEINER and WILLIAM LOEB, New York, N. Y. Filed Mar. 22, 1920. Serial No. 367,869. Term of patent 3½ years.



The ornamental design for a finger ring, as shown.

56,092. FINGER-RING. MORRIS WEINER and WILLIAM LOEB, New York, N. Y. Filed Mar. 22, 1920. Serial No. 367,870. Term of patent 3½ years.



The ornamental design for a finger ring, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 10, 1920.

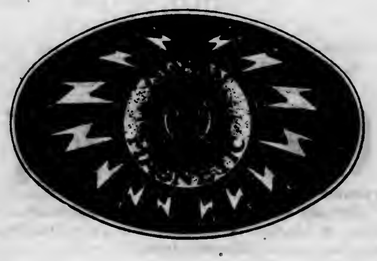
[PUBLISHED AUGUST 11, 1920.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 102,066. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE BAKER R. & L. COMPANY, Cleveland Ohio. Filed Mar. 12, 1917.



The outer portion of the figure is surrounded by an elliptical-shaped ring, which is white in color, which in turn surrounds an elliptical field of black. Within the black field the annulus containing the words "Owen Magnetic" is of a golden color, which annulus surrounds a central circular field, which is red in color.

Particular description of goods.—Automobiles.

Claims use since on or about Dec. 1, 1914.

Ser. No. 102,067. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE BAKER R. & L. COMPANY, Cleveland Ohio. Filed Mar. 12, 1917.



In the drawing the outer annulus, which contains the words "Owen Magnetic," is of a gold color, while the inner circular field is red in color.

Particular description of goods.—Automobiles.

Claims use since Dec. 1, 1914.

Ser. No. 104,071. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FIDELITY CHOCOLATE COMPANY, Boston, Mass. Filed May 25, 1917.



The words "Fidelity Chocolate Company" are disclaimed except with the other features of the mark.

Particular description of goods.—Chocolate Candies.

Claims use since Mar. 1, 1917.

Ser. No. 104,584. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KON. NED. MAATSCHAPPIJ TOT EXPLOITATIE VAN PETROLEUM BRONNEN IN NED. INDIE, The Hague, Netherlands. Filed June 21, 1917.

DRIALENE

Particular description of goods.—Turpentine and Turpentine Substitutes.

Claims use since Jan. 19, 1914.

Ser. No. 105,258. (CLASS 2. RECEPTACLES.) INTERNATIONAL MAILING TUBE AND WRAPPER CO., Brooklyn, N. Y. Filed July 25, 1917.



No claim is made to the legend "House of Mailing Devices" apart from the mark as shown on the drawing.

Particular description of goods.—Mailing-Tubes, Mailing-Bags, Mailing-Boxes, Collapsible Mailing-Boxes, Paper and Cardboard Mailing-Folders, Paper and Cardboard Mailing-Wrappers.

Claims use since May 1, 1917.

Ser. No. 108,763. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) M. WELTE & SONS, INC., Poughkeepsie and New York, N. Y., assignor to Welte-Mignon Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 1, 1918.

Autograph

Particular description of goods.—Pianos, Automatic Pianos, Player-Pianos, Piano-Players, and Automatic Expression Mechanisms for Self-Playing Pianos and Piano-Players.

Claims use since August, 1912.

Ser. No. 109,958. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) M. WELTE & SONS, INC., New York, N. Y., assignor to Welte-Mignon Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 3, 1918.

Welte Mignon

Particular description of goods.—Self-Playing Pianos and Piano-Players.

Claims use since 1905.

Ser. No. 110,499. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SHARP SPARK PLUG COMPANY, Cleveland, Ohio. Filed Apr. 27, 1918.

KOPPER KING

Particular description of goods.—Spark-Plugs for Internal-Combustion Engines.

Claims use since May 15, 1915.

Ser. No. 113,045. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HIJOS DE YBARRA, Seville, Spain. Filed Sept. 6, 1918.

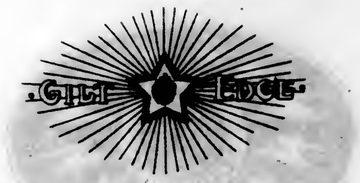
HIJOS DE YBARRA
MARCA Y REG^DA
SEVILLA

No claim being made to the exclusive use of the words "Hijos de Ybarra, Marca Regda Sevilla" except in association with the other features shown.

Particular description of goods.—Common Soap.

Claims use since June 5, 1918.

Ser. No. 113,115. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) BOSCH BREWING COMPANY, Lake Linden, Mich. Filed Sept. 11, 1918.



Particular description of goods.—A Non-Intoxicating Malt Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as a Soft Drink.

Claims use since December, 1899.

Ser. No. 115,293. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NEWSOM VALVE COMPANY, St. Louis, Mo. Filed Jan. 18, 1919.

SNAP LOX

Applicant makes no claim to the exclusive use of the mark "Snap Lox" except in the form shown in the drawing forming a part of this application.

Particular description of goods.—Dust-Caps for Pneumatic-Tire Valves.

Claims use since June 1, 1918.

Ser. No. 116,673. (CLASS 12. CONSTRUCTION MATERIALS.) THE ATLAS PORTLAND CEMENT COMPANY, Northampton, Pa., and New York, N. Y. Filed Mar. 18, 1919.

ATLAS AGGREGATE

No claim is made to the word "Aggregate" apart from the mark shown in the drawing.

Particular description of goods.—A Light-Weight Material Produced by Heating Argillaceous Matter to a Temperature at Which It Expands, Then Cooling and Crushing the Same, for Use in Making Light-Weight Concrete by Mixing the Same with Cement.

Claims use since January, 1919.

Ser. No. 118,611. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ROOT & COMPANY, Chicago, Ill. Filed May 17, 1919.

Marvelltone

Particular description of goods.—Phonographs, Graphophones, and Talking-Machines.

Claims use since Jan. 1, 1918.

Ser. No. 118,808. (CLASS 15. OILS AND GREASES.) SUN COMPANY, Philadelphia, Pa. Filed May 22, 1919.

SUN EMULSO

No claim is made to the word "Sun" apart from the mark shown in the drawing.

Particular description of goods.—Cutting and Lubricating Oils.

Claims use since about the year 1916.

Ser. No. 118,809. (CLASS 15. OILS AND GREASES.) SUN COMPANY, Philadelphia, Pa. Filed May 22, 1919.

EMULSO

Particular description of goods.—Cutting and Lubricating Oils.

Claims use since about the year 1916.

Ser. No. 118,923. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MOSSTWIN COMPANY, Boston, Mass. Filed May 26, 1919.

MOSSTWIN

Particular description of goods.—Snap-Fasteners.

Claims use since Apr. 2, 1918.

Ser. No. 118,924. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MOSSTWIN COMPANY, Boston, Mass. Filed May 26, 1919.



Showing two twin children.

Particular description of goods.—Snap-Fasteners.

Claims use since Mar. 15, 1918.

Ser. No. 119,909. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LEVER BROTHERS COMPANY, Cambridge, Mass. Filed June 24, 1919.



The background of the mark is indicated as being green and the lettering and lower panel yellow. No claim is made to the words "For the Family Laundry, Soak the Clothes That's All, No Rubbing—No Boiling" apart from the mark shown.

Particular description of goods.—Soap.

Claims use since June 18, 1919.

Ser. No. 120,116. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOSEPH A. MENARD, Seattle, Wash. Filed June 30, 1919.

TIMESAVER

Particular description of goods.—Grinding Compound for Bearings and Machine Parts.

Claims use since Mar. 10, 1919.

Ser. No. 120,426. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JOHN B. MARSHALL, Catonsville, Md. Filed July 10, 1919.

PROTECTO

Particular description of goods.—Catamenial Bandages.

Claims use since July 1, 1919.

Ser. No. 120,516. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) BARCO MANUFACTURING COMPANY, Chicago, Ill. Filed July 14, 1919.

BARCO

Particular description of goods.—Gaskets, Molded Gaskets, Asbestos Composition Gaskets, Rubber Composition Gaskets, Composite Asbestos and Rubber Gaskets, Metal-Faced Gaskets, Metal-Faced Asbestos Composition Gaskets, Metal-Faced Rubber Composition Gaskets, Metal-Faced Composite Asbestos and Rubber Gaskets.

Claims use since May 1, 1908.

Ser. No. 120,825. (CLASS 39. CLOTHING.) HERO SHIRT MANUFACTURING COMPANY, New York, N. Y. Filed July 23, 1919.

Hero

Particular description of goods.—Men's Negligée and Dress Shirts.
Claims use since May 23, 1919.

Ser. No. 121,126. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRINCE MACARONI MFG. CO., Boston, Mass. Filed July 30, 1919.

Prince

Particular description of goods.—Macaroni.
Claims use since Dec. 14, 1912.

Ser. No. 121,225. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN CLAYTON WALTERSDORFF, Menges Mills, Pa. Filed Aug. 2, 1919.



Comprising a background of a black pyramid resting on its base, containing the two syllables "Va" and "Nil" in white, one above the other, separated by the word "Clayton's" in red, which overlaps the background.
Particular description of goods.—Food-Flavoring Extracts.
Claims use since May 9, 1919.

Ser. No. 121,537. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SIDNEY S. MARX, San Diego, Calif. Filed Aug. 11, 1919.

KOMFY KAMPING

No claim being made to the exclusive use of the word "Kamping" apart from the mark as shown in the drawings.
Particular description of goods.—Camping-Trailers.
Claims use since Feb. 27, 1917.

Ser. No. 121,868. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y. Filed Aug. 21, 1919.



Particular description of goods.—Cakes, Wafers, and Crackers or Biscuits.
Claims use since Jan. 1, 1906.

Ser. No. 122,329. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BROCKWAY-SMITH CORPORATION, Boston, Mass. Filed Sept. 5, 1919.

JAPROID

The word "Japroid."
Particular description of goods.—Paint in Liquid or Paste Form for Exterior Application, Especially Adapted for Roofs, Metal-Work, Boats, Tanks, and the Like.
Claims use since January, 1916.

Ser. No. 122,356. (CLASS 15. OILS AND GREASES.) HYCO FUEL PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 5, 1919.



The upper division of the design being in green and spiked with two orange projections and the monad therein being in orange and black, the second division showing the word "Hy-Co" upon a black ground, and the third division being in orange spiked with two projections of green, the monad therein being in green and black, no claim being made to the words "Super Gas" and "Motor Fuel" apart from the mark as shown in the drawing.
Particular description of goods.—Fuel-Oils.
Claims use since May, 1919.

Ser. No. 122,496. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) POWELL-MCLEAN SPECIALTY CO., Los Angeles, Calif. Filed Sept. 2, 1919.

"WINGARDS"

Particular description of goods.—Windshields for Automobiles.
Claims use since May 1, 1919.

Ser. No. 122,507. (CLASS 31. FILTERS AND REFRIGERATORS.) AUTOMATIC CARBONIC MACHINE COMPANY, Peoria, Ill. Filed Sept. 10, 1919.



No claim being made to the words "Automatic Evercold" apart from the mark as shown.
Particular description of goods.—Refrigerating-Machines.
Claims use since Aug. 1, 1919.

Ser. No. 122,630. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RANSOM R. CHAMPLIN, Candia, N. H. Filed Sept. 13, 1919.

C. C. C.

Particular description of goods.—Chemical Carbon-Cleaner.
Claims use since July 30, 1919.

Ser. No. 122,673. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ABBOTT LABORATORIES, Chicago, Ill. Filed Sept. 15, 1919.

ARGYN

Particular description of goods.—Antiseptic Preparation.
Claims use since on or about Aug. 9, 1919.

Ser. No. 123,116. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) AUG. E. FRAASS, New York, N. Y. Filed Sept. 25, 1919.

FRAASSTRUMENT

Particular description of goods.—Acoumeters, for Testing Hearing; Adenotomes for Removal of Adenoids, Air-Bags for Treatment of the Ears; Applicators for Applying Medicine to Ear, Nose, Throat, and other Cavities of the Human Body; Anesthesia Apparatus, Angiotribes for Clamping Off Blood Vessels; Aspirators for Withdrawing Blood and Secretions from Body During Operations, etc.; Atomizers for Applying Fluid Matter to Patients in Spray Form, Burs for Operating on Any Part of the Human Skeleton, Bistouries for Doing Any Kind of Cutting During Operations, Bougies for Distending Natural Body-Passages; Batteries, Electric, for Therapeutic Purposes and for Illuminating Field of Operation, Also for Lighting Lamps for Diagnostic Purposes; Bronchoscopes for Examining and Operating on Bronchi, Curettes for Cutting and Scraping of Bone and Soft Tissues in Operations, Cannulas for Irrigating Parts of Body for Therapeutical and Diagnostical Purposes; Catheters for Irrigating Parts of Body for Therapeutical and Diagnostical Purposes, Also for Treating Ears by Means of Compressed Air; Compressors for Stopping Flow of Blood During Operations, Chisels for Bone Operations; Clamps for Stopping Hemorrhage, Also for Closing Wounds; Cranioclast for Crushing Skull of Infant in Obstetrics; Condensers for Intensifying Light, for Illuminating Field of Operation, and for Treatment; Dissectors for Separating Tissues and Organs from Their Natural Seats, Drills for Operating on Any Part of the Human Skeleton, Directors for Guiding Knives During Operations, Douches for Irrigating Body-Cavities, Dilators for Distending Natural Body-Passages, Elevators for Separating Tissues and Organs from Their Natural Seats, Eye-Droppers for Applying Fluids to Eyes, Ear-Spouts Used for Irrigating Ears, Evacuators for Drawing Secretions from Any Part of Body, Esophagoscopes for Examining and Operating on Esophagus, Endoscopes for Examining and Operating on Any Body-Cavity; Forceps Used for Dressing, Cutting, Breaking, and Crushing During Operations; Gouges for Operations on Bone; Hooks for Retracting and Engaging Tissues of Body, Foreign Bodies, etc.; Hemostats for Stopping Hemorrhages; Headbands for Fastening Reflectors, Headlights, etc., to Head of Operator; Headlights Used by Operator to Illuminate Field of Operation, Hammers Used for Operating with Chisel or Gouge, Irrigators for Irrigating Body-Cavities; Injection-Needles for Applying Medicine, Vaccination, Anesthetizing, etc.; Inflaters for Applying Air in Treatment of Diseases, Inhalers for Applying Medicine to Air-Passages by Means of Air or Steam, Knives for Doing Any Kind of Cutting During Operations; Lancets for Opening Blood Vessels, Abscesses, etc.; Laryngoscopes for Examining and Operating on Human Larynx; Ligature-Carriers Used in Suturing Wounds, for Tying Off Blood Vessels, etc.; Ligatures, Surgical Sewing Materials, Mouth-Gags for Keeping Mouth Open During Operations Thereon, Magnifiers for Examining Superficial Parts of Body, Mirrors Used for Examining and Reflecting Light into Cavities, Mallets Used for Operating with Chisel or Gouge, Needle-Holders for Holding Surgical Needles in Sewing up Wounds, Nebulizers for Application of Fluids in Vapor Form, Perforators for Opening Body-Cavities, Pumps for Compressing Air for Medical Purposes; Packers for Dressing Wounds, etc.: Probes for Sounding Wounds, Passages, and Cavities; Powder-Blowers for Applying Medications in Powder Form, Retractors for Holding Back Edges of Wounds or Opening Body-Passages to Make Them Accessible to Operator, Reamers for Operating on Any Part of the Human Skeleton, Rongeurs for Cutting Bone, Rasps for Removing Bony Structures, Rheostats for Controlling Electric Current Used for Lighting Diagnostic Apparatus; Surgical Scissors for Cutting Tissues, Bandages, etc.; Spatulas for Depressing Tongue and other Soft Parts in Examining and Operating; Suction-Tubes for Drawing Secretions from Any Part of Body and for Withdrawing Blood and Secretions from Body During Operations, etc.; Supporters, Abdominal; Snares for Removing Organs and Pathological Structures by Means of Wire Loop, Saws for Operations on Bone, Syringes for Irrigating and Injecting Purposes; Suture-Needles, Surgical, for Closing Up Wounds; Splints for Straightening out Deflected and Broken Parts of Body, Sterilizers for Rendering Instruments and Appliances Sterile by Boiling or Placing in Disinfecting Solutions, Stethoscopes for Auscultation Examination of Body, Specula for Holding Back Edges of Wounds or Opening Body-Passages to Make Them Accessible to Operator; Searchers for Sounding Wounds, Passages, and Cavities; Scoops for Cutting and Scraping of Bone and Soft Tissues in Operations; Sounds for Sounding Wounds, Passages, and Cavities; Suction Apparatus Used for Drawing Blood or Secretions from Body, Also Used for Treating Diseases; Spuds for Depressing Tongue and other Soft Parts in Examining and

Operating, Trocars for Making Artificial Openings into Cavities for Purpose of Withdrawing of Fluids and Irrigating, Tongue-Depressors for Holding Down Tongue When Operating in Mouth, Trephines for Operating on Any Part of the Human Skeleton, Tracheotomes for Opening Windpipe from the Outside, Tuckers for Shortening Eye-Muscles; Tenacula for Retracting and Engaging Tissues of Body, Foreign Bodies, etc.; Tonsillotomes for Removing Tonsils, Transformers Used in Connection with Electromedicinal Apparatus, Tracheal Tubes Used After Windpipe Has Been Opened Surgically.

Claims use since Jan. 1, 1919.

Ser. No. 123,753. (CLASS 39. CLOTHING.) EVA E. OWENS, Los Angeles, Calif. Filed Oct. 13, 1919.

POP-ON

Particular description of goods.—Hats for Women and Children and Booties for Infants Made of Knitted Material.

Claims use since Sept. 25, 1919.

Ser. No. 123,863. (CLASS 38. PRINTS AND PUBLICATIONS.) T. A. RANDALL & CO. INC., Indianapolis, Ind. Filed Oct. 16, 1919.

THE CLAY-WORKER

Particular description of goods.—Magazines Issued Monthly.

Claims use since Jan. 1, 1884.

Ser. No. 124,031. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN CANNING COMPANY, Oakland, Calif. Filed Oct. 20, 1919.



The lining on the drawing is intended to represent the colors red, gold, and light green.

Particular description of goods.—Canned Vegetables and Canned Fruits.

Claims use since June 15, 1919.

Ser. No. 124,048. (CLASS 39. CLOTHING.) METRO SHIRT CO., New York, N. Y. Filed Oct. 21, 1919.

Maxim

Particular description of goods.—Dress, Negligée, and Work Shirts.

Claims use since Aug. 29, 1919.

Ser. No. 124,068. (CLASS 2. RECEPTACLES.) CEMENT PRODUCTS COMPANY, Wilmington, N. C. Filed Oct. 22, 1919.

SANISEP

Particular description of goods.—Cement Sewage-Disposal Tanks.

Claims use since Apr. 1, 1918.

Ser. No. 124,438. (CLASS 39. CLOTHING.) GOLDSMITH & LERNER, INC., New York, N. Y. Filed Nov. 1, 1919.

Sealect SHIRT

No claim being made to the word "Shirt" apart from the mark shown, nor to the word "Select."

Particular description of goods.—Dress, Negligée, and Work Shirts, Pajamas, Collars and Cuffs, Men's Flat Underwear—viz., Two-Piece and Union Suits.

Claims use since Oct. 1, 1919.

Ser. No. 124,696. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SLONIM BROTHERS, Duluth, Minn. Filed Nov. 8, 1919.

DULUTH STANDARD

No claim is made to the words "Duluth Standard" other than in the fanciful form as shown.

Particular description of goods.—Armbands, Garters, and Suspenders.

Claims use since Nov. 4, 1919.

Ser. No. 124,796. (CLASS 39. CLOTHING.) ARTHUR A. KATTEN COMPANY, INC., New Orleans, La. Filed Nov. 12, 1919.



Particular description of goods.—Boys' Overalls and Boys' Knee-Pants and Coats.

Claims use since February, 1917.

Ser. No. 124,917. (CLASS 39. CLOTHING.) ROE METAL SANDAL COMPANY, Milwaukee, Wis. Filed Nov. 14, 1919.

SHU-SAVER

No claim is made to the words "Shoe Saver."

Particular description of goods.—Metal Sandals.

Claims use since Nov. 8, 1919.

Ser. No. 125,074. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GEORGE ALONZO BROWN, Stevens Point, Wis. Filed Nov. 19, 1919.

BLUE RIBBON

Particular description of goods.—Hens' Nests.

Claims use since Sept. 1, 1919.

Ser. No. 125,253. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THEODORE SJOQUIST, Chicago, Ill. Filed Nov. 24, 1919.



No claim being made to the word "Chicago" apart from the mark shown.

Particular description of goods.—Sound-Intensifiers for Telephones.

Claims use since Nov. 5, 1919.

Ser. No. 125,895. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LEABARJAN MANUFACTURING COMPANY, Hamilton, Ohio. Filed Dec. 12, 1919.

LEABARJAN

Particular description of goods.—Music-Sheet-Perforating Machines.

Claims use since Aug. 15, 1919.

Ser. No. 126,132. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEBRO MFG. CO., Pittsburgh, Pa. Filed Dec. 16, 1919.

LEBRO

Particular description of goods.—Dyspepsia-Tablets, Toothache-Wax, Carbolic Salve; White Liniment, for External Use in the Treatment of Muscular Rheumatism, Sciatica, Neuralgia, Lumbago, Aching Back, Stiff Neck, and Sore Throat; Wild-Cherry Expectorant, Syrup of Figs and Elixir of Senna Compound, Toothache Drops, Headache-Wafers, Dental Cream, and Sore-Throat Remedy.

Claims use since 1917.

Ser. No. 126,322. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HERMAN NECKWEAR MANUFACTURING COMPANY, Dallas, Tex. Filed Dec. 22, 1919.

"Pep"

Particular description of goods.—Neckties, Cravats, Neckscarfs, Ladies' Shirtwaists, Men's Belts, Hose-Supporters, Suspenders.

Claims use since about January, 1918.

Ser. No. 126,516. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) E. F. HOUGHTON & CO., Philadelphia, Pa. Filed Dec. 27, 1919.

VIM OAK

Particular description of goods.—Leather Belting.

Claims use since 1914.

Ser. No. 126,768. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HERSCHEL-ROTH MANUFACTURING COMPANY, Minneapolis, Minn. Filed Jan. 3, 1920.

RED GIANT

Particular description of goods.—Canvas Belting.

Claims use since Mar. 1, 1914.

Ser. No. 126,775. (CLASS 27. HOROLOGICAL INSTRUMENTS.) PILGRIM CLOCK COMPANY, INC., New York, N. Y. Filed Jan. 3, 1920.

"15"

Particular description of goods.—Watches, Clocks, and Alarm-Clocks.

Claims use since Aug. 1, 1919.

Ser. No. 126,783. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN C. STALFORT & SONS, Baltimore, Md. Filed Jan. 3, 1920.

FLASH

Particular description of goods.—Leather and Canvas Shoe Dressing and Polishes — Namely, Suède-Dressing, Suède-Cleaning Powder, Combination Polish for Cleaning and Polishing Leather and Fabric Shoes, Dull-Finish Dressing, Heel and Sole Dressing, Waterproof Dressing, Liquid Cleaning and Polishing Dressing, Shoe-Polish in the Form of a Paste, White Cleaning and Polishing Cream, White Liquid Shoe-Cleaner, Shoe Cleaner and Whitener in Cake Form, Shoe-Scouring Powder, Shoe-Ink in the Nature of a Friction-Polish; Heel and Edge Enamel for Polishing Edges, Heels, and Bottoms of Shoes; Heel-Ball Used for Filling Crevices in Soles and Heels, Finishing-Wax for Finishing and Polishing the Edges of Heels of Shoes, Liquid Shoe-Polish, Liquid Bronze Dressing, White-Kid Cream Dressing, White-Shoe Powder for Cleaning White Shoes, White Stick-Polish, and Cleaning Fluid.
Claims use since January, 1915.

Ser. No. 126,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOLOMON KARAK, New York, N. Y. Filed Jan. 5, 1920.

"KARACK"

Particular description of goods.—Fermented Milk.
Claims use since Dec. 15, 1919.

Ser. No. 126,817. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NICHOLAS LUKIN, New York, N. Y. Filed Jan. 5, 1920.

Lolly Laxe

Particular description of goods.—A Laxative.
Claims use since Feb. 15, 1919.

Ser. No. 127,334. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARP & DOHME, Baltimore, Md. Filed Jan. 19, 1920.



No claim being made to the words "Lithiated Sorghum" apart from the mark sffhown. The conventional lining is for shading only.
Particular description of goods. — Sedative Diuretic Compound.
Claims use since June 14, 1898.

Ser. No. 127,453. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) STEARNS RUBBER PRODUCTS COMPANY, Chicago, Ill. Filed Jan. 21, 1920.



No claim is made to the exclusive use of the word "Kantkumoff" nor to the representation of the inner tire-tube except in the relation and association shown.
Particular description of goods.—Rubber Patches for Repairing Rubber or Fabric Articles.
Claims use since Jan. 12, 1920.

Ser. No. 127,491. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS A. SILK, New York, N. Y. Filed Jan. 22, 1920.

SILKSPUN

Consisting of the word "Silkspun."
Particular description of goods.—Embroideries in the Piece, Laces in the Piece, and Handkerchiefs.
Claims use since Sept. 17, 1918.

Ser. No. 127,545. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) GILL MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 24, 1920.

Gill

No claim being made to the representation of a piston-ring apart from the mark as shown.
Particular description of goods.—Piston-Rings.
Claims use since Dec. 24, 1919.

Ser. No. 127,585. (CLASS 12. CONSTRUCTION MATERIALS.) FORMBY PETRINITE CORPORATION, Jacksonville, Fla. Filed Jan. 26, 1920.

Petrinite

Particular description of goods. — Hardening and Strengthening Materials for Use with Tile, Brick, Portland Cement, and Artificial Stone.
Claims use since about November, 1918.

Ser. No. 127,752. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BEATTY MACHINE & MFG. CO., Hammond, Ind. Filed Jan. 30, 1920.



In the drawing the central disk is lined for light blue, the inner circle for brown, and two arcs of circles for orange and the two outer circular devices for shading.
Particular description of goods.—Power Steel-Punches, Power Steel-Shears, Power Steel-Presses, Power Steel-Bender, and Portable Floor-Cranes.
Claims use since July 1, 1917.

Ser. No. 127,783. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SIMONS MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 30, 1920.

SIMONIZ

Particular description of goods.—Paste for Cleaning and Polishing Automobile-Bodies and the Like.
Claims use since May 28, 1918.

Ser. No. 127,788. (CLASS 32. FURNITURE AND UPHOLSTERY.) TENNESSEE FURNITURE CORPORATION, Chattanooga, Tenn. Filed Jan. 30, 1920.

Frigi-Cabinet

Consists of the hyphenated word "Frigi-Cabinet" contained within an oval border, no claim being made to the word "Cabinet" apart from the remainder of the mark as illustrated.
Particular description of goods.—Combined Kitchen-Cabinets and Refrigerators.
Claims use since Nov. 1, 1919.

Ser. No. 127,791. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AMERICAN STEEL FOUNDRIES, Chicago, Ill. Filed Jan. 31, 1920.



Particular description of goods.—Side Frames, Couplers, Draft-Gears, Journal-Boxes, Brakes and Parts Thereof, Bolsters, Car-Wheels, Draft-Arms, and Coupler-Pockets.
Claims use since January, 1903.

Ser. No. 127,903. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DAWSON METALS, INC., New York, N. Y. Filed Feb. 3, 1920.

D-H-C

Particular description of goods.—Hardened Copper as a Metal or Alloy.
Claims use since January, 1911.

Ser. No. 127,904. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LOUIS D'EYRAUD, Los Angeles, Calif. Filed Feb. 3, 1920.



Particular description of goods. — Automobile-Windshield Cleaners in the Nature of a Squeegee.
Claims use since Dec. 16, 1917.

Ser. No. 127,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOULDS FRUIT & VEGETABLE GROWERS ASSN., Goulds, Fla. Filed Feb. 3, 1920.

JUST RIGHT BRAND

No claim is made to exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Fresh Citrus Fruits—Namely, Grape-Fruit; Fresh Vegetables — Namely, Tomatoes.
Claims use since Sept. 22, 1919.

Ser. No. 127,957. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LOUIS BERNSTEIN, New York, N. Y. Filed Feb. 4, 1920.

Abie the Agent Series

Particular description of goods.—Phonograph-Records.
Claims use since Jan. 10, 1920.

Ser. No. 128,033. (CLASS 39. CLOTHING.) HARRY L. WHITE, Wheeling, W. Va. Filed Feb. 5, 1920.

White's Bazaar

Th name "White" is in the handwriting of the applicant. Applicant disclaims any exclusive trade-mark right in the word "Bazaar" except when used in connection with the word "White's," as shown in the drawing.

Particular description of goods.—Ladies' and Misses' Suits, Skirts, Shirtwaists, Petticoats, Kimonos, Nightgowns, Muslin Underwear, Envelop-Chemises, Teddy-Bears, and Camisoles; Ladies' and Misses' Fur Coats, Fur Neck-Pieces, and Fur Muffs; Ladies', Misses', and Children's Dresses, Children's Cloth Coats, and Ladies' Hats, Trimmed and Untrimmed.
Claims use since about September, 1905.

Ser. No. 128,036. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AGRA COMPANY, Detroit, Mich. Filed Feb. 6, 1920.

NYKIS

Consisting of the word "Nykis."
Particular description of goods.—Talcums, Face-Powder, Perfumes, Face-Creams, and Toilet Water.
Claims use since Dec. 24, 1919.

Ser. No. 128,234. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Playing-Cards and Chips; Cribbage-Boards.
Claims use since 1868.

Ser. No. 128,235. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & CO.

Particular description of goods.—Playing-Cards and Chips; Cribbage-Boards.
Claims use since 1868.

Ser. No. 128,305. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) JOSEPH HERRBURGER, Paris, France. Filed Feb. 12, 1920.

ODEOLA

Particular description of goods.—Pianos, Automatic and Player Pianos, and Perforated Music-Rolls.
Claims use since Jan. 31, 1919.

Ser. No. 128,581. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) B. ALTMAN & CO., New York, N. Y. Filed Feb. 19, 1920.

Fleurs aimées

Particular description of goods.—Soap.
Claims use since Dec. 13, 1919.

Ser. No. 128,600½. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ULLMAN ELECTRIC COMPANY, Boston, Mass. Filed Mar. 15, 1920.

ALMA LITE

Particular description of goods.—Arc and Incandescent Electric Lamps, Electric Dry Batteries, and Commercial Interior Electrical Fixtures.
Claims use since Oct. 1, 1918.

Ser. No. 128,688. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) KETCHAM & MCDOUGALL, INC., Brooklyn, N. Y. Filed Feb. 20, 1920.

KETCHALL

Particular description of goods.—Automatic-Winding Eyeglass or Pencil Holders.
Claims use since March, 1915.

Ser. No. 128,714. (CLASS 39. CLOTHING.) SUPERIOR GARMENT COMPANY, Columbia City, Ind. Filed Feb. 20, 1920.

KIDDIES

Particular description of goods.—Children's Play-Suits.
Claims use since November, 1919.

Ser. No. 128,741. (CLASS 37. PAPER AND STATIONERY.) CHARLES D. ROBERTS, Pittsburgh, Pa. Filed Feb. 21, 1920.



I hereby disclaim, apart from the mark shown in the drawing, the word "Pens," and also the representation of a pen.
Particular description of goods.—Metallic Pen-Points.
Claims use since Oct. 9, 1919.

Ser. No. 128,742. (CLASS 37. PAPER AND STATIONERY.) CHARLES D. ROBERTS, Pittsburgh, Pa. Filed Feb. 21, 1920.



Particular description of goods.—Metallic Pen-Points.
Claims use since June 10, 1918.

Ser. No. 128,820. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAY SIDE CANNING CO., Alviso, Calif. Filed Feb. 24, 1920.

Bay Side BRAND

Particular description of goods.—Canned Fruits—Namely, Canned Apricots, Canned Peaches, and Canned Pears—and Canned Vegetables—Namely, Canned Tomatoes and Canned Asparagus.
Claims use since July, 1911.

Ser. No. 128,862. (CLASS 5. ADHESIVES.) ALBERT J. TOMLINSON, Wichita, Kans. Filed Feb. 24, 1920.



Particular description of goods.—An Adhesive Liquid Composition Used in the Repair and Patching of Rubber, Leather, Cloth, and Composition Goods and Articles.
Claims use since Dec. 15, 1919.

Ser. No. 128,865. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SCOTT COUNTY MILLING COMPANY, Sikeston, Mo. Filed Feb. 24, 1920.

GOLDEN FLUFF

Particular description of goods.—Wheat-Flour, More Specifically Self-Rising Flour.
Claims use since October, 1919.

Ser. No. 128,866. (CLASS 15. OILS AND GREASES.) SLOAN & ZOOK, Bradford, Pa. Filed Feb. 24, 1920.

S&Z

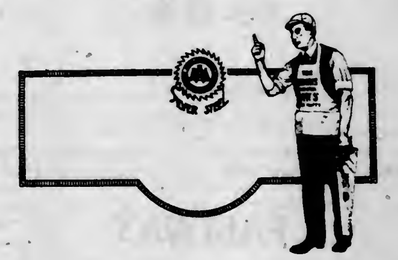
Particular description of goods.—Gasolene, Naphtha, Kerosene, and Fuel-Oil.
Claims use since Oct. 8, 1916.

Ser. No. 128,910. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE VEGA SEPARATOR COMPANY, Fostoria, Ohio. Filed Feb. 25, 1920.



Particular description of goods.—Cream-Separators.
Claims use since July 1, 1919.

Ser. No. 128,995. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. C. ATKINS & COMPANY, Indianapolis, Ind. Filed Feb. 28, 1920.



The portrait is fanciful. The phrase "Use Atkins Silver Steel Saws and be Happy" is disclaimed apart

from the mark as shown in the drawing. Exclusive use of the words "Indianapolis, Ind." is disclaimed.

Particular description of goods.—Circular Saws for Wood, Metal, and All other Materials for Which Such Saws are Used, Band-Saws of All Kinds, Handsaws, Rip and Panel Saws, Crosscut-Saws, Wood (Buck) Saws, Buck-Saws, Compass and Keyhole Saws, Pruning-Saws, Machine-Knives for All Purposes, Shear-Blades for Cutting Metals, Circular Knives, Corn-Knives, Cane-Knives, Beet-Knives, All other Knives Except Pocket-Knives, Scraper-Blades of All Kinds, Trowels, and Saw-Fitting Tools.

Claims use since Dec. 29, 1919.

Ser. No. 128,998. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JOEL BLOMETER, Hobarton, Iowa. Filed Feb. 28, 1920.



No claim being made to the representation of the spark-plug.

Particular description of goods.—Spark-Plugs.

Claims use since Jan. 13, 1920.

Ser. No. 129,158. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) VAN CAMP HARDWARE & IRON COMPANY, Indianapolis, Ind. Filed Mar. 2, 1920.

HiWay

Particular description of goods.—Electric Batteries and Flash-Lights.

Claims use since Mar. 1, 1917.

Ser. No. 129,180. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) J. A. MIGEL, INC., New York, N. Y. Filed Mar. 3, 1920.

FAN-TA-SI

Particular description of goods.—Hairpins.

Claims use since April, 1918.

Ser. No. 129,184. (CLASS 39. CLOTHING.) J. A. MIGEL, INC., New York, N. Y. Filed Mar. 3, 1920.

FAIRWAY

Particular description of goods.—Hairpins.

Claims use since September, 1918.

Ser. No. 129,194. (CLASS 39. CLOTHING.) W. E. TILLOTSON MANUFACTURING COMPANY, Pittsfield, Mass. Filed Mar. 3, 1920.

COLLINS

Particular description of goods.—Knitted Underwear for Adults and Children, Consisting of Two-Piece Garments.

Claims use since prior to Jan. 1, 1895.

Ser. No. 129,225. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.

LUNA

Particular description of goods.—Mops.

Claims use since Oct. 20, 1919.

Ser. No. 129,227. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.

ARCTIC

Particular description of goods.—Mops.

Claims use since June 1, 1909.

Ser. No. 129,229. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.

MASCO

Particular description of goods.—Mops.

Claims use since May 14, 1919.

Ser. No. 129,232. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.

EUREKA

Particular description of goods.—Mops.

Claims use since Mar. 30, 1909.

Ser. No. 129,235. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.

LILY

Particular description of goods.—Mops.

Claims use since June 12, 1919.

Ser. No. 129,295. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN TRADING COMPANY, New York, N. Y. Filed Mar. 6, 1920.



Particular description of goods.—Cotton Piece Goods.

Claims use since Jan. 15, 1920.

Ser. No. 129,336. (CLASS 39. CLOTHING.) D. M. OBERMAN MANUFACTURING COMPANY, Jefferson City, Mo. Filed Mar. 6, 1920.

KLONDIKER

Particular description of goods.—Flannel Shirts for Outer Wear.

Claims use since Dec. 1, 1919.

Ser. No. 129,355. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TRIPOD PAINT CO., Atlanta, Ga. Filed Mar. 6, 1920.

Dixikote

Particular description of goods.—Flat Wall-Paint.

Claims use since Mar. 25, 1912.

Ser. No. 129,356. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TRIPOD PAINT CO., Atlanta, Ga. Filed Mar. 6, 1920.

AURORA

Particular description of goods.—Tinted Lead and Ready-Mixed Paints.

Claims use since 1889.

Ser. No. 129,359. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TRIPOD PAINT CO., Atlanta, Ga. Filed Mar. 6, 1920.

OPALLAC

Particular description of goods.—Varnish-Stains.

Claims use since Feb. 19, 1909.

Ser. No. 129,436. (CLASS 43. THREAD AND YARN.) WOOL NOVELTY CO., INC., New York, N. Y. Filed Mar. 8, 1920.



Particular description of goods.—Hand-Knitting Yarns Made of Wool, Worsted, Cotton, Silk, and Artificial Silk.

Claims use since 1918.

Ser. No. 129,550. (CLASS 12. CONSTRUCTION MATERIALS.) ILLINOIS VALLEY SASH & DOOR COMPANY, Peru, Ill. Filed Mar. 11, 1920.

I. V.

Particular description of goods.—Inside Finish—Namely, Base-Boards, Quarter-Rounds, Half-Rounds, Stools, Sills, and Casings; Outside Finish—Namely, Crown-Molds, Bead-Molds, Verge-Boards, Balustrades, and Columns; Stairwork—Namely, Treads, Risers, and Stringers; Sash, Doors, Moldings; Cabinet-Work—Namely, Shelving, Mantels, Drawers, Sideboards, and Wall-Rails; Railings, Blinds, Shutters, and Wall-Board, All Made of Wood.

Claims use since Feb. 1, 1909.

Ser. No. 129,551. (CLASS 12. CONSTRUCTION MATERIALS.) ILLINOIS VALLEY SASH & DOOR COMPANY, Peru, Ill. Filed Mar. 11, 1920.



No claim being made to the use of the words "Sash, Doors" apart from the mark as shown.

Particular description of goods.—Inside Finish—Namely, Base-Boards, Quarter-Rounds, Half-Rounds, Stools, Sills, and Casings; Outside Finish—Namely, Crown-Molds, Bead-Molds, Verge-Boards, Balustrades, and Columns; Stairwork—Namely, Treads, Risers, and Stringers; Sash, Doors, Moldings; Cabinet-Work—Namely, Shelving, Mantels, Drawers, Sideboards, and Wall-Rails; Railings, Blinds, Shutters, and Wall-Board, All Made of Wood.

Claims use since Feb. 1, 1909.

Ser. No. 129,679. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND COMPANY, Chicago, Ill. Filed Mar. 13, 1920.

KOOL-EST

No claim being made to the word "Coolest."

Particular description of goods.—Muslin Underwear for Men, Women, and Children.

Claims use since Jan. 10, 1920.

Ser No. 129,711. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARRY HERMAN FRITCH, Chicago, Ill. Filed Mar. 15, 1920.

WUNRUB

Particular description of goods.—A Polish for Pianos, Furniture, Woodwork, Automobiles, Hardwood Floors, and the Like.

Claims use since Feb. 20, 1920.

Ser. No. 129,880. (CLASS 12. CONSTRUCTION MATERIALS.) FORD ROOFING PRODUCTS COMPANY, INCORPORATED, Chicago, Ill. Filed Mar. 18, 1920.

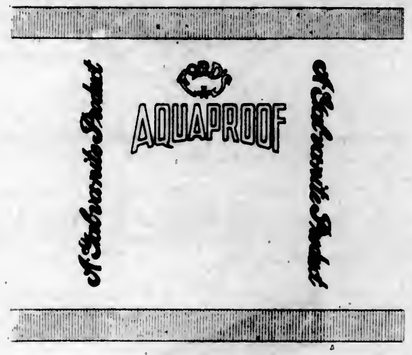


Drawing lined to denote red, no claim being made to the words "Roofing," "Roofing Guarantee," and "Lightning Proof Guarantee" aside from the combination in which they are used.

Particular description of goods.—Prepared Asphalt Roofing.

Claims use since September, 1903.

Ser. No. 129,881. (CLASS 12. CONSTRUCTION MATERIALS.) FORD ROOFING PRODUCTS COMPANY, INCORPORATED, Chicago, Ill., and St. Louis, Mo. Filed Mar. 18, 1920. Under ten-year proviso.



Drawing lined to denote red.

Particular description of goods.—Prepared Asphalt Roofing.

Claims use since 1865.

Ser. No. 129,882. (CLASS 12. CONSTRUCTION MATERIALS.) FORD ROOFING PRODUCTS COMPANY, INCORPORATED, Chicago, Ill., and St. Louis, Mo. Filed Mar. 18, 1920. Under ten-year proviso.



Drawing lined to denote red.

Particular description of goods.—Shingles and Prepared Asphalt Roofing.

Claims use since 1865.

Ser. No. 129,883. (CLASS 12. CONSTRUCTION MATERIALS.) FORD ROOFING PRODUCTS COMPANY, INCORPORATED, Chicago, Ill., and St. Louis, Mo. Filed Mar. 18, 1920.



Drawing lined to denote blue.

Particular description of goods.—Prepared Asphalt Roofing.

Claims use since 1903.

Ser. No. 129,884. (CLASS 12. CONSTRUCTION MATERIALS.) FORD ROOFING PRODUCTS COMPANY, INCORPORATED, Chicago, Ill., and St. Louis, Mo. Filed Mar. 18, 1920. Under ten-year proviso.

Drawing lined to denote purple.

Particular description of goods.—Prepared Asphalt Roofing.

Claims use since 1865.

Ser. No. 129,894. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) INDUSTRIAL PAINT COMPANY, Fair Oaks borough, Pa. Filed Mar. 18, 1920.

Nacco

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints.

Claims use since Mar. 1, 1920.

Ser. No. 130,014. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BECH, VAN SICLEN & CO., INC., San Francisco, Calif. Filed Mar. 22, 1920.



No claim being made to the word "Best" apart from the mark shown in the drawing.

Particular description of goods.—Wheat-Flour.

Claims use since Mar. 1, 1920.

Ser. No. 130,021. (CLASS 32. FURNITURE AND UPHOLSTERY.) CARTER BROS. MATTRESS COMPANY, Chattanooga, Tenn. Filed Mar. 22, 1920.

"Wool-bott"

Particular description of goods.—Mattresses.

Claims use since Feb. 25, 1920.

Ser. No. 130,061. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) REDMANOL CHEMICAL PRODUCTS CO., Chicago, Ill. Filed Mar. 22, 1920.

REDMANOL

Particular description of goods.—Electrical Appliances—Namely, Armatures, Bobbin-Heads, Buttons, Distributer-Tops, End Bells, Fuse-Blocks, Fuse-Cases, Refillable Cases, Handles, Instrument-Cases, Insulating-Sockets, Magneto Parts, Meter-Cases, Plugs, Potentiometer-Tops, Rheostat-Bases, Insulating Rods and Sheets, Switchboards, Switch Handles and Bases, Telephone-Receiver Shells, Telephone Ear-Caps, Telephone-Mouthpieces, and Wireless Boxes.

Claims use since June 25, 1914.

Ser. No. 130,125. (CLASS 15. OILS AND GREASES.) THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Mar. 24, 1920.



Particular description of goods.—Black Oils, Compounded Oils, Crude Oils, Cutting-Oils, Cylinder-Oils, Dynamo-Oils, Engine-Oils, Fuel-Oils, Gas-Oils, Heating-

Oils, Illuminating-Oils, Journal-Oils, Kerosene-Oils, Lubricating-Oils, Motor-Oils, Neutral Oils, Paraffin-Oils, Road-Oils, Roofing-Oils, Standard White Illuminating-Oils, Transformer-Oils, Transmission-Oils, Turbine-Oils, Water-White Illuminating-Oils, Spindle-Oils, Axle-Greases, Black Greases, Gear-Greases, Lubricating-Greases, Petroleum-Greases, Transmission-Greases, Candles, Gasolenes, Naphthas, Paraffin-Wax, and Rust-Preventive in the Nature of Oils and Greases.

Claims use since Jan. 28, 1915.

Ser. No. 130,183. (CLASS 39. CLOTHING.) TAMAQUA UNDERWEAR COMPANY, Tamaqua, Pa. Filed Mar. 25, 1920.

"CLEO"

Particular description of goods.—Women's Knitted Underwear of One, Two, or Three Piece Garments and Union-Suits.

Claims use since Mar. 1, 1920.

Ser. No. 130,245. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SOCIÉTÉ LA PERLE SASKIA, Paris, France. Filed Mar. 26, 1920.

IZARRA

Particular description of goods.—Pearls, Collars of Pearls, and Jewels Adorned with Pearls (Fine or Artificial) and Articles of Jewelry for Personal Wear, Not Including Watches.

Claims use since September, 1917.

Ser. No. 130,289. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE PRUDENTIAL RUBBER COMPANY, Akron, Ohio. Filed Mar. 27, 1920.

PRUDENTIAL

Particular description of goods.—Automobile-Tires Made of Rubber and Fabric and Inner Tubes of Rubber for Tires.

Claims use since June 1, 1912.

Ser. No. 130,302. (CLASS 32. FURNITURE AND UPHOLSTERY.) TENNESSEE FURNITURE CORPORATION, Chattanooga, Tenn. Filed Mar. 27, 1920.

"MANDY"

Particular description of goods.—Portable Serving-Tables.

Claims use since Nov. 1, 1919.

Ser. No. 130,323. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JOSEPH H. DWORK, Newark, N. J. Filed Mar. 29, 1920.

Red Raven

The lining therein merely representing shading.

Particular description of goods.—Rubber Tires and Inner Tubes.

Claims use since Feb. 2, 1920.

Ser. No. 130,413. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HENRY GITTERMAN & Co., New York, N. Y. Filed Mar. 31, 1920.

Loomhide

Particular description of goods.—Imitation Leather.

Claims use since Dec. 1, 1919.

Ser. No. 130,431. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROMUL MANUFACTURING COMPANY, INC., New York, N. Y. Filed Mar. 31, 1920.

ROMUL

Particular description of goods.—Carbureters, Mechanical Carbon-Removers and Air-Traps, and Gasolene-Strainers, All Applied to Internal-Combustion Engines.

Claims use since June 1, 1918.

Ser. No. 130,496. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JACOB STEIN, Sheboygan, Wis. Filed Apr. 1, 1920.

BADGER D A G B E R BRAND

No claim being made to the word "Brand" apart from the mark shown.

Particular description of goods.—Brooms.

Claims use since Feb. 2, 1920.

Ser. No. 130,520. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE CRAWFORD, McGREGOR & CANBY COMPANY, Dayton, Ohio. Filed Apr. 2, 1920.

"MACGREGOR"

Particular description of goods.—Golf-Clubs and Golf-Balls.

Claims use since about Mar. 1, 1897.

Ser. No. 130,562. (CLASS 12. CONSTRUCTION MATERIALS.) ZENITHERM COMPANY, Newark, N. J. Filed Apr. 2, 1920.

Z

Particular description of goods.—Materials Used in Construction-Work to Resist the Action or Entrance of Heat.

Claims use since June, 1918.

Ser. No. 130,605. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) Mrs. LIZZIE PRICE MARX, New Orleans, La. Filed Apr. 3, 1920.

L. P. M. Reflex

Particular description of goods.—Polish Used on Painted and Varnished Surfaces.

Claims use since Feb. 25, 1915.

Ser. No. 130,725. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) EDWARD M. LANG, Jersey City, N. J. Filed Apr. 6, 1920.

PARADISETTE

Particular description of goods.—Burnt Coque Feathers.

Claims use since Mar. 3, 1920.

Ser. No. 130,755. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CLIFFORD W. EGERTON, Brooklyn, N. Y. Filed Apr. 7, 1920.

SoxLox

Particular description of goods.—Hose-Supporters.

Claims use since Apr. 1, 1920.

Ser. No. 130,789. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. GRAHAM, New York, N. Y. Filed Apr. 7, 1920.

G.P.

Particular description of goods.—Chemical Carbon-Removing Compound.

Claims use since Oct. 30, 1919.

Ser. No. 130,796½. (CLASS 12. CONSTRUCTION MATERIALS.) ASBESTOS WOOD MFG. CORP., New York, N. Y. Filed Apr. 8, 1920.

ETERNO

Particular description of goods.—Asbestos Lumber, Asbestos Wood, Asbestos Wall-Board, Asbestos Shingle, Asbestos Heat-Insulating Material, Asbestos Moldings.

Claims use since about September, 1914.

Ser. No. 130,878. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE CHARLES WILLIAM STORES, INC., Brooklyn, N. Y. Filed Apr. 9, 1920.

ATLANTIC

Particular description of goods.—Rubber Tires for Automobiles and other Vehicles.

Claims use since Mar. 1, 1920.

Ser. No. 130,920. (CLASS 39. CLOTHING.) THE SHIRTCRAFT CO. INC., New York, N. Y. Filed Apr. 9, 1920.

LUXOR

Particular description of goods.—Men's Dress, Negligée, and Work Shirts.

Claims use since January, 1920.

Ser. No. 130,959. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FEDERAL DOLL MANUFACTURING CO., INC., New York, N. Y. Filed Apr. 10, 1920.

"RareDoll"

No claim being made to the word "Doll" apart from the mark shown in the drawing.

Particular description of goods.—Dolls.

Claims use since Oct. 1, 1919.

Ser. No. 130,982. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RAFAEL DEL CASTILLO & CO., New York, N. Y. Filed Apr. 10, 1920.



Particular description of goods.—Cotton Piece Goods.

Claims use since Mar. 4, 1920.

Ser. No. 130,984. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RAFAEL DEL CASTILLO & CO., New York, N. Y. Filed Apr. 10, 1920.



Particular description of goods.—Cotton Piece Goods.

Claims use since Mar. 9, 1920.

Ser. No. 131,022. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) FABREEKA BELTING COMPANY, Boston, Mass. Filed Apr. 12, 1920.

Fabreeka

Particular description of goods.—Belting Composed of Laminæ of Fabric and a Flexible or Elastic Composition.

Claims use since on or about Aug. 1, 1914.

Ser. No. 131,032. (CLASS 26. HOROLOGICAL INSTRUMENTS.) MEYER & STÜDELI, S. A., Soleure, Switzerland. Filed Apr. 12, 1920.

PALMYRA

Particular description of goods.—Watches, Clocks, and Parts Thereof.

Claims use since Oct. 3, 1905.

Ser. No. 131,033. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MEYER & STÜDELI, S. A., Soleure, Switzerland. Filed Apr. 12, 1920.

TIÈGA

Particular description of goods.—Watches, Clocks, and Parts Thereof.

Claims use since Jan. 22, 1903.

Ser. No. 131,034. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MEYER & STÜDELI, S. A., Soleure, Switzerland. Filed Apr. 12, 1920.

MEDANA

Particular description of goods.—Watches, Clocks, and Parts Thereof.

Claims use since Aug. 4, 1909.

Ser. No. 131,262. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) GUILLAUME LIMITED, Redditch and Alcester, England. Filed Apr. 17, 1920.



No claim being made to the exclusive right to the use of the representation of needles apart from the mark shown in the drawing.

Particular description of goods.—Needles for Hand-Sewing and Toilet-Pins.

Claims use since Nov. 7, 1917.

Ser. No. 131,276. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHARLES MCADAM CO., Chicago, Ill. Filed Apr. 17, 1920.

SAND-E-Z-LAC

Particular description of goods.—Prepared Liquid Shellacs, Lacquers, and Prepared Liquid Shellac Substitutes.

Claims use since Mar. 1, 1920.

Ser. No. 131,283. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PIEL BROS., INC., East New York, N. Y. Filed Apr. 17, 1920.

Rubanet

Particular description of goods.—A Non-Alcoholic Beverage (*i. e.*, a Beverage Containing Less Than One-Half of One Per Cent. of Alcohol) Made from Fruit-Juice.

Claims use since Feb. 14, 1920.

Ser. No. 131,284. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PIEL BROS., INC., East New York, N. Y. Filed Apr. 17, 1920.

Ruzanet

Particular description of goods.—A Non-Alcoholic Beverage (*i. e.*, a Beverage Containing Less Than One-Half of One Per Cent. of Alcohol) Made from Fruit-Juice.

Claims use since Feb. 14, 1920.

Ser. No. 131,286. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Apr. 17, 1920.

ARESCO

Particular description of goods.—Cotton Piece Goods.

Claims use since July 5, 1916.

Ser. No. 131,390. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) CHARLES HEINLEIN, Sr., Cincinnati, Ohio. Filed Apr. 20, 1920.

ATCO

Particular description of goods.—Trunks, Traveling-Bags, and Suitcases.

Claims use since Sept. 30, 1914.

Ser. No. 131,402. (CLASS 38. PRINTS AND PUBLICATIONS.) SOCIETY, SONS OF THE REVOLUTION IN THE STATE OF CALIFORNIA, Los Angeles, Calif. Filed Apr. 20, 1920.

REPOSITORY OF THE SOUTHWEST

Particular description of goods.—Publications Issued Quarterly.

Claims use since about the month of April, 1916.

Ser. No. 131,407. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STRAUSS BROTHERS, Baltimore, Md. Filed Apr. 20, 1920.

...TOKIO...

MERCERIZED

SATTEENS

No claim being made to the words "Tokio Mercerized Satteens" other than in connection with the border shown.

Particular description of goods.—Sateen Piece Goods.

Claims use since Jan. 2, 1916.

Ser. No. 131,419. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FLEXIBLE STEEL LACING COMPANY, Chicago, Ill. Filed Apr. 21, 1920.



Particular description of goods.—Flexible or Hinged Belt-Fasteners.

Claims use since the year 1909.

Ser. No. 131,427. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE JOHN HUGO MFG. CO., New Haven, Conn. Filed Apr. 21, 1920.

TESTALITE

No claim being made to the words "Test a Light" written separately or in any other fashion except as it appears in the drawing.

Particular description of goods.—Electrical Testing Devices.

Claims use since Sept. 1, 1919.

Ser. No. 131,470. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE EAGLE-PICHER LEAD CO., Cincinnati, Ohio. Filed Apr. 22, 1920.

PICHER

Particular description of goods.—Storage Batteries and Storage-Battery Parts.

Claims use since 1888.

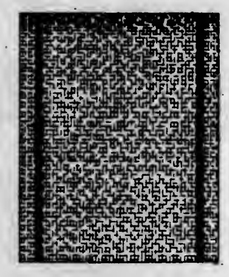
Ser. No. 131,507. (CLASS 37. PAPER AND STATIONERY.) STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Apr. 22, 1920.

BAY PATH

Particular description of goods.—Wedding, Ledger, Photomount, Book, Cover, and Writing Papers, Bond-Papers for Both Writing and Printing Purposes, Bristol-Board, Paper and Cardboard for Picture and Photograph Mats, Stationery-Paper for Correspondence, and Cardboard Generally.

Claims use since May 5, 1914.

Ser. No. 131,512. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE TOURAINE COMPANY, Boston, Mass. Filed Apr. 22, 1920.



The background is lined for yellow, and the ribbons extending across the longest portions of the label, symmetrically positioned near the ends thereof, are green in color, no claim being made to the representation of a label *per se*.

Particular description of goods.—Candy.

Claims use since Mar. 25, 1919.

Ser. No. 131,700. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DURAND COMPANY, Boston, Mass. Filed Apr. 27, 1920.



No claim being made to the words "Fine Candies" apart from the other features of the mark shown on the drawing.

Particular description of goods.—Candy.

Claims use since May, 1914.

Ser. No. 131,703. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN G. F. HIEBER, Spokane, Wash. Filed Apr. 27, 1920.



Particular description of goods.—Non-Alcoholic, Non-Intoxicating, Non-Cereal, Maltless Beverage Sold as a Soft Drink.

Claims use since Jan. 15, 1920.

Ser. No. 131,767. (CLASS 12. CONSTRUCTION MATERIALS.) THE ARROW LUMBER COMPANY, Parkersburg, W. Va. Filed Apr. 29, 1920.



The diagonal lines on the drawing indicate shading only.

Particular description of goods.—Lumber and Timber.

Claims use since Jan. 28, 1916.

Ser. No. 131,812. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FELIX LAUTER, Albany, N. Y. Filed Apr. 29, 1920.

EBOLITE

Particular description of goods.—Piano Keys and Sound-Boxes.

Claims use since Apr. 12, 1920.

Ser. No. 131,817. (CLASS 12. CONSTRUCTION MATERIALS.) MAUDE MABEL CASAMER, Louisville, Ky. Filed Apr. 29, 1920.



No claim being made to the use of the words "Long Life for Roofs at Low Cost," "Roof Coating," "Coatings Co." and "Louisville, Kentucky," apart from the mark shown.

Particular description of goods.—Liquid Roofing Compound.

Claims use since about November, 1917.

Ser. No. 131,849. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GUY ZIEGLER, Lincoln, Nebr. Filed Apr. 29, 1920.



Particular description of goods.—Storage Batteries of the Lead-Acid Type for Automobile Starting and Lighting and Storage Batteries Generally.

Claims use since Mar. 1, 1920.

Ser. No. 131,854. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JAMES CLARK JR. ELECTRIC CO., Louisville, Ky. Filed Apr. 30, 1920. Under ten-year proviso.

WILLEY

Particular description of goods.—Electric Apparatus.

Claims use since January, 1894.

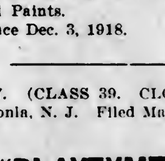
Ser. No. 131,895. (CLASS 12. CONSTRUCTION MATERIALS.) BELL'S UNITED ASBESTOS CO. LTD., London, England. Filed May 1, 1920.

HURCAN

Particular description of goods.—Cement-Concrete Blocks and Slabs, Cement-Asbestos Plates, Slabs, and Sheets for Building and Decoration.

Claims use since October, 1919.

Ser. No. 131,942. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CHICAGO BELTING COMPANY, Chicago, Ill. Filed May 3, 1920.



Particular description of goods.—Leather Belting.

Claims use since 1890.

Ser. No. 132,014. (CLASS 39. CLOTHING.) HERBERT D. KONSKI, New York, N. Y., and Atlantic City, N. J. Filed May 4, 1920.



Particular description of goods.—Pajamas, Night-Robes, Under and Night Shirts, Blouses, and Negligées.

Claims use since Mar. 10, 1920.

Ser. No. 132,024. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PITTSBURGH OIL REFINING CORPORATION, Baltimore, Md. Filed May 4, 1920.

PAINTSEED

Particular description of goods.—A Manufactured Oil Which is the Equivalent of Linseed-Oil, Used as a Vehicle for Paints, Leads, and other Pigments and in Mixing Ready-Mixed Paints.

Claims use since Dec. 3, 1918.

Ser. No. 132,027. (CLASS 39. CLOTHING.) PAUL L. SELIGMAN, Leonia, N. J. Filed May 4, 1920.

"PLAYTYME"

Particular description of goods.—Outer Wash-Garments for Children.

Claims use since October, 1919.

Ser. No. 132,067. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HARRY J. SOHMER, New York, N. Y. Filed May 5, 1920.



Particular description of goods.—Pianos, Phonographs, and Talking-Machines.
Claims use since Mar. 3, 1916.

Ser. No. 132,075. (CLASS 12. CONSTRUCTION MATERIALS.) THE BEAVER COMPANY, Buffalo, N. Y. Filed May 6, 1920.



Particular description of goods.—Prepared Sheet-Roofing, Roofing-Tiles, Shingles, and Roofing-Cements.
Claims use since Nov. 1, 1919.

Ser. No. 132,086. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) DARLING, MILLER & CO., New York, N. Y. Filed May 6, 1920.



Particular description of goods.—Patches for Repairing Automobile, Motorcycle, and Bicycle Tubes and Casings and Laminated Inner Tubes for Automobiles and Motorcycles.
Claims use since Jan. 1, 1918.

Ser. No. 132,195. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE NEW BRITAIN MACHINE CO., New Britain, Conn. Filed May 8, 1920.



Particular description of goods.—Tractors.
Claims use since Apr. 15, 1920.

Ser. No. 132,214. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WINDSOR PRINT WORKS, North Adams, Mass., and New York, N. Y. Filed May 8, 1920.

CRINKLE

Particular description of goods.—Plain White, Dyed, or Printed Cotton Dress and Underwear Piece Goods.
Claims use since about June, 1912.

Ser. No. 132,216. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WINDSOR PRINT WORKS, North Adams, Mass., and New York, N. Y. Filed May 8, 1920.

KRINKLE

Particular description of goods.—Plain White, Dyed, or Printed Cotton Dress and Underwear Piece Goods.
Claims use since Dec. 21, 1916.

Ser. No. 132,229. (CLASS 38. PRINTS AND PUBLICATIONS.) THE Z. T. BRIGGS PHOTOGRAPHIC SUPPLY CO., Kansas City, Mo. Filed May 10, 1920.



Particular description of goods.—Photographic Prints.
Claims use since Apr. 1, 1920.

Ser. No. 132,285. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AUTOMOTIVE PRODUCTS CORPORATION, New York, N. Y. Filed May 11, 1920.



The right to the exclusive use of the word "Alsace" is hereby disclaimed apart from the mark as shown.
Particular description of goods.—Automobiles.
Claims use since Jan. 1, 1920.

Ser. No. 132,293. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) J. J. BEYERLE MFG. CO., New York, N. Y. Filed May 11, 1920. Under ten-year proviso.



STEAM CURED

Particular description of goods.—Dress-Shields.
Claims use since the year 1876.

Ser. No. 132,294. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) J. J. BEYERLE MFG. CO., New York, N. Y. Filed May 11, 1920.



Particular description of goods.—Dress-Shields.
Claims use since the year 1902.

Ser. No. 132,301. (CLASS 39. CLOTHING.) STELLA S. FLEISHEL, New York, N. Y. Filed May 11, 1920.

"Mme. Jolie."

Particular description of goods.—Negligées, Semidress-Gowns, Wrappers, and Kimonos.
Claims use since Jan. 5, 1918.

Ser. No. 132,350. (CLASS 39. CLOTHING.) A. F. GERLACH MFG. CO., Milwaukee, Wis. Filed May 12, 1920.

DRESSALL

Particular description of goods.—Aprons.
Claims use since September, 1919.

Ser. No. 132,352. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) A. H. GREBE & CO., INC., Richmond Hill, N. Y. Filed May 12, 1920.



No claim is made to the word "Radio" apart from the mark shown in the drawing.
Particular description of goods.—Wireless-Telegraph Apparatus.
Claims use since the summer of 1919.

Ser. No. 132,377. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN ELECTRICAL HEATER CO., Detroit, Mich. Filed May 13, 1920.

American Beauty

Particular description of goods.—Electrical-Heating Appliances and Parts—Namely, Electric Irons, Grills, Warming-Pads, Curling-Irons, Percolators, Water-Heaters, Air-Heaters, Disk Stoves, Glower-Stoves, Pressing-Irons, Toasters, Glue-Pots, Rheostats, Baby-Food Warmers, Chafing Dishes, Hot-Plates, Soldering-Irons, Flexible Cords, and Detachable Plugs.
Claims use since the year 1911.

Ser. No. 132,379. (CLASS 2. RECEPTACLES.) LEON E. BROKMAN, New York, N. Y. Filed May 13, 1920.

QUICK MARY

Particular description of goods.—Receptacles for Holding Strip-Tickets.
Claims use since Apr. 1, 1920.

Ser. No. 132,423. (CLASS 12. CONSTRUCTION MATERIALS.) THE BEAVER COMPANY, Buffalo, N. Y. Filed May 14, 1920.

GRANULITH

Particular description of goods.—Roofing—Namely, Roofing-Shingles and Roofing-Cements.
Claims use since Apr. 27, 1920.

Ser. No. 132,447. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RAPP & DOOLITTLE, Wichita, Kans. Filed May 14, 1920.

"Sweet Smile"

Particular description of goods.—Razors and Shears.
Claims use since Apr. 24, 1920.

Ser. No. 132,475. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LEMON PEKOE TEA CORPORATION, New York, N. Y. Filed May 15, 1920.



No claim being made to the exclusive use of the words "Lemon Pekoe Tea, Javanese. From a Fertile Valley on the Island of Java comes lemon pekoe tea. For years it

has been conserved for private use by the rich estate owners of Java. Only by extended planting, under ideal conditions, has it become available to lovers of delicious tea in the western world. Serve hot or iced. 40 Cedar St., New York" apart from the mark as shown in the drawing.

Particular description of goods.—Tea.

Claims use since Apr. 26, 1920.

Ser. No. 132,478. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NATIONAL RING TRAVELER CO., Providence, R. I. Filed May 15, 1920.

RELEVART

Particular description of goods.—Buttons for Attachment to Wearing-Apparel.

Claims use since Apr. 1, 1920.

Ser. No. 132,480. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NATIONAL RING TRAVELER CO., Providence, R. I. Filed May 15, 1920.

BRIGHTARD

Particular description of goods.—Buttons for Attachment to Wearing-Apparel.

Claims use since Apr. 1, 1920.

Ser. No. 132,555. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PENICK & FORD, LTD., INC., New Orleans, La. Filed May 17, 1920.

Brer Fox

Particular description of goods.—Corn Table-Syrup.

Claims use since Apr. 5, 1920.

Ser. No. 132,573. (CLASS 15. OILS AND GREASES.) A. F. THANE & CO., San Francisco, Calif. Filed May 17, 1920.

GLOBE BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Kerosene.

Claims use continuously since Feb. 1, 1920.

Ser. No. 132,574. (CLASS 15. OILS AND GREASES.) A. F. THANE & CO., San Francisco, Calif. Filed May 17, 1920.

WORLD BRAND

No claim is made to the word "Brand" apart from the mark shown on the drawing.

Particular description of goods.—Kerosene.

Claims use since Feb. 1, 1920.

Ser. No. 132,576. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE J. T. TRACTOR COMPANY, Cleveland, Ohio. Filed May 17, 1920.

JT

Particular description of goods.—Tractors and Parts Thereof.

Claims use since December, 1917.

Ser. No. 132,606. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MANHATTAN BEAD CHAIN COMPANY, New York, N. Y. Filed May 18, 1920.

La Louise

Particular description of goods.—Pearls.

Claims use since Dec. 18, 1919.

Ser. No. 132,619. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed May 18, 1920.

CURRANTLADE

Particular description of goods.—Jam, Jelly, Fruit Preserves, and Conserves.

Claims use since Apr. 29, 1920.

Ser. No. 132,623. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM SELLERS & COMPANY, INCORPORATED, Philadelphia, Pa. Filed May 18, 1920.

SELLERS

Particular description of goods.—Injector Parts.

Claims use since about May 11, 1910.

Ser. No. 132,663. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SWIFT AND COMPANY, Chicago, Ill. Filed May 19, 1920.



Particular description of goods.—Washing-Powder. Laundry Soap, and Soap Chips.

Claims use since the year 1900 on laundry soap; January, 1915, on soap chips, and April, 1916, on washing-powder.

Ser. No. 132,664. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SYDNEY ROSS COMPANY, INC., New York, N. Y. Filed May 19, 1920.



No claim being made to the exclusive use of the word "Soap" apart from the mark shown in the drawing.

Particular description of goods—Toilet Soap.

Claims use since 1913.

Ser. No. 132,720. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE COLORADO VANADIUM CORPORATION, Sawpit, Colo., and New York, N. Y. Filed May 21, 1920.

COL-VAN-CO.

Particular description of goods.—Ferrovanadium Alloys.

Claims use since Mar. 8, 1920.

Ser. No. 132,751. (CLASS 12. CONSTRUCTION MATERIALS.) METAL FORMS CORPORATION, Milwaukee, Wis. Filed May 21, 1920.

METAFORMS

Particular description of goods.—Concrete Forms and Shaping Devices.

Claims use since Feb. 1, 1919.

Ser. No. 132,766. (CLASS 39. CLOTHING.) S. HENRY ADLER, New York, N. Y. Filed May 22, 1920.



The applicant hereby disclaims the word "Clothes" apart from the mark shown on the drawing.

Particular description of goods.—Men's Suits and Overcoats.

Claims use since Nov. 1, 1919.

Ser. No. 132,772. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARRY BRODER, New York, N. Y. Filed May 22, 1920.

BROTEX

The lines in the drawing indicate shading.

Particular description of goods.—Cotton Textile Fabrics—Namely, Ginghams, Voiles, Flannels, Muslins, and Batistes. The Several Named Goods are in the Piece.

Claims use since Apr. 10, 1920.

Ser. No. 132,778. (CLASS 12. CONSTRUCTION MATERIALS.) DESLAURIERS COLUMN MOULD CO., New York, N. Y. Filed May 22, 1920.



Without waiving any common-law right, applicant hereby disclaims the following, "Pioneers in Steel Moulds for Concrete, Trade Mark," apart from the mark shown in the drawing.

Particular description of goods.—Steel Molds for Concrete.

Claims use since May 6, 1920.

Ser. No. 132,802. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ROBERT F. MACKENZIE CO., Cleveland, Ohio. Filed May 22, 1920.

Cara-nut-bar

No claim is made to the word "Nut" and the word "Bar" apart from the other features of the mark shown on the drawing.

Particular description of goods.—Candy.

Claims use since Jan. 1, 1914.

Ser. No. 132,814. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. K. SMALL COMPANY, Los Angeles, Calif. Filed May 22, 1920.

BUDDY



The picture shown on the drawing is fanciful.

Particular description of goods.—Citrus Fruits—Namely, Oranges; Fresh Fruits—Namely, Cantaloups.

Claims use since Jan. 15, 1920.

Ser. No. 132,841. (CLASS 12. CONSTRUCTION MATERIALS.) FRANCIS A. BARTLETT, Stamford, Conn. Filed May 24, 1920.

Bartlett's Flexifill

Particular description of goods.—Arboreal Healing-Cement, Flooring, and Insulating Materials for Heat or Cold.

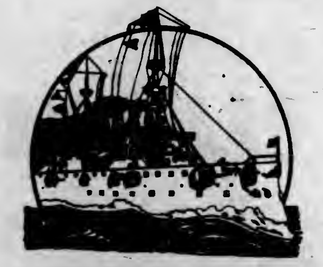
Claims use since Apr. 15, 1920.

Ser. No. 132,905. (CLASS 12. CONSTRUCTION MATERIALS.) WALDO BROS. AND BOND COMPANY, Boston, Mass. Filed May 24, 1920.

GRAIN-KOTE

Consisting of the words "Grain-Kote."
Particular description of goods.—Asphalt Roofing.
Claims use since Mar. 17, 1920.

Ser. No. 132,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BELPRE CO-OPERATIVE EQUITY UNION, Belpre, Kans. Filed May 25, 1920.



HEADLINER

Particular description of goods.—Wheat-Flour.
Claims use since Apr. 9, 1920.

Ser. No. 132,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUSSELL & CO. INC., Cambridge, Mass. Filed May 25, 1920.

Russell's

The name "Russell" appearing on the drawing is a facsimile of the signature of Mr. Elmer A. Russell.
Particular description of goods.—Candy.
Claims use since 1896.

Ser. No. 132,951. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHITE STOKES CO. INC., Chicago, Ill. Filed May 25, 1920.

P.K.K.

Particular description of goods.—A Sweetened Material Used as a Filler and Topping in the Manufacture of Confectionery.
Claims use since Apr. 9, 1920.

Ser. No. 132,972. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAKERS SUPPLY COMPANY, Columbus, Ga. Filed May 26, 1920.

P.D.Q.

Particular description of goods.—A Flavored Pudding-Dessert Mixture.
Claims use since Apr. 20, 1920.

Ser. No. 132,997. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JULIE H. RIEGLER, San Antonio, Tex. Filed May 26, 1920.



Particular description of goods.—Candy.
Claims use since about Nov. 1, 1919.

Ser. No. 133,024. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SCHLESS-HARWOOD COMPANY, New York, N. Y. Filed May 27, 1920.

1-IN 1-

Particular description of goods.—Settings for Articles of Jewelry.
Claims use since Dec. 1, 1919.

Ser. No. 133,067. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DANIEL E. SPEICHER, Urbana, Ind. Filed May 28, 1920.

HORN

Particular description of goods.—Seed-Sowers.
Claims use since 1903.

Ser. No. 133,078. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BUDWINE COMPANY, Athens, Ga. Filed May 29, 1920.

Budwine

Particular description of goods.—Syrup to be Used in the Making of Non-Alcoholic Beverages to be Sold as Soft Drinks and a Non-Alcoholic Maltless Cereal and Non-Cereal Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as a Soft Drink.
Claims use since May 15, 1920.

Ser. No. 133,183. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CLEROLINE CHEMICAL COMPANY, INC., New York, N. Y. Filed June 2, 1920.

CLER-O

Particular description of goods.—Metal-Polish.
Claims use since May 5, 1920.

Ser. No. 133,184. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DOMINANT PRODUCTS CO., New York, N. Y. Filed June 2, 1920.



Particular description of goods.—Liquid Metal-Polish.
Claims use since May 5, 1920.

Ser. No. 133,195. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEST INDIES IMPORTING CO. INC., New York, N. Y. Filed June 2, 1920.



No claim being made to the exclusive use of the representation of the turtle apart from the mark as shown in the drawing.
Particular description of goods.—Food Products—viz., Turtle-Meat and Turtle-Bouillon.
Claims use since May 20, 1920.

Ser. No. 133,219. (CLASS 39. CLOTHING.) JOBBERS OVERALL CO., INC., Lynchburg, Va. Filed June 8, 1920.

"Buddies"

Particular description of goods.—Overalls for Children.
Claims use since May 4, 1920.

Ser. No. 133,222. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MILLER-WALKER LABORATORIES, Detroit, Mich. Filed June 8, 1920.

WHITE DIAMOND

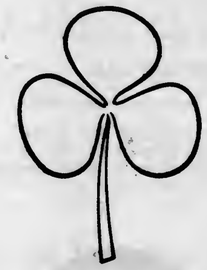
Particular description of goods.—Shoe-Dressing in the Form of a White Dry Powder.
Claims use since June 15, 1918.

Ser. No. 133,232. (CLASS 39. CLOTHING.) CHAS. A. STEVENS & BROS., Chicago, Ill. Filed June 8, 1920.

Evon

Particular description of goods.—Corsets.
Claims use since May 1, 1920.

Ser. No. 133,252. (CLASS 12. CONSTRUCTION MATERIALS.) J. M. CARD LUMBER CO., Chattanooga, Tenn. Filed June 4, 1920.



Particular description of goods.—Rough and Dressed Lumber.
Claims use since June, 1919.

Ser. No. 133,278. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NATIONAL HAIR GOODS CO., Chicago, Ill. Filed June 4, 1920.

NATIONAL BOB

Consisting of the words "National Bob."
Particular description of goods.—Wigs.
Claims use since Nov. 21, 1919.

Ser. No. 133,297. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CURTAINLESS SHOWER COMPANY, New York, N. Y. Filed June 5, 1920.

Palm

Particular description of goods.—Curtainless Shower-Baths.
Claims use since March, 1915.

Ser. No. 133,298. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CURTAINLESS SHOWER COMPANY, New York, N. Y. Filed June 5, 1920.

Beach

Particular description of goods.—Curtainless Shower-Baths.
Claims use since March, 1915.

Ser. No. 133,300. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CURTAINLESS SHOWER COMPANY, New York, N. Y. Filed June 5, 1920.

Congress

Particular description of goods.—Curtainless Shower-Baths.
Claims use since July, 1915.

Ser. No. 133,332. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE SUTRO BROS. BRAID COMPANY, New York, N. Y. Filed June 5, 1920.



Particular description of goods.—Braids, Cords, Shoe-Laces, Corset-Laces, Middy-Laces, Tassels, Girdles, Dress Ornaments, Dress-Trimmings, and Buttons, for Personal Wear of Non-Precious Material.
Claims use since Mar. 23, 1888.

Ser. No. 133,374. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PIEDMONT MFG. CO., Greenville, S. C. Filed June 7, 1920.



Particular description of goods.—Gray Sheetings and Drills in the Piece.
Claims use since February, 1918.

Ser. No. 133,405. (CLASS 39. CLOTHING.) BESSIE DAMSEY, New York, N. Y. Filed June 8, 1920.

MING TOY

Particular description of goods.—Pajamas and Kimonos.
Claims use since about Mar. 1, 1920.

Ser. No. 133,437. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WENCK & CO., New York, N. Y. Filed June 8, 1920. Under ten-year proviso.

BUTTON KIT

Particular description of goods.—Shoe-Buttons and Buttons for Dresses, Clothing, and All Articles of Wearing-Apparel.
Claims use since about 1894.

Ser. No. 133,446. (CLASS 39. CLOTHING.) CRADDOCK-TERRY COMPANY, Lynchburg, Va. Filed June 9, 1920.

Roy-Sloan

Particular description of goods.—Men's and Boys' Shoes of Leather or a Combination of Leather and Fabric.
Claims use since Sept. 1, 1919.

Ser. No. 133,461. (CLASS 39. CLOTHING.) EXCELSIOR UNDERWEAR CO., INC., New York, N. Y. Filed June 9, 1920.

KOOL SEE-BREEZE KUT

Particular description of goods.—Athletic Underwear for Men, Women, and Children.
Claims use since May 14, 1920.

Ser. No. 133,503. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) HENRY P. SCHROEDER, St. Louis, Mo. Filed June 9, 1920.

TABLE QUEEN

Particular description of goods.—Malt Extract.
Claims use since Oct. 24, 1919.

Ser. No. 133,507. (CLASS 12. CONSTRUCTION MATERIALS.) G. H. VOTER, INC., Boston, Mass. Filed June 9, 1920.

PLASTITE

Particular description of goods.—Plastic Roofing Compounds.
Claims use since 1916.

Ser. No. 133,516. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CARTER CARBURETER COMPANY, St. Louis, Mo Filed June 10, 1920.



The words "Carburetor," "Motor Tested," and "St. Louis, U. S. A." being disclaimed except in combination with the other features of the mark shown in the drawing.
Particular description of goods.—Carbureters.
Claims use since May 4, 1920.

Ser. No. 133,594. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BARNEY RUBIN, Chicago, Ill. Filed June 11, 1920.

Operola

Particular description of goods.—Phonographs, Talking-Machines, and Sound-Records.
Claims use since June 24, 1916.

Ser. No. 133,649. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN ELECTRIC COMPANY, Chicago, Ill. Filed June 14, 1920.

Samson

Particular description of goods.—Electric Motors.
Claims use since 1915.

Ser. No. 133,688. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920.

ROBESPIERRE

Particular description of goods.—Talking-Machines, Phonographs, Graphophones, and Music-Boxes.
Claims use since Feb. 1, 1920.

Ser. No. 133,692. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920.

BARDINI

Particular description of goods.—Talking-Machines, Phonographs, Graphophones, and Music-Boxes.
Claims use since Feb. 1, 1920.

Ser. No. 133,699. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920.

TRAYMORE

Particular description of goods.—Talking-Machines, Phonographs, Graphophones, and Music-Boxes.
Claims use since on or about Feb. 1, 1920.

Ser. No. 133,700. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920.

RICHELIEU

Particular description of goods.—Talking-Machines, Phonographs, Graphophones, and Music-Boxes.
Claims use since Feb. 1, 1920.

Ser. No. 133,705. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920.

PEMBROOK

Particular description of goods.—Talking-Machines, Phonographs, Graphophones, and Music-Boxes.
Claims use since Feb. 1, 1920.

Ser. No. 133,706. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920.

DU BARRY

Particular description of goods.—Talking-Machines, Phonographs, Graphophones, and Music-Boxes.
Claims use since Feb. 1, 1920.

Ser. No. 133,708. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920.

NOTRE DAME

Particular description of goods. — Talking-Machines, Phonographs, Graphophones, and Music-Boxes.
Claims use since Feb. 1, 1920.

Ser. No. 133,793. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MARY A. PATTERSON, Amherst, Mass. Filed June 16, 1920.

PATTIP

Particular description of goods.—Bodkins and Tape-Needles.
Claims use since Jan. 28, 1920.

Ser. No. 133,905. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FARNSWORTH, HOYT CO., Boston, Mass. Filed June 18, 1920.

EVE CLOTH

The word "Cloth" in the trade-mark is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Shoe-Cloth in the Piece.
Claims use since July 25, 1915.

Ser. No. 133,955. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed June 21, 1920.

Southern Beauty

Particular description of goods.—Electric Flatirons.
Claims use since Apr. 15, 1920.

Ser. No. 133,982. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GEORGE W. STIVERS, New York, N. Y. Filed June 21, 1920.

FLUTOPHONE

Particular description of goods.—Novelty Wind-Operated Musical Instruments in the Nature of a Whistle.
Claims use since July 7, 1903.

Ser. No. 134,110. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COUDURIER, FRUCTUS & DESCHER, Lyon, France, and New York, N. Y. Filed June 24, 1920.

VERMEIL

Consisting of the word "Vermeil."
Particular description of goods.—Silk Piece Goods.
Claims use since Apr. 7, 1920.

Ser. No. 134,116. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CARAVEL COMPANY, INC., New York, N. Y. Filed June 24, 1920.

CARAVEL



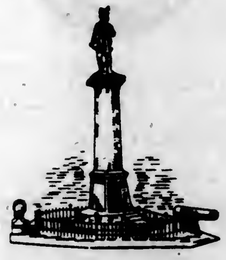
Particular description of goods.—Hand Sewing-Needles and Toilet-Pins and Safety-Pins, Bone Buttons and Metal Buttons for Fastening Articles of Clothing, Shoe-Buckles and Belt-Buckles of Cheap Metal and Composition Material, Rubber Elastic for Garters and Bands, Whalebone and Artificial Whalebone, and Shoe-Laces.
Claims use since about June 20, 1918.

Ser. No. 134,277. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed June 26, 1920.

Fifth Avenue

Particular description of goods.—Hair-Nets.
Claims use since May 1, 1920.

Ser. No. 134,347. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COWPENS MILLS, Cowpens, S. C. Filed June 29, 1920.



COWPENS

Particular description of goods.—Sheetings.
Claims use since Jan. 17, 1920.

Ser. No. 134,389. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) STURM & SCHEINBERG, New York, N. Y. Filed June 29, 1920.

STAR

Particular description of goods.—Garters and Arm-bands and Children's Hose-Supporters.
Claims use since about 1914.

Ser. No. 134,424. (CLASS 38. PRINTS AND PUBLICATIONS.) THE MCCORD CO., San Francisco, Calif. Filed June 30, 1920.

THE DAILY NOTIFICATION SHEET

Particular description of goods.—A Daily Paper.
Claims use since Mar. 25, 1920.

Ser. No. 134,427. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NORTH AMERICAN ELECTRIC LAMP COMPANY, St. Louis, Mo. Filed June 30, 1920.

Lite-O-Nite

Particular description of goods.—Electric Lamps.
Claims use since June 3, 1920.

Ser. No. 134,469. (CLASS 38. PRINTS AND PUBLICATIONS.) GROSSET & DUNLAP, INC., New York, N. Y. Filed July 1, 1920.

THE MAKE-BELIEVE STORIES

Particular description of goods.—A Series of Books Published Periodically.
Claims use since May 15, 1920.

Ser. No. 134,498. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) GEORGE WILLIAMS COMPANY, New York, N. Y. Filed July 1, 1920.



Particular description of goods.—Embroidery Edging, Rick-Rack Braid, Novelty Braid, Bias Seam-Tape, Inside Skirt-Belting, Silk Elastic Garter-Web, Silk Cable Elastic Web, Lisle Elastic, Silk Elastic, Hair-Nets, Cap-Nets, and Human-Hair Nets.
Claims use since about Mar. 15, 1919.

Ser. No. 134,511. (CLASS 38. PRINTS AND PUBLICATIONS.) GEORGE V. HOUSE, New York, N. Y. Filed July 2, 1920.

Kalendograph

Particular description of goods.—Calendars.
Claims use since June 21, 1920.

Ser. No. 134,537. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE DRY GOODS ALLIANCE INC., New York, N. Y. Filed July 3, 1920.

ALLIANCE

Particular description of goods.—Snap-Fasteners, Hooks and Eyes, Hook-and-Eye Tape, Safety-Pins, Paper-Pins, and Dressmakers' Pins.
Claims use since about Jan. 1, 1900.

Ser. No. 134,539. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) R. GINSBERG & BRO., New York, N. Y. Filed July 3, 1920.

The American Girl

Particular description of goods.—Ladies' Hair Goods, Such as Ear-Muffs, Bobs, Side Waves, Switches, Transformations, Pin-Curls, Cluster-Puffs, Neck-Curls, Psyche, Wigs, Braids, Pompadours.
Claims use since Apr. 10, 1918.

Ser. No. 134,550. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK P. SYMONDS, Salem, Mass. Filed July 3, 1920.

CLEANOL

Particular description of goods.—Cleansing Preparations.
Claims use since 1915.

Ser. No. 134,591. (CLASS 38. PRINTS AND PUBLICATIONS.) FRED I. LACKENBACH, San Francisco, Calif. Filed July 6, 1920.

Town Gossip

Printed in red.
Particular description of goods.—Medical Periodical Publication Published Weekly.
Claims use since Oct. 11, 1919.

Ser. No. 134,619. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WIENER BROS., New York, N. Y. Filed July 6, 1920.

Lady Gainsborough

Particular description of goods.—Ladies' Mesh-Handbags.
Claims use since June 15, 1920.

Ser. No. 134,679. (CLASS 38. PRINTS AND PUBLICATIONS.) BERNHARD ULMANN CO., INC., New York, N. Y. Filed July 7, 1920.

BLUE BOOK

Particular description of goods.—An Art-Needlework Publication Issued at Irregular Intervals.
Claims use since about 1912.

Ser. No. 134,682. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) WESTINGHOUSE UNION BATTERY CO., Swissvale borough, Pa. Filed July 7, 1920.

BWCO

Particular description of goods.—Secondary Batteries and Connectors Therefor.
Claims use since July 1, 1920.

Ser. No. 134,683. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE UNION BATTERY CO., Swissvale borough, Pa. Filed July 7, 1920.

WESTINGHOUSE

Particular description of goods.—Secondary Batteries and Connectors Therefor.
Claims use since July 1, 1920.

Ser. No. 134,712. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LUTHY STORAGE BATTERY COMPANY, Newark, N. J. Filed July 8, 1920.

LUTHY

Particular description of goods.—Storage Batteries.
Claims use since Apr. 2, 1920.

Ser. No. 134,713. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CLARA LEVY, New York, N. Y. Filed July 8, 1920.

SKOURNU

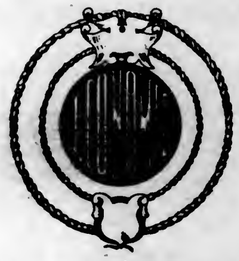
Particular description of goods.—A Gelatinous Substance for Cleaning and Rejuvenating Carpets and for Removing Stains from Clothing, Draperies, Upholstered Furniture, and other Textile Fabrics.
Claims use since about Dec. 15, 1919.

Ser. No. 134,722. (CLASS 12. CONSTRUCTION MATERIALS.) NAILCRETE CORPORATION, Forest Hills, N. Y. Filed July 8, 1920.

NAPPER

Particular description of goods.—Sleepers of Cementitious Material.
Claims use since June 1, 1920.

Ser. No. 134,812. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ECONOMIC MANUFACTURING CO., Paterson, N. J. Filed July 12, 1920.



Particular description of goods.—Hat-Bands, Skirt and Dress Beltings, Pump-Bows, Shoe-Laces, and Braids Made of Silk and Cotton and Garment-Findings.
Claims use since March, 1918.

Ser. No. 134,928. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE UNION BATTERY CO., Swissvale borough, Pa. Filed July 13, 1920.



Particular description of goods.—Secondary Batteries.
Claims use since July 1, 1920.

TRADE-MARK REGISTRATIONS GRANTED

AUGUST 10, 1920.

133,888. GRINDING AND POLISHING WHEELS. ABRASIVE COMPANY, Philadelphia, Pa.
Filed February 6, 1920. Serial No. 128,035. PUBLISHED MAY 4, 1920.

133,889. JEWELRY FOR PERSONAL ADORNMENT, NOT INCLUDING WATCHES. A. B. MANUFACTURING COMPANY, Providence, R. I.
Filed November 24, 1919. Serial No. 125,213. PUBLISHED APRIL 27, 1920.

133,890. SELF-RISING WHEAT-FLOUR. ALBANY GROCERY CO., Albany, Ga.
Filed March 10, 1920. Serial No. 129,483. PUBLISHED APRIL 27, 1920.

133,891. WHEAT-FLOUR. AMENDT MILLING COMPANY, Monroe and Trenton, Mich., and Delta, Ohio.
Filed February 20, 1920. Serial No. 128,643. PUBLISHED APRIL 20, 1920.

133,892. CERTAIN NAMED ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y.
Filed January 30, 1920. Serial No. 127,750. PUBLISHED APRIL 27, 1920.

133,893. OLEOMARGARIN. AMERICAN NUT BUTTER COMPANY, Providence, R. I.
Filed February 19, 1920. Serial No. 128,587. PUBLISHED APRIL 20, 1920.

133,894. WRITING AND PRINTING PAPER. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed February 28, 1920. Serial No. 128,988. PUBLISHED APRIL 27, 1920.

133,895. WRITING AND PRINTING PAPER. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed February 28, 1920. Serial No. 128,989. PUBLISHED APRIL 27, 1920.

133,896. WRITING AND PRINTING PAPER. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed February 28, 1920. Serial No. 128,990. PUBLISHED APRIL 27, 1920.

133,897. PREPARATION FOR POLISHING METAL AND GLASS. FREDERICK E. ANDREWS, New York city, N. Y.
Filed July 17, 1919. Serial No. 120,632. PUBLISHED MAY 11, 1920.

133,898. METAL-POLISH. BENJAMIN H. ARNHEIM, Pittsburgh, Pa.
Filed December 26, 1919. Serial No. 126,440. PUBLISHED MAY 4, 1920.

133,899. SELF-RISING FLOUR. THE ASHLAND MILLING COMPANY, Ashland, Ky.
Filed December 26, 1919. Serial No. 126,435. PUBLISHED MARCH 16, 1920.

133,900. CERTAIN NAMED DAIRY PRODUCTS. ASSOCIATED DAIRYMEN OF CALIF. INC., San Francisco, Calif.
Filed August 8, 1919. Serial No. 121,378. PUBLISHED APRIL 20, 1920.

133,901. COFFEE. AUSTIN-NICHOLS & COMPANY, INC., New York, N. Y.
Filed March 20, 1919. Serial No. 116,734. PUBLISHED MAY 4, 1920.

133,902. HOSIERY AND CHILDREN'S ROMPERS. JOSEPH E. BAER, New York, N. Y.
Filed December 26, 1919. Serial No. 126,446. PUBLISHED APRIL 6, 1920.

133,903. PHONOGRAPHS. THE BALDWIN COMPANY, Cincinnati, Ohio.
Filed January 23, 1920. Serial No. 127,494. PUBLISHED APRIL 27, 1920.

133,904. PHOTO-ENGRAVERS' INKS. JOHN T. BARLOW, Philadelphia, Pa.
Filed March 2, 1920. Serial No. 129,119. PUBLISHED APRIL 20, 1920.

133,905. CERTAIN NAMED FOODS. BASKET STORES COMPANY, Omaha, Nebr.
Filed February 28, 1920. Serial No. 128,996. PUBLISHED APRIL 20, 1920.

133,906. CERTAIN NAMED FOODS. BASKET STORES COMPANY, Omaha, Nebr.
Filed February 28, 1920. Serial No. 128,997. PUBLISHED APRIL 20, 1920.

133,907. MARSHMALLOW CANDY. THE EDW. M. BECKER CO., Cleveland, Ohio.
Filed February 3, 1920. Serial No. 127,885. PUBLISHED MAY 4, 1920.

133,908. TEAS. BERESFORD B. DE MONTMORENCY, Chicago, Ill.
Filed December 29, 1919. Serial No. 126,562. PUBLISHED MAY 4, 1920.

133,909. ACCOUNT-BOOKS. THE BICKMORE CO., Oldtown, Me.
Filed May 28, 1919. Serial No. 118,983. PUBLISHED APRIL 27, 1920.

133,910. CERTAIN NAMED CANNED FRUITS AND CANNED VEGETABLES. BISCEGLIA BROTHERS, San Jose, Calif.
Filed February 24, 1920. Serial No. 128,823. PUBLISHED MAY 4, 1920.

133,911. CLEANING LIQUID ADAPTED FOR GENERAL USE. LOUIS A. BLOCK, New Orleans, La.
Filed February 11, 1919. Serial No. 115,754. PUBLISHED MAY 11, 1920.

133,912. COTTON PIECE GOODS. BOOTT MILLS, Lowell, Mass.
Filed February 12, 1919. Serial No. 115,798. PUBLISHED APRIL 20, 1920.

133,913. CLEANING COMPOUNDS—NAMELY, WALLPAPER CLEANER COMPOSED OF SALT, FLOUR, AND A BINDER. ALLAN K. BOWMAN, Wilkinsburg, Pa.
Filed November 7, 1919. Serial No. 124,639. PUBLISHED MY 11, 1920.

133,914. DOUGHNUTS AND CAKES. EMIL BRAUN, New York, N. Y.
Filed March 13, 1920. Serial No. 129,621. PUBLISHED APRIL 27, 1920.

133,915. PAPER PRODUCTS, AND PARTICULARLY BOND OR OTHER WRITING OR PRINT PAPER. BROWN COMPANY, Portland, Me.
Filed March 8, 1920. Serial No. 129,372. PUBLISHED APRIL 27, 1920.

133,916. ARTICLE OF CONFECTIONERY CONSISTING OF HONEY NOUGAT. WALDO R. BROWNE, Wyoming, N. Y.
Filed October 13, 1919. Serial No. 123,725. PUBLISHED MAY 4, 1920.

133,917. CANDY. WALTER D. BUCHANAN, Greenville, Ohio.
Filed May 1, 1919. Serial No. 118,038. PUBLISHED MAY 4, 1920.

133,918. PREPARED PUDDING. HERBERT J. BUEHLER, Newark, N. J.
Filed August 25, 1919. Serial No. 121,969. PUBLISHED MAY 4, 1920.

133,919. ARTIFICIAL PEARLS. BULOVA-HENSHEL CO., New York, N. Y.
Filed December 11, 1919. Serial No. 125,825. PUBLISHED APRIL 27, 1920.

133,920. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. BUMP CONFECTIONERY CO., Anna, Ill.
Filed September 6, 1919. Serial No. 122,387. PUBLISHED FEBRUARY 3, 1920.

133,921. CERTAIN NAMED FOODS. IWAN BURGER, INC., New York, N. Y.
Filed February 19, 1920. Serial No. 128,592. PUBLISHED APRIL 20, 1920.

133,922. CERTAIN NAMED FOODS. IWAN BURGER, INC., New York, N. Y.
Filed February 19, 1920. Serial No. 128,593. PUBLISHED APRIL 20, 1920.

133,923. DRESSING FOR BRAKE-LININGS AND THE LIKE. GEORGE E. CALHOUN, Amsterdam, N. Y.
Filed February 9, 1920. Serial No. 128,141. PUBLISHED MAY 11, 1920.

133,924. ICE-CREAM, BUTTER, BOTTLED MILK, CANDY, TABLE SYRUP, EGGS, AND CREAM. CAIRO FOOD PRODUCTS COMPANY, Cairo, Ill.
Filed February 3, 1920. Serial No. 127,892. PUBLISHED APRIL 20, 1920.

133,925. CONFECTIONERY—NAMELY, CHOCOLATE BONBONS. CALIFORNIA CHOCOLATE SHOP, INC., Los Angeles, Calif.
Filed January 27, 1920. Serial No. 127,630. PUBLISHED APRIL 20, 1920.

133,926. CONFECTIONERY—NAMELY, CHOCOLATE BONBONS. CALIFORNIA CHOCOLATE SHOP, INC., Los Angeles, Calif.
Filed January 27, 1920. Serial No. 127,631. PUBLISHED APRIL 20, 1920.

133,927. PREPARATION USED FOR APPLICATION TO A TYPEWRITER-PLATEN TO PREVENT SLIPPING. CANT-SLIP CO., Rochester, N. Y.
Filed September 15, 1919. Serial No. 122,685. PUBLISHED MAY 11, 1920.

133,928. FRESH PLUMS. ALEXANDER RAYMOND CARNEY, Fresno, Calif.
Filed September 19, 1919. Serial No. 122,881. PUBLISHED APRIL 27, 1920.

133,929. APPLES IN THEIR NATURAL STATE. CENTRAL STATES ORCHARDS CO., Kansas City, Mo.
Filed July 23, 1919. Serial No. 120,816. PUBLISHED MAY 4, 1920.

133,930. CERTAIN NAMED FOODS. CHAPMAN & SMITH COMPANY, Chicago, Ill.
Filed December 3, 1919. Serial No. 125,531. PUBLISHED APRIL 20, 1920.

133,931. METAL-POLISH. THE G. & H. CHEMICAL CO., INC., New York, N. Y.
Filed January 6, 1920. Serial No. 126,855. PUBLISHED MAY 4, 1920.

133,932. FABRICS OF SILK AND SILK MIXTURES. CHENEY BROTHERS, South Manchester, Conn.
Filed December 20, 1918. Serial No. 114,735. PUBLISHED SEPTEMBER 30, 1919.

133,933. CERTAIN NAMED CANNED FRUITS AND CANNED VEGETABLES. CHINA, JAPAN & SOUTH AMERICA TRADING CO. LTD., San Francisco, Calif.
Filed December 27, 1919. Serial No. 126,507. PUBLISHED APRIL 27, 1920.

133,934. PEANUTS IN THE SHELL AND PEANUT-BUTTER. CLARKE BROS. STORES, Scranton, Pa.
Filed July 21, 1919. Serial No. 120,744. PUBLISHED MAY 4, 1920.

133,935. CHEMICAL CLEANSING COMPOUND FOR TYPEWRITERS AND OTHER METAL TYPE, ENGRAVERS' PLATES, ETCHINGS, AND THE LIKE. THE CLAROTYPE COMPANY, Charleston, S. C., and New York, N. Y.
Filed November 24, 1919. Serial No. 125,219. PUBLISHED MAY 4, 1920.

133,936. CAKES, COOKIES. C. & F. W. COMSTOCK, Port Jefferson Station, N. Y.
Filed August 9, 1919. Serial No. 121,456. PUBLISHED MAY 4, 1920.

133,937. PURE MILK-CHOCOLATE BARS CONTAINING ROASTED ALMONDS AND TOASTED COCOANUT. PAUL K. CONDRELL, Kenmore, N. Y.
Filed December 23, 1919. Serial No. 126,352. PUBLISHED MAY 4, 1920.

133,938. KETTLE-RENDERED LARD. CORN BELT PACKING COMPANY, Dubuque, Iowa.
Filed February 13, 1920. Serial No. 128,342. PUBLISHED APRIL 20, 1920.

133,939. CERTAIN NAMED ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. WARREN R. COX, Cleveland, Ohio.
Filed February 4, 1920. Serial No. 127,960. PUBLISHED APRIL 27, 1920.

133,940. CERTAIN NAMED ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. WARREN R. COX, Cleveland, Ohio.
Filed February 4, 1920. Serial No. 127,961. PUBLISHED APRIL 27, 1920.

133,941. CANDY. CLARENCE A. CRANE, Cleveland, Ohio.
Filed February 20, 1920. Serial No. 128,665. PUBLISHED APRIL 20, 1920.

133,942. CANDY. CLARENCE A. CRANE, Cleveland, Ohio.
Filed February 20, 1920. Serial No. 128,666. PUBLISHED APRIL 20, 1920.

133,943. WHEAT-FLOUR. WASHBURN CROSBY CO., Minneapolis, Minn.
Filed March 8, 1920. Serial No. 129,434. PUBLISHED APRIL 27, 1920.

133,944. WHEAT-FLOUR. WASHBURN CROSBY CO., Minneapolis, Minn.
Filed March 12, 1920. Serial No. 129,614. PUBLISHED APRIL 27, 1920.

133,945. CARBON-PAPER AND TYPEWRITER-RIBBONS. CROWN RIBBON AND CARBON MFG. CO., Rochester, N. Y.
Filed February 14, 1920. Serial No. 128,406. PUBLISHED APRIL 27, 1920.

133,946. CANNED VEGETABLES. CLARENCE O. DAWSON, Blair, Nebr.
Filed February 24, 1920. Serial No. 128,759. PUBLISHED APRIL 20, 1920.

133,947. CANNED VEGETABLES. CLARENCE O. DAWSON, Blair, Nebr.
Filed February 24, 1920. Serial No. 128,760. PUBLISHED APRIL 20, 1920.

133,948. CANNED VEGETABLES. CLARENCE O. DAWSON, Blair, Nebr.
Filed February 24, 1920. Serial No. 128,761. PUBLISHED APRIL 20, 1920.

133,949. CANNED VEGETABLES. CLARENCE O. DAWSON, Blair, Nebr.
Filed February 24, 1920. Serial No. 128,762. PUBLISHED APRIL 20, 1920.

133,950. HAMS, BACON, AND PICNIC-HAMS, OTHERWISE KNOWN AS SMOKED SHOULDERS OR CALIFORNIA HAMS. JACOB E. DECKER & SONS, Mason City, Iowa.
Filed November 28, 1919. Serial No. 125,368. PUBLISHED MAY 4, 1920.

133,951. REFINED AND UNREFINED FATS USED AS LEATHER-DRESSING, OILS, AND GREASES. DE NORDISKE FABRIKER DE-NO-FA AKTIESELSKAB, Christiania, Norway.
Filed July 28, 1919. Serial No. 120,989. PUBLISHED MAY 4, 1920.

133,952. CANDY. CHARLES C. DELMONICO, New York, N. Y.
Filed February 16, 1920. Serial No. 128,426. PUBLISHED MAY 4, 1920.

133,953. ELECTRICAL INSULATION AND INSULATING OBJECTS MADE OF PARCHMENTIZED FIBER. DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa.
Filed June 20, 1918. Serial No. 111,698. PUBLISHED DECEMBER 31, 1918.

133,954. FLOURS AND MEALS EMPLOYED FOR MAKING DIETETIC FOODS. DIETETIC CELLULOSE LABORATORY, Chicago, Ill.
Filed March 15, 1920. Serial No. 129,703. PUBLISHED APRIL 27, 1920.

133,955. WHEAT-FLOUR, BRAN, MIDDLINGS, MIXED FEED, POULTRY FEED, AND DAIRY FEED. A. DODGE & SON CORP., Beverly, Mass.
Filed February 12, 1920. Serial No. 128,297. PUBLISHED MAY 4, 1920.

133,956. CERTAIN NAMED INSULATING MATERIAL. JOHN C. DOLPH COMPANY, Newark, N. J.
Filed October 23, 1919. Serial No. 124,098. PUBLISHED APRIL 20, 1920.

133,957. FLOUR MADE FROM WHEAT. G. H. DULLE MILLING CO., Jefferson City, Mo.
Filed February 18, 1920. Serial No. 128,547. PUBLISHED APRIL 20, 1920.

133,958. SCHOOL-REPORT CARDS, CLASS-RECORD BOOKS, EXCUSE-BLANKS, AND SCHOOL-REGISTERS. THE EDUCATIONAL SUPPLY COMPANY, Painesville, Ohio.
Filed November 15, 1919. Serial No. 124,929. PUBLISHED APRIL 20, 1920.

133,959. MALT-SYRUP USED FOR FOOD PURPOSES—NAMELY, A SUBSTITUTE FOR SUGAR. THE EFLOROSE SUGAR CO., Cincinnati, Ohio.
Filed December 5, 1919. Serial No. 125,609. PUBLISHED APRIL 27, 1920.

133,960. FOOD PRODUCT TO BE USED AS A FOOD FOR INFANTS, ADULTS, AND INVALIDS. FAIRCHILD BROS. & FOSTER, New York, N. Y.
Filed January 27, 1920. Serial No. 127,641. PUBLISHED APRIL 20, 1920.

133,961. ELASTIC WEBS. FAIRE BROS. & CO. LIMITED, Leicester, England.
Filed April 21, 1919. Serial No. 117,659. PUBLISHED MAY 11, 1920.

133,962. SEA FOODS, SUCH AS DRIED BONELESS CODFISH. NEPTUNE FISHERIES, Ocean Grove, N. J.
Filed December 24, 1919. Serial No. 126,419. PUBLISHED MAY 4, 1920.

133,963. AUCTION-SALE OUTFITS. THE FLEX-TIC SUPPLY COMPANY, Harris, Iowa.
Filed December 11, 1919. Serial No. 125,836. PUBLISHED APRIL 20, 1920.

133,964. HAND-OPERATED, PORTABLE, AND STATIONARY FIRE-EXTINGUISHERS. FOAMITE FIRE-FOAM COMPANY, New York, N. Y.
Filed June 12, 1919. Serial No. 119,508. PUBLISHED NOVEMBER 11, 1919.

133,965. SPAGHETTI, MACARONI, VERMICELLI, AND EGG-NOODLES. FORTUNE PRODUCTS COMPANY, Chicago, Ill.
Filed January 31, 1920. Serial No. 127,805. PUBLISHED MAY 4, 1920.

133,966. SPAGHETTI, MACARONI, VERMICELLI, AND EGG-NOODLES. FORTUNE PRODUCTS COMPANY, Chicago, Ill.
Filed January 31, 1920. Serial No. 127,806. PUBLISHED MAY 4, 1920.

133,967. CERTAIN NAMED SOAPS, CLEANSERS, AND METAL-POLISHES. FRAMPTON CHEMICAL CO., Seattle, Wash.
Filed August 12, 1919. Serial No. 121,582. PUBLISHED APRIL 27, 1920.

133,968. PLAIN AND PRINTED BROAD SILKS IN PIECES. FRIEDMAN & MOSS, INC., New York, N. Y.
Filed July 22, 1919. Serial No. 120,792. PUBLISHED MAY 11, 1920.

133,969. TYPEWRITER-RIBBONS AND CARBON-PAPER. GALVESTON TYPEWRITER EXCHANGE, INC., Galveston, Tex.
Filed March 21, 1919. Serial No. 116,771. PUBLISHED MAY 4, 1920.

133,970. CERTAIN NAMED CEREAL PRODUCTS AND A PREPARED CAKE-FLOUR. C. A. GAMBRILL MANUFACTURING COMPANY, Baltimore, Md.
Filed December 23, 1919. Serial No. 126,366. PUBLISHED APRIL 27, 1920.

133,971. PRINTED PUBLICATION PUBLISHED MONTHLY AND AT OTHER INTERVALS. GENERAL MOTORS EXPORT COMPANY, New York, N. Y.
Filed August 22, 1919. Serial No. 121,893. PUBLISHED MARCH 23, 1920.

133,972. WRAPPING-PAPER. GENERAL PAPER AND CORDAGE COMPANY, Pittsburgh, Pa.
Filed February 20, 1920. Serial No. 128,678. PUBLISHED APRIL 27, 1920.

133,973. CERTAIN NAMED BLANK FORMS. THE A. S. GILMAN PRINTING COMPANY, Cleveland, Ohio.
Filed February 10, 1920. Serial No. 128,206. PUBLISHED APRIL 27, 1920.

133,974. BASIC OIL FOR PAINT AND VARNISH BUILDING. JOSEPH F. GLIDDEN, Lakewood, Ohio.
Filed February 19, 1920. Serial No. 128,599. PUBLISHED APRIL 6, 1920.

133,975. PEARLS. GOLDSMITH BROTHERS SMELTING AND REFINING COMPANY, Chicago, Ill.
Filed March 8, 1920. Serial No. 129,380. PUBLISHED APRIL 20, 1920.

133,976. BATTERY-JARS MADE OF HARD OR SEMI-HARD RUBBER OR HAVING RUBBER INCORPORATED THEREIN. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed February 17, 1920. Serial No. 128,492. PUBLISHED APRIL 27, 1920.

133,977. BATTERY-JARS MADE OF HARD OR SEMI-HARD RUBBER OR HAVING RUBBER INCORPORATED THEREIN. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed February 17, 1920. Serial No. 128,494. PUBLISHED APRIL 27, 1920.

133,978. PRESERVED FRUITS, JELLIES, JAMS, MARMALADE, MINCE-MEAT, AND SAUCES MADE OF FRUITS AND VEGETABLES. GORDON & DILWORTH INC., New York, N. Y.
Filed January 30, 1919. Serial No. 115,529. PUBLISHED MAY 4, 1920.

133,979. INK IN TABLET FORM. GOSSELIN TRADING CORPORATION, New York, N. Y.
Filed December 29, 1919. Serial No. 126,578. PUBLISHED APRIL 27, 1920.

133,980. CERTAIN NAMED FOODS. GOULD, WELLS & BLACKBURN CO., Madison, Wis.
Filed May 14, 1917. Serial No. 103,777. PUBLISHED DECEMBER 9, 1919.

133,981. CANNED FRUIT. W. R. GRACE & CO., New York, N. Y., and San Francisco, Calif.
Filed January 8, 1920. Serial No. 126,930. PUBLISHED MAY 4, 1920.

133,982. SOAPS AND SOAP POWDERS. GRAIN SOAPS CORPORATION, Dover, Del., and Jersey City, N. J.
Filed January 8, 1920. Serial No. 126,932. PUBLISHED MAY 4, 1920.

133,983. MINCE-MEAT. GRANGER & COMPANY, Buffalo, N. Y.
Filed February 20, 1920. Serial No. 128,679. PUBLISHED APRIL 20, 1920.

133,984. FOOD-POWDER TO BE USED IN THE PLACE OF WHITES OF EGGS. S. GUMPERT & Co., Brooklyn, N. Y.
Filed February 24, 1920. Serial No. 128,838. PUBLISHED MAY 4, 1920.

133,985. CANDY OF ALL KINDS. D. ELLIS HAMBURGER, Brooklyn, N. Y.
Filed November 21, 1919. Serial No. 125,154. PUBLISHED MAY 4, 1920.

133,986. PREPARATION IN CAKE FORM FOR POLISHING METALS, AND PARTICULARLY NICKEL-PLATED METALS. THE HANSON & VAN WINKLE COMPANY, Newark, N. J.
Filed November 15, 1919. Serial No. 124,935. PUBLISHED MAY 11, 1920.

133,987. PREPARATION IN CAKE FORM FOR POLISHING METALS, AND PARTICULARLY NICKEL-PLATED METALS. THE HANSON & VAN WINKLE COMPANY, Newark, N. J.
Filed November 15, 1919. Serial No. 124,936. PUBLISHED MAY 11, 1920.

133,988. CANDY. ARLANDO T. HARRELL, Chicago, Ill.
Filed February 17, 1920. Serial No. 128,503. PUBLISHED MAY 4, 1920.

133,989. CANDIES. HAWLEY & HOOPS, New York, N. Y.
Filed February 12, 1920. Serial No. 128,302. PUBLISHED APRIL 20, 1920.

133,990. CERTAIN NAMED CANNED FRUITS, DRIED FRUITS, AND CANNED VEGETABLES. HERBERT PACKING CO. INC., San Jose, Calif.
Filed January 27, 1920. Serial No. 127,650. PUBLISHED APRIL 20, 1920.

133,991. CANNED FRUITS—NAMELY, CHERRIES, APRICOTS, PEACHES, PEARS, PLUMS. HERBERT PACKING CO. INC., San Jose, Calif.
Filed February 24, 1920. Serial No. 128,841. PUBLISHED APRIL 27, 1920.

133,992. CATSUP, VINEGAR, PEAS, COFFEE, AND ROLLED OATS. J. F. HALLADAY & SON, Battle Creek, Mich.
Filed December 11, 1919. Serial No. 125,846. PUBLISHED APRIL 27, 1920.

133,993. STOVE-POLISH, STOVE-POLISHING OUTFITS, SHOE-POLISH, SHOE-POLISHING OUTFITS, AND SHOE-CLEANERS. W. R. HOLLINSHEAD COMPANY, Binghamton, N. Y.
Filed August 4, 1916. Serial No. 97,083. PUBLISHED MAY 11, 1920.

133,994. PREPARATIONS FOR THE MODIFICATION OF MILK. HORLICK'S FOOD COMPANY, Racine, Wis.
Filed July 11, 1919. Serial No. 120,457. PUBLISHED MAY 4, 1920.

133,995. COTTON PIECE GOODS. HUNTER MFG. & COM. CO., New York, N. Y.
Filed January 13, 1920. Serial No. 127,086. PUBLISHED MAY 11, 1920.

133,996. DAIRY-FEED. INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn.
Filed December 30, 1919. Serial No. 126,636. PUBLISHED APRIL 27, 1920.

133,997. PIG-MEAL. INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn.
Filed December 30, 1919. Serial No. 126,637. PUBLISHED APRIL 20, 1920.

133,998. CALF-MEAL. INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn.
Filed December 30, 1919. Serial No. 126,638. PUBLISHED APRIL 20, 1920.

133,999. SHORTENING FOR COOKING PURPOSES AND OIL FOR COOKING OR SALAD PURPOSES. INTERSTATE COTTON OIL REFINING COMPANY, Sherman, Tex.
Filed January 9, 1920. Serial No. 126,962. PUBLISHED APRIL 20, 1920.

134,000. PEANUT-BUTTER AND CEREAL COFFEE. JOHNSON EDUCATOR FOOD CO., Boston, Mass.
Filed November 26, 1918. Serial No. 114,375. PUBLISHED APRIL 20, 1920.

134,001. RIBBONS IN THE PIECE. JOHNSON, COWDIN AND CO., INC., New York, N. Y.
Filed October 23, 1919. Serial No. 124,111. PUBLISHED MAY 11, 1920.

134,002. CANE AND MAPLE SYRUP. THE F. N. JOHNSON MAPLE SYRUP COMPANY, Bellefontaine, Ohio.
Filed February 27, 1920. Serial No. 128,973. PUBLISHED MAY 4, 1920.

134,003. COFFEE AND TEA. D. STUART JONES, Washington, D. C.
Filed September 25, 1919. Serial No. 123,125. PUBLISHED MAY 4, 1920.

134,004. FURNITURE AND AUTOMOBILE-BODY POLISHES. ISIDORE KELLERMANN, New York, N. Y.
Filed August 23, 1919. Serial No. 121,940. PUBLISHED APRIL 27, 1920.

134,005. DOUGHNUTS. THE KELLEY-ROBINSON CORPORATION, New York, N. Y., assignor to The So-Lite Company, Incorporated, of New York, N. Y., a Corporation of New York.
Filed January 29, 1920. Serial No. 127,721. PUBLISHED APRIL 20, 1920.

134,006. OLEOMARGARIN. KELLOGG PRODUCTS INC., Buffalo, N. Y.
Filed February 11, 1920. Serial No. 128,270. PUBLISHED MAY 4, 1920.

134,007. NON-ALCOHOLIC, NON-CEREAL, MALTLESS SYRUP FOR USE IN MAKING SODA-WATER BEVERAGES. KEYSTONE FRUIT PRODUCTS COMPANY, Cincinnati, Ohio.
Filed October 21, 1918. Serial No. 113,830. PUBLISHED APRIL 27, 1920.

134,008. CHEESE. J. L. KRAFT & BROS. CO., Chicago, Ill., and New York, N. Y.
Filed January 2, 1918. Serial No. 108,253. PUBLISHED APRIL 20, 1920.

134,009. EGGS FOR HATCHING, AND POULTRY. EARNEST N. LEMON, Lynchburg, Ohio.
Filed March 5, 1920. Serial No. 129,264. PUBLISHED APRIL 20, 1920.

134,010. HAND-WASHING COMPOUNDS. ANDREW J. LEONARD, West Branch, Mich.
Filed December 30, 1919. Serial No. 126,642. PUBLISHED MAY 11, 1920.

134,011. CERTAIN NAMED FOOD. LEOTA FOOD PRODUCTS CO., Oak Park, Ill.
Filed January 20, 1920. Serial No. 127,375. PUBLISHED APRIL 20, 1920.

134,012. CHILDREN'S DRESSES. THE LITTLE GODDESS DRESS CO. INC., New York, N. Y.
Filed May 28, 1919. Serial No. 118,992. PUBLISHED MAY 4, 1920.

134,013. BUTTER. LONGINO & COLLINS, New Orleans, La.
Filed February 3, 1920. Serial No. 127,927. PUBLISHED MAY 4, 1920.

134,014. WATCHES. LORRAINE WATCH CO. INC., New York, N. Y.
Filed October 20, 1919. Serial No. 123,990. PUBLISHED APRIL 27, 1920.

134,015. CANNED FISH—NAMELY, CANNED ABALONE AND CANNED KAMABOCO. LOWER CALIFORNIA PACKING PLANTS, Los Angeles, Calif.
Filed February 24, 1920. Serial No. 128,786. PUBLISHED APRIL 20, 1920.

134,016. STORAGE BATTERIES. LUTHY STORAGE BATTERY COMPANY, Newark, N. J.
Filed February 19, 1920. Serial 128,605. PUBLISHED APRIL 27, 1920.

134,017. CERTAIN NAMED MEDICINES. JOHN F. MCKENNA, Fresno, Calif.
Filed August 21, 1919. Serial No. 121,870. PUBLISHED APRIL 20, 1920.

134,018. CANDY. THE ROBERT F. MACKENZIE CO., Cleveland, Ohio.
Filed January 20, 1920. Serial No. 127,376. PUBLISHED MAY 4, 1920.

134,019. CANDY. THE ROBERT F. MACKENZIE CO., Cleveland, Ohio.
Filed January 20, 1920. Serial No. 127,377. PUBLISHED APRIL 20, 1920.

134,020. CANDY. THE ROBERT F. MACKENZIE CO., Cleveland, Ohio.
Filed January 20, 1920. Serial No. 127,378. PUBLISHED APRIL 20, 1920.

134,021. EMBOSSING COMPOSITION. FREDERICK MALCHOW, Brooklyn, N. Y.
Filed August 19, 1919. Serial No. 121,812. PUBLISHED APRIL 27, 1920.

134,022. CANDIES AND CHOCOLATES. MASON, AU & MAGENHEIMER CONF. MFG. CO., Brooklyn, N. Y.
Filed March 13, 1919. Serial No. 116,549. PUBLISHED MAY 4, 1920.

134,023. FOOD-SYRUP FOR BAKING PURPOSES. OSCAR E. MAURER, San Francisco, Calif.
Filed July 1, 1919. Serial No. 120,172. PUBLISHED MAY 4, 1920.

134,024. ENRICHED PASTRY-FLOUR. R. MAURICE AND COMPANY, LIMITED, Willesden, London, England.
Filed February 27, 1919. Serial No. 116,185. PUBLISHED MAY 4, 1920.

134,025. CERTAIN NAMED FOODS. OSCAR F. MAYER & BRO., Chicago, Ill.
Filed February 24, 1919. Serial No. 116,098. PUBLISHED APRIL 6, 1920.

134,026. CERTAIN NAMED PRINTS AND PUBLICATIONS. MEDICI SOCIETY—AMERICAN BRANCH, INC., Boston, Mass.
Filed June 22, 1917. Serial No. 104,619. PUBLISHED MAY 11, 1920.

134,027. CANNED VEGETABLES AND CANNED FRUITS. J. MENIST COMPANY, INC., New York, N. Y.
Filed October 20, 1919. Serial No. 124,002. PUBLISHED APRIL 20, 1920.

134,028. CERTAIN NAMED FOODS. MEXICAN PRODUCTS CORPORATION, Nogales, Ariz.
Filed February 10, 1920. Serial No. 128,215. PUBLISHED MAY 4, 1920.

134,029. MONTHLY PUBLICATION. MICHIGAN LUBRICATOR COMPANY, Detroit, Mich.
Filed September 13, 1919. Serial No. 122,647. PUBLISHED APRIL 13, 1920.

134,030. CANDY. WILLARD A. MILLER, Cambridge, Mass.
Filed February 10, 1920. Serial No. 128,216. PUBLISHED MAY 4, 1920.

134,031. POWDER TO BE USED AS A WASHING PREPARATION. THE MILLS BROTHERS COMPANY, Cincinnati, Ohio.
Filed January 19, 1920. Serial No. 127,116. PUBLISHED MAY 11, 1920.

134,032. SOAPS. CONRAD G. MOLLER, New Canaan township, Fairfield county, Conn.
Filed April 16, 1919. Serial No. 117,536. PUBLISHED APRIL 27, 1920.

134,033. HIGHEST PATENT FLOUR. MORRISON BROS. MILLS, Jefferson, Okla.
Filed December 27, 1919. Serial No. 126,532. PUBLISHED APRIL 20, 1920.

134,034. CANDY. A. G. MORSE CO., Chicago, Ill.
Filed February 20, 1920. Serial No. 128,692. PUBLISHED MAY 4, 1920.

134,035. WHEAT-FLOUR. JOSEPH MOSKOWITZ, Brooklyn, N. Y.
Filed March 2, 1920. Serial No. 129,148. PUBLISHED APRIL 20, 1920.

134,036. CERTAIN NAMED ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. MULTIPLE ELECTRIC PRODUCTS COMPANY, INC., New York, N. Y.
Filed December 10, 1919. Serial No. 125,793. PUBLISHED MAY 4, 1920.

134,037. OLIVE-OIL. MUSHER & COMPANY, INCORPORATED, Baltimore, Md.
Filed January 24, 1920. Serial No. 127,563. PUBLISHED APRIL 20, 1920.

134,038. SAUCES FOR SEASONING FOODS, PARTICULARLY SOY AND SHOYU SAUCES. SHINSAKU NAGANO, Chicago, Ill.
Filed December 15, 1919. Serial No. 126,053. PUBLISHED APRIL 20, 1920.

134,039. WHEAT-FLOUR. NASHVILLE ROLLER MILLS, Nashville, Tenn.
Filed October 14, 1919. Serial No. 123,777. PUBLISHED APRIL 27, 1920.

134,040. BULLETINS ISSUED MONTHLY IN THE FORM OF PAMPHLETS. THE NATIONAL ASSOCIATION OF EMPLOYMENT MANAGERS, Orange, N. J.
Filed April 4, 1919. Serial No. 117,166. PUBLISHED FEBRUARY 3, 1920.

134,041. TEXTILE FABRIC OF A SILK AND COTTON MIXTURE IN THE PIECE. NEW HAMPTON MILLS, New York, N. Y.
Filed August 8, 1919. Serial No. 121,408. PUBLISHED APRIL 27, 1920.

134,042. GUMMED AND UNGUMMED PAPER AND CLOTH STRIPS IN ROLLS AND STRIPS AND TAPE MOISTENING MACHINES. NEW PRODUCTS COMPANY, Pittsburgh, Pa.
Filed June 5, 1919. Serial No. 119,244. PUBLISHED MAY 4, 1920.

134,043. DAILY PUBLICATION. NEWS SYNDICATE CO., INC., New York, N. Y.
Filed December 12, 1919. Serial No. 125,903. PUBLISHED MARCH 16, 1920.

134,044. CHOCOLATE. NORMA CHOCOLATE COMPANY INC., Brooklyn, N. Y.
Filed February 12, 1920. Serial No. 128,314. PUBLISHED MAY 4, 1920.

134,045. OLEOMARGARIN. THE NORTHERN OHIO BUTTERINE COMPANY, Ashland, Ohio.
Filed March 11, 1920. Serial No. 129,566. PUBLISHED APRIL 27, 1920.

134,046. CEREAL AND SUGAR SYRUPS FOR TABLE PURPOSES. THE NULOMOLINE COMPANY, New York, N. Y.
Filed May 22, 1919. Serial No. 118,791. PUBLISHED MAY 4, 1920.

134,047. OLEOMARGARIN. NUT-GROVE BUTTER COMPANY, Providence, R. I.
Filed March 9, 1920. Serial No. 129,470. PUBLISHED APRIL 20, 1920.

134,048. WHEAT-FLOUR. OMAHA FLOUR MILLS CO., Omaha, Nebr.
Filed March 13, 1920. Serial No. 129,647. PUBLISHED April 27, 1920.

134,049. WHEAT-FLOUR. OMAHA FLOUR MILLS CO., Omaha, Nebr.
Filed March 13, 1920. Serial No. 129,649. PUBLISHED APRIL 27, 1920.

134,050. SILVER-PLATED FLAT-WARE AND SILVER-PLATED TABLEWARE. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y.
Filed January 3, 1920. Serial No. 126,772. PUBLISHED APRIL 27, 1920.

134,051. SARDINES. THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,650. PUBLISHED MAY 25, 1920.

134,052. BRISLING AND SILD, (FREQUENTLY KNOWN GENERICALLY AS SARDINES.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,655. PUBLISHED MAY 11, 1920.

134,053. BRISLING AND SILD, (FREQUENTLY KNOWN GENERICALLY AS SARDINES.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,658. PUBLISHED MAY 11, 1920.

134,054. BRISLING AND SILD, (FREQUENTLY KNOWN GENERICALLY AS SARDINES.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,660. PUBLISHED MAY 11, 1920.

134,055. BRISLING AND SILD, (FREQUENTLY GENERICALLY KNOWN AS SARDINES.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,663. PUBLISHED MAY 11, 1920.

134,056. BRISLING AND SILD, (FREQUENTLY KNOWN GENERICALLY AS SARDINES.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,666. PUBLISHED MAY 11, 1920.

134,057. BRISLING AND SILD, (FREQUENTLY KNOWN GENERICALLY AS SARDINES.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,669. PUBLISHED MAY 11, 1920.

134,058. BRISLING AND SILD, (FREQUENTLY KNOWN GENERICALLY AS SARDINES.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,670. PUBLISHED MAY 11, 1920.

134,059. CANDY. PACKAGE CONFECTIONERY COMPANY, Boston, Mass.
Filed February 20, 1920. Serial No. 128,694. PUBLISHED APRIL 20, 1920.

134,060. NUT-CARAMELS. F. M. PAIST COMPANY, Philadelphia, Pa.
Filed February 16, 1920. Serial No. 128,460. PUBLISHED APRIL 27, 1920.

134,061. CANDY. PALMER CANDY CO., Sioux City, Iowa.
Filed February 20, 1920. Serial No. 128,696. PUBLISHED APRIL 27, 1920.

134,062. CANDY. PALMER CANDY CO., Sioux City, Iowa.
Filed January 31, 1920. Serial No. 127,829. PUBLISHED APRIL 20, 1920.

134,063. HAMS, BACON, AND LARD. F. E. PATRICK-YOUNG CO., Richmond, Va.
Filed February 5, 1920. Serial No. 128,013. PUBLISHED MAY 25, 1920.

134,064. WASHING PREPARATION IN POWDERED FORM. RUDOLPH JOSEPH PESKA, Chicago, Ill.
Filed October 10, 1918. Serial No. 113,667. PUBLISHED MARCH 25, 1919.

134,065. MONTHLY MAGAZINE. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed September 15, 1919. Serial No. 122,724. PUBLISHED FEBRUARY 24, 1920.

134,066. CITRUS FRUITS—NAMELY, ORANGES. PLACENTIA MUTUAL ORANGE ASSOCIATION, Placentia, Calif.
Filed January 20, 1920. Serial No. 127,395. PUBLISHED APRIL 20, 1920.

134,067. CANNED PEACHES, CANNED PEARS, CANNED TOMATOES. POPULAR CANNING CO. INC., Los Angeles, Calif.
Filed February 3, 1920. Serial No. 127,931. PUBLISHED MAY 4, 1920.

134,068. CERTAIN NAMED FOODS. PUREPAKT PRODUCTS COMPANY, Washington, Ind.
Filed October 3, 1919. Serial No. 123,398. PUBLISHED APRIL 20, 1920.

134,069. STOCK FEED. RALSTON PURINA COMPANY, St. Louis, Mo.
Filed February 19, 1920. Serial No. 128,616. PUBLISHED APRIL 20, 1920.

134,070. COTTON PIECE GOODS. CHAS. H. REED, New York, N. Y.
Filed January 10, 1920. Serial No. 127,014. PUBLISHED MAY 11, 1920.

134,071. CITRUS FRUITS—NAMELY, GRAPE-FRUIT. JAMES WILLIAM REED, Imperial, Calif.
Filed January 27, 1920. Serial No. 127,660. PUBLISHED MAY 4, 1920.

134,072. FILTER-PAPER. H. REEVE ANGEL & CO., INC., New York, N. Y.
Filed January 6, 1920. Serial No. 126,839. PUBLISHED APRIL 20, 1920.

134,073. LIGHT-WEIGHT WOVEN SILK AND COTTON FABRICS USED FOR MILLINERY PURPOSES. LOUIS ROESSEL & CO., New York, N. Y.
Filed January 3, 1919. Serial No. 114,978. PUBLISHED MAY 4, 1920.

134,074. SCRATCH FOOD FOR POULTRY, MASH FOR POULTRY, BABY-CHICK SCRATCH, BABY-CHICK MASH. S. A. ROGERS CO., Newark, N. J.
Filed April 5, 1919. Serial No. 117,196. PUBLISHED APRIL 20, 1920.

134,075. WOOLEN CLOTH FOR TAILORING PURPOSES. ROSENBERG BROS., St. Louis, Mo.
Filed May 29, 1919. Serial No. 119,047. PUBLISHED MAY 11, 1920.

134,076. COFFEE AND TEA. THE ROYALL COFFEE COMPANY, Corsicana, Tex.
Filed January 30, 1920. Serial No. 127,774. PUBLISHED APRIL 27, 1920.

134,077. BREAD. RUCH-DAOMPP GROCERY CO., Logansport, Ind.
Filed March 4, 1920. Serial No. 129,248. PUBLISHED APRIL 20, 1920.

134,078. CERTAIN NAMED FRUIT PRESERVES, JAM, AND CANNED SALMON. A. RUPERT COMPANY, INC., Portland, Oreg.
Filed December 27, 1919. Serial No. 126,541. PUBLISHED MAY 4, 1920.

134,079. RABBIT-MEAT. LESLIE ARCHIBALD SCANDRETT, Sydney, New South Wales, Australia.
Filed December 4, 1918. Serial No. 114,487. PUBLISHED MAY 4, 1920.

134,080. LUBRICATING-OILS FOR GUNS, LOCKS, BICYCLES, TYPEWRITERS, AND OTHER DELICATE MACHINERY. LESTER C. SCOTT, San Diego, Calif.
Filed March 12, 1919. Serial No. 116,504. PUBLISHED MAY 4, 1920.

134,081. HOG AND CATTLE FEED. SCHREIBER MILLING & GRAIN CO., St. Joseph, Mo.
Filed November 10, 1919. Serial No. 124,738. PUBLISHED APRIL 20, 1920.

134,082. CANDY. SCHULER CHOCOLATE FACTORY, INC., Winona, Minn.
Filed February 17, 1920. Serial No. 128,526. PUBLISHED APRIL 20, 1920.

134,083. DRIED FRUITS CONSISTING OF APPLES, APRICOTS, PEARS, PEACHES, PRUNES, AND RAISINS PACKED IN BOXES AND BARRELS. SEGGERMAN BROS. INC., New York, N. Y.
Filed February 14, 1920. Serial No. 128,409. PUBLISHED APRIL 27, 1920.

134,084. CHOCOLATE PACKED IN BOXES AND PACKAGES. SEGGERMAN BROS. INC., New York, N. Y.
Filed February 14, 1920. Serial No. 128,410. PUBLISHED APRIL 27, 1920.

134,085. CERTAIN NAMED CANNED FRUITS, JAMS, AND PRESERVES. THE SHAW FAMILY, INC., San Jose, Calif.
Filed February 3, 1920. Serial No. 127,937. PUBLISHED MAY 4, 1920.

134,086. CERTAIN NAMED CANNED FRUITS, JAMS, AND PRESERVES. THE SHAW FAMILY, INC., San Jose, Calif.
Filed February 3, 1920. Serial No. 127,938. PUBLISHED MAY 4, 1920.

134,087. FRESH VEGETABLES—NAMELY, ASPARAGUS — AND FRESH FRUITS — NAMELY, PEARS. EDGAR MAURICE SHEEHAN, San Francisco, Calif.
Filed January 20, 1920. Serial No. 127,402. PUBLISHED APRIL 20, 1920.

134,088. PIANOS. B. SHONINGER CO., New Haven, Conn.
Filed December 23, 1919. Serial No. 126,395. PUBLISHED MAY 4, 1920.

134,089. GASOLENE. SINCLAIR REFINING COMPANY, Chicago, Ill.
Filed July 26, 1918. Serial No. 112,346. PUBLISHED APRIL 27, 1920.

134,090. CONFECTIONERY—NAMELY, CHOCOLATES. SIOUX CANDY COMPANY, Sioux City, Iowa.
Filed December 12, 1919. Serial No. 125,917. PUBLISHED APRIL 20, 1920.

134,091. CERTAIN NAMED ELECTRICAL INSULATING WAXES. SMITH & NICHOLS, INCORPORATED, New York, N. Y., and Boston, Mass.
Filed May 27, 1918. Serial No. 111,223. PUBLISHED APRIL 6, 1920.

134,092. RYE-FLOUR. STERN MILLING COMPANY, INC., Milwaukee, Wis.
Filed July 28, 1919. Serial No. 121,024. PUBLISHED APRIL 20, 1920.

134,093. POLISH FOR ALUMINUM. FRANCIS GURNEY STEWART, Chicago, Ill.
Filed January 6, 1920. Serial No. 126,881. PUBLISHED APRIL 27, 1920.

134,094. POLISH FOR SILVER, GOLD, AND NICKEL. FRANCIS GURNEY STEWART, Chicago, Ill.
Filed January 6, 1920. Serial No. 126,883. PUBLISHED APRIL 27, 1920.

134,095. BUTTER. B. STILLING-ANDERSEN, INC., New York, N. Y.
Filed March 5, 1920. Serial No. 129,288. PUBLISHED APRIL 20, 1920.

134,096. WRAPPING AND PRINTING PAPERS. FRED C. STREPE, New York, N. Y.
Filed March 8, 1920. Serial No. 129,430. PUBLISHED APRIL 27, 1920.

134,097. ROLL COMPOSITION ROOFING AND COMPOSITION SLATE-SURFACE SHINGLES. SUPERIOR BUILDERS SUPPLY CO., Little Rock, Ark.
Filed May 13, 1919. Serial No. 118,450½. PUBLISHED APRIL 6, 1920.

134,098. CHOCOLATES. PETER CAILLER KOHLER SWISS CHOCOLATES CO., INC., New York, N. Y.
Filed November 14, 1919. Serial No. 124,912. PUBLISHED APRIL 20, 1920.

134,099. WHEAT AND RYE FLOUR. W. P. TANNER-GROSS & COMPANY INC., New York, N. Y.
Filed March 13, 1920. Serial No. 129,681. PUBLISHED APRIL 27, 1920.

134,100. WHEAT AND RYE FLOUR. W. P. TANNER-GROSS & COMPANY INC., New York, N. Y.
Filed March 13, 1920. Serial No. 129,682. PUBLISHED APRIL 27, 1920.

134,101. WHEAT AND RYE FLOUR. W. P. TANNER-GROSS & COMPANY INC., New York, N. Y.
Filed March 13, 1920. Serial No. 129,684. PUBLISHED APRIL 27, 1920.

134,102. WHEAT AND RYE FLOUR. W. P. TANNER-GROSS & COMPANY INC., New York, N. Y.
Filed March 13, 1920. Serial No. 129,685. PUBLISHED APRIL 27, 1920.

134,103. BREAD. JOHN R. THOMPSON CO., Chicago, Ill.
Filed December 3, 1919. Serial No. 125,550. PUBLISHED MAY 4, 1920.

134,104. CERTAIN NAMED PAPER AND PAPER PRODUCTS. THE F. C. TRAVER PAPER CO., Chicago, Ill.
Filed January 20, 1920. Serial No. 127,406. PUBLISHED APRIL 27, 1920.

134,105. CERTAIN NAMED JEWELRY. THE TRAUB MANUFACTURING COMPANY, Detroit, Mich.
Filed February 24, 1920. Serial No. 128,806. PUBLISHED APRIL 20, 1920.

134,106. SUGAR. THE TROPICS CORPORATION, New York, N. Y.
Filed January 20, 1920. Serial No. 127,407. PUBLISHED MAY 4, 1920.

134,107. ELECTRIC PORTABLE CABLES. TUBULAR WOVEN FABRIC COMPANY, Pawtucket, R. I.
Filed February 19, 1919. Serial No. 116,015. PUBLISHED APRIL 20, 1920.

134,108. INSULATED-WIRE CONDUCTORS. TUBULAR WOVEN FABRIC COMPANY, Pawtucket, R. I.
Filed March 29, 1919. Serial No. 117,024. PUBLISHED APRIL 20, 1920.

134,109. CHILLI FOOD COMPOSED PRINCIPALLY OF MEAT, PEPPER, AND FLOUR. URBAN URBANY, San Diego, Calif.
Filed October 15, 1919. Serial No. 123,827. PUBLISHED APRIL 20, 1920.

134,110. FINGER-RINGS, PINS, AND BRACELETS. UNCAS MANUFACTURING COMPANY, Providence, R. I.
Filed November 17, 1919. Serial No. 125,089. PUBLISHED APRIL 20, 1920.

134,111. LIQUID CHEMICAL PREPARATION FOR POLISHING SILVERWARE. UNITED DRUG COMPANY, Boston, Mass.
Filed April 28, 1919. Serial No. 117,958. PUBLISHED JANUARY 6, 1920.

134,112. CERTAIN NAMED TOILET SETS MOUNTED IN OR PLATED WITH PRECIOUS METAL. UNITED DRUG COMPANY, Boston, Mass.
Filed January 26, 1920. Serial No. 127,620. PUBLISHED APRIL 27, 1920.

134,113. INFANTS' FOODS, CONDENSED MILK, SUGAR OF MILK, AND MALTED MILK. UNITED DRUG COMPANY, Boston, Mass.
Filed January 26, 1920. Serial No. 127,625. PUBLISHED APRIL 20, 1920.

134,114. CHOCOLATE CANDY. THE UNITED DRUG AND CANDY MANUFACTURING COMPANY, Cleveland, Ohio.
Filed February 10, 1920. Serial No. 128,258. PUBLISHED MAY 4, 1920.

134,115. CERTAIN NAMED FOODS. UNITED WHOLESALE GROCERY CO., Los Angeles, Calif.
Filed February 24, 1920. Serial No. 128,807. PUBLISHED APRIL 20, 1920.

134,116. BLENDED CANE AND MAPLE TABLE-SYRUP. VERMONT MAPLE SYRUP COMPANY, INC., Essex Junction, Vt.
Filed June 10, 1919. Serial No. 119,459. PUBLISHED MAY 4, 1920.

134,117. TALKING-MACHINES. VITANOLA TALKING MACHINE CO., Chicago, Ill.
Filed February 18, 1918. Serial No. 109,112. PUBLISHED APRIL 27, 1920.

134,118. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed January 17, 1920. Serial No. 127,271. PUBLISHED APRIL 20, 1920.

134,119. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed February 28, 1920. Serial No. 129,030. PUBLISHED APRIL 20, 1920.

134,120. AUTO-TOP DYE AND DRESSING IN THE NATURE OF A PRESERVATIVE. THE WATERPROOFINGS MANUFACTURING CO., Scranton, Pa.
Filed December 13, 1919. Serial No. 125,988. PUBLISHED MAY 11, 1920.

134,121. TALKING-MACHINES. JACOB H. WEBER, Brooklyn, N. Y.
Filed July 23, 1919. Serial No. 120,862. PUBLISHED MAY 4, 1920.

134,122. DEVICES FOR TRANSMITTING COMMUNICATION INTO TRANSMITTER OF TELEPHONE SETS. MAXIMILIAN WEIL, New York, N. Y.
Filed October 10, 1918. Serial No. 113,685. PUBLISHED MAY 4, 1920.

134,123. LAUNDRY SOAP. WEST COAST SOAP CO., Oakland, Calif.
Filed April 23, 1919. Serial No. 117,788. PUBLISHED MAY 11, 1920.

134,124. SCRATCH FEED. WESTERN FEED MANUFACTURERS, INC., Chicago, Ill.
Filed January 15, 1920. Serial No. 127,191. PUBLISHED APRIL 20, 1920.

134,125. HORSE FEED. WESTERN FEED MANUFACTURERS, INC., Chicago, Ill.
Filed January 15, 1920. Serial No. 127,193. PUBLISHED APRIL 20, 1920.

134,126. HORSE FEED. WESTERN FEED MANUFACTURERS, INC., Chicago, Ill.
Filed January 15, 1920. Serial No. 127,197. PUBLISHED APRIL 20, 1920.

134,127. RABBIT FEED. WESTERN FEED MANUFACTURERS, INC., Chicago, Ill.
Filed January 15, 1920. Serial No. 127,198. PUBLISHED APRIL 20, 1920.

134,128. SCRATCH FEED. WESTERN FEED MANUFACTURERS, INC., Chicago, Ill.
Filed January 15, 1920. Serial No. 127,199. PUBLISHED APRIL 20, 1920.

134,129. STOCK FEED. WESTERN FEED MANUFACTURERS, INC., Chicago, Ill.
Filed January 15, 1920. Serial No. 127,202. PUBLISHED APRIL 20, 1920.

134,130. COVER-PAPER. THE WHITAKER PAPER COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,090. PUBLISHED APRIL 20, 1920.

134,131. ADVERTISING-CARDS, PUBLICATIONS ISSUED AT IRREGULAR INTERVALS. BERT L. WHITE COMPANY, Chicago, Ill.
Filed October 5, 1918. Serial No. 113,596. PUBLISHED FEBRUARY 10, 1920.

134,132. ADVERTISING-FOLDERS, PUBLICATIONS ISSUED AT IRREGULAR INTERVALS. BERT L. WHITE COMPANY, Chicago, Ill.
Filed October 5, 1918. Serial No. 113,597. PUBLISHED APRIL 13, 1920.

134,133. ADVERTISING-FOLDERS, PUBLICATIONS ISSUED AT IRREGULAR INTERVALS. BERT L. WHITE COMPANY, Chicago, Ill.
Filed October 5, 1918. Serial No. 113,598. PUBLISHED FEBRUARY 10, 1920.

134,134. BRISTOL-BOARD. WHITING PAPER COMPANY, Holyoke, Mass.
Filed February 4, 1920. Serial No. 127,985. PUBLISHED APRIL 27, 1920.

134,135. WRITING-PAPER AND MAILING-ENVELOPS. WHITING PAPER COMPANY, Holyoke, Mass.
Filed February 4, 1920. Serial No. 127,986. PUBLISHED APRIL 27, 1920.

134,136. DRESSING TO BE USED ON LEATHER AND ARTICLES MADE THEREFROM. WHITTEMORE BROTHERS, CORPORATION, Cambridge, Mass.
Filed July 24, 1919. Serial No. 120,898. PUBLISHED MARCH 16, 1920.

134,137. WHEAT-FLOUR. WICHITA MILL & ELEVATOR COMPANY, Wichita Falls, Tex.
Filed December 16, 1919. Serial No. 126,158. PUBLISHED APRIL 27, 1920.

134,138. WHEAT-FLOUR. WICHITA MILL & ELEVATOR COMPANY, Wichita Falls, Tex.
Filed December 16, 1919. Serial No. 126,159. PUBLISHED APRIL 27, 1920.

134,139. SALAD-DRESSING. R. C. WILLIAMS & COMPANY, New York, N. Y.
Filed January 20, 1920. Serial No. 127,410. PUBLISHED APRIL 20, 1920.

134,140. WHEAT-FLOUR. WILMARTH AND RICE, Scranton, Pa.
Filed December 5, 1919. Serial No. 125,641. PUBLISHED APRIL 20, 1920.

134,141. PASTE FOR SHOE-DRESSING. FLORENCE J. WITT, Columbus, Ohio.
Filed October 9, 1919. Serial No. 123,588½. PUBLISHED APRIL 27, 1920.

134,142. PEANUT-BUTTER. WOLDERT PEANUT PRODUCTS CO., Tyler, Tex.
Filed January 6, 1920. Serial No. 126,889. PUBLISHED MAY 4, 1920.

134,143. FRESH ORANGES. ALFRED L. WOODILL, Riverside, Calif.
Filed January 18, 1919. Serial No. 115,302. PUBLISHED APRIL 20, 1920.

134,144. FRESH ORANGES. ALFRED L. WOODILL, Riverside, Calif.
Filed January 18, 1919. Serial No. 115,303. PUBLISHED MAY 4, 1920.

134,145. COMPOUNDED AUTO-WASH USED AS A CLEANSER. THE WOODTITE LABORATORIES, Modesto, Calif.
Filed May 19, 1919. Serial No. 118,720. PUBLISHED MAY 11, 1920.

134,146. WRITING-TABLETS, WRITING-PAPERS, AND CORRESPONDENCE-ENVELOPS. THE WYNNE PAPER CO., New York, N. Y.
Filed February 12, 1920. Serial No. 128,835. PUBLISHED APRIL 27, 1920.

134,147. WATCH AND CLOCK PARTS. HENRY ZIMMERN & COMPANY, INC., New York, N. Y.
Filed December 18, 1919. Serial No. 126,239. PUBLISHED APRIL 27, 1920.

LABELS

REGISTERED AUGUST 10, 1920.

21,957.—*Title:* "BEARS FLUFF POWDER." (For Fluff-Powder.) BEAR BROTHERS CO., Chicago, Ill. Filed April 26, 1918.

21,958.—*Title:* "LIME DROPS." (For Candy.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed June 4, 1919.

21,959.—*Title:* "HANDY CANDY LEMON DROPS." (For Candy.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed June 4, 1919.

21,960.—*Title:* "CINNAMONS." (For Candies.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed March 26, 1920.

21,961.—*Title:* "RADISH." (For Radish-Seeds.) ALFRED J. BROWN SEED COMPANY, Grand Rapids, Mich. Filed February 19, 1920.

21,962.—*Title:* "PASCO." (For Greases.) PAN-AMERICA SUPPLY COMPANY, INC., New York, N. Y. Filed June 10, 1919.

21,963.—*Title:* "S C READY SAUCE." (For a Gravy.) SANTO CARAMELLA, Ridgewood, N. J. Filed February 26, 1920.

PRINTS

REGISTERED AUGUST 10, 1920.

5,281.—*Title:* "HANDY CANDY WINTERGREENS." (For Candy.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed June 4, 1919.

5,282.—*Title:* "HANDY CANDY LEMON DROPS." (For Candy.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed June 4, 1919.

5,283.—*Title:* "HANDY CANDY LIME DROPS." (For Candy.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed June 4, 1919.

5,284.—*Title:* "HANDY CANDY CINNAMONS." (For Candies.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed March 26, 1920.

5,285.—*Title:* "SWEETHEART CHOCOLATES." (For Candy.) THE HARTER CANDY CO., Toledo, Ohio. Filed November 1, 1919.

5,286.—*Title:* "NUCOA CHURN GIRL." (For Substitute for Butter.) THE NUCOA BUTTER COMPANY, New York, N. Y. Filed May 24, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE HALL.

Decided June 12, 1920.

1. PATENTS—CONTINUING APPLICATION DEFINED.

A continuing application is one filed subsequently to another, while the prior application is pending, disclosing all or a substantial part of the subject-matter of the prior application and containing claims to subject-matter common to both applications, both being filed by the same inventor or his legal representative.

2. SAME—SUBSTITUTE APPLICATION FILED AFTER ABANDONMENT OF ORIGINAL.

Where H. filed an application which was allowed, forfeited, renewed, and again allowed and where after the time within which a second renewal could have been filed he filed a second application for the same subject-matter, *Held* that the second application could not be regarded as a continuation of the first.

ON PETITION.

SPEED-VARYING MECHANISM.

Messrs. Emery, Booth, Janney & Varney for the applicant.

NEWTON, *Commissioner:*

This is a petition from a final holding of the Examiner that application Serial No. 813,311, filed January 20, 1914, may not be designated a "continuation" of application Serial No. 420,900, filed March 13, 1908, and renewed January 5, 1911, as application Serial No. 601,001.

Notice of allowance of the first application, Serial No. 420,900, was mailed June 22, 1910. Said application was forfeited and renewed January 5, 1911, under Serial No. 601,001. Notice of allowance of the last-mentioned application (Serial No. 601,001) was mailed March 28, 1913, and the present application (Serial No. 813,311) was filed January 20, 1914.

Renewed application Serial No. 601,001 therefore became abandoned upon failure to pay the final fee within six months from notice of allowance, (March 28, 1913,) which date would be September 28, 1913, more than two years from the first notice of allowance—June 22, 1910. From September 28, 1913, until the filing of the present case—January 20, 1914—was a period in which there was no continuity of applications before the Office. During this period there was no application pending in the Office of which the present application can be called a continuation.

It is well established that an applicant in order to obtain the benefit of an earlier application must have pending a continuity of applications upon which a patent could issue for an invention disclosed in the earlier application. In the present case no such continuity exists, because during the period between September 28, 1913, when the first application became abandoned, to January 20, 1914, applicant had no application for the invention pending in the Patent Office upon which a valid patent could have been granted.

Hien v. *Pungs* (68 O. G., 657; 1894, C. D., 92) involved a case in which Pungs after his application had become abandoned filed a new application. It was held that there was no continuity in the proceedings, and in *Lindsay* v. *Stein*, (1882, C. D., 245; 20 Blatchf., 370,) in which a somewhat similar question was involved, the court in considering an applicant's right, after his application became abandoned, to file a new application for the same invention said:

> There is nothing to prevent a subsequent application. When made, it can derive no aid, as to time, from the prior abandoned application, and the applicant must stand, as to defenses in suits upon the patent, as if the new application were the first application.

In *Carty* v. *Kellogg* (1895, C. D., 83; 73 O. G., 285) Carty filed a second application approximately one month after his first application had become abandoned, and he urged that this second application should be considered as continuous with the first. Assent to this proposition, however, was refused.

In *Barrett* v. *Hart*, (256 O. G., 224; 1918, C. D., 62,) where an application was allowed, forfeited, renewed, and again allowed and after the time within which a second renewal could have been filed a second application disclosing the same subject-matter was filed it was held that the second application could not be regarded as a continuation of the first.

A continuing application is an application filed subsequently to another application, while the prior application is pending, disclosing all or a substantial part of the subject-matter of the prior application and containing claims to subject-matter common to both applications, both applications being filed by the same inventor or his legal representative. Defining it in a simpler way, a continuing application is a development of an applicant's earlier application and which is entitled to the filing date of his

earlier application for a constructive reduction to practice of the common embodiment of his invention in the two applications.

As petitioner's present application was not filed until the prior application upon which it is based had become abandoned, the present application can not be regarded as a continuation of the prior application.

The petition is denied.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

PEMBROKE *v.* SULZER.

Decided May 3, 1920.

PATENTS—INTERFERENCE—DISCLOSURE BY ONE CONTESTANT TO THE OTHER.

In an interference between S. and P. relating to a process of making stencil-paper for use with a sensitized photographic film and to the article made by such process *Held* the evidence of disclosure by S. to P. only proved disclosure of the result to be accomplished rather than the specific article of the issue and the process of producing the same.

Mr. S. T. Cameron, *Mr. W. B. Kerkam*, and *Mr. Taylor E. Brown* for the appellant.

Mr. F. F. Church and *Mr. G. W. Rich* for the appellee.

ROBB, *J.:*

Appeal from a decision of an Assistant Commissioner of Patents in an interference proceeding reversing the decision of the Examiners-in-Chief and awarding priority to Sulzer, whose application was not filed until more than two years after he claims to have made the invention and two months after a patent had been issued to Pembroke, the appellant. The invention relates to stencil-paper and the process of making it. It is defined in six counts, of which the first and fourth will serve as examples:

1. The process of making flexible opaque stencil paper having an opaque coating which can be removed at a single stroke of the stylus which consists in first making a translucent paper non-absorbent, then coating said paper with an opaque coating that will adhere to said paper without penetrating the fiber of the paper said coating being as flexible as the paper but brittle enough to be practically all removed from the paper by a single stroke of the stylus.

4. An article of manufacture consisting of a translucent paper web made water proof by a translucent coating and then coated on one side thereof with a combination of waxy material and opaque pigment.

Sulzer was general superintendent of film manufacture for the Eastman Kodak Company, to which company the application in interference was assigned by him. That company obtained a license and option to purchase the Gaisman process for marking photographic-film negatives. The film-cartridge used by Gaisman includes, in addition to the film and red-paper back, a strip of carbon-paper interposed between them, with the carbon side toward the backing-paper. In practising the process the operator opens a small door or slide in the back of the camera, thus exposing the backing-paper, upon which he writes the desired notation with a stylus. The pressure of the stylus transfers the carbon to the backing-paper and permits the light to penetrate the stencil-paper and photographically imprint the notation upon the film. Sulzer was directed to produce film-rolls for carrying out this process, but he found that ordinary carbon-paper was unsatisfactory for use in connection therewith. On the evening of February 13, 1914, therefore, Mr. Pembroke, highly skilled in the art and president of the Kee-Lox Company, (large manufacturers of carbon-paper,) was informed by Mr. Haste, manager of the Kodak Park Works of the Eastman Kodak Company, that the company required a special carbon-paper which should have certain properties. To quote from the testimony of Mr. Haste:

It should be opaque and free from defects like pinholes and that it should have the property of the carbon being easily removed when written upon with a pencil or stylus, as distinguished from the ordinary carbon paper of which it was required that as many impressions as possible could be taken.

This was the extent of the information given Pembroke by Haste. He did not tell Pembroke of the Gaisman invention or of the purpose for which the desired carbon-paper was to be used, nor did he inform him that it should be waterproof. In other words, Pembroke was told in very general terms that a carbon-paper was desired possessing some, but not all, of the properties mentioned in the claims of the interference. We fully agree with the Examiners-in-Chief that nothing more was disclosed to Pembroke by Sulzer's agent Haste than a result to be accomplished, and that Pembroke is the real inventor of the subject-matter of these claims. (*Scndelback* v. *Gillette*, 22 App. D. C., 168; *Anderson* v. *Wells*, 27 App. D. C., 115; *Robinson* v. *McCormick*, 29 App. D. C., 98; *McKeen* v. *Jerdone*, 34 App. D. C., 163; *Hart & Barber* v. *Wiig*, 49 App. D. C., ——.)

After the completion of his invention, but before manufacturing paper embodying it for the Eastman Kodak Company, Pembroke required and obtained from that company an agreement not to analyze his coating or "dope." Thereafter large quantities of paper were manufactured and sold by him to that company. Having waited until after the issuance of the Pembroke patent to file his application, the burden is upon Sulzer to establish his case beyond a reasonable doubt. Not only has he failed to do this but, in our view, he has failed to establish by even a preponderance of evidence that he and not Pembroke is the inventor of the claims of the issue. We therefore adopt the carefully-prepared and satisfactory opinion of the Examiners-in-Chief, reverse the decision of the Assistant Commissioner, and award priority to Pembroke.

Reversed.

Court of Appeals of the District of Columbia.

ERBEN *v.* YARDLEY.

Decided June 2, 1920.

1. PATENTS—INTERFERENCE—PRIORITY AWARDED TO FIRST TO CONCEIVE AND REDUCE TO PRACTICE.

In an interference contest a finding that one of the parties was prior to the other in conception and reduction to practice is a sufficient basis for an award of priority to him. In this proceeding it is unnecessary to determine what right either party ultimately might have to a patent, the only question involved being that of priority between the parties to the interference.

2. SAME—SAME—ACCESS TO AFFIDAVITS FILED UNDER RULE 75.

Where claims forming the issue of an interference had been rejected in view of a prior patent and the rejection withdrawn by the Examiner in view of affidavits filed under Rule 75, which were then sealed up, upon motion to dissolve, alleging non-patentability in view of such patent, it was not error for the Patent Office to refuse access by the moving party to such affidavits, since the issue raised by the affidavits—patentability—was one in which the moving party had no interest in the interference proceeding.

3. SAME—SAME—ISSUE THAT OF PRIORITY ONLY.

In an interference contest the only question involved on appeal to the Court of Appeals of the District of Columbia is that of priority of invention between the parties, the losing party having no standing to contend that the issue is not patentable, that a third party was the prior inventor, or that there is a statutory bar to the issuance of a patent.

Mr. A. G. Davis and *Mr. Melville Church* for the appellant.

Mr. W. G. Carr for the appellee.

ROBB, *J:*

Appeal from a Patent Office decision in an interference proceeding awarding priority to the senior party Yardley. The invention relates to synchronous-booster rotary converters and is expressed in two counts, which need not be reproduced here.

The Board of Examiners-in-Chief and the Assistant Commissioner, after a careful analysis of the testimony, reached the conclusion that Yardley was the first to conceive and first to reduce to practice, and we are in accord with those findings. Counsel for appellant contend here, as below, that the mere fact that Yardley was the first to conceive and first to reduce to practice is not sufficient ground upon which to base an award of priority to him. The Assistant Commissioner directed attention in his opinion to the fact that such has been the rule in the Patent Office since 1872, and that the rule has received the approval of this court in *Hubbard* v. *Berg* (40 App. D. C., 577) and *Thompson* v. *Storrie* (46 App. D. C., 324.) We can find no sufficient reason for the overturn of this long-established rule and the decision of this court approving it.

In the Patent Office each party, as frequently happens, urged the non-patentability of the issue to the other party, Erben contending that the French patent to Siemens-Schuckert, dated January 20, 1913, anticipates Yardley, and hence that the interference should be dissolved. The Law Examiner ruled against Erben's contention and declined to dissolve the interference. Yardley had satisfied the Primary Examiner on this point by filing affidavits under Rule 75 of the Patent Office, for the purpose of overcoming this reference. Erben contended below, as here, that he should have been permitted to inspect those affidavits.

In *Gueniffet* v. *Wictorsohn* (30 App. D. C., 432) we ruled that it was unnecessary to determine what right either party to an interference ultimately might have to a patent, the only question involved being that of priority between the parties to the interference. In *Lecroix* v. *Tiberg* (33 App. D. C., 586) and in *Gammeter* v. *Thropp* (42 App. D. C., 564) we held, following our decision in *Burson* v. *Vogel*, (29 App. D. C., 388,) that the possible existence of a statutory bar of public use to the issuance of a patent to one of the parties to an interference, is not an issue in that interference. We have repeatedly held that the question of patentability is not before us in an interference proceeding. (*Sobey* v. *Holsclaw*, 28 App. D. C., 65; *Mell* v. *Midgley*, 31 App. D. C., 534, and *Norling* v. *Hayes*, 37 App. D. C., 169.)

The issue here is between the parties to the interference, and the losing party has no standing to contend that a third party really is the prior inventor. That such was the contention in the Patent Office is apparent from the Assistant Commissioner's decision, wherein it is stated:

Erben contends that the issue is not patentable to Yardley since the showing made by him to establish that he made the invention prior to the date of a certain French patent was not sufficient, and Yardley contends that what Erben did was in view of the state of the art not patentable over the disclosure made in what is known as the "Power" article. * * * Neither of these questions is properly to be considered on an appeal on priority.

The Assistant Commissioner clearly was right, for Yardley, even assuming that he was anticipated by the French patent, still would be prior to Erben. Since the issue raised by the affidavits filed by Yardley was one in which Erben had no interest in the interference proceeding, the Patent Office did not err in denying Erben's motion to inspect them.

The decision is affirmed.

Affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Tenn.) The Allison and Pinkney patent, No. 1,112,184, for a cracker-cutting machine, claims 1 and 2, for "pan-skipping" mechanism, *Held* void because the patentees were not the original and first inventors. *J. H. Day Co.* v. *Mountain City Mill Co. et al.*, 264 Fed. Rep., 963.

(U. S. C. C. A. Tenn.) The Ward patent, No. 865,461, for means for moving the cutting mechanism of cracker-cutting machines during the cutting operation in line with and at the same rate of speed as the moving sheet of dough to be cut and for means for removing the scrap from the cut sheet, *Held* void for want of invention over the prior art and not infringed, even if valid, as to the specific mechanical means devised. *J. H. Day Co.* v. *Mountain City Mill Co. et al.*, 264 Fed. Rep., 963.

(U. S. C. C. A. N. Y.) The Nathan patent, No. 873,775, for an innersole for shoes having variously-located pockets for the insertion of filling to correct abnormal tendencies of the foot, *Held* void for lack of invention and anticipation in the prior art. *Nathan Anklet Support Co. Inc. et al.* v. *Cammeyer, Inc.*, 264 Fed. Rep., 968.

(U. S. C. C. A. Calif.) The Bode patent, No. 762,980, issued June 21, 1904, for a soil-pipe connection for closet-bowls, *Held* anticipated by the Dellamore patent, No. 699,497, issued May 6, 1902, and also not infringed by the device sold by defendant. *W. F. Schultheiss Co. et al.* v. *Philips et al.*, 264 Fed. Rep., 971.

(U. S. C. C. A. N. Y.) The Nisbet patent, No. 1,238,803, for a windshield for protecting the tonneau-seats in passenger-cars, claims 2 and 4 *Held* not anticipated, valid, and infringed. *Nisbet* v. *Perkins*, 264 Fed. Rep., 974.

(U. S. C. C. A. Mich.) The Harbeck patent, No. 1,062,002, claim 1, for a vessel having walls made of layers of paper united to each other by a fused cement, *Held* void for anticipation. *American Can Co.* v. *Mulkey Salt Co.*, 264 Fed. Rep., 977.

(U. S. D. C. D. N. J.) The Bayley design patent, No. 49,593, for a lighting-fixture, *Held* valid and not anticipated and also infringed. *Bayley & Sons, Inc.*, v. *Krich*, 264 Fed. Rep., 978.

(U. S. D. C. S. D. N. Y.) The Lindemann patent, No. 1,127,652, for a stove adapted to burn both solid fuel and gas, *Held* not anticipated, valid, and in a somewhat narrow field a pioneer; also *Held* infringed. *A. J. Lindemann & Hoverson Co., Inc.*, v. *J. Rose & Co., Inc.*, 264 Fed. Rep., 983.

Disclaimers.

1,228,790.—*Eric Lambert*, Kansas City, Mo. APPARATUS FOR DRYING WOOD VENEER. Patent dated June 5, 1917. Disclaimer filed July 23, 1920, by the patentee.

Enters this disclaimer—

"To that part of the claim in said specification which is in the following words, to wit:

"2. A dry kiln comprising a rectangular shaped housing, a radiator located in one end of said housing forming an end way thereof and provided with openings through which air may be drawn, the opposite end of said housing closed by an end wall, and an exhaust fan connecting with the interior of said housing through said wall."

1,325,719.—*Jason H. Greenstreet*, Indianapolis, Ind. BOX-BLANK MACHINE. Patent dated December 23, 1919. Disclaimer filed July 28, 1920, by the assignee, by mesne assignments, *Wirebounds Patents Company*.

Enters this disclaimer—

"To claims 13, 14, and 43 of said patent, which are in the following words, to wit:

"13. A machine of the class described comprising, in combination, mechanism for fastening together the cleats and side material of assembled box or crate sections and to secure binding wire thereto; and means for presenting such sections thereto with the parts in proper relationship, comprising separate and independent cleat and sheet forwarding devices, and a common actuating means for synchronously advancing said cleat and sheet forwarding devices.

"14. A machine of the class described having, in combination, cleat-feeding means; separate and independent feeding means for side material associated with cleats; and a common actuating means for operating them synchronously.

"43. In a box blank machine, the combination of a cleat guide, spacing blocks for insertion between cleats, separate and independent sheet-spacing devices, and a common means for advancing said blocks, devices and associated work."

Amendment of Trade-Mark Rules.

(ORDER No. 2,597.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 3, 1920.

Acting under the provisions of section 483 of the Revised Statutes and with the approval of the Assistant Secretary of the Interior, Rules 16, 17, 19, 20, 22, 27, 32, 33, 38, 39, 40, 47, 51, 56, 58, 59, 60, 62, 68, 70, and 73 of the rules of the Patent Office relating to the registration of trade-marks, edition of March 1, 1913, reprinted October 1, 1916, have been amended, and Rules 56 (*a*) and 56 (*b*) have been added, effective July 26, 1920, the amended and added rules reading as follows:

16. A trade-mark may be registered under the act of February 20, 1905, as amended, by any person, firm, corporation, or association domiciled within the territory of the United States, or residing in or located in any foreign country which, by treaty, convention, or law, affords similar privileges to the citizens of the United States, and who is the owner of such trade-mark, and uses the same in commerce with foreign nations, or among the several States, or with Indian tribes, upon payment of the fee required by law and other due proceedings had. (See rules 17 and 20.)

Act of Feb. 20, 1905, sec. 1.

17. Except as provided by section 3 of the act of May 4, 1906, no trade-mark will be registered under the act of February 20, 1905, as amended, to an applicant residing or located in a foreign country unless such country, by treaty, convention, or law, affords similar privileges to the citizens of the United States, nor unless the trade-mark has been registered by the applicant in the foreign country in which he resides or is located, nor until such applicant has filed in this Office a certified copy of the certificate of registration of his trade-mark in the country where he resides or is located. In such cases it is not necessary to state in the application that the trade-mark has been used in commerce with the United States or among the several States thereof.

Act of Feb. 20, 1905, secs. 1, 2, and 4. Act of May 4, 1906, sec. 3.

19. No trade-mark will be registered to an owner domiciled within the territory of the United States unless it shall be made to appear that the same is used as such by said owner in commerce among the several States, or between the United States and some foreign nation, or Indian tribe; no trade-mark, except as provided by section 3 of the act of May 4, 1906, and the act of March 19, 1920, will be registered to an owner residing in or located in a foreign country, unless said country, by treaty, convention, or law, affords similar privileges to the citizens of the United States; no trade-mark will be registered which consists of or comprises immoral or scandalous matter, or which consists of or comprises the flag or coat-of-arms or other insignia of the United States, or any simulation thereof, or of any State or municipality, or of any foreign nation, or which consists of or comprises any design or picture that has been adopted by any fraternal society as its emblem, unless it shall be shown to the satisfaction of the Commissioner of Patents that the mark was adopted and used as a trade-mark by the applicant or applicant's predecessors, from whom title is derived, at a date prior to the date of its adoption by such fraternal society as its emblem and no mark will be registered which is identical with a registered or known trade-mark owned and in use by another, and appropriated to merchandise of the same descriptive properties, or which so nearly resembles a registered or known trade-mark owned and in use by another, and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public, or to deceive purchasers, or, under the act of February 20, 1905, which consists merely in the name of an individual, firm, corporation, or association, not written, printed, impressed, or woven in some particular or distinctive manner or in association with a portrait of the individual, or merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods, or merely a geographical name or term; no portrait of a living individual will be registered as a trade-mark, except by consent of such individual evidenced by an instrument in writing; and no trade-mark will be registered which is used in unlawful business, or upon any article injurious in itself, or which has been used with the design of deceiving the public in the purchase of merchandise, or which has been abandoned. No trade-mark will be registered under section 1 (*b*), act of March 19, 1920, which is registrable under the act of February 20, 1905, as amended, or which has not been in *bona fide* use for one year in international or interstate commerce or commerce with Indian tribes.

Act of Feb. 20, 1905, sec. 5. Act of Feb. 18, 1911. Act of Mar. 19, 1920, sec. 9.

20. Any mark, used in commerce with foreign nations or among the several States or with Indian tribes, may be registered if it has been in actual and exclusive use as a trade-mark of the applicant, or his predecessors from whom he derived title, for ten years next preceding February 20, 1905. Or if it has been registered under the ten-years' proviso for one class of goods, it may be registered for other classes, as provided in section 9 of the act of March 19, 1920.

Act of Feb. 20, 1905, sec. 1. Act of Feb. 18, 1909, sec. 1. Act of Mar. 19, 1920.

22. A complete application comprises:

(*a*) A petition, requesting registration, and if under act of March 19, 1920, so specifying, signed by the applicant. (See Forms 1, 1ª, and 1ᵇ.) An application for registration under the act of February 20, 1905, as amended, may be changed to an application for registration under section 1 (*b*) of the act of March 19, 1920, and no additional fee will be required, but the petition must be correspondingly amended. (See Form 1ª.)

(*b*) A statement specifying the name, domicile, location, and citizenship of the party applying, and if the applicant be a corporation or association, the State or nation under the laws of which organized; the class of merchandise (according to the official classification), and the particular description of goods comprised in such class upon which the trade-mark has actually been used; a statement of the mode in which the same is applied and affixed to the goods, and the length of time during which the trade-mark has been used upon the goods specified. A description of the trade-mark itself shall be included, if desired by the applicant or required by the Commissioner, provided such description is of a character to meet the approval of the Commissioner. (See sec. 29 of the act of February 20, 1905, and Forms 2, 4, 6, and 10.)

(*c*) A declaration complying with section 2 of the act of February 20, 1905, as amended by the act of February 18, 1909, or sections 1 (*b*) or 9 of the act of March 19, 1920. (See Forms 3, 3ª, 5, 7, 8, 8ª, 9, and 11.)

(*d*) A drawing of the trade-mark, signed by the applicant, or his attorney, which shall be a facsimile of the same as actually used upon the goods. (See Rules 36 and 37 and specimen drawing.)

(*e*) Five specimens (*or facsimiles, when from the mode of applying or affixing the trade-mark to the goods, specimens cannot be furnished*) of the trade-mark as actually used upon the goods.

(*f*) A fee of ten dollars.

Act of Feb. 20, 1905, sec. 4.

27. An application for registration of a trade-mark, under the act of February 20, 1905, as amended, filed in this country by any person who has previously regularly filed in any foreign country which, by treaty, convention, or law, affords similar privileges to the citizens of the United States an application for registration of the same trade-mark, shall be accorded the same force and effect as would be accorded to the same application if filed in this country on the date on which application for registration of the same trade-mark was first filed in such foreign country: *Provided*, That such application be filed in this country within four months from the date on which the application was first filed in such foreign country.

Act of Feb. 18, 1911. Act of Mar. 19, 1920, sec. 9.

32. Where application is made under section 5 of the act of February 20, 1905, on the ground that the mark has been in actual and exclusive use as a trade-mark by the applicant, or his predecessors from whom he derived title, for ten years next preceding February 20, 1905, the applicant shall, in addition to the requirements of section 2 of said act, make oath to such actual use of the mark as a trade-mark by himself or his predecessors, or by those from whom title to the same is derived, for the period specified, and that, to the best of his knowledge and belief, such use has been exclusive. (See Form 8.) Or if the application is made under section 9 of the act of March 19, 1920, the same must be correspondingly changed. (See Form 8ª.)

Act of Feb. 20, 1905, sec. 2.

33. If the applicant for registration under the act of February 20, 1905, as amended, resides or is located in a foreign country, the declaration required, unless the application be presented under the provisions of section 3 of the act of May 4, 1906, shall also set forth that the trade-mark has been registered by the applicant, or that an application for the registration thereof has been filed by him in the foreign country in which he resides or is located, and shall give the date of such registration, or of the application therefor, as the case may be. In such cases it shall not be necessary to state that the mark has been used in commerce with the United States or among the States thereof.

Act of May 4, 1906, sec. 3.

If the application be presented under the provisions of section 3 of the act of May 4, 1906, the declaration, in addition to the requirements of Rule 31, must state that the applicant has a manufacturing establishment within the territory of the United States and that the goods upon which the trade-mark is used are the product of such establishment.

Act of Feb. 20, 1905, sec. 6.

38. All complete applications for registration shall be considered, in the first instance, by the Examiner in Charge of Trade-Marks, as if filed under the act of February 20, 1905, as amended, unless otherwise specified in the application. Whenever, on examination of an application, registration is refused for any reason whatever, the applicant will be notified thereof. The reasons for such refusal will be stated, and such information and references will be given as may be useful in aiding the applicant to judge of the propriety of further prosecuting his application. If the Examiner shall find the application unregistrable under the act of 1905, but registrable under the act of 1920, he shall so advise the applicant; and the applicant shall then notify the Office whether he will prosecute such application under the 1905 act, or will accept registration under the 1920 act. Such notification shall be entered on the file and further proceedings governed accordingly.

39. The examination of an application and the actions thereon will be directed throughout to the merits, and in each letter the Examiner shall state or refer to all his objections.

Act of Feb. 20, 1905, sec. 6.

40. If, on examination of an application for the registration of a trade-mark under the act of February 20, 1905, as amended, it shall appear that the applicant is entitled to have his trade-mark registered under the provisions of that law, the mark will be published in the OFFICIAL GAZETTE at least once. Such publication shall be at least thirty days prior to the date of passing the application to registration.

If no notice of opposition be filed within thirty days after such publication, the applicant or his attorney will be duly notified of the allowance of his application, and a certificate of registration will be issued as provided in Rule 58. Marks registered under section 1 (*b*) of the act approved March 19, 1920, may be published when registered.

The weekly issue closes on Thursday, and the certificates of registration of that issue bear date as of the fourth Tuesday thereafter.

47. Before the declaration of interference, all preliminary questions must have been settled by the Examiner in Charge of Trade-Marks, and the trade-mark which is to form the subject-matter of the controversy must have been decided to be registrable, and must have been published at least once in the OFFICIAL GAZETTE of the Patent Office.

Whenever two or more applicants are found to be claiming substantially the same registrable trade-mark, and the application of one of the applicants is ready for publication, or allowance, the Examiner in Charge of Trade-Marks may require the other applicants to put their applications in condition for publication or allowance, within a time specified, in order that an interference may be declared. If any party fail to put his application in condition for publication or allowance within the time specified, the declaration of interference will not be delayed, but after final judgment the application of such party will be held for revision and restriction, subject to interference with other applications or registered trade-marks.

Act of Feb. 20, 1905, secs. 6 and 11. Act of Mar. 2, 1907, sec. 2.

51. Any person who believes he would be damaged by the registration of a mark applied for under the act of February 20, 1905, as amended, may oppose the opposition stating the grounds therefor, within thirty days after the publication of the mark sought to be registered, which notice of opposition shall be accompanied by the fee required by law and shall be verified by the person filing the same before one of the officers mentioned in section 2 of the act of February 20, 1905. An opposition may be filed by a duly authorized attorney, but such opposition shall be null and void unless duly verified by the opposer, within a reasonable time after such filing. A duplicate copy of the notice of opposition must be filed, either with the notice of opposition or within a reasonable time after the filing of the same.

Act of Feb. 20, 1905, sec. 6.

56. Every applicant under the act of February 20, 1905, as amended, whose mark has been twice refused registration by the Examiner of Trade-Marks for the same reasons, upon grounds involving the merits of the application, may appeal to the Commissioner in person upon payment of the fee required by law. Such refusal may be considered by the Examiner of Trade-Marks as final.

There must have been two refusals to register the mark as originally filed, or, if amended in matter of substance, the amended mark, and, except in cases of division, all

preliminary and intermediate questions relating to matters not affecting the merits of the application must have been settled before the case can be appealed to the Commissioner.

56 (*a*). Upon receiving a petition stating concisely and clearly any proper question which has been acted upon by the Examiner in Charge of Trade-Marks which does not involve the merits of a trade-mark claimed under the act of February 20, 1905, as amended, the refusal of registration of such trade-mark, or a requirement for division, and also stating the facts involved and the point or points to be reviewed, an order will be made fixing a time for hearing such petition by the Commissioner, and directing the Examiner to furnish a written statement of the grounds of his decision upon the matters averred in such petition within five days after being notified of the order fixing the day of hearing. The Examiner shall, at the time of making such statement, furnish a copy thereof to the petitioner. No fee is required for such a petition.

56 (*b*). Petition may be taken to the Commissioner from a refusal by the Examiner of Trade-Marks to register a mark under section 1 of the act of March 19, 1920, without a fee.

58. When the requirements of the law and of the rules have been complied with, and the Office has adjudged a trade-mark registrable under the act of February 20, 1905, as amended, and section 1 (*b*) of the act of March 19, 1920, a certificate will be issued, signed by the Commissioner, under the seal of the Patent Office, to the effect that the applicant has complied with the law and that he is entitled to registration of his trade-mark. The certificate shall state the date on which the application for registration was received in the Patent Office and the act under which the mark is registered. Attached to the certificate will be a photolithographed copy of the drawing of the trade-mark and a printed copy of the statement and of the declaration.

Act of Feb. 20, 1905, sec. 11.
Act of Mar. 19, 1920, sec. 1 (b).

59. A certificate of registration under the act of February 20, 1905, as amended, shall remain in force twenty years from its date, except that, in case a trade-mark be previously registered in a foreign country, such certificate shall cease to be in force on the day on which the trade-mark ceases to be protected in such foreign country, and shall in no case remain in force more than twenty years unless renewed.

Act of Feb. 20, 1905, sec. 12.

60. A certificate of registration under the act of February 20, 1905, as amended, may be, from time to time, renewed for like periods on payment of the renewal fees required, upon request by the registrant, his legal representatives, or transferees of record in the Patent Office, and such request may be made at any time not more than six months prior to the expiration of the period for which the certificate of registration was issued or renewed.

Act of Feb. 20, 1905, secs. 12 and 14.

62. A certificate of registration under the act of February 20, 1905, as amended, shall not be issued to an applicant located in a foreign country for any trade-mark, for registration of which he has filed an application in such foreign country, until such mark has been actually registered by him in the country in which he is located.

Act of Feb. 20, 1905, sec. 4.

68. The OFFICIAL GAZETTE of the Patent Office will contain a list of all trade-marks registered, giving, in each case, a statement of the goods to which the trade-mark is applied, the name and address of the applicant, the date of filing and serial number of the application, and when published (see Rule 40), the date of the publication of the trade-mark in the OFFICIAL GAZETTE.

70. All payments of money required for Office fees must be made in specie, Treasury notes, national-bank notes, post-office money-orders, bank-drafts, or certified checks. Money-orders and checks should be made payable to the "Commissioner of Patents."

Rev. Stat. 4935.

73. It shall be the duty of the registrant under the act of February 20, 1905, as amended, and under section 1 (*b*) of the act of March 19, 1920, to give notice to the public that a trade-mark is registered, either by affixing thereon the words "Registered in U. S. Patent Office," or "Reg. U. S. Pat. Off.," or, when from the character and size of the trade-mark, or from its manner of attachment to the article to which it is appropriated, this cannot be done, then by affixing a label containing a like notice to the package or receptacle wherein the article or articles are inclosed; otherwise, on a suit for infringement, no damages shall be recovered except on proof that the defendant was duly notified of infringement, and continued the same after such notice.

Act of Feb. 20, 1905, sec. 28.
Act of Mar. 19, 1920, sec. 1.

R. F. WHITEHEAD,
Acting Commissioner.

Patents Nos. 1,349,553 to 1,350,289.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

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Total	847		

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 11, 1920.

Peter S. Maroosis, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of William S. Maroosis, corner of Washington avenue southeast and Oak street, Minneapolis, Minn., for registration of a trade-mark and trade-mark registered January 28, 1902, No. 37,688, to Peter S. Maroosis, 257 and 259 First avenue south, Minneapolis, Minn., and a notice of such declaration sent by registered mail to said Peter S. Maroosis at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Peter S. Maroosis, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H COULSTON,
First Assistant Commissioner.

Notice of Cancelation.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 2, 1920.

Ampere Manufacturing Co., its assigns or legal representatives, take notice:

A cancelation proceeding having been instituted by this Office upon the application of Diamond Electric Specialties Corporation, 103 South Orange avenue, Newark, N. J., to effect the cancelation of the trade-mark registration of Ampere Manufacturing Co., Nos. 408–412 West Thirteenth street, New York, N. Y., No. 65,605, dated October 8, 1907, and the notice of such proceeding sent by registered mail to the said Ampere Manufacturing Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Ampere Manufacturing Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancelation will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,208,455.

On July 12, 1920, a decision was rendered that George Bedford was not the first inventor of the subject-matter covered by claims 1, 2, 3, 8, and 10 of his Patent No. 1,208,455, subject, "Automatic winding device for phonographs," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,223,582.

On July 13, 1920, a decision was rendered that William C. Hedgcock was not the first inventor of the subject-matter covered by claims 1, 2, and 6 of his Patent No. 1,223,582, subject, "Brake," and no appeal having been taken within the time allowed such decision has become final.

Drawings.

PRECAUTIONS TO BE OBSERVED IN FORWARDING DRAWINGS TO THE UNITED STATES PATENT OFFICE.

Where drawings are to be filed in connection with an application for Letters Patent in the United States Patent Office, each sheet, before it can be accepted by the Office as a part of the application, must be signed in the name of the inventor at the lower right-hand corner, either by him or by an attorney whose written authorization from the applicant is filed in connection with the application. The signatures should never be written on a line parallel with the longer edges of the sheet, one of the shorter edges being always regarded, for the purpose of locating the signatures, as the lower edge of the sheet. The signatures must all be within the margin-lines of the sheet and below the lines of the drawing. The title of the invention should be written with pencil on the back of each sheet of drawings.

When there are filed on the same day two or more applications by the same inventor, each of the documents and drawings belonging to the same application should have placed thereon the same letter or number, which should be different from the letter or number placed upon those of any other of the applications.

It is desirable that all parts of the complete application, including the drawings, be deposited in the Office at the same time. Should, however, the other parts of the application be filed before the drawings are sent, the latter when forwarded should be accompanied by a letter stating the number of sheets inclosed, and that the drawings are to be filed with the other parts of the application, giving the date at which such other parts were filed in the Office, the name of the inventor, and title of the invention. If the application has received a serial number, that should also be given, and it should be indorsed with pencil on the back of each sheet of drawings. The letter should also state; if such be the case, that the new drawings are to be substituted for those previously filed.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business August 7, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Mar. 1	594
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Dec. 15	Feb. 21	961
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 13	Mar. 18	388
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Nov. 17	May 15	1,506
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Apr. 1	May 6	473
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 4	June 7	538
312	7. Games and Toys; Optics; Photography; Velocipedes	Apr. 3	May 10	904
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	May 17	June 7	379
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Feb. 12	Mar. 24	571
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 16	June 18	929
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Mar. 20	Apr. 2	825
222	12. Machine Elements	Dec. 3	May 10	1,162
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling, Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 18	June 3	1,197
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	June 15	680
308	15. Bread, Pastry, and Confection Making; Coating; Glass; Laminated Fabrics and Analogous Manufac-	Nov. 17	Apr. 20	1,207
111	16. tures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics. Radiant Energy; Telegraphy; Telephony	Dec. 17	Dec. 11	895
307	Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; 17. Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	May 28	June 21	238
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 23	Apr. 19	1,180
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 12	Feb. 14	656
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	May 3	May 10	657
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 9	June 18	526
249	22. Aeronautics; Firearms; Ordnance	May 18	June 7	278
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 13	May 11	732
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Feb. 21	May 1	610
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 28	July 3	194
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Dec. 10	Jan. 17	767
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Apr. 3	May 11	582
225	28. Internal-Combustion Engines	Feb. 16	Apr. 9	765
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Feb. 12	June 4	610
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 19	June 19	1,126
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 24	Feb. 16	1,252
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Nov. 13	Apr. 29	1,226
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 3	Apr. 20	518
304	34. Electricity-Transmission to Vehicles; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	Mar. 30	July 8	263
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	June 21	June 18	481
204	36. Automatic Weighers; Dryers; Geometrical Instruments; Measuring Instruments; Force Measuring	Feb. 11	Feb. 27	1,205
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 6	Mar. 18	1,362
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Mar. 20	Apr. 24	812
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 15	Nov. 14	1,279
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 5	Feb. 25	876
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Dec. 19	May 3	844
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Feb. 12	Mar. 11	1,050
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Dec. 13	Mar. 16	990
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Apr. 17	May 15	316
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Feb. 2	May 11	701
264	46. Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Jan. 6	Apr. 19	526
332	47. Brakes; Clutches; Fluid Pressure Brake and Analogous Systems	Dec. 3	Feb. 17	903

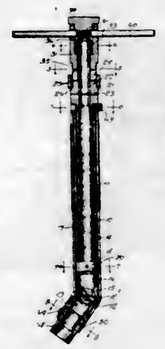
Oldest new case, Oct. 15; oldest amended, Nov. 14.
Total number of applications awaiting action 36,764

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Feb. 14	July 3	2,642
	Designs	Mar. 17	Apr. 27	737
	Labels and Prints	Apr. 1	July 16	789

PATENTS

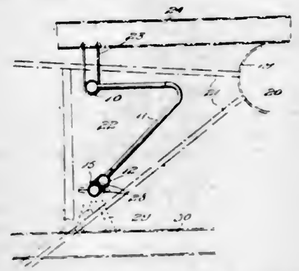
GRANTED AUGUST 17, 1920.

1,349,553. HAND-TOOL. JOSEPH RENÉ AYOTTE, Chicago, Ill. Filed Oct. 1, 1919. Serial No. 327,741. 5 Claims. (Cl. 81—177.)



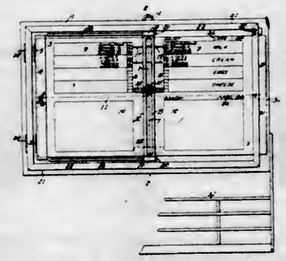
1. A tool of the character described, having in combination a tubular non-rotatable jacket; a bit holder in one end of the jacket; a two-part telescoping, rotatable tube, consisting of an inner and an outer member within said jacket; one member connected to the bit holder; a handle rotatable on the outer end of the extendable tube member, outside of the jacket and a ratchet between the handle and the outer end of the extendable tube member.

1,349,554. SUPERHEATER. JOHN P. BADENHAUSEN, Philadelphia, Pa. Filed May 27, 1916. Serial No. 100,266. 1 Claim. (Cl. 122—476.)



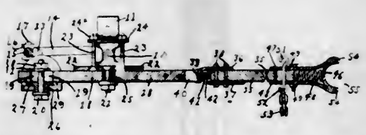
In a superheater for steam boilers, the combination of a pair of vertically spaced relatively long headers of substantially equal and uniform diameters extending transversely of the boiler space, said headers being open at one end thereof and closed at the other end thereof, one of said headers being provided with a pair of alined chambers and the other of said headers having a single chamber, a third relatively short header of substantially the same diameter as said long headers and independent of said long headers and located in parallel relation to said last mentioned long header and secured thereto, said third header being closed at both ends and having a single chamber, a plurality of laterally extending V-shaped tubes connecting the chamber of said third header with the chambers of said first header, and a plurality of laterally extending V-shaped tubes connecting the first and second mentioned headers near the closed ends thereof, the open ends of said headers being on the same side of the boiler, said V-shaped tubes being located in the first pass of the boiler whereby the hot gases may successively contact with the lower and upper portions thereof and whereby the steam flowing therethrough has a travel transversely of the boiler.

1,349,555. SYSTEM FOR INDICATING AND RECORDING ORDERS. WILLIAM H. BELL, Mount Vernon, N. Y. Filed Dec. 17, 1919. Serial No. 345,468. 13 Claims. (Cl. 101—113.)



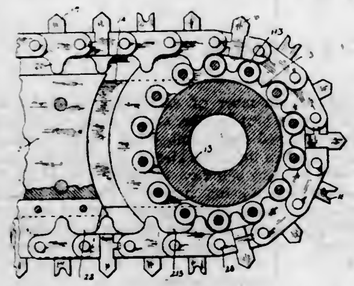
12. A device of the class described having means adapted to receive a sheet carrying duplicate item columns, of a marking device mounted between said columns and adapted to move between and along said columns for therewith marking any pair of duplicate items in said columns.

1,349,556. TOWING DEVICE. ALFRED LEONARD BLOMQUIST, Gowrie, Iowa. Filed Aug. 11, 1919. Serial No. 316,897. 1 Claim. (Cl. 280—33.5.)



In a device of the class described, a tongue having a slot formed adjacent to one end thereof, and an opening intermediate of its ends, a pin extended through and pivotally mounted within said opening, a clamping device mounted on said pin adapted to receive the front axle of a vehicle, a bolt extended through the slot and adapted to slide from one end thereof to the other, a sleeve mounted on said bolt, having an annular, outwardly extending flange at one end adapted to engage the surface of said tongue adjacent to said slot, whereby tightening of the bolt may draw the flange against the tongue to hold the bolt from movement within the slot, and a clamping device rotatably mounted on said sleeve and adapted to engage the steering rod, whereby the distance between the bolt and pin may be selectively adjusted to correspond to the length of a steering arm on a vehicle axle.

1,349,557. CHAIN SAW. GEORGE G. F. BOSWELL, Indianapolis, Ind., assignor of one-eighth to Virgil H. Lockwood and one-eighth to Ralph G. Lockwood, Indianapolis, Ind. Filed Sept. 14, 1914, Serial No. 861,604. Renewed Dec. 20, 1918. Serial No. 267,714. 8 Claims. (Cl. 143—32.)



7. A chain saw machine including a plurality of tooth carrying chains, and means for moving said chains lengthwise and arranged to cause them to be spread apart during the cutting movement and brought together during the return movement through the kerf.

1,349,558. REFLECTING DEVICE. ALAN CALVERT Philadelphia, Pa. Filed Oct. 7, 1919. Serial No. 329,108. 6 Claims. (Cl. 45—99.)



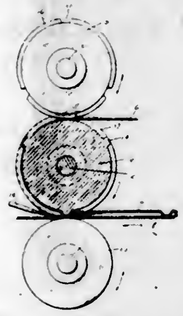
1. A reflecting device consisting of a combination of mirrors, and a supporting and connecting member therefor adapting the mirrors to be longitudinally adjusted as to distance to and from each other by said member, and means on the support and mirrors adapting the latter to be automatically angularly adjusted relatively to each other by the motions of said member.

1,349,559. WHEEL AND AXLE CONSTRUCTION. JAMES A. CARTER, St. Louis, Mo. Filed Dec. 27, 1918. Serial No. 268,483. 2 Claims. (Cl. 152—28.)



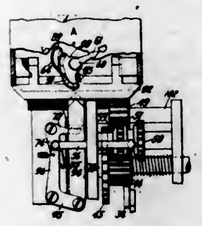
1. In an axle and wheel construction, a main axle, an axle-extension, a joint connecting the main axle and the axle-extension, whereby the axle-extension is movable both with and universally relatively to the main axle, an inner wheel-portion mounted upon the main axle and including a hub-member and an annular cushion, and an outer wheel-portion mounted upon the axle extension and including a hub-member and an annular rim, said hub-members being adapted to complementingly house said joint and the cushion of the inner wheel-portion being disposed within the rim of the outer wheel-portion.

1,349,560. PROCESS AND APPARATUS FOR PRODUCING A HOLLOW RUBBER BISCUIT. HENRY Z. COBB, New York, N. Y., assignor to The Mechanical Rubber Company, a Corporation of New Jersey. Filed Sept. 23, 1919. Serial No. 325,654. 11 Claims. (Cl. 18—19.)



1. In a machine for making hollow rubber biscuits from sheet stock, means for forming one sheet with a series of depressions connected and surrounded by flat portions of the sheet, and means for joining a second sheet under pressure to said flat portions.

1,349,561. COMPUTING-MACHINE. CLIFTON B. CORELL, New York, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Sept. 14, 1918. Serial No. 254,078. 26 Claims. (Cl. 235—59.)

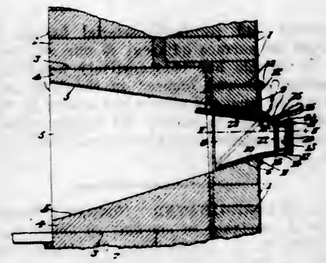


1. In a typewriting machine, the combination with a traveling carriage and a totalizer settable thereon, of a master wheel for effecting computations in said totalizer, typewriter numeral keys for causing the master wheel to effect such computations, connections whereby said keys cause the turning of said master wheel in either direction, and a device mounted in said totalizer adapted to be set to cause said connections to be effective additively or subtractively.

5. In a typewriting machine, the combination with a traveling carriage and a totalizer adapted to be set on said carriage, of a master wheel for effecting computations in said totalizer, a plurality of cam bars mounted in said totalizer, a plurality of followers adapted to control the master wheel, and a finger-piece on the totalizer for selectively projecting said cam bars to operate the followers.

19. In a typewriting machine, the combination with a traveling carriage and a totalizer settable thereon, of a master wheel for effecting computations in said totalizer, a cam in said totalizer, a bichrome mechanism for said typewriter, a finger-piece for making said cam effective or ineffective, a follower for said cam, a second finger-piece, and means controlled by said second finger-piece to connect the bichrome mechanism to the follower to vary the color of the printing.

1,349,562. OBSERVATION-WINDOW FOR FURNACES. MALCOLM CURRY, Scarsdale, N. Y., assignor of one-half to Starr H. Barnum, New Haven, Conn. Filed July 17, 1919. Serial No. 311,634. 14 Claims. (Cl. 126—200.)



1. The combination with a furnace provided with a peep opening communicating with the fire-box thereof, of an observation window fixed to the furnace in position to close the peep opening at all times and having an inner panel of transparent heat-resisting material and an outer panel of transparent glare-eliminating material arranged in spaced relation and registering at all times with the peep opening, both of said panels being supported in the window-frame at points distant from the furnace wall so as to be accessible for renewal without dismantling the apparatus.

1,349,563. WIRE-STRIPPER. CHARLES T. DAY, Oceanport, N. J. Filed Dec. 2, 1919. Serial No. 341,972. 2 Claims. (Cl. 81—9.5.)



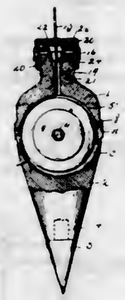
3. A wire stripper comprising opposed pivoted jaws with faces adapted to abut, cutting edges adapted to engage an element to sever it, and stripping edges of material length and substantially parallel and set back from the abutting faces so that the stripping edges are spaced apart when the jaws are shut, said abutting faces, cutting edges and stripping edges being substantially alined in a plane parallel to the axis of the pivot of the jaws.

1,349,564. WRENCH. CHARLES EVITS and CHARLES BENNER, Benton Harbor, Mich. Filed May 28, 1919. Serial No. 300,441. 1 Claim. (Cl. 81—164.)



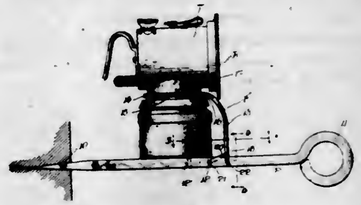
In a pipe wrench, a head having a long arm, the end of said arm formed at a right angle therewith forming a permanent jaw, a short arm parallel with the long arm and integral therewith, a sliding jaw mounted between the two arms, a tubular arm securely connected with the head of the wrench and extending backwardly therefrom opposite from the arms, a screw threaded bolt passing through said tubular arm and revolubly connected with the sliding jaw, and a tubular guard upon the outer end of the threaded bolt and passing over the tubular arm as a guard.

1,349,565. PLUMB-BOB. JAMES A. EWING, Springdale, and EDWARD J. MCGOWAN, Tarentum, Pa. Filed Mar. 5, 1919. Serial No. 280,690. 2 Claims. (Cl. 33—217.)



2. A plumb-bob having a centrally-located recess, a spring-actuated winding drum arranged in said recess, a plumb-line attached to said drum, said recess having an axially-located opening leading therefrom, a perforated screw-cap closing said opening, clamps engaging with said plumb-line and operated by the contact pressure of said screw-cap, and a means comprising a washer or nut for confining said clamps in position.

1,349,566. LAMP-HOLDER. WILLIAM J. FRISBIE, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 3, 1920. Serial No. 378,414. 7 Claims. (Cl. 248—20.)

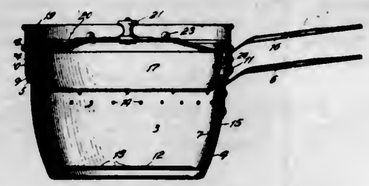


1. In a lamp holder of the class described, the combination of a pin having a hole therein, a frame having a laterally extending end section and a laterally extending intermediate section for engaging respectively in said hole and on said pin, the upper end of said frame being formed to span a lamp at an intermediate part thereof to thereby hold said lamp on said pin.

1,349,567. COOKING UTENSIL. KARL GAMMEL, Cleveland, Ohio, assignor to The Cleveland Macaroni Company, Cleveland, Ohio. Filed Mar. 3, 1916. Serial No. 81,814. 2 Claims. (Cl. 53—8.)

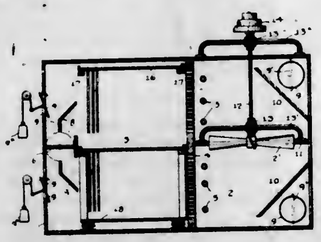
1. An open top cooking utensil including a body portion and an upper portion enlarged from the body portion to form an internal annular seat below the upper edge of the utensil, handles mounted on the outside of the utensil, rivets for fastening the handles in place, portions of said rivets extending into the enlarged upper portion of the utensil and spaced a short distance above said internal

annular seat to form stops for resisting the unseating movement of any cover fitted on the seat and a cover supported from said seat and fitted within the enlarged



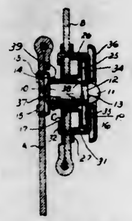
portion of the utensil, said cover adapted to engage the stop portions of said rivets to spring the sides of the utensils thereby to permit the withdrawal of the cover.

1,349,568. PROCESS OF DRYING MACARONI AND OTHER EDIBLE PASTES. KARL GAMMEL, Cleveland, Ohio. Filed Nov. 5, 1917. Serial No. 200,305. 2 Claims. (Cl. 34—24.)



1. The process of drying macaroni which consist in subjecting the same to an air current of a relatively high velocity at normal atmospheric humidity, then decreasing the velocity of the air current and increasing its humidity, again increasing the velocity of the air current and subsequently decreasing the velocity of the air current and lowering its humidity to atmospheric conditions.

1,349,569. CURTAIN-FASTENER. FRANKLIN H. HART, New Haven, Conn. Filed Jan. 15, 1920. Serial No. 351,607. 8 Claims. (Cl. 24— 218.)



2. As an article of manufacture, a snap fastener consisting of a stud and socket, said stud having a circumferential shoulder, and said socket comprising a tubular portion having triangular holes therein, a curved spring having parallel ends, said parallel ends resting against the outer walls of said triangular holes, and means carrying said tubular portion and spring.

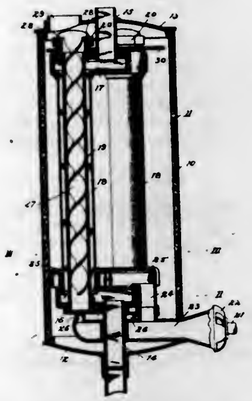
1,349,570. LAUNDRY-MARKING CLIP. RAY HOFFMAN, Newport, Ky., assignor to National Marking Machine Company, Cincinnati, Ohio. Filed Oct. 6, 1919. Serial No. 328,892. 8 Claims. (Cl. 40—23.)

5. In a laundry holding clip adapted to be detachably mounted upon laundry articles, a body member of comparatively stiff resilient material, and a flap member of flexible but comparatively non-resilient material, having one end secured to the body member whereby articles may be selectively engaged and released by the clip by moving the free end of the flap member toward and from the body member, and means formed integral with the body member adapted to receive a laundry supporting hook fixed in a laundry marking clip, a body member of



comparatively stiff resilient material having a tongue raised from its surface adjacent to one end, and a flap member of flexible but comparatively non-resilient material having one end secured to the body member in position spaced from the tongue and having an opening in the second adapted to receive the tongue when the free end of the flap member is in position substantially parallel with the body member.

1,349,571. WATER-HEATER. NORMAN HUBBARD, Elizabeth, N. J., assignor of one-half to Perez M. Stewart, New York, N. Y. Filed June 30, 1917. Serial No. 177,949. 4 Claims. (Cl. 122—348.)



1. A water heater comprising in combination, a water inlet below and a water outlet above, means for subdividing the water on its way from inlet to outlet into a plurality of upright annular columns, means for locally producing a heating flame within the lower portion of the space inclosed by each of said annular columns, and an annular burner surrounding the lower portion of each annular column for locally producing a ring of heating flame in proximity to the outer surface thereof.

1,349,572. BOOT. CLARENCE W. HUBBELL, Naugatuk, Conn., assignor to The Goodyear's India Rubber Glove Manufacturing Company, a Corporation of Connecticut. Filed Nov. 7, 1919. Serial No. 336,371. 4 Claims. (Cl. 36—4.)

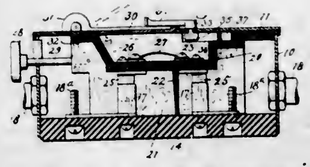
2. As an article of manufacture, a boot having a foot portion and a skirt extending up over the leg, the foot portion having a continuous tubular upper formed by quarters joined together at the front by a foldable placket member covering the instep and the lower portion of the leg immediately adjacent the ankle, lacing flies on said foot

portion at the junctions of said quarters and placket member, the skirt being continuous or tubular and having



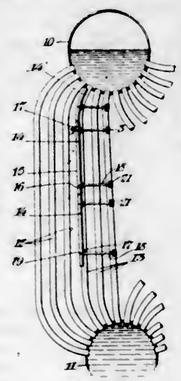
only a single longitudinal lap seam, the foot portion being made of reinforced material and the skirt being made of more flexible material than the foot portion.

1,349,573. ELECTRIC SWITCH. ELMER G. KERMODE, Cleveland, Ohio. Filed Jan. 25, 1916. Serial No. 74,121. 4 Claims. (Cl. 200—50.)



2. An electric switch comprising stationary contacts, a movable switch member having a pair of contacts and a fuse normally connecting the same, an inclosure for the switch forming with the movable switch member a fuse compartment, and a swinging door hinged to said inclosure and controlling access to said fuse compartment, said door having a part arranged to engage the switch member when the latter is in "on" position, whereby the door is held locked in closed position by said member.

1,349,574. BAFFLE FOR WATER-TUBE BOILERS. EDGAR KIDWELL, Milwaukee, Wis. Filed Aug. 5, 1919. Serial No. 315,401. 3 Claims. (Cl. 110—98.)



2. In a boiler of the series drum and tube type, the combination with the rearward bank of water-tubes, of a series of baffle sections arranged within the spaces between adjacent pairs of inner tubes of the bank, each of said sections comprising an elongated plate having longitudinally-extending inclined marginal flanges, and having a transverse recess, and an elongated opening intersecting the recess, the inclination of the flanges adapting the plate to be seated against two tubes and to extend therebetween, a clamping bolt having its head adapted to be passed through said opening and seated in said recess, a clip on said bolt bearing against two adjacent tubes, and a nut on said bolt coöperating with the clip.

1,349,575. METAL FENCEPOST. EDGAR SPENCER LACHMANN, Chicago, Ill. Filed Sept. 18, 1919. Serial No. 324,585. 1 Claim. (Cl. 189—29.)



An anchored metal fence post of which the main post member consists of a metal bar having a plurality of longitudinally extending flanges angularly disposed with respect to each other; anchoring elements consisting of bars secured to opposite surfaces of certain of said flanges and bent divergently upward and outward at a wide angle, and a cross-tie-bar connecting the upper and wide spread ends of said anchor elements secured to another flange or web of the post member, the dimensions of the parts being such as to produce relatively large triangular apertures between the post member and the tie-bar.

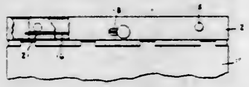
1,349,576. ADJUSTABLE JACK OR SHORE. CHARLES M. MARKHAM, Milwaukee, Wis. Filed May 1, 1918. Serial No. 231,882. 13 Claims. (Cl. 254—106.)



1. An adjustable support comprising a pedestal, a column mounted upon said pedestal and adapted to move

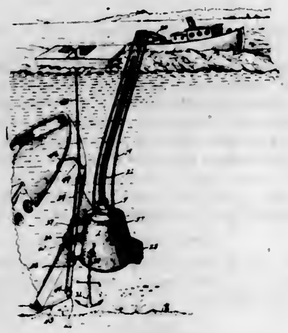
longitudinally thereof, a part adjustable longitudinally of said pedestal, a collar rotatably mounted upon said pedestal adjacent said part for controlling the position of said part, means for locking said collar against rotation upon said pedestal and a pair of dogs mounted upon said part adapted to engage said column to control the longitudinal position of the column upon the pedestal, in combination with means for adjusting the longitudinal position of said column upon the pedestal.

1,349,577. LOOSE-LEAF LEDGER. CHARLES T. NANKERVIS, Indianapolis, Ind. Filed May 20, 1919. Serial No. 298,485. 3 Claims. (Cl. 129—12.)



1. A binder for loose leaf ledgers including a pair of binding members, binding post secured to one member and projecting through the other member, a locking bar slidably mounted in said last mentioned member, locking balls actuated by said locking bar, and inclined bearings upon which said balls are actuated for forcing them into and out of locking position.

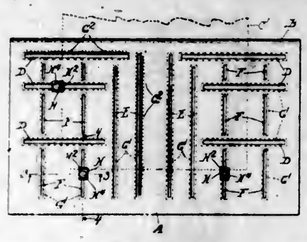
1,349,578. WRECK-SALVAGING APPARATUS. WILLIAM M. NEEPER, Capac, Mich. Filed Feb. 8, 1919. Serial No. 275,728. 11 Claims. (Cl. 61—69.)



1. In wreck salvaging apparatus, a suspended diving bell having the usual air and electric conduits leading to the interior, means for varying the position of the bell in a vertical plane in the water, means controllable from the interior for altering the position of the bell in horizontal plane, an electro-magnetic device, and a grapple comprising a beam member and an adjustable grapple device thereon, guides for positioning the beam on the bell, the magnetic device securing the beam to the bell, and a pontoon with which the beam is connected.

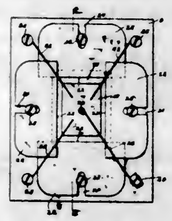
1,349,579. EMBOSSING-GAGE. GEORGE NEUMANN, Chicago, Ill. Filed Oct. 1, 1919. Serial No. 327,808. 6 Claims. (Cl. 101—413.)

3. An embossing gage adapted to be removably and adjustably attached to an embossing press adjacent the embossing stamp, comprising a flat plate and means for securing it to the press, the side adjacent the stamp being beveled, said plate pierced by a plurality of slots, and stops adapted to be adjusted along said slots, each comprising an upper stop member, a longitudinal lug on the bottom of said member adapted to penetrate the slot, a



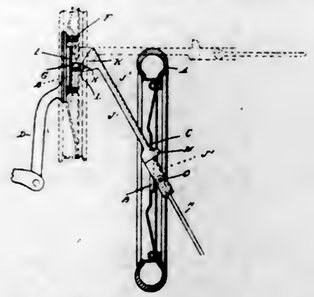
nut engaging the bottom of the plate and means engaging the bottom of the plate and means to lock the stop and nut together against the plate.

1,349,580. PICTURE-SCREEN-FRAME PROJECTOR. ROBERT F. PARADIS, Milwaukee, Wis. Filed Nov. 24, 1919. Serial No. 340,276. 4 Claims. (Cl. 88—24.)



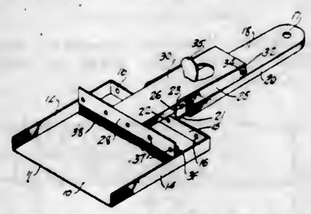
1. A device for projecting a frame about a picture screen field comprising a slide plate having an opening therein, a center plate positioned within said opening with its edges spaced from the adjacent sides of the opening, a securing member having one end secured to the center plate and its other end secured to the slide plate, and means spaced from the securing member and extending from the center plate to the slide plate whereby the frame will be substantially uniform.

1,349,581. DEMOUNTABLE-WHEEL-LIFTING DEVICE. AUGUST O. PELTIER, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Detroit, Mich., a Corporation of Delaware. Filed Oct. 3, 1919. Serial No. 328,282. 5 Claims. (Cl. 254—120.)



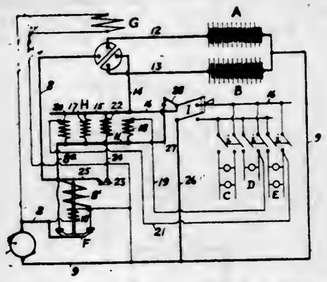
1. A demountable wheel lifting tool comprising a bar adapted to be inserted obliquely through the hub aperture in the wheel, means at the upper end of said bar for forming the fulcrum engagement with the tire holder, and a bearing on said bar for engaging the wheel, whereby said bar may be actuated as a lever of the second class to lift the wheel into alinement with the holder.

1,349,582. CRUMB PAN AND BRUSH. PER A. PETERSON, New York, N. Y. Filed Nov. 13, 1919. Serial No. 337,640. 5 Claims. (Cl. 65—62.)



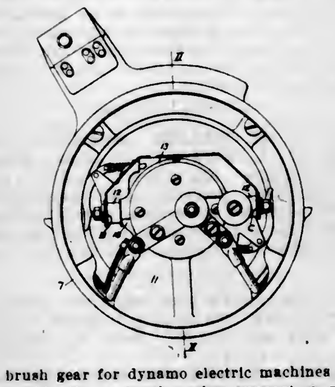
1. In a device of the class described, the combination with a pan and a handle integral therewith, of a reinforcement engaging said pan and handle, a pair of spaced vertical lugs formed with said pan at the rear, a trough shaped link pivoted between said lugs, an arm pivoted to the free end of said link, a frame formed with said arm, said frame extending the full width of said pan, a brush carried at the lower edge of said frame, means for attaching said brush, and means formed with said arm for manipulating the brush.

1,349,583. FRAME FOR LAMP RESISTANCES. HARRY D. ROHMAN, New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Filed Mar. 20, 1917. Serial No. 155,968. 12 Claims. (Cl. 219—63.)



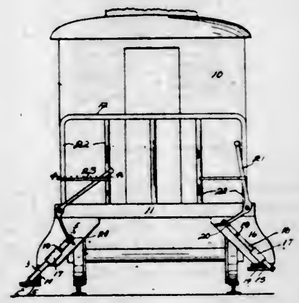
1. A resistance frame for car lighting systems comprising a pair of spaced bus-bars having means whereby a plurality of resistance tubes may be removably supported by and between the bus-bars.

1,349,584. REVERSING BRUSH-GEAR FOR DYNAMO-ELECTRIC MACHINES. HARRY D. ROHMAN, New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Filed Oct. 9, 1917. Serial No. 195,510. 3 Claims. (Cl. 171—318.)



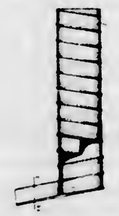
1. A brush gear for dynamo electric machines comprising in combination a brush rocker support, a reversible brush rocker mounted thereon, brushes on the rocker, a bearing interposed between said support and said brush rocker, a locking armature independent of the brushes non-rotatably but slidably associated with said brush rocker, and means coöperating therewith to lock the brush rocker including a winding adapted to attract said armature.

1,349,585. FOLDING EXTENSION-STEP. VONNIE O. SAUER and WILLIAM B. REEVE, Des Moines, Iowa. Filed Oct. 28, 1919. Serial No. 334,063. 1 Claim. (Cl. 105—448.)



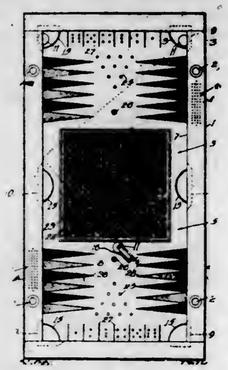
A folding extension step comprising a step member, hinged along one edge; a second step member hinged to said first step member; a controlling bar pivoted to said second step member; a guide for said bar; a stop on said bar for engagement with said guide for limiting the opening movement of said step; a loop on said bar; a lever having a curved arm extending through said loop; and means for holding said lever at the opposite limits of its movement.

1,349,586. METHOD AND MEANS FOR CONNECTING PIPE-COUPLINGS. SAMUEL SIEGEL, Brooklyn, N. Y., assignor to Atlantic Metal Hose Company, Inc., New York, N. Y., a Corporation of New York. Filed July 23, 1918. Serial No. 246,383. Renewed June 21, 1920. Serial No. 390,670. 4 Claims. (Cl. 285—72.)



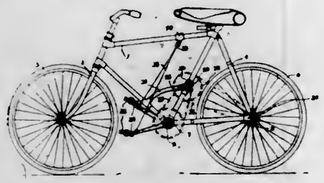
1. A method of connecting a member having a resilient outer winding and exterior resilient jacket firmly secured thereto to a member having an inner winding of a different pitch which consists in forcing the member having the inner winding over the said jacket with a revolving motion relative to said outer winding and jacket, to compress and elongate said outer winding, and cause it to firmly press the jacket against said inner winding when the revolving motion ceases.

1,349,587. GAME-TABLE. ANDREW SMITH and ROBERT R. SHENK, Chicago, Ill. Filed Sept. 18, 1917. Serial No. 191,959. 10 Claims. (Cl. 46—61.)



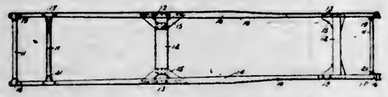
2. A game board for use with disk-like playing devices, a raised marginal rim or wall on the board, the wall having inwardly tapered slot-like pockets for receiving the disks and wedgingly engaging same.

1,349,588. PEDIMOTIVE PROPELLING-GEAR FOR BICYCLES, VELOCIPEDES, AND THE LIKE. WILFRED BANKS SMITH, Hobart, Tasmania, Australia. Filed Aug. 21, 1917. Serial No. 187,496. 1 Claim. (Cl. 208—21.)



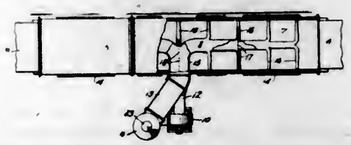
In a propelling gear for bicycles and the like, an axle rotatively mounted in a bearing in the frame, circular blocks detachably secured to the ends of the axle, a sprocket wheel connected to one of the blocks, spring actuated pawls pivotally mounted in an annular recess in the blocks, rings revolubly mounted on the circular blocks, said blocks and rings being arranged to constitute races for balls, ratchet teeth on the inner periphery of the rings, pedal levers fixed to the rings, a second bearing in a bracket on the frame of the bicycle, an axle in said bearing, a small and a large sprocket on opposite ends of the axle, a chain connecting the small sprocket to the sprocket on the axle carrying the pedal levers, and a chain connecting the large sprocket to a sprocket on the axle or hub of the driving wheel, as and for the purpose specified.

1,349,589. MOTOR-VEHICLE. ERNEST E. SWEET, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 20, 1916. Serial No. 132,328. 7 Claims. (Cl. 280—106.)



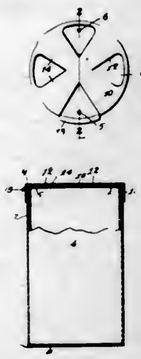
2. The combination with a pair of vehicle frame side members, each provided with an internally-splined boss, of a transverse non-distortion member provided with externally-splined portions at its opposite ends which are adapted to be fitted into said bosses.

1,349,590. DRIER. JOHN O. TENSFELDT, Ridgewood, N. J. Filed Nov. 18, 1919. Serial No. 338,833. 9 Claims. (Cl. 34—12.)



3. A drier comprising a chamber having mounted therein: a drying chamber, a distributer of heated air, and a chamber beneath said drying chamber adapted to receive moistened air from the same, said drier having means connected therewith for circulating the air through said chamber, extracting the moisture from the air, and heating the air, said distributer comprising a longitudinal channel and a plurality of side channels arranged at intervals and provided with perforations in the bottom thereof whereby the heated air is delivered at intervals and in a downward direction.

1,349,591. COVERING FOR CONDENSED-MILK CANS. KATHERINE M. TIEFENBRUN, St. Louis, Mo. Filed Apr. 7, 1919. Serial No. 288,120. 1 Claim. (Cl. 65—45.)



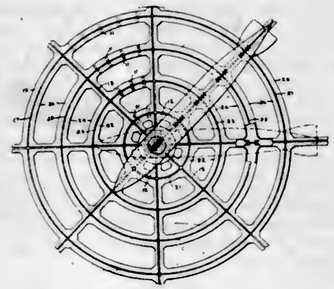
A covering for a condensed milk can comprising a cylindrical holder closed at one end and formed of flexible non-absorbent material, a lid having radial openings in its face and a depending peripheral flange formed of light material, a pouring lip formed integral with the lid by bending a portion of the top adjacent one of the openings outward and downward.

1,349,592. TOOTH-FILLING. WILLIAM G. TURNER, Brooklyn, N. Y. Filed Sept. 29, 1919. Serial No. 327,233. 9 Claims. (Cl. 106—6.)

1. A tooth filling, consisting of an absorbent fibrous filling, and a liquefied cementitious material with which the fibrous filling is saturated, said filling being adapted to solidify and harden when subjected to water.

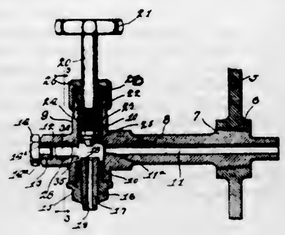
1,349,593. APPARATUS FOR MOORING DIRIGIBLES AND THE LIKE. EMANUEL S. ULLMANN, New York, N. Y. Filed Aug. 2, 1919. Serial No. 314,830. 14 Claims. (Cl. 244—1.)

1. In an apparatus for mooring dirigibles and the like, the combination with a series of movable mooring devices located below a dirigible and means adapted to connect such dirigible to said mooring devices; of means adapted to secure all of said mooring devices against upward



movement, comprising members arranged radially under which all of said mooring devices are adapted to pass radially, and members arranged circularly under which one of such mooring devices is adapted to pass circularly.

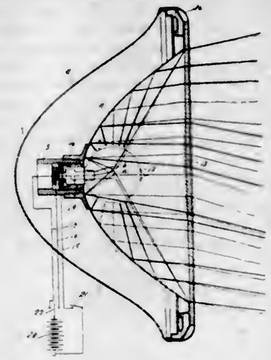
1,349,594. GAGE OR TRY-COCK. WILLIAM H. WAFER and JOHN MURRIN, Chicago, Ill. Filed Nov. 20, 1919. Serial No. 339,432. 4 Claims. (Cl. 277—66.)



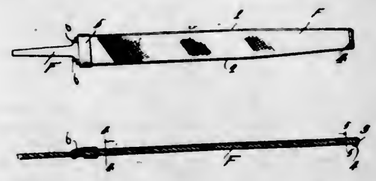
3. A gage or try-cock consisting of a casing having a channel adapted to communicate with a boiler and provided with a passage located transversely with respect to said channel and intersecting the same and also provided with a passage in alinement with said channel, a removable plug located in the last named passage and having a longitudinal bore and a transverse opening communicating with said bore, an orificed valve seat removably located in the transverse passage on one side of said channel, a stem adjustably mounted in the opposite portion of said transverse passage, a valve removably mounted on the inner end of said stem and adapted to close said valve seat, a rotary valve transversely located in the casing between the inner end of said plug and said transverse passage, said channel having at its inner end a valve seat, an elongated member adapted to be extended into the passage in which said plug is located after the same has been removed from its passage and through a passage in said rotary valve and having a sleeve movably mounted thereon to engage in the passage from which said plug shall have been removed, said elongated member having on its inner end a valve to close the valve seat on the inner end of said channel.

1,349,595. HEADLIGHT. OVERTON WINSTON, Minneapolis, Minn. Filed Mar. 2, 1917. Serial No. 151,931. 4 Claims. (Cl. 240—48.4.)

1. A lens for headlights having parallel prisms beveled in the same general direction, said prisms having, in respect to the basal surface of the lens, bevels, the angles of which, as among the successively adjacent prisms, decrease, step by step, in reverse order, in opposite directions from an intermediate prism located at the diameter of the lens.

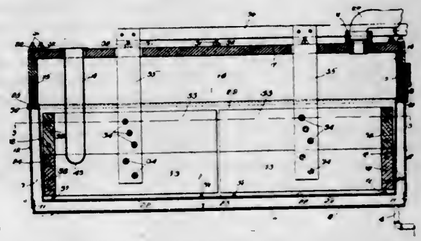


1,349,596. FILE-PROTECTOR. JOHN WOSIEWSKI, Nanticoke, Pa. Filed Apr. 22, 1919. Serial No. 292,000. 1 Claim. (Cl. 29—80.)



A file protector or guard comprising a single piece of sheet metal shaped to conform to the file in connection with which it is to be used, right angular flanges on the side edges of said guard, one end of the guard having a flange with an inturned lip, a band extending transversely around the other end of the guard, and hooks carried by said band and extending longitudinally of the guard to engage the shoulders of a file.

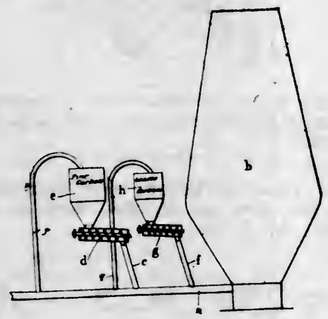
1,349,597. ELECTROLYTIC CELL. HERBERT I. ALLEN and KENT R. FOX, Portland, Me., assignors to Electron Chemical Company, Portland, Me., a Corporation of Maine. Filed Apr. 2, 1919. Serial No. 286,950. 15 Claims. (Cl. 204—59.)



15. An electrolytic cell comprising an upper closed free-board section, a metallic basket-like cathode attached to and suspended therefrom by a substantially liquid-tight joint and having perforated side, bottom and end walls furnishing active faces, a porous diaphragm cover-

ing the inner faces of the cathode, a tubular anode occupying the space within the cathode and spaced from the inner faces of the end, bottom and side walls thereof with its upper edges free to permit the electrolyte to flow thereover, a tank on which the free-board section rests with the cathode suspended therein and spaced from the walls thereof, and means for withdrawing the effluent from said tank to prevent the submergence of the cathode therein, said parts being so arranged that the level of the electrolyte in the free-board section may be above the top of the tank to increase the hydrostatic pressure.

1,349,598. PROCESS FOR TREATING ORES IN BLAST-FURNACES. LUCIEN PAUL BASSET, Paris, France. Filed Oct. 12, 1917. Serial No. 196,274. 3 Claims. (Cl. 75—14.)



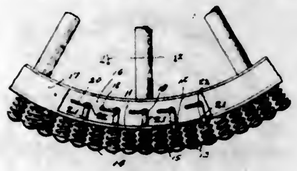
1. A process of treating minerals in a blast furnace, in which the carbon used as combustible is projected in the form of impalpable flour in the lower part of the furnace by superheated air, the carbon being used in such proportion that this carbon-dust by reason of its extreme tenuity is instantly and completely burned, producing therein only carbonic oxid.

2. A process which comprises injecting carbon in the form of a fine powder, and also carbon in a coarser form, into the lower part of an iron reducing blast furnace, together with a blast of air, said blast of air being in amount sufficient to convert at least the major part of the finely powdered carbon into carbon monoxid without burning any considerable amount of the relatively coarser carbon so introduced, whereby such coarser carbon is enabled to act in the furnace as a carburizing agent.

3. A process of treating iron ores for the production at will of either wrought iron, or steel, or cast iron, which comprises injecting the carbon used as fuel in the form of a very finely divided powder, and also injecting carbon used for carburization in the form of a coarser pulverulent mass, both of said forms of carbon being introduced with an air blast of such volume as to burn substantially all of the finely powdered carbon to carbon monoxid, but insufficient to also burn any considerable amount of the coarser carbon, and regulating the amount of such finer carbon in such amount as to produce substantially complete reduction in the furnace, and regulating the amount of such coarser carbon according to whether wrought iron, steel or cast iron is to be produced, whereby the coarser carbon unites with the free iron produced with the production of carburized iron of the desired carbon content.

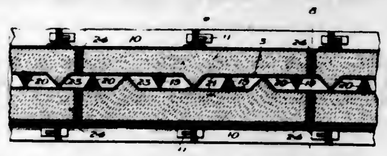
1,349,599. RESILIENT WHEEL. JOHN A. BRAESE, Mound, N. D. Filed July 28, 1919. Serial No. 313,684. 1 Claim. (Cl. 152—8.)

A resilient wheel including a felly, a rim secured to the felly and extending on opposite sides thereof, said extending portions of the rim being formed with openings, headed pins, disposed slidably through the openings, springs mounted on the pins between the rim and the heads thereof, parallel flanges on the inner face of the rim and receiving the inner ends of the pins therebetween,



the inner of the flanges having openings disposed at points between the pins, and substantially Z-shaped members having one of their ends disposed through the inner ends of the pins and the other ends within the openings of the inner flanges.

1,349,600. CONCRETE CONSTRUCTION. LEWIS BRANDT, Pittsburgh, Pa. Filed July 15, 1915. Serial No. 40,033. 1 Claim. (Cl. 72—48.)

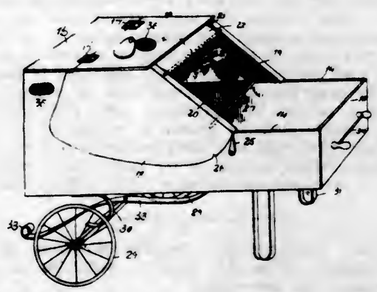


A wall structure comprising opposed layers of cementitious material, an interposed reinforcing and ventilating frame formed of two opposed sheets having integral spaced apart V-shaped bracing ribs opening exteriorly of the wall to receive the cementitious material, said ribs making contact with the opposed sheet and solid V-shaped bracing ribs adapted to be inserted when desired alternately of said sheets intermediate said first mentioned ribs whereby the same frame may be utilized under varying strains and readily strengthened when necessary.

1,349,601. WATERPROOFING COMPOSITION FOR FIBROUS MATERIALS. HARRY L. BUCKNER, Worcester, Mass., and EDMUND BURKE, Portland, Me. Filed Dec. 18, 1919. Serial No. 345,835. 3 Claims. (Cl. 134—13.)

1. A composition for treating fibrous and other materials comprising hard asphalt blended with petroleum grease.

1,349,602. SLUMBER-WAGON. GEORGE A. CONGDON, Somerville, Mass. Filed Dec. 26, 1919. Serial No. 347,513. 5 Claims. (Cl. 5—14.)



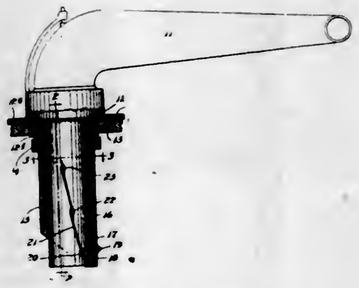
1. In combination, a slumber-wagon body comprising a box-like crib having a relatively low foot end member, a higher head end member, side members of varying height, conforming to the foot and head end members, and a top member attached to the head end member and to the higher portions of the side members, said side, head, and top members forming a fixed hood, open at one side and located at the head end portion of the crib, and a displaceable hood-extension comprising a top member hinged to the top member of the fixed hood, side members attached to the top member and arranged to overlap portions of the side members, the top and side members of said extension being rigidly connected and defining a front opening in the extension, permitting access to the open side of the fixed hood, and a movable closure for opening and closing said front opening, the said hood and extension constituting a chamber over the head end portion of the crib, adapted to be opened by the displacement of the extension.

1,349,603. HEATING-STOVE. DEWITT C. CONKLIN, Mount Arlington, N. J. Filed Aug. 28, 1917. Serial No. 188,639. 1 Claim. (Cl. 126—96.)



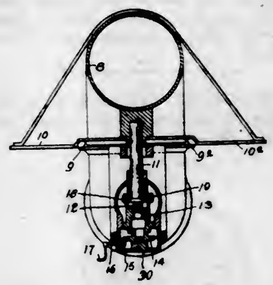
A heating stove comprising a reservoir and burner, an open work frame structure surrounding the reservoir, a horizontal bowl shaped reflector, a depending sleeve formed centrally of the bowl to surround the burner, an annular rim formed upon the periphery of the reflector, a casing comprising spaced rings one of which rest within the rim of the reflector, strips connecting said rings, the upper terminals of the strips being extended beyond the upper ring and bent toward each other, a ring connecting said terminals of the strips transparent panes held between the strips, a substantially conical flue held within the ring, a flange on the lower end of the flue disposed above the burner the lower edge of the flange and the top edge of the rim lying in the same horizontal plane, and a perforated drum mounted upon the upper end of the flue.

1,349,604. TONE-MODIFIER FOR TALKING-MACHINES. FRED W. COOLEY, Minneapolis, Minn. Filed June 12, 1919. Serial No. 303,711. 6 Claims. (Cl. 274—27.)



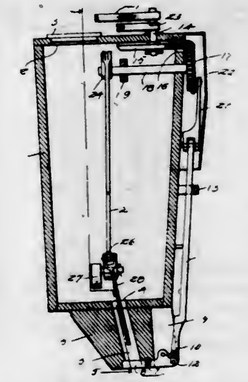
1. The combination with a tone arm for talking machines, of a resonant tube spaced therefrom and located where the sound waves will pass therethrough on their way from the tone arm into the sounding chamber, and a tension device putting said resonant tube normally under stress.

1,349,605. VALVE. HARRY N. CUPP, Mars, Pa., assignor of one-half to Thomas G. Monahan, Pittsburgh, Pa. Filed June 2, 1919. Serial No. 301,285. 5 Claims. (Cl. 251—84.)



1. A valve structure for conduits subject to wide variations in temperature, which includes a valve casing arranged between adjacent sections of the conduit, two valve seats arranged in planes parallel with and laterally remote from the general axis of the conduit sections, and a valve member movable to and from said valve seats, substantially as described.

1,349,606. SANDING DEVICE. MIKE DANDY, Burdine, Ky., Filed May 15, 1920. Serial No. 381,703. 2 Claims. (Cl. 291—28.)



1. A sanding device comprising a hopper, a discharge nozzle for said hopper, a pivotally mounted valve for said discharge nozzle, an operating shaft journaled in the hopper, a second shaft journaled in the hopper and extending exteriorly thereof, gears connecting said shafts, a handle for the operating shaft, means connecting one of the gears to the valve, a casing secured to the hopper and overlying a portion of said means and the gears, and tension means connected to said means and to the hopper.

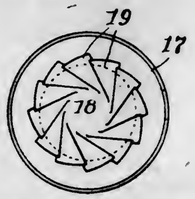
1,349,607. RAILROAD-RAIL COUPLING. LUTHER C. DEAVER, Culberson, N. C. Filed Dec. 12, 1919. Serial No. 344,446. 1 Claim. (Cl. 238—253.)



A railroad coupler including a joint having bolts provided with openings, a locking plate, means detachably

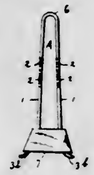
securing the locking plate to the joint, said locking plate having a series of notches in its lower edge to form horizontally disposed locking elements adapted to extend through the openings of some of the bolts, and a locking element formed on the end of the locking plate and in alinement with the first named locking elements and adapted to extend through the openings in the end bolt of the series of bolts.

1,349,608. AIR-WASHER. WILLIAM H. L. DONALDSON, St. Paul, Minn. Filed Nov. 3, 1919. Serial No. 335,324. 2 Claims. (Cl. 183—24.)



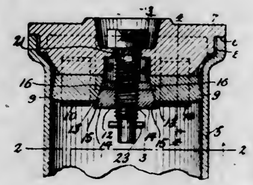
1. An air washer for internal combustion engines comprising a casing adapted to hold liquid in its base, an annular sleeve surrounding the lower part of the casing and adapted to receive liquid, a series of ports in the casing within said sleeve, a series of curved tangential guides formed in the casing and adapted to direct the liquid in the casing centrifugally and an air conduit opening from the top of the casing to the intake of a carbureter.

1,349,609. HAIR-WAVER. CHARLES O. ELLERT, Brooklyn, N. Y. Filed July 26, 1919. Serial No. 313,557. 4 Claims. (Cl. 132—19.)



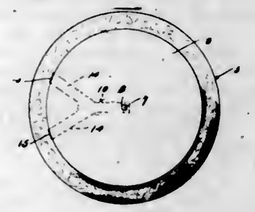
1. A hair waver comprising a hair pin having spaced parallel limbs provided with flared portions, integral holding means provided in said flared portions, and a separable locking means provided with co-acting means to engage with said holding means.

1,349,610. COVER FOR SERVICE-BOXES. JAMES W. GIBNEY, Buffalo, N. Y., assignor to W. P. Taylor Company, Buffalo, N. Y., a Corporation of New York. Filed Feb. 27, 1919. Serial No. 279,558. 4 Claims. (Cl. 220—55.)



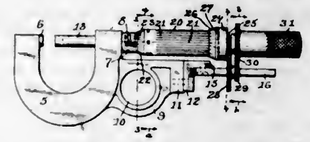
1. A service box cover comprising a plate adapted to engage the end of a service box, guides mounted on the underside of said plate on opposite sides of its center and each being previously constructed of U-form independently of the plate and having its legs embedded in said plate by casting the latter on said legs, jaws sliding in said guides and adapted to engage their outer ends with the side of a service box, and means for spreading said jaws engaging with their inner ends of the same.

1,349,611. RECORD-PLACER. LLOYD N. HOST, Grand Rapids, Mich. Filed May 7, 1919. Serial No. 295,255. 5 Claims. (Cl. 274—1.)



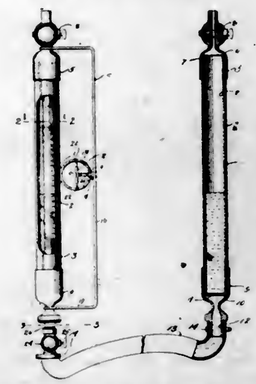
1. A disk record placer for phonographs including, an arm adapted to be mounted radially on the turn-table of a talking machine, outwardly diverging arms secured to said first named arm and extending to the periphery of a record, and upwardly extending shoulders carried by said outwardly diverging arms adapted to be engaged by the periphery of a record to dispose the record in a position where the opening therein will be in alinement with the pin of the turn table.

1,349,612. MICROMETER-CALIPER. FERNANDO OSCAR JAQUES, Sr., Providence, R. I., assignor to Fernando Oscar Jaques, Jr., Providence, R. I. Filed Jan. 20, 1920. Serial No. 352,718. 6 Claims. (Cl. 33—166.)



1. A micrometer caliper having a handle, a barrel on the handle, provided with graduations for indicating units of measurement, a spindle screw-threaded through the barrel, a thimble fixed to the spindle, and means on the thimble for indicating division of units of measurement, a second thimble sleeved on to the first thimble, and means on the second thimble for indicating sub-divisions of units of measurement, means for rotatably supporting the second thimble and means for rotating the second thimble co-incidently with and at a greater speed than the first thimble.

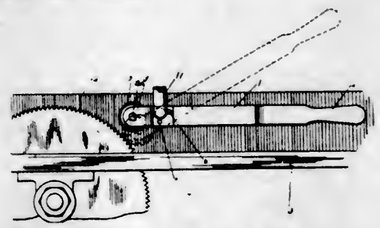
1,349,613. WATER-LEVEL. JOHN KASPAR and RUD F. BERAN, Moulton, Tex. Filed Nov. 6, 1916. Serial No. 129,851. 1 Claim. (Cl. 33—209.)



The combination with a pair of gages adapted to contain liquid, and a flexible tube connecting the gages of a

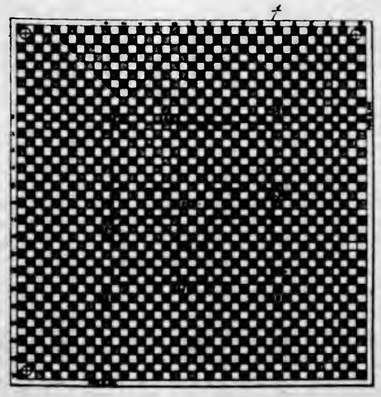
frame having its ends engaged with one of the gages, an annular member carried by the frame and disposed between the same and the gage and having gradustions thereon forming a scale, an arm extending from the annular member toward its center, a pointer pivoted to the arm and having its extremities movable over the scale and a spirit level within the pointer and exposed centrally thereof.

1,349,614. TOOL FOR SETTING THE TEETH OF CIRCULAR SAWS. SAMUEL P. KAY, Rochester, N. Y., assignor of one-third to Rufus P. Wolf, one-third to Annie K. Rownd, and one-third to Arethusa Kay, Rochester, N. Y. Filed Sept. 8, 1919. Serial No. 322,447. 2 Claims. (Cl. 76—59.)



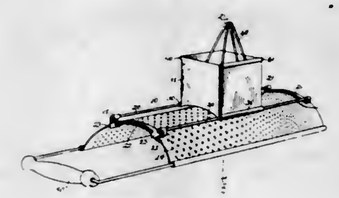
1. In a tool for setting circular saws, the combination of an arm, a roller having a beveled edge on each side of the periphery thereof mounted to rotate loosely on one end of said arm, a pivot pin passing through said arm and projecting out on each side thereof, said pivot pin being loosely mounted in said arm, means to hold said pin in place in said arm, and means to clamp said pin against a stationary member to allow said arm to rock around said pivot pin as the center.

1,349,615. GAME. BERNARD A. KOELLHOFFER, Newark, N. J. Filed June 20, 1919. Serial No. 305,458. 2 Claims. (Cl. 46—64.)



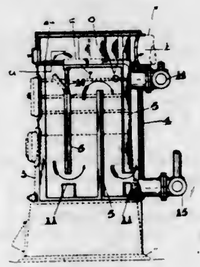
1. A game apparatus comprising a board divided into small squares, and indicated by different colors, a boundary line of a distinguishing color forming a square outline indicating the walls of a dwelling at the center of the board, similar lines within the boundary inclosing squares with the corners of said dwelling boundary so as to allow corridors within the dwelling, said lines being broken away so as to allow entrance from the rooms to the corridors and to the exterior of said boundary, and characters marked on the corners of the board and indicating gates for entrances to the grounds surrounding the dwelling, and game pieces indicating a burglar and officers adapted to be moved in the squares of the board.

1,349,616. GRATER ATTACHMENT. JOSEPHINE C. KOTTMAN, Brooklyn, N. Y. Filed Oct. 21, 1919. Serial No. 332,149. 2 Claims. (Cl. 146—15.)



1. A grater attachment, comprising a frame having parallel guide rods and end members overlying the ends of the grating body of a grater, the end members having means supporting the said guide rods and the end members having means adapted to engage the under surface of the ends of the grater body, a reversible hopper having top and bottom bearings either of which is adapted to slidably engage the said guide rods, and a reversible follower slidably fitting into the said hopper and having a handle made in reversible parts projecting out of the hopper.

1,349,617. HEATING APPARATUS. ARTHUR JOSEPH LA FAY, Toronto, Ontario, Canada. Filed Oct. 25, 1919. Serial No. 333,152. 3 Claims. (Cl. 122—494.)



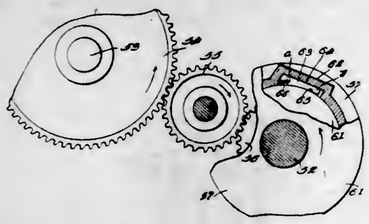
1. The combination with a fluid heating furnace of the vertical type provided with internal flues for the products of combustion and spaces for the fluid to be heated externally bounded by the casing of the furnace and surrounding the internal flues, fuel and ashpit doors at one side and a single smoke exit in the top, of an external casing spaced from the sides of the casing but leaving the front of the casing with the fuel and ashpit doors exposed; a smoke outlet at the top of the external casing; depending baffles, one at each side of the furnace, dividing the space between the casing into a plurality of vertical flues; vertical walls, extending between the top of the furnace casing and the top of the external casing, and from the sides of the smoke exit of the furnace to the wall of the said casing, said walls forming a flue, the smoke exit of the furnace, the smoke outlet of the external casing and the space between the two casings all communicating with said flue; a damper in said flue adapted to cut off direct communication between the said smoke exit and the said smoke outlet; and horizontal baffles adapted to direct products of combustion from the smoke exit to the space between the two casings at the side of the vertical baffles remote from the smoke outlet of the external casing.

1,349,618. PULLEY. HUGO C. LA GANKE, Cleveland, Ohio, assignor to The Osborn Crew Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 10, 1919. Serial No. 322,786. 2 Claims. (Cl. 254—192.)



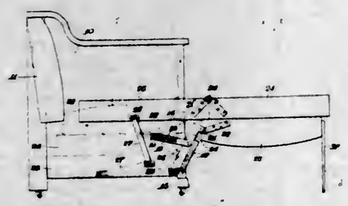
1. An integral sheet metal pulley housing comprising opposite sides connected by a web at the lower end and shaped at the upper end to form opposite eye members one of which forms a connecting eyelet between said members.

1,349,619. SYNCHRONIZING AND REGULATING MECHANISM FOR COMBINATION STEAM AND EXPLOSION ENGINES. CHARLES T. LITCHFIELD, Spokane, Wash., assignor to William B. Gerard and George C. Jackman, Spokane, Wash. Filed Feb. 5, 1918. Serial No. 215,503. 7 Claims. (Cl. 60—14.)



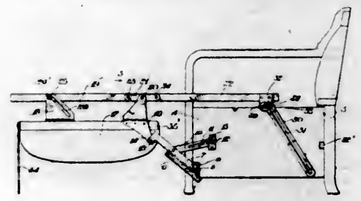
1. The combination with a steam and an explosion engine, of a vehicle shaft in positive driven relation with said explosion engine, characterized by mechanism for coupling the steam engine with said shaft when the steam engine is running at the same or at a greater speed than the explosion engine and releasing said steam engine when the latter slows down with respect to the explosion engine, and a governor means operated by said shaft for synchronizing the speeds of said steam and explosion engines.

1,349,620. BED-DAVENPORT. CHARLES W. MEVES and FREDERICK G. HERRMANN, Sheboygan, Wis. Filed Dec. 4, 1918. Serial No. 265,306. 2 Claims. (Cl. 5—51.)



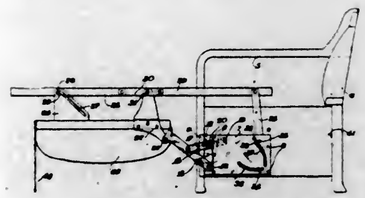
1. In a bed davenport, the combination of a fixed back, a seat member, forwardly swinging arms on which the seat member is pivotally mounted, means for limiting the movement of said arms, a bed section on the bottom of the seat member, a second bed section hingedly connected with the first bed section, and swinging arms on which the second bed section is swingingly mounted, the connection between the first named arms and the seat member being below the end of the second bed section and the set of arms being inclined in opposite directions when the sections are extended, whereby both sets of arms serve to support the second bed section.

1,349,621. BED-DAVENPORT. CHARLES W. MEVES and FREDERICK G. HERRMANN, Sheboygan, Wis., assignors to Sheboygan Couch Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed June 16, 1919. Serial No. 304,674. 4 Claims. (Cl. 5—51.)



1. In a bed davenport, the combination of a frame, a pair of swinging arms mounted on said frame, a front rail mounted on said arms, means for limiting the swinging movement of said arms, a seat member swingingly mounted on the outer ends of said arms, hinge links pivotally connected to the seat member at its forward end, guide and supporting brackets fixedly secured to the seat member at its rear end, a bed section connected to said hinge links and supported by and slidable with respect to said brackets, a second bed section connected to said hinge links at one end, and slotted guide and supporting members secured to said frame and connected with the other end of said second bed section.

1,349,622. BED-DAVENPORT. CHARLES W. MEVES and FREDERICK G. HERRMANN, Sheboygan, Wis., assignors to Sheboygan Couch Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed Feb. 20, 1920. Serial No. 360,231. 2 Claims. (Cl. 5—51.)

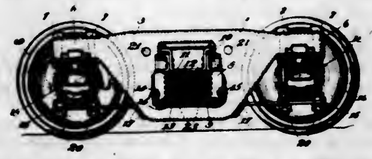


1. In a bed davenport, the combination, with a frame having end walls and a front rail, of a plate secured to each end wall and the end of the front rail adjacent thereto and offset to form with said end wall and front rail a pocket, forwardly swinging arms pivotally supported on the end walls and movable in said pockets, a seat member pivotally mounted on the outer ends of said arms, bed sections operatively connected with said seat section, and mechanism for raising the bed sections to extended position upon inversion of the seat.

1,349,623. PLOW. ASBURY MOORE, Seneca, S. C. Filed July 11, 1919. Serial No. 310,013. 1 Claim. (Cl. 97—10.)

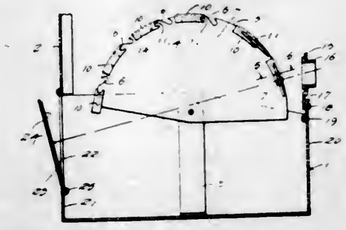
In a plow, a beam, a cultivator shank mounted adjacent one side of said beam and detachably secured thereto adjacent its rearward end, said shank being provided with a depending standard and a cultivator shovel carried thereby, a block positioned at one side of the beam adjacent said shank and having the end portion of its inner face recessed to receive the forward end portion of the cultivator shank, a cultivator shank mounted on the outer face of said block and provided with a depending standard carrying a cultivator shovel, and securing bolts inserted through the shank carried by the block and through said block and the beam, one of said bolts passing through the forward end of the first mentioned cultivator shank.

1,349,624. SIDE FRAME. FREDELLIA H. MOYER, Westmont borough, Pa. Filed Nov. 15, 1919. Serial No. 338,401. 8 Claims. (Cl. 105—205.)



1. A truck-frame formed of two plates of metal with integral flanges projecting from the edges thereof, the edges of said flanges being abutted and welded together.

1,349,625. EYE-TESTER. HENRY E. MYERS, Bowman, N. D. Filed Feb. 14, 1920. Serial No. 358,627. 5 Claims. (Cl. 88—20.)



1. An eye tester comprising a support, plates pivoted to said support and having notches to receive eyeglasses, means locking the eyeglasses into certain notches, and a reading chart carried by the support and associated with the eyeglasses.

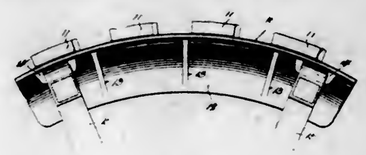
2. An eye tester comprising a support, plates adjustable on said support and having notches to receive eyeglasses, means locking the eyeglasses in said notches, and a reading chart carried by the support.

3. An eye tester including a support, plates carried by said support and having notches therein to receive eyeglass frames, and locking elements slidable on said plates for closing the notches.

4. An eye tester including a support, plates carried by said support and having notches to receive eyeglass frames, sleeves slidable on said plates for closing the notches and having notches therein to coöperate with the first named notches in receiving the eyeglass frames, and means holding the sleeves against accidental movement.

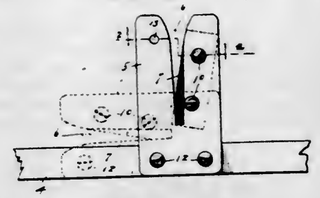
5. An eye tester including a support, plates carried by said support and having notches to receive eyeglass frames, sleeves having notches slidable on said plates for closing the first named notches, and tension tongues on said plates for engagement with the sleeves.

1,349,626. TIRE-TREAD ATTACHMENT. WALTER R. PETERSEN, Milwaukee, Wis. Filed June 14, 1919. Serial No. 304,143. 1 Claim. (Cl. 152—116.)



A tire tread attachment comprising an elongated tread section which is transversely flat and longitudinally curved to correspond to the circumferential curvature of a minor segment of a tire, said tread section having a substantially greater width than the width of the tire, a trough-shaped tire seating section substantially curved both longitudinally and transversely to conform to the curvatures of the tire surface and connected longitudinally along its medial portion with the medial portion of the tread section, said tire seating section having its trough substantially equal in depth to one-half the cross sectional diameter of the tire whereby to fit against the sides of the tire, said tire seating section having its trough of sufficient length to procure interlocking relation with the tire portion disposed therein to prevent slipping movement of the device transversely about the tire upon application of stresses tending to procure such slipping movement, a gripping and retaining strap secured at its opposite ends to the tread section and adapted to embrace the felly and tire of a wheel, said strap being in engagement with the longitudinal edge portion of the tire seating section and close to the adjacent portion of the tire when drawn tightly thereabout and about the felly, whereby when the attachment tends to turn transversely of the tire, the edge portion of the tire seating section in the direction of its movement will be wedged between the strap and the adjacent surface of the tire wall to limit or retard movement of the attachment, said strap being moved more closely toward the tire wall under such conditions.

1,349,627. CORD-CUTTER. VICTOR E. PETERSON, Minneapolis, Minn. Filed July 10, 1918. Serial No. 244,215. 1 Claim. (Cl. 30—14.)

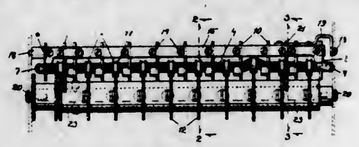


A cord cutter comprising a pair of bifurcated clamping members arranged the one upon the other to bring their bifurcations into coincident relation to afford a single notch, a rectangular blade having on one of its longitudinal edges a straight cutting edge and also having a pair of bores, and fastening devices arranged to enter the bores in said blade to connect the same to the clamping members, said fastening devices arranged to hold the blade with its cutting edge extending obliquely across said notch and with both of the end portions of its cutting edge covered by said members.

1,349,628. OVER-ROTATION CHECK FOR CALCULATING-MACHINE GEARS. EDGAR E. PHINNEY, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of New York. Filed July 23, 1919. Serial No. 312,788. 7 Claims. (Cl. 235—131.)

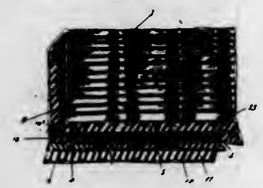
1. A yieldable check device adapted to prevent overrotation of gear wheels of calculating machines, consist-

ing of a coiled spring extending parallel to the shaft or said gear wheels, and at intervals bearing against the teeth of said wheels, and means located midway between



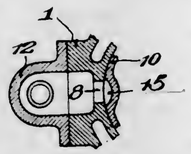
said wheels and externally of said spring to hold certain of the coils of the spring against displacement and to localize the spring action of certain other coils of the spring with respect to said gear wheels.

1,349,629. UPHOLSTERING. ARTHUR TINDALL REYNOLDS, New York, N. Y. Filed Jan. 6, 1919. Serial No. 269,830. 1 Claim. (Cl. 5—13.)



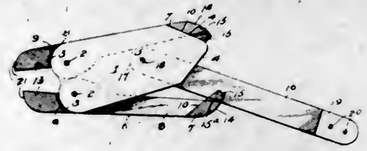
In upholstering, a padding receptacle of substantially mattress shape and having one of its side edges cut away forming an opening for the insertion of padding, said receptacle being divided into a plurality of compartments common to said opening, a flap projecting from one of the sides of said receptacles and adapted to fold over said opening, a flap secured to the opposite side of said receptacle and adapted to fold over the aforesaid flap and to be secured thereto, end flaps adapted to be secured to the last mentioned flap and an inclosing flap secured to one of the sides of said receptacle and folding over all of the aforesaid flaps and adapted to be secured to the second mentioned flap.

1,349,630. STARTING-PORT FOR VALVELESS TWO-CYCLE INTERNAL-COMBUSTION ENGINES. CHARLES H. SHEASLEY, Franklin, Pa., assignor to Franklin Valveless Engine Company, Franklin, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1919. Serial No. 343,969. 2 Claims. (Cl. 123—74.)



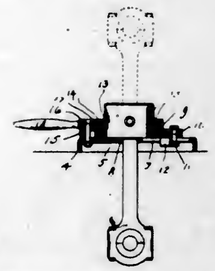
1. In a valveless two-cycle internal combustion engine, a cylinder providing pump and combustion chambers, said engine having an air inlet, a fuel admission port and a transfer port, a piston reciprocating in said cylinder and coacting with said admission and transfer ports to time the admission of fuel to the pump chamber and its transfer to the combustion chamber, a starting port in the wall of said piston communicating with said pump chamber and co-acting with said admission port at an intermediate point in the stroke of the piston whereby said piston may be manipulated to admit a starting charge to the pump chamber without moving the piston to its normal fuel-admitting position, and an air-valve for admitting air to said starting port when starting the engine.

1,349,631. WRENCH. WALDEMAR H. SPANIER, Devils Lake, N. D. Filed Jan. 28, 1920. Serial No. 354,685. 2 Claims. (Cl. 81—91.)



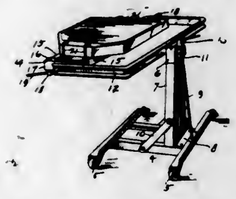
1. A wrench comprising a single base plate, a pair of substantially identical jaws pivotally mounted on the opposite side edges of the base plate in opposed relation to each other and arranged longitudinally thereof, the pivots of said jaws being located at the forward end of said plate, and said jaws having their active ends projecting beyond said plate, the rear ends of said jaws normally surrounding the rear end of the plate and having inwardly directed lugs in spaced relation, an actuating hand lever longitudinally slotted so as to lie flat against the opposite sides of the base plate, said slot forming a guideway for said lugs, said lever being fulcrumed at its forward end along the median line of the base plate between the jaws and adapted to contact with the rear ends of the jaws to force the active end of one of the jaws toward the other, one of the said lugs riding in the slot of the hand lever when that jaw is actuated by the same.

1,349,632. AUTO-PISTON-CLAMPING VISE. JOSEPH H. STALEY, Columbus, Ind. Filed Nov. 24, 1919. Serial No. 340,376. 2 Claims. (Cl. 81—19.)



1. In a piston-vise, a base having a diametrical slot, a clamping-head mounted on the base and having a lug entering said slot, means for holding the clamping-head in a given position, a second clamping-head on the base diametrically opposite the first clamping-head, having a curved flange and also having a slot in alinement with the slot of the base, a cam on the last clamping-head acting against said curved flange, and a bolt pivoting the cam and passing through the slot in the second clamping-head and securing the cam and second clamping-head to the base.

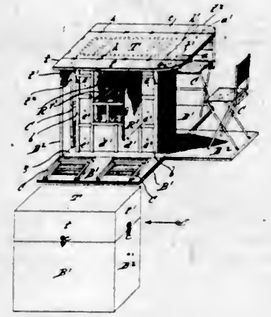
1,349,633. RADIATOR-STAND. JOSEPH H. STALEY, Columbus, Ind. Filed Nov. 24, 1919. Serial No. 340,378. 4 Claims. (Cl. 29—89.)



1. In a stand for repairing automobile radiators, a standard, a three-sided frame pivoted at one side to the

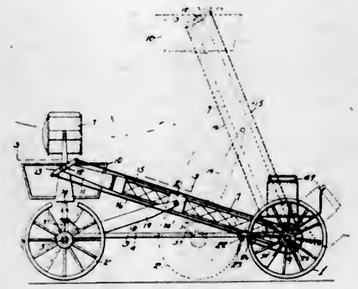
standard, a second frame to which the radiator is fastened said second frame being pivoted to the first frame for complete rotation, and means for holding a given adjustment of both frames.

1,349,634. FOOD-SERVICE CABINET. MORRIS J. STERN, Brooklyn, N. Y. Filed Mar. 3, 1920. Serial No. 363,025. 2 Claims. (Cl. 45—31.)



1. A compartment, a top board therefor, side and end leaves hinged thereto, members hinged to the base of said compartment, and chairs hinged to said members and foldable with the latter parallel with the sides and ends of the compartment, the free edges of said leaves and members abutting each other when in closed position.

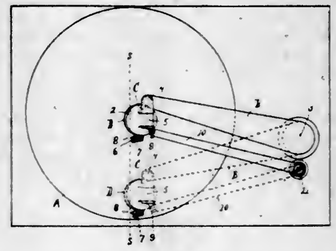
1,349,635. RECONNOITERING APPARATUS. JOSEPH B. STRAUSS, Chicago, Ill. Filed Aug. 14, 1916. Serial No. 114,932. 8 Claims. (Cl. 189—15.)



1. A portable reconnoitering device comprising two pairs of wheels, a movable arm movably connected with one pair of wheels, a controlling connection between said arm and the other pair of wheels, and means for moving said pairs of wheels toward and from each other while the said arm and controlling connection are connected therewith so as to raise and lower said arm.

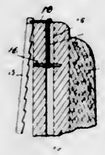
1,349,636. TONE-ARM APPARATUS FOR TALKING-MACHINES. ALFRED J. SWING, Cincinnati, Ohio. Filed Nov. 15, 1915. Serial No. 61,668. 2 Claims. (Cl. 274—23.)

1. In a sound recording and reproducing machine having a horizontally disposed disk record, a tone arm rotatably movable upon a fixed substantially vertical axis, a sound box having a stylus to engage the record and pivotally connected to the free end of said tone arm upon a substantially vertical axis, and a link member substantially parallel to said tone arm pivotally connected near the fixed end of the tone arm upon a fixed axis and pivotally connected at its opposite end to said sound box, to



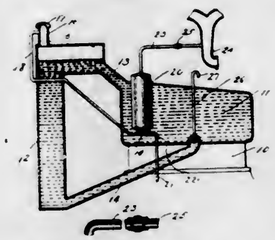
cause the sound box to move pivotally relative to the tone arm in proportion to the movement of the tone arm upon its fixed axis.

1,349,637. ADJUSTABLE HEADREST FOR BARBERS' CHAIRS. WILLIAM T. SWITZER, Birmingham, Ala. Filed Jan. 15, 1920. Serial No. 351,543. 2 Claims. (Cl. 155—177.)



1. In a barber's chair, a head rest, a guiding member, bars connected to the head rest and movable in the guiding member, said bars being spaced apart, said guiding member having a slot therein for the passage of the bars, links pivotally connected to the ends of the bars and in length equaling approximately the thickness of that portion of the guide between the slot and the rear side thereof, a stud anchored transversely of the guide-way, and a yoke connected to the links, the length of the yoke being approximately equal to the distance between the stud and the top of the guide-way.

1,349,638. VACUUM WATER-CIRCULATOR. ARLES C. TAYLOR, Clay Center, Kans. Filed Jan. 17, 1920. Serial No. 352,034. 3 Claims. (Cl. 123—175.)



3. In a water circulation system for an explosive engine the combination with the water jacket and radiator and the connections therebetween and the intake manifold of the engine, of a tank located between the radiator and the manifold, a conduit connecting the radiator above its water line to the bottom of the tank, a valved extension in the conduit at the point of connection with the tank, the valve of said connection being arranged to open normally to discharge water from the tank and to close under

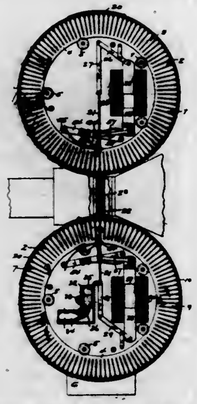
the influence of suction in the tank, a conduit connecting the upper end of the tank and the manifold for creating suction in the tank under the influence of the gases passing through the manifold, and a pipe connecting the water jacket with the atmosphere in which is disposed a valve normally closed by the water in the jacket and arranged to open to permit air to enter upon suction being produced in the system.

1,349,639. CRUTCH. DONALD ROBERT NAPIER TAYLOR, Drummoyne, near Sydney, and DAVID MARKS, Sydney, New South Wales, Australia. Filed June 2, 1920. Serial No. 386,091. 4 Claims. (Cl. 135—50.)



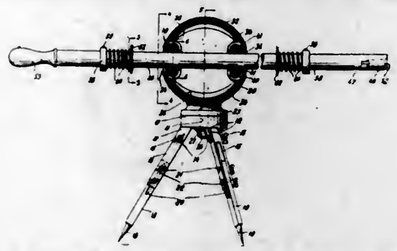
4. A crutch comprising a pair of staff members having fitted thereto an armpit cross-piece and a hand grip, said staff members being connected together by ferrules and grooved at their lower portions to form a recess, a rod freely slidable within said recess and provided at its foot with a pad, a coiled spring mounted on the upper end of said rod, a collar on said rod acting as an abutment for one end of said spring, a pair of brackets secured to said staff members supporting between them a guide piece for said rod and arranged in such manner that one of said brackets will act as an abutment for the other end of said spring, and a wedge block secured between said staff members, and acting as an abutment for the lower face of said collar and as a bearing for said rod.

1,349,640. PROJECTING APPARATUS. GEORGE L. TRUEBLOOD, Berkeley, Calif. Filed July 18, 1917. Serial No. 181,255. 41 Claims. (Cl. 88—27.)



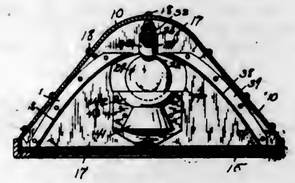
41. In an apparatus of the character described, two movable magazines separated by an intervening display space, means for presenting slides from said magazines alternately in said display space, and means for moving the magazines.

1,349,641. MINING IMPLEMENT. IVAN B. WATHEN, Strattonville, Pa., assignor to Inez M. Wathen, Showers, Pa. Filed Oct. 31, 1918. Serial No. 260,511. 4 Claims. (Cl. 255—42.)



1. A mining implement comprising a support, a head rotatable on a vertical axis therein, a spider movable on a horizontal axis in said head, a bar revoluble and slidable in said spider.

1,349,642. HEAD-LAMP. CHESTER N. WEEMS, Irvington, N. J. Filed June 19, 1919. Serial No. 305,292. 4 Claims. (Cl. 240—41.)



1. A headlamp comprising a horizontal support with an opening therein, a reflector above the support, a reflector below the support, both reflectors being secured to and supported by the support, and a source of light secured on the support and extending into the opening.

1,349,643. RETAINING DEVICE FOR LAUNDRIED COLLARS. ISAAC F. WILLEY, Philadelphia, Pa. Filed Apr. 12, 1918. Serial No. 228,074. 1 Claim. (Cl. 206—46.)

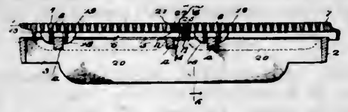


The combination with a single coiled or rolled up collar of the turn-over type, having its free ends near each other, of an annular relatively narrow band surrounding the exterior coiled portion of said collar at approximately midway of its height to prevent its uncoiling and to cause the fold of the collar to be set in spaced relationship to the neckband of the collar and thereby provide for the ready slipping of a necktie during the tying between said neckband and fold.

1,349,644. GRATE. JAMES S. WILSON, Scranton, Pa. Filed Apr. 24, 1917. Serial No. 164,140. 6 Claims. (Cl. 126—168.)

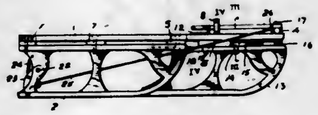
1. In a grate, sections assembled end to end and having draft perforations distributed throughout their area,

the meeting ends of the sections being constructed to provide between them a tortuous draft passage, and means



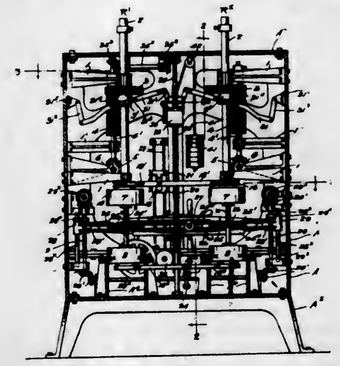
for holding the said ends of the sections separated to permanently maintain said passage.

1,349,645. SLED. WILMER H. YERKES, Pittsburgh, Pa. Filed May 22, 1920. Serial No. 383,391. 1 Claim. (Cl. 280—21.)



A sled comprising a body portion, a front runner, means for detachably connecting said runner with the body portion, said means providing a pivot for the runner and including a plug and a socket for the plug, said plug having lateral lugs and said socket having its wall grooved, means below the body portion for shifting the runner, and a lever above the body portion for actuating said shifting means.

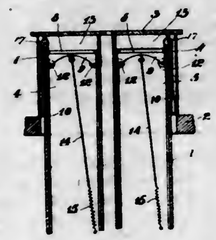
1,349,646. PIPE-THREADING MACHINE. LEOPOLD ZAJAC, Seattle, Wash. Filed Jan. 3, 1919. Serial No. 269,405. 9 Claims. (Cl. 10—92.)



1. In a pipe threading machine, the combination of a non-rotatable die, a rotatable die arranged for axial movements, and means for holding the work against rotation during the early part of the thread-cutting operation by the rotatable die, and means to disengage said means from the work whereby the same is rotated by said rotatable die while being threaded by both of said dies.

1,349,647. RESTAURANT-SERVICE DEVICE. ABRAHAM ABELSON, Brooklyn, N. Y. Filed Oct. 23, 1918. Serial No. 259,382. 4 Claims. (Cl. 187—3.)

1. The combination of a table, a transparent top providing means for examining the contents of a conveyer below the top, a conveyer below the table, an opening in the side of the table adjacent the top and affording access to the conveyer, a rope below the conveyer and attached thereto, and shock absorbing means on the rope to serve to absorb the shock of sudden stoppage of the conveyer, substantially as shown and described.



1,349,648. COMPOSITION OF MATTER FOR FILLING CRACKS IN METAL. CARL F. ALLISON, Woodlawn, Pa. Filed May 22, 1919. Serial No. 298,979. 2 Claims. (Cl. 75—1.)

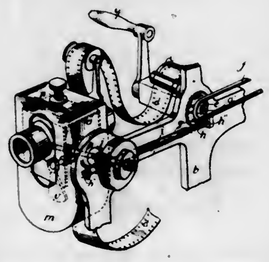
1. A composition of matter for filling cracks in metal, comprising a major portion by weight of sulfur and a minor portion by weight of powdered aluminum and powdered zinc.

1,349,649. ADJUSTABLE AND SEPARABLE STUD OR BUTTON. KEMP B. ARTHUR, Norfolk, Va. Filed Dec. 10, 1919. Serial No. 343,768. 5 Claims. (Cl. 24—91.)



1. An adjustable fastener of the character described comprising two sections, one having a cylindrical stem and the other having a cylindrical sleeve fitting over the stem, the stem being formed with a plurality of longitudinally extending grooves and with a plurality of circumferential grooves extending circumferentially from the longitudinal grooves, the sleeve having inwardly projecting studs engaging said grooves.

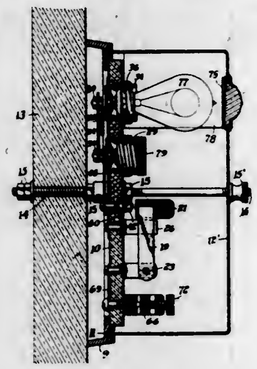
1,349,650. PORTABLE CINEMATOGRAPHIC APPARATUS. CHARLES BANCAREL, Levallois-Perret, France. Filed Jan. 13, 1919. Serial No. 270,963. 1 Claim. (Cl. 88—17.)



In a cinematographic apparatus, driving mechanism comprising a manually rotatable shaft having limited longitudinal movement carrying a worm engaging the gear on the manually operated shaft, a cross-shaft for

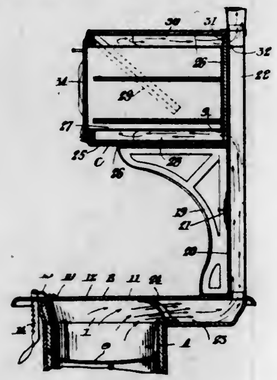
actuating operative parts of the device and helicoidal gears on the intermediate shaft and the cross-shaft, the rotation of the manually operated shaft in one direction operating through the worm and gear connection to position the intermediate shaft to engage the helicoidal gears to drive the cross-shaft, and the rotation of the manually operated shaft in the opposite direction operating through the worm and gear connection to move the intermediate shaft to separate said gears to prevent the drive of the cross-shaft.

1,349,651. INDICATING AND TESTING SUPPLY SWITCH-BOX. PERCY H. BARTLETT, Philadelphia, Pa., assignor of one-third to Joseph B. Seaman and one-third to Burleigh Currier, Philadelphia, Pa. Filed Jan. 23, 1915. Serial No. 3,906. 1 Claim. (Cl. 240—11.)



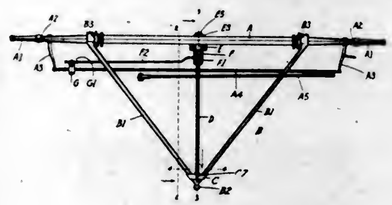
In a device of the character stated, a base, two pilot lights thereon, a circuit having two pnases across which the two lights are respectively connected, a cover protecting from unauthorized interference with the lights and means for distinguishing at a distance between the lights when one is lighted and the other is not.

1,349,652. COMBINED HEATING, COOKING, AND BAKING STOVE. BENSON CLOTHIER BEACH and JOHN HENRY BEEBY, Ottawa, Ontario,, Canada. Filed Aug. 17, 1918. Serial No. 250,352. 1 Claim. (Cl. 126—17.)



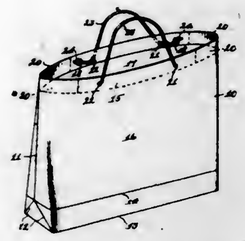
The combination with a stove of a flue, an elevated oven having spaced walls on the top, bottom and sides, a space between the walls at the top and bottom communicating with the flue baffles extending forwardly below the oven, diagonally extending baffle walls in the spaces at the side of the oven extending from the uppermost front corner diagonally toward and nearly to the lower rear corner, and baffle walls in the space between the walls at the top of the oven extending forwardly from the rear end of the oven and adapted to cause the products of combustion to pass forwardly before passing into the flue.

1,349,653. AUTOMOBILE STEERING MECHANISM. JESSE M. BENSON, Concord, Tenn. Filed Jan. 3, 1916. Serial No. 69,861. 2 Claims. (Cl. 280—94.)



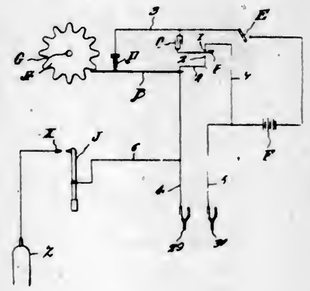
1. In a vehicle, the combination with an axle and spindles on said axle and a radius rod comprising arms secured to said axle, of an auxiliary rod having one end secured to the radius rod at the angle of the latter and having its other end joined to the axle, a rocking member supported by said auxiliary rod, means placing said rocking member in operative relation with said spindles for synchronous movement, said rocking member being in the upright position when the spindles are parallel to the axle, substantially as described.

1,349,654. BAG. JOHN C. BERGEN, New Brunswick, N. J. Filed Apr. 20, 1920. Serial No. 375,210. 4 Claims. (Cl. 229—54.)



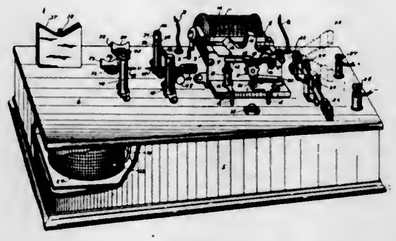
4. A bag comprising flexible side walls and a bottom, each of said side walls having a set of two perforations, an inturned upper edge formed on the side walls at the open end of the bag and having four sets of two perforations each, a strengthening strip interposed between the said inturned edge and side walls on opposite sides of the bag, each of said strengthening strips secured to the inner side of said inturned edge and having two sets of two perforations each, one set of said perforations registering with the corresponding perforations in the inturned edge and the other set of said perforations registering with other perforations in said inturned edge and side walls, handles laced through the registering perforations of said side walls, interposed strips and inturned edge from the outside of the bag and through the registering perforations in said inturned edge and strengthening strips from the inside of the bag and knots on the free ends of the handles for securing them against withdrawal through the perforations in said inturned edge, strengthening strips and side walls.

1,349,655. ELECTRICAL TESTING DEVICE. RICHARD C. BIERBOWER, San Antonio, Tex., assignor to Testall Electric Manufacturing Co., San Antonio, Tex., a Corporation of Texas. Filed June 11, 1918. Serial No. 239,454. 4 Claims. (Cl. 175—183.)



1. An electrical testing device of the character described including a primary circuit containing a source of energy, an interrupter and terminals whereby to connect the primary circuit to a device to be tested, a condenser normally in multiple with the primary circuit, and means whereby said condenser may be switched into multiple with said interrupter and disconnected from the multiple connection with the interrupter whenever desired, substantially as described.

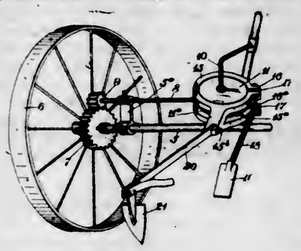
1,349,656. ELECTRICAL TESTING DEVICE. RICHARD C. BIERBOWER, San Antonio, Tex., assignor to Testall Electric Manufacturing Co., San Antonio, Tex., a Corporation of Texas. Filed Oct. 2, 1919. Serial No. 327,923. 14 Claims. (Cl. 175—183.)



1. An electrical testing device of the character set forth embodying a switch connected with one pole of electrical exciting means; a circuit interrupter and means for actuating the same; a circuit line adapted to include the primary winding of an induction coil, said switch, said interrupter and the other pole of said exciting means; a high tension circuit line adapted to include the secondary winding of said induction coil; test indicating means disposed in said high tension line; test terminals for said circuit lines; and a condenser circuit line including regulable means connecting its condenser across said interrupter, substantially as described.

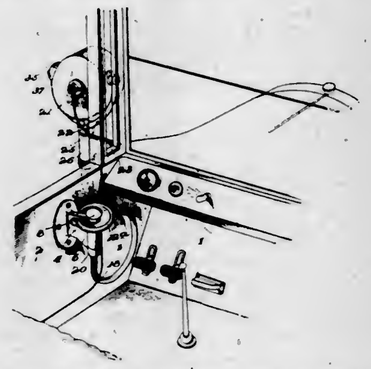
1,349,657. CULTIVATOR. HENRY A. BLAUSER, Pickerington, Ohio. Filed Apr. 14, 1920. Serial No. 373,706. 3 Claims. (Cl. 97—34.)

1. In a cultivator, a cultivator blade and its beam, a reversing clutch mechanism for the beam interposed between the beam and a carrying wheel of the cultivator for shifting the blade to the right or the left, and a lever



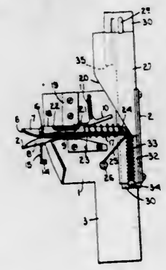
operable by the driver for controlling the operation of said reversing clutch mechanism to shift the blade to the right or left.

1,349,658. DIRIGIBLE LIGHT. HERBERT G. BLEY, Waterloo, Iowa. Filed July 11, 1919. Serial No. 310,120. 7 Claims. (Cl. 240—61.)



1. In combination, a pivoted light, a rotatable shaft adapted to shift the light in one plane, a second rotatable shaft extending through said first mentioned shaft and beyond the end thereof and adapted to shift the light in another plane, means for manually actuating one shaft and independent means for manually actuating the other shaft, and mechanism located between said means whereby the interior shaft is yieldingly held against undesired rotation.

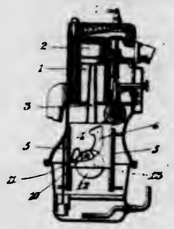
1,349,659. KNOTTER. SHEPHERD F. BROWN, Malden, Mass. Filed May 15, 1919. Serial No. 297,241. 6 Claims. (Cl. 289—12.)



1. A knotter comprising a frame having a rigid clamping and cutting member adapted to form and support the

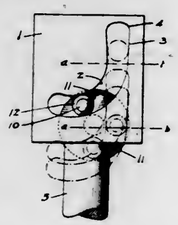
bight of parallel strands of yarn to be tied, coöperating clamping and cutting members movable relatively thereto, a looper, means for imparting to said looper a combined rotary and longitudinal movement acting to cause said looper to engage one lead of the parallel strands, carry the same across the other lead and into the path of the movable clamping and cutting members to form the knot loop, and means for actuating said movable members to cause the same to cut said strands and to hold the ends thereof adjacent the loop while the loop is tightened to form a knot by tension applied to the parallel strands.

1,349,660. CONNECTION BETWEEN PISTON-RODS AND CRANK-SHAFTS. WILLIAM BUHL, Flushing, N. Y., assignor to Bulkrug Machine Corporation, a Corporation of New York. Filed Nov. 26, 1918. Serial No. 264,135. 3 Claims. (Cl. 74—5.)



1. In engine construction, the combination of a piston, a piston rod having connection therewith, said piston rod being provided adjacent its outer end with an arcuate slot, a crank pin in engagement with the said slot, reciprocations of the said piston rod being adapted to effect revoluble movement of the said crank pin in either direction, the power of the said piston through the said piston rod acting upon the crank pin during approximately three-fourths of a revolution thereof when the latter is revolved in one direction and acting upon the same through approximately only one-fourth of a revolution when the said pin revolves in the opposite direction.

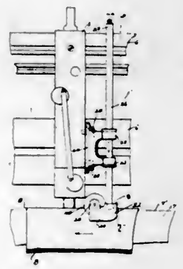
1,349,661. CAM. WILLIAM BUHL, Flushing, N. Y., assignor to Bulkrug Machine Corporation, a Corporation of New York. Filed Sept. 12, 1919. Serial No. 323,332. 6 Claims. (Cl. 74—1.)



1. A cam member provided with a cam contour, said cam contour consisting of an arcuate part adapted to convert uniform rotary motion into rectilinear quick-return motion, and a straight part adjoining one end of the said arcuate part and constituting a continuation of said cam contour.

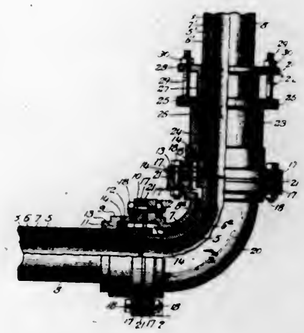
1,349,662. SIGNATURE-FOLD-CENTERING DEVICE. MARTIN CHRISTENSEN, Racine, Wis., assignor to Christensen Machine Co., Racine, Wis., a Corporation of Wisconsin. Filed Dec. 13, 1919. Serial No. 344,698. 4 Claims. (Cl. 1—7.)

2. In a book-stitching machine, the combination with a stitcher and an inverted substantially V-shaped signature saddle traversing the stitcher, of a rod vertically slidably mounted above the saddle, an inverted substantially V-shaped signature guide and fold centering member carried by the lower end of said rod and disposed over the



saddle to engage the folds of signatures passing along the saddle, means on the forward end of said member for guiding signatures therebeneath, and means for at all times retaining the apex of said member in longitudinal alinement with the apex of the saddle.

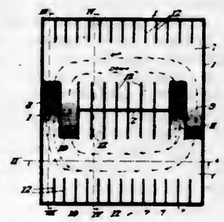
1,349,663. PIPE-FITTING. HARRY A. CUMFER, Chicago, Ill. Filed Apr. 3, 1918. Serial No. 226,376. 2 Claims. (Cl. 285—22.)



1. A flanged pipe coupling having in combination a member provided with two spaced apart threaded openings, for insertion of threaded inner and outer pipes and another member having a threaded opening for insertion of the other end of the inner pipe and having an axial extension to overlie the other end of the outer pipe; a gland coöperating with said extension and said outer pipe to provide a packing joint between the extension and the outer pipe and bolts to hold the joint members together.

1,349,664. STORAGE BUILDING. FERNAND E. D'HUMY, Englewood, N. J., assignor to Ramp Buildings Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 8, 1919. Serial No. 316,183. 10 Claims. (Cl. 20—1.13.)

1. A building structure comprising outer walls, a series of superposed floors overlying a part of the ground area within the outer walls, a second series of superposed floors lying in planes intermediate the planes of the first series of floors and overlying another part of the ground area within the outer walls, a pair of ramps connecting each floor of the first series with the next higher floor of the



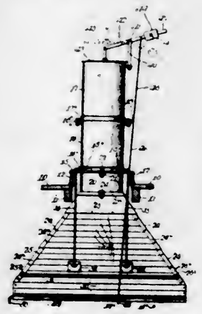
second series, and a pair of ramps connecting each floor of the first series with the next lower floor of the second series.

1,349,665. SHEEP-PROTECTOR AND COYOTE-EXTERMINATOR. JOSEPH DUNCOMBE, Salt Lake City, Utah. Filed Feb. 19, 1920. Serial No. 359,919. 1 Claim. (Cl. 119—106.)



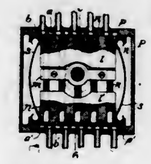
A sheep protector and animal exterminator comprising a collar to be worn on the neck of the sheep; having a plurality of poison carrying syringes secured thereto and adapted to be worn at the throat of the sheep, each of said syringes having a sharpened nozzle, and adapted to discharge said poison by pushing downwardly on the nozzles.

1,349,666. SMOKEJACK. ARTHUR J. FILKINS, Chicago, Ill. Filed Mar. 7, 1919. Serial No. 281,120. 12 Claims. (Cl. 104—52.)



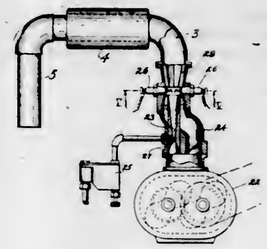
1. In a smoke-jack or chimney for round houses and the like, the combination with a vent pipe adapted to extend through the roof of the building and being designed to form substantially a continuation of the smoke pipe or stack of a locomotive and leading from the interior of the building to the exterior thereof, of means collecting and conveying the exhaust of a locomotive to the lower extremity of the pipe on the interior of the building, an integral cover for the outer and discharge end of the said pipe, and a counterbalance device by which said cover is supported in position to normally close the outer or discharge end of the pipe.

1,349,667. PUMP. JOHN A. GOGOLINSKI, Drissa, Russia. Filed May 24, 1918. Serial No. 236,292. 6 Claims. (Cl. 103—17.)



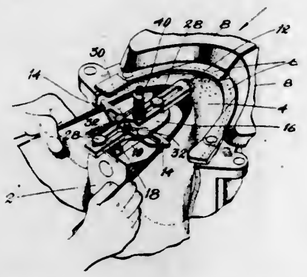
6. In a pump, in combination, a series of slidably mounted cylinders, another slidably mounted series arranged inversely and in axial alinement with the first series and pistons within said cylinders, rods connecting said pistons, a cross member connected with said rods, and means imparting to said rod both longitudinal and lateral movement whereby the pistons are moved longitudinally and the cylinders laterally, the casing containing inlet and outlet ports coöperating with openings in said cylinders and means for regulating the stroke of the pistons and the quantity of oil expulsed.

1,349,668. HEATING APPARATUS. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed May 2, 1916. Serial No. 94,865. 9 Claims. (Cl. 158—28.)



1. Heating apparatus comprising a single source of air pressure, a Venturi tube receiving a portion of the air flow therefrom and provided with a liquid fuel nozzle and adapted to produce an atomized spray of the liquid and air, said nozzle being organized in the apparatus to supply a liquid delivery to the Venturi tube which is automatically maintained in constant proportion of the air flow therethrough and suited for ignition by a spark of moderate value, an electric igniter to provide such spark intercepting said spray and stationed therein to ignite the same, and a passage for delivering the remaining portion of the air flow from said source adjacent the outlet of said Venturi tube and spark gap and for mixture with the spray from said tube, whereby, on ignition, the combustion proceeds non-explosively.

1,349,669. WORK-POSITIONING MEANS FOR UPPER-FORMING MACHINES. GEORGE J. GORSUCH, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 14, 1919. Serial No. 310,787. 35 Claims. (Cl. 12—97.)



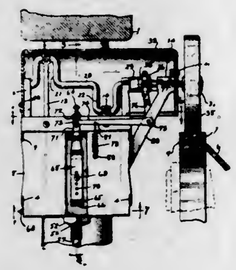
8. In a machine of the class described, the combination with a shoe form, of means mounted on said form for gaging the extent of projection of an upper beyond the plane of the bottom face of said form in different locations at the end and the opposite sides of the form, said means being movable inwardly over the form to an inoperative position, and means subject to the operator's control for retaining said gaging means in its inoperatove position.

1,349,670. SIGN CHARACTER. EDWARD HOLMES, St. Louis, Mo. Filed Feb. 12, 1919. Serial No. 276,673. 7 Claims. (Cl. 40—140.)



1. A sign character having a size receiving surface for adhering the character to glass, and a depressed border flange for the character adapted to form a pocket between the flange and the glass when the character is applied to a glass surface.

1,349,671. PUMP FOR INFLATING PNEUMATIC TIRES. ENOCH P. HULTIN, Flint, Mich. Filed Dec. 22, 1917. Serial No. 208,365. 2 Claims. (Cl. 152—11.)



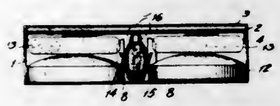
1. In a device of the class described, a wheel; a pair of air pump cylinders mounted upon the wheel; pistons operative in said cylinders; a crank shaft; rods operatively connecting the pump pistons with the cranks on said crank shaft; a clutch rigidly mounted upon said crank shaft; a driving shaft; a clutch splined to said driving shaft and normally spring pressed into engagement with said crank shaft clutch; means for rotating said crank shaft; a governor cylinder provided with a lateral opening; a piston movable in said cylinder and spring seated therein; an expansible governor bulb engaging said piston, said bulb being connected with the tire air pressure, whereby said piston is actuated when said bulb is pneumatically expanded in excess of a predetermined pressure; an arm operatively connected with said piston through said governor cylinder lateral opening; and devices connecting said arm and said sliding clutch whereby the clutches are disengaged when said governor piston is actuated by the expansion of the governor bulb.

1,349,672. VANITY-BOX. FRANK S. HYATT, Brooklyn, N. Y. Filed Oct. 31, 1919. Serial No. 334,764. 4 Claims. (Cl. 206—15.6.)



4. A vanity box holding a plurality of rouge or powder holding pads therein and a retainer comprising a single strip of flat sheet metal the ends of which are folded over on itself to form a double thickness of metal and then turned upwardly to form vertical flanges adapted to removably hold a cosmetically useful article, said retainer fitting within the vanity box with the ends of the double thickness of metal thereof engaging the opposite side walls of the vanity box whereby spaces are left between the opposite side walls and the vertical flanges of the retainer.

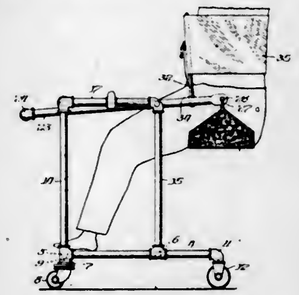
1,349,673. VANITY-BOX. FRANK S. HYATT, Brooklyn, N. Y. Filed Apr. 6, 1920. Serial No. 371,635. 5 Claims. (Cl. 206—15.6.)



3. A vanity box holding a plurality of rouge or powder holding pads therein, a retainer fitting within said box and having outwardly flaring walls extending over the rouge or powder holding pads and adapted to prevent displacement thereof and having upwardly extending vertical arms, and a removable cosmetically useful article fitting in said retainer intermediate its side walls and arms and provided with grippping means whereby said cosmetically useful article may be withdrawn.

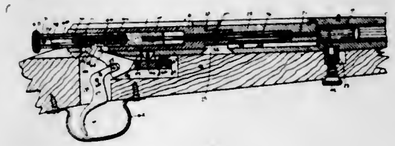
1,349,674. MEANS FOR LIFTING AND TRANSPORTING INVALIDS. STANLEY S. JENKINS, Chicago, Ill. Filed May 18, 1918. Serial No. 235,227. 4 Claims. (Cl. 5—44.)

1. In a device of the character described, the combination of a portable frame comprising a base portion provided with caster wheels, an upright portion consisting of a pair of upwardly extending posts at each side of the base portion, each pair of posts being united at their top by longitudinally extending members, and two of said posts being connected together by a transversely extending member, a pair of lever arms fulcrumed on the two unconnected posts, said arms being connected together at their forward ends but unconnected at their rear ends, the arms extending beneath said transverse post connecting member whereby upward movement of the forward ends of the arms is limited, and means pivtoally mounted on one of said longitudinal extending post connecting



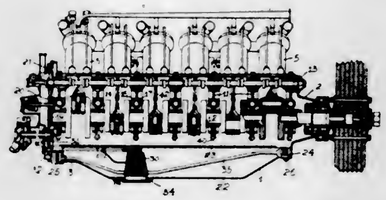
members and detachably connected to the other of said members to provide a transverse brace between said members.

1,349,675. BOLT-ACTION FIREARM. THOMAS C. JOHNSON, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed May 24, 1919. Serial No. 299,412. 16 Claims. (Cl. 42—16.)



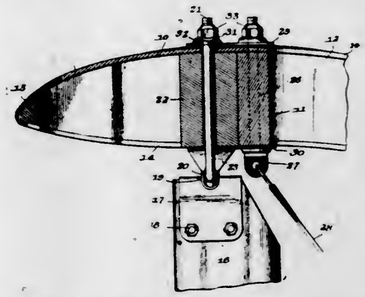
1. A bolt-action firearm having a bolt, a trigger, a sear and a rebounding firing-pin having a cocking-slot and a safety-shoulder, the said firing-pin comprising a cylindrical body mounting in its forward end a long, cylindrical, slender, resilient, blunt-ended striker, and the said sear being engaged with the cocking-slot of the firing-pin upon the manual retraction thereof and being engaged with the safety-shoulder of the firing-pin upon the closing of the bolt.

1,349,676. LUBRICATION OF INTERNAL-COMBUSTION ENGINES. CHARLES B. KIRKHAM, Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Original application filed May 18, 1916, Serial No. 98,336. Divided and this application filed Apr. 24, 1918. Serial No. 230,452. 12 Claims. (Cl. 184—6.)



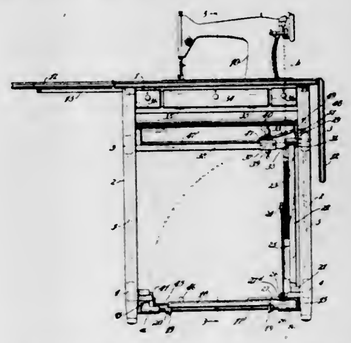
4. In an internal combustion engine, in combination, a crank case having in the lower part thereof an oil sump, a well at each end thereof, said wells being arranged above the level of the oil sump, a drip pan disposed above said pump and conducting the used lubricant to said wells, an oil screen in each of said wells, drain conduits leading downwardly from said wells to said sump, a third screen in the bottom of said sump and means for withdrawing the oil from said sump through said last-named screen and forcing same upwardly to the moving parts of the motor.

1,349,677. STRUT-FITTING. HENRY KLECKLER, Garden City, N. Y., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Nov. 3, 1919. Serial No. 335,280. 7 Claims. (Cl. 244—31.)



1. An airplane strut fitting comprising a U-bolt having its bight portion in bearing contact with one end of a strut and a compression member having a portion thereof in bearing contact with the bight portion of the U-bolt.

1,349,678. ELECTRIC SEWING-MACHINE CABINET. EMIL A. KOPF, Newark, and MARTIN HEMLEB, Elizabeth, N. J., assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 14, 1917. Serial No. 191,495. 12 Claims. (Cl. 172—179.)

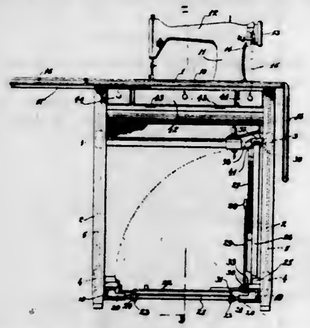


1. An electric sewing machine cabinet adapted to sustain a sewing head and a driving motor therefor, said cabinet comprising a table including supporting legs, a treadle sustained by said legs, a motor circuit including a motor-controller and an operative connection between said treadle and controller, said connection being readily broken and reëstablished by movement of the foot of the operator.

1,349,679. SEWING-MACHINE CABINET. EMIL A. KOPF, Newark, and MARTIN HEMLEB, Elizabeth, N. J., assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Sept. 14, 1917, Serial No. 191,495. Divided and this application filed Aug. 12, 1919. Serial No. 316,970. 1 Claim. (Cl. 45—27.)

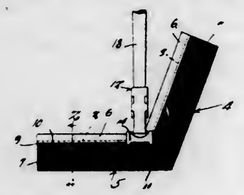
A sewing machine cabinet comprising a table-top, supporting means at the opposite ends of said table-top, a

leaf forming a shelf carried by said supporting means below the table-top, a treadle mounted below and concealed by said leaf, said leaf being pivotally sustained at



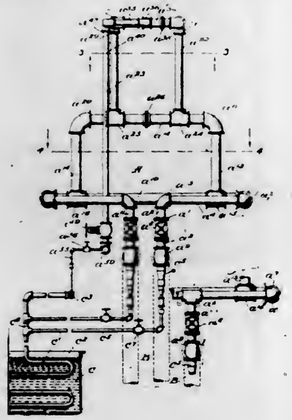
one end of the table and adapted to be swung to an upright or open position at said end of the table to expose said treadle, and a drive-wheel mounted on said leaf and adapted for operative connection with said treadle.

1,349,680. MOP. ANTON LINK, Chicago, Ill. Filed Mar. 4, 1920. Serial No. 363,226. 1 Claim. (Cl. 15—13.)



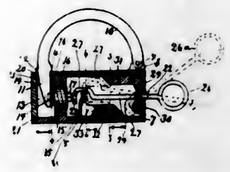
In a device of the class described, a frame comprising parts defining an angle; heads removably mounted on the parts of the frame; and a handle having means for gripping both heads at the angle defined by the parts of the frame.

1,349,681. AERIAL CONDENSER. LEWIS P. LITZINGER and PATRICK F. CONERTY, Butler, and WILLIAM SNODGRASS, Bruin, Pa. Filed June 19, 1919. Serial No. 305,387. 3 Claims. (Cl. 257—30.)



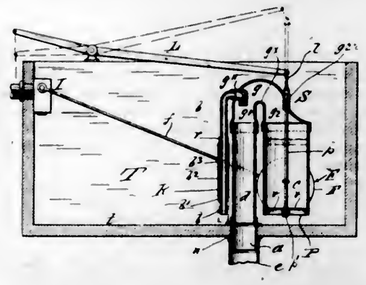
3. In a fractionating apparatus the combination of a plurality of laterally disposed and superposed receivers providing expansion chambers of relatively different capacities, pipes connecting said receivers to communicate in series, a pipe connecting the lowermost of said receivers with a still, a condenser, and independent and separately controlled communicating connections between the lower-most and upper-most of said receivers respectively with the condenser, substantially as set forth.

1,349,682. PADLOCK. GUSTAV A. LUND, Stillwater, Minn. Filed Oct. 27, 1919. Serial No. 333,839. 2 Claims. (Cl. 70—105.)



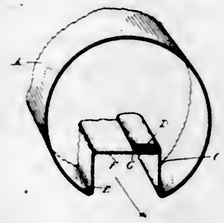
1. A padlock comprising an elongated hollow body with a slit-shaped key-hole in one end and an aperture in one side near the other end of the body, a shackle pivoted to the shell and having its free end provided with a recess and arranged to swing into the aperture, said shell having near the aperture a partition, a screw threaded in the partition and provided at one end with a round stem adapted to enter the recess in the shackle, the other end being polygonal and adapted to be engaged by a key fitting the polygonal form of the stem, a radial arm fixed in the shell and having at its end a disk spaced a short distance from and coaxially with the polygonal stem so as to guard the latter, a key adapted to be inserted into the lock through the key-hole and having a laterally arched end portion, the front leg of the arch being flat and extended across the axis of the bar of the key, and at said axial point provided with an aperture adapted to fit the polygonal end of the screw.

1,349,683. SIPHONIC FLUSHING APPARATUS. MICHAEL J. MCCLOUD, New York, N. Y. Filed Oct. 17, 1919. Serial No. 331,328. 4 Claims. (Cl. 4—3.)



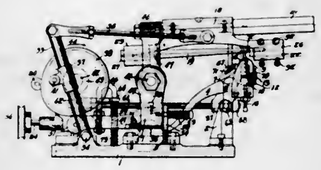
1. In siphonic flushing apparatus of the character designated, in combination with the starter cylinder and piston, discharge pipe, and siphonic air break tube and regulator sleeve, a goose neck interposed between the started cylinder and the discharge pipe and formed with an inverted trumpet shaped mouth portion inclosing the upper end of the starter cylinder and depending air break inlet between such mouth and the siphonic air break tube, said trumpet shaped mouth portion being formed with a cylindrical bearing sleeve for the piston rod in axial alinement with the center of the starter cylinder, for the purpose described.

1,349,684. CHANNEL-TUBING. JAMES A. MCINTOSH, Detroit, Mich., assignor, by mesne assignments, to Standard Tool & Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 17, 1914. Serial No. 832,543. 2 Claims. (Cl. 189—77.)



1. A channel windshield tubing, comprising a fashioned sheet metal blank having an integral channel portion and an outer surrounding portion, the opposite edge portions of said blank meeting at the intersection of one side and the bottom of said channel section, and being bent to form a lock seam of lesser width than said channel, the thickness of said steam being located in the space between said channel portion and outer tubing, and the depth of said channel being materially less than the depth of the outer surrounding portion so as to form a comparatively rigid brace between the side walls thereof.

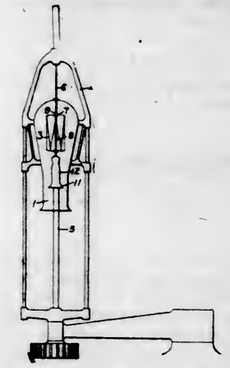
1,349,685. BAND-SAW-FILING MACHINE. ANGUS MCMILLAN, San Francisco, Calif. Filed Dec. 9, 1918. Serial No. 265,842. 12 Claims. (Cl. 76—35.)



1. In a band saw filing machine a vise for holding the saw, a pivotally mounted rocker adjacent the vise, a file-holding frame slidably mounted on said rocker above said vise, means for reciprocating said frame, the motion being more rapid during the recovery stroke than during the working stroke, means operative during the recovery stroke of the frame for pivotally moving said rocker, and means operative during the recovery stroke of the frame for advancing the saw in said vise.

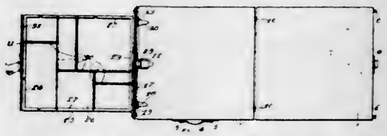
1,349,686. MANUFACTURE OF INCANDESCENT ELECTRIC LAMPS. HARRY D. MADDEN, Irvington, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed July 11, 1916. Serial No. 108,629. 10 Claims. (Cl. 49—78.)

1. The method of assembling incandescent electric lamps that comprises introducing a previously axially alined filament-carrying mount within a globe, rotating the said parts in the presence of a flame to unite them by a fused joint, moving the mount longitudinally toward its joint with the globe to compact the said joint, annealing the said



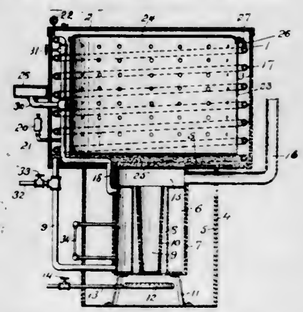
joint, and positively maintaining the said mount and the said globe in centered relation throughout the fusing, compacting and annealing operations.

1,349,687. FOLDING TABLE. EUGENE F. MITCHELL, Spokane, Wash. Filed June 9, 1919. Serial No. 302,869. 5 Claims. (Cl. 190—12.)



1. In a folding table, hollow housing sections for inclosing the structure when folded and said sections being hingedly connected to support said sections from buckling between their ends from a horizontal position, legs for the ends of said sections for supporting said sections horizontally to form a table with the open portions of said sections downwardly disposed, a container having an open top and hinged to one end of one of said housing sections and proportioned to fit in and be inclosed by said housing sections when the latter are folded into a closed position, a container lid device hinged to that end of said container opposite the points of hinge connection of said container with its housing section and adapted to be adjusted downwardly to form a leg to support the free end of the container in a horizontal position.

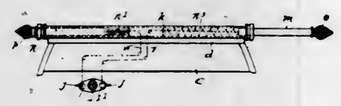
1,349,688. TIRE AND TUBE VULCANIZER. OLIVER NICHOLS, Mound Valley, Kans. Filed Jan. 12, 1920. Serial No. 350,770. 5 Claims. (Cl. 18—6.)



1. In a vulcanizer, a tire heating chamber, a casing supporting said chamber, a boiler located in said casing, means

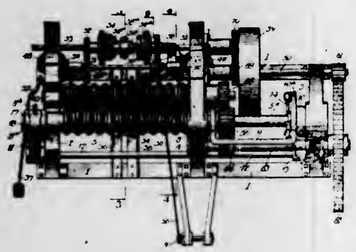
in said casing for heating said boiler and said chamber, and a steam pipe connected with said boiler and having a coil located in said chamber.

1,349,689. TRAFFIC-SIGNAL FOR AUTOMOBILES. SYLVESTER OLSZEWSKI, Detroit, Mich. Filed May 18, 1917. Serial No. 169,398. 2 Claims. (Cl. 116—50.)



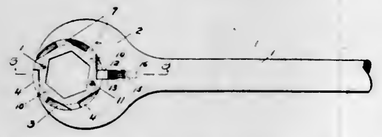
1. In an apparatus of the kind described, a reciprocating signal part, a spring acting to force said signal part to its effective position, a tube secured adjacent to the steering post and approximately parallel and having a longitudinal slot through its wall, said slot turning at right angles at one end, a piston adapted to reciprocate in said tube and having a laterally extending pin extending through said slot, said piston being connected to said part so that when it is moved toward the end of said tube at which is the lateral extension of said slot, it shall retract said signal part against the action of its spring, said piston being adapted to turn to permit said pin to extend in the laterally extending part of said slot and secure the parts in the retracted position of said signal part, substantially as and for the purpose described.

1,349,690. BENDING-ROLLS. PAUL PARCELLS, Chicago, Ill., assignor to Geo. Whiting Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 30, 1915. Serial No. 48,108. 18 Claims. (Cl. 153—73.)



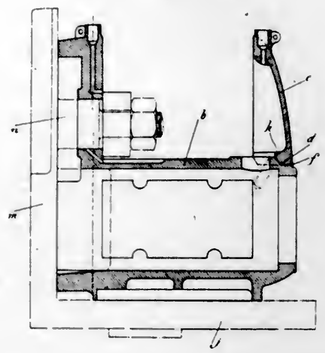
1. In a machine of the class described, the combination of bending rolls, and a removable bearing for one end of one of said rolls and arranged to swing in a plane at right angles to the axis of rotation of said roll, said latter roll having a free polygonal bearing bushing and said removable bearing having a corresponding polygonal seat adapted to engage said bushing adapted to be engaged by said removable bearing.

1,349,691. WRENCH. RALPH W. PAYNE, Irvington, N. J., assignor of one-half to Victor C. Armstrong, Hackensack, N. J. Filed Mar. 17, 1916. Serial No. 84,962. 1 Claim. (Cl. 81—60.)



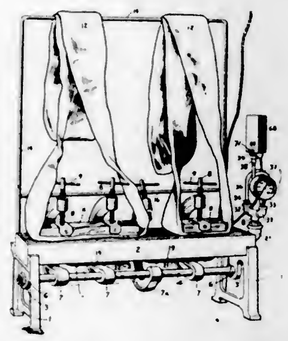
A nut wrench of the class described comprising a handle carrying a head having an eccentric aperture and a rib within the same and lying in a plane between the opposite faces of the head, and a rotatable ratchet nut-engaging unit journaled in said aperture and comprising duplicate members separably connected and having complemental teeth disposed in the same direction, the tooth portions of the two members respectively lying on opposite sides of said rib, and said nut engaging unit having its center located on the longitudinal axis of the handle and between the center of said head and one extreme end of the tool, and a pawl engaging said complemental teeth.

1,349,692. MAGNETO-FRAME. PIERRE JEAN RENÉ POSTEL-VINAY, Paris, France, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Paris, Seine, France. Filed Oct. 13, 1919. Serial No. 330,472. 3 Claims. (Cl. 171—209.)



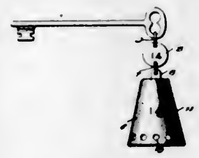
1. The combination of a magneto frame provided with an arcuated plane bearing surface and an arcuated conical bearing surface, a removable lid having corresponding bearing surfaces adapted to engage the bearing surfaces on the magneto frame respectively, and means for securing the lid to the frame.

1,349,693. VULCANIZING APPARATUS. WINFIELD S. ROBINETT, Oakland, Calif. Filed Dec. 1, 1917. Serial No. 204,927. 4 Claims. (Cl. 18—18.)



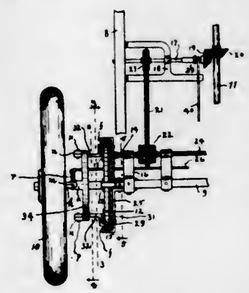
1. A vulcanizing apparatus comprising a horizontally disposed heating unit, the horizontal supporting member arranged beneath said unit and substantially co-extensive therewith, a plurality of substantially semi-circular yoke members, each having one end pivotally and slidably mounted on said supporting member and adapted to have their opposite ends lie over the upper surface of the heating unit when in operative position, and clamping elements carried by said opposite ends of said yokes to cooperate with the upper surface of the heating unit to clamp work therebetween.

1,349,694. BELL. ALEXANDER ROY, Huntington, N. Y. Filed Nov. 10, 1919. Serial No. 336,925. 1 Claim. (Cl. 116—80.)



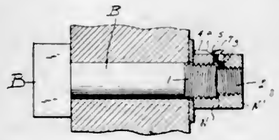
A device of the character specified comprising a flaring casing closed at one end and open at the other, a clapper within the casing near the open end and resiliently connected with the closed end, and an inclosing casing for the first named casing, said inclosing casing being secured to the closed end of the first named casing and having its walls substantially parallel with those of the said casing, and having openings near the large end of the first named casing.

1,349,695. DRIVING-GEAR FOR AUTOMOBILES. MATTHEW C. SHARPNACK and CHARLES A. CRISMAN, Omaha, Nebr., assignors of one-third to Arthur E. Agee, Omaha, Nebr. Filed Jan. 7, 1919. Serial No. 269,997. 3 Claims. (Cl. 74—101.)



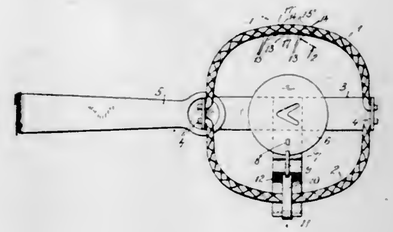
1. In driving mechanism for vehicle wheels, a vehicle axle, a gear case stationary with and traversed at its axis by the axle, a plurality of pinions equi-distant from the axle having journaled bearings on the gear case, a revoluble ring gear engaging the pinions of the gear case, a vehicle wheel journaled on the axle, and a coupling ring between and having pivotal connections with the vehicle wheel and said ring gear.

1,349,696. NUT-LOCK. CLOUGH W. SHELTON, Floyd County, Ga. Filed Apr. 17, 1920. Serial No. 374,607. 4 Claims. (Cl. 151—17.)



1. In combination with the shank and a pair of superposed nuts engaged thereon, the opposed faces of the nuts being provided with grooves adapted to register, the outer ends of the grooves being open, a key substantially snugly fitting within the registering grooves and one of said nuts being provided with means for coaction with the key to hold the same against displacement, each of the grooves in the nuts being dove-tailed, the side walls of the key being correspondingly recessed.

1,349,697. JAW-TRAP. GERARD WAYLAND SMITH, Oneida, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed Apr. 20, 1918. Serial No. 229,712. 3 Claims. (Cl. 43—90.)



1. In jaw traps, a frame, jaws loosely pivoted to said frame, a spring coöperating with said jaws and normally tending to force their coöperating faces toward each other, said coöperating jaw faces being wide and substantially flat and formed with gripping corrugations comprising a check pattern of intersecting gripping V-sectioned grooves which are deeper adjacent the inner sides of said jaws, substantially sharp projecting ridges being formed in said jaw faces adjacent said gripping grooves.

1,349,698. SAWING APPARATUS. EDWARD DE VOE TOMPKINS, New York, N. Y. Filed June 11, 1918. Serial No. 239,355. 18 Claims. (Cl. 143—68.)

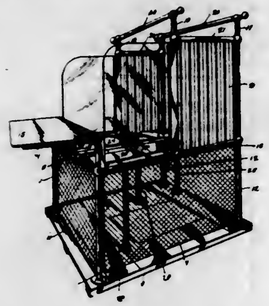


1. The combination with a plurality of reciprocating saw blades adapted to work in the same kerf, of substantially pressure-balanced mechanism connected to said blades, and means for directing an unbalanced pressure to said pressure-balanced mechanism to cause said blades to move simultaneously in opposite directions.

1,349,699. MARKING, LISTING, AND ASSORTING BOOTH. RICHARD H. TYNER, Cincinnati, Ohio. Filed Oct. 28, 1919. Serial No. 334,057. 2 Claims. (Cl. 211—36.)

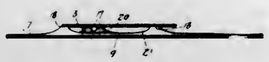
1. In a laundry marking, counting, listing and assorting booth, a base, a substantially rectangular booth open at one end, a shelf disposed substantially breast-high and extending outwardly from the booth at the end opposite the open end, a work box disposed intermediate of the ends of one side with its upper edges disposed substan-

tially waist-high, machine supporting shelves at either end of the work box, a third machine supporting shelf disposed in the end adjacent to the first described shelf



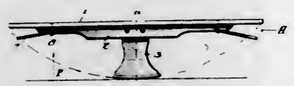
and the side opposite the work box, and a hook rack disposed on the second side of the booth adjacent to the open end thereof.

1,349,700. FREE SOUNDING-BOARD. GIOVANNI VIRZI, New York, N. Y., assignor of one-half to Joseph Virzi, New York, N. Y. Filed Feb. 13, 1919. Serial No. 276,824. 3 Claims. (Cl. 84—194.)



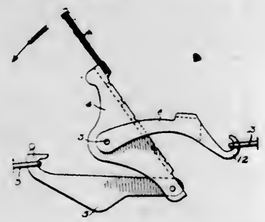
3. In a musical instrument, two closely adjacent and parallel sounding boards and spaced ribs therebetween secured throughout their lengths to one sounding board but secured to the other sounding board only at spaced points and cut away and spaced therefrom between such points.

1,349,701. TEETER-TOTTER. THOMAS WALLACE, Wabash, Ind. Filed Oct. 10, 1917. Serial No. 195,730. 2 Claims. (Cl. 46—22.)



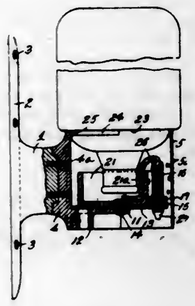
1. A fulcrum rocking support adapted for attachment at its top end to a teeter totter board, and its lower end terminating in an unbroken boarded rocking base.

1,349,702. CHAIN CLAMP AND TIGHTENER. GEORGE J. WIEDEMAN, Lewistown, and JAMES H. HUGHES, Welter, Mont. Filed Oct. 4, 1918. Serial No. 256,803. 1 Claim. (Cl. 24—69.)



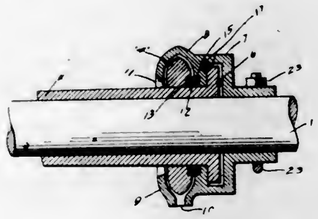
A device of the character specified comprising a central section and two end sections, the central section being channeled and one end section being pivoted at one end thereto to fold within the channel, the other member being stirrup shaped, and consisting of a body and arms, the arms fitting on opposite sides of the central section and being pivoted thereto, and the body being adapted to engage that face of the central section remote from the first named end section to limit the closing movement of the said last named section, the pivotal connection between the arms of the stirrup shaped section and the central section being offset laterally with respect to the pivotal connection of the first named section with the central section and in the opposite direction from the body of the stirrup-shaped section.

1,349,703. DISINFECTING OR DEODORIZING DEVICE. EDWARD R. WILLIAMS, Sharpsburg, Pa. Filed Sept. 7, 1917. Serial No. 190,164. 13 Claims. (Cl. 299—22.)



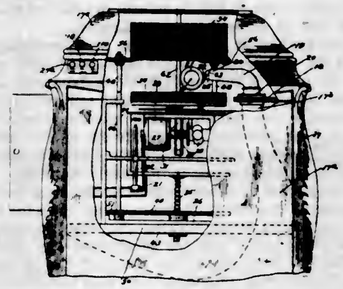
1. A disinfecting or deodorizing device, comprising a body adapted for connection to a support and carrying a casing, a cup within said casing, a receptacle for liquid supported directly by said casing and having a bottom outlet in said cup, a wick carrying member movably connected to the casing, and a wick therein for discharging liquid from said cup, said wick by movement of said member being adjustable to different positions circumferentially of said casing to discharge the liquid at different points.

1,349,704. SAND-BOX. JERRY H. WONSER, Eureka, Wash. Filed Feb. 11, 1919. Serial No. 276,294. 4 Claims. (Cl. 21—30.)



4. The combination with an axle, of a sand-box, comprised of channeled sections, one of said sections having an orifice in the bottom thereof, said section having an interior recess to accommodate a gasket, a gasket in said recess, a sleeve having a peripheral flange, a loose flange adapted to be attached to the sleeve and to register with the channeled sections, a recess in the loose flange to register with and receive the above mentioned gasket, and a means for binding the sections together, rigidly about the axle, and revolubly upon the flanges.

1,349,705. SELF-OPERATING TALKING-MACHINE. GARRETT W. WOODWARD, Chicago, Ill., assignor, by mesne assignments, to American Automatic Products Corporation, a Corporation of Illinois. Filed Jan. 20, 1919. Serial No. 272,112. 43 Claims. (Cl. 274—10.)



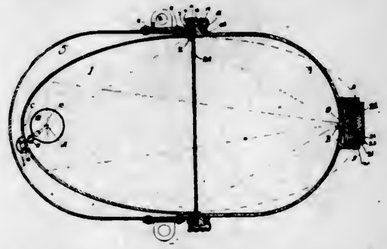
1. In a talking machine, the combination of record-driving mechanism, sound-reproducing mechanism cooperating therewith, a series of rotatable record-supporting and feeding disks each presenting a peripheral opening with portions of the disk at said opening being spaced apart vertically a distance substantially equal to the thickness of a record, the upper portions of the disks at said openings moving, in the rotation of said disks, in a plane substantially parallel with the plane of the records and entering between the lowermost record supported on said disks and the records above it, to separate them in the rotation of the disks, while the records are supported on the lower portions of said disks, the lowermost record thus separated discharging through the said openings to the record-driving mechanism, and means for causing the supported records to move, in the rotation of the disks, from a position in which they are supported on said upper portions of said disks, to a position in which they are supported on said lower portions thereof.

10. In a talking machine, the combination of record-driving means, means for feeding records, in succession, to said record-driving means, sound-reproducing mechanism coöperating with said record-driving means, means, operating automatically, to lift said sound-reproducing mechanism from the record and move it to a position in which it is out of the path of movement of the record being fed to the record-driving means, and after said second-named means have operated to feed a record to the record-driving means, to move said sound-reproducing mechanism into engagement with the record last fed to the record-driving means, and means operating automatically to discontinue the operation of the machine after the playing of a plurality of the records.

32. In a talking machine, the combination of record-driving mechanism, sound-reproducing mechanism coöperating therewith, means, operating automatically, to move said sound-reproducing mechanism into and out of playing position, means for feeding records in succession to said record-driving mechanism, means intermittently engaging said last-named means to effect intermittent feed of the records to said record-driving means, and means, operating automatically, to lock said second-named means against movement when not engaged by said third-named means, to prevent accidental feeding of a record to the record-driving mechanism during the playing of a record and to unlock said second-named means for movement to permit another record to be fed to the record-driving mechanism.

1,349,706. LIGHT-PROJECTING LANTERN. IRA DWIGHT WORCESTER, Pittsburgh, Pa. Filed Sept. 26, 1914. Serial No. 863,701. 11 Claims. (Cl. 240—41.)

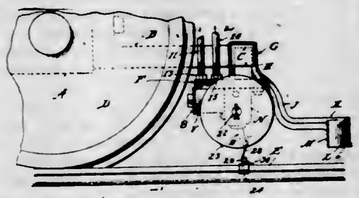
1. In a lantern the combination of an ellipsoidal mirror, a source of light arranged at the proximate focus of said mirror and an incomplete and sector-shaped lens arranged adjacent the remote focus of said mirror and there subtending the rays on one side of the axis of the emanated pencil of light, the construction permitting the free emanation of the rays on the other side of the axis of the pencil.



1,349,707. METHOD OF MAKING LEAD ARSENATE. EDWIN O. BARSTOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 28, 1918. Serial No. 242,336. 3 Claims. (Cl. 23—13.)

1. In a method of making lead arsenate, the steps which consist in maintaining a mixture of lead oxid and lead acetate, the former being present in excess; continuously separating out the basic lead acetate thus formed; and continuously mixing such basic lead acetate solution with arsenic acid, whereby lead arsenate is precipitated.

1,349,708. AUTOMATIC SIGNALING DEVICE FOR TRAINS. CHARLES E. BECKWITH, Peoria, Ill.; Mame L. BECKWITH administratrix of said Charles E. Beckwith, deceased. Filed July 24, 1916. Serial No. 110,817. 6 Claims. (Cl. 246—190.)

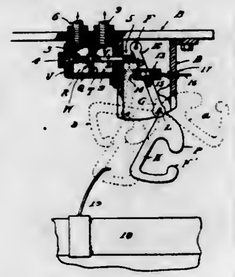


1. A device for the purposes described for trains including in its construction a portion for suspension above one of the track rails and a valve casing, said casing having a diaphragm separating it into two compartments and provided with an opening, an elastically held valve normally seated upon and closing said opening including a stem extending outside the casing, a pivotally mounted lever in position to engage the stem and depending in position to engage an obstruction on said rail, a housing inclosing a portion of the lever and having a slot through and out of which said lever extends, the latter having a covering plate for said slot.

1,349,709. SIGNALING MECHANISM FOR TRAINS. CHARLES E. BECKWITH, Peoria, Ill.; Mame L. Beckwith administratrix of said Charles E. Beckwith, deceased. Filed Oct. 26, 1916. Serial No. 127,872. 10 Claims. (Cl. 246—190.)

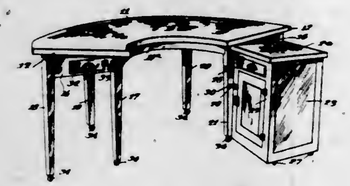
1. A signaling apparatus for trains including in its construction a depending pivotally mounted lever, a chamber for a fluid under pressure having a pair of conduits connected into it and having a dividing diaphragm between said conduits provided with an aperture, a valve normally and elastically seated upon and closing the ap-

erture and having a stem lying in the path of the lever, means to hold the lever elastically in one of its extreme



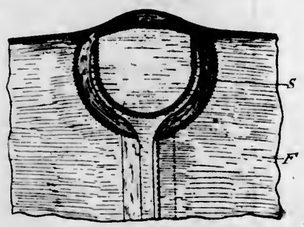
positions, and means coöperating with the lever to retard the closing movement of said valve when it has been unseated by said lever.

1,349,710. BOOKKEEPER'S WORK-TABLE. BYRON PALMER BEESON, Sapulpa, Okla., assignor of one-half to Thomas W. Mace, Sapulpa, Okla. Filed July 9, 1919. Serial No. 309,581. 2 Claims. (Cl. 45—31.)



1. A device as herein characterized, comprising a semicircular table having a continuous arc shaped outer edge defining a semicircle, the inner edge including a pair of spaced apart straight alining portions and intermediate semicircular cutout portion forming a well between said alining portions, the arc of said well being concentric with the aforesaid outer edge of the table, upper surface of the table inclined downwardly and radially from the said outer edge, and carrying a receiving cabinet detachably connected to the table frame at one end with its top surfaces disposed below the plane of the lowest point in the top surface of the semicircular table, said cabinet forming an extension of said table to receive and support books.

1,349,711. METHOD OF UNITING FABRIC SECTIONS. JOSEPH BERGER, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 27, 1916. Serial No. 139,097. 3 Claims. (Cl. 112—262.)

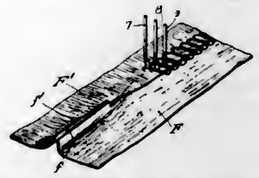


1. The method of forming a covered lapped seam consisting in uniting the edge portions of fabric sections to form the seam by a stitching mechanism forming parallel rows of needle thread loops connected above and below the fabric sections to form covering stitches and trimming both edge portions in advance of and simultaneously with the stitching of the seam, so that said edge portions will terminate in overlapped relation and within the limits of the concatenated stitching threads, whereby the overlapped edge portions will be joined and the trimmed edges thereof will be covered by said threads.

2. The method of uniting fabric sections consisting in turning the edge portions of the fabric sections to be united out of the plane of the fabric sections, trimming said edge portions, shifting one of said sections relative to the point of trimming for shaping said section, returning the trimmed edge portions into the plane of the fabric sections, and uniting said edge portions by stitching which covers the trimmed edges of the fabric sections.

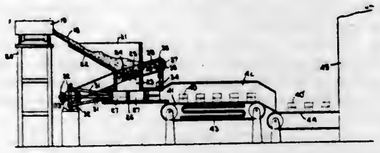
3. The method of stitching a collarette strip to the neck of a garment consisting in superposing the edge portions of the collarette strip, turning the edge portion of the neck of the garment and the superposed edge portions of the collarette strip out of the plane of the garment and the collarette strip, trimming said edge portions, shifting the collarette strip only relative to the trimming point at the beginning and ending of the the stitching operation for tapering the ends of said collarette strip, returning said edge portions to their normal plane as they are trimmed and uniting said edge portions by stitching which cover said trimmed edge.

1,349,712. METHOD OF UNITING FABRIC SECTIONS. JOSEPH BERGER, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 30, 1916. Serial No. 139,822. 1 Claim. (Cl. 112—262.)



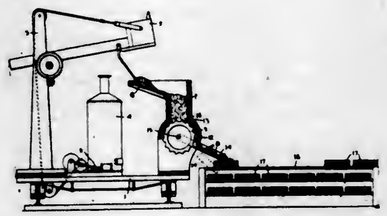
The method of forming a covered lapped seam consisting in uniting the edge portions of fabric sections to form the seam by a stitching mechanism forming three parallel rows of needle thread loops connected above and below the fabric sections to form covering stitches and trimming both edges in advance of and simultaneously with the stitching of the seam, so that said edge portions will terminate in overlapped relation and within the limits of the outer rows of needle thread loops and be penetrated by the central row of needle thread loops, whereby the overlapped edge portions will be joined and the trimmed edges thereof will be covered by said threads.

1,349,713. METHOD OF TREATING PEAT. WESLEY W. BLAIR, Newtonville, Mass. Filed June 20, 1918. Serial No. 240,888. 6 Claims. (Cl. 44—1.)



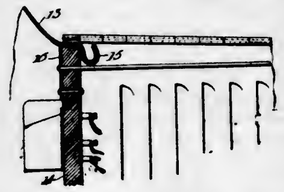
1. The method of treating peat which consists in macerating the freshly dug peat mass, pressing the same into blocks, drying the blocks and then impregnating the blocks with a fuel oil.

1,349,714. METHOD OF TREATING PEAT. WESLEY W. BLAIR, Newtonville, Mass. Filed Dec. 14, 1916, Serial No. 137,027. Renewed May 13, 1919. Serial No. 296,912. 8 Claims. (Cl. 44—1.)



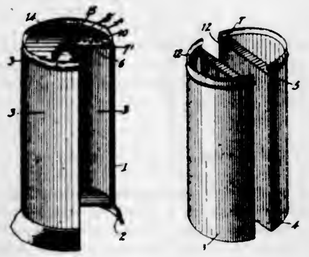
1. The method of treating peat which consists in pressing the unmacerated peat into blocks, drying the blocks and then impregnating the blocks with a fuel-oil.

1,349,715. AUTOMOBILE-COWL ATTACHMENT. JOSEPH H. COFFMAN, Americus, Ga. Filed Mar. 25, 1919. Serial No. 284,909. 1 Claim. (Cl. 180—90.)



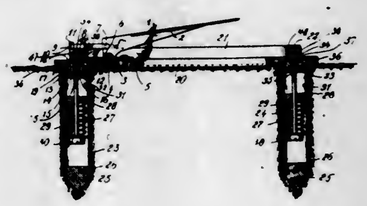
In automobile body construction, the combination with the cowl, of a gutter formed integrally upon the cowl by bending the same upon itself to provide a portion engaging upon the top edge of the dash, and a gutter member located adjacent the front face of the dash in position to receive water leaking between the cowl and the hood, and the end portion of the cowl being again bent to lie flat against and be secured to the rear face of the dash.

1,349,716. SALT AND PEPPER BOX. WILLIAM RITCHIE ELLIOT, Riverhead, N. Y. Filed Aug. 5, 1919. Serial No. 315,493. 3 Claims. (Cl. 65—45.)



2. A salt and pepper shaker comprising a plurality of identical boxes, each box having an open upper end provided with a groove adjacent the upper end and a turned-over flange acting as a stop, said flange being positioned adjacent said groove, a holder for said boxes, means positioned in said groove having a series of openings for each box, and a single rotatable cover having its edges positioned between the means in said groove and said stop, said cover having a solid section covering all of said series of openings except one.

1,349,717. GAME-TRAP. FERRAND F. ELLIS, Oneida, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed Oct. 30, 1917. Serial No. 199,285. 15 Claims. (Cl. 43—88.)



1. In game traps, a frame member, a pair of depending tubular substantially water-tight spring holders having their upper ends projecting within and secured to said frame member and having piercing points to facilitate insertion in the ground, compression spiral springs mounted within said holders and operating against stops therein, spring bolts on which said springs act, closing plungers mounted within the upper ends of said holders and adjustably connected to said spring bolts and having reduced pivot ears projecting through closely fitting apertures in said frame member, trap jaws pivoted to said ears and extending above said frame member, a pan and connected pan shank pivoted to said frame member, a setting detent connected to said pan and a setting catch formed on one of said pivot ears to hold said trap jaws in open position when said detent engages said catch.

1,349,718. SOUNDING APPARATUS. ERNST G. FISCHER, Washington, D. C. Filed Jan. 11, 1919. Serial No. 270,714. 4 Claims. (Cl. 73—5.)



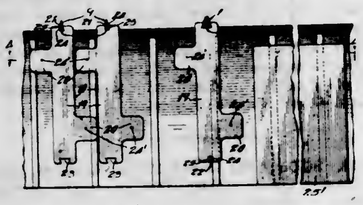
1. In a sounder of the class described wherein is provided, a sounding tube of definite volume adapted to receive water, when the sounder is immersed, and having provision for retaining the water under the pressure of immersion until the sounding tube has been drawn up; a rod of definite volume adapted to be inserted into the sounding tube, when opened, to displace the water to a given extent, and an indicator slidable on the rod and adapted to be set by contact with the end of the sounder tube as the rod is inserted in said tube, and a separate scale bar adapted to receive said rod and coöperate with said indicator to give the necessary reading of the depth of immersion.

1,349,719. TRANSMISSION-GEARING. LOU M. GARDINER, San Francisco, Calif., assignor to The Iron Horse Tractor Company, a Corporation of Delaware. Filed Nov. 4, 1918. Serial No. 261,013. 1 Claim. (Cl. 74—86.)



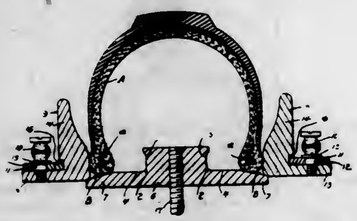
The combination of a driving shaft, a driven shaft, a worm gear on said driving shaft, and a driven gear on said driven shaft, the driven gear embodying two separable disk like sections having frusto-conical bearing sockets in the meeting faces thereof, rotatable gear teeth having frusto-conical base portions working in said sockets, and a conical series of anti-friction rollers surrounding the base portion of each tooth within the respective bearing socket.

1,349,720. RULED LINOTYPE-FORM AND MEANS FOR PRODUCING SAME. WILLIAM C. HOLLISTER, Chicago, Ill. Filed Jan. 29, 1918. Serial No. 214,379. 8 Claims. (Cl. 101—400.)



1. A ruled type form comprising a type form composed of type-bars which are provided on one side with horizontal spaced, vertical fitting ribs, said form having a level top surface below the printing face thereof, rules arranged transversely with respect to the type bars resting on and supported by said top surface, rule anchors of a width greater than the distance apart of said fitting ribs engaging said rules and formed with transversely overlapping parts adapting them to be nested together to hold rules more closely spaced than said ribs, said anchors depending between adjacent type-bars and adapted, when the type bars are pressed toward each other, to hold said rules upon the form.

1,349,721. APPARATUS FOR USE IN VULCANIZING PNEUMATIC-TIRE CASINGS FOR VEHICLES. ERNEST HOPKINSON, New York, N. Y. Filed Mar. 12, 1919. Serial No. 282,097. 12 Claims. (Cl. 18—42.)



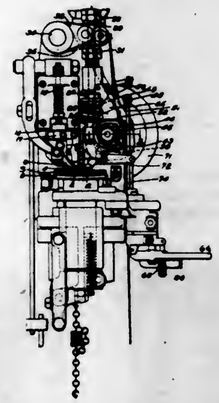
1. Apparatus for use in vulcanizing a tire casing having inner circumferential edges providing an opening therebetween, comprising a closure for the opening adapted to form with the inner wall of the casing a fluid receiving chamber, said closure having oppositely disposed non-yielding walls adapted to directly engage the inner sides of the edges, and angular extensions rigid with said walls having circumferences equal to the inner circumference of the finished casing adapted to directly engage the inner circumferences of the edges to define their size in the finished casing, and means for introducing fluid to the chamber.

1,349,722. MUSICAL WIND INSTRUMENT. FRANK JAGGER and RICHARD CARLILE JAGGER, Oldham, England. Filed Mar. 23, 1920. Serial No. 368,139. 3 Claims. (Cl. 84—397.)



1. In combination with a musical wind instrument, a receptacle on the bell of the instrument for receiving the moisture accumulating in the interior, means for securing said receptacle to the bell and means for discharging the moisture from said receptacle, for the purpose specified.

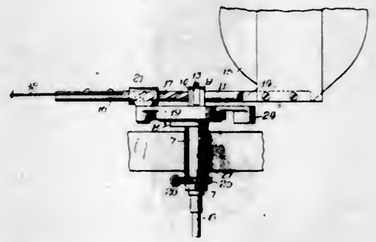
1,349,723. SOLE-FITTING MACHINE. ALBERT E. JOHNSON, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 8, 1916. Serial No. 96,170. 24 Claims. (Cl. 12—27.)



24. In a machine of the character described, the combination with means for supporting and feeding a shoe sole and two knives to form channel and edge lips in the margin of the sole, of a knife arranged to slash the lip material transversely, and means for throwing said knife into and out of operation at will during the continued operation of said feeding means.

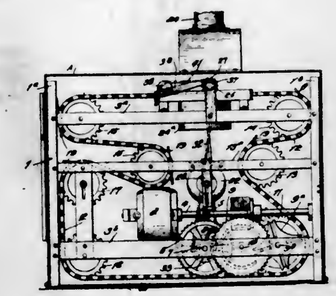
1,349,724. MECHANICAL MOVEMENT. EDWARD P. JOHNSON, Chicago, Ill. Filed Mar. 13, 1918. Serial No. 222,079. 4 Claims. (Cl. 170—154.)

1. In a device of the character set forth, the combination of a driving shaft, an eccentric through which the shaft passes, means for rotatably adjusting the eccentric, a ring around said eccentric, a bearing pivotally mounted at one side of the ring, a counterweight at the opposite side of the ring, a transverse bearing at the end of the driving shaft, a driven shaft rotatably mounted in said



bearing, means for holding the driven shaft against longitudinal movement, said driven shaft passing through the bearing on said eccentric, threads on said driven shaft, and threads in the bearing engaging with the threads on said shaft.

1,349,725. STEREOPTICON APPARATUS. MAXIMILIAN KLAIBER, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Auto Slyde & Moving Picture Machine Co., Inc., a Corporation of New York. Filed Aug. 7, 1916. Serial No. 113,464. 13 Claims. (Cl. 88—28.)

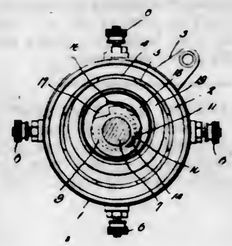


1. In a stereopticon apparatus the combination of a flexible continuous slide carrier, a slide frame carried thereby, means for imparting rotary motion to said slide frame when in its position of exposure and means for feeding said slide carrier to move the slide frame past its position of exposure.

5. In a stereopticon apparatus the combination of a flexible continuous slide carrier, a plurality of slide frames carried thereby, means for imparting rotary motion to a slide frame when in its position of exposure, means for imparting oscillating motion to another slide frame when in its position of exposure, and means for feeding said slide carrier to move the slide frames successively past the position of exposure.

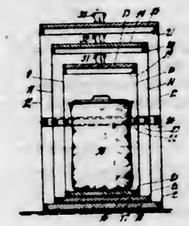
1,349,726. ROLLER-DISTRIBUTER. BRUNO LOPEZ, San Antonio, Tex. Filed Oct. 27, 1919. Serial No. 333,648. 4 Claims. (Cl. 200—26.)

1. In a device of the class described, a casing having contacts; a shaft; a collar on the shaft; inner and outer members about the collar; anti-friction devices between said members; and a spring arm extended circumferentially of the collar, the inner end of the arm being attached to the collar, and the outer end of the arm co-



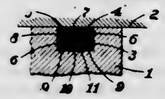
operating with the inner member to hold the outer member yieldably in eccentric relation to the shaft for co-operation with the contacts.

1,349,727. HEAT-INSULATING DEVICE. HUGO MOCK, New York, N. Y. Filed Oct. 8, 1918. Serial No. 257,325. 6 Claims. (Cl. 150—52.)



1. A heat insulating unit comprising an air-tight and waterproof cylindrical collapsible hood adapted to cover a cooking vessel when in an expanded condition, means for keeping the bottom and center of said hood in an expanded condition, and means for closing the bottom of said hood.

1,349,728. PISTON PACKING-RING. SAMUEL WILSON MORROW, Baltimore, Md., assignor to The Reus Bros. Company, a Corporation of Maryland. Filed Apr. 21, 1919. Serial No. 291,565. 2 Claims. (Cl. 74—109.)

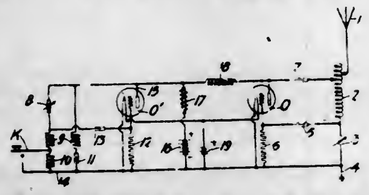


1. A piston packing consisting of three ring-shaped members, one having a recess at its inner corner open peripherally and laterally and having an inner frusto-conical surface extending from the inner corner of the recess toward the axis of the ring, a second member having a rib overlapping into said recess and having an inner frusto-conical surface extending from the base of the rib toward the axis of the ring, said frusto-conical surfaces meeting at substantially the center of the ring and co-operating to form a V shaped groove, and a spring ring bearing on said frusto-conical surfaces said spring ring being of a width greater than half the width of the piston ring groove.

2. A piston packing consisting of three ring-shaped members, one having a recess at its inner corner open peripherally and laterally and having an inner frusto-conical surface extending from the plane of the inner corner of the recess toward the axis of the ring, a second member having a rib overlapping into said recess and hav-

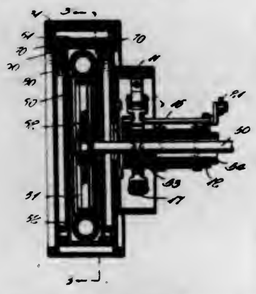
ing an innner frusto-conical surface, extending from the plane of the base of the rib toward the axis of the ring, said frusto-conical surfaces meeting at substantially the center of the ring and coöperating to form a V shaped groove, and a spring ring bearing on said frusto-conical surfaces, said spring ring being of a width greater than half the width of the piston ring groove.

1,349,729. MODULATING AND TRANSMITTING SYSTEM. EDWARD L. NELSON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 8, 1918. Serial No. 221,341. 13 Claims. (Cl. 250—17.)



1. In a transmitting system, an oscillation circuit including an antenna, a three-electrode vacuum tube associated with said circuit to generate oscillations therein, a second three-electrode vacuum tube, an associated with said first mentioned tube, an oscillation circuit for said second mentioned tube, a source of anode-cathode current for said tubes, a circuit through which the current is supplied, and means in said circuit for maintaining the sum of the currents through said tubes constant.

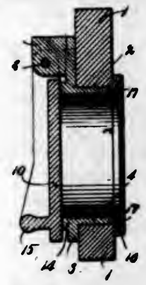
1,349,730. VEHICLE-WHEEL. WILLIAM M. PARHAM, Spring Hill, Tenn. Filed Aug. 1, 1918. Serial No. 247,814. 4 Claims. (Cl. 305—7.)



1. The combination in a vehicle supporting mechanism, of an axle, a wheel having a peripheral shoulder thereon, and a second wheel of greater diameter than the first said wheel and having an annular shoulder of less diameter than the said peripheral shoulder, the shoulder of greater diameter being supported on the shoulder of less diameter at a point of contact above said axle, a support on said axle, a rocker on said support, an arm on said support, a pair of levers pivotally mounted on said arm and extending on opposite sides of said axle, means connecting the free ends of said levers with said rocker in a relation to enable them to be actuated by the rocker, and means carried by the wheel of greater diameter and operable by said levers to shift said point of contact relative to the vertical plane that coincides with the axis of said wheel of greater diameter.

1,349,731. COMBINED MAIL-OPENING AND DOOR-KNOCKER. THOMAS H. PEGNAM, Brockton, Mass. Filed Feb. 6, 1919. Serial No. 275,289. 1 Claim. (Cl. 20—39.)

A combined letter opening and door knocker comprising a plate having a circular opening therethrough and adapted to register with a circular hole in a door or the like, an outwardly projecting rim on the plate defining an extension of the circular opening, a combined cover and



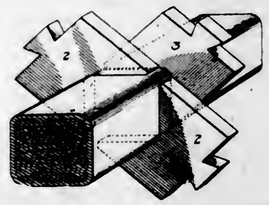
knocker pivotally mounted on the plate above the circular opening and coöperating with the projecting rim to act as a cover for the circular opening as a door knocker.

1,349,732. STOVE. NOEL PEMBERTON-BILLING, Hertford, England. Filed July 23, 1919. Serial No. 312,854. 19 Claims. (Cl. 126—4.)



1. For a domestic heating stove which is to be used for heating a plurality of receptacles, the combination of a fire-chamber, a flue communicating between the upper interior of the fire-chamber and a port in a member outside the fire-chamber, another flue communicating between the lower end of the fire-chamber and another port in a member outside the fire-chamber, and a single distributing device for the flue gases issuing through the said ports, said device being adapted to direct the main draft to any one or all of the receptacles to be heated.

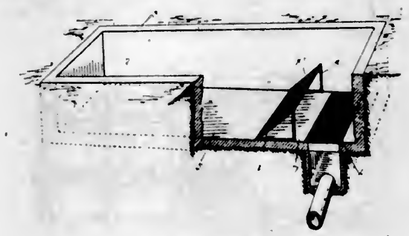
1,349,733. METHOD OF TREATING STEEL INGOTS. CHARLES H. READ, Pittsburgh, Pa. Filed Aug. 5, 1916. Serial No. 113,296. 5 Claims. (Cl. 29—148.)



1. The method of treating ingots, consisting in removing them from the casting molds and applying successive

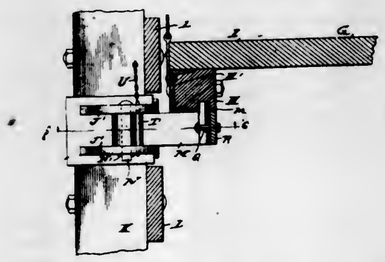
localized pressures to different successive portions thereof from opposite sides in successive passes before the interior is completely set and while a portion thereof is still in a liquid condition, to thereby disseminate the central liquid portion of the ingot throughout the mass of the ingot and distribute the segregated impurities.

1,349,734. PROTECTOR FOR SEWERS OF ENGINE CINDER-PITS. THOMAS RILEY, Oelwein, Iowa. Filed Nov. 5, 1919. Serial No. 335,919. 1 Claim. (Cl. 182—10.)



The combination with an engine cinder pit, having side and end walls, and a sewer opening at one end thereof, of a horizontal grating located over the mouth of the sewer and on a level with the floor of the pit, and an inclined grating of finer mesh than said horizontal grating and located transversely of the pit at one side of said horizontal grating, the latter having a space thereover adapted for a workman to take place unobstructed by said inclined grating.

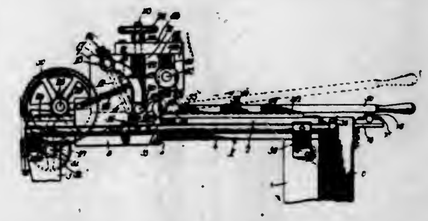
1,349,735. ADJUSTABLE DECK-SUPPORT FOR CARS. JOHN BELL SHELTON, San Francisco, Calif. Filed Oct. 8, 1919. Serial No. 329,219. 6 Claims. (Cl. 105—370.)



1. In a car of the character described, an adjustable platform, means for raising and lowering said platform, means for supporting said platform when raised, comprising a plurality of castings adapted to be secured to spaced upright members of the car frame, a horizontally swinging bracket arm pivoted to each of said castings adapted to swing beneath the platform to support the latter, and also between the upright members of the car frame and out of the path of the platform, that the latter may be lowered to the floor of the car and slats connected with the free ends of a plurality of said swinging bracket arms, whereby they may be operated simultaneously.

1,349,736. SAFETY PLATE-HOLDER FOR ELECTROTYPE AND STEREOTYPE SHAVING MACHINES. CHRISTIAN N. SMITH, Elgin, Ill. Filed July 29, 1918. Serial No. 247,277. 15 Claims. (Cl. 90—27.)

1. In an electrotype and stereotype shaving machine, the combination of a plate-supporting bed, a knife-supporting carriage extending transversely with respect to and adapted to travel over the bed, a knife mounted on and movable with the carriage in position to engage and shave a plate supported upon the bed, a plate-holder mem-

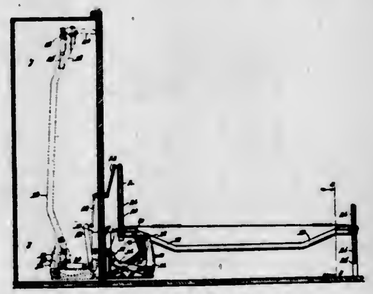


ber pivotally connected with the carriage and extending forward in advance of the same and over the bed and acting to operatively engage and hold down a plate supported by the bed and engaged by the knife, and means for operating the knife-supporting carriage.

1,349,737. PACKING MATERIAL. ALBERT A. SOMERVILLE, Flushing, N. Y., assignor to New York Belting & Packing Company, a Corporation of New York. Filed Nov. 15, 1917. Serial No. 202,183. 3 Claims. (Cl. 106—8.)

1. Packing material comprising fibrous material saturated or impregnated with shellac dissolved in alcohol and containing an unctuous material.

1,349,738. WALL-BED. JOHN SORENSEN, Chicago, Ill. Filed Aug. 10, 1916. Serial No. 114,134. 2 Claims. (Cl. 5—54.)

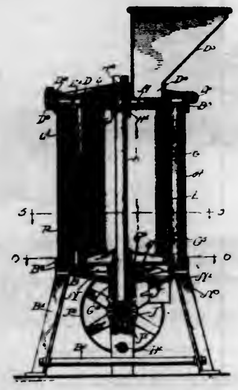


1. The combination of a support; and a bed construction pivoted for folding upwardly against said support, said bed construction being pivotally mounted on two swinging members to cause the arcs of swing of the pivotal mountings of the bed construction to cross each other; and a spring operatively connected with one of said swinging members and arranged to operate to yieldingly hold said bed construction in both its folded and unfolded condition, substantially as described.

1,349,739. FRUIT AND VEGETABLE PULPING MACHINE. CLARENCE E. STEERE, Milwaukee, Wis., assignor to Henry Scarborough, Milwaukee, Wis. Filed Feb. 21, 1917. Serial No. 149,991. 17 Claims. (Cl. 146—9.)

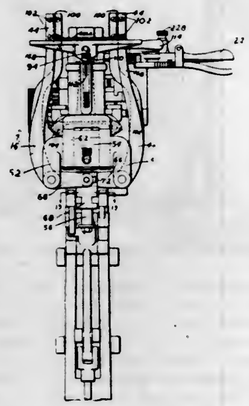
6. A machine for separating the juices and pulp of crushed food products comprising a cylindrical screen, a rotary cylinder disposed within and concentric with respect to the screen to provide an annular space between its periphery and the screen, the opposed surfaces of the cylinder and screen being longitudinally straight, means

for feeding said material to said annular space, and longitudinally extending means on the periphery of the cylinder adapted to retain work material on the periphery of the cylinder against relative rotation whereby the ma-



terial is bodily rotated with the cylinder to impart centrifugal force thereto for causing portions of the material to pass through the screen, said centrifugal force being uniform throughout the extent of the cylinder.

1,349,740. SOLE-PREPARING MACHINE. WILLIAM C. STEWART, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 9, 1915. Serial No. 33,040. 25 Claims. (Cl. 33—4.)



24. A sole preparing machine having, in combination, a support for the sole, a ball line marker, a breast line marker, means for effecting a relative adjustment of said markers for soles of different sizes, and means to actuate said markers to form notches extending completely across the edge of the sole to indicate the location of the ball and breast lines.

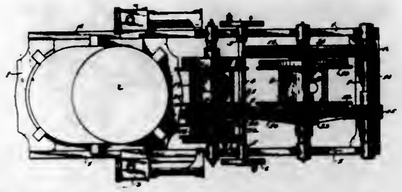
1,349,741. TATTING-SHUTTLE. WILLIAM T. THORP, Hillsboro, Ill. Filed June 13, 1919. Serial No. 303,870. 2 Claims. (Cl. 66—10.)

1. A device of the class described comprising a body having side walls tapering together at each end and connected together at said ends, a reel rotatably mounted in said body, said reel having a tubular journal engaging



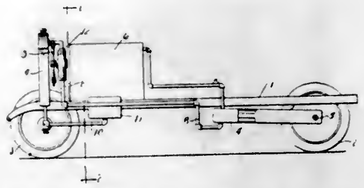
with one side of the body and a handle hingedly connected to said journal and adapted to be swung into the said journal when not in use.

1,349,742. TWO-SPEED LOGGING-ENGINE. HARRY L. TURNEY, Portland, Oreg. Filed Nov. 11, 1918. Serial No. 262,071. 6 Claims. (Cl. 74—59.)



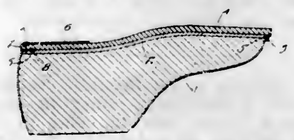
1. In a two speed logging engine, in combination, a support, a direct drive shaft mounted therein, a driving gear thereon, a drum shaft with drum thereon, drum-driving gears on said drum shaft, means for clutch-locking either of said drum-driving gears and said drum together at will, one of said drum-driving gears being in mesh with the driving gear on said direct drive shaft, an indirect drive shaft, and gears on said indirect drive shaft in mesh, respectively, with the drum-driving gears on said drum shaft.

1,349,743. MOTOR-VEHICLE. ALEXANDER G. VAIR, Ravenna, Ohio. Filed Dec. 31, 1917. Serial No. 209,809. 2 Claims. (Cl. 60—96.)



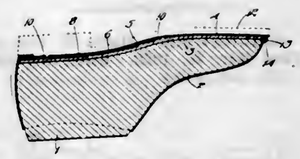
1. In an automobile, the combination of a water reservoir of medium size, a boiler, an engine for propelling the vehicle, a condenser near the front of the vehicle, an exhaust passage leading from said engine to said condenser, a fan for cooling said condenser and placed in back thereof, a motor operated by the exhaust steam from the engine for driving the fan, and a conduit leading the condensate from the condenser to the water reservoir.

1,349,744. SHOE. HERMAN WESTLING, Hudson, Mass., assignor to Apsley Rubber Company, Hudson, Mass., a Corporation of Massachusetts. Filed Nov. 24, 1919. Serial No. 340,165. 4 Claims. (Cl. 36—14.)



1. A rubber-soled canvas shoe having a canvas upper, an inner sole, and a welt all united together, the welt extending around the forepart and the shank and terminating at points substantially opposite the breast of the heel and outer sole, the rubber sole secured to the inner sole throughout the forepart and shank, a layer of canvas attached to the outer face of the heel portion of the outer sole, and fastening nails which pass through said canvas layer and through the outer and inner soles, the nails having heads which bear against the outer face of said canvas layer.

1,349,745. SHOE. HERMAN WESTLING, Hudson, Mass., assignor to Apsley Rubber Company, Hudson, Mass., a Corporation of Massachusetts. Filed Nov. 24, 1919. Serial No. 340,166. 4 Claims. (Cl. 36—76.)



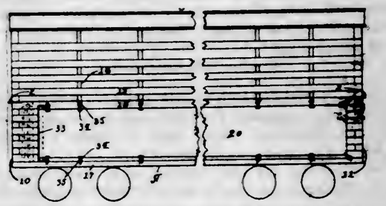
1. A rubber-soled shoe having an inner sole, a covering layer of thin flexible material on the bottom of the inner sole, said covering layer having a transverse slit therein at the forward part of the shank portion thereof, a metal shank member which extends through said slit, the forward end portion of the metal shank lying between said covering layer and the inner sole, the other portion of said shank member extending rearwardly over the outer face of the shank portion of the inner sole, a leveling member extending from the heel portion forward over the shank portion of the inner sole to a point forward of said metal shank, said leveling member having a recess therein which receives the said metal shank member, and an outer sole for the bottom of the shoe.

1,349,746. CONDENSER-TANK FOR REFRIGERATING AND ICE-MAKING MACHINES. WILLIAM YOUNG Tacoma, Wash. Filed Feb. 1, 1919. Serial No. 274,403. 3 Claims. (Cl. 257—224.)



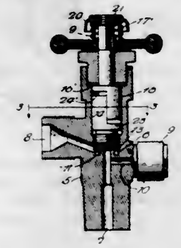
1. In a refrigerating condenser tank having vertical water tubes therethrough, an outlet discharge pipe from said tank, an upright pipe having upper and lower openings connected with said outlet discharge pipe, an ammonia gas supply pipe with an outlet in said tank below said connection, of a vent into said supply pipe at its top end to equalize the gas pressure within said tank.

1,349,747. STOCK-CAR. OSCAR A. ACKERMANN, St. Paul, Minn. Filed Jan. 28, 1919. Serial No. 273,682. 3 Claims. (Cl. 119—8.)



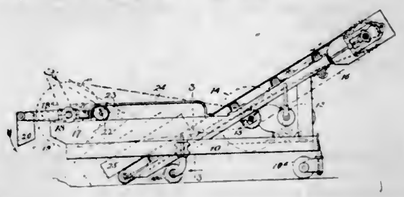
1. In combination with a stock car body having an open-work side, a magazine arranged in one corner adjacent one side of the car body, a roller journaled in said magazine, said side having an opening adjoining said magazine, a curtain secured by one end to said roller and its other end being adapted to be drawn through said opening in said side and moved longitudinally over the outer surface of the lower portion of said side substantially from end to end of the car, means for detachably coupling said curtain in said outstretched condition over and to said side and means for turning said roll to wind said curtain in said magazine.

1,349,748. DRUM-VALVE. CHARLES L. BASTIAN, Chicago, Ill. Filed Oct. 30, 1919. Serial No. 334,442. 5 Claims. (Cl. 251—48.)



5. A valve comprising a casing having a chamber and a passage leading thereto, a nipple relatively and longitudinally movable in said chamber to close and open communication between said passage and the chamber, a rotatable stem mounted in the casing against longitudinal movement, and means for rotating the stem, said nipple and stem having heads located in said chamber and each comprising a cylindrical portion and a semi-cylindrical portion, said semi-cylindrical portions being arranged with their flat faces in engagement, and each head having a semi-cylindrical shoulder on its cylindrical portion to be engaged by the end of the semi-cylindrical portion of the other head.

1,349,749. LOADING-MACHINE. FRANK BILLINGS, Cleveland, Ohio. Filed Aug. 24, 1916. Serial No. 116,588. 6 Claims. (Cl. 193—49.)



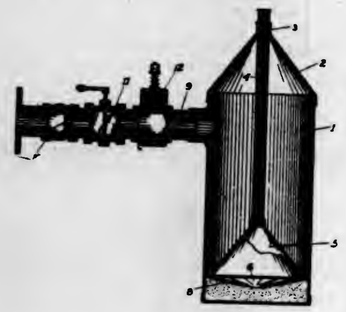
1. In a loading machine, a frame having a conveyer, a digging member having a blade for moving material

onto the conveyer, a crank for actuating said member and connected thereto adjacent the blade, the said member being substantially horizontal when the crank is in its forward horizontal position, and the frame having a guide member with respect to which the rear part of said digging member has a straight line motion during the rotation of the crank.

1,349,750. PURIFICATION OF DISTILLATION-GASES OF COAL. EDGARD CISELET and CAMILLE DEGUIDE, Brussels, Belgium. Filed July 6, 1915. Serial No. 39,382. 12 Claims. (Cl. 23—13.)

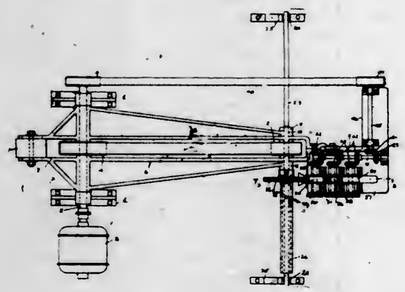
1. In a process for the purification of distillation gases of coal, treating the gases with a liquid containing ammonia in solution and a basic oxy-compound in a suspended condition.

1,349,751. DUST-FUEL CARBURETER. HARRY N. CROSS, Stockton, Calif. Filed Feb. 12, 1919. Serial No. 276,497. 5 Claims. (Cl. 302—52.)



1. A nozzle for dust fuel carbureters comprising a hollow cone adapted to rest on the fuel, the top of the cone having free communication with the atmosphere, and means in the bottom of the cone whereby when air is drawn through the same by the force of an exterior suction a cloud of fuel dust will be caused to arise thereabout.

1,349,752. APPARATUS FOR RECOVERING RUBBER FROM ARMORED HOSE AND THE LIKE. CLARENCE F. ERB, Youngstown, Ohio. Filed July 21, 1919. Serial No. 312,184. 10 Claims. (Cl. 154—5.)



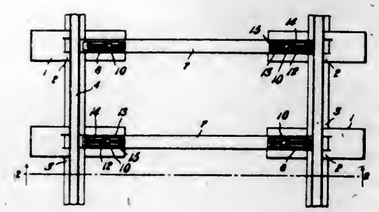
1. In apparatus of the character described, the combination of a rotatable and longitudinally movable hose carrying mandrel, cutting means mounted above said mandrel and adapted to be moved into contact with the hose thereon and means for pulling the armor loose from the hose.

1,349,753. FOOD PRODUCT. NATHANIEL C. FOWLER, Jr., Boston, Mass.; Fannie A. Fowler administratrix of said Nathaniel C. Fowler, deceased. Filed Oct. 4, 1915, Serial No. 53,878. Renewed Jan. 7, 1920. Serial No. 350,062. 4 Claims. (Cl. 99—11.)

1. A food product comprising a body of cooked material having cereal flour as its basis and having intermingled therewith the ground solids of nuts from which oil has been removed, and nut oil, the nut oil being separate from the nut cellular structure in which it was originally found.

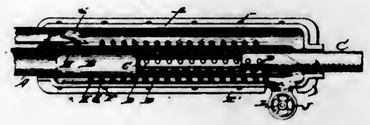
4. A food product, comprising the cooked product of a mixture containing nut materials, including constituent solids from which the oily elements have been separated, finely ground, and nut oil dissociated from the cellular structure originally containing it.

1,349,754. RAILWAY-TIE. ELMER E. FOX, Massillon, Ohio. Filed Mar. 19, 1920. Serial No. 367,035. 6 Claims. (Cl. 238—112.)



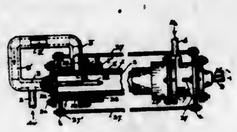
1. A railway tie comprising two rail supporting plates each having integral tangs stamped therefrom to engage the base flange of a rail, a tie bar connecting said plates and provided with angular portions to engage the base flanges of the rails, a bolt located through each supporting plate and through the tie bar and means upon said bolt for drawing the tie bar and the supporting plate tightly together to clamp the base flange of the rail therebetween.

1,349,755. COMBINED MUFFLER, VAPORIZER, AND MIXING-CHAMBER FOR GAS-ENGINES. PERRY J. GARRISON, Oxford, Mich., assignor of one-half to William Reed, Oxford, Mich. Filed Mar. 20, 1919. Serial No. 283,809. 1 Claim. (Cl. 48—107.)



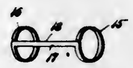
A carbureting device for internal combustion engines having an exhaust pipe leading therefrom comprising a chamber of but slightly greater diameter than said exhaust pipe and into one end of which the exhaust pipe feeds, an outlet from said chamber comprising a perforated tube adapted to impede the gases in the chamber to effect a greater distribution of heat and to muffle the explosion of the engine, a fuel tube for one grade of fuel and a second tube for another grade of fuel coiled about the exterior of said enlarged chamber, an air heating means formed of separable sections of comparatively large diameter between the ends but having openings in the ends which fit the exterior of said chamber, a mixing chamber extending into the air heating means and into which the fuel tubes open, and means for admitting air to the air heating means.

1,349,756. PROCESS OF FORMING A MIXTURE OF HYDROGEN AND NITROGEN FOR AMMONIA SYNTHESIS. GEORGE P. GERFIN and MAX MAURAN, Niagara Falls, N. Y., assignors to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 15, 1918. Serial No. 262,716. 6 Claims. (Cl. 23—10.)



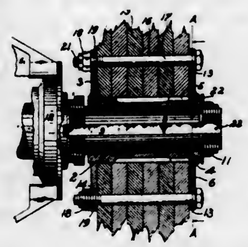
1. A process of producing substantially pure, mixed hydrogen and nitrogen which comprises forming a mixture of air and hydrogen, in which, per unit of volume, the hydrogen is present in excess of the amount thereof which would completely unite with the oxygen content of such volume, in the form of water, causing said mixture to flow through a conduit the walls of which are substantially incapable of deleteriously affecting the product to be formed, igniting said mixture in said conduit and maintaining the temperature of the flame thereby formed, sufficiently high to insure substantially complete elimination of free oxygen from the mixture, cooling the reaction products, separating the water therein from the gases present, compressing said gases and purifying them preparatory to the effectuation of ammonia synthesis therefrom.

1,349,757. CARBON-SHEARING AND COMPRESSION DEVICE FOR INTERNAL-COMBUSTION ENGINES. HENRY H. GOVE, Biddeford, Me., assignor to Gove Motor Company, Biddeford, Me., a Corporation of Maine. Original application filed Apr. 10, 1914, Serial No. 830,906. Divided and this application filed Dec. 28, 1917. Serial No. 209,216. 3 Claims. (Cl. 123—190.)



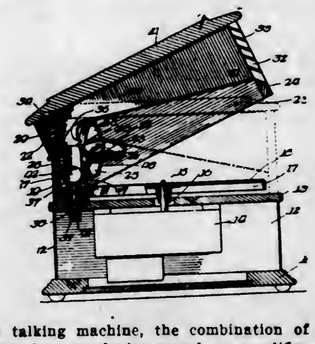
2. A carbon shearing device for internal combustion engines, comprising an expansible split ring, a bar attached thereto at right angles therewith, one side of said bar being in alinement with the split in said ring and a carbon shearing edge in the side of the bar in alinement with the split and in alinement with the periphery of said ring, whereby the shearing edge is forced outwardly tangentially of the split ring to hold said edge in operative position.

1,349,758. PROPELLER-MOUNTING. ELBERT J. HALL, Berkeley, Calif. Filed Dec. 28, 1915. Serial No. 69,085. 5 Claims. (Cl. 170—173.)



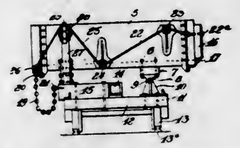
1. A mounting for an aeroplane propeller comprising, in combination, a hub having a fixed flange and a removable flange each of said flanges being provided with a plurality of circumferentially disposed holes, the holes in said fixed flange being materially larger than those in said removable flange, an air screw arranged upon said hub between said flanges, a plurality of bolts passing through the said flanges and through said air screw, said bolts forming a tight drive fit in said air screw and clearing the edges of the holes in said fixed flange, and a nut on each of said bolts having an extension adapted to bush the bolt in the fixed flange, said nut and extension being adapted to be unscrewed from the bolt whereby the air screw with the bolts therein may be withdrawn bodily from said fixed flange.

1,349,759. TALKING-MACHINE. WILLIAM M. HOLLOWAY, Maywood, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed July 31, 1915. Serial No. 42,972. 1 Claim. (Cl. 274—2.)



In a talking machine, the combination of mechanism and parts for reproducing sound, an amplifier, and a tube for conveying sound from said reproducing mechanism and parts to said amplifier, the communication between said tube and amplifier being open and loose without contacting parts, and pivotal supports for said tube and amplifier respectively whereby they have independent movements while the tonic connection is maintained.

1,349,760. DUMPING-VEHICLE. GEORGE L. HANCOCK, Geneva, N. Y. Filed Nov. 12, 1919. Serial No. 337,456. 8 Claims. (Cl. 105—274.)



2. In a dumping container, the combination with supporting means, of a body movable thereon from carrying to dumping position, a portion on said body movable relative thereto to permit dumping of the material upon movement of said body to dumping position, controlling means for said movable portion secured thereto and to said body, and actuating means on said supporting means disengaged from said controlling means when said body is in dumping position but coöperating therewith upon return of said body to carrying position to restore said movable portion to corresponding position.

1,349,761. BUTTON. HERMAN H. HELWIG, Philadelphia, Pa., assignor to The Pivot Button Company, Inc., Philadelphia, Pa., a Corporation of New Jersey. Filed Apr. 7, 1919. Serial No. 287,984. 11 Claims. (Cl. 24—105.)

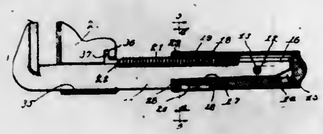
1. In a button, the combination of a shell having a shouldered rear portion, a stud adapted to be inserted

into said shell, a holding device for said stud arranged in said shell in engagement with said shouldered portion,



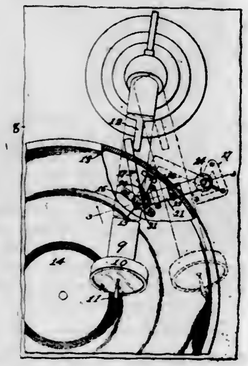
and an annular bead formed in said shell by means of which the holding device is held in place against said shouldered portion.

1,349,762. WRENCH. DANIEL HERLIHY and MILAN H. FISHER, Chicago, Ill.; said Fisher assignor to said Herlihy. Filed Oct. 17, 1919. Serial No. 331,448. 3 Claims. (Cl. 81—160.)



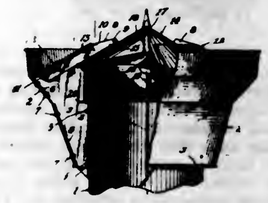
1. In a wrench, the combination with a shank having a jaw at one of its ends, of a handle mounted on the other end of the shank and having a longitudinally extended opening for the latter and provided with a longitudinally extended recess communicating with said opening, means to secure the handle and shank together, a rack bar mounted longitudinally and slidably on the shank and extended into said recess of the handle, a jaw carried by the rack bar, said rack bar having at one of its edges a part overhanging the shank and provided with transversely disposed teeth extended from one of its edges to the other edge thereof, a nut rotatably mounted on the handle and having segmental screw-threads to engage the teeth of the rack bar, the ends of each screw-thread being sufficiently spaced apart to permit of the free movement of the rack bar there-between, one end of each of said segmental threads being inwardly beveled and having a knife-like edge presented toward the teeth of the rack bar.

1,349,763. PHONOGRAPH CONTROL. JOSEPH HOFFAY, New York, N. Y. Filed June 26, 1916. Serial No. 105,908. 14 Claims. (Cl. 74—46.)



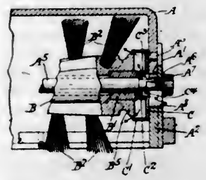
1. The combination with a turntable and a member traveling thereover as said turntable rotates, of mechanism for automatically stopping the rotation of said turntable after a selected movement of said member thereover, said mechanism comprising an element arranged to follow the movements of said member when the turntable is at rest, and means for automatically locking said element in any position into which it has been moved by said member when said mechanism is rendered inoperative to permit the turntable to rotate, thereby to set said mechanism for the selected movement.

1,349,764. VENTILATOR. CHARLES HOFSTETTER, Peoria, Ill. Filed Oct. 4, 1918. Serial No. 256,892. 5 Claims. (Cl. 98—4.)



4. In a ventilator, in combination, an eduction pipe having an open upper end, a skirt surrounding the said pipe at said upper end and extending above the opening thereof, braces connecting the skirt and pipe, a cap supported in spaced relation above said opening, a valve suspended beneath the same adapted for closing the said opening but normally spaced therefrom, a ring having its inner marginal edge spaced above the marginal edge of the cap and its outer marginal edge overhanging the space between the skirt and the pipe, means for securing the ring to the cap in spaced relation and detachably secured to the braces, the said cap and ring and said valve being bodily removable from said braces.

1,349,765. METHOD OF AND APPARATUS FOR PROTECTING THE BEARINGS OF SUCTION-CLEANERS. HERBERT W. HOOVER, New Berlin, Ohio, assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio, a Corporation of Ohio. Filed July 26, 1917. Serial No. 182,827. 11 Claims. (Cl. 15—60.)

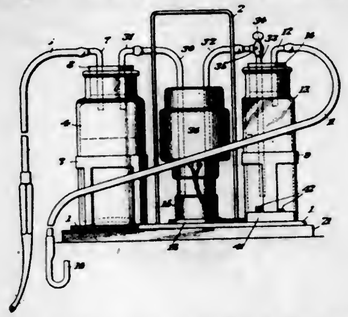


1. The process of protecting the end parts of a rotating device which is mounted in a casing through which dust laden air passes, from the accumulation of matter carried by the air between the end of such rotating part and the adjacent wall portion of the casing, which consists in directing a protecting current of air through the space between the end of the rotating part and the adjacent wall of the casing in opposition to the current of dust laden air, to deflect the same away from such space.

1,349,766. BLOOD-REMOVING AND ETHERIZING APPARATUS. ALMA C. HUNT, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,072. 4 Claims. (Cl. 128—278.)

1. An apparatus of the class described comprising a receiving container, a suction tip connected thereto, an ether container, an etherizing tip connected thereto, a rotary air pump provided with a vertical shaft and a horizontally moving rotor, a pipe connecting the air

pump intake to the receiving container, a pipe connecting the air pump outlet to the ether container, an electric motor supported directly upon the upper end of the air



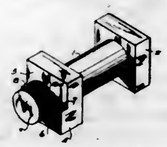
pump and provided with a vertical motor shaft, and means for slidably connecting together the lower end of the motor shaft and the upper end of the air pump shaft.

1,349,767. RUBBER-DAM-CLAMP FORCEPS. JAMES W. IVORY, Philadelphia, Pa. Filed Sept. 23, 1919. Serial No. 325,683. 5 Claims. (Cl. 32—20.)



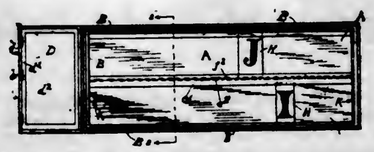
1. A forceps for a rubber dam clamp having on the outer terminals of the jaws a plurality of beaks extending angularly therefrom, the central beak being adapted to enter an opening in the clamp and the other beaks adapted to contact with the adjacent portions of said clamp to steady the latter and limit the degree of penetration of said central beak.

1,349,768. NUT-LOCK. GUSTAF JOHNSON and EIGNAR NELSON, Seattle, Wash. Filed Apr. 16, 1920. Serial No. 374,336. 1 Claim. (Cl. 151—25.)



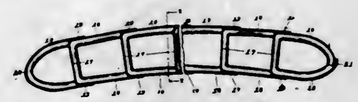
In a nut lock, a bolt, a nut having one of its faces formed with a raised and a depressed portion, said portions being separated by a straight and a beveled shoulder, and a spring stop having one pointed end and one non-pointed end and adapted to partially encircle said bolt and for engagement terminally with either of the said shoulders and with the bolt threads.

1,349,769. CHANGEABLE SIGN. HERMAN KAHN, Chicago, Ill. Filed May 12, 1919. Serial No. 296,377. 2 Claims. (Cl. 40—140.)



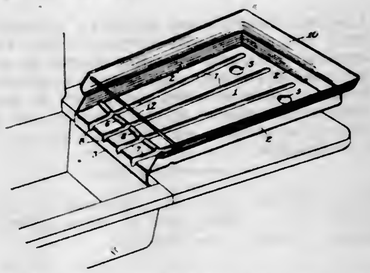
1. A grouping frame comprising, in combination, a U-shaped longitudinally extending member, a plurality of additional longitudinally extending members, and means to hold said plurality of members parallel to each other and parallel to and in spaced relation to said U-shaped member, whereby bases provided with characters thereon may be inserted between said plurality of members and moved transversely thereto and toward said U-shaped member, to seat said character base in said U-shaped member.

1,349,770. WING CONSTRUCTION FOR FLYING-MACHINES. THOMAS J. KEHOE, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 22, 1917. Serial No. 203,320. 17 Claims. (Cl. 244—31.)



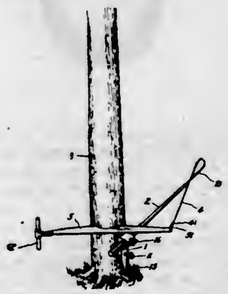
1. A flying machine provided with wings of sheet metal construction formed of a plurality of channel-shaped members telescoped with reference to each other and secured together, providing passages extending longitudinally of the wing structure within the same.

1,349,771. DISH-DRAINER. ROBERT KLINE, Cleveland, Ohio. Filed Nov. 29, 1918. Serial No. 264,665. 1 Claim. (Cl. 141—9.)



A dish drainer comprising a straight edged tray, one of the edges being turned downwardly to constitute a discharge side and the remaining edges being turned upwardly to form dish-receiving walls, the margin of said first side being bent around substantially parallel with the bottom of the tray so as to form a hook adapted to embrace the end of the sinkboard.

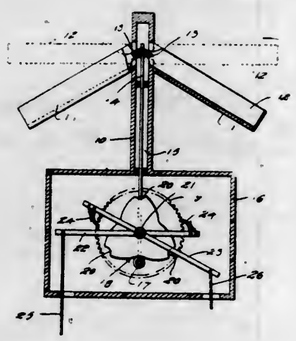
1,349,772. TREE-SAWING MACHINE. GIKICHI KUSUTANI, Seattle, Wash. Filed Aug. 19, 1919. Serial No. 318,514. 3 Claims. (Cl. 143—62.)



1. A tree-sawing machine comprising a boom, means for securing said boom to a tree trunk to project laterally

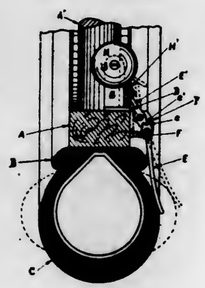
therefrom, a saw, a flexible whiparm secured in the outer end of said boom, and a link connecting the free end of said whiparm to an end of the saw to permit relative movement of the saw transversely of the boom.

1,349,773. RAILWAY-SIGNAL. ROBERT S. LA MERE, Dresser Junction, Wis. Filed Dec. 29, 1919. Serial No. 347,907. 4 Claims. (Cl. 246—294.)



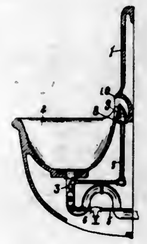
4. A railway crossing signal including a vertically movable signal arm, a signal post carrying the arm, a signal rod connected to the arm, a rotating member for controlling movement of said rod by its rotation continuously in one direction, a pair of levers having dogs for engaging and rotating said member in one direction, and a pair of actuating mechanisms, each connected to one of said levers, as described.

1,349,774. SIGNAL DEVICE. THEODORE G. LEMPGES, Dunkirk, N. Y. Filed Oct. 11, 1919. Serial No. 330,015. 1 Claim. (Cl. 116—34.)



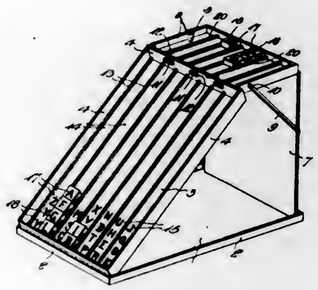
In a device of the class described, a vehicle wheel having a pneumatic tire thereon, an angle-iron secured on the felly of said wheel, a bracket-arm on said angle-iron radially positioned between spokes of said wheel, a signal device including an operating lever, supported on said bracket-arm, an out turned ear on said angle iron, a pair of levers pivoted on said ear, one of which levers engages the operating lever of said signal device, and the other of said levers engages the side of said tire, and intermeshing teeth on said levers, whereby the movement of the tire actuated lever is imparted to the other lever, substantially as set forth.

1,349,775. DRINKING-FOUNTAIN. FRANK T. LYMAN and FRANK J. KLIMM, San Francisco, Calif. Filed Sept. 4, 1917. Serial No. 189,513. 2 Claims. (Cl. 299—12.)



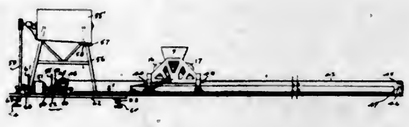
1. A drinking fountain comprising a bowl and a nozzle for throwing an inclined stream over the bowl, the nozzle having a horizontally elongated mouth.

1,349,776. EDUCATIONAL TOY. ALEXANDER L. MACKINTOSH, Denver, Colo., assignor of one-half to David R. Riddick, Rawlins, Wyo. Filed Nov. 25, 1918. Serial No. 264,051. 5 Claims. (Cl. 35—1.)



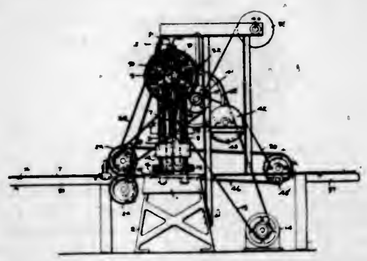
1. An educational toy comprising a chute having educational characters on its bottom, and a plurality of blocks adapted to be slid along said chute, said blocks displaying characters corresponding to those aforesaid.

1,349,777. MACHINE FOR FABRICATING PLASTER-BOARD. JOHN F. MAKOWSKI, San Francisco, Calif., assignor of one-half to James A. Levensaler, San Francisco, Calif Filed Feb. 6, 1918. Serial No. 215,627. 9 Claims. (Cl. 154—1.)



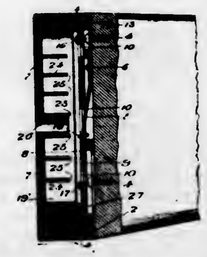
1. A plaster board machine including a stationary bed; a carriage adapted to travel over said bed; a plaster hopper on said carriage having an outlet and means for feeding sheets of paper on opposite sides of said hopper, and depositing said sheets on said bed as said carriage moves thereover.

1,349,778. WALL-BOARD AND PROCESS OF MANUFACTURING THE SAME. JOHN F. MAKOWSKI, San Francisco, Calif, assignor of one-half to James A. Levensaler, San Francisco, Calif. Filed Sept. 7, 1917, Serial No. 190,131. Renewed Dec. 29, 1919. Serial No. 348,044. 7 Claims. (Cl. 154—2.)



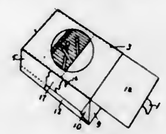
1. A process of manufacturing wall board comprising flowing a core of plastic material between reinforcing sheets of paper, allowing the same to stand until dry, and then punching holes through the completed board.

1,349,779. RECOIL-PAD FOR FIREARMS. WEBSTER L. MARBLE, Gladstone, Mich. Filed Nov. 4, 1919. Serial No. 335,590. 9 Claims. (Cl. 42—74.)



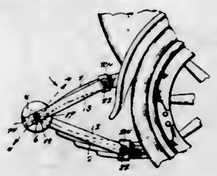
5. A recoil paid for fire arms comprising a hollow pad proper which has internal ribs, bars or partitions, and an attaching plate secured to the pad proper, said ribs, bars or partitions having their free edges normally separated, or spaced from the attaching plate and adapted to bear against the said plate.

1,349,780. CARDBOARD BOX. MIGUEL MONTANÉ MARTOS, Mexico, Mexico. Filed May 13, 1919. Serial No. 296,841. 6 Claims. (Cl. 206—48.)



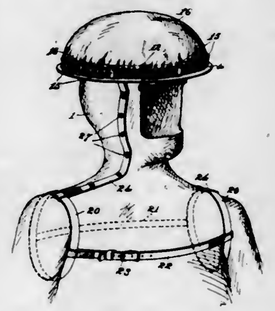
6. A box formed of sheet material and comprising connected top, bottom, side and end pieces, the end pieces being permanently closed and the top piece being provided with an aperture for the removal of the contents of the box; a sliding lid to cover and uncover the aperture; and a false bottom within the box upon which the said contents rest, the false bottom having supporting flaps at its side edges which rest upon the bottom piece to elevate it thereabove and thereby provide a separate compartment to receive articles of a different character from those contained in the body of the box and also having an upturned flap at one end adapted to be secured to the adjacent end piece of the box, said end piece having a delivery opening formed in it to provide communication with said compartment.

1,349,781. SHOCK-ABSORBER FOR AUTOMOBILES AND OTHER VEHICLES. JULIUS B. MOORE, Durango, Colo. Filed Sept. 24, 1919. Serial No. 326,089. 1 Claim. (Cl. 267—9.)



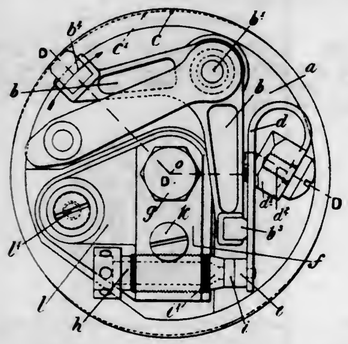
The combination with a bowed vehicle spring and a chassis or frame one end of which is connected to one end of the spring, of a shock absorber disposed coaxially with the connection between the ends of the spring and the chassis, said shock absorber comprising a pair of concentrically arranged opposed members, arms secured to the outer faces of the members and arranged at an acute angle, said arms being in turn pivotally mounted on the chassis and the spring, the inner face of one of said members being of concavely V-shaped formation, the meeting crotch of the concavely V-shaped face extending across the diameter of the member, thereby providing broad sloping solid cam faces of semi-circular outline, the inner face of the adjacent member being convexly V-shaped, the apex thereof extending across the diameter of the member, thereby providing broad sloping solid cam faces of semi-circular outline, whereby the apex may enter the crotch, and also whereby the broad solid camming surface may coöperate for absorbing the shock, and means passing concentrically through said members and including relatively strong compression means for urging pressure on the outer faces of the members, to hold them in frictional contact, whereby as the arms move with the chassis and the spring, the broad solid camming faces will act together with the compression means to absorb the shocks.

1,349,782. SAFETY DEVICE FOR AVIATORS. JOSEPH R. NAVARRE, Lakeside, Wash. Filed Feb. 21, 1919. Serial No. 278,542. 7 Claims. (Cl. 244—21.)



1. A safety device for aviators comprising a helmet, a parachute, a coiled spring in the periphery thereof, said spring having an aperture adjacent one end thereof, an eye on said spring adapted to extend through said aperture to hold the spring in coiled position, a releasing pin extending through said eye, substantially as described.

1,349,783. ELECTRIC CONTACT-BREAKER. FREDERICK HENRY ROYCE, Derby, England, assignor to Rolls-Royce Limited, Derby, England. Filed May 6, 1918. Serial No. 232,822. 1 Claim. (Cl. 200—30.)



A contact breaker for the magnetos of internal combustion engines, comprising in combination a stationary cam having a very slight eccentricity and a long and very gradual approach, the ratio of approach to eccentricity being relatively high; a frame rotatable within the cam; a double-armed rocking lever carried by said frame and actuated by said cam to receive a harmonious and smooth motion, one arm of said lever being maintained in constant contact with said cam by centrifugal force alone; a spring mounted on the frame independently of the cam and rocking lever; and a movable contact carried by the spring, the second arm of the rocking lever freely contacting with said spring so that on rotation of the frame in relation to the cam, the spring is alternately put in tension by the rocking lever to cause the movable contact to break circuit and released to remake said circuit under the action of the spring; the aforesaid disposition of the elements permitting forces of inertia in the contact mechanism to be reduced to a minimum and readily overcome, while allowing high rotational speed of the frame.

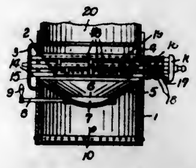
1,349,784. CONCRETE COOKER. FLETCHER A. SAUNDERS, San Pedro, Calif. Filed Jan. 7, 1918. Serial No. 210,634. 4 Claims. (Cl. 126—369.)



1. In a cooker for fish and like articles of food, a chamber having interiorly exposed concrete walls, means to introduce live steam into the chamber and in contact with the exposed concrete walls thereof, and means to support articles of food to be cooked therein exposed to the radiant heat of the walls and to the direct action of and contact with the steam.

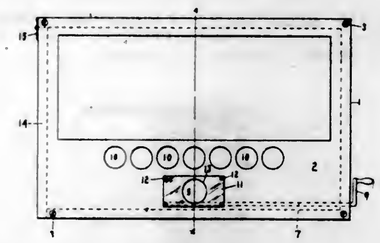
1,349,785. GARBAGE-INCINERATOR. WILLIAM SAVAGE, Three-Rivers, Quebec, Canada. Filed Apr. 25, 1919, Serial No. 292,679. Renewed July 2, 1920. Serial No. 393,566. 3 Claims. (Cl. 110—18.)

1. An incinerator comprising a casing containing an incinerating chamber and an ash pit therebeneath; a hopper within the casing between said chamber and pit, adapted to receive and support the material to be incinerated and to discharge the ashes into the pit; a movable closure for the discharge end of the hopper having operating means projecting exteriorly of the casing, a plurality of looped burner pipes arranged one above another in said chamber immediately above said hopper to act directly on



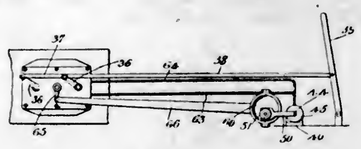
the material therein, the loop of each succeeding pipe being slightly larger than that of the next lower pipe; a gas header to which all of the burner pipes are connected exteriorly of the casing; and an obliquely-arranged annular protector mounted immediately over each of said pipes.

1,349,786. DISPLAY-STAND AND COIN-HOLDER. ADOLPH SCHLUETER, Oakland, Calif. Filed June 20, 1918. Serial No. 241,032. 2 Claims. (Cl. 133—11.)



1. In a device of the character described, a casing having an opening forming a money depository pocket therein communicating with the exterior of the casing, means below said opening for closing the same and controlling the passage of articles from the pocket to the interior of the casing, a guard member covering the pocket and having an opening therein, said opening in the guard permitting recovery of money from the pocket when desired, and means whereby said controlling means may be operated.

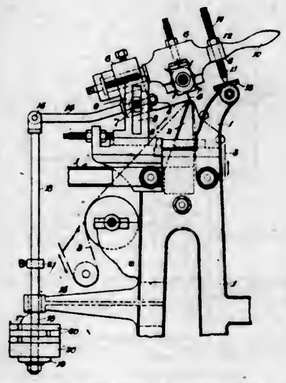
1,349,787. INTERCHANGEABLE STEAM CHEST AND VALVE. CHRISTIAN H. SCHLUNDT, Indianapolis, Ind. Filed Mar. 5, 1918. Serial No. 220,473. 2 Claims. (Cl. 121—150.)



1. A valve gear comprising a frame, a rod slidably mounted therein, a cylinder mounted thereon, a piston mounted on the rod and slidably received in the cylinder, means for admitting fluid pressure to the cylinder at the opposite sides of the piston, an arm carried by the rod, a second rod journaled on the frame, a collar carried by the second mentioned rod and engaged at the arm, a second collar slidably mounted on the last mentioned rod and constrained to rotate in unison with the same and connected with the first mentioned collar, a hub receiving the second

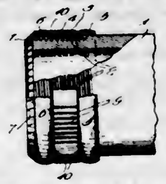
mentioned collar, cam slot and groove connections between the hub and second mentioned collar, an eccentric mounted on the hub and a rod operatively connecting the eccentric with the valve.

1,349,788. CLOTH CUTTING OR SHEARING MACHINE. ARTHUR EDWIN SELLERS, Huddersfield, England. Filed Dec. 22, 1919. Serial No. 346,552. 1 Claim. (Cl. 26—6.)



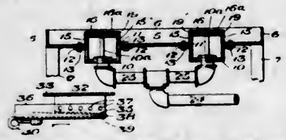
In a cloth cutting machine, a frame, a support for the cloth, a stock pivoted to the frame and provided with a cutting device, an arm projecting from the stock, a guide bracket secured to the frame, a rod pivoted to the said arm and slidable vertically in the guide bracket, a counterbalance weight for the stock carried by the said rod, and a stop collar secured on the rod above the guide bracket and limiting its downward movement by contact with the guide bracket.

1,349,789. SCREW-THREAD PROTECTOR. JULIUS SCHIRRA, Pittsburgh, Pa., assignor to Brown Specialties Company, Pittsburgh, Pa. Filed Oct. 10, 1919. Serial No. 329,707. 2 Claims. (Cl. 137—91.)



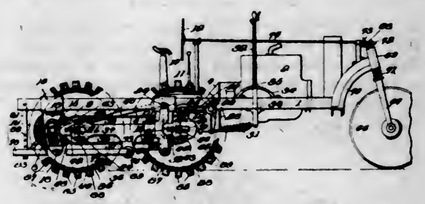
1. In a screw-thread protector, a nonmetallic sleeve having open ends and having spaced annular beads thereabout, and a metal band embracing the part of the sleeve between said heads and having sharp edges to engage with said beads for preventing accidental removal of the metal band from the space between the beads.

1,349,790. FUEL-BURNER. JAMES R. SMITH, Mechanicsville, N. Y. Filed Feb. 18, 1918. Serial No. 217,949. 3 Claims. (Cl. 110—74.)



1. A fuel burner embodying the combination of a sealed fuel support, and an air blast feeder having means for discharging the air from points above the fuel support in a general downward direction into the fuel and onto the fuel support to cause rebounding of the air upwardly through the fuel.

1,349,791. TRACTOR-TRUCK. WILLIAM STRAIT, Appleton, Wis., assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed June 6, 1917. Serial No. 173,167. 19 Claims. (Cl. 180—21.)



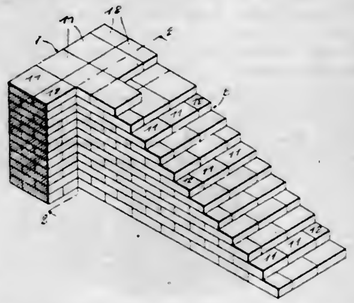
1. In a machine of the class described, the combination of a main frame, an arm flexibly connected near one of its ends to the main frame, a cushioning device interposed between the main frame and arm near said connection, cushioning means interposed between the main frame and said arm near the other end of the latter, and ground engaging wheels carried by said arm substantially in line with each other.

1,349,792. CONDENSER. RALPH W. STEARNS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 24, 1916. Serial No. 127,480. 15 Claims. (Cl. 250—41.)



5. A condenser having a high internal ohmic resistance to high frequency alternating currents.

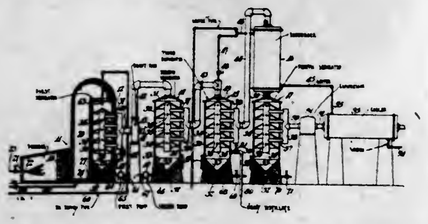
1,349,793. WALL CONSTRUCTION. KERKOR TOROSIAN, Manchester, N. H. Filed June 12, 1919. Serial No. 303,566. 3 Claims. (Cl. 72—37.)



1. A brick wall in which every course forms a tie course, each course being formed of relatively small

oblong bricks and relatively large square bricks, the oblong bricks extending longitudinally of the wall and the oblong bricks of one course being positioned between the square bricks of courses above and below the said course.

1,349,794. APPARATUS FOR TREATING HYDROCARBON OILS. MILON J. TRUMBLE, Alhambra, Calif., assignor to Shell Company, California, a Corporation of California. Filed July 19, 1916. Serial No. 110,080. 4 Claims. (Cl. 196—25.)



4. An apparatus for treating hydrocarbon oils comprising a furnace, means in said furnace for producing hot gases, a separator having an opening in the top thereof, a flue for conducting the hot gases formed in the furnace to said opening, and an inlet pipe so arranged as to spray the oil to be treated through said opening in the direction of the hot gases.

1,349,795. COMBINED SALT AND PEPPER SHAKER. OTTO M. VOGEL, Taber, Alberta, Canada. Filed Jan. 6, 1920. Serial No. 349,669. 4 Claims. (Cl. 65—45.)



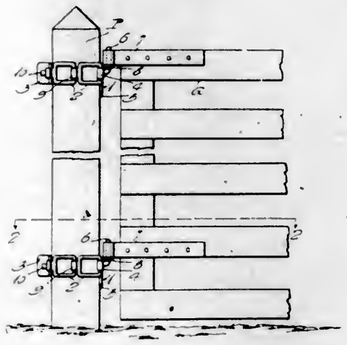
1. A condiment holder including a body having a central partition arranged therein dividing the same into a pair of compartments, a detachable cap carried by the body, a partition carried by the cap and arranged to detachably engage the partition carried by the body, the cap having appositely inclined walls arranged on the opposite sides of the partition, said walls having a plurality of openings formed therein, and baffle plates arranged adjacent to the walls.

1,349,796. VULCANIZING-MOLD FOR BOOTS AND SHOES. DIRK FRANS WILHELMI, Doorwerth, Netherlands. Filed Feb. 14, 1920. Serial No. 358,614. 4 Claims. (Cl. 18—38.)



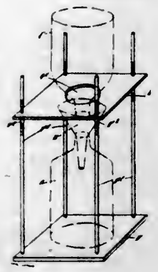
1. Vulcanizing-mold for the manufacturing of boots or shoes, comprising a last, having at its point and heel, parts which can be moved in and out, circumference mold-sections, a sole-mold section which can be placed under pressure and means for moving the parts at point and heel of the last in and out.

1,349,797. GATE-HINGE. CHESTER L. WILLIAMS, Chapin, Ill. Filed Nov. 24, 1919. Serial No. 340,087. 1 Claim. (Cl. 16—49.)



A gate hinge comprising a flat metal hinge carrying plate having its opposite ends reduced in width and bent to form relatively wide hooks and being provided at the center of its bottom edge with a depending tongue to bear against the post and prevent possible sagging of the gate, a pair of rectangular open links made of malleable iron and having one of their ends disposed in said hooks, each link being provided at its opposite end with a hook of the same width as the first named hooks, additional rectangular open links attached to the second named hooks, these links being likewise provided at their opposite ends with like hooks, a pair of L-shaped connecting plates, each having a slot at one end for reception of one of the last named hooks and being apertured at their opposite ends, and a bolt passing through said apertures to retain the connecting plates together.

1,349,798. FILTRATION AND/OR PERCOLATION OF LIQUIDS. CYRIL YEOMAN, Herne Hill, England. Filed Oct. 2, 1916. Serial No. 123,268. 2 Claims. (Cl. 210—156.)



1. In an apparatus for the purpose described, the combination of a filter, a receptable for filtered liquid, a container for liquid to be filtered having a neck portion extending into the filter, whereby its outlet will be immersed in the liquid therein, a valve for controlling flow of liquid to the filter adapted to normally float in the liquid in said container, and means for moving the valve to close the outlet from the container.

2. In combination, a filtering device comprising a funnel provided with a filtering medium, a vessel for receiving the filtered fluid from said funnel, a container for the unfiltered fluid, provided with a neck at one end, said container being inverted and supported with its neck portion projecting directly into said funnel, a valve within said container, and a string connected to said valve and threaded through the neck portion of the container and over the edge of said funnel to permit said valve to be drawn into operative position to close off the flow of unfiltered fluid from said container.

1,349,799. COLLAPSIBLE BURIAL-CASKET. ALBERT W. ALBRECHT, St. Louis, Mo. Filed July 26, 1918. Serial No. 246,825. 1 Claim. (Cl. 220—7.)



A collapsible burial casket, composed of sheet metal comprising a bottom wall; an upwardly extending end wall portion integral with each end of the bottom wall; a side wall pivoted to one side edge of the bottom wall and being foldable inwardly upon the bottom wall between said end wall portions; an additional side wall composed of a lower part pivotally united to the opposite side edge of the bottom wall and an upper part pivoted to the lower part and arranged to fold upon the lower part between said end wall portions to position the upper edge of the upper part above the edge of the bottom wall to which the lower part of said side wall is pivoted; a top wall of equal width with the bottom wall pivoted to the upper edge of said upper part of said side wall and arranged to fold inwardly between said end wall portions and with its edges vertically above the edges of the bottom wall; end wall upper portions hinged to the upper edges of the end wall lower portions and being foldable inwardly upon the top wall after the top wall has been placed as aforesaid; means for interlocking the vertical edges of the upper end wall portions with the side walls to hold all of said walls in vertical position; said means comprising inwardly extended tongues on the vertical edges of the end walls arranged to spring into lateral extensions on the side walls and curved resilient flanges on the edges of the top wall arranged to interlock with flanges on the side and end walls.

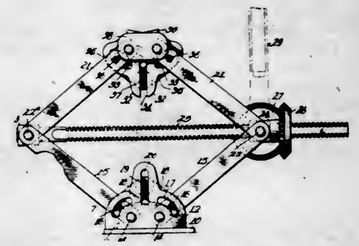
1,349,800. CONSTRUCTION OF SHIPS. WILLIAM ALDERSON, Kimberley, South Africa. Filed Sept. 4, 1918. Serial No. 252,643. 2 Claims. (Cl. 114—68.)



1. The improved construction of double-skinned vessels exposed to collision, mines or torpedoes, characterized by having between the outer and the inner skin of the vessel a plurality of water-tight divisions, each division passing vertically downward from above the water-line on one side of the vessel to above the water-line on the other side of the vessel, and forming a plurality of water-tight chambers each continuous around the inner skin of the vessel.

1,349,801. JACK. ALFRED O. ALSTEN, Worcester, Mass., assignor of one-third to Frank A. Sanderson and one-third to Alvin L. Johnson, Worcester, Mass. Filed Jan. 2, 1917. Serial No. 140,023. 9 Claims. (Cl. 254—126.)

1. In a jack of the lazy tongs type, the combination with four links constituting the lazy tongs, of a screw connecting the opposite pivot points thereof, said screw being non-circular in cross section, and a block to which two of the links of the lazy tongs are pivotally connected,

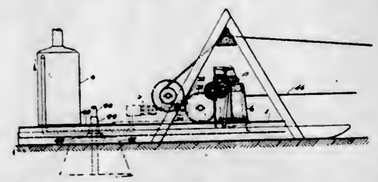


said block having a passage therethrough of non-circular shape for preventing the turning of the parts on the axis of the screw.

1,349,802. PROCESS OF MANUFACTURE OF PICRIC ACID. LOUIS G. BADIER and LIONEL B. HOLLIDAY, Huddersfield, England, assignors to L. B. Holliday & Co. Limited, Huddersfield, England, a Corporation of Great Britain. Filed Dec. 30, 1919. Serial No. 348,466. 1 Claim. (Cl. 23—24.)

A method of manufacturing picric acid, which consists in first treating dinitrophenol with about two and one-half times its weight of concentrated sulfuric acid, and then adding to the mixture nitric and sulfuric acids in about equal proportions and with the nitric acid from three to seven per cent. in excess of the quantity required by theory to effect complete nitration, the temperature of the mixed liquids being maintained at from twenty to thirty degrees centigrade while the nitration is being effected.

1,349,803. STUMP-PULLING MACHINE. HARRY E. BARBER, Green Cove Springs, Fla., assignor, by mesne assignments, to The American Clearing Company, Hamilton, Ohio, a Corporation of Delaware. Filed Aug. 22, 1919. Serial No. 319,133. 17 Claims. (Cl. 254—185.)



1. In a mechanism of the character described, an anchor to be sunk in the ground, a base pivotally connected with said anchor, a stump pulling device carried by said base, and means for connecting said device with a stump to be pulled.

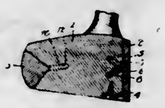
1,349,804. ELECTRIC FIRE. HERBERT HENRY BERRY and JAMES WATT REID, London, England. Filed Dec. 30, 1919. Serial No. 348,368. 1 Claim. (Cl. 240—2.)



In an electric imitation fire, a basket to contain electric lamps, a movable top for the basket, imitation fuel on

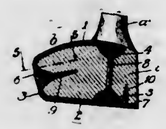
said top, and fans arranged under the top and connected thereto for rotation, said fans being carried wholly by and removable with said top.

1,349,805. GOLF-CLUB. CHARLES W. BOOTH, Chicago, Ill. Filed Mar. 27, 1919. Serial No. 285,593. 6 Claims. (Cl. 46—4.)



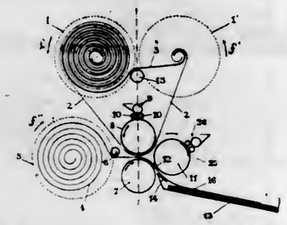
1. A golf club comprising a club head, a metal attachment thereto, and means for securing said metal attachment to said club head, said securing means consisting of projections on said attachment which interlock with holes formed in said club head, said projections being initially out of line with the holes which they engage, respectively, substantially as described.

1,349,806. GOLF-CLUB. CHARLES W. BOOTH, Chicago, Ill. Filed May 24, 1919. Serial No. 299,516. 9 Claims. (Cl. 46—4.)



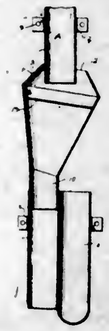
1. A golf club comprising a head or body portion and a strap or band secured thereto comprising sections which extend over the top and sole of the club and around the back thereof, and weight enlargements formed on the top and sole sections of said strap substantially in line with the shaft of the club, substantially as described.

1,349,807. MACHINE FOR PRINTING OR REPRODUCING ADDRESSES AND OTHER TYPED OR WRITTEN MATTER. ALFRED DE BRAYER, Paris, France. Filed May 30, 1917. Serial No. 171,804. 2 Claims. (Cl. 101—50.)



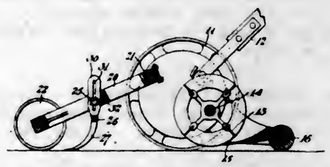
1. In a machine for printing addresses and the like, the combination of a record band having the matter to be reproduced inscribed thereon; a drum on which the band is initially wound and from which it is unwound; a drum on which the band is wound as it unwinds from the first drum; a roller around which said band passes on its way from the first drum to the second; inking means associated with said roller; means for pressing the paper on which the inscribed matter of the record band is to be printed against said band; a cylinder having a printing surface thereon for printing additional matter on the paper while it is passing through the machine, said cylinder adapted to coöperate with said paper-pressing means; and means for inking said printing surface.

1,349,808. REVERSIBLE RAIN-WATER CUT-OFF. THEODORE H. BRISON, Sioux Falls, S. D. Filed Oct. 24, 1919. Serial No. 333,037. 1 Claim. (Cl. 137—9.)



In a rain water cut off as set forth, the combination with a main drain pipe, of a pair of pipe sections spaced below, one acting to drain waste water, the other acting to drain water to be used, the latter having a lateral extension to drain into a cistern, the main drain pipe being arranged axially between the pipe sections, a cut off member, comprising a main funnel shaped body having its lower end terminating in a cylindrical extension arranged at an angle to the body, whereby the extension may have a substantial telescopical fitting engagement in either one of said pipe sections, the upper part of the body terminating in a frusto-conical top portion having an opening of a substantial relatively larger diameter than the main drain pipe, the open end of the frusto-conical top portion having a substantial loose slipping engagement with the lower end of the main drain pipe whereby the body may be raised and lowered a substantially considerable degree, so that the extension may be easily connected and disconnected to and from either one of the pipe sections.

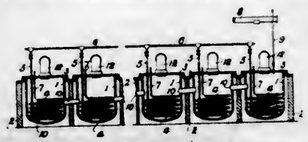
1,349,809. BERMUDA-GRASS CUTTER. MARINUS BRONNUM, South Pasadena, Calif. Filed June 2, 1919. Serial No. 301,339. 2 Claims. (Cl. 56—312.)



1. In combination a pair of lawn mower wheels; a handle by means of which said wheels are driven over the ground; fixed knife; a main frame carrying said fixed knife said wheels being pivoted in said frame; a roller pivoted in said frame in such a position as to support said fixed knife just above a surface on which said wheels and roller rests; a rotary knife driven by said wheels and coöperating with said fixed knife to cut the grass upon which the mower is operated; an auxiliary frame pivoted to said main frame and extending forwardly therefrom; wheels for supporting the forward end of said auxiliary frame; and rake teeth carried by said auxiliary frame.

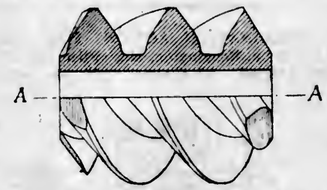
1,349,810. EVAPORATOR. JOHN N. BROOKE, Halifax, England. Filed July 1, 1918. Serial No. 242,883. 1 Claim. (Cl. 257—205.)

An apparatus for concentrating weak picric acid under atmospheric pressure, comprising a series of vessels, pipes extending between the vessels, said pipes being arranged at successively decreasing levels, so that the level of the liquor in each vessel is a little lower than in the vessel preceding it in the series, and means for applying steam



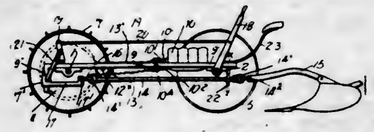
heat to the liquor in the vessels to concentrate it and effect the formation of crystals of picric acid.

1,349,811. WORM-GEARING. PERCY BROWN and FRANCIS JOHN BOSTOCK, Huddersfield, England. Filed Sept. 18, 1919. Serial No. 324,549. 5 Claims. (Cl. 74—41.)



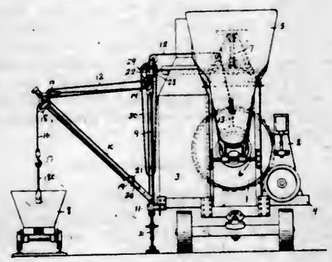
1. A worm having its thread so formed that the sides of said thread, upon a section obtained by a plane containing the axis, are portions of hyperbolas, substantially as herein shown and described and for the purpose set forth.

1,349,812. TRACTOR-VEHICLE. HERBERT JOHNSTON BURKE, Essex, Ontario, Canada. Filed Mar. 27, 1919. Serial No. 285,594. 2 Claims. (Cl. 180—14.)



1. In a tractor vehicle, the combination with the forward axle, of a lever fulcrumed thereon intermediately of its length so as to form a rearwardly extending long arm adapted to be suitably weighted at its free end and a forwardly extending short arm, a depending extension to the end of the short arm, a bar extending rearwardly from the depending extension and slidable thereon, lever operated means for slidably adjusting the bar upon the depending extension, a draw bar connected at one end to the bar and adapted to be connected to the load at the opposite end.

1,349,813. MATERIAL-TRANSFERRING APPARATUS. EDWARD G. CARR, Cleveland, Ohio, assignor to The Lakewood Engineering Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 8, 1918. Serial No. 221,142. 7 Claims. (Cl. 214—17.)



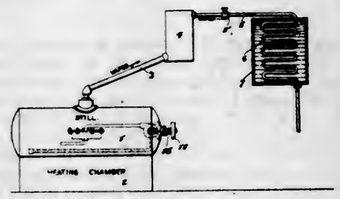
1. In material transferring apparatus, the combination with a hopper of means for lifting the same, a boom and flexible means connecting the hopper and the boom to raise the boom when the hopper falls and to lower the boom when the hopper is lifted.

1,349,814. CROSSTIE. RIMMON J. CARR, Petoskey, Mich. Filed Sept. 29, 1919. Serial No. 327,054. 4 Claims. (Cl. 238—216.)



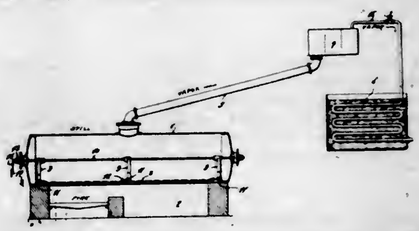
1. In a cross tie, a bar extending longitudinally of the tie, a plate on each end thereof, rails supported upon said plates, means for preventing longitudinal movement of the rails upon the tie, and means carried by said bar for preventing transverse movement of the rails upon the tie.

1,349,815. APPARATUS FOR CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla, assignor to The Process Company, Tulsa, Okla., a Corporation of Maryland. Filed Sept. 27, 1917. Serial No. 193,455. 1 Claim. (Cl. 196—3.)



In an apparatus for cracking petroleum hydrocarbons, a fire-heated cracking still wherein a body of hydrocarbon oil is confined, the bottom of the still being exposed to the fire, means for separating coke-forming matter from said body of oil, said means including an intake conductor arranged within the still and having an inlet near the heated lower portion of the still, a filter communicating with said intake conductor, said filter having an outlet for the discharge of filtered oil to the main body of oil, and a pump whereby oil is circulated through said intake conductor and filter, said pump and filter being arranged within the still, and pump operating means at the exterior of the still.

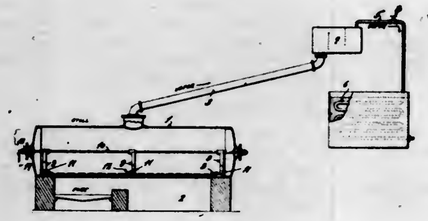
1,349,816. ART OF CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, Tulsa, Okla., a Corporation of Maryland. Filed Sept. 27, 1917. Serial No. 193,470. 1 Claim. (Cl. 196—25.)



In the art of cracking petroleum hydrocarbons, the method which comprises confining a body of hydrocarbon oil in a large horizontal cylindrical fire-heated cracking still, the arcuate bottom of the still being exposed to the fire, maintaining the contents of said still under a pres-

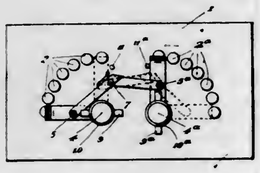
sure greater than three atmospheres, condensing the vapor passing from the still, at the same time continually scraping coke-forming matter across the fire-heated arcuate bottom, from the middle to opposite sides of the still, and permitting such coke-forming matter to accumulate in the still at relatively high elevations beyond the hottest portion of said arcuate bottom.

1,349,817. APPARATUS FOR CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, Tulsa, Okla., a Corporation of Maryland. Filed Sept. 27, 1917. Serial No. 193,471. 2 Claims. (Cl. 196—4.)



2. In an apparatus for cracking petroleum hydrocarbons, a large horizontal cylindrical fire-heated cracking still wherein a body of hydrocarbon oil is confined under pressure, the arcuate bottom of said still being exposed to the fire, a series of scraper chains having their links in scraping contact with said arcuate bottom and extending approximately from one end of the still to the other, an oscillatory shaft arranged longitudinally of said still, arms depending from said shaft and secured to said chains, and operating means whereby said shaft is oscillated to drag said chains back and forth across said arcuate bottom, so as to sweep coke-forming matter from the hottest portion of the still to the relatively cool sides thereof.

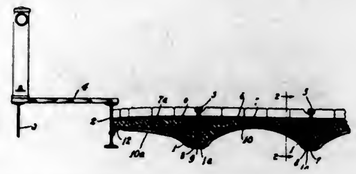
1,349,818. ELECTRICAL REGULATING-SWITCH. CHARLES HAROLD COLES, London, England. Filed Dec. 15, 1919. Serial No. 345,129. 9 Claims. (Cl. 200—5.)



1. In an electrical regulating switch, a pair of switch arms, two series of contacts over which the respective switch arms may be moved, a pair of bars, a pivotal connection between one end of one bar to one switch arm and of the other bar to the other switch arm and a pivotal connection between the free ends of the two bars.

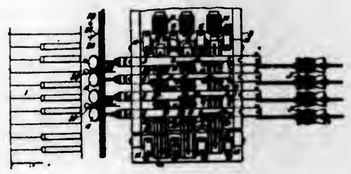
1,349,819. CONCRETE FORM. HARRY O. DAVIDSON, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 13, 1916. Serial No. 130,945. 6 Claims. (Cl. 25—131.5.)

4. An arched sheet metal floor-supporting plate having at at least one edge thereof a substantially flat flange adapted to rest upon the flange of a floor supporting beam and having a corrugation extending thereacross as far as



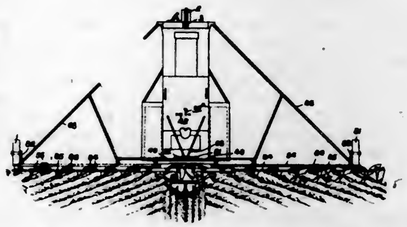
but not including said flange, said corrugation being located adjacent to a lateral edge of said plate.

1,349,820. COMBINATION-ACTION FOR ORGANS. HAROLD T. DEPUE, Kensington, Md. Filed Oct. 31, 1916. Serial No. 128,769. 13 Claims. (Cl. 84—345.)



1. A combination action for electric or electro-pneumatic organs provided with a stop-setter action, groups of associated electric switches and means for moving each group as a whole into and out of operative relation to the stop setter action for the selective actuation of the switches by said stop setter action.

1,349,821. PLOWING-MACHINE. LOUIS ARSÈNE DÉSY, Montreal, Quebec, Canada. Filed July 25, 1919. Serial No. 313,173. 4 Claims. (Cl. 97—66.)

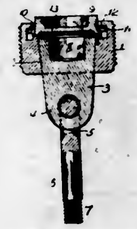


1. In a plowing machine, the combination, with a main frame; of a pair of auxiliary frames disposed at right angles to the main frame with their confronting ends in spaced relation; a connecting bar between said spaced frame ends; an endless series of plows mounted in each auxiliary frame; means for driving said series of plows whereby a plurality of oblique, converging furrows will be made; and a plurality of plows separate from the two endless series of plows suspended from said connecting bar to plow straight furrows in the ground between said endless series of plows.

1,349,822. STAYBOLT STRUCTURE. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed May 3, 1918. Serial No. 232,319. 2 Claims. (Cl. 85—1.5.)

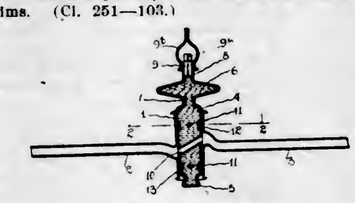
1. In a staybolt structure, the combination with a bearing member provided with a tapering opening, the wall

of which is straight longitudinally of said member, of a tapering head seated on the wall of said tapering open-



ing, a bolt body loosely connected with said head, and a closure having interlocking connection with the bearing member over said tapering head.

1,349,823. STOPCOCK. AUGUST EIMER and WILHELM T. WIEGAND, New York, N. Y., assignors to Stuyvesant Glass Company, New York, N. Y., a Corporation of New York. Filed Sept. 25, 1919. Serial No. 326,304. 5 Claims. (Cl. 251—103.)



1. In a stop-cock device, in combination, an open ended shell element, a hollow closure element to comprise a source of mercury supply, said elements interfitting and having transversely communicable means, including a tubular passage extended through said closure element, one of said elements having annular grooves at both sides of said communicable means, with orifices through which mercury from said supply source may enter said grooves to form a packing seal.

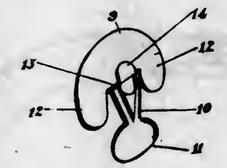
1,349,824. TABULATING MECHANISM. HARRY ARTHUR FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, Harrisburg, Pa., a Corporation of Delaware. Original application filed Dec. 14, 1914. Serial No. 877,219. Divided and this application filed Aug. 22, 1918. Serial No. 250,996. 3 Claims. (Cl. 197—176.)



1. In a tabulating mechanism, the combination with a frame having seats, of a tabulator stop bar having its ends extended into the seats and opposed to the frame to prevent material endwise movement of the bar, one of said seats having an open side to permit the lateral withdrawal of the bar therefrom and a catch retaining the bar against lateral withdrawal from such open sided seat.

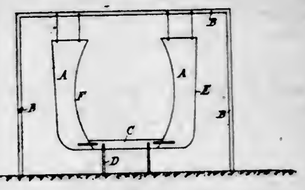
1,349,825. COLLAR-BUTTON. ALPHEUS J. FREEMAN, Chicago, Ill., assignor to Mollie E. Barnhart, Chicago, Ill. Filed Oct. 28, 1919. Serial No. 333,981. 1 Claim. (Cl. 24—101.)

A button comprising a plate having depending wings at its ends and a depending shank intermediate its ends, the wings being on opposite sides of the shank, said shank having a lateral bend at its upper end whereby it is joined to the plate, said bend forming a shoulder and off-setting the shank from the plate, and a tongue integral with the



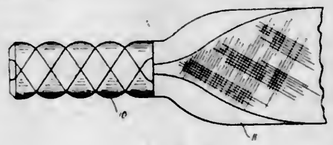
shank and projecting upwardly therefrom at its junction with the bend to a height less than that of the plate, said tongue being located opposite to and facing the center of the plate, and being spaced therefrom.

1,349,826. METHOD OF MOLDING CONCRETE SHIPS. EUGÈNE FREYSSINET, Paris, France, assignor to Societe des Navires en Ciment Armé, Paris, France. Filed June 12, 1918. Serial No. 239,587. 2 Claims. (Cl. 25—130.)



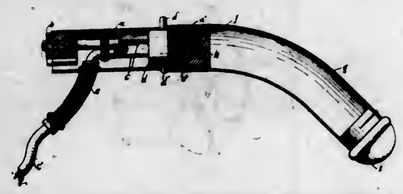
1. A process for manufacturing reinforced concrete boats, consisting in constructing beams having reinforcing rods with projecting ends, suspending said beams from a framework in such manner that said frames may be capable of conforming movements, attaching to the outer sides of said beams continuous reinforcements going from one end to the other of the boat in the longitudinal direction, then on the interior sides of said beams applying similar reinforcements, bending in the ends of the rods projecting from the beams upon the reinforcements of the exterior and interior walls, attaching upon the reinforcements of said interior and exterior walls, exteriorly and interiorly, a form or mold taking the form of the said reinforcements, simultaneously pouring cement in the several molds or forms, and removing the molds or forms.

1,349,827. LACING-TIP. EUGENE FULLER, Providence, R. I. Filed Oct. 20, 1919. Serial No. 331,972. 1 Claim. (Cl. 24—143.)



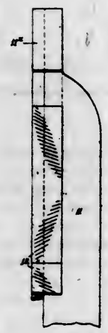
A lacing tip having a body of sheet material applied to the compressed fabric of the lacing in tubular form, said body being provided with opposite diagonally-disposed intersecting angular grooves in its outer surface forming correspondingly inwardly-extending ribs providing diamond-shaped recesses between said intersecting grooves in which recesses the lacing fabric is retained.

1,349,828. HANDLE MEMBER. PHILIP A. GEIER and FRANK E. ROBERTSON, Cleveland, Ohio, assignors to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 25, 1916. Serial No. 86,589. 2 Claims. (Cl. 15—60.)



1. A composite handle member, comprising a length of fiber tubing, a wooden core snugly engaging said tubing interiorly substantially throughout its length, a block fitted within the upper end of said tubing, a terminal handle telescoping over said tubing and block, and means for uniting the tubing and handle, subatantially as set forth.

1,349,829. PATTERN FOR MAKING MOLDS IN WHICH METALS ARE CAST. WILLIAM GIBSON, Liverpool, England. Filed Mar. 19, 1920. Serial No. 367,219. 3 Claims. (Cl. 22—158.)



1. A pattern for making the molds in which fire bars or the like are cast, comprising a straight web having a head at each end projecting upward from the top of the web this part forming one of the units or elements of the pattern, and a plurality of interchangeable sections or lengths each having a straight groove at the underside adapted to embrace the top portion of the depending web and a continuous straight groove on the upper face.

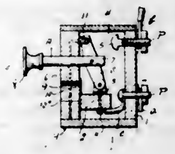
1,349,830. BOTTLE-CLOSURE. HYMAN GOLDSTEIN, Brooklyn, N. Y. Filed Mar. 14, 1919. Serial No. 282,709. 1 Claim. (Cl. 215—60.)

In combination with a bottle, a closure in the form of a truncated cone having a broad base flange to rest on a bottle neck and having its upper end extended to form a cylindrical portion, means for securing the closure to the bottle, said closure having a circular recess in each end and a curved passage extending from the base recess, and smaller in diameter to form a valve seat, a rod slidable in the closure, a disk formed on the rod to fit the base recess and having notches of a depth less than the width of the valve seat, a washer having corresponding notches resting on the disk, a semispherical cap member, a peripheral flange and a center bar formed thereon said rod extending into the bar and the flange fitting the cylindrical portion of the closure and a spring in the upper



recess and surrounding the rod to seat the disk, movement of the cap and disk being limited to prevent complete withdrawal of the disk from the recess.

1,349,831. TESTING APPARATUS. WALTER WESLIE GRAMER, Marinette, Wis. Filed Mar. 8, 1919. Serial No. 281,567. 3 Claims. (Cl. 175—183.)



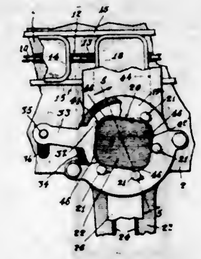
1. A spark testing apparatus including a housing provided with an opening in one of its walls, a pair of spaced terminals extending within said opening and forming a spark gap, one of said terminals being grounded and the second of said terminals extending within the housing to provide contact, a pair of contacts carried by the second wall of the housing, adapted to be interposed in a line leading from a coil to a plug, a movable contact member supported within the housing and in electrical connection with one of the last named contacts, said movable contact, when in one position, engaging the second of the last named contacts, and when in a second position contacting with the first named contact, and a member engaged with the movable contact and extending exteriorly of the housing for imparting movement to the movable contact member.

1,349,832. DENTAL HANDPIECE. ROBERT E. GRAVES, Houston, Tex. Filed June 21, 1919. Serial No. 305,829. 4 Claims. (Cl. 279—42.)



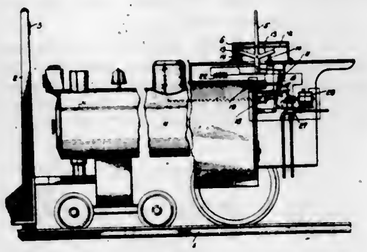
1. A dental hand piece including a casing, a sleeve fitted therein, and a rotatable shaft within the sleeve, one end of said shaft being formed into an expansible chuck, a nut threaded over said chuck, and an engaging member carried by said sleeve and arranged to be brought into engagement with the nut, whereby said nut may be turned and screwed upon, or unscrewed from said chuck by the rotation of said sleeve.

1,349,833. CAN-END-FEED MECHANISM. JAMES A. GRAY, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Sept. 8, 1916. Serial No. 119,063. 20 Claims. (Cl. 113—114.)



1. In a feed mechanism for non-circular can ends, the combination of a holder adapted to contain a stack of can ends and having means for holding the can ends from turning in their own planes, an oscillating member adapted to be turned in a plane parallel with the can ends to a first can end receiving position and then to a second stack-supporting position and having means of non-circular arrangement which in said first position permit the passage of a can end and which in said second position support the stack excepting the lowermost can end, means for oscillating said member alternately to said positions, and a plate below said oscillating member having means which support the stack in said first position of the oscillating member and which permit the passage of the received and turned can end in said second position.

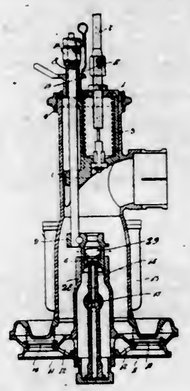
1,349,834. RAILWAY SAFETY APPLIANCE. MICHAEL IHNAT, Detroit, Mich. Filed Dec. 31, 1917. Serial No. 209,788. 4 Claims. (Cl. 246—187.)



2. In an automatically acting train stopping device, a primary circuit closing device, a solenoid in said circuit, a lever operated thereby, a motor and motor circuit, a switch in said motor circuit closed by said lever, a valve, a lever for manually operating said valve and a member operated by said motor for actuating said lever.

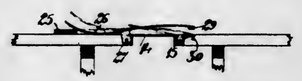
1,349,835. CARBURETER. JOHN THOMAS JENNINGS, Birmingham, England. Filed Oct. 24, 1916. Serial No. 127,446. 3 Claims. (Cl. 261—44.)

1. In a carbureter, the combination of a body member, means for giving a practically constant mixture at varying powers by the automatic variation of the area of the air inlet, a jet, a movable controlling member associated with said jet and adapted to control the passage of fuel therethrough, a throttle valve, an operating member for said throttle valve, and means for associating the movement of the throttle valve with the movement of the said movable controlling member, whereby during the first portion of the opening of the throttle valve the fuel supply control remains approximately stationary, but during the latter portion of the throttle opening the fuel supply control is adjusted to increase the fuel supply, so



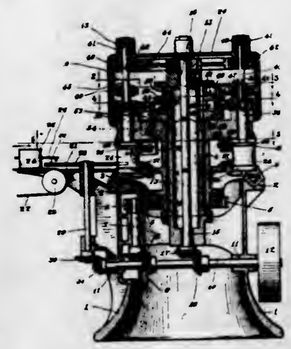
giving two distinct mixtures, a weak mixture succeeding a closure of the throttle and a strong mixture succeeding a full opening of the throttle, quite independent of the running of the engine.

1,349,836. SORTING DEVICE FOR SAWN WOOD. GUSTAF EMANUEL JOHANSON, Sundsvall, Sweden. Filed Nov. 10, 1919. Serial No. 337,103. 9 Claims. (Cl. 83—92.)



1. A sorting device for sawn wood, comprising a runway, collecting compartments located below said runway, and vertically movable sorting means disposed in the runway at the top of each compartment, said means closing the entrance thereto in one position and opening the same in another position and adapted to control the entrance of the wood into the compartment.

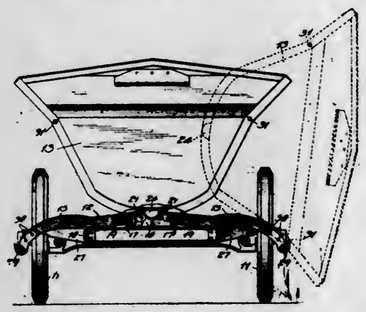
1,349,837. DOUBLE SEAMER. AXEL JOHNSON, Oakland, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Mar. 24, 1917. Serial No. 157,258. 10 Claims. (Cl. 113—23.)



1. In an apparatus for the described purpose, the combination of a rotating member provided with a plurality

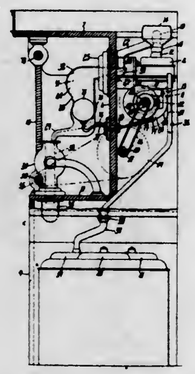
of can seats, means for successively delivering cans with loosely applied covers to said seats, devices associated with each seat for clamping the said can and cover together, a seaming roll located adjacent each of said can seats, each of said rolls being provided with a plurality of seaming grooves, and means for successively bringing the grooves of each roll and a can into operative relation whereby the can and end are united by a double seam.

1,349,838. RAIL CONSTRUCTION FOR ROLLING HOPPERS. ALBERT PRESTON LEE, Chicago, Ill., assignor to Lee Loader & Body Company, Chicago, Ill. Filed Apr. 12, 1919. Serial No. 289,491. 9 Claims. (Cl. 298—10.)



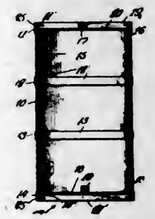
1. In a structure of the character described the combination with a rail comprising a central casing and inclined side portions formed separately from and secured to the casing, of a hopper adapted to roll on said rail substantially automatically from a central charge carrying to a limiting dumping position, and a rounded lug provided upon the bottom of said hopper at its central portion, said rail having at its central casing portion a rounded recess to coöperate with said lug.

1,349,839. MACHINE FOR EXTRACTING JUICE FROM FRUIT. JACOB LEVIN, Springfield, Mass. Filed Jan. 3, 1920. Serial No. 349,134. 6 Claims. (Cl. 100—49.)



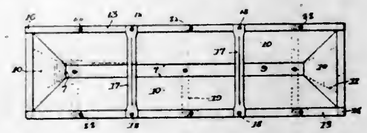
5. A machine for extracting juice from fruit having, in combination, a casing embodying a vertical back-plate, a juice conveyer comprising a main body portion provided with a chamber extending therethrough and terminating at its lower end in a spout with an open top, the upper end of said conveyer terminating in a horizontal portion extending through said back-plate and open at the top, means to fasten said conveyer to said back-plate, a hopper located at the rear of said back-plate, a spout leading out of said hopper and terminating at its outer end above the open top of the horizontal portion of said conveyer and means in said hopper adapted to extract juice from fruit.

1,349,840. DRUM. JOSEPH LIMONCELLO, Chicago, Ill. Filed Jan. 14, 1920. Serial No. 351,300. 1 Claim. (Cl. 217—1.)



A drum having an outside, one-piece wall, of veneer, with the grain extending axially of the drum; a lining of calendered paper in intimate contact with the entire inner surface of the outer wall and terminating inside the chime at each end; a plurality of pairs of hoops, between the usual end hoops, one of each pair on the inside of the structure and one on the outside thereof; a head in each end, each head neatly corresponding in diameter to the inner diameter of the outer wall; a cleat on the inner surface of the head, equal in length to the diameter of the head; another cleat on the outer surface of the head, disposed at right angles to the inner cleat, said outer cleat being materially shorter than the diameter of the head, at each end, and secured to the head before the head is placed in position in the end of the drum; a hoop, insertible between the inner surface of the outer wall and the ends of the outer cleat, after the head has been placed in the end of the drum and means to secure the head, hoop and cleat, in place whereby to provide a strong, moisture-proof drum and to facilitate closing thereof.

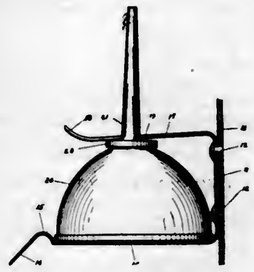
1,349,841. TROUGH AND METHOD OF PRODUCING THE SAME. AUGUST J. LUEDKE, Milwaukee, Wis., assignor to Milwaukee Corrugating Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 15, 1919. Serial No. 290,145. 7 Claims. (Cl. 119—61.)



1. As an article of manufacture, a trough formed from a sheet of bendable material and comprising a bottom portion defined by bend lines, side wall portions formed by providing a plurality of series of fold lines extending outwardly from the bend lines, the outer lines of each adjacent series of said fold lines being outwardly diverged with respect to each other, each of said side wall portions having a bend line adjacent each outer edge, the portion of the sheet of material outwardly of each of said last mentioned bend lines forming edge flanges, and the opposite ends of each of said edge flanges having interlocking retaining tabs.

1,349,842. OIL-CAN HOLDER. CHARLES W. MCKINLEY, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 29, 1917. Serial No. 199,090. 2 Claims. (Cl. 248—20.)

1. An oil can holder comprising a vertical portion; a spring tongue extending forwardly from the lower edge of said vertical portion and constituting a base upon which an oil can is adapted to seat, said spring tongue being provided with an abutment near the forward edge thereof, adapted to engage one edge of the oil can, and with a downwardly extending lip; a spring tongue extending forwardly from the upper edge of the vertical portion of said holder, said tongue being provided with an upwardly curved outer end, and with a longitudinally extending slot therein, said tongue being adapted to engage the top of the oil can with the oil can spout disposed in said slot.



2. An oil can holder comprising an integral sheet metal stamping having a vertical portion, a spring tongue extending forwardly from the lower edge of said vertical portion and constituting a base upon which an oil can is adapted to seat, said spring tongue being provided with a downwardly extending lip near the forward edge thereof, a spring tongue extending forwardly from the upper edge of the vertical portion of said holder, said tongue being provided with an upwardly curved outer end, and a longitudinally extending slot for receiving the oil can spout, the said tongue being adapted to resiliently engage the top of the oil can to hold the same in position.

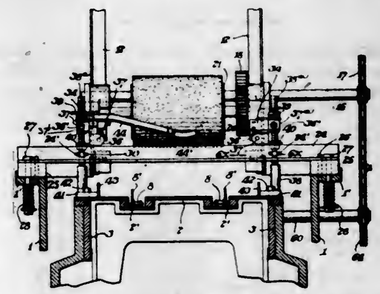
1,349,843. PRESSURE-REGULATOR. HERBERT H. MACOMBER, Kendallville, Ind., assignor to Flint & Walling M'f'g Co., Kendallville, Ind., a Corporation of Indiana. Filed Mar. 2, 1917. Serial No. 151,921. 3 Claims. (Cl. 200—83.)



1. A pressure regulator embodying a diaphragm, a switch to be actuated, and intermediate mechanism including a plunger, snap throw effecting linkage for the switch, connecting means between the plunger and linkage, and a dog movable independently of the linkage and actuable from the connecting means to hold the switch closed.

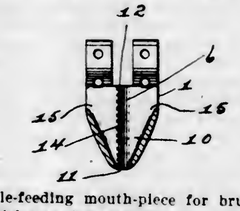
1,349,844. CHOCOLATE AND CANDY MACHINE. SYLVESTER S. MARVIN, Bryn Mawr, and WILLIAM MUNZ, Philadelphia, Pa., assignors to Pennsylvania Chocolate Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 8, 1919. Serial No. 329,400. 17 Claims. (Cl. 193—24.)

1. In a machine of the character described, the combination with a vertically reciprocatory table and conveying mechanism movable over said table, of an inclined way, a device for controlling the movement of articles along said way to said table, reciprocatory means to which said



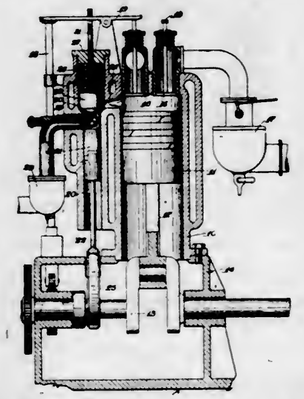
device delivers said articles, and mechanism whereby the movements of said table operate said means and articles held thereby are delivered to said conveyer.

1,349,845. MOUTHPIECE FOR BRUSH-MAKING MACHINES. JOSEPH W. MAYER, Troy, N. Y., assignor to John A. Murray, Albany, N. Y. Filed Feb. 19, 1920. Serial No. 359,892. 3 Claims. (Cl. 15—7.)



2. A bristle-feeding mouth-piece for brush-making machines comprising an integral block provided with a downwardly tapered bristle-guiding slot therethrough, and on opposite sides of said slot drilled apertures open on the inner side to said slot, and pins tightly fitting said respective drilled apertures, said pins being cut-away on their inner sides to conform to said slot and being provided with oppositely disposed staple-guiding grooves, and cross-pins inserted through said block and said tight-fitting pins.

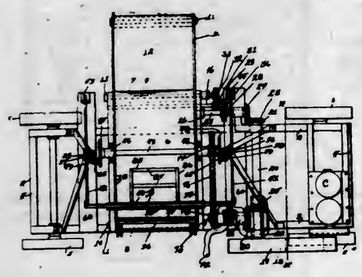
1,349,846. GAS-ENGINE IGNITION. GEORGE L. MEYER, Milwaukee, Wis. Filed Mar. 12, 1918. Serial No. 221,936. 9 Claims. (Cl. 123—143.)



1. In a gas engine, the combination of a priming explosion chamber having a valve controlled inlet distinct from the combustion chamber and a valve controlled outlet

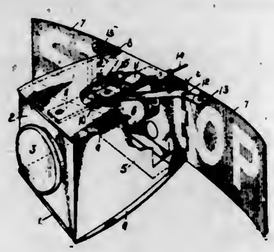
communicating with the explosion chamber of the gas engine, and electrical ignition means for producing an explosion in said priming explosion chamber.

1,349,847. CORN-HEADER. JOHN R. MINGLE, Anthony, Kans. Filed Dec. 15, 1916. Serial No. 137,254. 2 Claims. (Cl. 146—7.)



2. In a cord header, the combination with a conveyer for carrying stock heads, and a suitable frame, a bale having side arms, slidably and pivotally mounted on said frame so that its body end is arranged over said conveyer and adapted to reciprocate, a cutting blade mounted on the body of the bale, a pair of upwardly extending standards slidably mounted on said frame and movably attached to said arms, means for reciprocating said standards, an upwardly projecting reach from said frame and above said bale and a contraction spring connected to the upper end of said reach and to the forward portion of said bale for raising the bale and blade, said reach being adapted to increase the distance between the attaching ends of the spring whereby a greater length of spring may be employed, and a chopper block with which said blade is adapted to coöperate.

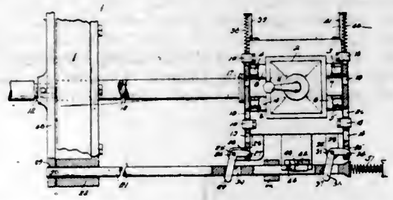
1,349,848. SIGNAL MEANS. HUBERT A. MYERS, Toledo, Ohio. Filed Feb. 7, 1920. Serial No. 356,873. 3 Claims. (Cl. 116—45.)



1. In a lamp, a casing having windows in opposite sides thereof, a light creating means disposed within the casing, shutters hinged to the casing at the rear of the windows for outward and rearward swinging movements and displaying a signal on the inner sides thereof, said shutters being adapted to close the windows and when in open position to have light rays from the interior of the casing directed thereon through the windows, and means operable for opening and closing said shutters in unison.

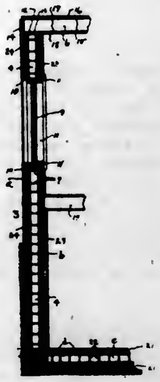
1,349,849. AUTOMOBILE-LOCKING DEVICE. CHARLES F. NORTON, East St. Louis, Ill. Filed Aug. 1, 1918. Serial No. 247,794. 2 Claims. (Cl. 70—126.)

1. In combination with a vehicle having a drive shaft and a transmission case provided with sliding pins, means movable in front of the sliding pins to block movement thereof, a lock plate fixed to the driving shaft, a plunger-rod, means for actuating the plunger-rod to cause same



to engage the lock-plate and hold the driving shaft from rotation, means for operatively connecting the means movable in front of the sliding pins with the plunger rod, and a lock for locking the means for actuating the plunger-rod.

1,349,850. BUILDING CONSTRUCTION. DAVID C. PATTERSON, Omaha, Nebr. Filed Sept. 18, 1919. Serial No. 324,467. 1 Claim. (Cl. 72—1.)

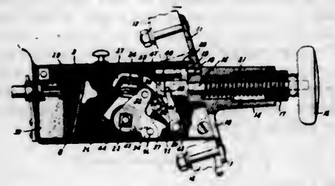


In building construction, a pair of upright walls each being provided with an opening, tie-rods embedded in said walls for maintaining them approximately parallel and to provide an air space therebetween, a frame in the openings of said walls, a footing for supporting and for closing the air space at the bottom of said walls, an insulating element mounted upon the upper terminals of said walls, a cap-member upon said insulating element, a compressible fibrous element in the openings of said walls for engaging the frame, a base-member of adhesive material extending horizontally from the footing, upright spacing-bars embedded in and projecting above the base-member, and a plurality of floor-plates of adhesive material disposed end to end above the base-member engaging the spacing-bars for providing an air-space between the base-member and floor-plates approximately equal in area to the area of said base-member.

1,349,851. ELECTRIC SWITCH. ROBERT J. PARSONS, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed June 10, 1918. Serial No. 239,118. 6 Claims. (Cl. 200—70.)

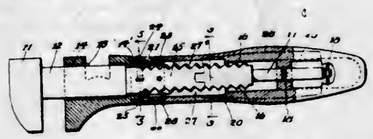
1. In an electric switch, a fixed contact, a movable contact, spring means for moving the movable contact into and out of engagement with the fixed contact, an actuator which when moved to an intermediate position puts said spring means under tension, and two catches for holding

said spring means under tension, said actuator when moved in one direction from said intermediate position releasing one of said catches to permit said spring means



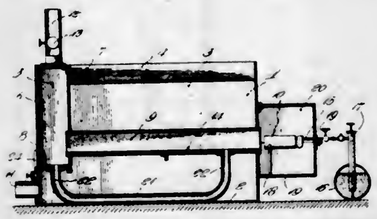
to close the switch and when moved in another direction releasing the other catch to permit said spring means to open the switch.

1,349,852. ADJUSTABLE WRENCH. EDWARD M. PAULEY, Birdsview, Wash. Filed Aug. 11, 1919. Serial No. 316,586. 1 Claim. (Cl. 81—160.)



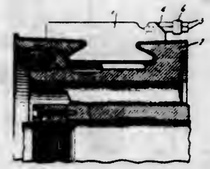
A wrench having an adjustable engaging head integral with a shank, said shank having oppositely disposed racks thereon, a reduced portion beyond said racks, and a stop pin at the rear end of said shank, in combination with a handle surrounding the shank and in which said shank is movable, said handle being in two parts, namely, a head portion coöperating with said engaging head and having a reduced rear end, and a hollow grip for the hand of the user; a coiled spring between said head portion and said grip; a slotted collar secured to the forward end of the grip and encircling the same said collar also encircling the reduced end of the head portion and the spring therebetween; guide pins in the reduced rear end of the head portion projecting through the slots in said collar to permit a turning movement of said grip; toothed segments on the interior of said hollow grip engaging the racks upon said shank when in one position to lock the same from movement, and disengaging these rack portions when the grip is turned to free the shank for adjustment; and a collar on the interior of said hollow grip in which is guided the reduced portion of said shank, and with which the stop pin engages to limit the adjustment of the shank.

1,349,853. SNOW-MELTER. HUGH LYLE PEDEN, New York, N. Y., assignor of one-half to William F. Kearney, Spring Valley, N. Y. Filed Dec. 11, 1919. Serial No. 344,014. 2 Claims. (Cl. 126—343.5.)



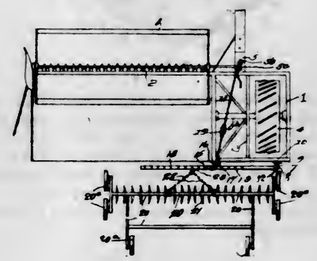
1. A snow melter comprising a rectangular tank open at its top to receive the snow, a smoke box at one end of said tank, an outlet from said smoke box, a plurality of parallel horizontal pipes communicating at one end with said smoke box and extending therefrom to the opposite end of the casing, a burner casing on the outer side of the last named casing end, and burners in said burner casing alined with said pipes for directing flame into the latter.

1,349,854. COMMUTATOR FOR DYNAMO-ELECTRIC MACHINES. EDWARD D. PRIEST, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 17, 1917. Serial No. 207,517. 2 Claims. (Cl. 171—321.)



2. In a commutator for dynamo electric machines, a commutator segment provided at one end with a lead receiving slot, a pair of armature leads fastened therein, and means for mechanically and electrically connecting said leads together, said means being independent of and spaced from the end of the commutator segment.

1,349,855. ATTACHMENT FOR BINDERS. HARRY H. ROBERTS, Corwin, Kans. Filed Feb. 7, 1920. Serial No. 356,854. 4 Claims. (Cl. 213—67.)

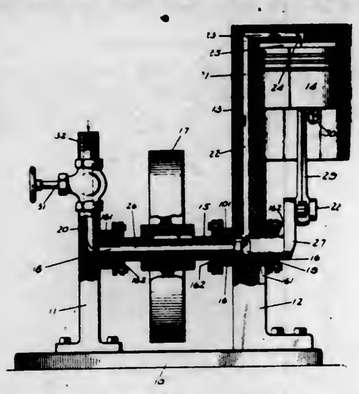


1. The combination with a wheel supported frame, of an implement at the rear thereof, a drawbar operatively pivoted on the rear of said frame offset in a plane to one side of the draft tongue of said frame, a clevis adjustably and operatively connected to the drawbar and having diverging chain connections with said implement, a cable having its forward end adjustably connected to the forward part of the frame, and its rear end adjustably and operatively connected to said drawbar, said cable comprising two sections, and means connecting the adjacent ends of the sections for adjusting the drawbar with respect to the rear of the frame.

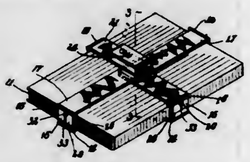
1,349,856. ENGINE. HENRY RUTTINGER, Buffalo, N. Y. Filed Oct. 15, 1919. Serial No. 330,896. 2 Claims. (Cl. 121—101.)

1. In an engine, the combination of two standards, a crankshaft supported in bearings intermediately located on the standards, a flywheel mounted on said crankshaft between the standards, a cylinder carried by one of said standards above the crankshaft, passageways in said standards extending upwardly and away from said crank-

shaft, a passageway in said crankshaft joining the passageways in said standards, passageways connecting the chamber of said cylinder with the passageway in the standard by which the cylinder is carried, and an independent valve opening through the walls of said cylinder.

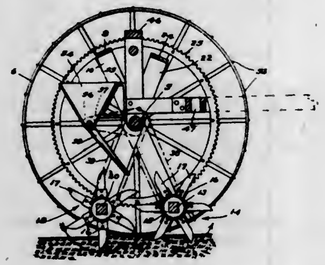


1,349,857. BOOK-LOCK. STEVEN SALOP, Youngstown, Ohio. Filed Apr. 30, 1920. Serial No. 377,767. 3 Claims. (Cl. 24—17.)



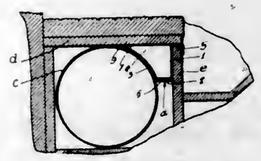
1. A book lock comprising a rigid cross shaped member, sections adjustable to the thickness of a book each comprising two non-rotatable but relatively movable parts, hinges joining one of the parts of each of said sections to one end of said member, a series of upper foldable arms, hinges joining each of the other of said parts to one end of each of said arms, and means for locking the other ends of said arms together.

1,349,858. SOIL-PULVERIZER. WILLIAM H. SHERROD, Seattle, Wash. Filed May 1, 1919. Serial No. 293,982. 2 Claims. (Cl. 55—85.)



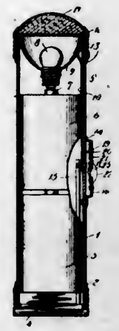
1. A soil pulverizer comprising an axle member, a wheel journaled on each end thereof, two cylindrical cutter members each provided with axial shafts that are arranged substantially parallel with said axle member, each of said cylindrical cutter members having radially projecting knives arranged in circular rows and the knives on one of said cutter members being offset with respect to the knives on the other of said cutter members, U-shaped members swingingly mounted on said axle, the said cylindrical cutter members being journaled in the lower ends of the said U-shaped members, lever means connected with the upper portions of said U-shaped members for swinging the same about said axle to raise and lower said cutter members, gear means connected with said wheels for rotating said cutter members, and clutches for disengaging said gear means.

1,349,859. TOOL-BOX. SETH R. SMITH, Los Angeles, Calif. Filed Jan. 13, 1920. Serial No. 351,227. 3 Claims. (Cl. 296—37.)



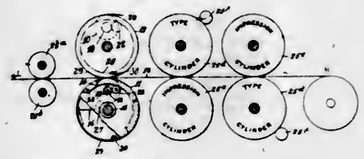
3. A tool box comprising front, end and rear walls and a bottom all formed of a single piece of sheet metal, and the end edges of the front wall and the forward edges of the end walls being joined together, the lower edge of the front wall and the formed edge of the bottom being joined together, the rear edge of the bottom and the lower edge of the rear wall being joined together, the rear edge of the rear wall being adapted to extend between the seat board of a vehicle and the fuel tank thereof, and the front wall having a forwardly extending flange adapted to rest upon the upper edge of the front board of the seat.

1,349,860. HAND-LAMP SWITCH. ARTHUR L. STAPLES, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Nov. 11, 1919. Serial No. 337,149. 8 Claims. (Cl. 200—60.)



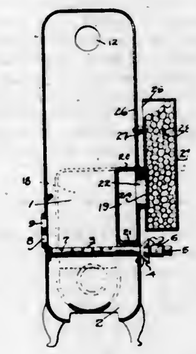
3. A contact device for battery hand lamps, comprising a spring member manually operable for instantaneous contact, and means movable in one direction to lock said member in closed-circuit position and movable in the other direction to lock said member in open-circuit position.

1,340,861. PRINTING-PRESS. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 19, 1917. Serial No. 202,683. 25 Claims. (Cl. 91—16.)



5. The combination with means for conveying a sheet, of means, running at a different speed, for brushing carbon over the surface of the sheet to product a predefined spot of carbon coating thereon during the motion of the sheet.

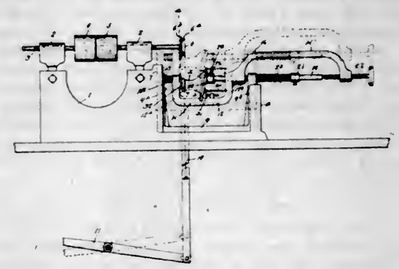
1,349,862. GAS-BURNING HEATER. JOHN C. TATE, Oakland, Calif. Filed Mar. 4, 1918. Serial No. 220,157. 1 Claim. (Cl. 126—91.)



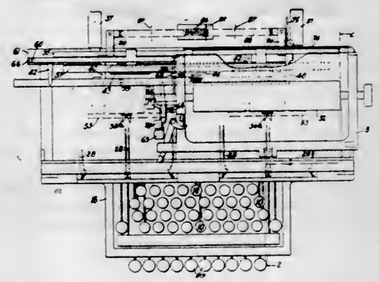
In a heater of the character described, an upstanding combustion chamber provided at its lower end with an air inlet, a burner extending transversely within the lower portion of the combustion chamber and having sets of apertures arranged upon the opposite sides of its longitudinal axis for providing flames which impinge against the sides of said combustion chamber, upstanding tubes arranged outwardly of and near the combustion chamber and having their upper ends in communication therewith while their lower ends are free from communication with the combustion chamber, reheating chambers arranged contiguous to the side walls of the combustion chamber, said extensions having their lower ends open and in communication with the lower ends of said tubes, and a revivifying chamber connected with the reheating chambers and receiving the highly heated gases therefrom said revivifying chamber being adapted for the reception of chemical material and having an outlet opening near its top and upon the inner side thereof adjacent the heated wall of the combustion chamber.

1,349,863. TOP-LIFT-BURNISHING MACHINE. FRANK J. TISDELL, Lynn, Mass., assignor of one-fourth to Charles B. Davis, Lynn, Mass., and one-half to Gregory & Read Co., Lynn, Mass., a Corporation of Massachusetts. Filed May 31, 1919. Serial No. 301,075. 9 Claims. (Cl. 12—72.)

1. A machine for finishing the edge of a top-lift of a heel comprising a rotary tool having an edge-finishing portion and a tread face engaging flange, yoke having manually controlled means to move it transversely of the axis of the tool, a heel-clamp frame, having heel-clamping members, said frame being pivotally mounted at its ends in the arms of said yoke and arranged to be manually moved about an axis parallel to the axis of the tool, and longitudinally thereof, to permit the thread face of the top-lift to be held against said flange while its edge is engaged with the edge-finishing portion of the tool, as the heel is moved rotatably and transverse axially.

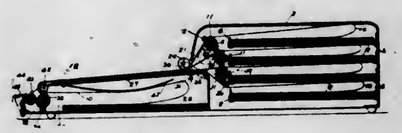


1,349,864. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 13, 1919. Serial No. 282,306. 22 Claims. (Cl. 197—22.)



1. In a typewriting machine, the combination with a plurality of type-sets spaced from each other transversely of the machine, of a carriage having a limited range of movement in a direction transverse of the machine, a letter-space escapement mechanism for said carriage, a platen movable with said carriage, and means whereby said platen may be set along said carriage at different positions in a direction transverse of the machine, so as to coöperate with any desired type-set.

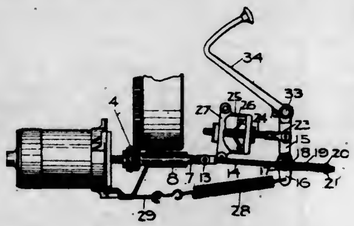
1,349,865. MANIFOLDING DEVICE. WILLIAM J. WISWALL, Portland, Oreg. Filed Oct. 15, 1919. Serial No. 330,941. 3 Claims. (Cl. 282—4.)



3. In a manifolding device of the character described, the combination therein of, a case, a container forwardly of the case, having a writing table on its upper surface, a series of trays in the case positioned one above the other and arranged to contain continuous strips of paper folded

in zigzag pad form, and rollers in the outward part of the container arranged in a manner to allow the paper strips, one above the other, as drawn from the said trays outwardly over the table, to be threaded through the rollers and when these are rotated to allow the upper strips of the paper to be passed outwardly and the lowest strip to be passed into the container folded into pad form, a series of rollers positioned in the case forwardly of and in relation to the trays and table, said rollers being arranged to receive strips of carbon poper and to allow the same to be unrolled therefrom and passed between the paper strips longitudinally over the table a desired distance, and mechanism appurtenant to the said rollers whereby the same may be rotated in either direction simultaneously and locked in a desired position, for the purpose indicated.

1,349,866. ENGINE-STARTING APPARATUS. LIONEL M. WOLFFSOHN, now by judicial change of name Lionel M. Woolson, Union, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Mar. 8, 1917. Serial No. 153,359. 19 Claims. (Cl. 290—38.)

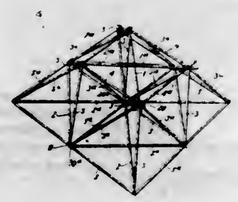


10. The combination in an engine starter, of a driven gear connected to an engine, a starting motor, a driving pinion connected thereto, operating means for shifting said pinion in an axial direction into mesh with said gear, said means being constructed and arranged first to store upon butting sufficient energy to produce meshing, and then to energize said motor for freeing said pinion thereby releasing said stored energy for effecting meshing.

1,349,867. DYEING. CHARLES S. ALTHOUSE, Reading, Pa. Filed June 24, 1920. Serial No. 391,466. 4 Claims. (Cl. 8—13.)

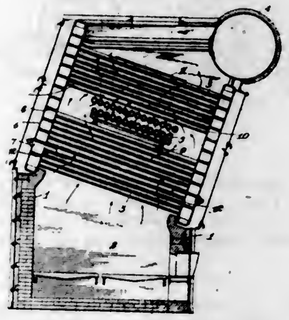
1. That step in the art of dyeing cotton goods sulfur black, which consists of introducing magnesium sulfate into the softening bath.

1,349,868. REINFORCED CELLULAR STRUCTURE. GROSVENOR ATTERBURY, New York, N. Y. Filed Apr. 16, 1918. Serial No. 228,873. 20 Claims. (Cl. 72—48.)



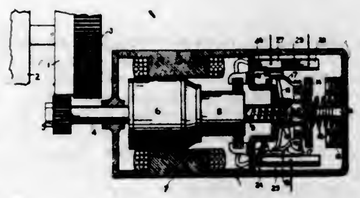
15. A reinforcement for cementitious material having two substantially parallel surfaces comprising members arranged to form pyramids having square bases in the outer surfaces of the reinforcement.

1,349,869. MARINE BOILER. JOHN E. BELL, Brooklyn, N. Y., assignor, by mesne assignments, to Foster Marine Boiler Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 23, 1918. Serial No. 263,828. 3 Claims. (Cl. 122—303.)



1. In a boiler of the kind described, the combination with transverse rows of boiler tubes, alternate rows being very closely and widely spaced respectively, whereby longitudinal channels will be formed between the rows of closely spaced tubes, of short baffles in contact with a row of closely spaced tubes at each end of the same in the upper and lower parts of the bank of tubes, and a wider intermediate central baffle with gas passages at both ends, whereby the hot gases will be caused to flow horizontally through the channels and more equally upward between the closely spaced tubes.

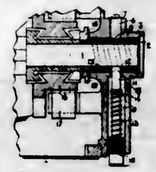
1,349,870. ELECTRICAL STARTINB APPARATUS. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Nov. 21, 1914. Serial No. 873,264. 4 Claims. (Cl. 290—38.)



1. In apparatus of the class described, in combination an electric motor provided with a brush upon the neutral point of its commutator, a brush circumferentially offset from its neutral points, a pair of contacts respectively connected with said brushes, a source of current, a member connected with said source of current, a contact member adapted to make sliding contact with said first contacts and move from one to the other thereof, said contact member being electrically connected with said first member, and means adapted to move said contact member as the motor is started.

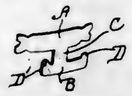
1,349,871. LUBRICATING DEVICE FOR DYNAMOS AND THE LIKE. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Nov. 29, 1915. Serial No. 63,951. 8 Claims. (Cl. 64—24.)

1. In a device of the class described, in combination, a rotary member, a bearing for said member, a reservoir for lubricant extending below said member, said reservoir being provided with a vent hole in its upper portion



through which excess lubricant is discharged, and a wick in said reservoir contacting with said rotary member and adapted to transmit lubricant from said reservoir thereto.

1,349,872. COLLAR-BUTTON. NATHAN BLATTBERG, New York, N. Y., assignor of one-half to Samuel Lachs, New York, N. Y. Filed Nov. 26, 1918. Serial No. 264,214. 4 Claims. (Cl. 24—101.)



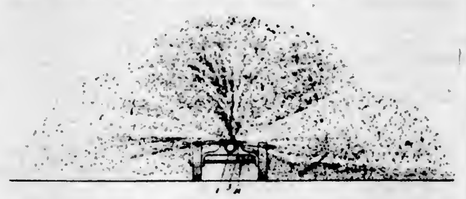
1. A collar button comprising a plurality of longitudinally curved members and a shank connecting said members, one of said members being provided with a plurality of lugs which extend from an edge portion of said member toward the other member and said lugs being positioned at opposite sides of the connecting shank.

1,349,873. ELECTRIC SWITCH. CHRISTEN CHRISTENSEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 5, 1917. Serial No. 178,558. 7 Claims. (Cl. 200—150.)



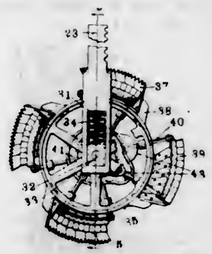
1. An electric switch comprising two pairs of fixed contacts, separate movable contacts coöperating with each pair of fixed contacts, means for connecting said contacts in series, a common vessel containing oil inclosing said contacts, separate actuating mechanisms for independently controlling said movable contacts supported by said oil vessel, and means for moving said independent actuating mechanisms in synchronism whereby as the switch opens four breaks simultaneously occur in series.

1,349,874. LAWN-SPRINKLING DEVICE. WALTER HAYS COLES, Troy, Ohio. Filed Aug. 29, 1916. Serial No. 117,401. 1 Claim. (Cl. 299—58.)



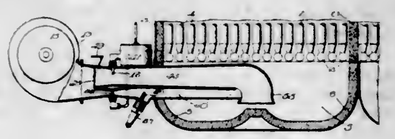
An irrigating apparatus comprising: a horizontally disposed non-oscillating distributing pipe, two nozzles carried in the upper circumference of the pipe substantially equidistant from a vertical line passing through the center of the pipe, each nozzle having a channel and a deflecting surface overhanging said channel on which the issuing stream impinges, the deflecting surfaces of said two nozzles being arranged back to back and the direction of deflection of both nozzles being away from the vertical, and a third nozzle also having a channel and a deflecting surface overhanging the channel on which the issuing stream impinges, arranged intermediate the first two nozzles and inclined slightly with respect to the vertical center line of pipe, the direction of deflection being opposite to that of the inclination of said third nozzle.

1,349,875. ROTARY PLOW. GEORGE A. CURRIER, St. Louis, Mo. Filed Feb. 2, 1918. Serial No. 215,025. 3 Claims. (Cl. 97—63.)



1. In a plow, the combination with a rotary member, of a plowing blade spirally arranged thereon, a scraper for said blade, and a pair of radially moving arms actuating said scraper, one of said arms having sliding connection with said scraper.

1,349,876. APPARATUS FOR BURNING FUEL. ABNER DOBLE, Detroit, Mich., assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich., a Corporation of Delaware. Filed Jan. 2, 1917. Serial No. 140,020. 2 Claims. (Cl. 158—29.)

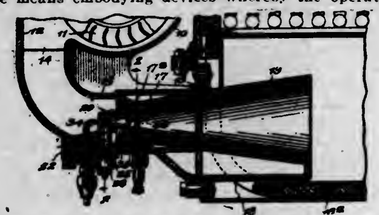


1. In a steam power plant, a liquid fuel burning device comprising a main Venturi tube having a fuel nozzle therein, a blower, means for operating the blower, a by-pass in the main venturi and means for momentarily diverting air from said blower through said by-pass, and an igniter and an auxiliary fuel nozzle in said by-pass.

1,349,877. LIQUID-FUEL-IGNITION MECHANISM. ABNER DOBLE, Detroit, Mich., assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich., a Corporation of Delaware. Filed Aug. 27, 1917. Serial No. 188,502. 10 Claims. (Cl. 158—31.)

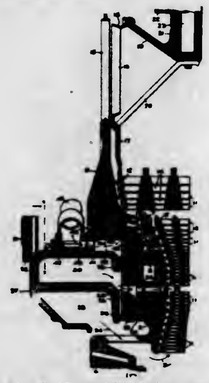
1. In a liquid-fuel burning apparatus, a main atomizer for forming a non-spark-ignitible mixture, an auxiliary atomizer so positioned as to throw an additional spray of liquid fuel directly into the spray of said main atomizer whereby said sprays combine to form an enriched mixture capable of ignition by an electric spark, an electric sparker mechanism, and means to operate said auxiliary

atomizer during the operation of the sparker mechanism, these means embodying devices whereby the operation of



the auxiliary atomizer is stopped after momentary operation, for the purpose set forth.

1,349,878. EXTRACTION AND MIXED-PRESSURE TURBINE. JOHN H. DORAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 14, 1918. Serial No. 239,942. 10 Claims. (Cl. 60—43.)



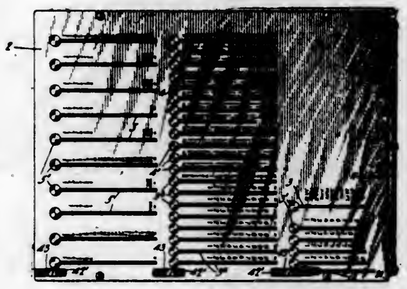
1. In an elastic fluid turbine, the combination of relatively rotating parts, two separate sets of packings for reducing leakage, said sets of packings being spaced to form an annular passage between them, fluid conveying means which connects a region of intermediate pressure in said rotating parts with the passage between said packings, and means communicating with the outside of the turbine and through which fluid can flow into or from said passage.

1,349,879. SKIRT. SOPHIE FRANKFURT, New York, N. Y., assignor to Maher & Kessler, New York, N. Y., a Firm. Filed Oct. 27, 1919. Serial No. 333,663. 10 Claims. (Cl. 2—42.)



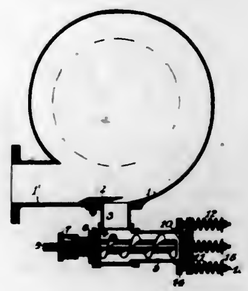
1. In a skirt, means adjustable in length for connecting the lower portion of the skirt with the waist band thereof when worn on the person for producing a bag effect in the skirt.

1,349,880. CHECK-WRITER. LUTHER E. GRONSETH, Duluth, Minn. Filed Sept. 14, 1918. Serial No. 254,074. 6 Claims. (Cl. 101—93.)



1. A check writer, embodying a casing, a supporting frame within the casing, tiers of movable type supported in the frame, means for moving selected type to operative position, a platen, means for drawing the platen against the type, and means controlled by the platen moving means for returning the type to normal positions.

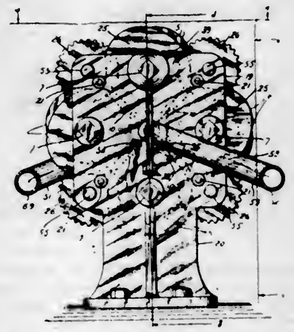
1,349,881. APPARATUS FOR SEPARATING SOLIDS FROM LIQUIDS. HENRY N. HERRICK, Bakersfield, Calif. Filed Feb. 19, 1920. Serial No. 359,781. 5 Claims. (Cl. 210—1.)



1. An apparatus for separating solids from liquids comprising a centrifugal pump for rotating the aggregate mass whereby the solid matter is thrown outwardly; means within the pump for intercepting the outwardly thrown solid matter and separately discharging the same; a housing to receive the discharged solid matter, said housing having an outlet; a valve normally closing said outlet; and means within the housing for forcing said solid matter past said valve.

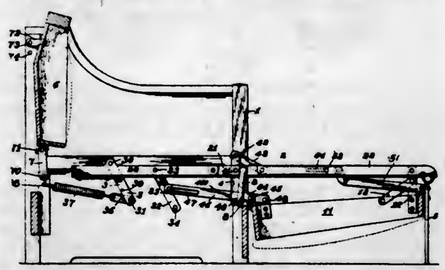
1,349,882. ROTARY ENGINE. WALTER A. HOMAN, Denver, Colo. Filed Jan. 28, 1918. Serial No. 214,074. 11 Claims. (Cl. 123—12.)

1. An internal combustion rotary engine including a stationary frame, a number of elliptical pistons mounted to rotate and coöperating with the frame to form a chamber whose volume varies as the pistons change position for intake, compression and exhaust purposes, the cham-



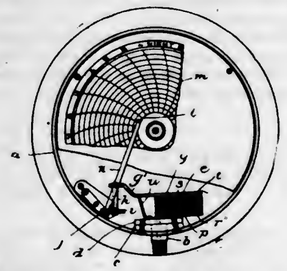
ber having inlet and exhaust ports, and means for opening and closing said ports at properly timed intervals.

1,349,883. FOLDING DAVENPORT-BED. ORNAN A. HONSINGER, Tacoma, Wash. Filed May 11, 1915, Serial No. 27,295. Renewed Nov. 3, 1919. Serial No. 335,472. 14 Claims. (Cl. 5—51.)



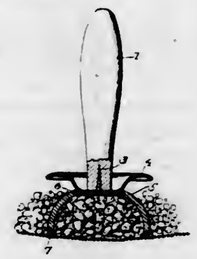
13. In a folding davenport, a frame, a back mounted to swing into open or closed position, and back supports comprising upper and lower links pivoted to the frame and to the back, the upper links being in substantial alinement with the back in the closed position to resist an upward effort, and the lower links being in substantial alinement with the back in the open position to resist a downward effort, and a stop limiting the swing of the back beyond the closed position.

1,349,884. DIAPHRAGM-GAGE. FRANK H. HOPKINS, Somerville, Mass., assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed July 11, 1917. Serial No. 179,883. 4 Claims. (Cl. 73—110.)



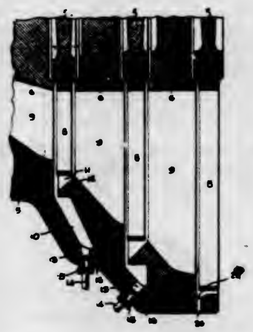
1. A diaphragm gage having flexible diaphragms peripherally connected in pairs to form shallow chambers, said chambers being superposed one upon another in a substantially axially alined series, connections having internal open communication between adjacent chambers, all at one and the same side of the axial line of the series, a support for the chamber at one end of the series having an opening for admission of fluid in communication with said end chamber and therethrough with all the chambers, and means connecting the central points of contiguous walls of adjacent chambers together.

1,349,885. POTATO-MASHER. CLARENCE E. JENKINS, Keene, N. H. Filed Dec. 1, 1919. Serial No. 341,766. 7 Claims. (Cl. 146—15.)



1. A vegetable masher comprising a crushing element and yieldable means carried by said masher for confining the substance within the immediate region of the crushing element.

1,349,886. ELASTIC-FLUID TURBINE. OSCAR JUNGGREN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 9, 1919. Serial No. 295,857. 3 Claims. (Cl. 253—76.)

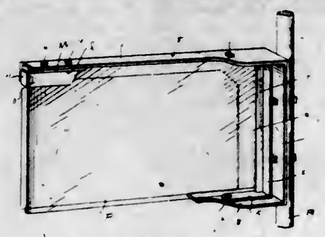


1. In an elastic fluid turbine, the combination of a rotor having buckets thereon, a casing surrounding the rotor, and diaphragms in the casing on each side of the rotor, said diaphragms forming with the casing an annular chamber surrounding the rotor and connected to the space adjacent its periphery by a continuous annular groove which is formed between adjacent walls, and an annular sloping wall for directing water to said groove.

1,349,887. SASH CONSTRUCTION. EDGAR M. JUTKINS, La Junta, Colo. Filed Mar. 22, 1919. Serial No. 284,274. 3 Claims. (Cl. 20—56.)

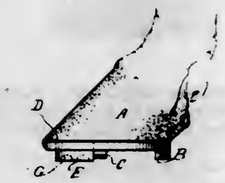
1. A sash structure for a safety window of a locomotive cab comprising a substantially U-shaped frame, the marginal portions of said frame being defined by inwardly directed flanges, a panel insertible within the frame and

engaging the flanges, a yoke pivotally engaged with the side members of the frame and having clamping engagement with the end portion of the panel adjacent the inter-



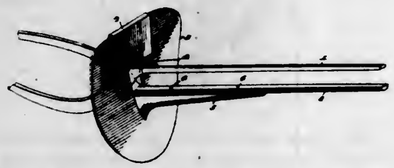
mediate member of the frame, and a member carried by the outer end portion of one of the side members of the frame and engaging the panel.

1,349,888. HORSESHOE. EDWARD C. KENNY, Brooklyn, N. Y. Filed Jan. 29, 1916. Serial No. 75,167. 7 Claims. (Cl. 168—14.)



1. In a horseshoe, the combination of a metal tread of suitable thickness and semi-elliptical plan view, with a pad of resilient or yielding material adapted to be secured between the horse's hoof and the metal tread having an integral projection extending downwardly near the toe, the lower surface of which extends below the tread surface of the metal member, the rearward side of said projection having a reinforcing bar adjacent thereto, said reinforcing bar being adapted to be removably connected at its ends to the sides of the metal member.

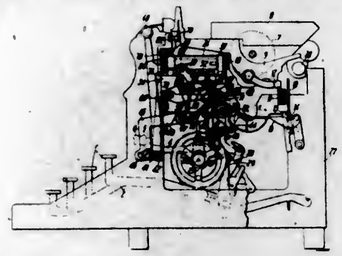
1,349,889. SHIELD FOR BUTTON-CUTTERS' SHELL-TONGS. WILLIAM J. KOCH, La Crosse, Wis. Filed Mar. 9, 1920. Serial No. 364,588. 5 Claims. (Cl. 294—131.)



1. A shield for button cutters' shell tongs comprising, a plate having a slot extending downwardly from its upper edge toward its center and a rearwardly extending, horizontal arm for attachment to the under side of the lower handle member of a tongs in rear of the pivot.

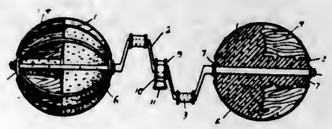
1,349,890. TYPEWRITING-MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 23, 1918. Serial No. 255,250. 34 Claims. (Cl. 197—1.)

1. A printing device adapted to be attached to a ribbon-printing type-bar typewriting machine having a frame, said device comprising a member adapted to fit upon the frame of the machine, a ribbon vibrator adapted to raise



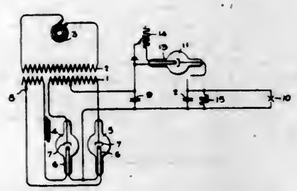
the ribbon to effective position from a point below the printing line, and a ribbon guide adapted to operate a ribbon-reversing device in the typewriting machine.

1,349,891. SWIMMING DEVICE. TIMOTHY A. KUZNETZOFF, Brooklyn, N. Y. Filed May 28, 1920. Serial No. 384,938. 7 Claims. (Cl. 9—21.)



1. A swimming device, the combination with a crankshaft, floating balls on the end of said crankshaft, and paddles attached to and forming a part of said balls.

1,349,892. METHOD OF AND MEANS FOR OBTAINING CONSTANT DIRECT CURRENTS OR POTENTIALS. IRVING LANGMUIR, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 22, 1915. Serial No. 68,287. 8 Claims. (Cl. 175—363.)

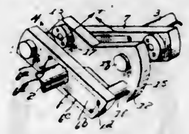


3. The method of obtaining a direct current of constant value from a variable voltage source which consists in delivering current from said source to a utilization circuit through a current limiting device and operating the current limiting device in such a way that the current flowing therethrough is maintained substantially constant at a desired value over a range of voltages of the variable voltage source greater than the voltage required to produce a current of the desired value.

1,349,893. CRANK-SHAFT FOR INTERNAL-COMBUSTION ENGINES. FRED S. LEE, Vanlue, Ohio. Filed Mar. 24, 1920. Serial No. 368,338. 4 Claims. (Cl. 74—38.)

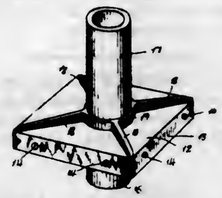
1. A crank shaft comprising crank shaft journals, crank arms connected to the adjacent ends of said journals and arranged at angles to each other radially from the journals, an intermediate crank arm having segmental parts, the edges of which correspond to the angles of the first

crank arms, each of said remote longitudinal edges of the first crank arms consisting of two sections, one consisting of an inset section, the other a crank arm completing section having a slot to receive the inset section, the inset



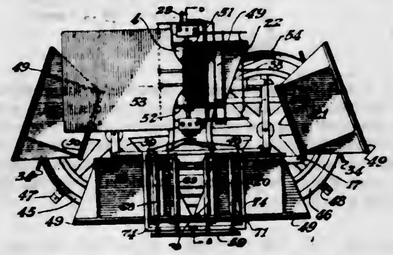
section carrying one of said crank shaft journals at one end, a connecting rod journal at the other end of said inset section and being connected to an opposite segmental part of the intermediate crank arm, and means to secure the inset section in the crank arm completing section.

1,349,894. ROOF ATTACHMENT. JAMES H. LORD, Methuen, Mass. Filed Jan. 10, 1920. Serial No. 350,551. 2 Claims. (Cl. 285—31.)



2. A roof attachment substantially as specified by claim 1, the flange being provided on its upper side with radial strengthening ribs, and with a cylindrical enlargement joined to the inner ends of said ribs and constituting a seat for the lower end of the stack.

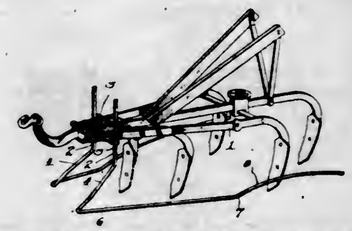
1,349,895. MULTICOLOR PRINTING MACHINE. JOSEPH F. LOUGHRAY, Philadelphia, Pa. Filed Mar. 13, 1920. Serial No. 365,416. 7 Claims. (Cl. 101—186.)



1. In a multi-color press, the combination of a pathway embodying two straight reaches and two curved connecting end reaches,—a plurality of traveling type beds which carry impression forms and are adapted to travel consecutively throughout the pathway,—an idle type bed which carries no impression form but which is in the line between two consecutive beds which carry impression forms,—an impression cylinder,—means for inking the impression forms consecutively with the desired color,—and means for occasioning the continuous travel of all of the type beds first beneath said inking means and then beneath said impression cylinder.

1,349,896. VINE TURNER AND LIFTER. CHARLES T. MCCREADY, Onley, Va. Filed Dec. 19, 1919. Serial No. 346,195. 1 Claim. (Cl. 97—32.)

A vine turner attachment for cultivators comprising an arm for attachment to a cultivator side bar, a forwardly downwardly inclined extension on the lower end of said arm, a substantially horizontally disposed rear-



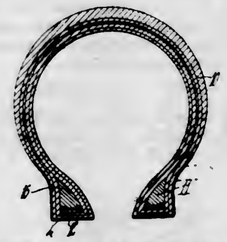
wardly extending arm on the lower end of said extension, and a substantially laterally curved upwardly inclined arm on the second named arm.

1,349,897. LIFE-FLOAT. JOHN H. MCDONAH, Boston, Mass. Filed Aug. 30, 1918. Serial No. 252,026. 5 Claims. (Cl. 9—11.)



1. A hollow tubular float construction comprising a plurality of independent tubular sections having means by which they are joined together with each section independently water-tight, comprising a flanged male end and a flanged female end on each section, the male and female ends of adjacent sections adapted to be secured together, and a connecting and separating member arranged in the connection between the adjacent sections.

1,349,898. REINFORCEMENT FOR TIRE-BEADS. MELVON A. MARQUETTE, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1919. Serial No. 288,716. 12 Claims. (Cl. 152—13.)



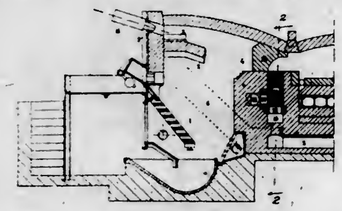
1. In a tire casing, a reinforcement for the bead thereof comprising a strip of fabric disposed circumferentially of the bead and being substantially straight in a direction transverse to the bead, said fabric having its edge portions strengthened throughout the circumference of the bead.

5. In a tire casing, a reinforcement for the bead thereof comprising a pair of reinforcing members, disposed circumferentially of the bead, and a tubular fabric inclosing such members.

1,349,899. FURNACE. MAURICE MATHY, Liege, Belgium. Filed June 26, 1919. Serial No. 307,029. 3 Claims. (Cl. 110—31.)

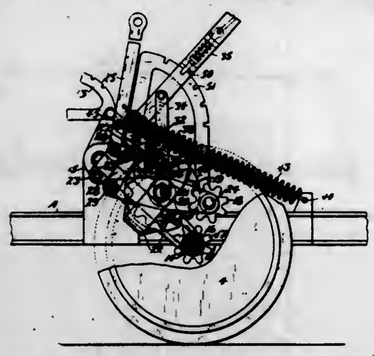
1. A reverberatory furnace having a producer for generating gas for heating the furnace, and also having a

burner for liquid fuel, and a flameless combustion burner comprising a cavity hollowed out in the hearth of the fur-



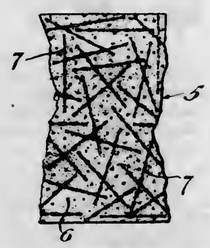
nace and filled with a mass of porous, refractory granular material, in the interstices of which a gaseous mixture is adapted to burn.

1,349,900. POWER-LIFT FOR CRANK-AXLE IMPLEMENTS. FRANCIS M. MECUM, Chico, Calif. Filed Nov. 8, 1918. Serial No. 261,727. 12 Claims. (Cl. 97—54.)



1. The combination with the main frame of a plow and a plurality of furrow openers carried thereby of a crank axle journaled on the frame, a wheel journaled on the free end of the axle, a gear fixed relative to the wheel, a second gear journaled on the crank portion of the crank axle, a connection between the second gear and frame, a lever fulcrumed concentrically with the second gear, a gear carried by the lever for connecting the first two gears, means for locking the second gear against rotation and a single means for rendering said means inoperative and said connecting gear operative.

1,349,901. FERROCONCRETE CONSTRUCTION. WILLIAM MEISCHKE-SMITH, San Francisco, Calif. Filed Dec. 16, 1918. Serial No. 267,036. 2 Claims. (Cl. 106—24.)



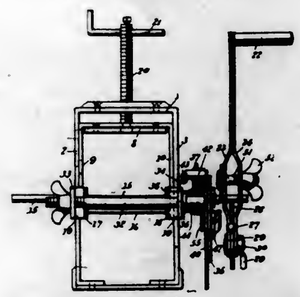
2. A ferroconcrete construction comprising a body of cement and reinforcing units distributed in indiscriminate directions throughout the cement body consisting of disconnected pieces of twisted flat steel wire having flat faces.

1,349,902. TIRE-BEAD. THOMAS MIDGLEY, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 20, 1919. Serial No. 272,107. 8 Claims. (Cl. 152—13.)



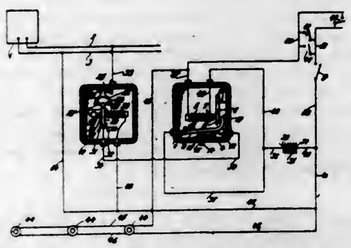
1. A tire bead comprising a plurality of anchoring members located adjacent the base of the bead, and an additional anchoring member located in staggered relation to the first mentioned members, said first-named members being separated a substantial amount at a point below the second-named member, whereby the contour of the bead is built out above the base thereof.

1,349,903. COIL-FORMING MACHINE. ALBERT W. MILLER, Riverside, Calif., assignor of one-half to Elizabeth C. Bryan, Riverside, Calif. Filed Sept. 18, 1919. Serial No. 324,646. 9 Claims. (Cl. 153—67.)



1. A coil forming machine including a mandrel, means for rotating the mandrel, means for guiding wire stock to the mandrel, a series of gage plates laterally movable to permit the insertion of the wire stock between any two of them, and means exerting a variable clamping tension on the gage plates to produce a frictional gripping tension on the wire stock.

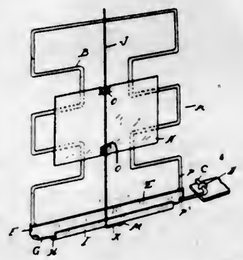
1,349,904. ALARM DEVICE. WILMER W. MILLER, Ardmore, Pa. Filed Aug. 4, 1916. Serial No. 113,035. 14 Claims. (Cl. 179—5.)



1. Alarm apparatus including in combination the main wires of a telephone system, a plurality of switches, an

electric generator in circuit with the switches, means intermediate the switches and generator for energizing the main wires of the telephone system, certain of said switches being adapted to be readily cut out of connection with the telephone system, said latter mentioned switches being included in another circuit than that in which said first switches are included; and a cut out switch included in said second switch circuit, said first mentioned switches being in connection with the telephone system at all times, substantially as described.

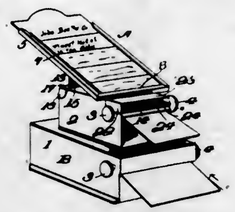
1,349,905. COPY-HOLDER. BYRON T. MILLS, Las Vegas, N. Mex. Filed Aug. 11, 1915, Serial No. 44,960. Renewed Jan. 15, 1920. Serial No. 351,558. 4 Claims. (Cl. 120—28.)



1. A copy holder, comprising a wire frame having inwardly-extending loops, one end of the wire projecting and forming a laterally-extending supporting arm terminating in a hook, a sheet metal member extending across the base of said frame having its ends looped about the side bars of the frame, and a portion of its lower edge looped about the base of the frame, said member having a laterally and upwardly-extending flange forming a channel bar.

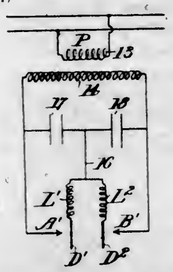
2. A copy holder, comprising a wire frame having inwardly-extending loops, one end of the wire being extended to form a laterally supporting arm, a sheet metal member extending across the base of said frame, having its ends looped about the side bars thereof and a portion of its lower edge looped about the bottom bar, said sheet metal member having an upwardly and outwardly extending flange, forming a channel bar for supporting the copy, and a resilient rod extending through an aperture in the base of said channel bar upwardly across said frame, said rod having a hook portion engaging a struck out anchor in said flange.

1,349,906. HOLDER FOR ADVERTISEMENTS AND OTHER PAPERS. RICHARD NEDDO, Norfolk, Va. Filed Aug. 2, 1916, Serial No. 112,665. Renewed Dec. 4, 1919. Serial No. 342,476. 2 Claims. (Cl. 40—146.)



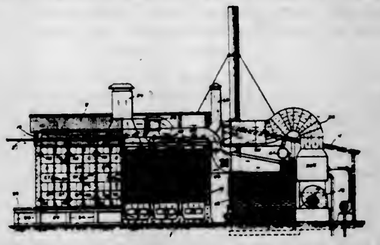
1. The herein described holder for sheets of cards or paper having a normally inclined frame plate with guide grooves and stops at the side edges and bottom arranged to provide a permanently open entrance-way at the upper end of the holder and to inclose and protect the side and bottom edges of the paper, said holder having at its lower end a relatively short vertical support projecting downward from its bottom plate and having a relatively longer downwardly projecting vertical support at points remote from its lower end, both of said downwardly projecting supports being adapted to rest upon and engage with a supporting base structure and arranged to leave the entrance to said guideways free for the insertion or withdrawal of papers.

1,349,907. APPARATUS FOR RECTIFYING ELECTRIC CURRENTS. ARTHUR F. NESBIT, Wilkinsburg, Pa. Filed Aug. 20, 1914. Serial No. 857,796. 3 Claims. (Cl. 175—363.)



1. The combination with an electrical apparatus for receiving unidirectional currents, of regulating devices, disks connected through said regulating devices to one terminal of said apparatus, electrodes placed upon opposite sides of and spaced from said disks to form spark gaps, and means connected with said electrodes for supplying alternating, oscilating or pulsating currents.

1,349,908. DEHYDRATING PLANT. LANDON E. POST and DODGE A. RIEDY, San Francisco, Calif. Filed June 9, 1919. Serial No. 302,915. 5 Claims. (Cl. 34—39.)



1. In a dehydrator, the combination of a series of chambers, trays mounted within said chambers, a common hot air supply, means for conducting said hot air to said chambers independently, trays mounted within said chambers one above the other, means for controlling the travel of heated air within said chambers, an air outlet near the bottom of said chambers passing into a central chamber, and an outlet from said central chamber to the atmosphere.

1,349,909. SULFUR-TERPENE COMPOUND. WILLIAM BEACH PRATT, Wellesley, Mass., assignor to E. H. Clapp Rubber Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 3, 1919. Serial No. 328,235. 11 Claims. (Cl. 134—26.)

1. A sulfur compound, which exhibits the following characteristics, to wit, neutral, amorphous, noncolloidal, insoluble in water, soluble in toluol and xylol, and capable of reacting with rubber.

1,349,910. WATERPROOFED FABRIC. WILLIAM BEACH PRATT, Wellesley, Mass., assignor to E. H. Clapp Rubber Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 8, 1919, Serial No. 270,228. Renewed May 3, 1920. Serial No. 378,660. 5 Claims. (Cl. 91—68.)

1. A fabric consisting of a fibrous foundation impregnated with a non-colloidal sulfur-terpene compound.

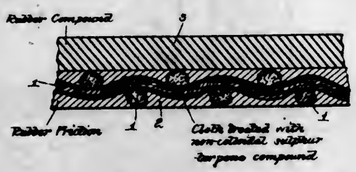
2. A fabric consisting of a fibrous thread impregnated with a non-colloidal sulfur-terpene compound.

3. A fabric consisting of a plurality of interlocked threads impregnated with a non-colloidal sulfur-terpene compound.

4. The herein described process which consists in permeating the fibers of a fibrous material with a non-colloidal sulfur-terpene compound.

5. The herein described process which consists in impregnating the fibers of a fibrous material with a solution containing a non-colloidal sulfur-terpene compound, and then removing the solvent.

1,349,911. VULCANIZED ARTICLE AND PROCESS OF PRODUCING THE SAME. WILLIAM BEACH PRATT, Wellesley, Mass., assignor to E. H. Clapp Rubber Company, Boston, Mass., a Corporation of Massachusetts. Filed May 5, 1920. Serial No. 378,942. 10 Claims. (Cl. 91—70.)



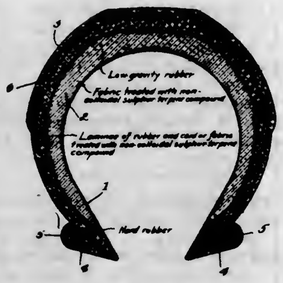
3. The herein described process which comprises treating a strip or sheet of fibrous material with a non-colloidal sulfur terpene, coating the same with a rubber compound and subjecting the same to vulcanization.

7. A new manufacture comprising rubber, a fibrous body, and a non-collodial sulfur-terpene compound bonding the rubber and fibrous body, all vulcanized together.

1,349,912. ARTICLE AND PROCESS OF BONDING METAL AND VULCANIZED RUBBER. WILLIAM BEACH PRATT, Wellesley, Mass., assignor to E. H. Clapp Rubber Company, Boston, Mass., a Corporation of Massachusetts. Filed May 5, 1920. Serial No. 378,941. 9 Claims. (Cl. 18—59.)

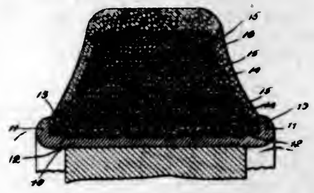
1. The herein described method of bonding vulcanised rubber and metal which comprises coating the surface of the metal with a non-colloidal sulfur terpene compound, placing thereagainst a material to be bonded to such surface and subjecting the structure to heat and pressure.

1,349,913. PNEUMATIC TIRE AND PROCESS OF MAKING THE SAME. WILLIAM BEACH PRATT, Wellesley, Mass., assignor to E. H. Clapp Rubber Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 3, 1919. Serial No. 269,468. 7 Claims. (Cl. 154—14.)



1. A method of making pneumatic tires which consists in treating a fibrous material with a non-colloidal sulfur terpene compound, forming the tire structure of rubber and said treated fibrous material, and vulcanizing said structure.

1,340,914. SOLID TIRE AND METHOD OF MAKING THE SAME. WILLIAM BEACH PRATT, Wellesley, Mass., assignor to E. H. Clapp Rubber Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 3, 1919, Serial No. 269,467. Renewed Nov. 14, 1919. Serial No. 338,116. 17 Claims. (Cl. 154—12.)



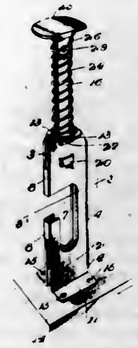
1. A tire comprising a rim, a solid rubber tread, and a layer of non-colloidal sulfur-terpene compound uniting the tread to the rim.

1,349,915. BLOCK AND BAR SHEARS. BRUNO QUAST, Cöln-Deutz, Prussia, Germany. Filed Mar. 9, 1918. Serial No. 221,573. 2 Claims. (Cl. 164—47.)



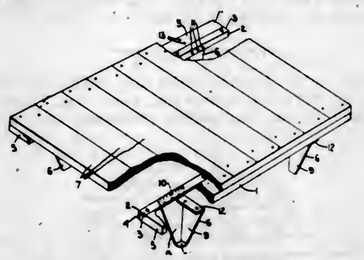
1. In a block-and-bar shearing machine, the combination with a crank shaft, of upper and lower cutter heads, a lever carrying one of the cutter heads and operatively connected with the crank shaft, a lever connected with the other cutter head, a draft bar connection between said levers, one of said levers serving as a single-armed lever for a portion of its movement and as a double-armed lever for the remainder of its movement.

1,349,916. DECAPITATOR. FRANK S. RECH, Dallas, Tex. Filed Oct. 24, 1919. Serial No. 332,983. 4 Claims. (Cl. 17—30.)



3. In a decapitator the combination of a stock consisting of parallel leaves, a web joining the back edges of said leaves and lips bridging the front edges thereof, a cutter mounted between the leaves and guided by the leaves, said web and said lips, yieldable means for holding the cutter normally raised, means for depressing the cutter, and means for limiting the movement of the cutter.

1,349,917. PLATFORM FOR USE WITH ELEVATING-TRUCKS. RAYMOND M. ROBERTS, Melrose Highlands, Mass. Filed Sept. 24, 1919. Serial No. 326,092. 7 Claims. (Cl. 248—41.)



1. In a platform for elevating trucks, the combination with two sills, each having a nailing strip extending longitudinally thereof, of legs supporting said sills, and a wooden-load-supporting portion resting on the sills and secured to the nailing strips.

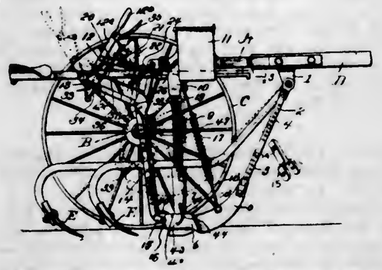
1,349,918. METHOD FOR PRODUCING METALLIC ALLOYS CONTAINING NICKEL. MICHELE N. SALVATI, Turin, Italy; Guido Beer and Arrigo Tedesco, executors of said Michele N. Salvati, deceased, assignors to Societa Anonima Stabilimenti Biak, Turin, Italy, a Company of Italy. Filed Dec. 19, 1917. Serial No. 207,853. 2 Claims. (Cl. 75—1.)

1. A method of manufacturing alloys containing nickel and zinc, consisting in first alloying together practically pure nickel and zinc and then adding the alloy thus obtained to the rest of the constituents of the final alloy.

1,349,919. PROCESS OF MANUFACTURING NITRIC ACID AND OTHER NITROGEN COMPOUNDS FROM ATMOSPHERIC AIR. JOHN F. SANDERS, Roseburg, Oreg., assignor to Frank H. Churchill and Oliver P. Coshow, Roseburg, Oreg. Filed Oct. 23, 1917. Serial No. 198,168. 9 Claims. (Cl. 23—1.)

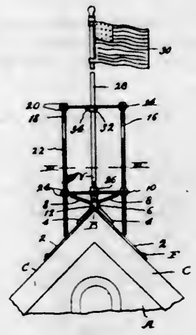
1. The process of forming oxids of nitrogen, which comprises passing a mixture containing nitrogen, oxygen and hydrogen over platinum, heated to any desired degree of incandescence by an electric current.

1,349,920. CORN-REPLANTER. PAUL T. SELLERS, Nicholasville, Ky. Filed Feb. 14, 1919. Serial No. 277,061. 2 Claims. (Cl. 111—23.)



2. The combination with a cultivator, of a planting shoe attached thereto for movement toward and away from the ground surface, means for normally holding said shoe in raised position, the shoe being provided with a seed tube, means for supplying seed to said tube when the shoe is moved into raised position, means for lowering said shoe into planting position, a valve acting to normally close the seed tube of the shoe, and means for optionally moving said valve into open position so as to discharge seed from said tube when the planting shoe is in planting position.

1,349,921. FLAGSTAFF AND SUPPORT THEREFOR. CHARLEY SHORT, Courtney, Mo. Filed May 4, 1920. Serial No. 378,846. 4 Claims. (Cl. 248—37.)



2. In an apparatus of the character described, upper and lower plates to support a flag staff, standards connecting said plates, an adjustable member connected to the lower plate, and means for securing said adjustable member to the roof of a building.

1,349,922. TIRE-VALVE CAP. ROBERT H. SIMPSON, Berkeley, Calif. Filed Sept. 29, 1919. Serial No. 327,259. 2 Claims. (Cl. 152—12.)

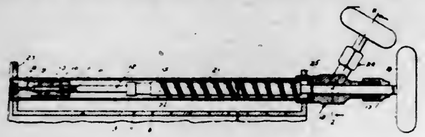


1. In combination with a tire valve stem, a sleeve upon the body portion of the stem, a cap adapted to telescope thereover and fitted with a closed threaded end into which the end of the valve stem may be screwed, a bayonet slot formed in the side of the cap, and a protrusion formed upon said sleeve for engagement with said slot.

1,349,923. GAS-GENERATOR. HARRY M. SMITH, Daly City, Calif., assignor to The Colmar Burner Company, San Francisco, Calif., a Corporation of California. Filed May 19, 1919. Serial No. 298,006. 3 Claims. (Cl. 158—53.)

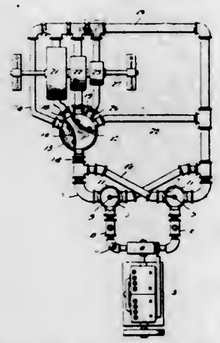
3. In a hydro-carbon generator construction, a generator casing having a fuel inlet port leading thereto and a vapor outlet port leading therefrom, a valve closure rod mounted in said casing and controlling said vapor outlet port, said valve rod having a peripheral groove arranged in a helical form, a coiled spring mounted in said groove, the ends of said spring being secured to said rod, the pe-

ripheral surface of the coils of said spring contacting with the interior surface of the generator casing, and



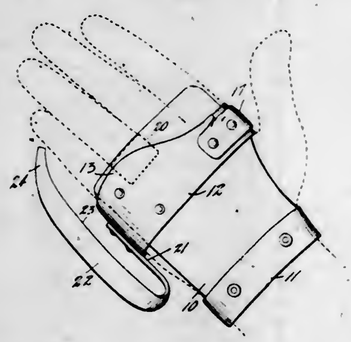
means to operate said rod, whereby on a rotation thereof the spring coils will free the interior surface of said casing of foreign matter.

1,349,924. FLUID-TRANSMISSION MECHANISM. ROBERT L. SWANSON, Red Bluff, Calif. Filed May 8, 1918. Serial No. 233,337. 2 Claims. (Cl. 60—53.)



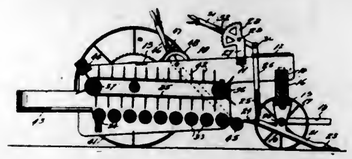
1. An apparatus of the class described, comprising a series of separated motors, of different sizes, a shaft common to all the motors, a valve casing, a pipe connecting the same with each motor, a pump, an inlet pipe connecting the same to the valve casing, a valve in said casing having its inlet end of sufficient size to permit it to remain in register with the inlet pipe while its outlet end is moved to register with any of the pipes leading to the motors, means for returning the fluid to the pump after it leaves the motor and means associated with the last mentioned means for permitting the fluid to pass through the idling motors.

1,349,925. HAND-HARVESTER. JOSEPH S. TAYLOR, Pilot Point, Tex. Filed Jan. 12, 1920. Serial No. 350,745. 1 Claim. (Cl. 30—9.)



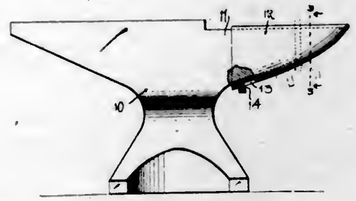
A hand harvester, comprising a plate to be arranged in the palm of the hand and extending transversely of the palm, means to secure the plate in place upon the hand, a cutting blade provided at its rear end with a shank bent back upon the blade and spaced therefrom in substantial parallel relation, said cutting blade extending longitudinally of the hand at the inner edge thereof when the palm is arranged uppermost and spaced therefrom for providing a longitudinal passage having its forward end open, said blade being transversely inclined and having its upper longitudinal edge sharpened, the sharpened edge being arranged approximately in the plane of the plate and the forward end of the blade being extended laterally, the blade being adapted to cut by pulling it toward said plate, and means for securing the shank to the plate.

1,349,926. SOD CUTTING AND DISINTEGRATING MACHINE. ROBERT L. THOMPSON, Troup, Tex. Filed May 10, 1920. Serial No. 380,264. 6 Claims. (Cl. 55—1.)



1. In a machine of the character described, a wheel supported frame, an inclined elevator, a forward truck supporting the frame and carrying the elevator, a plow attached to the front end of the elevator, a plurality of disintegrating rollers mounted in the frame and extending rearwardly with relation to the elevator, a rearwardly traveling disintegrating member passing over the rollers, means for removing material from said member mounted at the rear end of the frame, and a discharge element mounted at the rear end of the frame for discharging the material removed from the disintegrating member.

1,349,927. ANVIL ATTACHMENT. HARRY TROUTS, Bridgeport, Conn. Filed Sept. 25, 1918. Serial No. 255,642. 1 Claim. (Cl. 78—7.)

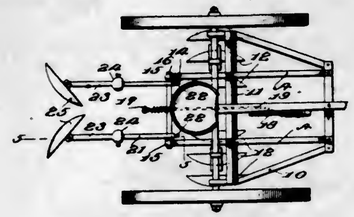


As an article of manufacture an attachment for an anvil comprising a hollow tapering body of an external outline the shape of the horn of an anvil, and an internal outline and size to snugly fit the horn of an anvil, the outer face of the body having a longitudinal groove extending through the smaller end of the body and terminating adjacent the larger end of the body, and a screw engaged through the last-named end of the groove, said grooved portion of the body being thicker than the remainder thereof.

1,349,928. LEVELING ATTACHMENT. HERBERT F. UNRUH, Meno, Okla. Filed June 24, 1919. Serial No. 306,310. 1 Claim. (Cl. 97—34.)

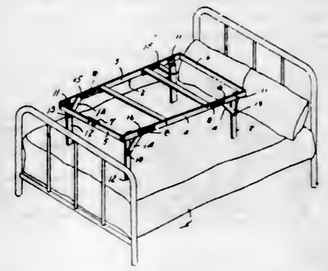
A ridge leveling attachment for an agricultural machine, the same comprising a pair of brackets whereof each includes an open triangular body for attachment to the frame of such machine, arms projecting rearwardly from the body, and bearings carried by said arms, a rock shaft journaled in said bearings, an arm rising therefrom,

a lever connected by a link with said arms for adjusting the position of the shaft, trailing arms adjustably mounted on said rock shaft, other arms carrying ridge-breaking



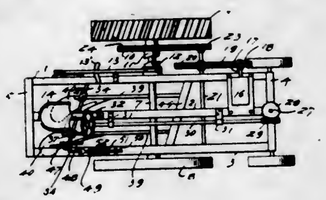
and leveling implements, and ball-and-socket joints between these arms and the trailing arms whereby their angles thereto may be adjusted.

1,349,929. CANOPY FOR BEDS. CARL L. VAN TUYL, Bison, Kans. Filed Nov. 15, 1916. Serial No. 131,423. 1 Claim. (Cl. 5—14.)



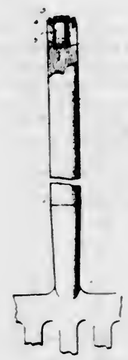
A canopy support comprising a rectangular frame constructed from a single length of material bent to form side and end members and said material having its ends disposed in engagement with each other and located in one of the end members and at a point intermediate the ends thereof, means securing the ends of said material together and disposed on the inner face of the last named end member, said side members having elongated slots adjacent their ends and terminating in arcuate shaped slots that form shoulders in one of the ends of said elongated slots, legs pivoted to said side members at their ends, braces pivoted to said legs, and headed pins secured to said braces and extending through and slidable in said slots and adapted to engage the shoulders to prevent collapsing of said legs when positioned on a bed to support the frame in spaced relation thereto.

1,349,930. TRACTOR. CHARLES J. WHITE, Pawnee, La. Filed Aug. 15, 1919. Serial No. 317,738. 1 Claim. (Cl. 180—26.)



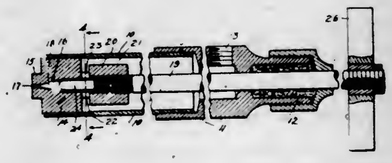
In a tractor, a main supporting frame, an axle rotatably mounted thereon, a ground wheel mounted on said axle at one end thereof for free rotation, a main drive wheel secured on the axle at the other end thereof, means for optionally rotating the axle to propel the tractor, an axle mounted at the front of the frame and rockable about a vertical axis, front ground wheels mounted on said front axle at each end thereof for steering purposes, the front axle being less in length than the rear axle and pivoted at a point midway between its ends to the frame, at a point located in a plane lying parallel with the first mentioned ground wheels, said plane being disposed at a distance from the rear furrow ground wheel equal to one half of the length of the front axle whereby one of the front wheels is located in advance of and in line lying between the rear wheels and the rear furrow ground wheel tracks with the other front wheels, and means for rocking said front axle about its axis for modifying or neutralizing the tendency of the main drive wheel to turn the tractor about the ground wheel loosely mounted on said axle.

1,349,931. TOOL-HANDLE OILER. WALTER WILSON, Meridian, Idaho, assignor of one-half to Raymond Barnum, Nampa, Idaho. Filed Jan. 3, 1920. Serial No. 349,334. 4 Claims. (Cl. 145—61.)



1. In combination with a tool handle provided at its free end with a longitudinally extending cylindrical opening, a cylinder for containing oil adapted to be inserted in said cylindrical opening so as to leave a space between said cylinder and the walls of said opening, said cylinder provided with a plurality of apertures in its side walls, means for closing one end of said cylinder and means provided for attaching said cylinder to said tool handle.

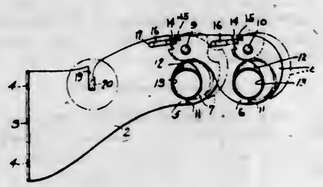
1,349,932. HYDROCARBON-GENERATOR. MATTHIAS S. YEAGER, San Francisco, Calif., assignor to The Colmar Burner Company, San Francisco, Calif., a Corporation of California. Filed Jan. 29, 1919. Serial No. 273,832. 2 Claims. (Cl. 158—120.)



1. In a gas generator, a cylindrical casing, a gas outlet plug in the discharge end of said casing, a bearing formed integrally with the inner end of said plug and being provided with a screw threaded aperture therethrough, the

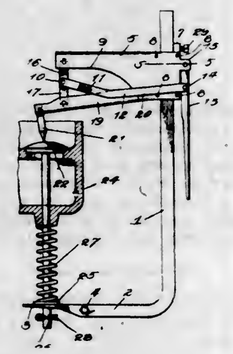
diameter of said bearing being less than the diameter of the plug, whereby to form an annular passage for the gas generated by said generator when the plug is mounted therein, said bearing being provided with a pair of inlet openings, said openings communicating with the bore of said plug, a valve rod mounted within said casing and being in screw threaded engagement with the threaded bearing formed on the plug, and means to operate said valve rod to open or close the discharge outlet formed in the plug.

1,349,933. SHADE, CURTAIN, AND DRAPERY HOLDER. HUGO C. ZEITZ, Monessen, Pa. Filed Jan. 29, 1920. Serial No. 354,985. 6 Claims. (Cl. 156—22.)



6. A bracket for curtain rods and the like comprising a base plate of sheet material having a downwardly and forwardly extending projection forming a recess, a curved jaw member pivotally attached to the said base plate adjacent to the said recess, the said jaw member being provided at its upper end with a plurality of notches, and a locking detent or pawl pivotally secured to the said base plate and adapted to enter any one of the said notches.

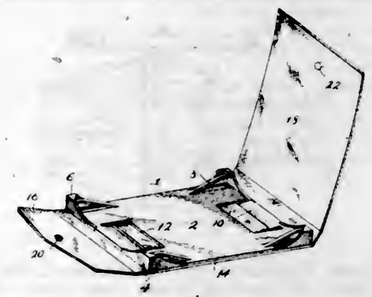
1,349,934. VALVE-SPRING LIFTER. EBER CHARLES AUSTIN, Wahoo, Nebr. Filed May 29, 1919. Serial No. 300,656. 5 Claims. (Cl. 29—87.1.)



1. A tool for the purpose set forth, the combination of a standard, a body extending laterally from the standard, an arm pivoted to the body, a presser pin carried by the free end of said arm, toggle members pivoted to the body and the said arm, respectively, and pivotally connected to each other, links extending from the pivotal connection between the toggle members, and a hand lever fulcrumed upon the body and pivoted to said links.

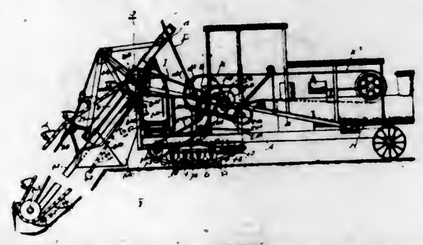
1,349,935. CARD-HOLDER. JOHN H. BENDER, Kansas City, Mo. Filed July 22, 1919. Serial No. 312,611. 3 Claims. (Cl. 129—35.)

1. In a device of the character described, a frame consisting of a back plate adapted to support a plurality of cards, corner members on said back plate adapted to abut the corners of the cards, top plates on said corner



members, and spring members struck from the back plate to press the cards upwardly and hold the uppermost card in engagement with said top plates.

1,349,936. TRENCHING-MACHINE. HANS J. BENTSON, La Jolla, Calif., assignor to Frederick C. Austin, Chicago, Ill. Filed Jan. 10, 1913. Serial No. 741,208. 1 Claim. (Cl. 37—24.)



A trenching machine comprising a body frame, a transverse shaft on said body, at the rear thereof, a swinging support, a digging beam depending from said shaft, movable in a vertical plane to vary the depth below ground of the lower end thereof, and to permit raising of such beam above ground, an endless belt mounted to travel up and down said support, operated by said shaft, excavating buckets on said belt, mechanism for rotating said shaft, carried on said body, means for receiving the dirt from said buckets, mounted on said body, said buckets being disposed in parallel series, at opposite sides of the ditch, the buckets of one series being staggered relative to those of another series, and said support comprising an upper frame which is wider than said belt, mounted to tilt on said shaft, a lower frame which is narrower than said belt, secured to said upper frame, the said buckets all passing between the sides of said upper frame, but extending outside of the lower frame.

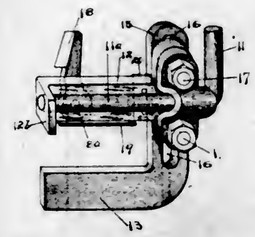
1,349,937. PUZZLE. WILLIAM A. BICKINGS, Detroit, Mich. Filed Mar. 15, 1919. Serial No. 282,788. 3 Claims. (Cl. 46—41.)



2. A puzzle comprising a bottom plate having a pocket formed therein, a pair of upper plates pivoted on said bottom plate and provided with interlocking projections

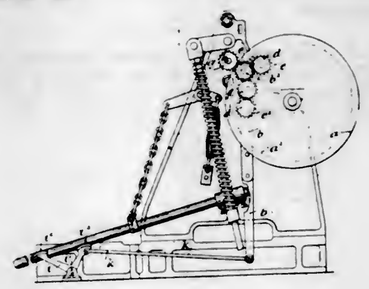
and recesses, the opposed edges of said upper plate being cut away at one point to permit turning of said upper plate in one direction upon their pivots, and means for normally locking said upper plate in one position upon said bottom plate.

1,349,938. LUGGAGE-RACK. CLINTON F. BLAKE, Portland, Oreg. Filed Sept. 24, 1919. Serial No. 326,077. 6 Claims. (Cl. 224—29.)



1. In a luggage rack, a plurality of clamps each consisting of a pair of parallel jaws, means to adjust the distance between said jaws and to positively secure the same at the desired distance one from the other, a clamping device secured to one of said jaws, and bearings upon the other of said jaws; in combination with a rack of lazy tong construction consisting of a plurality of flat bars diagonally disposed, a plurality of round bars diagonally disposed, feet upon each of said round bars normal thereto and adapted to be mounted within said bearings of said clamps.

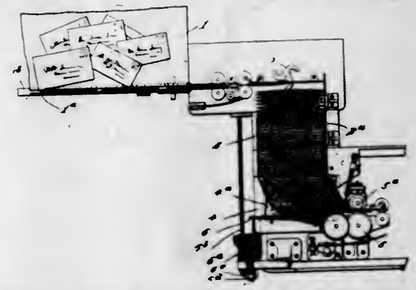
1,349,939. MECHANICAL OR POWER-ACTUATED HAMMER. WILLIAM BLACKER, Staleybridge, England. Filed Mar. 29, 1919. Serial No. 285,984. 5 Claims. (Cl. 74—58.)



1. In combination with a hammer and a screw-threaded shaft for causing its lateral traverse, a gear wheel on said shaft turning therewith, a reversing lever carrying a gear wheel in mesh therewith, additional gear wheels of a reversing system carried by said lever and permanently meshing with the second gear above mentioned, friction disks turning with the latter wheels, a driving friction wheel engaging one or the other of said disks, according to the position of said lever, to turn said shaft in either direction as chosen, a doubly acting treadle, and means for connecting said treadle to said lever in order that the lateral traverse of the hammer may be reversed while the machine is working and while the operator's hands are employed in controlling the hammer.

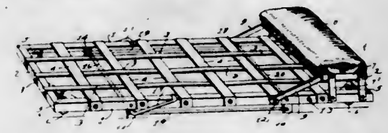
1,349,940. APPARATUS FOR SORTING, POSTMARKING, AND CANCELING MAIL. WALTER H. BOWES, Greenwich, Conn. Filed Sept. 7, 1918. Serial No. 253,065. 12 Claims. (Cl. 101—240.)

2. In apparatus for sorting and canceling mail mechanically; the combination of a sorting table having a letter discharge channel or chute in which the letters are moved edgewise; and a stacker wheel adjacent the end of such channel; a canceling machine having canceling mechanism through which the letters are passed edgewise; said canceling machine being arranged with a



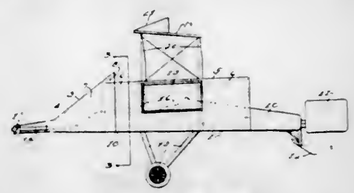
downwardly inclined chute adapted to receive letters from the sorting channel and direct them to the canceling machine, the letters being automatically fed by the stacker from the sorting table channel to and through the chute to the canceling machine.

1,349,941. AUTOMOBILE-CREEPER. WILLIAM J. BROOME, Los Angeles, Calif. Filed Jan. 26, 1920. Serial No. 354,292. 4 Claims. (Cl. 5—4.)



2. A creeper comprising a bed having parallel side rails, a pair of spaced legs pivoted to each of said rails, connecting rods between the legs on each side of said bed, a transverse member pivotally connecting one leg of one pair with the opposite leg of the other pair, and operating means at the side of said bed adapted to engage said rails at opposite extremes of action for holding said legs parallel with and vertical to said rails.

1,349,942. FLYING-MACHINE. JOHN H. CARR, Alhambra, Calif. Filed Jan. 3, 1919. Serial No. 270,423. 15 Claims. (Cl. 244—12.)

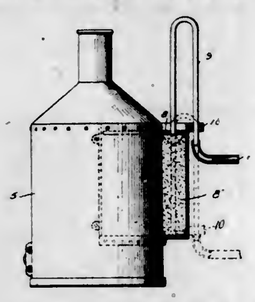


1. An airplane having main planes for sustaining the vehicle in flight, diagonally disposed side planes extending rearwardly from the front thereof and an inclined plane connecting said main and side planes, as described.

1,349,943. HEATING APPARATUS. DAVID P. CLEVELAND, Dallas, Tex., assignor to Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Filed July 7, 1919. Serial No. 309,219. 3 Claims. (Cl. 34—21.)

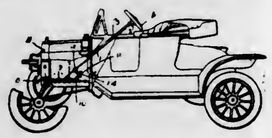
3. In apparatus of the character described, a heating shell, a drying chamber carried thereby and vertically ar-

ranged, a follower operating within the drying chamber and having an opening formed therein passing through the upper and lower surfaces of the same, a goose neck having one end secured within the opening, a guide block



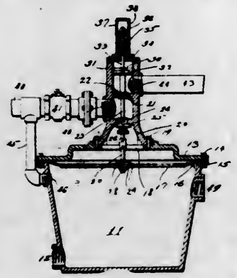
secured to the outer arm of the goose neck near its lower end and slidably engaging the exterior of the drying chamber, and a flexible suction conduit secured to the outer arm of the goose neck beneath the guide block.

1,349,944. AUXILIARY-SPARK-LEVER CONTROL. LESLIE J. COOPER, Los Angeles, Calif. Filed Jan. 14, 1919. Serial No. 271,099. 2 Claims. (Cl. 123—186.)



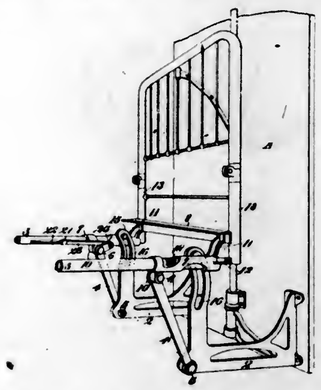
1. A spark adjusting mechanism for motor vehicles comprising in combination with the motor, and a main spark adjusting rod connected with said motor, of an auxiliary spark adjusting member having one of its ends extended in front of the vehicle and arranged for manual operation and a portion operably connected with said main spark adjusting rod, the extended end of said auxiliary member being spaced and detached from the starting crank and adapted to operate said main spark rod, whereby the spark may be advanced or retarded apart from said main rod.

1,349,945. GAS-REGULATOR. JOHN DENTON and ALVA L. SKINNER, Bridgeport, Ill. Filed Oct. 23, 1919. Serial No. 332,758. 4 Claims. (Cl. 137—153.)



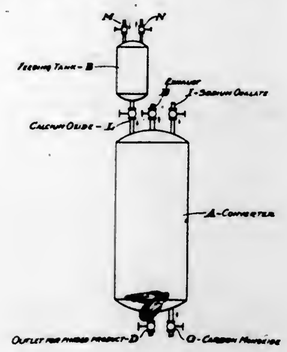
1. In a regulator of the type described, the combination with a pressure chamber, a diaphragm therein, a valve casing including a cylinder, a partition, and a seat between them, an inlet line entering a casing between the seat and partition and branched to the pressure chamber, and an outlet line leading from the casing between the seat and cylinder; of a valve coacting with the seat, a piston movable in said cylinder, a stem connecting the valve and piston, a stuffing box in said partition, and a second stem connected with the valve and leading through the stuffing box to said diaphragm.

1,349,946. FOLDING BED. NAPOLEON B. DOUGLASS, Berkeley, Calif. Filed Sept. 11, 1916. Serial No. 119,444. 10 Claims. (Cl. 5—54.)



1. In a folding bed, an up-ending main frame, up-standing swinging fulcrum supports for the head-end of the main frame arranged to swing downwardly and outwardly when the bed is unfolded, extensions on the upper ends of the fulcrum supports, guide means to control the head-end of the bed in its movement, helical coil springs extending parallel with the side rails of the main frame connected at one end thereto and at the other end to the extensions on the fulcrum supports for counterbalancing the main frame.

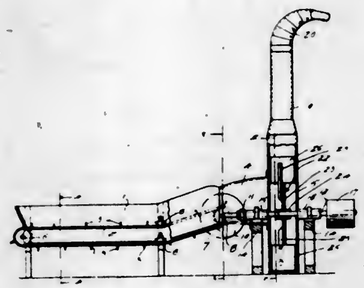
1,349,947. PROCESS FOR MAKING CALCIUM OXALATE. FRANCIS M. DUPONT and GUSTAV A. HANKE, Milwaukee, Wis. Filed Mar. 18, 1919. Serial No. 283,397. 5 Claims. (Cl. 23—24.)



1. That step in the process of producing calcium oxalate and sodium formate which consists in subjecting a mixture of sodium oxalate in solution and suspension, milk of lime and carbon monoxid to heat and pressure.

1,349,948. GRAIN-ELEVATOR. WALDEMAR E. ECHTERLING, Crete township, Will county, Ill. Filed Oct. 2, 1917. Serial No. 194,356. 1 Claim. (Cl. 302—8.)

A grain elevator comprising a blower casing, a blower shaft extended transversely through said casing, supporting means for said shaft, a discharge spout extended upwardly from said casing, a conveyer extended at an angle to said casing, said casing having an entrance opening, a conveyer within said conveyer casing and having end shafts, a comparatively large friction disk mounted on one of said end shafts of the conveyer, a comparatively small friction disk mounted on the blower shaft and adapted to drive the comparatively large disk, said com-



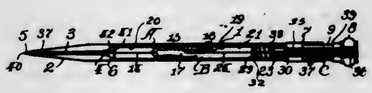
paratively small friction disk being adjustable transversely of said comparatively large friction disk to vary the speed of rotation thereof, a blower mounted on the blower shaft within the first mentioned casing, said conveyer being adapted to convey material into the blower casing by way of the inlet opening thereof, and a drive wheel mounted on the said blower shaft to be driven from a suitable source of power.

1,349,949. RAILWAY-TIE AND FASTENER. CICERO J. ERB and WALTER J. BRIANT, Centralia, Wash. Filed Oct. 9, 1919. Serial No. 329,550. 3 Claims. (Cl. 238—75.)



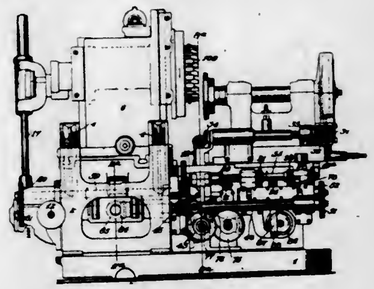
1. A railway tie and clamp comprising a hollow tie having openings formed adjacent each end, tongues struck from the tie and having openings therethrough, a clamping bar having one end passing through the opening in the tie and the opposite end passing through the opening in the tongue, and means carried by the clamping bar for engaging the top of the tongue and adjusting the clamping bar.

1,349,950. PENCIL. HOWARD L. FISCHER and FRANK J. KRISTOFEK, St. Paul, Minn. Filed Oct. 30, 1917. Serial No. 199,234. 18 Claims. (Cl. 120—17.)



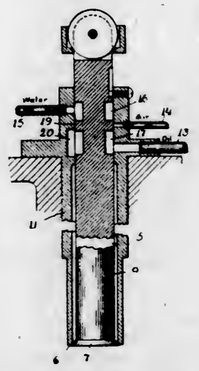
14. In a pencil of the class described having a barrel a lead ejecting means which is adapted to eject a lead a degree at a time and means for collectively holding said ejecting means with its operating parts in operative position in, or out of, said barrel.

1,349,951. METHOD OF AND MACHINE FOR CUTTING GEARS OR WHEELS. JAMES E. GLEASON and ARTHUR L. STEWART, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Dec. 26, 1914. Serial No. 879,026. 43 Claims. (Cl. 90—4.)



1. The method of cutting a gear or wheel which consists in moving a tool in a curved path in a plane substantially tangent to the pitch surface of the gear to be produced to shape the tooth, imparting a continuous indexing movement to the blank, and simultaneously rolling the blank on its pitch surface to generate the tooth.

1,349,952. INTERNAL-COMBUSTION ENGINE. FRANK S. HAMMOND, New York, N. Y. Filed Aug. 11, 1919. Serial No. 317,351. 2 Claims. (Cl. 123—25.)

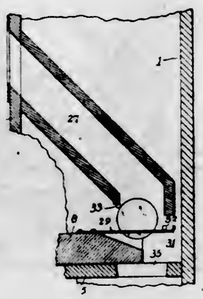


1. An internal combustion engine comprising a cylinder, a piston reciprocative therein, a sleeve communicating with the interior of the cylinder, a valve having an elongated stem slidable in said sleeve, the sleeve having a recess, the stem having two annular grooves, a fuel oil supply through said sleeve to the lower annular groove, a water supply through said sleeve to the upper annular groove when the valve is closed, and a compressed air supplying means to the upper annular groove when the valve is open, said recess being disposed for putting both said grooves into communication when the valve is open.

1,349,953. COIN-CONTROLLED VENDING-MACHINE. HARRY HANSON, Watertown, Mass., assignor to Select Service Company, Boston, Mass. Filed Sept. 26, 1918. Serial No. 326,663. 2 Claims. (Cl. 194—57.)

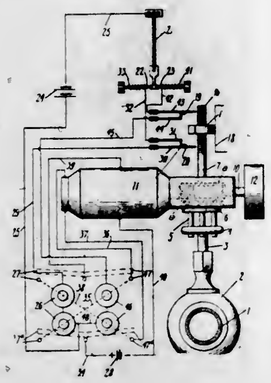
1. A coin controlled machine comprising a slidable article-removing member, a fixed stop, a leaf spring supported at one end by said member and having a hooked

free end adapted normally to engage said stop, said spring having an opening disposed to partially receive a designated coin, and a stationary device, whereby, a designated coin being deposited in said opening, the withdrawal of



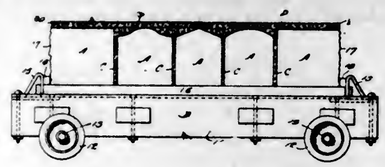
the article-removing member will cause the spring to press the coin against the stationary device and to be itself sufficiently depressed to permit its hooked end to freely pass said fixed stop.

1,349,954. ELECTROTHERMOSTATIC-CONTROLLED MECHANISM. EDWARD VASSALLO HARTFORD, Deal, N. J. Filed May 27, 1915. Serial No. 30,840. 4 Claims. (Cl. 236—78.)



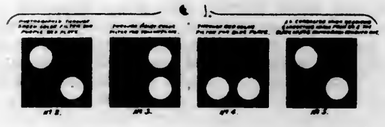
1. In combination with a reciprocatory valve, an electric motor coöperatively associated therewith, an energizing circuit for said motor, a thermostat in said circuit adapted to control the operation of the motor and adapted to control its direction of rotation, an electromagnetic contact in said energizing circuit and coöperating with said thermostat to maintain positive connection therewith, switching instrumentalities in said circuit, means operated by the motor and coöperating with the switching instrumentalities to control the extent of motor rotation and to release the thermostat from the electromagnetic contact, and means for storing kinetic energy whereby the motor may operate for a brief period after the circuit has been opened.

1,349,955. METHOD OF PRODUCING DUPLICATE PATTERNS IN GRANITE. JOHN HARWOOD, Berea, Ky., assignor of one-half to John D. McColm, Huntington, W. Va. Filed May 11, 1916. Serial No. 96,810. 15 Claims. (Cl. 125—12.)



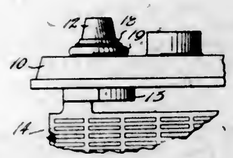
6. A method of producing duplicate patterns in granite, which consists in arranging a plurality of pieces of stock in spaced relation, placing a filler therebetween, and sawing the mass.

1,349,956. COLOR-FILTER NEGATIVE AND THE PROCESS OF PREPARING SAME. JOSEPH ARTHUR HENRY HATT, Brooklyn, N. Y. Filed Dec. 28, 1918. Serial No. 268,617. 9 Claims. (Cl. 95—2.)



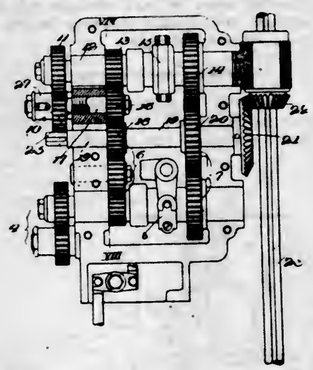
1. The process which consists in preparing a photographic negative from a picture by exposure through a certain color filter, developing the plate so produced and superposing above said developed surface a new photographically sensitive surface, placing the design of the first layer in exact photographic registry with the image of a negative made from the original picture but through a different color filter then making an exposure, and then developing and fixing the image in said new sensitive surface whereby a corrected color separation negative suitable for transfer to a printing plate is obtained.

1,349,957. BATTERY-TERMINAL FASTENING. ALDA F. HAWKINS, Fort Worth, Tex. Filed Apr. 5, 1920. Serial No. 371,458. 6 Claims. (Cl. 204—29.)



3. In a battery terminal fastening, the combination with a cell cap having an opening, of a terminal post extending through the opening and having a stop element at its lower end to engage beneath the cap, said post extending outwardly beyond the cap and provided with a radially projecting flange spaced from the cap, said post having an annular recess beneath the flange, said recess being curved in cross section and having its upper portion increasing in radial dimension toward the cap, and an elastic ring arranged between the flange and cap in contact with the curved wall of said recess, said ring being circular in cross section.

1,349,958. INTERCHANGEABLE POSITIVE AND FRICTION DRIVE AND REVERSIBLE GEARING FOR MACHINE-TOOLS. ERNEST C. HEAD, Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa., a Corporation of Pennsylvania. Filed Nov. 10, 1917. Serial No. 201,246. 27 Claims. (Cl. 74—59.)



1. An interchangeable positive and friction drive for machine tools, comprising a feed element, a driving element, means adapted to be frictionally-driven for transmitting motion from said driving element to said feed element, means adapted to be positively-driven for transmitting motion in either direction of shaft rotation from said driving element to said feed element, and means to selectively interpose either of said frictionally-driven or positively-driven means in the drive of said feed element.

2. An interchangeable positive and friction drive for machine tools comprising a feed element, a driving element, means adapted to be frictionally-driven for transmitting motion from said driving element to said feed element, and means adapted to be positively-driven for transmitting motion in either direction of shaft rotation from said driving element to said feed element, said frictionally-driven and positively-driven means being selectively interchangeable in the drive of said feed element.

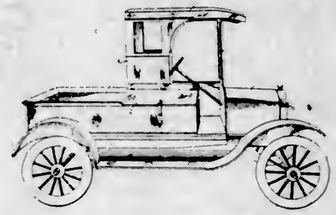
3. An interchangeable positive and friction drive for machine tools comprising a feed element, a driving element, means for frictionally driving said feed element from said driving element, means for positively driving said feed element from said driving element in either direction of shaft rotation, and a transposable member for selectively interposing either of said means in the drive of said feed element.

4. In a machine tool, a feed element, a driving element, and a train of gearing adapted to transmit motion from said driving element to said feed element, said train of gearing comprising a frictionally-driven shaft, a positively-driven shaft, and a transposable gear adapted to be mounted on either of said shafts in motion-transmitting relation to said train whereby said feed element may be driven through a friction drive or a positive drive.

5. In a machine tool, a feed element, a driving element, and a train of gearing adapted to transmit motion from said driving element to said feed element, said train of gearing comprising a frictionally-driven shaft, a plurality of positively-driven reversely-rotating shafts, and a transposable gear adapted to be mounted on any of said shafts in motion-transmitting relation to said train whereby said feed element may be driven through a friction drive or in either direction through a positive drive.

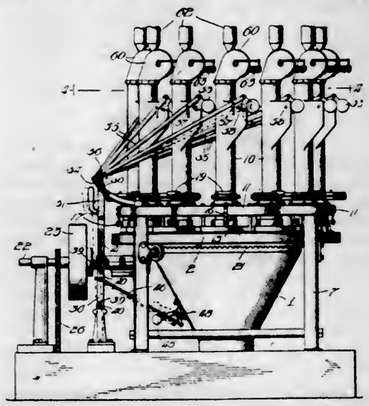
1,349,959. VEHICLE-BODY. FREDERIC M. HOBLITT, New York, N. Y. Filed Apr. 6, 1920. Serial No. 371,731. 5 Claims. (Cl. 296—37.)

5. In a vehicle body, a single operator's seat extending from one side partly across the body, a top above said seat having side walls inclosing said seat, a windshield of a width corresponding to said seat, a dash, and a receptacle extending from said seat to the other side of the



body and having a cover inclined sharply downward toward said last named side of the body, said receptacle and cover also extending forwardly of the seat to partly shut off the space between the seat and dash.

1,349,960. MACHINE FOR MIXING POWDERED OR GRANULAR MATERIALS. GEORGE HOEPNER, Chicago, Ill. Filed July 26, 1919. Serial No. 313,554. 14 Claims. (Cl. 83—73.)

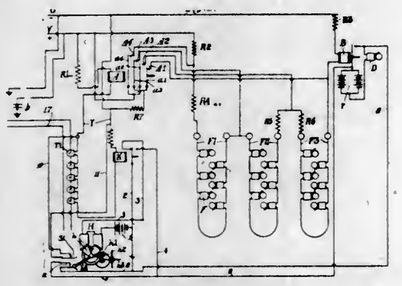


1. In a machine of the character described, a rotatable table, delivery spouts arranged above and projecting down in proximity to the top of the table, each spout being open at the bottom and having a section removed on one side at the lower end to permit it to discharge laterally in the direction in which the table is traveling, and an adjustable gate associated with the lower end of each spout and adapted to vary the area of the lateral-discharge opening.

1,349,961. SIGNALING SYSTEM. RICHARD M. HOPKINS, New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 20, 1916. Serial No. 126,649. 8 Claims. (Cl. 177—367.)

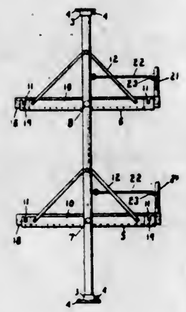
1. In a signaling system, the combination with a source of current supply and a transmitter circuit containing one or more transmitters, of a signal giving circuit including one or more signal-giving devices, means controlled by said transmitter circuit and controlling said signal-giving circuit and arranged to cause the signal-giving device or devices to operate in the event of operation of one of the said transmitters, means for passing a low test current through said signal-giving circuit normally, a trouble signal device arranged to operate in the event of sub-

stantial or complete failure of said test current, and means controlled by said transmitter circuit and also controlling said trouble signal device and arranged to stop the opera-



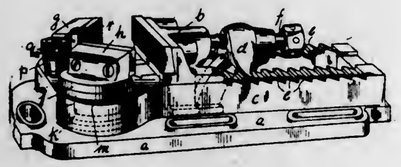
tion of said signal-giving device or devices and to cause the operation of said trouble signal device, in the event of development of trouble in the transmitter circuit.

1,349,962. BUNK. CARL G. JANSON and CHARLES J. BRAUN, Oakland, Calif. Filed July 9, 1918. Serial No. 244,029. 4 Claims. (Cl. 5—60.)



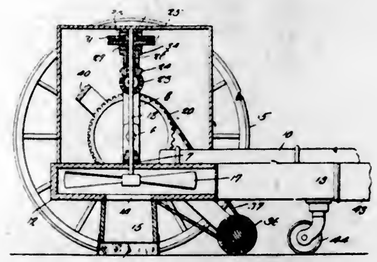
4. A bed of the kind described comprising a single head-post and a single foot-post, transversely extending supporting members one secured at an intermediate portion thereof to each post, respectively, a pair of brace arms secured to each post, the arms of each pair having connection respectively with the opposite ends of a supporting member, and a mattress frame adapted to extend between said posts and to rest on said supporting members.

1,349,963. MACHINE OR OTHER VISE. JAMES HENRY JERRIM, Bromsgrove, England. Filed June 26, 1919. Serial No. 306,971. 5 Claims. (Cl. 81—17.)



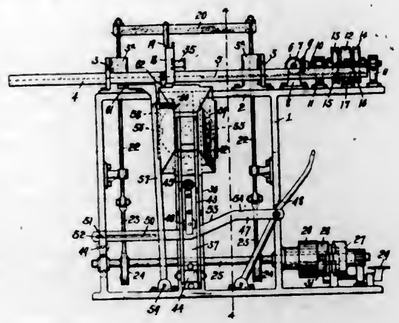
5. A machine vise comprising in combination a body, a platform thereon, a movable jaw, means for rapidly setting said jaw in relation to said body, means for finely adjusting said jaw, a pair of elements mounted on said platform on pivots parallel to the said jaw, gripping faces on said elements and said jaw, said faces each having an inclined surface engaging an incline on the jaw or the element as the case may be, screws in said faces passing through slots in said jaw or element, springs around said screws to draw said faces against the element or jaw, a conical collar on each element and a conical clamping member between said elements located so as to engage the conical collar of each.

1,349,964. VACUUM CLEANING-MACHINE. OLIVER A. KALBFUS, Baltimore, Md. Filed Sept. 27, 1919. Serial No. 326,905. 1 Claim. (Cl. 15—17.)



1. In a street cleaning machine, a frame, a pair of ground wheels supporting the frame, a suction casing carried by the frame and having separate compartments located alongside each other, an outlet trunk extending forwardly from said compartments, a caster wheel supporting the forward end of the trunk, a draft pole attached to the trunk, suction heads extending downwardly from the aforesaid compartments, fans operating in the compartments, a rotary brush located beneath the aforesaid outlet trunk and operating in front of the suction heads, and driving means for the fans and the brush operated by the aforesaid ground wheels.

1,349,965. BASKET-NAILING MACHINE. OTTO HENRY KILMER and PETER MADISON, Oak Harbor, Ohio. Filed June 2, 1919. Serial No. 301,185. 8 Claims. (Cl. 147—47.)



1. In a machine of the class described, a rotatable work-holding form, clamping means for relative work releasing and engaging movements relative to the form and for rotary movements therewith, and means operable to impart predetermined vertical movements to the form and clamping means.

1,349,966. BRAZING AND WELDING COMPOUND AND METHOD OF PREPARING SAME. JOZEF KLEIN, New York, N. Y. Filed June 24, 1920. Serial No. 391,497. 4 Claims. (Cl. 204—29.)

1. The method of preparing a compound for use in uniting metals consisting of slaking one part of quick lime in half its weight of water, adding a small quantity of sand, spreading four parts of melted borax flat on a warm steel plate, spreading the dried mixture of slaked lime and sand on the melted borax, cooling and removing the resulting compound from the plate, melting the compound, then again cooling and grinding and mixing with one part of iron filings.

1,349,967. ADJUSTABLE CUTTER. FREDERICK H. KORFF, Brooklyn, and STARLING H. HUMPHREY, New York, N. Y. Filed May 29, 1919. Serial No. 300,678. 12 Claims. (Cl. 29—103.)



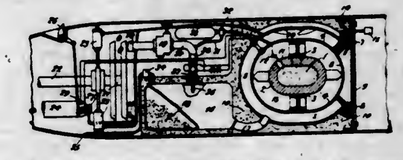
1. In a cutter, the combination of a plurality of cutter parts, means for holding said parts in operative position and an adjusting means carried by one of the parts and adapted to cause a change in the distance between the effective cutting edges upon the relative movement of the cutter parts.

1,349,968. EXPANSION-REAMER. STARLING H. HUMPHREY, New York, and FREDERICK H. KORFF, Brooklyn, N. Y. Filed May 29, 1919. Serial No. 300,679. 2 Claims. (Cl. 77—73.5.)



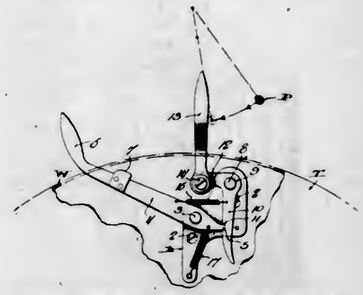
1. An expansion reamer including a spindle, blades mounted upon said spindle and radially movable with respect thereto, screw threads formed upon such spindle, a graduated member mounted upon such screw threads and being adapted to bear against said blades, and to cause a movement on the part of the same, a collar mounted upon such spindle and adjacent to such graduated member, said collar having associated with it indicating means adapted to register with the markings upon said member, said collar being formed with an inwardly projecting tongue adapted to extend into a longitudinal groove formed transversely through such screw threads, whereby to permit only a longitudinal movement on the part of such collar, and means for holding such collar at all times during the operation of such reamer, against said graduated member.

1,349,969. POWER GENERATION. WARD G. LEATHERS, Haworth, N. J., assignor to Submarine Arms Corporation, New York, N. Y. Filed May 8, 1917. Serial No. 167,309. 18 Claims. (Cl. 60—40.)



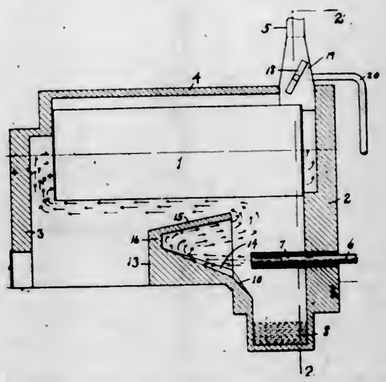
1. A power generator comprising a heat producing material, a pressure chamber adapted to contain a fluid to be heated by said material, and an insulating means between the pressure chamber and said material.

1,349,970. AUTOMATIC PHONOGRAPH-STOP. CLIFFORD H. LENERVILLE, Peshtigo, Wis. Filed Jan. 3, 1920. Serial No. 349,271. 1 Claim. (Cl. 74—46.)



An automatic stop comprising an attaching plate, a brake bar pivoted intermediate its ends to the plate, one end forming a latch bar engaging member, the other end comprising a resetting arm, a bell crank shaped latch bar pivoted to the plate and having means carried by one arm for coöperation with said latch bar engaging member, a spring fixed to said arm of the latch bar and to the brake bar between the pivot thereof and said resetting arm, a second spring of greater tension than the first having one end attached to the brake bar between the pivot thereof and said latch bar engaging member, and thereunder being fixed, and a trip arm on one arm of the latch bar.

1,349,971. FURNACE. JOHN URBAN MCDONALD, Decatur, Ill. Filed Sept. 15, 1919. Serial No. 323,810. 5 Claims. (Cl. 110—28.)

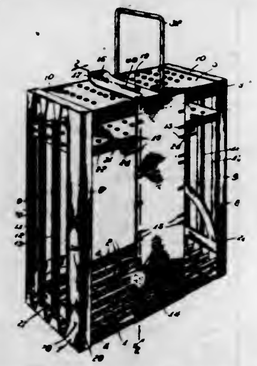


3. A boiler furnace for burning powdered fuel comprising a front wall extending up to the boiler, a rearwardly tapering ignition chamber spaced from the front wall and

facing it and a combustion chamber between them, an injector for fuel and air extending through said wall and partially across the combustion chamber, the bottom of the ignition chamber being inclined downwardly toward the front wall and so positioned relative to the injector that the blast of incoming fuel will strike it at an acute angle.

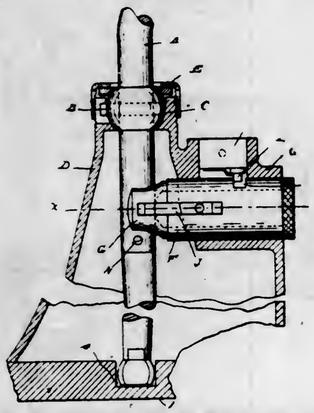
4. An ignition chamber for furnaces adapted to receive a blast of fuel and air comprising a rear wall, a bottom sloping up to a rear wall and an arch resting on said bottom and sloping down to the rear wall, the upper surface of the bottom being in two parts sloping down toward each other and toward the central vertical plane of the structure.

1,349,972. PHOTOGRAPHIC-PLATE RACK. GLENN J. MACDOWELL, Chicago, Ill., assignor to Burke & James, Inc., Chicago, Ill., a Corporation of Delaware. Filed Oct. 6, 1919. Serial No. 328,897. 6 Claims. (Cl. 95—100.)



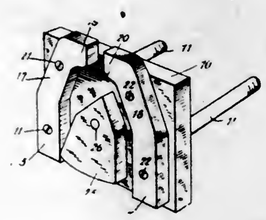
1. A photographic plate rack adapted for immersion in a developing tank or the like comprising two opposed members equipped with guides to receive and engage opposite edges of plates and transversely disposed walls operatively engaged with said members and having slots through which plates are adapted to be inserted into said guide grooves, the said slots in opposed walls being disposed in staggered relation to each other and registering with alternate pairs of opposed guide grooves.

1,349,973. GEAR-SHIFT LOCK. GUADON C. MATHER, Detroit, Mich. Filed Mar. 26, 1917. Serial No. 157,425. 6 Claims. (Cl. 70—128.)



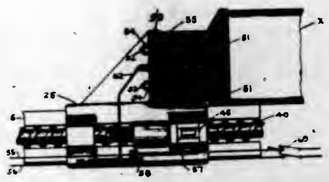
2. The combination with a housing for gear-shifting mechanism and a control lever fulcrumed thereon and projecting therein, of a bar slidable in a bearing in said housing in a direction transverse to the plane of initial movement of said lever from its neutral position, said bar having its inner end located below the fulcrum of said lever and adapted for engagement with said lever to hold the same in neutral position, and means upon said lever and engageable with said bar for holding said lever from outward longitudinal movement when said bar is in engagement with said lever.

1,349,974. DIE-SHIFTER. SOLOMON MENKIN, New York, N. Y. Filed May 21, 1919. Serial No. 298,693. 5 Claims. (Cl. 79—5.)



1. In a button making machine, a laterally movable die-carrying block, means for reciprocating said block vertically, a member projecting from one side of the die block, and a guiding device adapted to engage said member to move said block a fixed distance in opposite directions laterally upon respective up and down strokes of the said means.

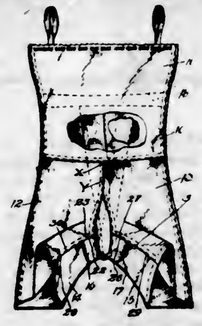
1,349,975. METAL-PUNCHING MACHINE. JOHN D. MORGAN, Summit, N. J., assignor to Steel Utilities, a Corporation of New York. Filed May 26, 1919. Serial No. 300,008. 12 Claims. (Cl. 164—87.)



1. In a machine for operating upon metal plates or beams, a carriage traveling under control of a distance determining device, a head fixed to said carriage and in engagement with the work, means impelling the work against said head and means for magnetizing said head to prevent rebound or displacement of the work relatively to the head.

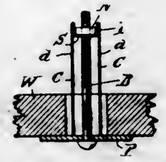
1,349,976. UNDERGARMENT. HARRY S. MOSES, Hubbard Woods, Ill. Filed Aug. 14, 1919. Serial No. 317,443. 1 Claim. (Cl. 2—144.)

An undergarment of the union-suit type comprising a body-portion formed of front and back sections sewed together at their side edges, the front section being formed from a single unsevered unitary piece of relatively inelastic fabric, leg portions the front of each being formed from a single piece and having their upper edges secured to the lower edge of the front body section, and overlapping crotch-forming members forming an opening and secured to the inner edges of said leg portions, the free edges



of said crotch-forming members being substantially parallel from the apex of the crotch with the lower portion of said side seams.

1,349,977. WALL BOLT-HOLDER. JOHN J. MULKERN, Cambridge, Mass. Filed Aug. 2, 1919. Serial No. 314,923. 3 Claims. (Cl. 85—2.4.)



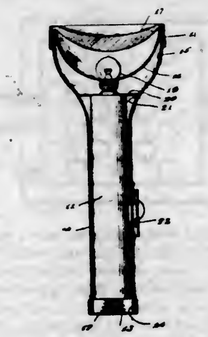
3. A wall-bolt holder, consisting of a pair of flexible metal strips each of which is bent near its middle portion at right angles to its length, to form a seat for the bolt-nut, with a hole through the seat for the bolt, and beyond such seat a portion of each end of each strip being bent backward upon itself thus forming projections which engage the sides of the nut, and having the inner surface of the strips creased between the seat and the ends of the bent back portions, to determine the location of their maximum expansion when caused to collapse and engage the encompassing wall, by the force of the nut upon the seat when drawn inward by the action of the screw bolt.

1,349,978. CONVERTIBLE PLATE FOR ELECTRICAL PLUG-RECEPTACLES. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies Inc,. Waterbury, Conn., a Corporation. Filed Sept. 20, 1919. Serial No. 325,210. 1 Claim. (Cl. 247—23.)



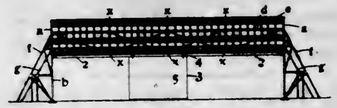
A door-unit for the conversion of plates for electrical plug-receptacles of the screw-plug and push-plug types, the said unit consisting of a closure-plate and a leaf to which the same is secured and which is perforated for the reception of one of the screws by means of which the plate is secured to the receptacle.

1,349,979. ELECTRIC DARNING-BALL. LUCINDA RITTER, Riverside, Calif. Filed Apr. 10, 1920. Serial No. 372,765. 3 Claims. (Cl. 240—8.5.)



3. A darning device comprising a casing containing an electric lamp, means for holding a battery in coöperative relationship with said lamp, and a concave lens arranged at the end of said casing over said lamp with its concave face outwardly.

1,349,980. RELATING TO STRUCTURES. THOMAS EDGAR RICHARDS, London, England. Filed Apr. 1, 1919, Serial No. 286,631. Renewed July 10, 1920. Serial No. 395,340. 7 Claims. (Cl. 20—0.5.)



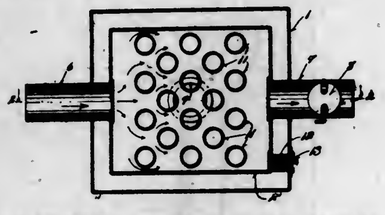
1. In a structure for housing aeroplanes, in combination, a main ridge member, side ridge members, braces therefor, eave purlins, braces for the whole, end trusses supporting the ends of the ridge and the braced roof whereby a clear open space is left from end to end.

1,349,981. MARINE PROPELLER. EDWARD SIEVART, Manitowoc, Wis. Filed Mar. 3, 1919. Serial No. 280,472. 2 Claims. (Cl. 170—159.)



1. A propeller comprising a hub portion, an annular wall portion extending from the hub portion and disposed in a plane at right angles to the axis of the hub portion and a plurality of blades extending radially from said annular wall portion and having their major portions curved transversely whereby they are disposed obliquely with respect to the plane of the annular wall portion, said blades having obliquely undercut rear surfaces on their inner portions merging with the blade wall portion whereby to direct water transversely of the hub portion.

1,349,982. HEATING APPARATUS. EDWARD SHEVART, Manitowoc, Wis. Filed Mar. 29, 1919. Serial No. 286,206. 2 Claims. (Cl. 257—166.)

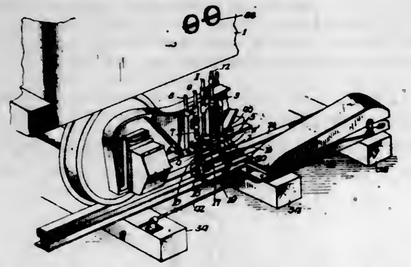


1. A heating unit comprising an outer casing, an inner casing therein and spaced from the walls thereof, a plurality of parallel rows of open ended fluid passageways disposed in the inner casing, their opposite ends being secured in the opposite sides of the inner casing to communicate with the space between the casings, the corresponding passageways of the several rows also forming parallel rows disposed in planes at right angles to the planes of the first mentioned rows, an inlet pipe extending through the outer casing and communicating with the inner casing, an outlet pipe from the inner casing and extending through the outer casing, said pipes being adapted to convey hot gases through the inner casing, a fluid inlet into the outer casing, and a fluid outlet from the outer casing.

1,349,983. PROPELLANT EXPLOSIVE. OSWALD SILBERRAD, Buckhurst Hill, England. Filed Sept. 10, 1919. Serial No. 322,947. 16 Claims. (Cl. 52—3.)

16. A "flameless powder" as hereinbefore defined composed substantially of a mixture of nitrocellulose 30.7%, nitroglycerin 44%, vaseline 3.9% and starch 21.4% as hereinbefore described.

1,349,984. RAILWAY SAFETY DEVICE. AMOS HOFFMAN SIMMS, Chicago, Ill. Filed July 22, 1916. Serial No. 110,770. 6 Claims. (Cl. 246—192.)



6. A trip for safety devices for railway trains comprising a fixed lower member, an upper member pivoted at one end to the lower member and having an inclined upper surface, means for holding the free end of the upper member normally in elevated position, and an auxiliary member extending lengthwise of the upper member adjacent the free end thereof and having a sloping surface on its outer side.

1,349,985. PUSH-POLE FOR LOCOMOTIVES. LAWRENCE V. STEVENS, Pittsburgh, Pa. Filed Nov. 1, 1919. Serial No. 335,082. 4 Claims. (Cl. 213—19.)



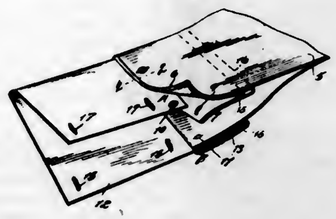
3. In a push pole, in combination, a pole, a fork formed of a bent bar pivotally attached at its angle to the end of the pole.

1,349,986. TRAIN-OPERATED RAILWAY-GATE. MICHAEL STRELCHIK, Glenfield, N. Y. Filed July 10, 1919. Serial No. 309,928. 2 Claims. (Cl. 246—302.)



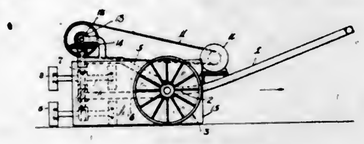
1. In a train-operated railway gate, the combination with a post, of a gravity opened gate hinged thereto, a rotatable member, an actuating bar pivoted to said rotatable member and said gate, track-trips in front of said gate, a connection between said track-trips and said rotatable member, trip locking means movable with said track-trips, depressible members in rear of said gate, a connection between said depressible members and said rotatable member, means in engagement with said locking member for disengaging the same from said trips, a connection between said depressible members and said last-mentioned means, depressible members in rear of said trips, and means actuated by said last-mentioned depressible members for causing said trips to move out of the path of the wheels of a train moving from said gate toward said track-trips.

1,349,987. DETACHABLE CUFF FOR SHIRT-SLEEVES. ISADORE N. STRUMPH, New York, N. Y. Filed July 29, 1919. Serial No. 313,972. 1 Claim. (Cl. 2—79.)



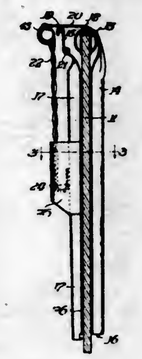
A sleeve provided with a plurality of flap-members, said flap-members being formed by folding the material at the free end of the sleeve upon itself first inwardly, then outwardly intermediate the ends of the inwardly folded portion of the sleeve, then inwardly intermediate the ends of the outwardly folded portion of the first named inwardly folded portion, the folded over portions being secured together and to the sleeve at a point somewhat removed from the end of the sleeve to provide separable flap-members, a cuff arranged to be inserted along a longitudinal edge thereof, between said flap-members and means to releasably secure the cuff and flap-members together.

1,349,988. SAND-CUTTING MACHINE. HOWARD L. WADSWORTH, Cleveland, Ohio. Filed Dec. 12, 1919. Serial No. 344,415. 5 Claims. (Cl. 259—144.)



1. In a machine of the character described, the combination of a frame, a pair of supporting wheels therefor, a rotary sand-cutting element mounted on said frame on one side of the axis of said wheels, and a handle attached to said frame on the other side of said axis from said cutting element.

1,349,989. WINDSHIELD-CLEANER. JOHN F. WHITE, Chicago, Ill., assignor, by mesne assignments, to White Products Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 12, 1917. Serial No. 191,080. 4 Claims. (Cl. 15—59.)



1. In a device of the character described, the combination of a slidable clip for spanning the upper edge of the glass of a windshield, a pair of cleaning members carried by the clip one bearing on the outside and the other on the inside of the glass, the inner member being hingedly connected to the clip so as to be capable of movement out of parallelism with the outer member, and a spring having a sliding bearing on the inner member in its medial portion to press the same against the glass in opposition to the outer member, the contacting faces of the members faced with yielding wiping elements.

2. In a device of the character described, the combination of a slidable clip for spanning the upper edge of the glass of a wind shield, a pair of cleaning members carried by the clip one bearing on the outside and the other on the inside of the glass, the inner member being linked to the clip so as to be capable of moving out of parallelism with the outer member and at each end toward and from such outer member, and a spring having a sliding bearing on the inner member in its medial portion to press the same against the glass in opposition to the outer member, the contacting faces of the members faced with yielding wiping elements.

3. In a device of the character described, the combination of a slidable clip for spanning the upper edge of the glass of a wind shield, a pair of cleaning members carried by the clip one bearing on the outside and the other on the inside of the glass, the inner member being linked to the clip so as to be capable of moving out of parallelism with the outer member and at each end toward and from such outer member, an operating handle for the inner member comprising elements horizontally spaced to provide a vertical channel therebetween, a suitably anchored spring carried by the device with its free end disposed within the channel to slidably bear against the inner cleaning member to press the same against the glass in opposition to the outer member, the contacting faces of the members faced with yielding wiping elements.

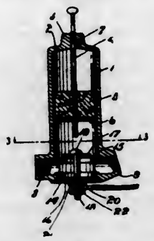
4. In a device of the character described, the combination of a slidable clip for spanning the upper edge of the glass of a wind shield, a pair of cleaning members carried by the clip one bearing on the outside and the other on the inside of the glass, the inner member being linked to the clip so as to be capable of movement toward and from the outer member while maintaining parallelism therewith, and a spring having a bearing on the inner member near its middle portion to press the same against the glass in opposition to the outer member.

1,349,990. TIRE-SPREADER. STEPHEN B. WILBUR, Akron, Ohio. Filed May 15, 1920. Serial No. 381,685. 8 Claims. (Cl. 152—27.)



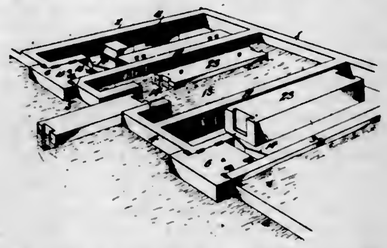
1. In a device of the class described, a central member, two side members, each end of said central member pivotally connected to the central portion of one of said side members, similar ends of each side member provided with means to engage the bead edge of a tire and means to swing said side arms on said central member and force said similar ends apart.

1,349,991. OIL-ALARM DEVICE. FLOYD G. WITHROW, Grand Rapids, Mich. Filed Mar. 12, 1919. Serial No. 282,233. 2 Claims. (Cl. 200—84.)



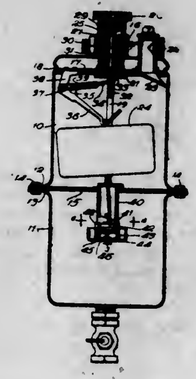
1. A device of the character described comprising a hollow housing having a closed upper end, a rod which constitutes one contact and which passes loosely down through said upper end of the housing, a float attached to the rod, a disk of insulating material in the lower end of the housing, a second disk positioned above the first disk and supported within the housing, the second disk also being of insulating material, a screw which constitutes the other contact, has a head at its upper end, passes downwardly through the disks and receives a nut at its lower end to bind the disks against disengagement from the housing, and inlet and outlet means at opposite sides of the housing whereby liquid may pass into the housing, between the disks and out at the opposite side, or upwardly into the housing, the second disk being cut away to provide passage for the liquid into the housing, substantially as described.

1,349,992. PLANT FOR CONCRETE CONSTRUCTION. JOSEPH STOKES WILLIAMS, Riverton, N. J. Filed Jan. 22, 1913. Serial No. 743,431. 10 Claims. (Cl. 61—64.)



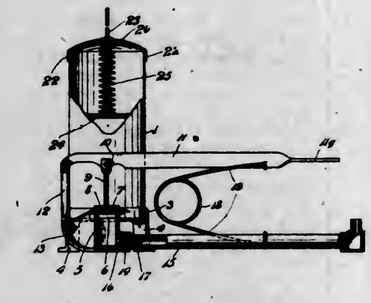
10. A plant of the character stated, in combination with a subway line opening into it and having its walls in waterproof union with the walls of the plant.

1,349,993. VACUUM-TANK. LYNN A. WILLIAMS, Evanston, Ill. Filed June 14, 1918. Serial No. 239,946. 14 Claims. (Cl. 158—36.)



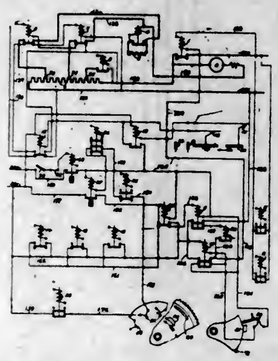
1. A vacuum tank comprising a storage receptacle, a suction receptacle located above said storage receptacle, a pipe for affording communication between said receptacles extending downwardly in said storage receptacle and having its lower end in a substantially horizontal plane, a disk valve for closing the lower end of said pipe having a central ring shaped projection on the lower side, and a pin having a rounded head received in said ring shaped projection to pivotally support said disk valve adjacent the lower end of said pipe.

1,349,994. GREASE CONTAINER AND DISPENSER FOR HEAVY GREASES. A. J. WOOD, Greenville, Mich., assignor to Bennett Injector Company, Muskegon, Mich., a Corporation of Delaware. Filed Apr. 13, 1917. Serial No. 161,754. 7 Claims. (Cl. 221—80.)



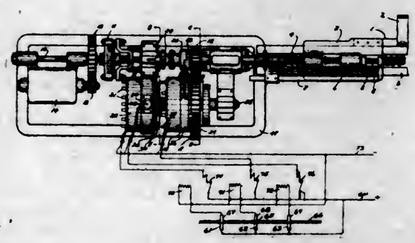
1. In a device of the character described, a container for grease, a smaller auxiliary container for grease adjacent the bottom of the first container and in communication therewith, a cover for said first container, means for detachably securing the cover in place on said container, a follower to lie above the grease, a rod attached thereto extending upwardly through the cover, a coiled spring normally under compression around the rod and located between the follower and cover to force grease from the container into the auxiliary container, means mounted to move downwardly in the auxiliary container and force grease therein out of the same, there being an outlet opening adjacent the bottom of the auxiliary container, and check means in said outlet permitting passage of the grease in an outward direction but stopping return thereof, substantially as described.

1,349,995. CONTROLLING SYSTEM FOR METAL-WORKING MACHINES. EDWARD V. WURTS, Newark, and BERTRAM S. PERO, Jersey City, N. J., assignors to Steel Utilities, Incorporated, a Corporation of New York. Filed Sept. 24, 1917. Serial No. 193,011. 51 Claims. (Cl. 164—115.)



1. A controlling and operating mechanism for a metal punching machine including in combination a work progressing motor, circuit controlling devices cooperating with a distance record sheet and devices in circuit with said controlling devices operating to start, accelerate, retard and stop said motor in accordance with the reading of the distance record sheet.

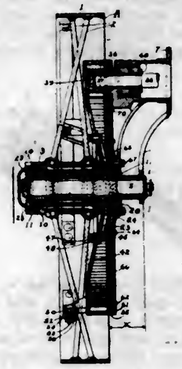
1,349,996. DISTANCE-DETERMINING MECHANISM FOR METAL-WORKING MACHINES. EDWARD V. WURTS, Newark, N. J., assignor to Steel Utilities, Incorporated, a Corporation of New York. Filed Feb. 11, 1918. Serial No. 216,660. 20 Claims. (Cl. 164—87.)



1. A distance determining device controlling the feed of the work in a metal working machine and including in combination a plurality of members moving proportionately to the travel of the work, settable devices cooperating with said proportionately moving members, and means for holding a proportionately moving member during a resetting of the settable means.

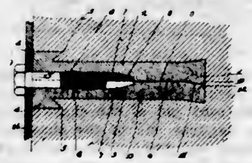
1,349,997. SELF-PROPELLED VEHICLE. CHARLES J. ALLEN, Moorestown, N. J., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed June 24, 1919. Serial No. 306,293. 6 Claims. (Cl. 180—70.)

1. In a self-propelled vehicle, the combination of a stationarily supported axle, a sleeve surrounding said axle and rotatable relative thereto, a gear in operatively fixed relation with said sleeve, means for rotating said gear, a wheel having a plurality of chord-like members operatively connected to said gear, and means whereby the operative



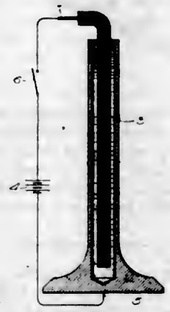
position of said members may be reversed with respect to said gear and said axle to vary the width of the tread of said vehicle.

1,349,998. EXPANSION-BOLT. HENRY W. AYLWARD, Brooklyn, N. Y. Filed Sept. 10, 1918. Serial No. 253,388. 13 Claims. (Cl. 85—2.4.)



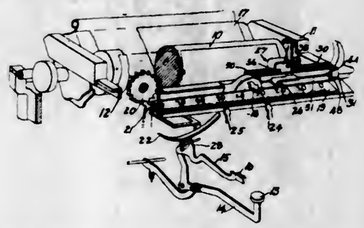
13. A device of the character described comprising two members of substantially cylindrical cross section and adapted to be placed side-by-side to produce a substantially cylindrical structure, a head on each member, each head having a semi-circular cutting edge whereby the structure may be caused to enter a refractory material, and means for distorting the members to intimately engage the refractory material in which the structure is inserted, there being means on the peripheries of the members to resist withdrawal of the structure.

1,349,999. PROCESS OF AMALGAMATING STEEL BODIES. CLARENCE W. BALKE, Highland Park, Ill., assignor to Pfanstiehl Company, Inc., North Chicago, Ill., a Corporation of New York. Filed May 31, 1918. Serial No. 237,459. 2 Claims. (Cl. 204—1.)



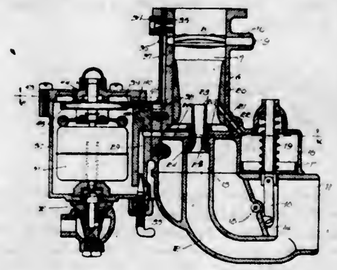
2. The method of amalgamating the inner surfaces of a hollow steel valve stem or other hollow steel body which consists in mixing a minor quantity of mercuric chlorid salt with a major quantity of hydrochloric acid to form an electrolyte solution, filling the hollow steel body to be amalgamated with said electrolyte solution, inserting an electrode into said solution in spaced relation to the walls of said steel body and then causing an electric current to flow from said electrode through the electrolyte solution to said steel body.

1,350,000. TYPEWRITING-MACHINE. HARRY BATES, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 15, 1919. Serial No. 282,891. 24 Claims. (Cl. 197—187.)



1. In a typewriting machine, the combination with a typewriter frame and a traveling carriage, of a revoluble platen, a scale on the frame, a pointer upon the carriage adapted to normally occupy one position upon the carriage, and a counting device for moving said pointer step by step to another point on the carriage.

1,350,001. CARBURETER. CLIFFORD C. BRADBURY, Oak Park, Ill., assignor to Curtis B. Camp, Oak Park, Ill., and Lynn A. Williams, Evanston, Ill., joint trustees. Filed June 26, 1919. Serial No. 306,831. 6 Claims. (Cl. 158—36.)



1. In a vacuum feed carbureter the combination of a fuel chamber, means for producing a partial vacuum in said chamber for the purpose of lifting fuel thereto, valve mechanism for regulating the vacuum in said chamber and curved gage tubing responsive to the vacuum produced in said chamber for operating said valve.

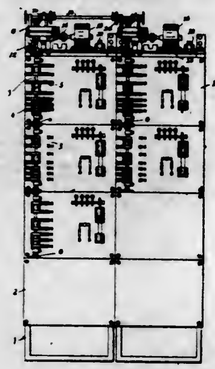
1,350,002. DENTAL SEPARATING OR GRINDING DISK. GILDEROY O. BURLEW, Newark, N. J. Filed Oct. 21, 1918. Serial No. 259,005. 1 Claim. (Cl. 32—13.)



The combination with the frame of a dental tool, and a separating strip mounted therein, of a metal strip also

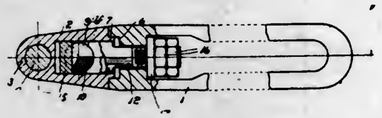
mounted in said frame and rigidly secured to said separating strip, the longitudinal edge of the metal strip being in advance of the longitudinal edge of the separating strip.

1,350,003. ELECTRIC CONTROLLER. EMIL J. CARROLL, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 23, 1916. Serial No. 133,061. 8 Claims. (Cl. 175—298.)



1. An electric control board unit, comprising a panel body, a rotary shaft thereon, machine controlling switches on said panel body operated by said shaft, said shaft terminating at opposite edges of the panel body, and couplings on the ends of the shaft for operatively connecting it to adjacent shaft members.

1,350,004. JOURNAL ADJUSTMENT FOR ARMS OF MULTIPLE-SPINDLE DRILLS. EDGAR W. CLEVELAND, Holland, Mich. Filed Sept. 29, 1919. Serial No. 327,105. 9 Claims. (Cl. 77—24.)



1. In a device of the character described, an arm, a journal member mounted at one end of the arm, said journal member having a vertical opening therein, a rod located in said opening, studs, one at each end of the rod projecting from the journal member through the arm, interengaging means between the ends of the rod and said studs for turning the rod about its vertical axis and simultaneously moving one stud as the other stud is moved but in an opposite direction, and nuts on the free ends of the studs for binding the journal member to the arm, substantially as and for the purposes described.

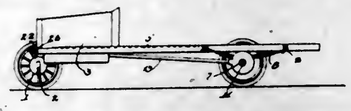
1,350,005. POWER-DRIVEN HAIR-CLIPPER. CLYDE O. CONNOR, Wichita, Kans., assignor of one-half to Dean Harr, Wichita, Kans. Filed Jan. 23, 1920. Serial No. 353,486. 3 Claims. (Cl. 30—1.)

3. In a power driven hair cutting device, a hollow stock, a stud integral with said stock; a gear wheel, carrying a crank, rotatably mounted on said stud; a pinion fixedly fastened to a flexible driving shaft housed in said stock, engaging said gear wheel; a lower cutting blade, fixedly fastened to said stock, a slotted upper blade slidably positioned upon said lower blade and lugs on the lower blade engaging within slots in the upper blade; a bolt upwardly projecting from the base of said stock, an oscillatable shaft pivotally mounted on said bolt; said shaft at its upper end having an elongated slot and within which slot the crank of the gear wheel is operatively positioned; the lower end of said shaft engaging within a slot in the upper blade; a cap plate fixedly covering said stock, a



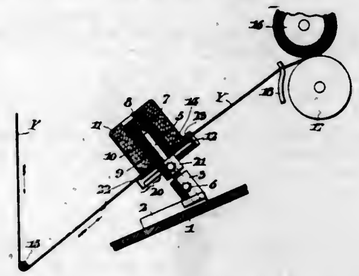
spring plate attached to said cap plate; a housing cover mounted upon the shaft pivot bolt, said cover having two bearing lugs in contact upon said upper blade and a third lug in contact upon said spring plate and a nut on said bolt above said cover adjustable thereon for the purposes specified.

1,350,006. TRUCK ATTACHMENT FOR AUTOMOBILES. ALBERT E. COOK, Chicago, Ill. Filed Oct. 11, 1917. Serial No. 195,930. 8 Claims. (Cl. 180—16.)



1. A truck attachment comprising in combination with a car chassis, a truck frame, a mechanism for connecting the frame to the front end of the chassis, a pivot suspension between the rear end of the chassis and truck frame, truck wheels and axle, a differential on the axle driven from the car engine, and springs supporting the truck frame on the truck axle.

1,350,007. YARN-WAXING DEVICE. THOMAS CUNNINGHAM, Philadelphia, Pa. Filed Nov. 14, 1919. Serial No. 337,931. 6 Claims. (Cl. 91—36.)



1. A yarn waxing device comprising a holder freely rotatable about an inclined axis, and adapted to sustain a cake of wax in such manner as to be held by gravity in contact with the yarn being coated, the inclination of the structure serving to modify the effect of gravitation so that only a very slight pressure is maintained upon the yarn.

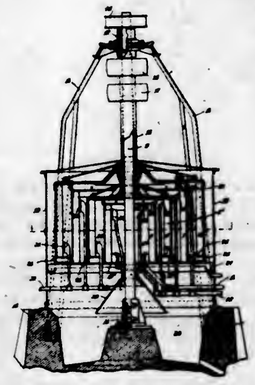
1,350,008. HANGER OR COUPLING. JACOB DAVIS, Cleveland, Ohio. Filed Jan. 10, 1919. Serial No. 270,457. 8 Claims. (Cl. 285—14.)

1. In a device of the character described, the combination of a casing, a pair of sockets mounted in the casing and forming an annular space therein, insulating material filling the space within the casing around said sockets,



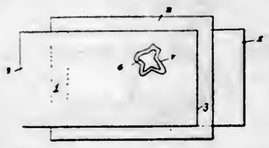
and means for connecting one of said sockets to the casing, said means forming an end wall for the annular space.

1,350,009. CENTRIFUGAL CLARIFIER. ANTONIO M. DEL VALLE, New York, N. Y. Filed Aug. 16, 1919. Serial No. 317,880. 7 Claims. (Cl. 233—18.)



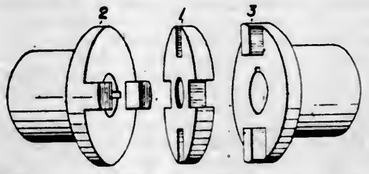
5. In a clarifying machine, a plurality of concentrically arranged cylindrical pans, means of communication between said pans, means for introducing liquid into the inner pan, means for collecting the clarified liquid from the outer pan and means for removing the scum from the liquid in each pan.

1,350,010. SELF-PROTECTING CONDENSER. WILLIAM DUBILIER, New York, N. Y. Filed Jan. 16, 1918. Serial No. 212,096. 12 Claims. (Cl. 250—41.)



1. A self-protecting condenser or protective device comprising foil armatures and intervening non-inflammable dielectric, said armatures being so thin that upon rupture of the dielectric material the material of an armature recedes from the margin of the rupture to a distance preventing conduction between the armatures on opposite sides of said dielectric.

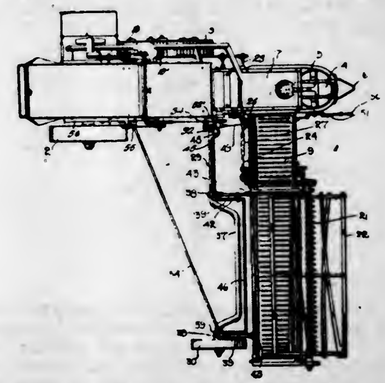
1,350,011. FLEXIBLE-COUPLING DISK. CLARENCE L. DU BOIS, Camden, N. J. Filed Feb. 26, 1919. Serial No. 279,258. 1 Claim. (Cl. 64—96.)



A flexible-coupling disk provided with peripheral notches extending clear through it and having parallel side walls,

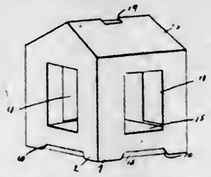
and provided with a fiber lining for the working walls of the notches, whereby the coupling can run without oil, substantially as described.

1,350,012. HARVESTER. THOMAS DUGAN, Wichita, Kans., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation. Filed Dec. 14, 1918. Serial No. 266,773. 10 Claims. (Cl. 56—20.)



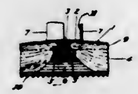
1. In a combined harvester and threshing machine, the combination with a threshing machine, and a harvester disposed transversely with respect to the threshing machine, of means for supporting the harvester from the threshing machine and permitting relative turning movement thereof in a horizontal plane, and means for operating the harvester from the threshing machine, said operating means being extensible to permit the said relative turning movement of the harvester.

1,350,013. FEEDING DEVICE FOR POULTRY. GEORGE C. EATON, Norwich, N. Y. Filed Apr. 14, 1919. Serial No. 289,968. 3 Claims. (Cl. 119—61.)



1. In a device of the character described a cover being open at the bottom to permit free placing of the same over, and removing from, a container, having side-walls with feed-openings and cut away at the bottom for access of air against the container and having a ceiling and a roof with an aperture in each, oppositely disposed, and a hood interposed between the apertures whereby air-currents have passage from contact with the container out of the top of the device and a container, in combination.

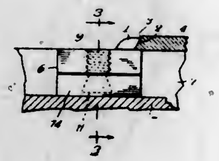
1,350,014. SHOCK-ABSORBER FOR TYPEWRITING-MACHINES. CHARLES W. ECKERMAN, Alameda, Calif. Filed Feb. 26, 1917. Serial No. 151,056. 2 Claims. (Cl. 45—137.)



1. A shock absorber comprising a pad, a clamp, a rivet extending through the central part of the pad to hold the clamp thereon, said rivet drawing the central part of the

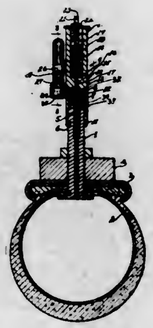
pad up and providing a central recess in the bottom of the pad, so as to distribute the weight of the typewriter to the outer portion of the pad.

1,350,015. PRINTING-PLATE CLAMP. WILLIAM M. EVENSEN, Chicago, Ill., assignor to Goss Printing Press Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 6, 1917, Serial No. 200,501. Renewed Jan. 8, 1919. Serial No. 270,213. 12 Claims. (Cl. 101—381.)



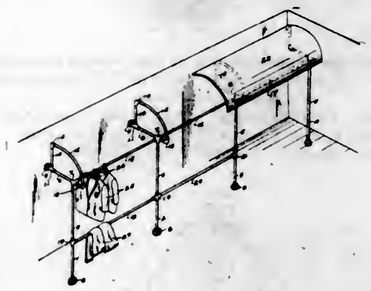
1. A printing plate clamp adapted to coöperate with a slotted plate bed, and including in combination a clamping jaw, a clamp body attached thereto and extending into a slot in the bed, the clamp body being longitudinally recessed from the center thereof to one side, an expanding member substantially of the shape of the recess in the clamp body and located in said recess, the adjacent upright faces of the body and expanding member having corresponding hemi-conical recesses therein terminating in a screw-threaded aperture through the clamp body, and an expanding screw having a conical head in said hemi-conical recess and its shank threaded into the screw-threaded aperture in the clamp body.

1,350,016. SIGNAL FOR INDICATING SUBNORMAL PRESSURE IN PNEUMATIC TIRES. CLYDE THOMAS EWING and ARTHUR G. EWING, Los Angeles, Calif. Filed Aug. 26, 1919. Serial No. 319,991. 3 Claims. (Cl. 116—34.)



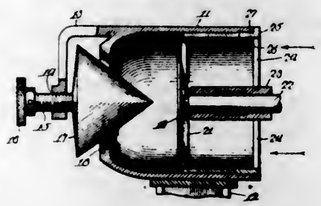
1. A low pressure signal for pneumatic tires comprising a casing adapted to be screwed upon the tire valve stem and having a whistling aperture formed in its wall, a wall extending transversely of said casing above said aperture, a rod slidably mounted in said transverse wall and adapted to extend to and engage the valve in the valve stem, a spring mounted to press against the upper end of said rod above said transverse wall, and means for adjusting the pressure exerted by the spring whereby a decrease of a pre-determined pressure in the tire will cause the tire valve to be opened and the whistle to be blown.

1,350,017. CLOTHES-RACK. MORRIS FELDMAN, Los Angeles, Calif. Filed Apr. 7, 1920. Serial No. 372,098. 2 Claims. (Cl. 211—14.)



1. A clothes rack including a plurality of standards, each standard comprising an upright mounted on the floor, a transverse member connected to the upper end of said upright and connected at its inner end to a vertical wall, and rafters; a roof resting upon said rafters; a rail connecting each adjacent pair of standards at the upper end of their uprights upon which coats may be hung; and a rail connecting the uprights of each adjacent pair of standards about one-third the distance from the lower to the upper ends of said uprights upon which rails trousers may be hung.

1,350,018. GOVERNOR FOR MOTORS. CHARLES H. GILL, Chicago, Ill. Filed June 18, 1919. Serial No. 305,116. 7 Claims. (Cl. 74—69.)

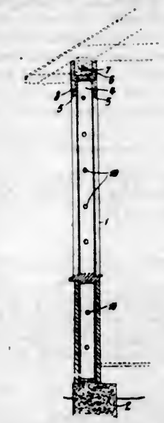


1. A clothes rack including a plurality of standards each lindrical air chamber, a rotatable shaft, a fan member carried by said shaft within said air chamber, an air compression space, air inlet openings, an air outlet gate of beveled circular form, a conical stopper member for said outlet gate, a threaded shaft carrying said stopper member, an internally threaded bearing for said threaded shaft, means for manually turning said threaded shaft and means for operatively connecting said governor to the motor it is to govern.

1,350,019. BUILDING STRUCTURE. JOHN HARKNESS, Ayr, Scotland. Filed July 15, 1919. Serial No. 310,964. 2 Claims. (Cl. 72—16.)

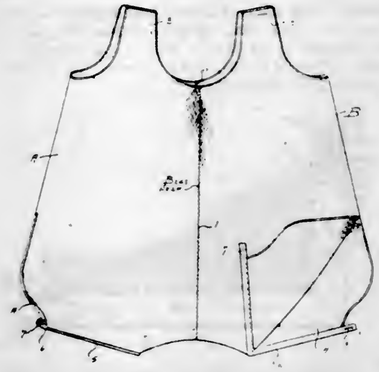
1. A wall structure, comprising a base, upright beams of H section set on said base with the edges of the flanges abutting and interengaged with each other, said beams forming integral connected outer and inner faces of a cavity wall, the webs of said beams constituting studs

and protruding at the upper edges beyond the flanges, and a horizontally disposed beam of substantially H section



and of a cross section equal to that of said upright beams and fitting the upper ends of the said upright beams.

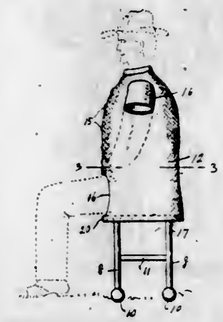
1,350,020. UNION-GARMENT. GAIL H. HEATLY, Mangum, Okla. Filed Nov. 15, 1919. Serial No. 338,313. 1 Claim. (Cl. 2—144.)



As a new article of manufacture, a bifurcated union garment comprising two substantially duplicate sections, each forming one side and one half of each of the front and back of the completed garment and each having straight meeting edges, said meeting edges being connected throughout by a straight middle seam lying at the center of the front and back of the completed garment, the lower edges of said sections being open and being connected together for a short distance at each side of said middle seam to provide spaced leg openings, whereby the completed garment is free from side seams and central openings and will lie flat when being laundried, the leg openings communicating with side openings and coacting therewith to form front and back flaps and means for detachably connecting said flaps.

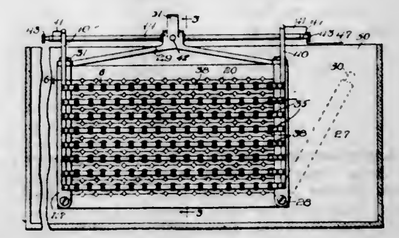
1,350,021. CHAIR. JEREMIAH R. HOLLIDAY, Winnsboro, S. C. Filed Apr. 28, 1920. Serial No. 377,338. 1 Claim. (Cl. 155—37.)

A device of the character described comprising a seat member, said seat having recesses adapted to receive a portion of the limbs of the person, supporting legs depending from said seat, a fabric body member surrounding the periphery of said seat and adapted to snugly engage the body of the person, the lower end portions of said body member being cut away to provide recesses adapted to



receive a portion of the limbs of the person at certain times, the recesses of the body member coöperating with the recesses of the seat to permit unobstructed movement of the limbs of the person, and means for connecting the ends of said body member to each other and to the front portion of the seat extending between said recesses.

1,350,022. RADIATOR AND PROCESS OF AND APPARATUS FOR PRODUCING SAME. GEORGE B. JACKSON, Chicago, Ill. Filed Apr. 23, 1917. Serial No. 163,845. 11 Claims. (Cl. 204—1.)

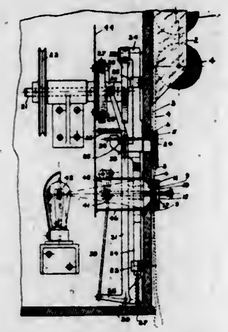


1. The method of producing a one piece, seamless radiator which consists in separately forming radiator air tubes, grouping and holding the tubes in predetermined spaced relation by a matrix and producing by electrolytic deposition on the matrix a complete radiator shell and a union of said tubes with said shell.

1,350,023. PHOTOGRAPHIC PRINTING. WILLIAM V. D. KELLEY, Brooklyn, and JOSEPH MASON, New York, N. Y., assignors, by mesne assignments, to Prizma Incorporated, a Corporation of Maine. Filed July 26, 1917. Serial No. 182,817. 39 Claims. (Cl. 95—75.)

1. The method of photographically printing images upon a positive strip from a negative strip while in contact, which consists in exactly registering laterally and longitudinally a single perforation in the negative strip, occupying a fixed position relatively to the image thereon, with a corresponding like perforation in the positive strip and simultaneously registering another corresponding separated perforation in both positive and negative in one direction only to effect both longitudinal and lateral registration of the negative with the positive as the standard, and printing an image on the positive strip from said negative while so registered.

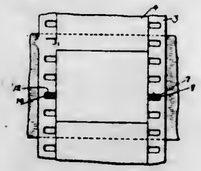
12. In a photographic printing machine, a full fitting pin for registering a negative film laterally with respect to a positive film to be printed, a loose fitting pin



spaced therefrom for effecting longitudinal registration only by another perforation of each film, and means for clamping the negative and positive in registered printing position,

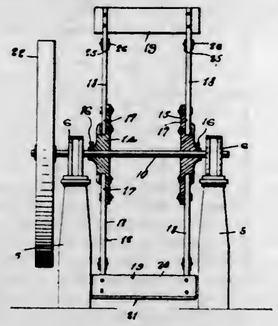
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1,350,024. PHOTOGRAPHIC IMAGE. WILLIAM V. D. KELLEY, Brooklyn, and JOSEPH MASON, New York, N. Y., assignors, by mesne assignments, to Prizma Incorporated, a Corporation of Maine. Original application filed July 26, 1917, Serial No. 182,817. Divided and this application filed Mar. 9, 1918. Serial No. 221,343. 1 Claim. (Cl. 88—19.5.)



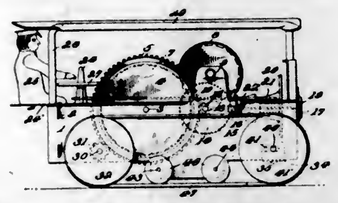
A photographic film strip transparency having a series of image areas, each area carrying a plurality of color value printed images, each image being similarly registered longitudinally with a certain perforation and laterally with a certain other perforation of the film strip.

1,350,025. WATER-MOTOR. WILLIAM J. KINBACK, Bethlehem, Pa. Filed Oct. 5, 1917. Serial No. 194,895. 1 Claim. (Cl. 170—111.)



A water motor comprising a shaft, a hub mounted upon the shaft and provided at its periphery with radially disposed sockets, radially disposed spokes having their inner ends secured in the sockets of the hub, blades carried at the outer end of the spokes, and links secured at their ends to the adjacent spokes and bridging the space between them and holding the spokes in radial position with relation to the shaft, the end portions of the adjacent links overlapping each other and the links being arranged substantially in an arcuate line around the center of the shaft, each arcuate line lying against one side of the spokes and the other side lying against the opposite sides of the spokes.

1,350,026. TOY TRACTOR. EDWARD JOSLIN KINGSBURY, Keene, N. H. Filed June 11, 1919. Serial No. 303,289. 4 Claims. (Cl. 46—48.)



3. A toy tractor comprising a frame, a pair of drive wheels mounted in the frame, a motor for driving said wheels, a pair of wheels carried by the opposite end of the frame, endless traction belts passing around the wheels, and guards carried by the frame and extending downwardly over the belts to prevent them slipping from the wheels.

1,350,027. METAL WINDOW-SCREEN. ALFRED M. LANE, St. Louis, Mo., assignor to Monarch Metal Products Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 21, 1919. Serial No. 318,878. 17 Claims. (Cl. 156—14.)



17. A screen comprising inner and outer frame members and meshwork locked between them, one of said frame members comprising a strip of metal bent lengthwise to form a hollow boxing, the marginal portion of the outer face of said boxing being soldered to the inside of the corner portion of the boxing.

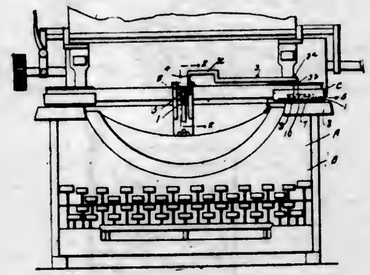
1,350,028. CLOTHES-TONGS. LEONARD M. LARSON and CHARLES J. CARLSON, Tacoma, Wash. Filed Nov. 17, 1916. Serial No. 131,867. 5 Claims. (Cl. 68—6.)



2. A device for withdrawing articles of clothing from a wash boiler, comprising a shaft, a hand crank connected

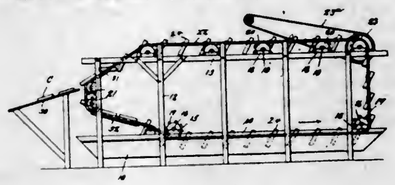
to one end of the shaft, and a fork pivotally connected to the other end of the shaft for angular movement with relation to the shaft.

1,350,029. UNDERSCORER FOR TYPEWRITERS. ALBERT E. LASTINGER, Ooltewah, Tenn. Filed Jan. 21, 1919. Serial No. 272,279. 1 Claim. (Cl. 197—113.)



The combination with a typewriter including a frame, a platen carried thereby and writing keys mounted in operative relation to the platen, of a bracket connected with the frame at one side thereof, a horizontally extending arm provided with a depending pivot pin extending through the bracket to pivotally mount the arm, a rectangular block carried by the depending pin beneath the bracket, a spring element engaging the block to hold the arm in position, and an underscoring face carried by the free end portion of the arm.

1,350,030. COOKING APPARATUS. EDWARD M. LAWRENCE, Rockland, Me. Filed Jan. 17, 1920. Serial No. 352,140. 5 Claims. (Cl. 53—7.)



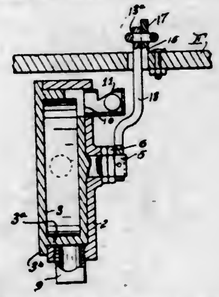
1. A cooking apparatus comprising an endless conveyer having upper and lower runs, a cooking receptacle through which the lower run of the conveyer passes, pivotally supported article-container holders carried by the conveyer, said holders having an open top and a foraminous front, against which latter open portions of the article-containers are adapted to seat, the pivots of the holders being so located that said holders have a normal tendency to pendent position on the upper and lower runs of the conveyer, and means interposed in the paths of the holders to invert the same at one end of the upper run of the conveyer to dump the article-containers from the open tops of the holders.

1,350,031. PROCESS OF TREATING FIBROUS VEGETABLE MATERIAL AND THE RESULTING PRODUCT. GUY S. MCDANIEL, Smyrna, Ga., assignor of one-half to E. H. Kimbell, Atlanta, Ga. Filed July 24, 1919. Serial No. 313,003. 9 Claims. (Cl. 92—15.)

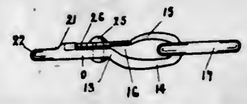
1. The process of treating Spanish moss which consists in subjecting the green partly cured or cured moss to an alkaline solution of specific strength whereby the outer coating is shrunk and set upon the inner fiber substantially as described.

1,350,032. AUTO-THEFT SIGNAL. JOHN W. MARR, Newport Beach, Calif. Filed Feb. 25, 1920. Serial No. 361,336. 2 Claims. (Cl. 116—33.)

1. In a theft signal for motor vehicles, the combination of a circular valve casing adapted to be attached to the exhaust outlet, a whistle attached to said casing adapted to be sounded by exhaust gases, outlets to atmosphere and to a muffler from said casing, the said outlets and exhaust pipe connection being disposed radially about the periphery of said casing, a valve revolubly mounted within said casing comprising an arcuate wall adapted to slidably contact with the inner circular surface of said casing, ports in said valve adapted to register with outlets in said casing, and means to rotate said valve.



1,350,033. CLASP-HOOK. WILLIAM MONROE, Hooper, Nebr. Filed Jan. 29, 1920. Serial No. 354,761. 1 Claim. (Cl. 24—232.)



A hook comprising a body portion having an offset portion and a bill returned upon the offset portion and having its end spaced from the body portion providing a mouth, an arcuate shoulder on the body portion at the opposite end from the hook, said end having the shoulder formed with an opening, a pin extending through the body portion and forming a center from which the curve of the shoulder is struck, a disk rotatably mounted on the pin and having its periphery rotating close to and past the free end of said bill and said arcuate shoulder, said disk having a slot in its edge, and an element adapted to interlock with the bill and receivable into the slot in the disk in moving into and out of the bill.

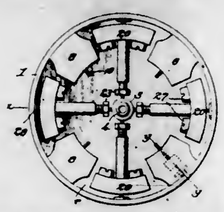
1,350,034. SAFETY-RAZOR. RILEY HERBERT PARKER, Winthrop, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed Jan. 6, 1919. Serial No. 269,742. 7 Claims. (Cl. 30—12.)



1. In a safety razor, a holder comprising a guard, a cap-piece pivotally mounted on an axis parallel with the guard

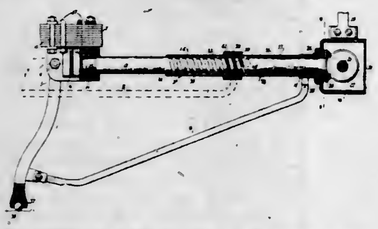
and provided with stops adapted to engage and position the cutting edge of a blade, and means for maintaining the blade in operative position when the holder is closed.

1,350,035. COMPENSATING BALANCE-WHEEL. INGILD POVELSEN, Washington, D. C. Filed Mar. 2, 1920. Serial No. 362,877. 18 Claims. (Cl. 58—107.)



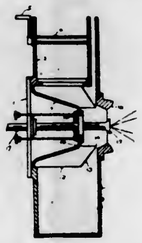
5. A balance wheel comprising a hub, a rim, a member connecting the hub and rim, a cover on the wheel, and timing and compensating devices positioned within the rim and adjustable from without the rim.

1,350,036. LIFTING-JACK AND THE LIKE FOR USE ON MOTOR ROAD AND OTHER VEHICLES. FREDERICK LIONEL RAPSON, Liverpool, England. Filed Dec. 22, 1917. Serial No. 208,497. 6 Claims. (Cl. 254—86.)



1. In a lifting jack for vehicles, a chassis, a lever pivoted on the chassis, shaft journaled on the chassis and provided with a spiral groove, a sleeve slidable on the shaft and provided with an internal spiral groove coinciding and coöperating with the groove in the shaft to form a spiral race-way, balls mounted in the race-way, a second sleeve slidable on the shaft, a tubular connection between said sleeves and arranged in embracing relation with said shaft, a connection between the second mentioned sleeve and said lever, and means to slide the sleeves on the shaft whereby to raise and lower the lever.

1,350,037. FURNACE-FRONT. JOHN REID, New York, N. Y. Original application filed Apr. 19, 1919, Serial No. 291,362. Divided and this application filed Dec. 16, 1919. Serial No. 345,396. 3 Claims. (Cl. 158—1.5.)



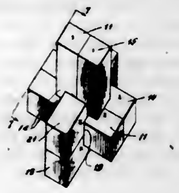
1. In a furnace front, a front plate and a back plate forming an air pocket in a forced draft furnace system, a closure plate secured to the front plate for the fuel opening, an oil pipe having a burner nozzle and supported by said closure plate, a cone shell forming an air deflector and introduced between said front and back plates in the fuel openings, and guide plates mounted on said shell and extending outwardly in a substantially horizontal direction from the larger end of the shell and terminating adjacent to the back plate.

1,350,038. STREET-CAR ANNUNCIATOR. JAMES L. SCROGGINS, Bennington, Okla. Filed Sept. 16, 1919. Serial No. 324,146. 3 Claims. (Cl. 40—59.)



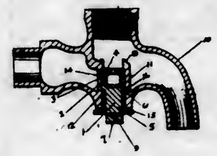
1. A street annunciator of the class described comprising a web, rollers upon which said web is adapted to be wound, and actuating mechanism for effecting the winding operation comprising an electro-magnet, an electric circuit therefor, a circuit closer adapted to be intermittently operated, ratchet mechanism including spaced pawls suspended from the armature of the electromagnet, and a gear member interposed between said pawls to hold them in operative position, said gear being connected to one of the web rollers to actuate the same.

1,350,039. BLOCK PUZZLE. SAM SENYK, Toronto, Ontario, Canada. Filed July 23, 1919. Serial No. 312,664. 1 Claim. (Cl. 46—41.)



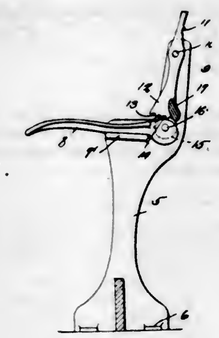
A block puzzle comprising fixed rectilinear blocks, of uniform length, thickness, and arranged in pairs, one of said blocks being plain upon each of its four sides, another block having two recesses formed in corresponding sides, one of said recesses being half the width of the other and spaced therefrom at a distance corresponding to half the width of the block, a pair of blocks each having a recess in their sides equal to the combined width of the blocks, and another recess in the side adjacent thereto equal in length to the width of the block, and another pair of blocks recessed upon adjacent sides, each of said recesses being equal to the width of the block and offset one from the other in amount equal to one half the width of the block, the recesses in one block being formed oppositely to the recesses to the other block, all of said blocks being capable of interengagement when correctly assembled presenting a symmetrical geometrical figure.

1,350,040. VALVE. ALFRED EDWARD SHACKLEFORD and GUSTAVE ARTHUR FRANKLIN, Calgary, Alberta, Canada. Filed Aug. 12, 1918. Serial No. 249,508. 2 Claims. (Cl. 277—66.)



2. A fluid valve, in which a cut-out plug is formed in three integral sections, a cylindrical shaped middle bearing section, a bottom key section and a cylindrical upper cup section having a straight wall vertically, a full dimension upper outlet and a side port of rectangular shape, a casing having a perfect cylindrical and vertical chamber formed therewithin a port corresponding to said side port, said cylindrical chamber being closed in slightly by a tapering wall, adapted to form on the inside a shoulder as a limiting stop for the cupped end of said plug and on the outside a narrow valve seat, a valve on said seat and an operating stem therefrom, and a gland nut screw-threaded into said vertical chamber and locking said cut-out plug in position.

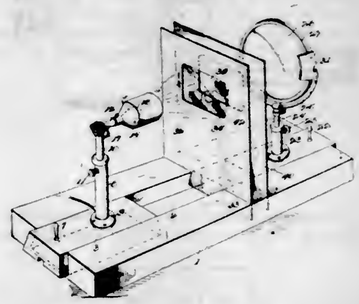
1,350,041. CHAIR. GAYLE L. SQUIRE, Hastings, Fla. Filed Dec. 30, 1919. Serial No. 348,257. 1 Claim. (Cl. 155—84.)



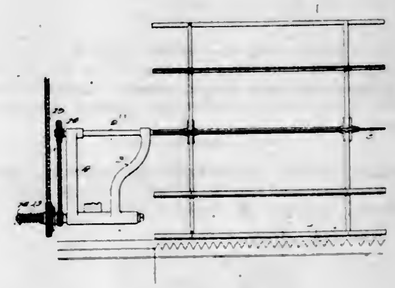
In a chair, supporting legs, each of said supporting legs having an upwardly extending arm, a back rest comprising spaced arms pivotally supported by the upwardly extending arm, each of said spaced arms having a segmental gear formed at the lower end thereof, a pivoted seat portion positioned between the arms, segmental gears carried by the seat portion and coöperating with the first mentioned segmental gears, supporting flanges disposed under the seat and adapted to receive the seat portion when the same is in a horizontal position, and a stop formed integral with each of the spaced arms, and adapted to engage a portion of the segmental gears of the seat portion for restricting movement of the back rest.

1,350,042. APPARATUS FOR THE EXAMINATION OF X-RAY AND OTHER NEGATIVES. ELZA R. STEALY, Shenandoah, Iowa. Filed Sept. 18, 1918. Serial No. 254,606. 27 Claims. (Cl. 88—1.)

1. In apparatus for the examination of negatives, means for supporting a negative, a source of light mounted for universal adjustment at one side of the means, and a uniformly magnifying mirror at the other side of the said means.



1,350,043. SAFETY-DRIVE FOR HARVESTER-REELS. ORLANDO STITT, Toledo, Ill. Filed July 9, 1917. Serial No. 179,517. 1 Claim. (Cl. 74—29.)

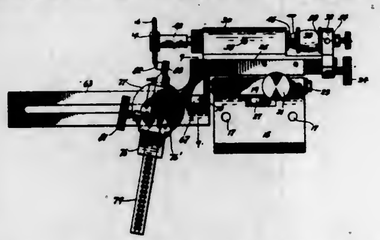


The combination with a driven shaft, of a bracket therefor, a second shaft carried in the bracket, and spaced from the driven shaft, a sprocket wheel fixed to the driven shaft, large and small sprocket wheels loose on the second shaft, a friction clutch disk formed on one of the loose sprocket wheels, the other loose sprocket wheel being formed with a friction face to be engaged by the friction clutch disk, a sprocket chain trained over the large sprocket wheel, an endless sprocket chain trained over the smaller sprocket wheel and over the sprocket wheel fixed to the driven shaft, and a coiled expansion spring carried by the second shaft and active against the loose sprocket wheel adjacent thereto for frictionally holding the clutch disk in positive engagement with the clutch face.

1,350,044. ATTACHMENT FOR GRINDING SCREW-THREADED ARTICLES. JOSEPH M. STRYHAL, Washington, D. C., assignor of one-half to William M. Manion, Philadelphia, Pa. Original application filed June 23, 1917, Serial No. 176,610. Divided and this application filed July 20, 1918. Serial No. 245,827. 6 Claims. (Cl. 125—11.)

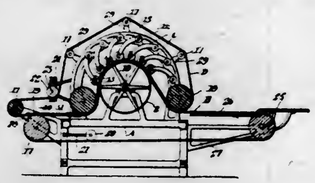
1. A dressing attachment for a grinding device comprising a supporting arm detachably connected to said

grinding device, a plate capable of longitudinal adjustment therealong, a tool carrier angularly adustable on said



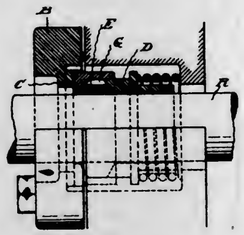
plate, and common means for securing adustments of said plate and tool carrier relative to said supporting arm.

1,350,045. APPARATUS FOR DESEEDING FLAX. FREDERIC LANGTRY VAN ALLEN, Regina, Saskatchewan, Canada. Filed May 19, 1919. Serial No. 298,165. 6 Claims. (Cl. 130—13.)



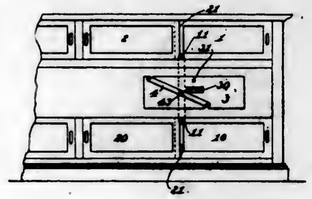
1. In a machine for the purpose specified and in combination, a relatively large conveying roller, and a plurality of deseeding rollers held in yieldable contact with the surface of the conveying roller and arranged in staggered rows.

1,350,046. PACKING-BOX FOR PISTON-RODS. ADRIAN O. VAN DERVORT, Troy N. Y. Filed Oct. 22, 1919. Serial No. 332,408. 10 Claims. (Cl. 286—23.)



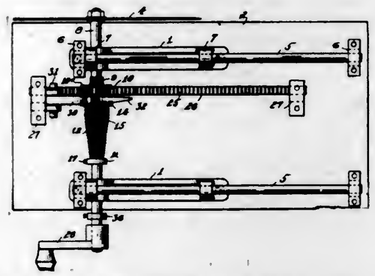
1. In a rod-packing, in combination, an annular packing ring chamber comprising an outer wall forming a tension hoop, and two annular end walls each facing toward the other; a follower ring of which the inner face thereof constitutes one of said end-walls; means for actuating the follower ring in a direction for subjecting a packing ring in said chamber to a width-contracting pressure; and a packing ring in said chamber consisting of co-acting segments composed of a metal mixture moldable under the action of the pressure and heat of superheated steam, said segments each having one underlapping wedge-end, and also having one overlapping lever-end bearing upon and extending only partially over the wedge-end of a co-acting segment, and the rod packing having between the tension hoop and the lapping wedge-end and lever end, a relief chamber occupying an arcual length circumferentially of the ring greater than the arcual length of the bearing of a said lever end upon said wedge-end.

1,350,047. SHOW-CASE LOCK. EUGENE W. WAY, Seattle, Wash. Filed Dec. 29, 1919. Serial No. 348,089. 7 Claims. (Cl. 45—94.)



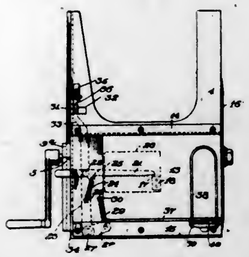
1. In a show case, in combination, a plurality of doors placed one above the other, a member normally secured in the show case and slidable outwardly therefrom, and a locking bar carried by said slidable member and engageable with said doors to secure them in fixed position.

1,350,048. SLICING-MACHINE. SOLOMON WILE, Rochester, N. Y. Filed Nov. 10, 1919. Serial No. 336,962. 15 Claims. (Cl. 17—24.)



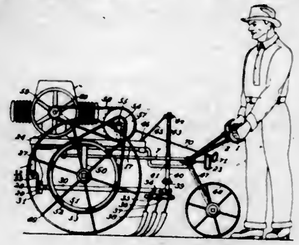
1. A slicing machine comprising a rotary cutter movable in the direction of its axis, and a support for the material to be sliced movable transversely of the axis of rotation of the cutter.

1,350,049. SLICING-MACHINE. SOLOMON WILE, Rochester, N. Y. Filed Jan. 26, 1920. Serial No. 354,081. 7 Claims. (Cl. 17—24.)



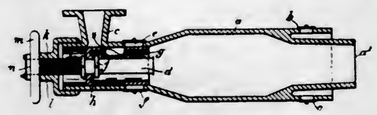
1. In a slicing machine, a frame, a cutter movable on the frame, a carriage movable on the frame parallel with the plane of operation of the cutter, a carriage for supporting the material to be sliced movable on the first mentioned carriage transversely of the plane of operation of the cutter, and mechanism for shifting the second mentioned carriage on the first mentioned carriage comprising a lever pivotally mounted on the first mentioned carriage, and a second lever pivotally mounted on the first mentioned lever and coöperating with the second mentioned carriage to shift the latter step-by-step.

1,350,050. CULTIVATOR. DALTON K. WILSON, Waterloo, Iowa. Filed June 30, 1919. Serial No. 307,608. 12 Claims. (Cl. 97—42.)



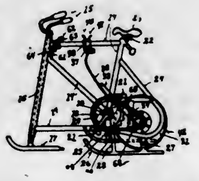
1. In combination, a frame, means of transportation including steerable elements on which said frame is mounted for relative movements of said steerable elements, gangs of implements movably supported on said frame, and loosely connected mechanisms operatively associated with said frame, said means of transportation, the steerable elements thereof, and with said gangs of implements, movable separably to steer said device or vertically or laterally to shift said gangs of implements, or together to perform both said operations simultaneously.

1,350,051. GAS-BURNER. LLOYD WILSON, Keswick, England. Filed Apr. 7, 1917. Serial No. 160,485. 6 Claims. (Cl. 158—119.)



6. A gas burner for furnaces comprising in combination a tubular body portion having an inlet near its outer end for the supply of gas, inlet ports for the supply of primary air, a hollow sleeve valve having a port therein, and formed to coöperate with the gas inlet port and with the air inlet ports so as to simultaneously regulate the air and gas supplies, a hollow centrally arranged tube for the supply of additional primary air, means for connecting the tube to the adjustable hollow sleeve valve, and means for moving said tube in an axial direction relative to the body of the burner substantially as described.

1,350,052. BICYCLE-SLED. OSCAR W. AHLBOM, Salt Lake City, Utah. Filed Nov. 17, 1919. Serial No. 338,753. 5 Claims. (Cl. 208,161.)



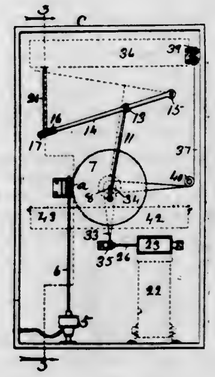
1. A bicycle-sled comprising a frame having a steering post and a saddle, a steering rod rotatably mounted in said steering post and having a runner connected thereto at its lower end and a hand lever at its upper end, a pair of runners pivotally connected to the rear portion of said frame, a pedal shaft journaled to said frame, a propeller wheel having a tire of resilient material, and a series of retractile spurs mounted upon said frame and driven from said pedal shaft and adapted to engage the surface over which the runners are to be propelled at a point between said pair of runners, and a cam wheel operable at the will of the operator to extend and retract said spurs.

1,350,053. LIFTING-GRAPPLE. AUGUST AWISCHUS, Filley, Nebr. Filed Aug. 1, 1919. Serial No. 314,607. 4 Claims. (Cl. 294—109.)



1. A device of the class described, comprising a plurality of pairs of curved fingers, a common rod on which said fingers are pivoted, extensions on one of said pairs of fingers forming operating handles, a block through which said rod passes, a rope from which said block is suspended, a second rope looped around said handles for drawing the said fingers together, an extension formed on another of said fingers, a locking arm pivoted to such extension, and an element carried by one of the first mentioned extensions adapted to be engaged by said arm to lock the said fingers.

1,350,054. ADVERTISING DEVICE. EDWARD J. BAKER, Chicago, Ill. Filed Apr. 22, 1918. Serial No. 230,150. 3 Claims. (Cl. 40—32.)



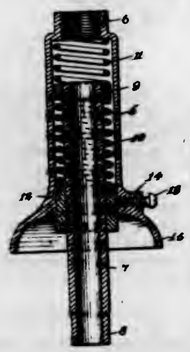
1. In a device of the class described, a transparent front having stationary landscape scenery shown thereon, a frame in which said front is secured, a back casing removably attached to said frame and providing a chamber in which the actuating mechanism is located, a partition with a slot, an illuminating lamp loosely inserted in said slot, a motor, and the operative connections between said lamp and motor.

1,350,055. CARTRIDGE-TYPE FUSE. EDWIN C. BALLMAN, St. Louis, Mo., assignor, by direct and mesne assignments, to Valley Electric Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 15, 1918. Serial No. 262,696. 10 Claims. (Cl. 200—128.)



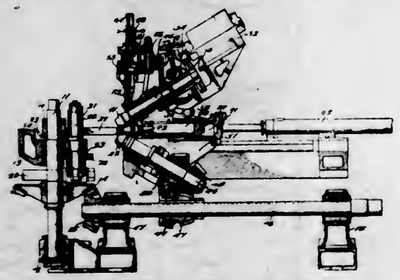
3. An electric fuse, comprising, a case, terminals on said case, a fuse-link connecting said terminals, and a freely movable, tubular element mounted on said fuse-link.

1,350,056. ELECTRIC-LAMP SUPPORT. JOHN E. BARRY, Jr., Chicago, Ill. Filed Apr. 30, 1919. Serial No. 293,789. 2 Claims. (Cl. 248—30.)



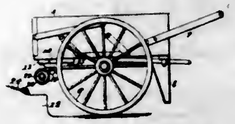
1. An electric lamp support comprising a tubular body; an elongated tubular supporting element having one end mounted in said body for relative longitudinal movement in said body, the passages through said parts being unobstructed for the accommodation of conductor wires; an external stop on said end of said element; an internal stop on said body at one end thereof; a spring interposed between said stops; an internal stop at the opposite end of said body; and a second spring interposed between said second mentioned internal stop and said external stop.

1,350,057. ROLLING-MILL. FRANK B. BELL, Chicago Heights, Ill., assignor to Edgewater Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 7, 1915, Serial No. 44,256. Renewed July 9, 1920. Serial No. 395,173. 40 Claims. (Cl. 80—16.)



1. In a rolling mill, means for removably holding a roll for engaging the interior surface of a tire blank, rolls for engaging the rim of either a car wheel blank or of a tire blank, and means for removably holding rolls in cooperative relation with said rim engaging rolls for rolling a car wheel and also alternatively holding rolls in cooperative relation with said interiorly engaging tire blank roll and with said rim engaging rolls to roll a tire.

1,350,058. HAND-CART. JAMES Z. BENEDICT, Cedar Rapids, Iowa. Filed Mar. 1, 1919. Serial No. 280,078. 2 Claims. (Cl. 280—54.)



1. In a hand-cart, the combination of carrying-wheels, a body mounted thereon, a base-plate attached near the forward end of the body and lengthwise thereof, a bracket mounted under said base-plate and slidable endwise thereof, means for fastening the bracket to the base, and wheels carried by said bracket, the wheels and bracket being slidable forward to fulcruming position, and back out of such position.

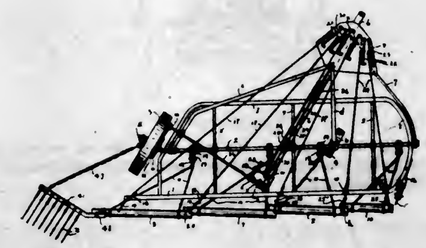
1,350,059. DRILLING DEVICE. HENRY F. BLACKWELL, New York, N. Y., assignor of one-half to William H. Strawn and one-half to Maude A. Blackwell, New York, N. Y. Filed Feb. 18, 1920. Serial No. 359,586. 20 Claims. (Cl. 255—4.)



1. A device of the class described, comprising a casing, power means within said casing, said power means having a shaft, a cutting head shaft driven from the power shaft, a passage through both of said shafts through which comminuted material, displaced by the drilling operation, passes and suction exerting means driven by the power means for causing the comminuted material to be drawn through said passage.

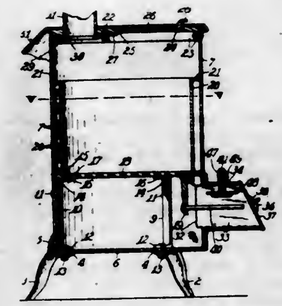
1,350,060. ROAD-FORMING MACHINE. BICK R. BONNEY, Omaha, Nebr., assignor to Michael J. Foley and William P. Monahan, Omaha, Nebr. Filed July 12, 1919. Serial No. 310,391. 6 Claims. (Cl. 37—7.)

1. In a road-forming machine, an axle having an inclinedly disposed part, a frame provided with a caster-wheel and journaled on the axle, a vehicle-wheel journaled on the inclinedly disposed part of the axle, a second frame rigidly mounted on the axle and disposed above the first named frame, scraper-blades connected with the first named frame and also connected with the axle, an operating-shaft revoluble by the revoluble movement of the vehicle wheel, a drum, an operating-bar pivotally mounted



on the second frame and provided with a pulley, a cable connected with the drum and second frame and engaging said pulley, a spacing-bar connected with the first named frame and said operating-bar, and a clutch movable for communicating revoluble movements of the operating shaft to the drum.

1,350,061. HEATING-STOVE. FRANK E. BOWERS, Indianapolis, Ind. Filed Feb. 28, 1918. Serial No. 219,714. 2 Claims. (Cl. 236—6.)



1. A heating appliance comprising a bottom and a side wall, one portion of the wall having an aperture therein, a neck secured to the wall at the aperture and having an air-inlet port in the top thereof, a closure removably secured to the front end of the neck, a guide on the neck, a pivotally supported valve lever guided by said guide, a link connected to said lever and extending through said port, a supported thermostatic device to operate said lever, and a valve within said neck and connected to said link to close or open said port.

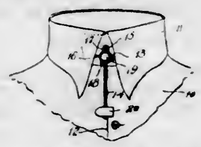
1,350,062. BULLET-PROOF ARMOR. GUY OTIS BREWSTER, Dover, N. J., assignor to Guy Otis Brewster and Emil Heller, trading as Brewster and Heller. Filed Dec. 28, 1915. Serial No. 69,009. 2 Claims. (Cl. 89—36.)

2. An armor comprising head, body, arm and leg portions of angular bullet proof material, said head portion being bent backwardly to protect the top of the head of the user and provided with eye openings therethrough, and shields for said openings to protect the eyes of the



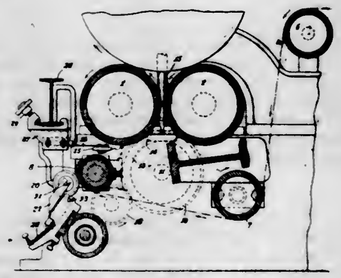
user when said head portion is downwardly inclined, without obscuring his sight.

1,350,063. COLLAR-HOLDER. BENJMIN F. BURGOYNE, New Haven, Conn. Filed July 18, 1919. Serial No. 311,740. 1 Claim. (Cl. 24—81.)



The herein described collar holder, the same comprising a wire element including an upright stem bent at its upper end to form two jaws facing each other and an interposed resilient neck, the terminal of the wire being spaced from the stem to leave an entrance opening, and a spring clip at the lower end of said element, the latter constituting the pivot for its jaws, the upper jaws adapted to embrace a collar button behind its head and outside the collar, and the lower jaws adapted to engage the shirt.

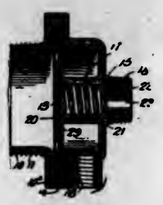
1,350,064. SLITTING AND REWINDING MACHINE. JAMES A. CAMERON and GUSTAF BERGER BIRCH, Brooklyn, N. Y., assignors to Cameron Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed May 23, 1919. Serial No. 299,273. 6 Claims. (Cl. 164—65.)



1. A rewinding machine comprising: a front and a rear surface rewinding drum in spaced relation, a displaceable rewinding shaft above and intermediate the rewinding

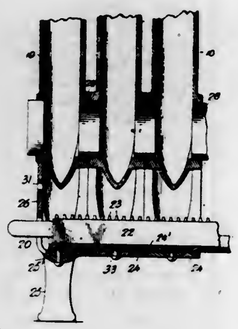
drums, means for guiding flexible material over the surface of the front rewinding drum and up between the two drums to the rewinding shaft, and means for rotating the two drums in one and the same direction.

1,350,065. AUTOMATIC CONTROL-VALVE. JAMES M. CAMMACK, Brooklyn, N. Y. Filed June 21, 1916. Serial No. 104,905. 1 Claim. (Cl. 236—26.)



In an automatic control valve, the combination of a ring adapted to be screwed into the wall of a fluid container and having a flange on its outer edge, a diaphragm covering the outer end of the ring, a cap attached to the flange and securing the diaphragm, a nipple constituting the inlet at the inner face of the cap and impinging the diaphragm when pressure is put on the inner side of the latter, a spring within the nipple and bearing on the diaphragm, a nut in the nipple to adjust the pressure of the spring, and a protecting surface on the diaphragm.

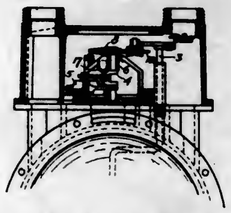
1,350,066. RADIATOR. JAMES M. CAMMACK, Brooklyn, N. Y. Filed Apr. 22, 1916, Serial No. 92,889. Renewed Jan. 13, 1920. Serial No. 351,255. 2 Claims. (Cl. 237—17.)



1. In a gas fired radiator, the combination of radiator sections coupled together, of leg sections at each end of the radiator and having openings and cross pieces, a bar supported by the cross pieces, removable plates covering the openings, a burner carried by the bar, and separate perforated housing sections beneath the radiator sections and hung from the bar.

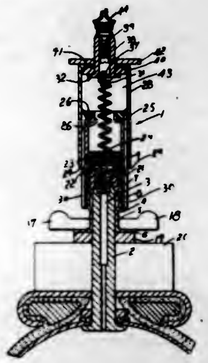
1,350,067. TANGENT-POST FOR GAS-METERS. HORACE CHRISMAN, Edgewood, Pa., assignor to Pittsburgh Meter Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 20, 1917. Serial No. 181,867. 6 Claims. (Cl. 73—1.)

1. In combination with the crank shaft of a meter, a bendable crank shaft engaging member rigidly secured thereto, a flag arm connection integrally formed with said member and comprising a yoke adapted to surround the said crank shaft, and means carried by the yoke on opposite sides of the said crank shaft and adapted to adjust



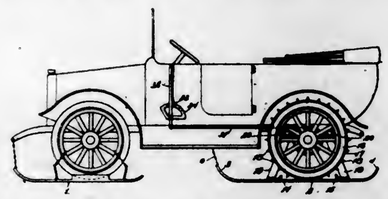
the yoke with respect to the said shaft, thereby adjusting the angular position of the said connection with relation to said crank shaft.

1,350,068. PNEUMATIC-TIRE-FILLING DEVICE. HAROLD B. CODY, Palm Springs, Calif. Filed May 12, 1919. Serial No. 296,681. 2 Claims. (Cl. 152—11.5.)



1. A pneumatic tire filling device comprising a stem fixed to the tire forming an air conduit having an outside screw thread, a base, screw seated upon the stem, an inner telescoping member connected to the base forming an air tight joint and having gage lines on its periphery, an outer telescoping member slidably mounted on the inner telescoping member its lower edge forming an indicator for the gage lines, a flexible piston ring mounted at the top of the inner telescoping member forming a slidable air tight joint between it and the outer telescoping member, a pulling spring connecting the base to the outer telescoping member and an air inlet valve mounted upon the outer telescoping member having means for connecting it with a proper air supply.

1,350,069. SLED-RUNNER ATTACHMENT FOR AUTOMOBILES. GEORGE W. CORSEPIUS, Downey, Idaho. Filed Oct. 26, 1917, Serial No. 198,625. Renewed Jan. 2, 1920. Serial No. 349,085. 3 Claims. (Cl. 180—6.)



1. A traction attachment for automobiles comprising a pair of sled runners, a bolster carried by said runners

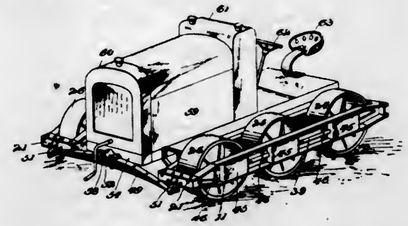
and composed of spaced bolster sections, clips engaging the axle housing, links connecting the clips with the bolster sections for adjustably supporting the rear axle from the bolster, means associated with the link mechanism for raising and lowering the axle, and suitable traction devices applied to the wheels of the rear axle.

1,350,070. IDENTIFICATION MEANS. JOSAPHAT COUTURE, Hull, Quebec, Canada. Filed Aug. 13, 1918. Serial No. 249,733. 1 Claim. (Cl. 40—10.)



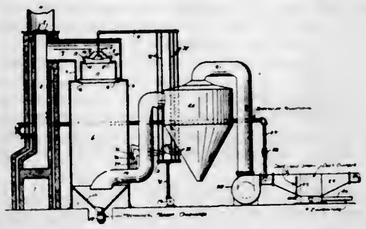
An identification receptacle comprising a container subdivided into two compartments, a spring controlled plunger in one compartment, a curvilinear arm on the container overhanging the end of the same to coact with the said plunger, a ring pivotally connected to the other end of the container, and a cap designed to fit the open end of the other compartment having a head adapted to lie within the ring, as and for the purpose specified.

1,350,071. MULTIPLE-WHEEL DRIVE FOR TRACTORS. LLEWELYN J. DAVIES, Twin Lakes, Colo. Filed Mar. 20, 1919. Serial No. 283,813. 4 Claims. (Cl. 180—22.)



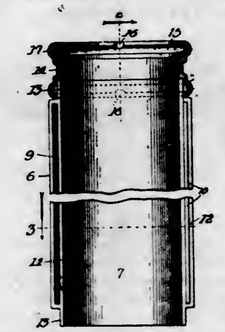
1. A multiple wheel drive including companion drive units connected together in parallel relation, each of said units comprising a supporting frame, shafts journaled upon the frame, one of said shafts providing a drive shaft, drive wheels carried by the shafts, a longitudinal countershaft journaled upon the frame and common to all of the first shafts, and a gear connection between the countershaft and said first mentioned shafts.

1,350,072. PROCESS OF DRYING SOLUTIONS. CHARLES L. DEAN, Denver, Colo. Filed Apr. 27, 1918. Serial No. 231,288. 5 Claims. (Cl. 127—9.)



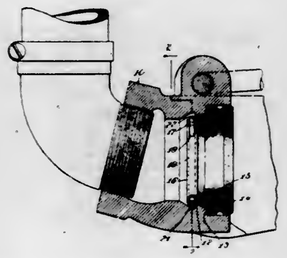
1. A process of drying solutions comprising spraying said solutions into a chamber and subjecting said spray to a series of alternating convergent and cylindrical streams of relatively highly heated, dry gases.

1,350,073. PIPE STRUCTURE. FLOYD DOW, Wyanet, Ill., assignor of one-half to Llewellyn D. Edminster, Wyanet, Ill. Filed May 10, 1919. Serial No. 296,242. 6 Claims. (Cl. 137—75.)



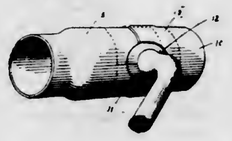
1. A pipe structure formed of a plurality of pipe members disposed in end to end relation, and each formed of sections extending lengthwise thereof, and means engaging the ends of said pipe members operating to hold said pipe sections in assembled condition and permit of the relative rotation of adjacent pipe members.

1,350,074. GASKET FOR TRAIN-PIPE COUPLINGS. EGBERT H. GOLD, Chicago, Ill. Filed Dec. 26, 1919. Serial No. 347,364. 6 Claims. (Cl. 285—69.)



1. The combination with a coupler head having a port provided with an inward projection, of a gasket adapted to fit into said port adjacent said projection and means for securing the gasket in its operative position comprising a ring adapted to expand into a locking engagement with the coupler in a position back of said projection; said ring being formed with a bend providing an outwardly extending projection which normally fits back of said projection in the coupler port when the gasket is in its operative position.

1,350,075. LUBRICATOR. HARRY C. HEATH, San Francisco, Calif. Filed Mar. 31, 1919. Serial No. 286,224. 3 Claims. (Cl. 287—90.)



1. In a protector for a ball and socket joint, in which said ball is mounted with a shank and said socket is contained within a tubular member; a two-part sleeve re-

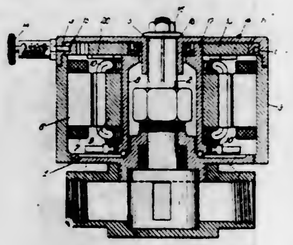
cessed to admit the free movement of said shank, and means for securing said sleeve to said tubular member: a concentric member constructed and adapted to slide between the said sleeve and the said tubular member and split and recessed to fit the said shank.

1,350,076. BELT-BUCKLE. FREDERICK W. LEWIS, Providence, R. I., assignor to Chapin & Hollister Co., Providence R. I., a Corporation of Rhode Island. Filed Jan. 14, 1920. Serial No. 351,330. 3 Claims. (Cl. 24—194.)



1. A belt buckle comprising a face-plate having rearwardly-turned side walls provided with inclined slots therein, and a cam-shaped belt-gripping bar rotatably mounted in said slots to bind the belt by a rotating action against the inner surface of said face-plate.

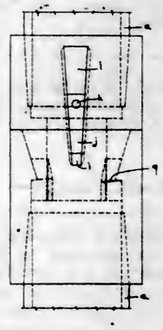
1,350,077. VALVE-OPERATING MECHANISM. WARREN P. LOUDON, Niagara Falls, N. Y., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed Mar. 25, 1918. Serial No. 224,449. 5 Claims. (Cl. 172—36.)



1. In a valve operating mechanism of the character described, the combination with a rotary valve having a stem projecting therefrom, of an electric motor surrounding said valve stem and arranged co-axially therewith, and means providing an operative engagement between said motor and valve stem comprising a cam operated by the motor, a gear eccentrically supported with relation to the axis of said motor and operated by said cam, and a gear connected with said valve stem and meshing with the first mentioned gear.

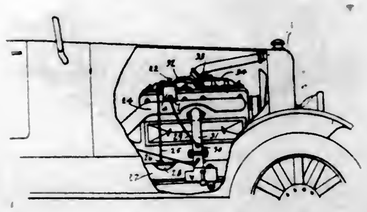
1,350,078. PIPE-COUPLING. WILLIE A. MCCULLAR and JULES J. AYRAUD, Beaumont, Tex. Filed Aug. 26, 1919. Serial No. 319,867. 1 Claim. (Cl. 285—146.)

In a pipe coupling, a member to which a pipe is connected, an extension of the said member tapered toward its end, the said extension terminating in flanges the ends of which are in separated relation to each other, a coupling member to which the pipe is connected, the end of said member remote from said pipe having an aperture with inwardly tapered walls, the said walls being recessed to form clearances for the flanges of the first mentioned member and the under surfaces of the said wall forming shoulders to engage the flanges of the first mentioned member, said members having coinciding external grooves the grooves being tapered from end to end, the reduced end of the groove of one member alining with the



enlarged end of the groove of the other member and keys in said grooves conforming to the contour of the grooves in the two members.

1,350,079. VAPORIZER FOR INTERNAL-COMBUSTION ENGINES. THOMAS A. MULKERN, Hollywood, Calif., assignor of one-half to Charles E. Kerlee, Los Angeles, Calif. Filed Feb. 24, 1919. Serial No. 278,902. 1 Claim. (Cl. 123—25.)

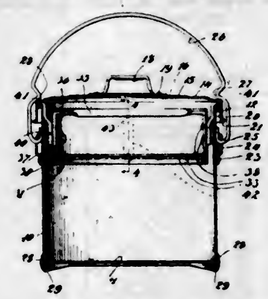


The combination with an internal combustion engine comprising a crank case, an exhaust manifold, and a water jacket, of a pipe nipple tapped through the wall of the exhaust manifold and having therein a cup-shaped vaporizing chamber, a bottom extending from the pipe nipple, an annular wall extending from the edge of the bottom and forming a mixing chamber in communication with the cup-shaped vaporizing chamber, a head screwed into the annular wall, a pipe connecting the mixing chamber with the intake manifold, a second pipe connecting the crank case chamber with the head and with the mixing chamber by way of a passage through the head, a third pipe connecting the water jacket with the mixing chamber by way of a passage through the head, a needle valve in the head for regulating the water passage, the lower face of the head being flat, a valve plate fitting against the flat face of the head to cover the passage through the head, a stem extending from the valve plate through the head, a spring upon the stem bearing against the head and against a seat adjustable on the stem.

1,350,080. ASH-SIFTER. CHARLES NOTTER, West Hoboken, N. J. Filed Oct. 22, 1919. Serial No. 332,420. 4 Claims. (Cl. 83—60.)

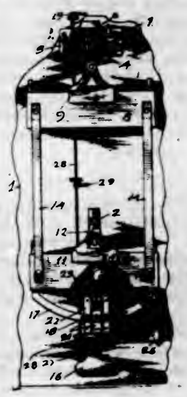
1. In an article of the class described a cylindrical receptacle, a basket having a perforate bottom suspended within said receptacle by means of elements projecting outwardly over and resting upon the top edge thereof, a

cover for said receptacle, and a bail hinged to said receptacle and having inwardly projecting side portions



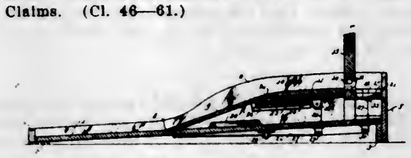
adapted to engage over said cover and clamp the latter and said elements upon the receptacle when the bail is in vertical position.

1,350,081. BERTH. RICHARD PHELAN, Oakland, and FREDERICK BENDIX, San Francisco, Calif. Filed Jan. 23, 1920. Serial 354,243. 5 Claims. (Cl. 114—192.)



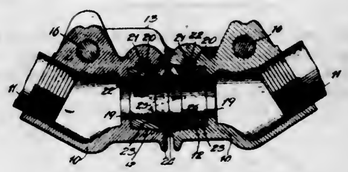
1. A non-vibrating berth comprising a berth having brackets at each end thereof whereby said berth may be suspended; and means for pivotally and resiliently engaging the brackets to prevent transmission of vibration and lateral movement of a ship within which the berth may be suspended, to said berth, and means slidably engaging the berth for locking said berth against lateral movement and permitting vertical movement relatively to said ship.

1,350,082. TOY AND GAME. RYUJI SATO, New York, N. Y. Filed Sept. 16, 1919. Serial No. 324,134. 4 Claims. (Cl. 46—61.)



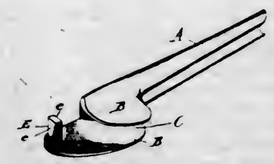
2. In an amusement device of the character described, the combination of a target having an opening therein, a ball runway leading to said target, guiding means adapted to cause the thrown balls to return by gravity to the starting point of said runway, and separate releasable retaining devices adapted to prevent access respectively to said guiding means of the balls passing through said opening and the balls failing to pass through said opening.

1,350,083. HOSE-COUPLING. EDWARD A. SCHREIBER, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed Mar. 6, 1919. Serial No. 280,944. 7 Claims. (Cl. 285—69.)



1. In a coupler of the gravity type, the combination with a coupler head provided with means for positively forcing and holding the same pressed against a mating coupler, of a gasket for said coupler consisting of a tubular member adapted to fit into the port of the coupler head, an annular facing member, both said members being made of substantially non-compressible metal, and means providing an engagement between said members which permits the facing member to oscillate on the other member during coupling and uncoupling operations.

1,350,084. CLAMP. CHARLES H. SCHUB, New York, N. Y. Filed Nov. 13, 1917, Serial No. 201,806. Renewed Feb. 19, 1920. Serial No. 359,850. 9 Claims. (Cl. 144—297.)



1. In a device of the character described, a pair of face-abutting flanges each of which is provided with a slot positioned to substantially register with the other, in combination with a clamp embodying a pair of rigid spaced lips providing an intermediate tapered, open-mouthed slot, and a pin of non-circular cross section, rigid with said lips, whereby the pin may be inserted into the substantially registering apertures and provide a fulcrum about which the clamp may be pivoted to a position wherein the lips will embrace the flanges for the purpose of clamping them tightly together, the rotation of the non-circular pin in said apertures serving to simultaneously and automatically bring the slots into perfect registration.

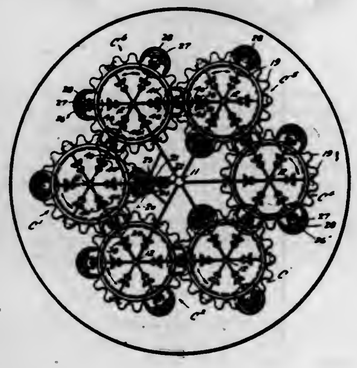
1,350,085. THRESHING-MACHINE. GEORGE A. STANFIELD and CHARLIES SCROGGIN, Lake City, Iowa. Filed May 15, 1920. Serial No. 381,582. 1 Claim. (Cl. 130—23.)



In a threshing machine, a threshing mechanism, a rack to which the threshing mechanism delivers straw, a concave plate supported at the rear of the rack, an agitating cylinder mounted for rotation with relation to the plate and whereby the periphery above the axis rotates away from the outer end of the said rack and whereby the periphery above the axis is approximately on a

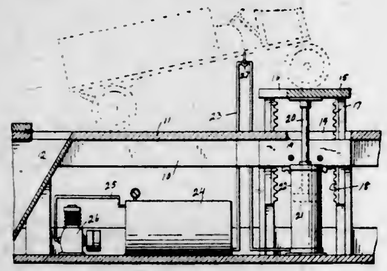
horizontal plane with the outer end of the said rack, a baffle plate supported above the plane of the outer end of the rack and depending below the axis of the shaft of the cylinder, and a rack under the baffle plate and below the plane of the axis of the shaft of the cylinder.

1,350,086. AMUSEMENT DEVICE. JOHN STANLEY, Santa Monica, Calif., and JAMES C. PORTER, Seattle, Wash. Filed Oct. 27, 1919. Serial No. 333,776. 5 Claims. (Cl. 104—65.)



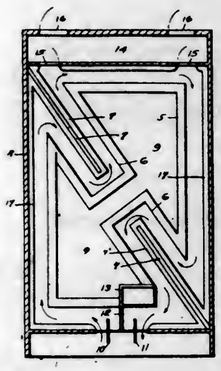
1. In apparatus of the class described, tangentially arranged wheels, vehicle carrying spindles, means provided on the spindles whereby the latter are suspended from the rims of said wheels, hook devices for releasably securing said spindles to the wheels, a cam provided for each of said devices and operatively connected thereto, and means rendered operative by the rotation of the wheel whereby rotary motion is imparted to said cams to successively raise and lower the said hook devices into and out of engagement with the spindles.

1,350,087. TRUCK-DUMPING MECHANISM. CHARLES L. TRAPP, Schuyler, Nebr., assignor, by direct and mesne assignments, of one-fourth to Grover C. Donovan, Schuyler, Nebr., and one-fourth to Louis W. Gohr, Omaha, Nebr. Filed Feb. 12, 1919. Serial No. 276,595. 5 Claims. (Cl. 214—49.)



1. A dumping mechanism comprising a fixed truck supporting platform, a horizontal, vertically movable platform coacting therewith and adapted to support the forward wheels of the truck, said movable platform having downwardly extending guiding rack bars at its four corners, intermeshing gear wheels engaging said rack bars, and power operated means for raising or lowering the movable platform.

1,350,088. VENDING APPARATUS. ROBERT A. TRIBBLE, Cedarbluff, Miss. Filed Mar. 21, 1919, Serial No. 284,122. Renewed Apr. 23, 1920. Serial No. 376,174. 2 Claims. (Cl. 211—8.)



1. In a device of the character described the combination with a storeroom, a display structure located therein comprising a substantially continuous barrier which surrounds an interior space, said barrier being shaped to form deeply indented portions and being adapted to receive and display goods, barriers projecting into said indented portions from the walls of the storeroom, entrance and exit structures and means for preventing the passage of persons from the entrance to the exit structure except around the display structure.

1,350,089. METHOD OF SEPARATELY OBTAINING POTASSIUM CHLORID AND BORAX FROM CERTAIN WATERS. NOAH WRINKLE and WALTER A. KUHNERT, San Francisco, Calif. Original application filed May 22, 1919, Serial No. 299,042. Divided and this application filed July 14, 1919. Serial No. 310,730. 1 Claim. (Cl. 23—22.)

In a process of obtaining separately potassium chlorid and borax from certain waters containing sodium biborate and potassium chlorid, adding a sufficient quantity of sodium hydrate to the solution to produce within the solution a borate compound of increased solubility.

1,350,090. METHOD OF SEPARATING BORAX FROM POTASSIUM CHLORID. NOAH WRINKLE and WALTER A. KUHNERT, San Francisco, Calif. Filed July 21, 1919. Serial No. 312,254. 2 Claims. (Cl. 23—13.)

1. The method of separating potassium chlorid and borax consisting in converting a sufficient portion of the borax to boric acid by treatment with an acidifying agent in aqueous solution, to so increase the solubility of the unaltered borax and the thus formed boric acid to the extent necessary to enable potassium chlorid to be removed as crystals from the solution, and then removing the potassium chlorid from the solution which retains therein the borax and boric acid.

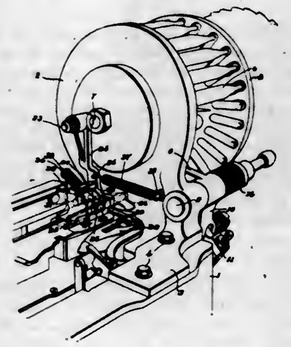
1,350,091. MANUFACTURE OF POTASSIUM CHLORID FROM NATURAL SILICATES, ROCKS, MINERALS, RESIDUES, OR WASTES CONTAINING POTASSIUM. EDGAR ARTHUR ASHCROFT, London, England. Filed Nov. 13, 1917. Serial No. 201,812. 2 Claims. (Cl. 23—22.)

1. The process of manufacturing potassium chlorid which consists in percolating fused chlorid of an alkali metal through a mass of finely divided potassium bearing material at a temperature of from 800° to about 1200° centigrade in the absence of air and moisture and collecting and cooling the percolated salts.

1,350,092. MANUFACTURE OF CAFFEIN. RASIK LAL DATTA, Calcutta, India. Filed Oct. 17, 1919. Serial No. 331,428. 1 Claim. (Cl. 23—24.)

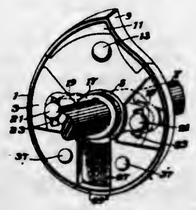
As a new process of manufacture the process of precipitation of remaining tannin and albumin from tea extract by means of basic or simple lead acetate or lead hydroxid after the partial precipitation of tannin and albumin by milk of lime for the production of caffein.

1,350,093. FILLING-REPLENISHING LOOM. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 1, 1919. Serial No. 274,392. 12 Claims. (Cl. 139—85.)



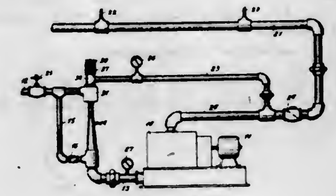
1. In a filling replenishing mechanism for looms, the combination of a rotary hopper adapted to support filling carriers, a transferrer, an abutment against which a filling carrier bears when in position for transfer, a filling carrier support underlying the filling carrier when in transferring position and adapted to yield downwardly to permit the filling carrier to pass, and an arm carrying the filling carrier support mounted to permit said support to move bodily at substantially right angles to the path of movement of said transferrer to prevent a break when during transfer the filling carrier is not in proper transferring position.

1,350,094. CAM FOR LOOMS. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 14, 1919. Serial No. 277,068. 5 Claims. (Cl. 74—1.)



1. A picker cam comprising a hub portion, a circumferential flange portion and a web portion extending between said hub and flange portions; said cam having a radial passage of less width than the diameter of the hub and extending outward from the interior of said hub, said web having plate receiving sockets formed in a face thereof upon each side of said passage, a bridge plate adapted to span the radial passage in the cam and provided with wing portions snugly fitting said sockets, said sockets constructed to entirely surround the edges of said wing portions to retain the bridge plate against lateral displacement in any direction, and means for securing said wing portions within said sockets.

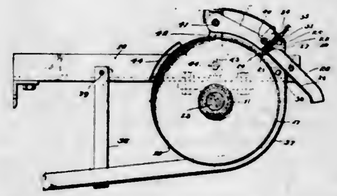
1,350,095. METHOD AND APPARATUS FOR UNLOADING PUMPS. WILLIAM BARTON EDDISON, Irvington, N. Y., assignor to The Surface Combustion Co., Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 11, 1918. Serial No. 221,652. 16 Claims. (Cl. 103—54.)



1. The method of operating a positive pressure pump against substantial pressure resistance, comprising diverting unused fluid discharged by the pump in an amount which varies inversely with variations in the amount of compressed fluid utilized, and applying energy of said unused fluid to raise the pressure of intake fluid to reduce the load on the pump.

10. The combination with a pump, of a Venturi tube interposed in the fluid supply line leading to the pump inlet, a by-pass around said Venturi tube provided with a check valve, a by-pass leading from the discharge side of the pump to a nozzle set to discharge into the throat of the Venturi tube, and a valve controlled according to the pressure on the discharge side of the pump for controlling the flow of fluid through said last mentioned by-pass.

1,350,096. PINEAPPLE-MEAT ERADICATOR. GEORGE EDWIN FISHER, Honolulu, Hawaii. Filed Apr. 6, 1918. Serial No. 227,007. 4 Claims. (Cl. 146—11.)

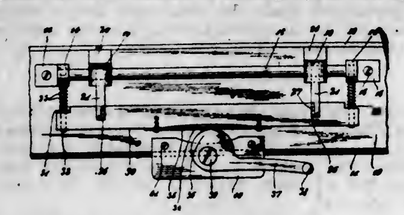


2. In a machine of the class described, the combination with a rotary drum, of means for flattening pineapple shells against the drum by pressure on the inner face of the shells causing an initial separation of the meat from the shell and a knife arranged to the rear of said means to cut and further lift the pineapple meat from the shells.

1,350,097. WORK-HOLDER. FRANK B. GLOVER, Brooklyn, N. Y. Filed Apr. 8, 1919. Serial No. 288,622. 7 Claims. (Cl. 90—60.)

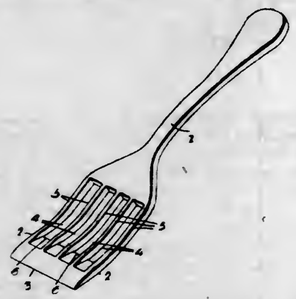
1. A work holding fixture comprising a level rectangular, slidably mounted base, two or more rigid horizontal jaws movably mounted on said base to extend transversely over its upper surface, said jaws having

level lower surfaces, and means for forcing objects against the lower surfaces of said rigid jaws whereby the



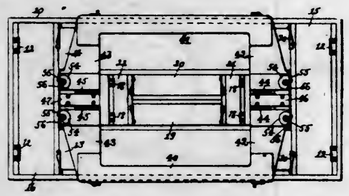
objects may be held so that their upper surfaces are invariably at a fixed distance from said base, irrespective of their diameters.

1,350,098. MIXING-KNIFE. JOHN L. HESSEY, Philadelphia, Pa. Filed Jan. 22, 1920. Serial No. 353,223. 3 Claims. (Cl. 30—22.)



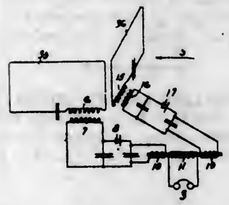
2. A mixing knife consisting of a handle and a parallel sided concave body portion, the latter having a relatively sharp straight cutting edge at right angles to its sides and having relatively large longitudinally extending slots, the forward walls of said slots being beveled to constitute cutting edges.

1,350,099. KNOCKDOWN TOOL-BOX. PELEG T. HEWEY, Malden, Mass. Filed June 7, 1919. Serial No. 302,510. 5 Claims. (Cl. 217—15.)



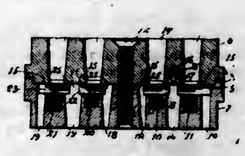
1. A tool box of the character described, comprising a bottom wall, side and end walls hinged thereto to be folded into a position substantially parallel with said bottom wall and to be folded into an upright position to form an outer compartment, means for locking said side and end walls in fixed relation in their upright position, a second set of side and end walls hinged within the outer compartment, means for locking the side and end walls of said second set in their upright position in fixed relation to form an inner compartment, a handle composed of members pivotally connected at their opposite ends to the said bottom wall between the end walls of said inner and outer compartments and foldable in opposite directions substantially parallel with said bottom wall, and means for securing said handle members in fixed relation in their upright position.

1,350,100. RADIOSIGNALING. JOHN L. HOGAN, Jr., Brooklyn, N. Y., assignor, by mesne assignments, to International Radio Telegraph Company, a Corporation of Delaware. Filed Nov. 27, 1916. Serial No. 133,656. 3 Claims. (Cl. 250—20.)



3. In a radio signal receiving system, the combination of two wave absorbing systems having the same natural period, one of which is arranged to absorb little or no energy from waves arriving from a certain direction and the other arranged to absorb a relatively greater amount of energy from the waves arriving from that direction whereby the ratio of static strength to signal strength is different in one absorbing system from that in the other, a receiving circuit connected to said two absorbing systems arranged to substantially neutralize the effects of static in said circuit, and an indicator responsive to the signal waves.

1,350,101. PLATE-VALVE CONSTRUCTION. JOHN G. KELLER, Milwaukee, Wis., assignor to The Vilter Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 17, 1919. Serial No. 283,194. 6 Claims. (Cl. 251—119.)



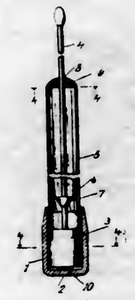
2. A valve construction, comprising a two part casing member forming a tight peripheral closure and having passageways axially extending therethrough, one of said member parts having an annular valve seat and the other member having an annular valve recess and an annular spring recess, a flat ring-shaped valve within the valve recess and engaging the valve seat, a coiled spring formed of flat material positioned within the spring recess for holding the valve yieldingly in closed position, and means for holding the two parts of the two part casing member together.

1,350,102. THROTTLE-VALVE FOR FLUID-PRESSURE TOOLS. HENRY J. KIMMAN, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 21, 1919. Serial No. 318,936. 11 Claims. (Cl. 121—35.)



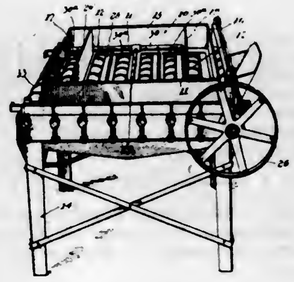
1. The combination of a throttle valve and means for operating the same including a member operatively connected with the valve, and a device having a rotary and a radial movement and adapted to be pressed into operative relationship with said member and then when rotated to actuate the latter to cause operation of the throttle valve.

1,350,103. TOY. GOTTHILF LEHMANN, New York, N. Y. Filed Nov. 7, 1919. Serial No. 336,434. 3 Claims. (Cl. 46—37.)



1. A toy comprising a barrel having one end open and the other end closed, a projectile adapted to rest freely in said barrel, a parachute carried by said projectile, said parachute being bodily adjustable lengthwise of the said projectile.

1,350,104. EXHAUSTER. HARRY W. LOWE, Omaha, Nebr., assignor, by mesne assignments, to Sprague Canning Machinery Co., a Corporation of Illinois. Filed Feb. 19, 1917. Serial No. 149,536. 11 Claims. (Cl. 126—272.)



1. A can conveying mechanism comprising a plurality of rotatable members, each having a helical cam for engaging the cans to move them along and rotatable means carried by one of said members for transferring the cans from one member to another.

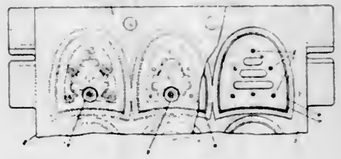
2. A can conveying mechanism comprising a plurality of rotatable members, each having a helical cam for engaging the cans to move them along and rotatable cam means carried by one of said members for transferring the cans from one member to another.

3. A can conveying mechanism for conveying cylindrical cans with their axes in substantially vertical position, comprising a rotatable member, having a helical cam for engaging the cans, to move them along, means for holding said cans with their axes in substantially vertical position, and a heating pipe extending alongside said rotatable member, against which the sides of the cans bear, for causing the cans to rotate about their own axes as they are moved along and for heating the contents of the cans.

4. A can conveying machine comprising a plurality of parallel, horizontal, elongated, rotatable members lying in substantially the same plane, each having a helical cam for engaging the cans, to move them along, and cam means carried by one of the members, adjacent one end thereof, for engaging the cans successively to push them over onto the adjacent rotatable member.

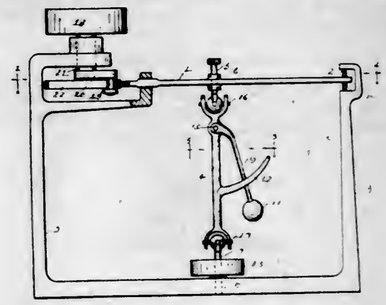
5. A can conveying machine, comprising a plurality of parallel, horizontal, elongated, rotatable members lying in substantially the same plane, each having a helical cam for engaging the cans, to move them along, cam means carried by one of the members, adjacent one end thereof, for engaging the cans successively to push them over onto the adjacent rotatable member, and a guide for supporting the cans in upright position, as they are being pushed over.

1,350,105. RUBBER-MOLD HARVEY F. MARANVILLE, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 9, 1918. Serial No. 253,155. 3 Claims. (Cl. 18—42.)



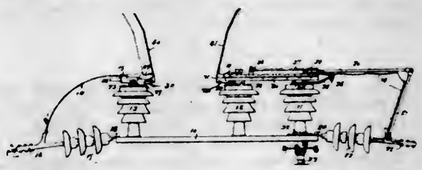
1. A mold for rubber heels or the like comprising top and bottom plates, a central plate provided with a cavity, passing through the plate, a raised edge about said cavity having a tight fit with the surfaces of said top and bottom plates and a vent located in one of said plates and communicating with the mold cavity.

1,350,106. ROTARY-MOTION MECHANISM. ADOLPH MARTINOICZ, Muskegon, Mich. Filed Mar. 6, 1920. Serial No. 363,700. 6 Claims. (Cl. 74—14.)



1. In mechanism of the character described; a swingable arm; means for swinging the arm; an approximately upright rotatable member rotatably connected to the arm; a weighted arm connected at its upper end to said member swingably in an approximately vertical plane.

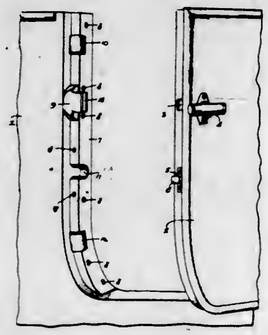
1,350,107. ELECTRIC SWITCH. MARSHALL P. MAXWELL, Brooklyn, and JOEL S. LAWSON, St. James, N. Y. Filed Jan. 4, 1918. Serial No. 210,383. 10 Claims. (Cl. 200—48.)



9. In an air gap switch, a fixed terminal having a movable arcing horn, a coöperating movable terminal and

a latching device associated with said horn for locking the latter to the movable terminal in the closed position of the switch.

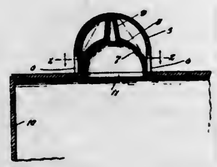
1,350,108. DOOR RABBET-STRIP. ERNEST R. MITCHELL, Philadelphia, Pa. Filed Oct. 13, 1919. Serial No. 330,449. 6 Claims. (Cl. 70—16.)



2. The combination of a supporting structure; a hollow rabbet strip mounted thereon; a striker plate extending into the hollow of said strip; with screws for holding said plate to the rabbet strip.

6. The combination of a hollow rabbet strip having an opening; a casing fastened in said rabbet strip and a corrugated spring element mounted in the casing with one of its convolutions adjacent the opening of the rabbet strip; with means engaging the ends of said spring element for connecting them to the rabbet strip.

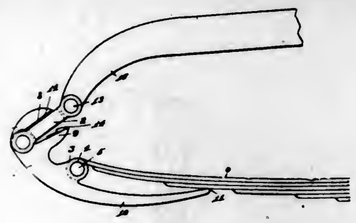
1,350,109. AIR-VENT. CARL F. NYSTROM, New York, N. Y. Filed Jan. 30, 1917. Serial No. 145,448. 2 Claims (Cl. 220—44.)



1. An air vent of the kind described comprising an inner hollow member having an opening whereby communication with its interior is established and having a sloping outer surface and a hollow outer member covering said inner member and having its one end open and fitted over said inner member in surface contact therewith, said outer member having an aperture located at the foot of the slope of said inner member whereby communication between the atmosphere and the interiors of said inner and outer members is established.

1,350,110. COMBINED SHOCK-ABSORBER AND REBOUND-SNUBBER FOR VEHICLE-SPRINGS. GEORGE J. OLTSCH, South Bend, Ind. Filed Oct. 20, 1919. Serial No. 331,986. 6 Claims. (Cl. 267—19.)

1. In combination with a frame and a suspension spring, a combined shock absorber and snubber, said shock absorber and snubber comprising a compensating lever pivotally connected to the end of the suspension spring and formed beyond the spring connection with upper and lower contact faces, an arm rigid with the lever and having a fulcrumed bearing beneath the suspension spring, and a link pivotally connected to the frame and to the lever, said link operating between the contact faces.

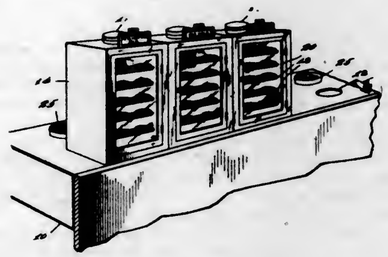


1,350,111. FUSE-PLUG. HENRY T. PAISTE, Philadelphia, Pa., assignor to H. T. Paiste Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 21, 1917. Serial No. 208,301. 11 Claims. (Cl. 200—130.)



1. The combination in a fuse plug of a body; a fuse-carrying element removably but non-rotatably mounted in said body with its fuse inclosed thereby; terminals respectively on the body and on said element normally connected through the fuse; and a member extending through the fuse-carrying element, mechanically and separably connecting it to the body.

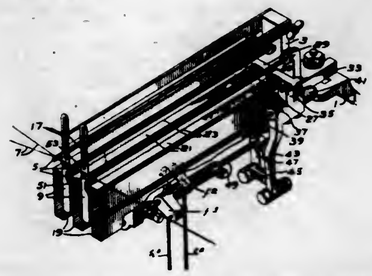
1,350,112. DISPENSING APPARATUS. FLOYD E. PAYNE, Indianapolis, Ind. Filed Dec. 2, 1919. Serial No. 341,949. 3 Claims. (Cl. 211—8.)



1. A food-dispensing device, comprising a hollow table having two series of perforations, one for the reception of supply vessels, and a series of dispensing cabinets having hollow walls placed in communication with the other series of openings of the table, said dispensing cabinets having independent front and rear doors giving access to the interior thereof either from the customer's side or the service side.

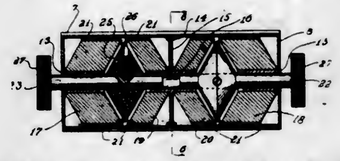
3. A dispensing cabinet having hollow walls capable of being placed in communication with the interior of a supporting table, said cabinet having doors in its front and rear faces, and having an interior support upon which dispensable viands may be placed.

1,350,113. WARP STOP-MOTION FOR LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 27, 1918. Serial No. 268,562. 3 Claims. (Cl. 139—92.)



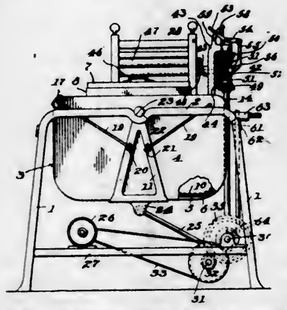
3. In a warp stop motion for looms, the combination of bridge bars having an unobstructed space between them through which lint and fluff may pass, feelers mounted for movement over the top of the bridge bars, means including a rock-shaft and link connections for moving the feelers over the bridge bars, and a series of detectors each having a recess with an outwardly divergent wall into which the feelers move when the detectors are supported by non-faulty warp threads.

1,350,114. CALENDAR. PINCUS RICE, New York, N. Y. Filed Sept. 10, 1919. Serial No. 322,894. 6 Claims. (Cl. 40—117.)



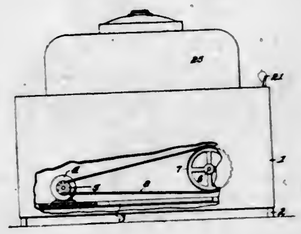
1. In a perpetual calendar operated by frictional devices, a main casing having side bearings, a center wall having a through going center bearing alined with said side bearings, two hand operated shafts, each passing through one side bearing and into the center bearing, double-cone-shaped friction members rigidly attached to said shafts between the bearings, dating members rotatably mounted upon the outer surfaces of the bearings and overhanging the same, permitting their engagement by said friction members.

1,350,115. WASHING-MACHINE. WILLIAM H. SARGENT, St. Louis, Mo., assignor to Wayne Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 4, 1919. Serial No. 287,564. 5 Claims. (Cl. 259—75.)



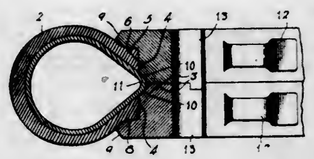
1. In a machine of the class described, the combination of a frame, an elongated receptacle, a bracket mounted on each side of said receptacle, securing means engaging the edges of each side toward each end, for clamping each bracket in position, said brackets having trunnions supported on said frame to enable the receptacle to swing on said frame, and means attached to one of said brackets for oscillating said receptacles.

1,350,116. WASHING-MACHINE. WILLIAM H. SARGENT, St. Louis, Mo., assignor to Wayne Manufacturing Company, St. Louis, Mo., a Corporation. Filed Oct. 17, 1919. Serial No. 331,412. 14 Claims. (Cl. 259—73.)



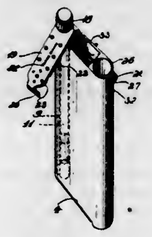
1. A washing machine comprising a casing, having an opening in its top and provided on its interior, and below the top, with rocker supports, a rocker-frame comprising rockers mounted on said supports and a tub holder, a tub insertible through said opening and adapted to be received by said holder, said rocker-frame, when in position on said supports, being located below the top of said casing, and means for rocking said rocker-frame.

1,350,117. BEAD-FORMING RING FOR MOLDING PNEUMATIC TIRES. JOHN SCHMIDT, New Brunswick, N. J., assignor, by mesne assignments, to Howe Rubber Corporation, a Corporation of Delaware. Filed Aug. 25, 1919. Serial No. 319,599. 11 Claims. (Cl. 18—45.)



1. A tire bead-forming ring having its inner corner edge cut away.

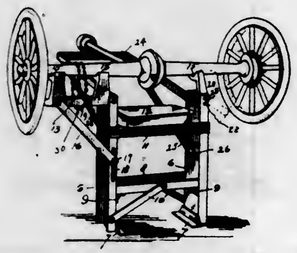
1,350,118. RECEPTACLE. THOMAS C. SPELLING, New York, N. Y. Filed Sept. 7, 1917. Serial No. 190,112. 6 Claims. (Cl. 120—57.)



1. A receptacle comprising an ink container, a pen container, an intermediate compartment for other materials useful in writing with a pen, and means for securing.

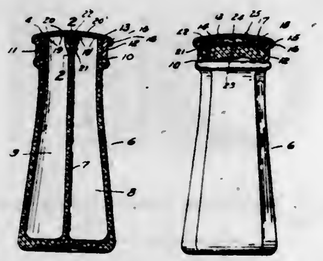
locking and sealing the ink container and compartment, said means consisting of a flat arm journaled around the neck of the pen container, the arm extending over the compartment and ink container, carrying sealing means for both, and having a terminal acutely bent at its extremity, to facilitate its engagement with a relatively sharp edged enlargement on the ink container.

1,350,119. AXLE-STAND. JOSEPH H. STALEY, Columbus, Ind. Filed Nov. 24, 1919. Serial No. 340,375. 7 Claims. (Cl. 29—89.)



1. In an axle-stand, a body-portion, a member having a pair of jaws at different distances from said body-portion, means for adjusting said member to vary the relative horizontal positions of the jaws to fit the taper of the axle-housing, and an additional axle-support attached to said body-portion.

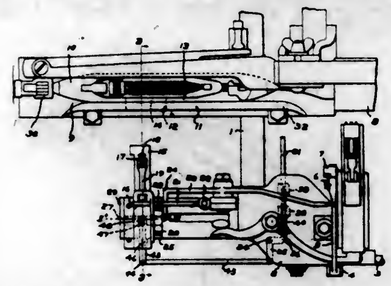
1,350,120. CONDIMENT-HOLDER. ALBERT STONE, Seattle, Wash. Filed May 24, 1920. Serial No. 383,691. 3 Claims. (Cl. 65—45.)



1. In a condiment holder, the combination with a receptacle having a partition dividing it into separate compartments, a perforated cap for said receptacle, and a perforated cover plate mounted upon the cap for rotary movements with respect thereto, of a packing bar mounted for longitudinal rocking movements upon said partition and engageable with the under surface of the cap to close the opening between the partition and the cap.

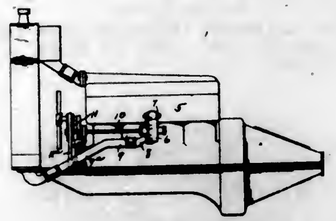
1,350,121. FEELER-LOOM. MELVIN L. STONE, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 5, 1919. Serial No. 335,843. 11 Claims. (Cl. 139—85.)

1. In a feeler loom, the combination of a feeler stand mounted for movement in a direction transversely of the loom, a feeler member movable with the feeler stand, a shuttle detector constructed and arranged to be engaged and displaced by the shuttle as it moves frontwardly on a detecting beat, and connections between the shuttle de-



tector and feeler stand for moving the latter transversely of the loom when, on a detecting beat, the shuttle detector finds the shuttle improperly boxed.

1,350,122. PUMP ATTACHMENT FOR AUTOMOBILES. WILLIAM THOMAS STRATTON, Billings, Mont. Filed Feb. 19, 1920. Serial No. 359,764. 2 Claims. (Cl. 123—175.)



2. A device of the character described comprising a pump, means for attaching the same to the side of a Ford water jacket to have connection therewith, a shaft extending in substantial parallelism with the side of the engine for driving said pump, a pulley on said shaft, a bracket support from the engine and capable of vertical adjustment with respect thereto, and a bearing horizontally adjustable upon the bracket within which said shaft is mounted.

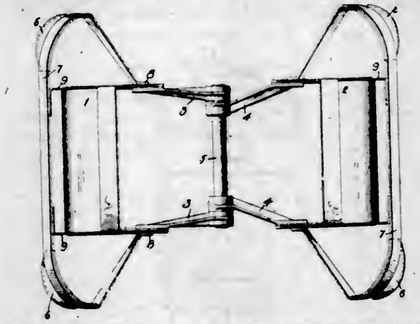
1,350,123. ARTICLE-HANDLER. ANOSTOPOULO D. THEODORE, whose full legal name is Theodore D. Anagnostopoulos, Eunice, La. Filed June 15, 1918. Serial No. 240,266. 1 Claim. (Cl. 294—19.)



In an article handler, the combination with an elongated tubular guiding handle comprising a plurality of axially alined united threaded sections, whereby the guiding handle may be shortened or extended, of a pole movably slidably in said guiding handle having a handle

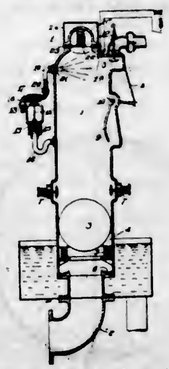
at one end to limit the pole in its movement in one direction, said pole comprising a plurality of rod sections axially arranged, the adjacent end of said rod sections having reduced threaded parts, a sleeve interiorly threaded, and adjustably connecting said reduced threaded parts for uniting said rod sections, whereby the movable rod may be shortened or lengthened correspondingly to the guiding handle, an additional sleeve interiorly threaded connected to a certain reduced threaded part of an end rod section, and a member threaded into one end of said additional sleeve, and provided with spaced longitudinal extensions resiliently movable toward and from each other, said extensions terminating in rigid intersecting pivoted elements extending at slight obtuse angles from the resilient extensions, said extensions having parts, adjacent where the elements merge therefrom, adapted to contact and coöperate with the extremity of the interior of one end of said guiding handle, thereby limiting the pole in its movement in the opposite direction, said resilient extensions when moved toward and from each other by contact with the extremity of the guiding handle, adapted to actuate said elements.

1,350,124. EXCAVATING-BUCKET. WILLIAM M. VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed Jan. 22, 1920. Serial No. 353,175. 8 Claims. (Cl. 37—30.)



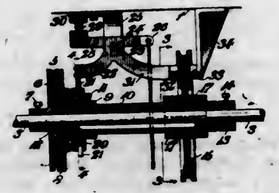
1. The combination with a clam shell bucket having opposing jaws, of cutting members secured to the jaws but spaced away therefrom.

1,350,125. INTERNAL-COMBUSTION PUMP AND COMPRESSOR. WILFRED FOULSTONE VERNON, Walton-on-the-Hill, England, assignor to Humphrey Gas Pump Company, a Corporation of New York. Filed Sept. 4, 1914, Serial No. 860,308. Renewed Jan. 17, 1920. Serial No. 352,234. 5 Claims. (Cl. 160—1.)



1. In combination with a play pipe for the reciprocation of a liquid column of sufficient bulk and path of travel to acquire useful momentum, a combustion chamber connected with the play pipe, means for spraying liquid fuel into the combustion chamber at the end of the compression stroke comprising a pump operated to inject fuel by the direct compression pressure of the instroke of the liquid column.

1,350,126. MOTOR ATTACHMENT FOR SEWING OR OTHER MACHINES. EMANUEL WAGMAN and HARRY BRUSSELL, Philadelphia, Pa. Filed Jan. 21, 1919. Serial No. 272,257. 5 Claims. (Cl. 74—46.)



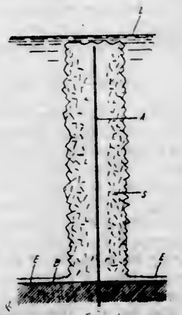
1. In an operating attachment for sewing or other machines, a main power shaft, a clutch comprising members one fixed and the other slidable with reference to said shaft, a main driving member spaced from said clutch, a pivoted member having wings for frictional coöperation with said driving member and the slidable member of the clutch, and a buffer for coöperation with the driving member in opposition to the wing that coöperates therewith.

1,350,127. INKING-ROLL TRUCK. LEROY J. WARNER, Fostoria, Ohio. Filed Feb. 26, 1920. Serial No. 361,373. 3 Claims. (Cl. 101—348.)



1. An inking roll truck comprising a hub member, a pair of collars mounted for relative axial movements thereon and having their adjacent surfaces of opposed conical form, a set of balls encircling the hub member between the collars in opposed contact with their opposed conical surfaces, an expansible band encircling said balls and resting thereon, an expansible rim without the said band, and means coöperating with the hub member and operable to effect a relative axial adjustment of the collars and a consequent radial adjustment of the balls, band and rim members.

1,350,128. PROCESS OF DEPOSITING SODA, &c. WILFRED W. WATTERSON, Bishop, Calif. Filed Sept. 8, 1919. Serial No. 322,567. 13 Claims. (Cl. 23—13.)



1. The herein described process of obtaining salts from solution, embodying the crystallization of such salts onto

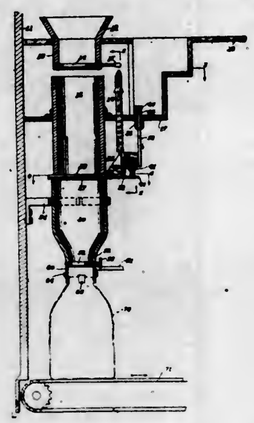
a relatively small stick, allowing such crystallization to continue until the deposited mass is comparatively large relatively to the mass of the stick, and then breaking up the whole mass, including the stick.

1,350,129. RAILWAY-JOINT. WILLIAM YOUNG, Detroit, Mich. Filed Jan. 24, 1920. Serial No. 353,892. 3 Claims. (Cl. 238—209.)



1. A rail joint, comprising rails having lapped and thickened ends fastened together, and fish-plates connecting the rails and recessed on the inner side to inclose said thickened parts.

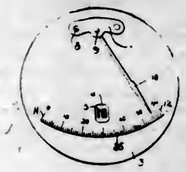
1,350,130. SUGAR-PACKING MACHINE. JOSEPH ZAKARKA, Brooklyn, N. Y. Filed Dec. 30, 1919. Serial No. 348,446. 2 Claims. (Cl. 265—55.)



1. An apparatus of the type described, comprising a hopper, a measuring chute below said hopper, a scale having its pan divided into two halves and adapted to close the bottom of said chute, a delivery funnel below said chute, and means for separating the two halves of said pan, said means comprising gear segments rigid with the respective halves of the pan, a manually operable rack bar, and gear connection between said rack bar and gear segments.

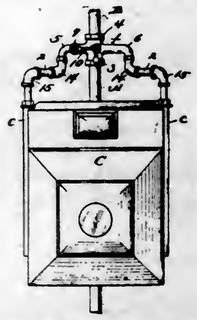
1,350,131. CLOCK. CHESTER HENRY ANDERSON, Los Angeles, Calif., assignor of one-fourth to Cortland L. Hill, and two-fourths to H. Richard Kleinbach, Los Angeles, Calif. Filed June 20, 1919. Serial No. 305,451. 2 Claims. (Cl. 58—125.)

1. A clock comprising a mechanism for rotating a shaft once in sixty minutes, a cam rigidly secured to said shaft and rotated thereby, a dial having arc-shaped graduations thereon indicating the minutes of an hour, an opening adjacent said graduations, a pointer adapted to move over said graduations, a shaft rigidly secured to the pointer and extending through the dial, a lever rigidly secured to said shaft, a pin extending from said lever and engaging the face of said cam whereby as the same is rotated said lever will be swung in one direction so that the pointer will be gradually moved over said graduations, a spring acting on said lever for quickly swinging the lever and the pointer carried thereby back to the starting point at the end of each sixty minutes, an hour dial formed with numbers thereon from one to twelve and arranged so that



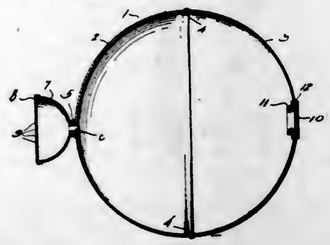
one of the numerals may be seen through said opening, said hour dial being formed with twelve notches thereon, a pawl pivotally mounted on said lever, a pin extending from said pawl adapted to engage the notches in said hour dial, and a spring for maintaining said pin against said hour dial.

1,350,132. FITTING FOR DOMESTIC GAS-METERS. WALTER A. ASHLEY, Chillicothe, Ohio. Filed June 13, 1919. Serial No. 303,888. 4 Claims. (Cl. 285—3.)



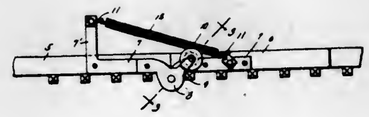
1. A fitting for fluid meters comprising a manifold having a central portion provided with inlet and outlet passages and a web separating said passages and having arms projecting from said central portion at opposite sides of said web, said arms having down-turned connecting portions and having their axes in a common plane with the axes of said passages, coupling pipes connected to said arms adapted to swing about the connecting portions thereof, and means for connecting said pipes when in adjusted position, to the inlet and outlet of the meter respectively.

1,350,133. CLOTHES-SPRINKLER. ROLAND A. BEATTY, New York, N. Y. Filed July 18, 1917. Serial No. 181,386. 1 Claim. (Cl. 299—90.)



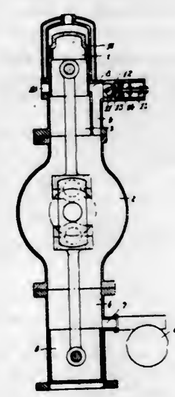
In a sprinkling device including a semi-spherical cup member of rigid material, a sprinkler head attached thereto, a second semi-spherical cup member of rubber connected to the first to form a sphere, the rubber member having an opening, a valve casing in the form of a device of rigid material, a pair of annular flanges on the outer surface in spaced relation said flanges receiving the edges defining the opening when the sleeve is inserted therein, an annular flange upon the inner surface of the sleeve and a disk pivotally mounted within the sleeve and bearing against the last mentioned flange to form a closure.

1,350,134. GATE CLOSER AND SUPPORTER. ROBERT PEARCE BELLICAN, Natchez, Miss. Filed Apr. 22, 1920. Serial No. 375,795. 6 Claims. (Cl. 16—100.)



1. In combination with a fence and gate therefor, of a closure including a pair of pivotally connected plates rigidly secured to said gate and fence respectively, and means extending between said plates for closing the gate.

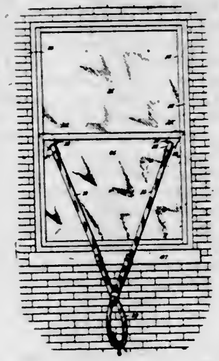
1,350,135. TWO-STROKE INTERNAL-COMBUSTION ENGINE. KARL ASSAR THEODOR BERG, Höganäs, Sweden. Filed Aug. 28, 1919. Serial No. 320,423. 2 Claims. (Cl. 123—73.)



1. A two-stroke internal combustion engine having a cylinder and pump casing and a closed crank case serving as a compression chamber intermediate the cylinder and pump casing, said engine being formed with a passage leading from the compression chamber and opening into the cylinder, a valve controlled air inlet opening into said compression chamber through said passage, and a gas inlet opening into the pump chamber.

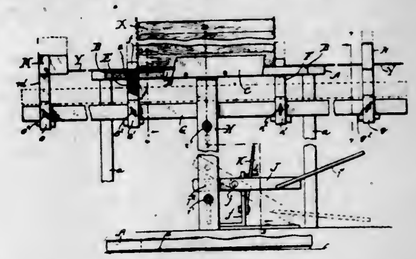
1,350,136. LIFE-PROTECTOR. PAUL BILLY, Linden, N. J. Filed Apr. 14, 1920. Serial No. 373,836. 9 Claims. (Cl. 20—72.)

1. A device of the class described comprising an angular plate adapted to be secured to the upper corner of a window sash with a leaf thereof projecting at an angle inwardly of the sash and a semi-tubular guide depending



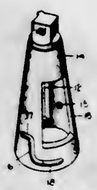
therefrom adapted for the reception of the window cord therethrough when the device is in use.

1,350,137. MEANS FOR BINDING SHIPPING-PACKAGES. SPENCER C. CARY and VINCENT RAGONA, Brooklyn, N. Y., assignors, by direct and mesne assignments, to Cary Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 9, 1918. Serial No. 221,571. 7 Claims. (Cl. 144—25.)



1. In a device for applying binders to shipping packages, the combination with a table, and work-locating devices thereon, of a carrier bar movable relatively to said table, a plurality of bending jaws mounted on said carrier bar for movement therewith, said bending jaws being slotted for the reception of a binder and said jaws being grooved for the reception of said binder after the latter shall have been bent relatively to a package, and means for imparting movement to the carrier bar and the bending jaws relatively to the table.

1,350,138. CUT-OFF AND RELIEF VALVE FOR AIR-BRAKES. EDWARD P. CLAUSS, Lyons, N. Y. Filed Aug. 1, 1919. Serial No. 314,623. 2 Claims. (Cl. 251—94.)



1. A cut-off and relief valve for air brake systems of trains comprising a valve casing having a passageway

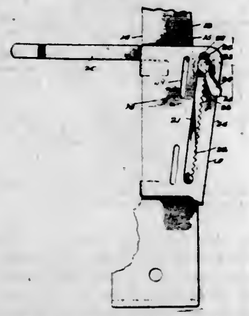
therethrough, a rotatable valve member having a passageway therethrough adapted to be brought into registry with the passageway in the casing when the valve member is open, said valve member having an aperture positioned substantially at right angles to the passageway through the valve member, said aperture merging into the passageway in said valve member and with a tortuous bleeding passageway in the face of the valve member, said tortuous passageway having a horizontal section positioned substantially diametrically opposite said aperture, a longitudinal section, and a second horizontal section extending beneath the passageway in the valve member, and a pair of bleeding ports arranged in the casing, one co-acting with said bleeding passageway, and the other with the port in the valve member.

1,350,139. SCREW-LOCK. WILLIAM H. CLOPTON, Washington, D. C. Filed Nov. 25, 1919. Serial No. 340,446. 4 Claims. (Cl. 151—32.)



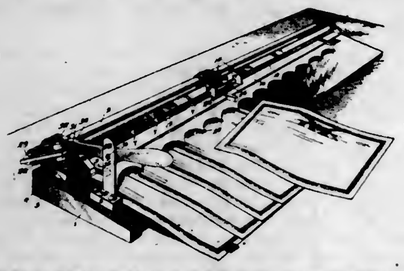
2. A lock for screws comprising a shell to receive the screw head, a member for fixedly securing the shell in position, and means adapted to be displaced into the screw head-slot.

1,350,140. AUXILIARY GRIPPER. CHARLES G. COPE, Pittsburgh, Pa. Filed Feb. 2, 1920. Serial No. 355,551. 5 Claims. (Cl. 101—408.)



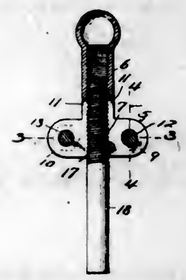
1. An auxiliary gripper having main-gripper-engaging means and retaining means movable in a line inclined with respect to said engaging means.

1,350,141. BINDER-BOARD. FRANK E. CROMPTON, Brooklyn, N. Y., assignor to Signature Company, New York, N. Y., a Corporation of New York. Filed Feb. 10, 1919. Serial No. 276,004. 9 Claims. (Cl. 129—35.)



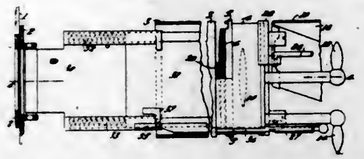
9. In a binder board, a bed plate for receiving a binder for a group of documents, a shaft oscillatably mounted on said bed plate, a lever arm mounted on said shaft, means mounted on said shaft and coöperating with said bed plate for opening the grippers of said binder, and a group index plate supported from said oscillatory shaft and movable by said shaft into and out of position to indicate the relative positions of said group of documents in said binder.

1,350,142. ADJUSTABLE SPLIT LOCK-NUT OR UNION. HARRY E. DICKINSON, San Antonio, Tex. Filed Sept. 11, 1919. Serial No. 323,073. 2 Claims. (Cl. 151—21.)



1. An adjustable split lock nut or union of the character specified, comprising a tubular threaded shaft having a head at one end extending across the same equally from the center of the shaft and in a plane at right angles to the latter, the opposite end of the shaft being formed with a closed rigid impact receiving means, the threaded bore of the shaft being continued through the center of the head, the head being centrally split throughout its length to provide opposite pairs of end jaws, the split of the head being continued part way through the length of the shaft at diametrically opposite portions of the latter, and clamping bolts extending transversely through and reversely arranged in the pairs of jaws.

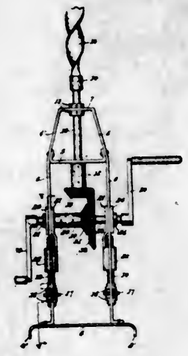
1,350,143. COLOR CINEMATOGRAPHY. FRANK WORDSWORTH DONISTHORPE, Barnes, England. Filed Jan. 15, 1917. Serial No. 142,803. 1 Claim. (Cl. 88—16.4.)



A cinematographic projector, comprising a film of standard width in which there are pairs of images side by side with the horizontal lines of the objects parallel to the length of the film, a pair of focusing lenses in the projector, a gate in the projector through which the film passes vertically, a partition between the focusing lenses extending to the film, the said partition comprising a sliding portion and a pivoted portion which is laterally adjustable, and means by which the image of the film is optically rotated through 90°.

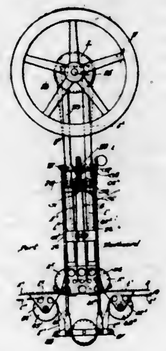
1,350,144. BREAST-DRILL. KAZIMIERZ DROZD, Willock, Pa. Filed Dec. 22, 1919. Serial No. 346,738. 2 Claims. (Cl. 145—66.)

1. A breast drill comprising a frame, a drill shaft journaled longitudinally thereof, a power shaft journaled transversely of said frame, a gear fixed to the inner end of the drill shaft, a sleeve adjustably fixed to the power shaft, relatively large and small gears carried by said sleeve and movable with the sleeve over the power shaft to aline either of the large or small gears with the power shaft gear, means for shifting the power shaft longitudinally of the frame to move either of said gears into meshing contact with the gear upon said power shaft, said last named means comprising a pair of screws journaled in the frame and connections between said power shaft and screws.



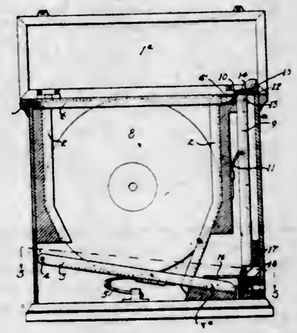
2. A breast drill comprising a frame, a drill shaft journaled longitudinally thereof, a power shaft journaled transversely of said frame, a gear fixed to the inner end of the drill shaft, a sleeve adjustably fixed to the power shaft, relatively large and small gears carried by said sleeve and movable with the sleeve over the power shaft to aline either of the large or small gears with the power shaft gear, means for shifting the power shaft longitudinally of the frame to move either of said gears into meshing contact with the gear upon said power shaft, said last named connections including bearing plates for said power shaft, block hangers carried by said bearing plates, adjusting screws movable relative to said frame and co operating with said block hangers to shift the bearing plates and power shaft with the gears supported thereon.

1,350,145. CONTROLLING DEVICE FOR AEROPLANES. CHARLES RICHARD FAIREY, Hayes, England. Filed Apr. 23, 1919. Serial No. 292,168. 1 Claim. (Cl. 244—29.)



In an aeroplane whereof the wings have trailing marginal portions of variable inclination, control cables, a control-pillar having a fixed section and a movable section, means for varying the effective length of the control-pillar, a manually-operable drum mounted to rotate on the movable section of said control-pillar, said control cables being connected with the trailing marginal portions of the respective wings and wound from opposite directions upon said manually-operable drum, balance wires, a pair of guide-pulleys mounted on said fixed section of the control-pillar, a single guide-pulley carried by said movable section of the control-pillar, said balance wires being connected with the trailing marginal portions of the respective wings and led around said pair of guide-pulleys and led from opposite directions around said single guide-pulley, said single guide-pulley being mounted on said movable section in a position relatively to said pair of guide-pulleys to decrease the distance separating the centers of the pair of guide-pulleys from the center of the single guide-pulley when the effective length of the control-pillar is increased, and vice versa.

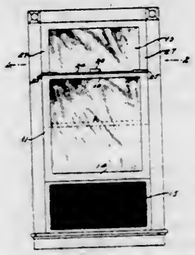
1,350,146. RECORD-CABINET. EDWARD CHARLES FREMAUX, Rayne, La. Filed Oct. 1, 1919. Serial No. 327,691. 9 Claims. (Cl. 211—16.)



1. In a dispensing cabinet, a plurality of article holding compartments, a cover for each compartment, a lock for each cover, an article support in each compartment adapted to project the article beyond the compartment upon the unlocking of the cover thereof, and means coacting with the article support for collectively locking the covers of the remainder of the compartments upon the unlocking of the cover of one compartment.

2. In a dispensing cabinet, a plurality of article holding compartments, a cover for each compartment, a lock for each cover, an article presenting support in each compartment adapted to project the article beyond the compartment upon the unlocking of the cover thereof, means for collectively locking the remainder of the compartments upon the unlocking of one compartment, and means cooperating with the article support for maintaining any of said compartments inactive.

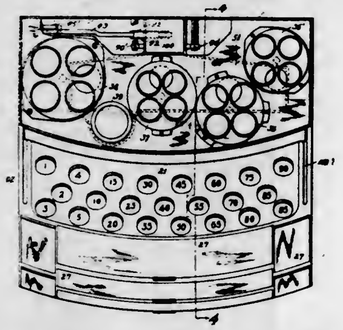
1,350,147. WINDOW ATTACHMENT. JOSEPH E. GALBRAITH, New York, N. Y. Filed Oct. 29, 1919. Serial No. 334,297. 2 Claims. (Cl. 20—40.)



1. A window attachment in the form of a covering means adapted to be placed on top of the rail of the lower sash and fitting against the upper sash, the said covering means comprising side plates having flanges at the inner ends and a box extending over the sash fastener

and provided at its sides with flanges slidingly engaging the said flanges on the side plates to connect the side plates and the box and to allow of removing the box for gaining access to the sash fastener.

1,350,148. COIN CHANGING AND DELIVERING MACHINE. JOSEPH GARAMI, Newark, N. J. Filed May 22, 1918. Serial No. 236,045. 7 Claims. (Cl. 133—4.)



1. A machine of the class described including a casing, groups of coin-holding tubes therein disposed, two of the groups being associated to constitute a double group, each group comprising four tubes arranged about a common center, a coin-discharging disk operatively arranged under each group and adapted to separate coins one by one from the members thereof successively and operable only in one direction, and key-operated mechanism for actuating one or more of said coin-discharging disks to effect the separation of coins from one or more groups at each operation, said mechanism embodying means for separating coins alternately from the members of the double group.

1,350,149. PROCESS OF PRODUCING NITRID OF ALUMINIUM FROM MATERIALS CONTAINING ALUMINIC OXID. VIKTOR GERBER, Zurich, Switzerland. Filed Jan. 28, 1920. Serial No. 354,641. 7 Claims. (Cl. 204—63.)

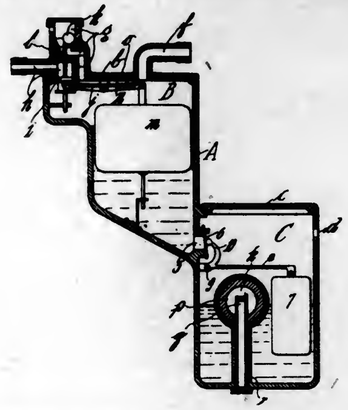
1. The process of producing nitrid of aluminium from materials containing aluminic oxid consisting in treating the molten aluminic oxid produced from said materials with a reducing agent and a nitrogenous gas and in supplying at the same time an amount of electric energy necessary for carrying out the reduction.

1,350,150. PROCESS OF PRODUCING ALUMINIUM FROM ALUMINIC OXID. VIKTOR GERBER, Zurich, Switzerland. Filed Jan. 28, 1920. Serial No. 354,642. 9 Claims. (Cl. 204—63.)

1. The process of producing aluminium, which comprises forming a melt of alumina, subjecting the same to reduction by the action thereon of carbon and hydrogen and supplying electric energy for the reduction.

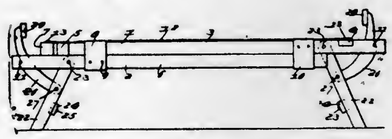
1,350,151. VACUUM-FEED CARBURETER. PIERRE P. GILLES, Springfield, Mass. Filed Oct. 14, 1918. Serial No. 258,091. 4 Claims. (Cl. 158—36.)

1. A vacuum feed carbureter, comprising, a casing provided with chambers at different levels and a passage affording communication between the lower portion of the upper and the upper portion of the lower chamber, a float in the upper chamber, means controlled by said float to draw fuel into the upper chamber, an atomizing device in the lower chamber, a float in the latter, a single clack valve controlling said passage and opening into the lower chamber, and means operable from the second float to close said valve when the fuel in the



lower chamber reaches a predetermined level and to release said valve when the fuel in the lower chamber falls below such level.

1,350,152. FOLDING COT. ORREN J. GREEN, Afton, N. Y. Filed Nov. 29, 1918. Serial No. 264,676. 1 Claim. (Cl. 5—5.)



A folding cot including a pair of superposed frames embodying cross bars and slidably connected side bars, a spring connected to the upper faces of the outer cross bars of the frames, cross rods spanning the side bars of both frames adjacent the outer ends thereof, legs arranged in pairs and pivoted to the inner faces of the side bars of the frames adjacent the outer ends thereof, arcuate bracing and supporting members pivotally connected to the legs at an intermediate point and lying against the said side bars, and end pieces spanning the bracing and supporting members at the ends remote from those connected with the legs, the arcuate bracing and supporting members being cut away from the edges engaging the cross bars to provide shoulders for abutting relation with said rods when the legs are in extended position.

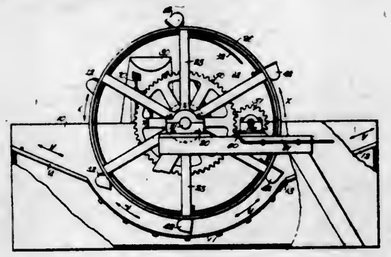
1,350,153. GUN-SIGHT. ELI E. GREGORY, Lewisport, Ky., assignor to Rangefinding Sight Company, New York, N. Y. Filed Dec. 14, 1917. Serial No. 207,142. 4 Claims. (Cl. 33—47.)



1. The combination with an implement which is to be aimed, of a sight mounted on the forward portion of said implement and presenting transversely to the line of sight an outline having upwardly converging sides and a base wider than the interpupillary distance of the person

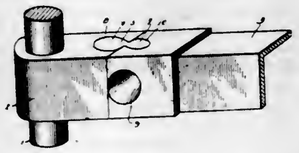
aiming, said sight, when the object aimed at is viewed by the person with both eyes, producing the optical effect of two images corresponding to the sight outline and spaced laterally of the line of sight, said images overlapping and thus forming a resultant triangular image varying in size with the range of the object, and having its apex in the line of sight.

1,350,154. SAND-SEPARATING APPARATUS. HAROLD LOUIS HAMILTON, Fargo, N. D. Filed Aug. 29, 1918, Serial No. 251,946. Renewed June 7, 1920. Serial No. 387,156. 8 Claims. (Cl. 83—86.)



1. A sand separating apparatus, comprising a tank having an inlet for the sand bearing water and an overflow for the water, a revoluble sand separating wheel extending into the said tank and provided with hinged buckets adapted to pass through the sand bearing water to dip the sand out of the water, means for gradually dumping the buckets to discharge the water contained in the buckets and to then discharge the sand out of the buckets, and means for receiving the discharged sand and carrying it away from the machine.

1,350,155. BED. RUDOLPH F. HELLWEG, El Paso, Tex. Filed Jan. 16, 1920. Serial No. 351,814. 3 Claims. (Cl. 5—55.)



1. In a bed corner, a frenching secured to the corner post of the bed and having a tapering recess largest at its upper end and tapering to its lower end, an angle rail, a block on the angle rail having a pair of recesses at right angles to each other, said recesses largest at one end and tapering to their other ends, and a coupling comprising two coupling tongues integral with each other oppositely disposed and tapering from end to end, said coupling adapted to be positioned in the recess of the frenching and in either of the recesses of the rail block.

1,350,156. TURNED SHOE. FRANK W. HOMAN, Philadelphia, Pa. Filed Feb. 11, 1920. Serial No. 357,920. 3 Claims. (Cl. 36—34.)

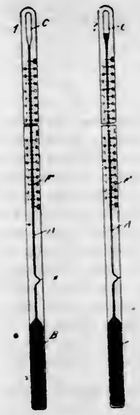


1. A shoe comprising a covered heel, a forepart-and-shank sole-section partly overlapping by its rear extremity the forward portion of said heel and attached thereto by fastening means engaging with the overlapping portions, and an upper with which the combined sole-section and heel are connected by fastenings engaging with the sole-section and passing through the upper portion of the heel-covering around the sides and back of the heel.

1,350,157. PROCESS FOR TREATING CELLULOID PRODUCTS. FREDERICK W. HORTON, Hackensack, N. J. Filed Jan. 13, 1920. Serial No. 351,196. 3 Claims. (Cl. 252.)

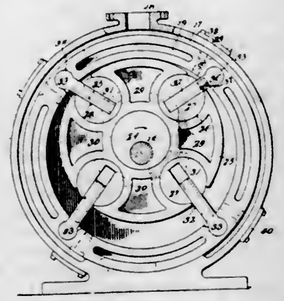
1. The process of recovering silver from photographic film which consists in dissolving the film in caustic alkali causing the silver to be precipitated out therein, and separating the precipitated silver from the solution.

1,350,158. METASTATIC THERMOMETER. EDWARD N. HURLBUT, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Sept. 21, 1916. Serial No. 121,384. 4 Claims. (Cl. 73—52.)



1. A metastatic thermometer comprising a tube containing heat expansive liquid and having a portion of its bore modified in form without material variation of its cross sectional area to permit the liquid to pass freely in either direction when held in a vertical position and to cause the liquid column to break or separate when the tube is placed in a generally hroizontal position, a supplemental reservoir for surplus liquid at one end of the tube communicating with the board, a graduated scale for the tube, and a bulb at the opposite ends of the latter communicating with the bore.

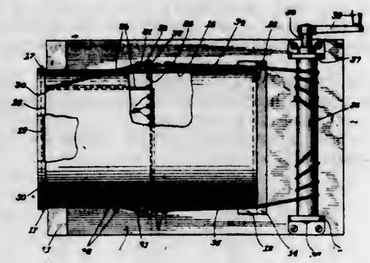
1,350,159. AIR-COMPRESSOR. SVEN A. JOHNSON, Brooklyn, N. Y. Filed Aug. 1, 1919. Serial No. 314,713. 5 Claims. (Cl. 230—30.)



3. An air compressor including a casing having inlet and outlet, a rotor mounted for movement in the casing

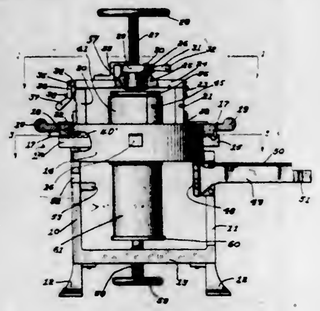
in an eccentric path, a plurality of members rotatably mounted in said rotor, and a plurality of abutments having passages therethrough slidably engaging said rotatable member and oscillatably mounted in the casing.

1,350,160. COMBINED MEAT CONTAINER AND EJECTOR. FERDINAND KRUSE, New York, N. Y. Filed July 24, 1919. Serial No. 312,998. 2 Claims. (Cl. 220—93.)



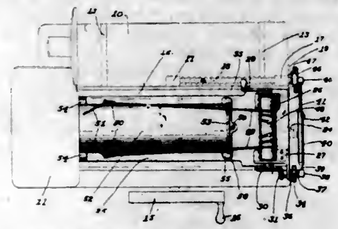
1. In a device of the class described, the combination with a container comprising a casing, a cover removably engaged therewith, a plate movable in said casing, prongs projecting from said plate for engaging material entered in said casing, flexible cords entering said casing near the cover thereof and extending downward closely adjacent the walls of the casing, said cords crossing each other on the lower side of said plate, eyes engaged with the outer portions of said cords, hooks engageable with said eyes, other cords to which said hooks are attached, a roller upon which the last named cords may be wound, means for rotating said roller, a base on which said roller is mounted, and means on said base for receiving said casing when disposed horizontally thereon.

1,350,161. MEAT-PRESSER. FERDINAND KRUSE, New York, N. Y. Filed July 24, 1919. Serial No. 312,999. 5 Claims. (Cl. 226—101.)



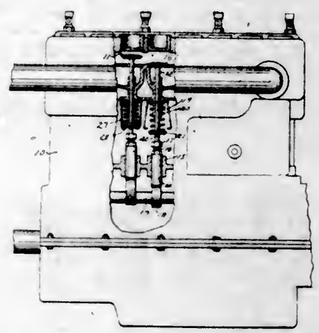
1. In a meat press, the combination with a pair of standards, a ring carried at the upper ends thereof, said raing having radial rectangular slots formed through its walls, bars slidably engaged in the recesses of said ring, teeth formed upon the upper side of said bars, a ring rotatably engaged upon the first named ring, manually operated means for actuating said second ring, spiral teeth formed upon the lower surface of said ring engageable with the teeth upon said bars whereby they may be moved, a pair of opposed formers secured to oppositely disposed bars, said formers being resilient and adapted to engage one within the other, and heads formed with the other pair of said bars adapted to make contact with said formers whereby they are held in a cylindrical form.

1,350,162. ATTACHMENT FOR SLICING-MACHINES. FERDINAND KRUSE, New York, N. Y. Filed Aug. 15, 1919. Serial No. 317,639. 5 Claims. (Cl. 17—24.)



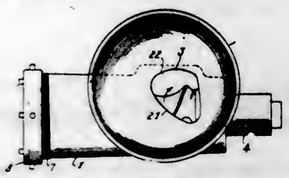
1. In a feeding device for slicing machine the combination with a machine having a base, a laterally reciprocable table, means for manual actuation and a pendant arm carried by said table of a base plate mounted on said table, a container horizontally supported on said base plate, a drum rotatable on said plate, means combined with said drum for extracting the contents of the container, means for manually rotating said drum and means actuated by said pendant lever for intermittently rotating said drum.

1,350,163. VALVE-EXTRACTOR. EDWARD T. LIESS, Huntington, N. Y. Filed Oct. 29, 1919. Serial No. 334,245. 1 Claim. (Cl. 29—86.3.)



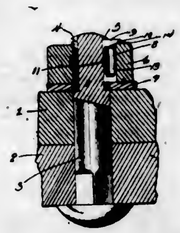
In a valve extractor, a rigid collar adapted to be permanently positioned around a valve stem between a valve spring and its seat, a plurality of arms hinged at one end around the periphery of said collar, and a transverse finger formed on the end of each arm opposite the hinge adapted to engage the spring washer and hold the spring in compression after the compressive force is removed.

1,350,164. MEAT-GRINDER. PAUL F. LOICHOT, Louisville, Ohio. Filed Dec. 24, 1919. Serial No. 347,169. 3 Claims. (Cl. 17—20.)



1. A meat grinder including a cylinder, a rotatable screw therein and a hopper located at one side of the longitudinal center of the cylinder and communicating with the interior of the cylinder, the inner wall of the hopper at the point of communication being located at nearly a right angle to the threads upon the screw.

1,350,165. NUT-LOCK. EMIL LUCK, Clara City, Minn. Filed June 4, 1919. Serial No. 301,635. 2 Claims. (Cl. 151—8.)

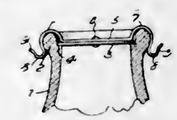


2. The combination with a bolt having a longitudinal groove, and a screw threaded shank, and a nut for the bolt provided with a groove adapted to be mounted upon the shank, the said grooves being adapted to be in registration at certain positions of the said nut on the bolt, of a pair of complementary locking plates, one of the plates having a relatively large opening with the other plate slidably mounted therein, a spring arranged in the opening and normally urging the smaller of the plates outwardly whereby one edge of the smaller plate will project from one longitudinal edge of the larger plate for projecting into the opening in the said nut to maintain the nut and bolt in fixed assembled position.

1,350,166. ALLOY. FOSTER MILLIKEN, Lawrence, N. Y., assignor to Foster Milliken, S. Fullerton Weaver, and James M. Repplier, trustees. Filed Aug. 29, 1918. Serial No. 251,940. 4 Claims. (Cl. 75—1.)

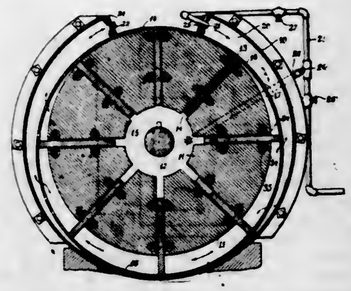
1. An alloy containing copper, nickel, iron, zinc and a purifying agent, the copper, nickel, iron and zinc being in a purified state and in proportion substantially as specified, the said purifying agent being a portion of 0.25 to 5 per cent. of the purifying agent used as the medium for purifying the said copper, nickel, iron and zinc, and remaining as an integral part of the alloy after purification of the said copper, nickel, iron and zinc, the said alloy being characterized by increased electrical resistance, increased elastic limit, increased tensile strength, increased density, a close and fine grain, and a high resistance to corrosion.

1,350,167. MILK-BOTTLE COVER. CHARLES W. MOSLEY, Hollywood, Calif. Filed Jan. 7, 1919. Serial No. 270,033. 1 Claim. (Cl. 215—14.)



A new article of manufacture comprising a disk for placement in the mouth of a milk bottle, and a resilient strip secured to the disk at the center of the latter, the strip being formed with curved portions for embracing the bead at the mouth of the bottle and being further formed with return bends adjacent the curved portions, the return bends terminating in lips for engagement by the fingers, whereby the curved portions may be spread to effect their disengagement from the bead for the useful purpose specified.

1,350,168. ROTARY ENGINE. CHASE MULINEX, Tolley, N. D. Filed Nov. 4, 1918. Serial No. 261,042. 4 Claims. (Cl. 121—87.)



1. A rotary engine including a cylindrical casing, a rotor concentric in the casing and spaced therefrom to provide an intervening concentric chamber adapted to receive a motive fluid, radially disposed pistons carried by the rotor and slidable therein, a cylindrical guide wall in said chamber and eccentric to the motor and rotor, said wall presenting imperforate arcuate areas approximately diametrically opposite each other, over which areas the pistons operate without radial movement in their positions of maximum and zero projection respectively, the remaining portions of said guide wall being perforated so that the pistons move over a perforated area of the wall in their forward and return strokes to and from the position of maximum projection, said chamber having an inlet and an exhaust for motive fluid respectively at opposite sides of that imperforate area over which the pistons travel in their position of zero projection.

1,350,169. SHIRT. JAMES PATRICK MULLANE, Cambridge, Mass. Filed Jan. 6, 1920. Serial No. 349,677. 1 Claim. (Cl. 2—41.)

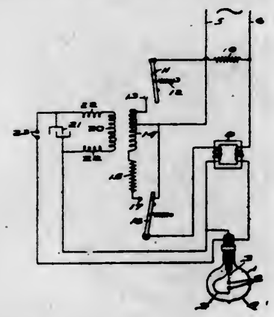


An open front shirt, comprising a body portion adapted to fit loosely around the body of the wearer, said body portion terminating in a relatively wide belt adapted to fit snugly around the hips of the wearer, said belt being open at the front, securing devices at the free edges of the shirt, securing devices at the ends of the belt in line with the securing devices in the shirt, and means carried by the intermediate portion of the belt for adjusting its length.

1,350,170. ARC-LAMP SYSTEM. THOMAS J. MURPHY, Rochester, N. Y., assignor of one-half to James P. B. Duffy, Rochester, N. Y. Filed Jan. 12, 1917. Serial No. 141,990. 4 Claims. (Cl. 176—12.)

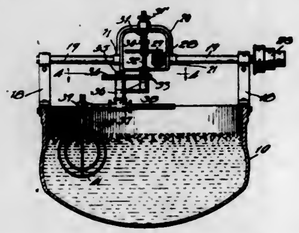
4. In a lamp lighting system, a source of current supply having a high electro-motive force and exceedingly small amperage, a second source of current having a lower electro-motive force and larger current, a lamp having

electrodes connected to the said sources, a third source of current having an electro-motive force lower than the



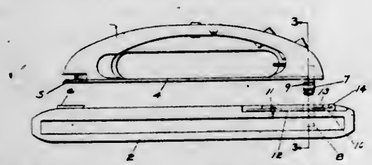
second named source, means for disconnecting the lamp from the first named two sources and connecting it with the last named source.

1,350,171. MIXING-MACHINE. ALOIS NIEDDERBERGER, Argyle, Wis. Filed Feb. 28, 1919. Serial No. 279,763. 2 Claims. (Cl. 259—99.)



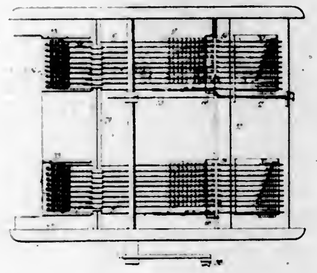
1. In a mixer, a vertical shaft, means for driving said shaft, a horizontal arm fixed at one end to said shaft, a second vertical shaft rotatably carried in the outer end of said arm, means whereby the last mentioned shaft is caused to rotate independently on its own axis when swung around the first mentioned shaft by the said arm, a beater carried by the last mentioned shaft, and means for adjusting said beater toward and away from said last mentioned shaft, said means including a horizontal sleeve fixed upon the lower end of said last mentioned shaft, and an arm mounted in said sleeve to be adjustable longitudinally therein and having the said beater attached to its outer end.

1,350,172. SHUTTLE. NILS W. NILSON, Walpole, Mass. Filed Mar. 29, 1918. Serial No. 225,558. 2 Claims. (Cl. 139—27.)



1. A loom shuttle of the character described, comprising a base, a bobbin holder, a plate secured to the base and having an undercut notch therein the walls of which notch diverge as they extend toward the opposite end of the base, a plate fixed to one end of the holder shaped to enter said notch and rest in engagement with said walls when the holder is in its operative position on the base, said diverging walls coöperating with the plate on said holder to guide the holder into a central position on the base while it is being attached thereto, a pin projecting from the bottom of the holder near one end thereof, said base having a hole therein to receive said pin, and a spring operated latch carried by said base and arranged to engage said pin to coöperate with said plates to positively secure the holder to said base.

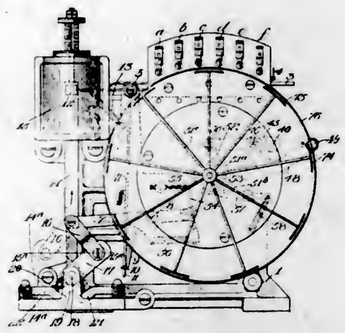
1,350,173. COMBINED TYPEWRITING AND COMPUTING MACHINE. CARL E. NORIN, Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1915. Serial No. 64,948. 16 Claims. (Cl. 235—60.)



13. In a combined typewriting and computing machine, the combination with a single set of pin-setting bars, of two sets of register wheels having numbers thereon running in opposite directions, and a separate set of pins for each register.

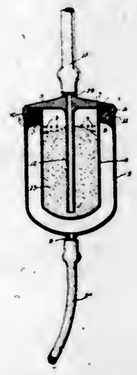
15. The combination with a complementary subtraction device, of two registers driven thereby simultaneously, one effective to add and the other effective to subtract.

1,350,174. AUTOMATIC RECORDING MECHANISM. HARRY Y. NORWOOD, and FREDERICK W. STALKER, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed May 20, 1916. Serial No. 98,775. 24 Claims. (Cl. 234—5.5.)



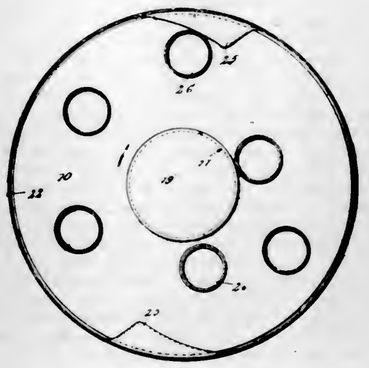
1. In a mechanism for recording conditions at a plurality of stations, the combination with a movable record surface, of a measuring instrument adapted to be controlled from said different stations, a recording arm operated by the measuring instrument in a plane parallel to said record surface and also movable toward the record surface, a recording element positioned adjacent said record surface, an actuating device operating to engage said recording arm and move the recording element against the record surface, and means acting automatically to effect a different number of operations of the measuring instrument and of the actuating device in a given interval for the different stations, to obtain distinguishable records for said stations.

1,350,175. SOAP-CONTAINER. EDWARD O'CONNOR, New Haven, Conn. Filed Aug. 26, 1919. Serial No. 319,954. 4 Claims. (Cl. 299—83.)



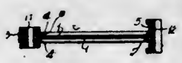
3. A device of the character stated, comprising a casing having an internal annular recess at its upper end, a container in the casing having an annular flange fitting in said recess, a cap secured on the upper end of the casing and holding the flange of the container in the recess of the casing, an inlet tube on the cap projecting into the container, and said container having perforations in the upper portion only of its wall communicating with the casing.

1,350,176. AMUSEMENT DEVICE. ANGELO PINTO, Coney Island, N. Y. Filed Oct. 15, 1919. Serial No. 330,734. 3 Claims. (Cl. 46—27.)



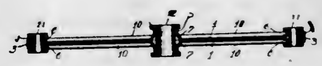
1. An amusement device comprising a rotatable platform, sloping from the center toward the periphery, a plurality of swiveled cars, supported thereon to travel in any direction, a stationary central bumper, and a plurality of peripheral stationary abutments, said cars being given an irregular path by alternate contact with said central bumper pand peripheral abutments.

1,350,177. METHOD OF MAKING CONNECTING-RODS. ALEXIS R. PRIBIL, Cleveland, Ohio. Filed Dec. 6, 1917. Serial No. 205,765. 2 Claims. (Cl. 29—148.)



1. In the art of producing connecting rods, wherein the rod is formed of a rod portion and a cap separable therefrom, and wherein the rod portion includes an embryo assembly of two members of similar configuration together with bushing formations for the piston pin and crank pin openings, the method of producing such assembly which consists in shaping a sheet metal blank symmetrically relative to a central transverse line to produce two configurations each having a piston pin boss at its outer end and a single crank pin boss symmetrically disposed relative to such line, bisecting the blank on such line to produce two independent sections, positioning complemental sections in assembly relation with similar boss configurations axially alined and projecting in opposite directions, positioning bushing formations relative to the alined boss configurations to produce an assembly in which each bushing projects beyond the ends of alined bosses and with each bushing integral from end to end, and completing the assembly by shaping the bushing to locate its opposite ends in overlying relation to the boss outer ends.

1,350,178. METHOD OF MAKING CONNECTING-RODS. ALEXIS R. PRIBIL, Saginaw, Mich. Original application filed Dec. 6, 1917, Serial No. 205,765. Divided and this application filed May 31, 1918. Serial No. 237,576. 3 Claims. (Cl. 29—148.)

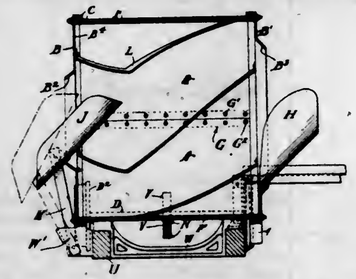


1. In the art of producing connecting rods, wherein the rod is formed of a rod portion and a cap separable therefrom, and wherein the rod portion includes an embryo assembly of two members of similar configuration together with bushing formations for the piston pin and crank pin openings, the method of producing such assembly which consists in shaping a sheet metal blank symmetrically relative to a central transverse line to produce two configurations each having a piston pin boss at its outer end and a single crank pin boss symmetrically disposed relative to such line, positioning a similar blank in assembly relation thereto with similar boss configurations axially alined and projecting in opposite directions, securing the blanks in such relation by bushing formations shaped to locate the opposite ends of a bushing in overlying relation to the outer ends of the alined boss configurations of both blanks, and bisecting the assembly on such transverse line.

1,350,179. CONCRETE-MIXING APPARATUS. ARTHUR W. RANSOME, Plainfield, N. J., assignor to Ransome Concrete Machinery Company, Dunellen, N. J., a Corporation of New Jersey. Filed May 27, 1914. Serial No. 841,185. 12 Claims. (Cl. 83—73.)

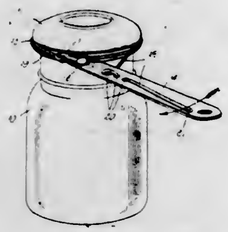
1. In a knock-down concrete mixer, in combination, a drum having sides longitudinally partible into nesting segments, nesting ends for said drum, the ends adapted to form the bottom and the sides the roof of an inclosed

space, removable nesting mixing blades, adapted to be stored within the inclosed space indicated, and charging



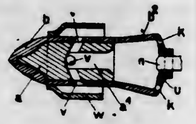
and discharge chutes, shaped to conform to the space so inclosed.

1,350,180. OPENER FOR GLASS-TOPPED JARS. DEWITT C. RELYEA, Coscob, Conn. Filed Jan. 28, 1920. Serial No. 354,647. 2 Claims. (Cl. 81—3.1.)



1. In a glass-top lifter for fruit jars, the combination with a lever of flat rigid material and a flexible plaited wire pivotally attached to one end thereof and adapted to pass around the container beneath the top, said lever having a rounded end terminating in an obtuse angular shoulder, of a keeper with which said wire is adapted to coöperate adjustably for determining the effective length of the wire in accordance with the size of any fruit jar, the free end of the wire beyond the keeper lying along the longer end of the lever in position to be grasped by the hand of the operator.

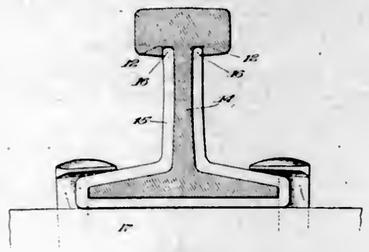
1,350,181. SOLDERING-IRON. HERMANN REMANÉ, Berlin, Germany. Filed Apr. 24, 1918. Serial No. 230,584. 13 Claims. (Cl. 158—26.)



1. A soldering iron comprising an outer recessed mantle composed of a metal not readily oxidizable in a flame and constituting the soldering surface and an inner core located within the recess of said mantle and operatively combined therewith, said inner core consisting of a metal which is a good conductor of heat.

1,350,182. RAIL-JOINT. GEORGE B. RYAN and WILLIAM M. RYAN, Leakey, Tex. Filed Nov. 17, 1919. Serial No. 338,549. 2 Claims. (Cl. 238—205.)

1. A rail joint comprising a connector sleeve formed from stock of uniform thickness for closely engaging the bases and webs of the abutting ends of two rails and with the upper edges thereof fitting within grooves in the



under portion of the heads of the rails, adapted to slide over the end of one of the rails and thereafter be moved to engage the ends of both rails.

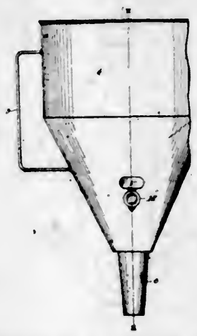
1,350,183. THERMOSTATIC SWITCH. JOHN RIOS, New York, N. Y. Filed Oct. 22, 1918. Serial No. 259,169. 1 Claim. (Cl. 200—140.)



A device for the purpose indicated comprising a tubular container, a column of mercury carried in the bottom of the container, a composite rod member slidably mounted in the container and formed both with a head and a foot approximating the internal cross sectional area of the container but having its body portion considerably reduced in cross sectional area, the foot bearing on the column of mercury, the head and foot and reduced portion of the rod being of insulating material but the reduced portion containing a section of conducting material, contact springs set in opposite sides of the container and bearing upon the reduced portion of the rod, and a spring within the container and compressed between the top of the latter and the head of the rod.

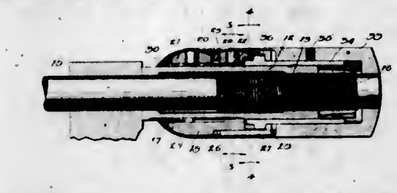
1,350,184. GASOLENE-FUNNEL. GABRIL SAMBOLL, St. Cloud, Minn. Filed Mar. 4, 1920. Serial No. 363,163. 5 Claims. (Cl. 210—45.)

1. A gasolene funnel comprising a body portion, a receptacle centrally disposed within the body portion, an elbow pipe extending from the bottom of said receptacle through the side of said body portion, an outlet spout for said receptacle extending into the funnel body and means



within said receptacle for directing the flow of gasolene entering the same.

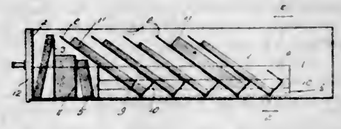
1,350,185. MICROMETER-GAGE. THOMAS SHAW, Woonsocket, R. I. Filed Aug. 13, 1919. Serial No. 317,217. 3 Claims. (Cl. 33—166.)



1. A micrometer gage comprising a frame including spaced arms, an abutment member carried by one of said arms, a tubular extension on the other arm having the outer end of its bore threaded, a stem slidable and rotatable through said extension and having a portion threaded for engagement within the threaded portion of said member, a sleeve splined upon said tubular extension and having a reduced portion and also having a portion cut away to provide a flat bearing surface, a guide sleeve engaged upon said reduced portion and having an inwardly extending annular flange, studs mounted on said flat bearing surface, a pair of indicator wheels journaled on such studs and each bearing indicia ranging from zero to 9, the periphery of one of said wheels being provided with teeth and the periphery of the other wheel being provided with a single tooth engaging said first named teeth successively, a gear formed on the underside of said second named wheel, a shell surrounding and secured to said sleeve and forming a housing for said wheels, said shell being provided with sight openings through which said indicia are visible, the end of said shell adjacent the frame being curved into proximity with said extension, and said extension being provided with graduations exposable upon longitudinal movement of said shell outwardly, a handle member secured upon the outer end of said stem and of the same diameter as said shell and having its open end disposed against the other end of said shell, a sleeve secured within said handle member and having an outwardly extending flange engaging said inwardly extending flange, and a gear formed on said last named sleeve and engaging said first named gear.

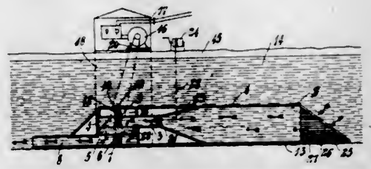
1,350,186. DESK-DRAWER FILE. FREDERICK L. G. STRAUBEL, Green Bay, Wis. Filed Nov. 29, 1918. Serial No. 264,499. 4 Claims. (Cl. 45—7.)

1. In a filing drawer, pivoted partitions, each composed of spaced fronts and backs and a bottom connecting the fronts and backs, the pivots being located adjacent the fronts and above the drawer bottom and the bottoms being at an obtuse angle to the fronts so that the points of juncture between the backs and bottom will project be-



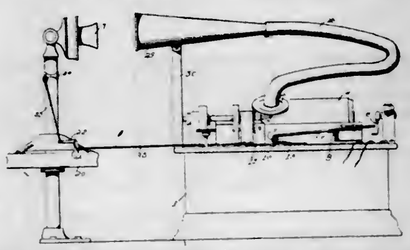
low the pivots and afford stops to engage the drawer bottom to limit rearward swinging of the partitions.

1,350,187. SUBMERSIBLE WATER-POWER DEVICE. JOHN C. STREIBICH and GEORGE F. GRUVER, Little Rock, Claims. (Cl. 253—31.)



1. In a submersible water power device, a casing having an inlet end and an outlet end, and an intermediate inclosed cylindrical wheel chamber with a passage from the inlet end into the upper part of said chamber, and a passage to the outlet end from the lower part of said chamber of unreduced cross-sectional area from the lower part of said chamber to the exterior of its down-stream end, a water wheel, and mountings for said wheel whereby said wheel rotates in a plane across said cylindrical chamber between the inlet and outlet passages, said water wheel comprising a series of vanes inclined to its axis, each series being confined between cylindrical vertical shells and each vane slanting downwardly and rearwardly from top to bottom with reference to the entrance of the water which passes therethrough, and power transmitting means operatively connected to said water wheel and extending laterally from said casing for operative connection to suitable power distributing means, a frame slidable into and out of said wheel chamber and supporting said water wheel and said operative connection, and a water-tight box surrounding said operative connection on said frame, said box being removable from said casing along with said frame and said water wheel.

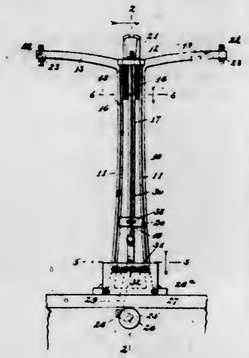
1,350,188. AUTOMATIC BURGLAR-ALARM. FRANKLIN ADELBERT TERRY, San Francisco, Calif. Filed July 9, 1917. Serial No. 179,378. 5 Claims. (Cl. 179—5.)



2. A burglar alarm comprising a telephone set, a phonograph disposed near the set, a brake for normally holding the phonograph mechanism stationary against spring tension, means connecting the switch hook of the telephone set with the brake mechanism for holding the switch hook in normal position, a motor, an electric circuit for operating the motor containing circuit closing devices,

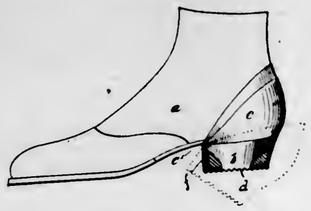
means for holding the phonograph needle normally out of engagement with the record, means actuated by the motor for releasing the brake mechanism and the switch hook, and means for subsequently shifting the needle holding means to permit the needle to be brought into operative engagement with the record.

1,350,189. POST FOR SCALES. GEORGE GOTTFRIED VOLAND and EMIL L. VOLAND, New Rochelle, N. Y. Filed July 22, 1919. Serial No. 312,625. 4 Claims. (Cl. 265—54.)



1. In a scale, a post having a vertical slot, two laterally extending arms, and guideways, a rod slidable in the guideways and having means for supporting a scale beam for coöperating with the arms, a plumb depending from the top of the post, there being a mark adjacent the base of the post with which the plumb may be compared, and a pin on the rod for movement in the vertical slot.

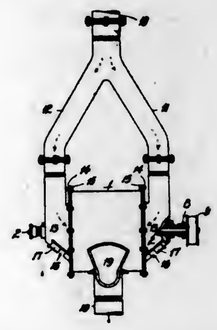
1,350,190. NON-SLIP HEEL FOR FOOTWEAR. GEORGE W. WATSON, Boston, Mass. Filed June 20, 1919. Serial No. 305,537. 4 Claims. (Cl. 36—72.)



1. In a device of the character described in combination a heel, a heel inclosing pocket of resilient material and adapted to snugly fit the rear part of said heel, and inwardly concaved, cup shaped, resilient projecting means at the front wall of said pocket, and adapted to rest against the breast of said heel.

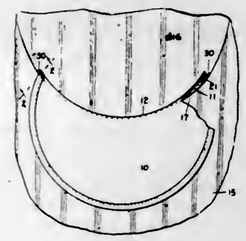
1,350,191. FAN FOR USE IN SPARK-ARRESTING AND SMOKE-CONSUMING DEVICES. WILLIAM ANDREW WATTERSON, Macquarie River, via Euchareena, New South Wales, Australia. Filed Aug. 5, 1919. Serial No. 315,501. 3 Claims. (Cl. 230—11.)

1. A fan for spark arresting and smoke consuming devices of the kind specified, consisting of a cylindrical casing, a mechanically operated spindle extending therethrough and upon which are fixed rotary fan blades, a discharge pipe from the casing, a junction pipe connected at one end with the suction pipe and formed at the other end with branches connected with the ends of the casing,



the mouths of said branches being flared and provided with controllable air inlets.

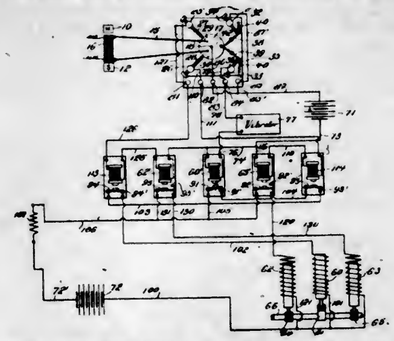
1,350,192. DRESS-SHIELD. HELEN WEEKS, New York, N. Y., assignor of one-half to Samuel E. Durant, New York, N. Y. Filed July 18, 1919. Serial No. 311,801. 1 Claim. (Cl. 2—34.)



In combination, a garment having a body and sleeves, spaced loops at the junction of the body and sleeves and projecting from the said junction, and a dress shield having a body flap and a sleeve flap, the flaps being united at their upper edges, a snap fastener on each corner of the dress shield and having a socket member and a stud member, one of the said members being secured to the outer face of the body flap and the other member being attached to the under side of the arm flap, the stud of the said stud member passing through the corresponding loop and engaging the socket member to fasten the dress shield in position on the garment.

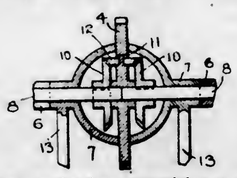
1,350,193. ATTACHMENT FOR CABLE-RECORDERS. FREDERICK S. WHITNEY, New York, N. Y. Filed Mar. 25, 1918. Serial No. 224,686. 3 Claims. (Cl. 178—92.)

1. In a device of the class described, a plurality of magnets, a coil mounted for rotation on a vertical axis between the poles of the magnet, a disk mounted for rotation on a vertical axis, the mounting means including a staff and mineral elements within which the staff is carried, contact members mounted on the disk, means connecting the disk with the coil and causing the disk to rotate in unison with the movement of the coil, a vibrating device and a recording device, contact members mounted in the path of movement of the contact devices first named upon the rotation of the disk, an additional contact element on the disk, and pivoted arms contacting therewith on opposite sides thereof when the disk is stationary, an additional circuit and means for completing the latter through the vibrator and an element of the recording device and



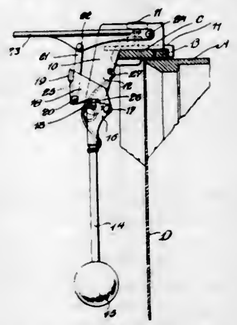
through said arms, when the disk is stationary, the rotation of the disk moving either of the arms pivotally for breaking the circuit last named.

1,350,194. DIFFERENTIAL MECHANISM FOR FRONT AND REAR DRIVEN VEHICLES. ISAM ISAAC WIGGINS, McIntosh, Ga. Filed Apr. 12, 1917. Serial No. 161,504. 1 Claim. (Cl. 74—99.)



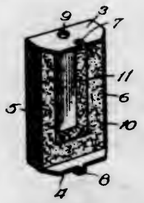
A differential mechanism comprising a pair of axially alined and abutting driving shafts, a bevel gear keyed to each of the abutting ends of the driving shafts, a spur gear intermediate the two bevel gears and mounted loosely on the axial abutting ends of the two parts of the driving shafts, said spur gear having a radial pin, a bevel pinion journaled on said pin at right angles to the axis of said spur gear and meshing with the bevel gears, a casing surrounding the bevel gears and the central portion of the spur gear and having its outer edges spaced from the teeth of said spur gear, said casing comprising two semi-spherical sections, the outer ends of said semi-spherical sections forming supporting means for the axially alined driving shafts, and means for supporting the sections of the casing and its bearings.

1,350,195. BASS-DRUM-OPERATING MECHANISM JOHN DUNCAN WILLIAMS, Charlotte, N. C. Filed Oct. 7, 1919. Serial No. 329,015. 3 Claims. (Cl. 84—422.)



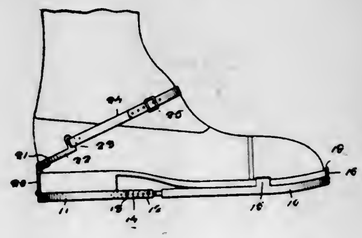
1. A device of the character described comprising a bracket detachably engageable upon the hoops at one end of a bass drum, a striking member pivotally connected with said bracket and carrying a beater head adapted to be moved into engagement with the head of the drum, a lateral extension on said striking member, a lever pivotally connected with said lateral extension at one side of the pivot point of the striking member, a link pivotally connected with said lever at the opposite side of the pivot point of said striking member, and an operating lever pivoted upon said bracket and pivotally connected with said link.

1,350,196. OIL-CUP. LOUIS HENRY WILLIAMS, St. Joseph, Mo. Filed Mar. 1, 1920. Serial No. 362,432. 2 Claims. (Cl. 184—1.)



2. In combination with a spring formed of a plurality of superposed leaves secured together, an oil cup comprising a pair of separable tray-shaped oil receptacles, each of said receptacles having at each end an integral lug formed into a hook, and an oil hole in one end, a continuous strip of packing disposed within each receptacle along the side walls thereof, said packing constituting the inner side walls of an oil chamber communicating with said oil hole, and a pair of tension springs adapted to engage the hook at each end of said oil receptacle, whereby the latter are held against the side edges of the superposed leaves in said spring.

1,350,197. ATTACHMENT FOR SHOES. WALTER WOOD, Bay City, Oreg. Filed Dec. 22, 1919. Serial No. 346,475. 3 Claims. (Cl. 36—63.)

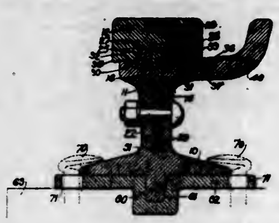


1. A shoe attachment of the class described consisting of a substantially straight frame corresponding in plan with a shoe sole and consisting of toe and heel members of channel iron adjustably secured together at their meeting ends, the toe member being provided with a toe clip and the heel member with a heel clamp provided with forwardly and upwardly extending arms, and an instep strap connecting said arms.

1,350,198. RAIL. NICHOLAS I. WOOLSEY, New York, N. Y. Filed July 8, 1919. Serial No. 309,291. 4 Claims. (Cl. 238—146.)

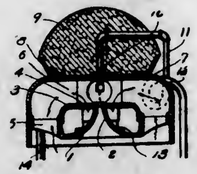
3. A rail made in sections of which one comprises a base and a web having a longitudinally extending recess reaching approximately from the top of the web to the lower edge thereof, the other section having a head and a depending tongue fitting into the said recess, the said web

being provided at the top adjacent the outer sides with inwardly downwardly inclined seats, the said head being



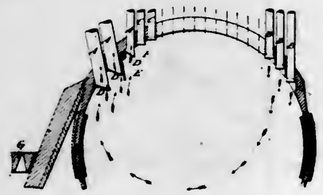
provided at the underside adjacent its outer edges with inwardly downwardly inclined faces fitting said inclined seats.

1,350,199. HYDROCARBON-FUEL BURNER. THOMAS E. WORTHINGTON, Kansas City, Mo. Filed Nov. 5, 1919. Serial No. 335,914. 3 Claims. (Cl. 158—91.)



1. In an oil burner comprising a concave bottom having a central, upstanding, conical projection, a baffle ring about the projection, the bottom being provided with air openings, a spider-like top fitting over the bottom and having air ports alining with the air openings, and an oil supply pipe extending through the top of the burner.

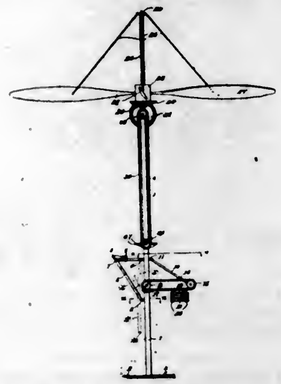
1,350,200. CIRCULATION IN WATER-TUBE BOILERS. HAROLD E. YARROW, Glasgow, Scotland. Filed Oct. 30, 1917. Serial No. 199,311. 2 claims. (Cl. 122—365.)



1. Means for obtaining an improved circulation of water in a water tube boiler, comprising a water drum of approximately circular cross section, a source of heat, and a nest of tubes communicating with said water drum, the tubes relatively near the source of heat conveying upward currents of water and the tubes farther from the source of heat conveying downward currents of water, the lower ends of tubes nearest the source of heat terminating in oblique sections so that the part of each of said last named tubes which is turned away from the source of heat is lower than the part toward said source, substantially as described.

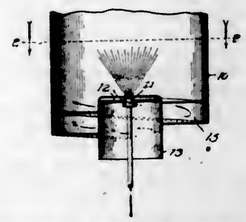
1,350,201. FLYING-MACHINE. PAUL YESO, Dodgeville, Mich. Filed June 1, 1920. Serial No. 385,798. 3 Claims. (Cl. 244—19.)

3. A flying machine of the type described comprising a vertical standard, a seat frame supported thereon, a counterbalancing weight shiftably mounted on said standard in directions at right angles to the longitudinal axis thereof, a elicoptical propeller journaled upon the upper end of said standard, manually operating means for said



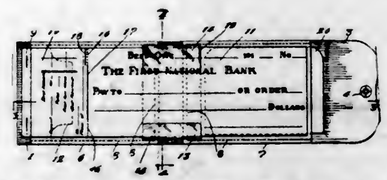
propeller, said operating mechanism including a hub for the propeller, a beveled gear integral with said hub, a beveled gear journaled on said standard in mesh with the hub gear and chain and sprocket mechanism for operating said gears.

1,350,202. LIQUID AND GAS CONTACT APPARATUS. HANS J. ZIMMERMANN, Chicago, Ill., assignor, by mesne assignments, to The G. A. Buhl Company, Chicago, Ill., a Corporation of Illinois. Filed July 5, 1918. Serial No. 243,326. 3 Claims. (Cl. 261—79.)



3. In combination with a gas conduit, a spray nozzle mounted to deliver in a line substantially axially of the conduit, a shield of substantial diameter mounted concentrically with and behind the spray nozzle, and an annular helicoidal vane lying between the conduit wall and the said shield for directing the gas current in a helicoidal line at the zone of the spray.

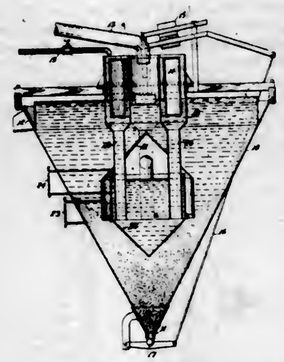
1,350,203. CHECK-BOOK ATTACHMENT. WILLIAM EDGAR ABBOTT, Bend, Oreg., assignor to Abbott Incorporated, Bend, Oreg., a Corporation of Oregon. Filed July 14, 1919. Serial No. 310,529. Renewed July 14, 1920. Serial No. 396,336. 3 Claims. (Cl. 24—66.)



1. As a new article of manufacture, a device for holding the checks of a folding check book flat while being

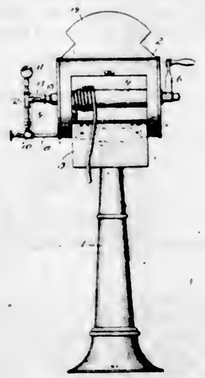
written upon, comprising a flat body having the whole of its ends bent upwardly and inwardly to form overhanging members whereby when the body of the device is arranged below the lowermost check at the fold, it will extend on each side of said fold and the overhanging members will extend a short distance over the uppermost check and in engagement therewith a distance on each side of the fold.

1,350,204. SLIME-PULP THICKENER. CHARLES ALLEN, El Paso, Tex. Original application filed June 9, 1917, Serial No. 173,785. Divided and this application filed Oct. 10, 1918. Serial No. 257,624. 5 Claims. (Cl. 210—54.)



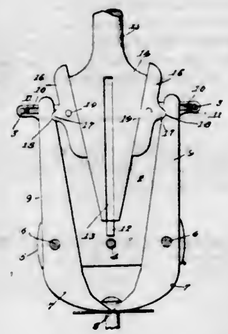
1. A slime pulp thickener comprising a tank having a discharge orifice in the bottom thereof, a valve member normally closing said orifice, a float chamber, a float supported upon the liquid therein, operating mechanism between the valve and the float, means whereby variation in the density of the pulp within the tank will affect the liquid within the float chamber to raise the float and an air-cell between said chamber and said means, whereby communication between the contents of tank and the contents of float chamber will be prevented.

1,350,205. HOSE-REEL. JOHN E. ANDERSON, Jamestown, N. D. Filed Apr. 20, 1918. Serial No. 229,802. 1 Claim. (Cl. 299—78.)



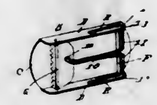
A device of the character described comprising a hollow standard, a hollow cylindrical casing mounted upon the upper end of the standard and having a door in one side, a reel journaled longitudinally through said casing, a handle on one end of said reel exteriorly of said casing, a hose wrapped upon said reel, the opposite end of the reel from the handle being formed with a bore with which one end of the hose communicates, a supply pipe extending through said standard and disposed laterally through the lower portion of said casing, a connection outside of said casing at the end opposite the handle between the upper end of said supply pipe and the bore of said reel, and a gage associated with said connection.

1,350,206. RIVET-CUTTER. IRA W. BARNES, East Liverpool, Ohio. Filed Oct. 10, 1919. Serial No. 329,655. 6 Claims. (Cl. 81—197.)



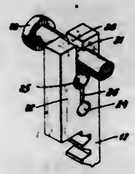
6. In a rivet cutter, two plates mounted in parallel spaced relation, opposed cutters rockably mounted between said plates and each having an upwardly extending relatively long shank, each of the plates being provided with a central longitudinally extending and inwardly projecting rib, blocks rockably engaging said shanks adjacent the upper ends thereof, said blocks being provided with outwardly projecting studs and the plates being provided with arcuate slots concentric with the axes of movement of the cutting members and receiving said studs for supporting and guiding the blocks during operation thereof, and a wedge member slidable between said blocks provided in its opposite sides with longitudinally extending grooves receiving said ribs, the lateral faces of the wedge member engaging the inner faces of said blocks for forcing the same apart when the wedge member is forced inwardly between said plates.

1,350,207. BELT-BUCKLE. HARRY E. BILLINGS, Lead, S. D., assignor of one-half to Charles J. Searle, Lead, S. D. Filed Nov. 29, 1919. Serial No. 341,415. 1 Claim. (Cl. 24—170.)



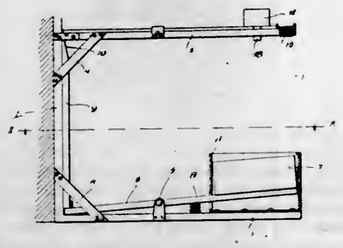
In combination with a belt buckle formed with a plate with upper and lower flanges, a hook member formed from a single length of resilient wire bent intermediate its ends to provide a horizontally extending shank terminating in an upwardly curved bill, the end portions of said hook member being arranged in vertical alinement and extending through holes in the upper and lower flanges of the buckle, and the extremities of said end portions being bent laterally, said shank being insertible through a loop provided at the top edge of the fly of trousers.

1,350,208. ADJUSTABLE LINE-SUPPORTING POST. GURLEY BROSHEARS, Newburg, Ind. Filed Nov. 14, 1919. Serial No. 338,108. 2 Claims. (Cl. 68—12.)



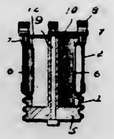
2. The combination with a bar having in its upper portion a lower aperture, an upper comparatively large aperture, a kerf between and connecting the said apertures and another kerf extending from the upper aperture and open at its outer end; of a line holder having a reduced intermediate portion adapted to pass through the upper kerf in the bar and also having a portion adapted to snugly occupy the upper comparatively large aperture in the bar.

1,350,209. HEN-MARKER. HARVEY A. CALMUS, Pittsburgh, Pa. Filed Mar. 16, 1920. Serial No. 366,182. 2 Claims. (Cl. 119—45.)



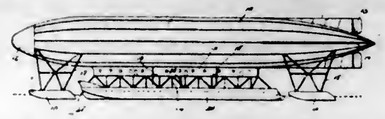
2. A hen marking apparatus comprising a frame, a lever, a nest on the outer arm of the lever and movable downwardly by the weight of a hen, means to yieldingly support the nest, a receptacle for marking substance connected with the frame and having a discharge arranged above the nest, an upright thrust rod movable upwardly by the inner arm of the lever and having tapered upper portion, and a spring-pressed valve normally closing the discharge of the receptacle and operable by upward movement of the thrust rod to momentarily open the discharge of the receptacle.

1,350,210. FUSE-PLUG. MARTIN JOSEPH CANNING, Chicago, Ill. Filed June 8, 1918. Serial No. 238,908. 1 Claim. (Cl. 200—125.)



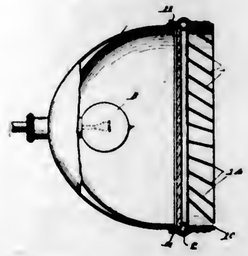
A fuse box comprising a metal screw threaded band and a fiber case connected with said band, an insulated bottom in said band, partitions connected with said bottom and dividing the box into a number of compartments, a bolt passing through the bottom and the junction of said partitions, a rotatable switch plate carried by said bolt, a fuse element in each compartment having its lower end connected with the band, terminals carried by the upper edge of the fiber case with which the upper end of the fuse element engages and detachable means for connecting the switch plate with said terminals.

1,350,211. SEA-DIRIGIBLE. DAVID CORSON, Jr., Mount Union, Pa. Filed Apr. 26, 1920. Serial No. 376,782. 3 Claims. (Cl. 244—2.10)



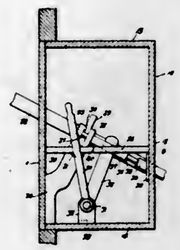
3. In combination, a dirigible comprising in combination, a gas bag provided with driving means, rigid frames extending downwardly at the end portions of the bag and carrying hollow shells serving as pontoons, a tank supported beneath the bag and adapted to serve as a boat structure, means permitting inlet of water into the tank whereby to serve as ballast, and means for expelling water from said tank.

1,350,212. SHADE FOR AUTO HEAD-LAMPS. FRANK E. DAVIS, Bremerton, Wash. Filed Oct. 31, 1919. Serial No. 334,717. 2 Claims. (Cl. 240—48.4.)



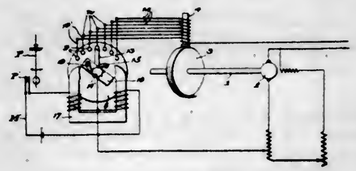
1. An attachment for automobile head lamps comprising a circular band detachably engaged upon the front of a head lamp, a plurality of transverse forwardly and downwardly inclined parallel blades within the upper portion of said band, and a plurality of other downwardly and forwardly inclined blades within the lower portion of said band, said last named blades being radial with respect to the center of the source of light of the lamp.

1,350,213. LOCK. LEWIS T. DIEBOLT, Logansport, Ind. Filed July 22, 1919. Serial No. 312,531. 3 Claims. (Cl. 74—39.)



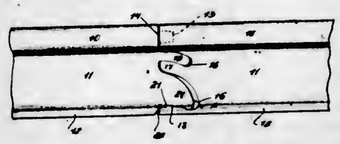
3. Means for locking a steering post of a vehicle against rotation, comprising a support to which the steering post extends, a bolt mounted for sliding movement, means for supporting the bolt, a member carried by said post and designed to receive the bolt, said bolt being normally separated from said member, a shaft journaled for rotation, a member projecting from the shaft and associated with the bolt for sliding the latter, toward and away from said member, a lever for rotating the shaft, means for holding the lever in a given position.

1,350,214. DEVICE FOR REGULATING AND MAINTAINING CONSTANT THE SPEED OF MOTORS. RICHARD EISENMANN, Berlin, Germany. Filed Dec. 29, 1914. Serial No. 879,598. 3 Claims. (Cl. 172—293.)



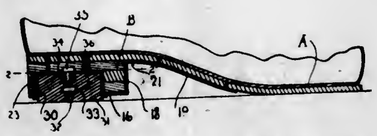
1. The combination, with an electric motor and its shaft; of a controller for accurately maintaining constant the number of revolutions of the motor shaft, comprising a contact arm, means for continuously rotating said arm at a constant, predetermined speed, a disk constantly driven by the motor at a speed which is directly proportional to that of the motor, said disk being provided with a plurality of contacts with which the contact arm co-acts, and a brake magnet having sectional windings operatively associated with the motor shaft to act thereon, said contact arm in moving over said contacts supplying currents of varying intensities to the sections of the magnet so as to exert accordant braking actions on the motor shaft.

1,350,215. RAIL-JOINT. PAUL J. FENSKE, Mart, Tex. Filed Apr. 5, 1920. Serial No. 371,316. 2 Claims. (Cl. 238—241.)



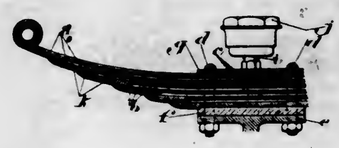
2. In a device of the class described, a rail joint comprising coacting rails abutting end to end, each including a head portion, a web portion and a flange portion, the head portion of one rail having a socket and the head portion of the other rail having a spur engaging in said socket, the web portion of one rail having a plurality of downwardly curving sockets extending entirely therethrough and the web portion of the other rail having tongues curved to correspond to and engageable in the curved sockets, and the flange of one rail cut away to form a tongue and the flange of the other rail having a downwardly opening recess to receive the terminal of the flange tongue.

1,350,216. SHOE-HEEL. GEORGE F. FISCHER, Rochester, N. Y. Filed July 21, 1919. Serial No. 312,150. 1 Claim. (Cl. 36—36.)



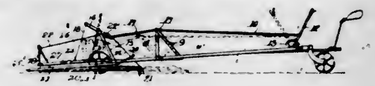
In combination with a heel provided with a cylindrical recess, a cylindrical socket member secured within said recess, a bolt extending through the socket member and having an angular head embedded within the heel at the bottom of the recess, a rubber plug engaged within the socket and having a bore for the passage of said bolt, and a nut embedded within the plug and having threaded engagement with the bolt whereby upon rotation of said plug the same may be caused to extend to a greater or less extent beyond the lower surface of the heel.

1,350,217. LUBRICATING DEVICE FOR LEAF-SPRINGS. JOSEPH MARIE ETIENNE FRANC, St. Vallier, France. Filed Feb. 24, 1919. Serial No. 278,969. 2 Claims. (Cl. 267—50.)



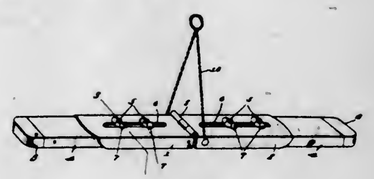
1. In a device of the character described, a leaf-spring composed of a plurality of leaves of successively decreasing length having longitudinal grooves along their surfaces in contact, said grooves communicating with one another by orifices formed in the leaves and being of successively decreasing width from leaf to leaf, and means for supplying lubricant to said grooves.

1,350,218. PUSH-RAKE. ALFRED JOHN GIBBS, Hay Springs, Nebr. Filed Mar. 12, 1917. Serial No. 154,329. 2 Claims. (Cl. 56—395.)



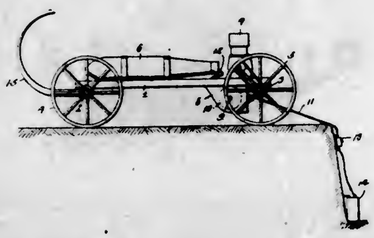
1. A push rake including a wheeled frame a rake prop r disposed forwardly of the frame, a sliding vertical abutment on the rake, a rearwardly disposed arm engaged with the intermediate portion of the abutment and carrying a spur on its rear end adapted for engagement with the surface over which the push rake moves whereby to cause said abutment to be moved when in inoperative position on the rake, hingedly connected bracing arms pivoted at their opposite ends to the abutment and portions of the frame, an arm pivotally supported on the frame at a point above the rake having connection with the hingedly connected arms, an operating lever mounted on the rear end of the wheeled frame, and means for connecting said operating lever to the free end of the pivoted arm for imparting movement thereto upon the rocking of the operating lever whereby to break the hinged joint between the bracing arms.

1,350,219. SKIRT-HANGER. ROBERT GIBBS, Portland, Oreg. Filed Jan. 16, 1920. Serial No. 351,833. 1 Claim. (Cl. 211—13.)



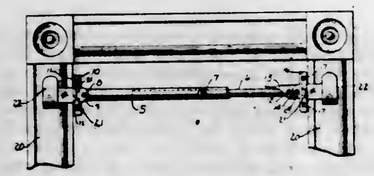
A hanger of the class described comprising a pair of metal channel members hinged together, each member having a longitudinal slot therein, blocks having portions sliding in the channels in said members, thumb bolts carried by the blocks and passing through the slots, a suspension chain having each end connected with each channel member at one side edge thereof adjacent the hinged end and resilient tips secured to the outer ends of the block.

1,350,220. LAND-TORPEDO. EDWARD GRAHAM, Saginaw, Mich. Filed Nov. 17, 1917. Serial No. 202,589. 1 Claim. (Cl. 102—2.)



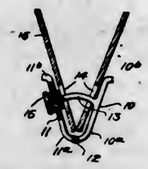
In combination with a land torpedo, comprising a wheeled truck having propelling means and having a torpedo supported by and secured longitudinally thereon; of a fender comprising a curved member having its lower end secured centrally to the front of the truck and disposed upwardly of the torpedo and terminating in a line with the center and above the torpedo, and angle brace means between the side of the fender member, and the front of the truck.

1,350,221. COMBINED BRACKET AND CLAMP. ASA ALLAN H. GRIFFIN, Butler, Pa. Filed Dec. 19, 1919. Serial No. 345,967. 2 Claims. (Cl. 156—23.)



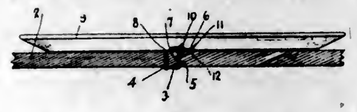
2. In a device for the purpose set forth, two telescopic elements providing a support, binding means therebetween for retaining the elements adjusted, a channeled head having its sides provided with ears which are pivotally secured to the outer end of one of the elements, a lever having side members which are pivotally secured to the outer end of the other element, a channeled head having central ears pivotally secured to the outer end of the lever, and a compressible element on the outer face of each of the heads.

1,350,222. CUFF-LINK. JAMES L. HALL, Beaumont, Tex., assignor of one per cent. to Van O. Holland, Clay, Tex., one per cent. to Ocie Hunt, Somerville, Tex., and two per cent. to Edward T. Hall, Atlanta, Ga. Filed Sept. 23, 1919. Serial No. 325,741. 1 Claim. (Cl. 24—102.)



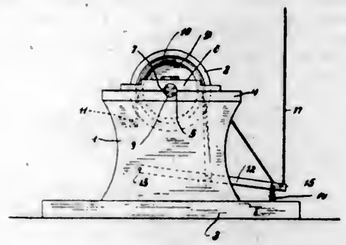
A cuff link having head elements provided respectively with an arcuate stem and a revoluble nut for engaging a threaded extremity of the stem, said elements having arms disposed radially of the stem and permanently jointed in concentric relation therewith.

1,350,223. PLATE-FASTENING DEVICE. EDDIE H. HAMILTON, Washington, D. C. Filed Nov. 17, 1919. Serial No. 338,755. 2 Claims. (Cl. 65—54.)



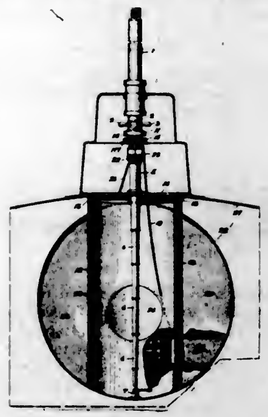
2. In a means for holding a plate that has its lower edge provided with opposed outstanding slotted eyes on a support, comprising a clamp formed from spring material to include an angle base which is attached to and which exerts a tension against the support, an arm arising from one end of the base, an angle beak on the outer end of the arm, and said beaks designed to be received in the slotted eyes of the plates.

1,350,224. SUNKEN-BOAT DETECTOR. EARL G. HAUN, Marion, Ind. Filed Nov. 24, 1919. Serial No. 340,325. 1 Claim. (Cl. 9—9.)



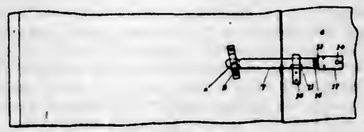
Means for indicating the position of a sunken ship comprising a winch located on the ship, a float, a cable connecting the float with the winch and means for preventing further unwinding of the cable from the winch when the boat reaches the bottom, said means consisting of a brake, spring means for holding the brake in braking position and means for releasing the brake by the pull of the cable as the float passes to the surface.

1,350,225. SIGHTING INSTRUMENT. MARLEY F. HAY, The Hague, Netherlands. Filed Dec. 12, 1917. Serial No. 206,772. 19 Claims. (Cl. 114—16.)



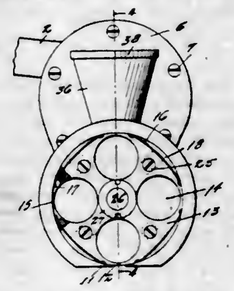
1. The combination, with a periscopic sighting instrument; of a rising and falling carrier whereon said instrument is rotatably mounted to be raised and lowered; said carrier constituting a bodily support for the observer using the instrument and a housing for the carrier in which the latter is movable.

1,350,226. DOOR-LOCKING MEANS. CHARLES W. HOVIS, Clintonville, Pa. Filed Aug. 12, 1919. Serial No. 317,045. 1 Claim. (Cl. 70—14.)



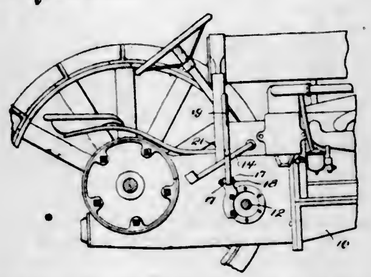
A lock for doors, comprising a latch bar positioned to be swung across the edge of the door, and having a keeper recess in its free ends, a pivotal support for the latch bar, said support being key-operated, and a latch bolt opposite the free end of the latch bar when the latter is in locking position, said bolt being adapted to enter the keeper recess of the latch bar for locking the same.

1,350,227. ROTARY RAZOR. SIDNEY P. JONES, Waco, Tex. Filed Sept. 17, 1918. Serial No. 254,418. 17 Claims. (Cl. 30—12.)



1. In a rotary razor, an elongated handle member, a shaving guard mounted on the handle member, a rotating cylindrical member coöperating with the guard, and cutting blades having their edges exposed on the periphery of the cylindrical member, lather accumulating pockets in the cylindrical member, said cylindrical member having openings between the cutting edges of the blades communicating with the latter accumulating pockets.

1,350,228. PEDAL-HOLDER. ARCHIE J. LEAR, Rago, Kans. Filed Mar. 9, 1920. Serial No. 364,577. 1 Claim. (Cl. 74—81.)



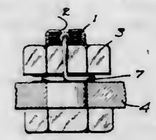
In a tractor, the combination with a motor driven shaft, clutch means between the motor and shaft, and a pedal for operating said clutch to release the shaft from the motor, of a plate secured to the clutch casing and having a bifurcated upper end, a lever having one end thereof received in the bifurcated end of the plate, a removable pivot connecting the lever to the plate, means on the lever engaging with the plate for sustaining the same against swinging beyond the vertical in one direction only, and a curved finger on the lever arranged to engage with the pedal for locking the same in clutch releasing position.

1,350,229. IRRIGATION-TILE. CHARLES O. LEE, Modesto, Calif. Filed Jan. 17, 1920. Serial No. 352,045. 3 Claims. (Cl. 61—13.)



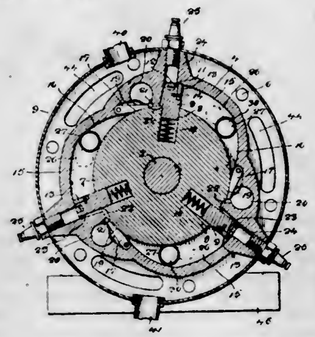
1. A tile of the class described having an inwardly extending wedge-shaped projection formed by converging portions of its wall, said projection forming a recess between its walls and having openings in its inner end which communicate with said recess.

1,350,230. NUT-LOCK. SAMUEL H. MCCAIN, Jr., San Francisco, Calif. Filed Mar. 25, 1920. Serial No. 368,544. 1 Claim. (Cl. 151—29.)



A nut lock comprising a pair of overlying wings forming a washer, said wings having an eyelet formed at the center to receive a bolt and a wire surrounding the eyelet and having its ends extending from the washer.

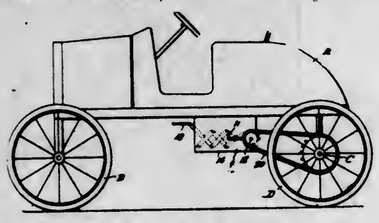
1,350,231. ROTARY MOTOR. WILLIAM L. MCFARLAND, Fairfield, Ill. Filed May 8, 1918. Serial No. 233,271. 6 Claims. (Cl. 123—16.)



1. In a rotary engine, the combination of a rotary engine shaft, a rotor fast thereon and having a plurality of vanes each movable in a substantially radial direction, and a non-rotary rotor casing formed with a plurality of internal combustion chambers elongated in a circumferential direction, and also having internal com-

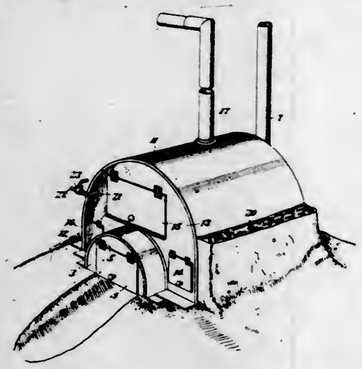
pression chambers which are cut off from communication with the respective combustion chambers during the major portion of the rotative movement of the rotor, the casing also having intake and exhaust ports in direct communication with said combustion chambers, the rotor having ports in its periphery which intermittently place the compression and combustion chambers in communication.

1,350,232. TOY VEHICLE. WILLIAM MOIR, Chicago, Ill. Filed Dec. 30, 1919. Serial No. 348,285. 2 Claims. (Cl. 208—38.)



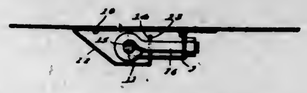
1. In a toy vehicle including a body, front wheels therefor, a rear axle and wheels thereon, a drive mechanism comprising a pair of plates secured beneath the body and having longitudinal slots, a crank shaft journaled through said plates and formed with crank portions, a chain and sprocket connection between said crank shaft and the rear axle, a lazy tongs disposed against each plate and having one forward link pivoted thereon and the other forward link provided with a pedal, means connecting the rear ends of each of the lazy tongs, said connecting means being slidable within said slot, and a pitman connected with said slidable connection and with the adjacent crank portion of the crank shaft.

1,350,233. FURNACE. FRANCIS C. NICHOLAS, Boston, Mass. Filed Aug. 30, 1917. Serial No. 188,881. 1 Claim. (Cl. 126—29.)



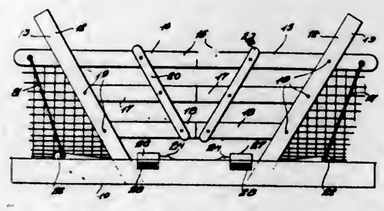
A furnace of the class described comprising an inner shell of semi-circular shape in cross section and provided with bottom flanges at its sides, end members closing the ends of said shell, a door in one of said end members, a chimney connected with the other end, a second shell of inverted U-shape in cross section of less length than the first shell, end members for said second shell, having semi-circular openings therein for engaging the projecting ends of the first shell, a door in one of said end members of the second shell, a chimney connected with the top of the second shell and flanges on the lower edges of the second shell and on the lower edges of the end members thereof, said last mentioned flanges engaging the flanges of the first shell.

1,350,234. CHAIN-PROTECTOR. WILL NORAS, Ellendale, N. D. Filed Sept. 22, 1919. Serial No. 325,289. 2 Claims. (Cl. 280—153.)



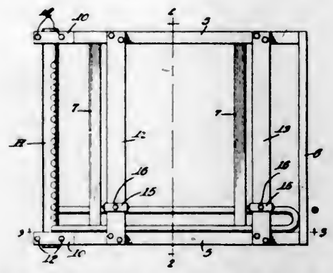
1. The combination with a vehicle fender including a supporting arm, a clamping plate engageable over said arm and an eye-bolt carried by said plate and engaging said arm, of a protector engageable with the eye-bolt and overlying the clamping plate, said protector including substantially parallel long and short walls, the former bearing upon the fender to provide a firm engaging base and an inclined wall connecting the parallel walls.

1,350,235. GATE. JAMES H. PICKETT, Queen, N. Mex. Filed Sept. 15, 1919. Serial No. 323,813. 2 Claims. (Cl. 39—18.)



1. A gate of the character described comprising a supporting frame disposed within a roadway, a pair of upwardly diverging posts secured to said frame at the intermediate portion thereof, a pair of similar gate sections adapted to bridge the space between said posts and each including a plurality of normally horizontally disposed bars individually pivotally connected with said posts and diagonally extending strips connecting said bars, one bar of each gate section projecting outwardly beyond the associated post, a pair of transversely disposed levers pivotally mounted in said frame and disposed in overlapping relation with their pivot points at opposite sides of the frame, links pivotally connected with the ends of said levers and with the projecting ends of said gate bars, and treadle members disposed upon opposite sides of the gate sections and bearing upon the intermediate portions of said levers.

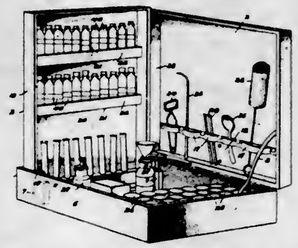
1,350,236. BOILER-UNIT-ASSEMBLING RACK. JOHN PIERCE, Jr., South Norwalk, Conn., assignor of one-half to Dickinson S. Cummings, Stamford, Conn. Original application filed Feb. 13, 1920, Serial No. 358,513. Divided and this application filed June 3, 1920. Serial No. 386,394. 6 Claims. (Cl. 29—89.)



1. In a work holder, a frame, means carried by the frame for supporting an element at one end of the frame,

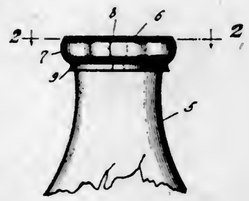
pairs of bars secured to the opposite faces of the frame and between which, elements, each including a pair of legs to be assembled with the first mentioned element, are arranged, and vertically adjustable blocks mounted between each pair of bars and adapted to engage both legs of the element to clamp the same in proper position with respect to the first mentioned element while said legs are being secured thereto.

1,350,237. EDUCATIONAL DEVICE. HAROLD M. PORTER, Hagerstown, Md., assignor to The Porter Chemical Company, a Corporation of Maryland. Filed Dec. 3, 1919. Serial No. 342,054. 20 Claims. (Cl. 206—16.)



9. In a device of the character described, a rectangular box provided with a cover hinged thereto, and means for preventing the cover from swinging outward beyond an upright position, in combination with a tray, means to alternately support the tray in its horizontal position in the box or to secure it in a vertical position and adjacent to the under side of the box cover when swung into an upright position, whereby the tray serves to hold the cover in its upright position, the tray being of a length equal to the interior depth of the box body plus the height of the upturned cover.

1,350,238. BOTTLE-CAP. CLARA M. RICE, Aberdeen, S. D. Filed Apr. 26, 1920. Serial No. 376,718. 1 Claim. (Cl. 215—81.)

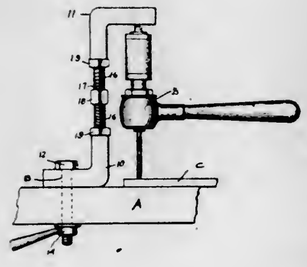


In a cover for bottles, a circular top, a curved depending flange having connection with the top throughout a portion of its length to provide spring arms, said spring arms adapted to overlap each other at the free ends thereof, and means forming a part of the spring arms to cam the same outwardly to cause the arms to grip the bottle to which the same is applied.

1,350,239. PROCESS OF PRODUCING COPPER-SULFATE SOLUTIONS FROM ORES. JAMES SINCLAIR ROSS, Westminster, London, England. Filed July 14, 1920. Serial No. 396,062. 1 Claim. (Cl. 23—13.)

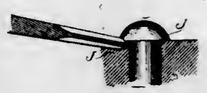
The process of producing copper sulfate solution directly from ores by treating unroasted copper carbonate ore with a dilute solution containing sulfuric acid at substantially below the boiling point, then bringing the resulting copper sulfate solution into contact with a further quantity of unroasted copper carbonate ore which has not been previously treated with acid, such second treatment being effected while the solution is maintained at substantially below its boiling point, and the treatment being continued until the solution becomes basic, subsequently heating the solution and maintaining it at near the boiling temperature, while subjecting the same to the direct action of air and steam, while in contact with solid basic copper compounds, and while maintaining the solution in a non-acid condition until the major part of the extraneous substance are precipitated and separating such precipitated extraneous substances from the boiled solution, substantially as described.

1,350,240. TOOL-CLAMP. WILLIAM L. ROSS, Jersey City, N. J. Filed Sept. 11, 1917. Serial No. 190,829. 1 Claim. (Cl. 77—59.)



The combination with a bench or like support; of means thereon for holding and advancing a drill to its work, comprising an angle foot member and an angle head member which is disposed thereabove, pivot means securing the foot member to the bench or support, binding means for said pivot means, the vertical legs of the respective head and foot members having bores one provided with right hand threads and the other with left hand threads, a bolt member having a central manipulating portion and a shank provided with right and left hand threads respectively from said manipulating portion and received in and engaging with the right and left hand threads in the legs of the said foot and head members, and lock nuts on the bolt contacting with the confronting ends of the said legs.

1,350,241. COLD-CHISEL. WILLIAM T. ROUTH, Helena, Ga. Filed June 9, 1919. Serial No. 302,642. 2 Claims. (Cl. 81—13.)

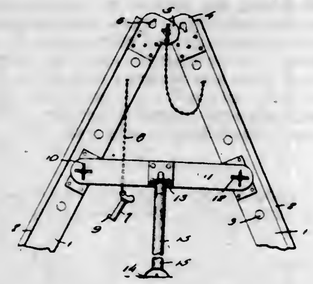


1. A cold chisel, comprising a body, and a blade, the lower portion of the blade having a cutting edge, and a plurality of wedge-shaped cutting ridges spaced apart and rising from the said cutting edge, on both sides of the said edge.

1,350,242. LADDER CONSTRUCTION. JULES L. SAGET, New Orleans, La. Filed Mar. 16, 1918. Serial No. 222,944. 1 Claim. (Cl. 228—33.)

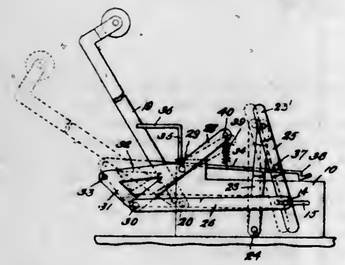
In a ladder, the combination of ladder sections hinged at their upper ends, turn keys arranged on the sides of the sections, links having slots formed on their ends that

receive the keys of the sections and also having members secured to the center of the links, and ears formed on the



lower end of said members and having apertures therein, and laterally extending props having ends adapted to enter said apertures.

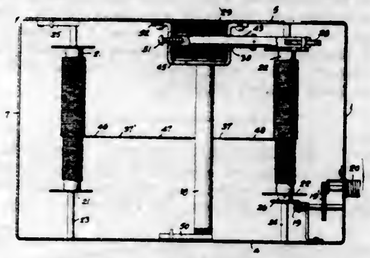
1,350,243. TROLLEY-CONTROL. MIKE SHUKITES, Jr., Johnston City, Ill. Filed Feb. 27, 1918. Serial No. 219,476. 2 Claims. (Cl. 191—88.)



1. A trolley pole control and support including a casing, a trolley pole pivotally mounted thereon, a pair of spaced levers pivotally mounted at points intermediate their ends upon the casing, a bolt connecting adjacent ends of said levers to afford a support for the trolley pole in its lowered position, a coil spring within the casing having one end connected to the trolley pole, a block slidably mounted in the casing to which the other end of the spring is secured, links connecting said levers with the block, a pair of arms connected to the back, a transverse bolt carried by said arms, a bell crank member pivotally mounted on the casing to engage the bolt to retain the block in shifted position to tension the spring, and a coil spring connecting said arm with the levers, the bell crank member being engageable by the trolley pole when suddenly moved upward to release the bolt whereby the block may return to normal position to render the spring effective.

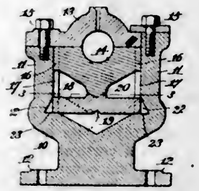
1,350,244. VEHICLE-ROUTE-INDICATOR DEVICE. EDWARD SIEGEL, Elmhurst, N. Y. Filed Oct. 30, 1919. Serial No. 334,479. 5 Claims. (Cl. 40—42.)

1. A route indicator comprising a continuously movable member, a master control device actuated thereby including a plurality of spools rotatably mounted, and an element wound thereon, the said element having insulated portions distributed throughout the length thereof, a direction indicator including a tape having indicia bearing portions, and spools therefor, a driving means for the direction indicating means, and an electroresponsive clutch



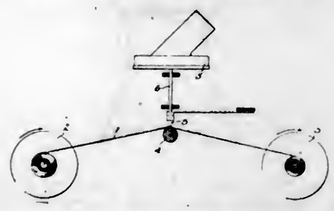
means governed by the master control mechanism, adapted to be shifted thereby for intermittently actuating the tape to visualize the indicia bearing portions successively.

1,350,245. BEARING. JOSEPH F. STACHOWSKI, New York, N. Y. Filed Nov. 28, 1919. Serial No. 341,105. 3 Claims. (Cl. 64—10.)



2. A bearing including a body member, a plurality of parts recessed to form a shaft hole supported by said body member, one of said parts being arranged for sliding movement, and a separate element, weakened to a predetermined strength by its being checked, supporting said last mentioned part.

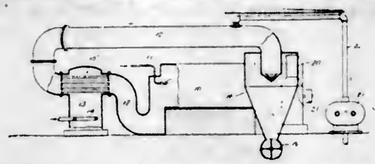
1,350,246. SOUND RECORDER AND REPRODUCER. EUGEN STEIGER, Zurich, Switzerland. Filed July 15, 1919. Serial No. 311,058. 8 Claims. (Cl. 274—46.)



8. A process of recording sound, which consists in causing a structureless, twistless thread to unwind from one spool and, at the same time, wind on another spool, impressing a record of sound vibrations on that portion of the thread which is between the two spools, then winding the thread back upon the spool from which it was taken originally, thereby bringing it into condition to be operated for purposes of reproducing.

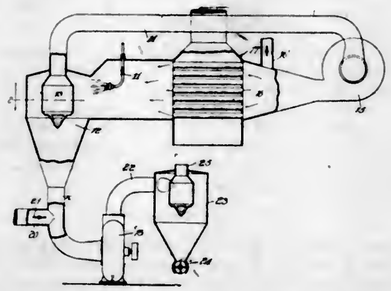
1,350,247. PROCESS FOR DESICCATING FLUID SUBSTANCES. RICHARD W. G. STUTZKE, Chicago, Ill., assignor to Crown Maltose Company, Chicago, Ill., a Corporation of Illinois. Filed June 8, 1916. Serial No. 102,441. 2 Claims. (Cl. 127—9.)

2. The process of evaporating liquids, which consists in spraying the liquid into an atmosphere entirely of its own vapor, circulating said atmosphere and super-heating it during its circulation, and exhausting the evaporated



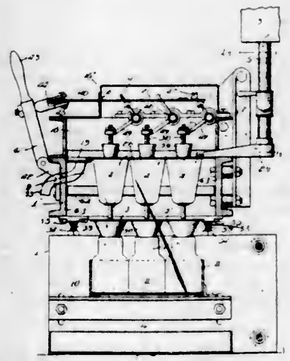
liquid from the circulating system at such a rate as to maintain a sub-atmospheric pressure therein, and collecting the desiccated solids.

1,350,248. ART OF DESICCATING MILK AND THE LIKE. RICHARD W. G. STUTZKE, Chicago, Ill., assignor to The G. A. Buhl Company, Chicago, Ill., a Corporation of Illinois. Filed July 9, 1917. Serial No. 179,490. 8 Claims. (Cl. 127—9.)



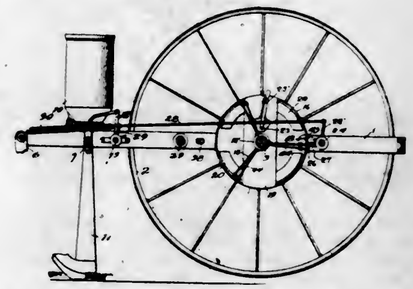
6. The method of desiccating liquids containing albuminous substances such as milk, which consists in subjecting said substances in finely divided form to the action of a circulating current of superheated water-vapor, preliminarily collecting the resultant dried solids within the circulatory system, venting the collected solids from the system in suspension in a discharging current of superheated water-vapor, admixing said current with air, and finally collecting the suspended solids from the admixed current.

1,350,249. BOTTLING-MACHINE. AXEL E. SWANSON, Chicago, Ill. Filed Jan. 31, 1919. Serial No. 274,306. 2 Claims. (Cl. 226—70.)



1. A receptacle filling machine, adapted for the rapid handling of liquids of more or less viscid character such as vanishes, paints and the like, comprising in combination a frame, a large master gage, a plurality of relatively small unit gages designed and arranged to serve one for each receptacle to be filled, a broad manifold connecting said master gage and unit gages for transmitting and distributing the successive contents of the former to the latter, the bottom of said manifold being broad and provided with horizontal rows of outlets, and means for controlling the temperature and corresponding fluidity of the liquid as it passes through said machine.

1,350,250. MECHANICAL MOVEMENT. JOHN R. WARREN, Marshalltown, Iowa. Filed Feb. 13, 1917. Serial No. 148,316. 3 Claims. (Cl. 74—14.)



1. In an apparatus of the class described, a rotating member, a plurality of radially disposed fingers carried by said rotating member, a supplemental finger associated with each of the radial fingers and swinging relative thereto, means for adjusting the supplemental fingers at their free ends toward and away from the radial fingers, a support adjacent the rotating member, a transmitting arm carried by the supporting member, and a trip carried by the supporting member and extending into the paths of the supplemental fingers.

1,350,251. TRICK POCKET-KNIFE. ROBERT ARMOUR, Providence, R. I. Filed July 23, 1919. Serial No. 312,744. 2 Claims. (Cl. 46—41.)

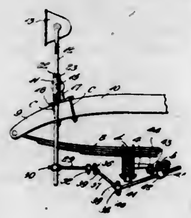


1. A trick pocket knife having a two part handle, extensions on the handle parts, an intermediate blade, a pivot pin through the handle extensions and the blade, concealed means for locking the blade in the handle and deceptive means rotatably secured to the pivot pin, whereby the deceptive means has the appearance of the means for unlocking the knife.

1,350,252. DIRIGIBLE HEADLIGHT. GEORGE H. BUDD, Salt Lake City, Utah. Filed Apr. 15, 1919. Serial No. 290,209. 1 Claim. (Cl. 240—62.)

A headlight steering attachment for automobiles including a vertical bearing, an upper light-carrying shaft

section having its lower end rotatably received in said bearing, a shoulder on said shaft section disposed at the upper end of the bearing, the lower end of said shaft section being reduced and extending below the bearing,



a nut threaded on said reduced end, said nut and said shoulder preventing sliding of said shaft section in said bearing, and a lower tubular light-turning shaft section receiving said reduced end of said upper section and secured thereto.

1,350,253. REPAIR-CLAMP FOR AUTOMOBILE-RUNNING-BOARD TRUSS-RODS. GEORGE K. CAVINESS, Seymour, Iowa. Filed Jan. 2, 1920. Serial No. 348,948. 3 Claims. (Cl. 280—163.)



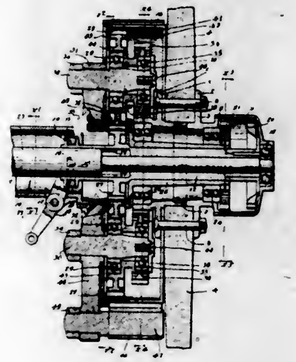
1. The combination with a running board truss rod and supporting bracket, of a repair clamp for the truss rod comprising a neck portion and a head portion and divided longitudinally to embrace the truss rod, the truss-receiving lug of the bracket and the lock nuts on the truss rod, the repair clamp having matching means for the reception of a clamp bolt to hold the clamp in housing relation to the nut end of the truss rod and the body of the truss rod on opposite sides of a break in the truss rod.

1,350,254. ABSOLUTE ALCOHOL AND THE PROCESS OF MAKING THE SAME. GEORGE BELL FRANKFORTER, Minneapolis, Minn. Filed Dec. 20, 1918. Serial No. 267,678. 6 Claims. (Cl. 195—6.) Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A process for the preparation of absolute alcohol consisting in treating common commercial alcohol with a mixture of potassium carbonate and potassium fluorid so as to remove some of the water, decanting the alcohol, then heating in an autoclave retort under a pressure of approximately 55 pounds per square inch with quicklime until all but a trace of water has been removed and finally distilling and passing the vapor formed by distillation over calcium carbid whereby the last trace of water is removed.

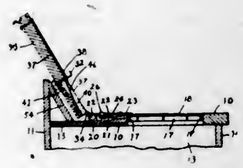
1,350,255. VARIABLE-SPEED DEVICE. ARNOLD H. JESSEN, Los Angeles, Calif., assignor to Big Four Wheel Company, Los Angeles, Calif. Filed Dec. 26, 1918, Serial No. 268,325. Renewed July 14, 1920. Serial No. 396,331. 10 Claims. (Cl. 74—58.)

1. In a variable speed device, the combination with a vehicle axle and a housing therefor, of a spindle fastened to the axle housing and having an opening, a wheel journaled on the spindle, a gear fastened to the wheel, reduction gearing to drive said gear extending through the opening in the spindle, clutch means between the wheel



and axle, and means either to connect the reduction gearing with the axle inside of the spindle or to throw the clutch means into engagement.

1,350,256. PHOTOGRAPHIC-PRINTING MACHINE. ALFRED E. KAISER, Seattle, Wash., assignor to Specialty Manufacturing Company, Seattle, Wash., a Corporation of Washington. Filed Nov. 19, 1917, Serial No. 202,868. Renewed June 28, 1920. Serial No. 392,513. 5 Claims. (Cl. 95—73.)

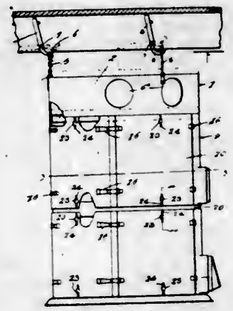


4. In a device of the class described, the combination with an apertured support having a transparent plate in the aperture thereof and means to clamp a photographic negative on said plate, of a platen board hinged to said support and having a spring pressed means to normally clamp a sheet of sensitized paper against the engaging face thereof, and a bumper carried by the support engageable by the paper clamping means when the latter is swung to an inoperative position away from the transparent plate and negative to automatically release said paper clamping means from the paper and the paper from the platen board, said paper clamping means affording a support for the paper at all times when the platen board is moving from operative to inoperative position.

1,350,257. SECTIONAL CASING FOR FURNACES. WILLIAM F. KASBOHM, Vanwert, Ohio. Filed Feb. 16, 1916. Serial No. 78,655. 4 Claims. (Cl. 126—114.)

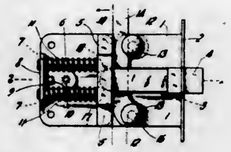
1. The combination with a furnace casing comprising a body consisting of a plurality of independently removable

sections, and a removable hood for said body, of means for elevating and suspending the hood so as to permit



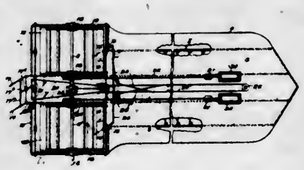
said sections of the body to be removed independently of said hood.

1,350,258. LATCH FOR DOORS, GATES, AND THE LIKE. HENRY RALPH KELLERMAN, Sydney, New South Wales, Australia, assignor of one-half to Henry Petrie Fletcher, Sydney, New South Wales, Australia. Filed Jan. 28, 1919. Serial No. 273,632. 4 Claims. (Cl. 292—173.)



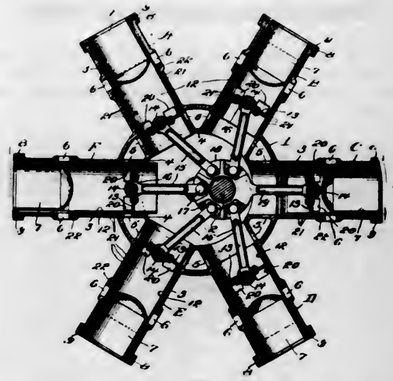
1. A reversible lock for vehicle doors having a base plate, guides on the opposite ends of the base plate, a latch bolt mounted in said guides, a spring for actuating the latch bolt, alternative fulcrum pins fixed in the base plate and positioned on opposite sides of the latch bolt, a detachable and reversible lever for releasing the latch bolt and adapted for insertion into either side of the lock for pivotal engagement with one of said pins and having its motion limited by the opposite pin.

1,350,259. MARINE VESSEL. WILLIAM P. LAY, Gadsden, Ala. Original application filed July 28, 1917, Serial No. 183,253. Divided and this application filed Mar. 26, 1918. Serial No. 224,812. 1 Claim. (Cl. 115—50.)



In combination with the hull of a vessel having its stern recessed inwardly from the sheer planes in the sides to form wheel pockets, paddle wheels arranged within said pockets, independent shafts for each of said wheels, said shafts being axially alined and independent gear wheels upon the inner ends of said shafts, a power plant, lead shafts extending from the power plant to a point directly beneath the gears and the ends of the wheel shafts, worm gears carried by the ends of the lead shafts for engagement with the gears on the wheel shafts, reversing mechanism connected with the lead shafts and disposed between the power plant and the outer ends of said shafts and a clutch mechanism connecting the inner ends of the wheel shafts whereby said shafts are positively connected together so that they can be rotated unidirectly forward or backward.

1,350,260. TWO-CYCLE ROTARY-CYLINDER INTERNAL-COMBUSTION ENGINE. ALBERT R. LONG, Ballston, Va. Filed Jan. 8, 1920. Serial No. 350,098. 7 Claims. (Cl. 123—44.)



1. A rotary multiple cylinder engine comprising a crank case and cylinders, said cylinders being radially disposed and having their inner portions extended into the engine crank case and formed with ports, the outer portions having intake and exhaust ports therein and sleeve valve pistons slidable in the cylinders for alternately controlling said intake and exhaust ports and having ports therein adapted to intermittently register with said first ports for supplying a scavenging current to the pistons and cylinders.

1,350,261. CORN-GRINDER. FRED M. LYON, Pontiac, Ill. Filed Oct. 19, 1916. Serial No. 126,604. 3 Claims. (Cl. 83—13.)

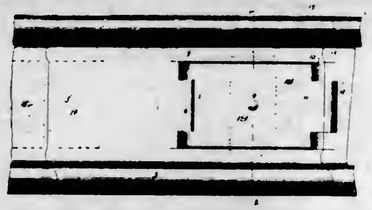


1. A cast metal grinding element for grinding soft grain and cobs, having a grinding surface inclined to the axis of the element, the grinding surface being provided with relatively large spaced inclined ridges decreasing in depth from the feed toward the discharge ends, the surface of the grinding element between said ridges being grooved to form lesser ridges, all the ridges having sharp cutting edges, and the operative surface of the element, including all the ridges and depressed surfaces, being ground and polished throughout.

1,350,262. COLLAPSIBLE AUTOMOBILE-RIM. LILLIAN BERTHA OLNEY, San Francisco, Calif., assignor of one-half to Foster Weeks and Frank Berry, San Francisco, Calif. Filed Sept. 13, 1919. Serial No. 323,562. 2 Claims. (Cl. 301—32.)

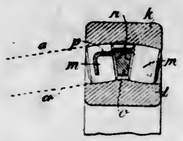
1. A collapsible automobile rim including a flanged major section and a flanged minor section hinged at one

end of the major section, the minor section recessed back from one end, and a plate having one end hinged at the inner end of the recess and the other end hinged to one



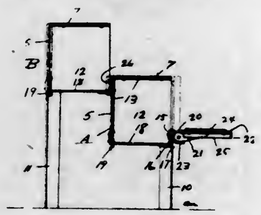
end of the major section, said plate of a length to cause the flanges at the end of the minor section to abut the flanges at the end of the major section when the rim is expanded.

1,350,263. ROLLER-BEARING. NILS ARVID PALMGREN, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Dec. 16, 1919. Serial No. 345,321. 5 Claims. (Cl. 64—62.)



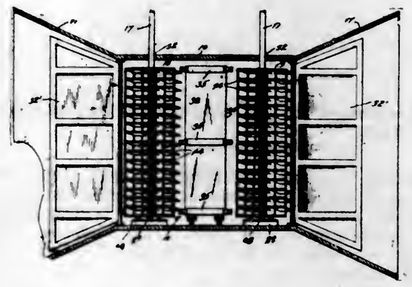
2. In a roller bearing, the combination of an inner race, an outer race having a spherical rolling surface for the rollers, and two rows of rollers between said races, the axes of the rollers of the respective rows converging in cones having their axes on the bearing axis at opposite sides of the bearing, each of said rollers having an outwardly curved rolling surface of such shape that it bears against at least one of the rolling surfaces of said races along the greater portion of the length of the roller and that the tangents to the roller in the axial plane of the bearing at the points through which the resultants of forces acting on the roller from the rolling surfaces of said races pass are parallel so that the roller rolls substantially as a cylinder.

1,350,264. PORTABLE NEST STRUCTURE. ELMER M. PRATT and ALBERT H. ROCKEFELLER, Macksville, Kans.; said Pratt assignor to said Rockefeller. Filed June 25, 1919. Serial No. 306,710. 1 Claim. (Cl. 119—45.)



A portable nest structure of the character described comprising superposed bodies, one being arranged forwardly of the other in a step by step fashion, each body being formed from sheet metal having an open front and bottom, a support for the bodies having angle irons forming corner legs, partitions arranged within each body for dividing the same into independent compartments, a front strip secured to the lowermost body at its open front, ears formed on the partitions in the lowermost body and fastened to the front strip, a spacer strip located between the bodies and having bends for engaging the partitions in the upper most body, a running board swingingly supported on the front strip and adapted to be moved to a position for closing the lowermost body and also to be moved to another position to lie in a horizontal plane, a door section hinged to each body at its bottom, and means for latching the door sections closed.

1,350,265. HYDRAULIC MOTOR. JOSEPH GABRIEL RECUERO, New York, N. Y. Filed June 30, 1919. Serial No. 307,548. 2 Claims. (Cl. 170—101.)



1. A hydraulic motor comprising a conduit, driven wheels operatively mounted in said conduit, a shiftable deflector arranged in the conduit between the wheels, said deflector being movable at right angles to the line of movement of water passing through the conduit and serving to automatically expose one of the wheels to the active force of water passing through the conduit and to shield the remaining part of said wheel from the action of water passing through the conduit, tide actuated deflectors mounted in the conduit at points in advance of said wheels, said shiftable deflector including an under carriage, and rails mounted upon the base of the conduit for supporting said under carriage.

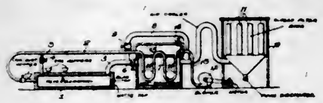
1,350,266. SEAT-SUPPORT ON AIRCRAFT. ALLIOTT VERDON ROE, Hamble, Southampton, England. Filed Oct. 31, 1918. Serial No. 260,517. 4 Claims. (Cl. 344—30.)



1. In an aeroplane, the combination with a fuselage having a framework comprising longeron, cross strut and tie members, of a series of transverse joists, a pair of longitudinal beams secured to said joists, a seat, means for attaching the said seat to said beams, a tension wire attached at each side to said seat and passing under said beams, and a tension adjusting member connected in said wire.

1,350,267. HEAT-REGENERATOR. LEWIS BAILEY SKINNER, Denver, Colo. Filed Feb. 10, 1919. Serial No. 276,126. 5 Claims. (Cl. 263—14.)

1. Metallurgical apparatus comprising the combination, with a metallurgical furnace, of a heat regenerator having passages for conducting to and for conducting from said furnace, respectively, said passages being defined and



separated by a metal wall, and the wall surface next the furnace gases being provided with an adherent protective coating of condenced metalliferous fume.

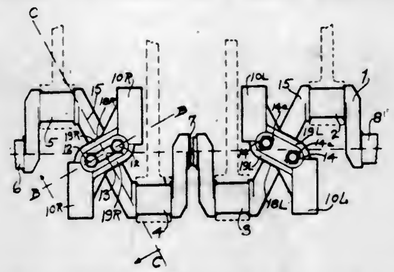
1,350,268. PROCESS OF PROTECTING METAL PIPES EXPOSED TO HIGH TEMPERATURES. LEWIS B. SKINNER, Denver, Colo. Filed Feb. 11, 1918, Serial No. 216,503. Renewed July 9, 1920. Serial No. 395,172. 6 Claims. (Cl. 91—70.)

1. In the art of heat exchange by regeneration, a process of protecting the surfaces of metallic conduits exposed to the heating gases which consists in depositing on said surfaces a coating of zinc oxid bearing fume from said heating gases.

3. In the art of heat exchange by regeneration of heat contained in metallurgcial gases, a process of protecting the surfaces of metallic conduits exposed to the heating gases which consists in depositing on said surfaces a coating of fume from said heating gases, said coating being composed of compounds of volatile metallic constituents of the ore under treatment.

6. In the art of heat exchange by regeneration, the process which comprises preliminarily passing combustion gases carrying zinciferous fume from a reverberatory furnace into contact with iron regenerator pipes, while controlling the heat in such manner as to substantially prevent burning said pipes, until an adherent coating of fume is condensed thereon, and then operating the furnace in such manner that the gases passing in contact with the coated pipes are at a temperature above about 1000° C., while passing air for combustion through said pipes.

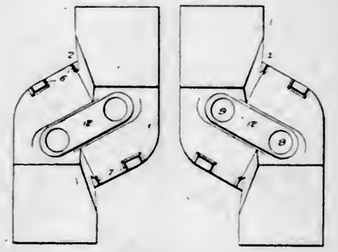
1,350,269. DETACHABLE COUNTERBALANCE FOR MOTOR CRANK-SHAFTS. ROLLAND S. TROTT, Denver, Colo. Filed May 2, 1919. Serial No. 294,236. 9 Claims. (Cl. 74—5.)



8. The combination with a crank shaft having two arms, and a counterbalance supported by the latter, said counterbalance composed of two members adapted to cross the point of support, each of which members has a weight at its opposite ends.

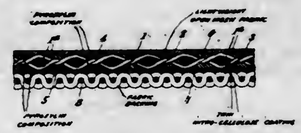
1,350,270. DETACHABLE COUNTERBALANCE-WEIGHT FOR MOTOR CRANK-SHAFTS. ROLLAND S. TROTT, Denver, Colo. Filed Sept. 24, 1919. Serial No. 325,864. 9 Claims. (Cl. 74—5.)

1. A crankshaft counterbalance including two members having weighted outer ends and an oblique center connecting the weighted ends, the inner faces of the oblique centers provided with lugs between which the oblique arms of the crankshaft are received with the weighted ends of each member disposed on the opposite sides of the



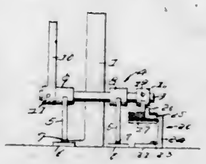
arms, bolts extending transversely of the centers of the two members for securing the counterbalances to the arms of the crank shaft.

1,350,271. METHOD OF FORMING ARTIFICIAL LEATHER AND THE PRODUCT THEREOF. CHARLES ELWOOD ARNOLD, Wilmington, Del., assignor to du Pont Fabrikoid Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 23, 1915. Serial No. 57,416. 38 Claims. (Cl. 154—2.)



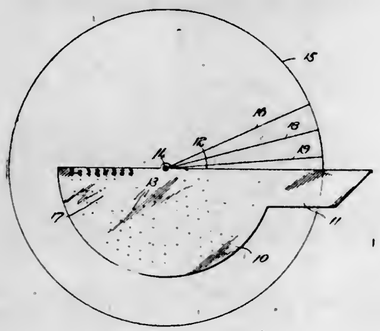
1. The process which comprises embedding a light fabric in a coating composition, the fabric having previously had its diagonal stretch reduced by the application of a coating.

1,350,272. FOOT-OPERABLE IMPRESSION THROW-OFF. JOSEPH W. BERNET, New London, Conn. Filed Nov. 29, 1918. Serial No. 264,682. 1 Claim. (Cl. 74—81.)



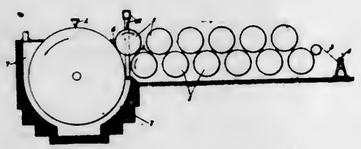
A foot actuable throwoff attachment for printing presses consisting of a rock shaft having connected therewith a link for attachment to the crank arm of the throwoff shaft and a contractile spring provided with a terminal sleeve for engagement with said throwoff shaft, a pedal carried by the rock shaft, means for supporting the rock shaft in convenient relation to the front of the machine, and a locking member mounted for movement into and out of the path of the pedal and consisting of a slotted base of which the slots are engaged by guide pins or bolts, a standard having an offset or shoulder for engagement with the pedal when the locking member is in the path of the latter, and a terminal upstanding projection at the extremity of said offset for engagement by the foot of the operator to move said member into and out of operative relation with the pedal.

1,350,273. PROTRACTOR. BENJAMIN K. FISHER, St. Louis, Mo. Filed Mar. 24, 1917. Serial No. 157,084. 3 Claims. (Cl. 33—75.)



1. A protractor comprising a body having a ruling edge and a fixed axis of rotation about which it is adapted to be rotated over a surface to be marked, and through which body an indicated point fixed relatively to the surface to be marked can be observed, said body having a plurality of rows of division points indicated thereon and arranged concentric with the axis of rotation of the body, whereby the rotation of the body will bring the division points of a given row successively into coincidence with an indicated point fixed relatively to the surface to be marked to determine successive positions of the ruling edge.

1,350,274. PROCESS OF MAKING PHOTOGRAPHIC FILMS. EDMUND M. FLAHERTY, Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 5, 1918. Serial No. 265,324. 16 Claims. (Cl. 18—57.)

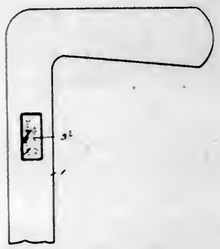


1. The process which comprises depositing a nitrocellulose film from a solution containing nitrocellulose, normal butyl acetate and a diluent.

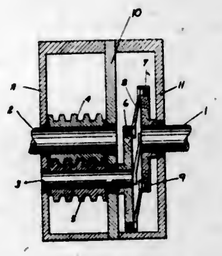
16. The process which comprises depositing a nitrocellulose film from a solution containing nitrocellulose, normal butyl acetate, normal butyl alcohol and camphor upon a revolving drum, continuously stripping the film from the drum, and then drying and winding the film into rolls.

1,350,275. IDENTIFICATION DEVICE. GOODMAN GAFINOWITZ, Burlington, Vt. Filed May 24, 1918. Serial No. 236,297. 1 Claim. (Cl. 40—10.)

The combination with a handle substantially circular in cross section having a polygonal recess provided in the side and end walls thereof with a continuous groove, of a card correspondingly shaped to the recess and fitted within the same inwardly relative to said groove, a transparent cover superposed upon the card to lie in a plane inwardly with respect to said groove, and a resilient split wire loop corresponding to the polygonal shape of the recess to prevent movement of the loop therein and of slightly greater size than the groove for snapping engagement therewith, the ends of the wire being turned outwardly of said groove toward the center of the recess and lying wholly within the plane of the external surface of the handle.

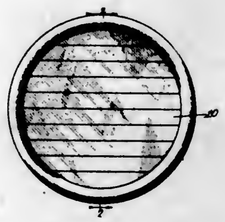


1,350,276. DIFFERENTIAL LOCK AND REVERSING MECHANISM. EDWIN J. GOULD, Oakland, Calif. Filed May 22, 1920. Serial No. 383,512. 4 Claims. (Cl. 74—99.)



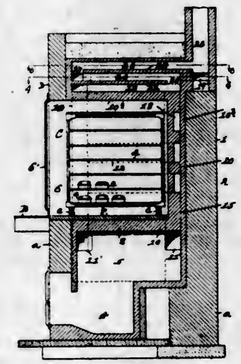
1. The combination in a reversing mechanism, of two intermeshing toothed wheels, two disk wheels operating in conjunction with said toothed wheels, pivoted connection rods securing said disk wheels each to the other, to impart a reverse action from one of said toothed wheels to one of said disk wheels and from thence to the other of said disk wheels substantially as set forth.

1,350,277. COVER FOR HEADLIGHTS. LARS O. GRONDAHL, Pittsburgh, Pa., and AUGUST H. PFUND, Baltimore, Md. Filed Oct. 29, 1917. Serial No. 198,983. 3 Claims. (Cl. 240—48.4.)



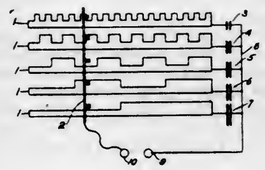
1. A cover for headlights comprising two mating pieces of glass fitted together, each of the mating surfaces being provided with prismatic projections fitted together, one set of faces of the prismatic projections sloping rearwardly at an angle with the vertical, the other set of faces sloping slightly downwardly and inwardly from the horizontal.

1,350,278. MANUFACTURE OF BAKED GOODS. AMOS F. HARTZELL, Knoxville borough, Pa., assignor to Standard Oven Company, Pittsburgh, Pa. Filed Nov. 27, 1918. Serial No. 264,318. 3 Claims. (Cl. 107—56.)



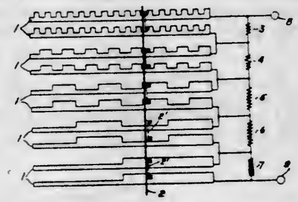
1. A baking oven comprising a furnace portion, a baking chamber above said furnace portion, means for heating the top of the baking chamber including a pair of horizontally spaced substantially horizontal flues, a second pair of horizontally spaced substantially horizontal flues, each of the last mentioned flues being vertically spaced with respect to one of the first mentioned flues and in communication therewith, flue means connecting the first mentioned pair of flues with the furnace portion, an outlet having the second pair of flues communicating therewith, the products of combustion being directed forwardly and then rearwardly with respect to the baking chamber through said pairs of flues, a third pair of vertically spaced substantially horizontal flues displaced between the other pair of flues, one of the same being in communication with said outlet, and a flue means connecting the other or said third pair of flues with the furnace portion, the third pair of flues being adapted to direct the products of combustion rearwardly and then forwardly with respect to the baking chamber.

1,350,279. ADJUSTABLE CONDENSER. PAUL J. HOWE, Ridgewood, N. J., assignor to Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1918. Serial No. 215,937. 4 Claims. (Cl. 250—41.)



1. The combination, with a series of five condensers of progressively varying values, of contact means and a single operating member therefor, said contact means comprising means adapted, under control of said operating member, to connect said condensers singly or in various combinations in parallel of twos, threes, fours, etc., to suitable terminals.

1,350,280. ADJUSTABLE RHEOSTAT. PAUL J. HOWE, Ridgewood, N. J., assignor to Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1918. Serial No. 215,938. 4 Claims. (Cl. 219—48.)



4. The combination, with a series of three or more resistances of varying values, of a contact device therefor comprising a series of brushes, a contact member for each such brush, and a series of toothed cams, one for each such brush and adapted to move it into contact with, or to permit it to withdraw from, the corresponding contact member, said cams so toothed and said brushes and contact members so interconnected that by operation together of said cams said resistances may be connected to suitable terminals singly or in various series combinations.

1,350,281. PROCESS OF PRODUCING ARTIFICIAL LEATHER AND PRODUCT THEREOF. JAMES LYNAH, Newburgh, N. Y., assignor to du Pont Fabrikoid Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 23, 1915. Serial No. 57,418. 18 Claims. (Cl. 154—2.)



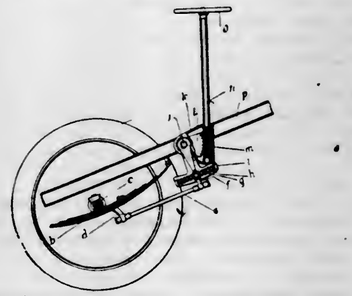
1. The process which comprises embedding an open mesh woven textile fabric in a coating composition, and then combining the same with a fabric backing.

1,350,282. [WITHDRAWN.]

1,350,283. [WITHDRAWN.]

1,350,284. [WITHDRAWN.]

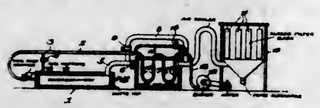
1,350,285. STEERING-CONTROLLER. PHILIP A. WEIGEL, Riverton, N. J., assignor of one-third to Edward Gumbel and one-third to Generoso Di Giacomo, Philadelphia, Pa. Filed Oct. 13, 1919. Serial No. 330,233. 2 Claims. (Cl. 74—79.)



1. In a steering controller the combination with an automobile frame, of a stud shaft journaled thereon, a

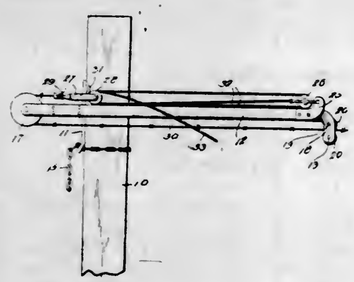
worm-gear-segment and a relatively rigid T-lever mounted on said shaft, a ball lever mounted co-axially with said T-lever, a bar carried by and secured to lugs on said T-lever, a slotted opening in said ball lever, said bar passing through said opening, washers on said bar on either side of said ball lever, springs positioned around said bar and between said lugs and washers and means for actuating said segment, substantially as described.

1,350,286. PROCESS OF TREATING ORES. LEWIS BAILEY SKINNER, Denver, Colo. Continuation of application filed Feb. 11, 1918, Serial No. 216,594. This application filed Feb. 10, 1919. Serial No. 276,125. 20 Claims. (Cl. 75—17.)



1. The process of treating complex zinkiferous ores carrying precious metal values which comprises preparing a mixture of an oxidized ore of the character specified with an excess of carbonaceous reducing material, the mixture containing matte-forming constituents, charging said mixture on the hearth of a reverberatory furnace, firing the furnace with suitable fuel and smelting the charge at a furnace temperature of at least about 1200° C. to produce molten matte and supernatant slag shielded by a nonoxidizing atmosphere, conducting from the furnace fume resulting from reduction and volatilization of zinc from the charge, and continuing the heat treatment of said molten mass until slag tapped from the furnace contains not substantially more than about 6 per cent. zinc.

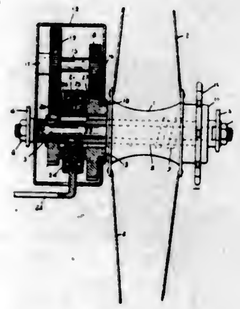
1,350,287. WIRE-STRETCHER. BENNIE NORTWED, Kellerton, Iowa. Filed Apr. 7, 1919. Serial No. 288,022. 1 Claim. (Cl. 254—65.)



A device of the character described comprising a post engaging saddle plate, an arm mounted thereon at one side extending forwardly in the line of wire stretching a considerable distance, and extending in the opposite direction a much shorter distance, a wire keeper at the forward end of the arm, a wire guiding pulley at the rear end, and a wire take-up device mounted adjacent the rear end of the arm, positioned and constructed to engage and draw a wire forwardly from said pulley.

1,350,288. VARIABLE-SPEED DEVICE FOR CYCLES. ROBERT R. BARON, Indianapolis, Ind., assignor, by direct and mesne assignments, of one-half to George A. Hug, Indianapolis, Ind. Filed Aug. 4, 1919. Serial No. 315,212. 2 Claims. (Cl. 74—59.)

1. A variable speed device for cycles comprising an axle, a shaft thereon, a wheel, a gear fixed thereto, a gear loosely mounted on said shaft, reduction gears connecting said gears, a clutch interposed between said first mentioned gears and keyed to said shaft to allow of longitudinal motion of the same, means for shifting said clutch, a sprocket mounted in proximity to said wheel, said sprocket being operatively connected to said shaft.



2. A variable speed device for cycles comprising an axle, a hollow shaft surrounding said axle, a wheel mounted on said hollow shaft, a gear fixed to said wheel, another gear loosely mounted on said hollow shaft, reduction gears connecting said two gears, a clutch-part interposed between said gears and keyed to said hollow shaft, means for sliding said clutch-part longitudinally on said hollow shaft to engage either one of said gears or stand between them free of engagement with either, and means for driving said hollow shaft, substantially as set forth.

1,350,289. STRUCTURE. THOMAS EDGAR RICHARDS, London, England. Filed Sept. 4, 1918, Serial No. 252,649. Renewed July 10, 1920. Serial No. 395,380. 13 Claims. (Cl. 20—1.)

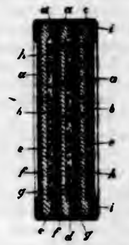


13. In a portable and knockdown hangar for aeroplanes, in combination, a series of triangular rafter trusses supported at their rear ends and extending forward and obliquely upward, a ridge member uniting said trusses, purlins uniting said trusses at their front and rear ends, said trusses having a vertical member arranged to come directly under the ridge member, means for supporting said trusses beneath said vertical members, said trusses extending forward from said vertical members as cantalivers, and interfittings whereby the whole may be knocked down for easy transportation.

REISSUES.

14,929. DRY BATTERY. FERDINAND P. BAUMANN, Küsnacht, Switzerland, assignor, by mesne assignments, to G. H. Rein, New York, N. Y. Filed May 27, 1920. Serial No. 384,737. Original No. 1,267,620, dated May 28, 1918, Serial No. 79,198, filed Feb. 18, 1916. 3 Claims. (Cl. 204—38.)

3. A battery unit comprising a carbon electrode in plate form, an opposite metallic electrode also in plate form and arranged against one face of the carbon plate but insulated therefrom, a cavity being provided between said plates and containing an electrolyte, the carbon plate being impregnated throughout its exterior face with an im-



pervious filling which penetrates the pores at the surface thereof only to which face is also intimately attached a metal covering.

14,930. NON-CUMULATIVE WAX POLISH. WILLIAM H. DAMON, Los Angeles, Calif. Filed Mar. 24, 1919. Serial No. 284,837. Original application filed Aug. 30, 1916, Serial No. 118,594. Renewed July 2, 1917, Serial No. 178,268. Original No. 1,240,545, dated Sept. 18, 1917. 7 Claims. (Cl. 134—24.)

1. The herein described cleaning and polishing composition consisting of water, soap, diatomaceous earth, wax, and light petroleum distillate, substantially in the proportions specified.

2. A composition consisting of two gallons of water, one pound of soap, one to two pounds of diatomaceous earth, two pounds of wax, and two and one-half gallons of light petroleum distillate, substantially as described and for the purposes specified.

3. A polish containing soap, a finely powdered mild abrasive of low specific gravity, a light hydrocarbon volatile at ordinary temperatures, and sufficient water to permit the soap and hydrocarbon to be brought into the form of an emulsion and the abrasive into suspension in the emulsion.

4. A cleaning and polishing composition containing soap, a finely powdered mild abrasive, a waxy substance, a fluid hydrocarbon, and sufficient water to permit the soap and hydrocarbon to be brought into the form of an emulsion and the abrasive into suspension in the emulsion.

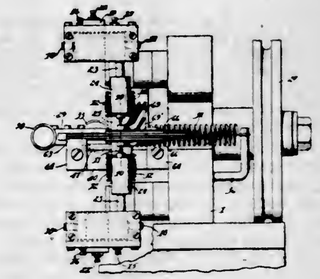
5. A cleaning and polishing composition containing soap, a finely powdered mild abrasive, wax, a light hydrocarbon, and sufficient water to permit the soap and hydrocarbon to be brought into the form of an emulsion and the abrasive into suspension in the emulsion.

6. A cleaning and polishing composition containing soap, a finely powdered mild abrasive, a waxy substance, light petroleum distillate, and sufficient water to permit the soap and petroleum distillate to be brought into the form of an emulsion and the abrasive into suspension in the emulsion.

7. A polish containing soap, a finely powdered mild abrasive of low specific gravity, a hydrocarbon volatile at ordinary temperatures, and sufficient water to permit the soap and hydrocarbon to be brought into the form of an emulsion and the abrasive into suspension in the emulsion, the water and the hydrocarbon being in relatively large proportions compared with the other ingredients.

14,931. EYELETING-MACHINE. FRANK L. HARMON, Beverly, Mass., assignor to Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Oct. 11, 1919. Serial No. 330,137. Original No. 1,262,336, dated Apr. 9, 1918, Serial No. 875,371, filed Dec. 3, 1914. 22 Claims. (Cl. 218—15.)

1. An eyeleting machine, comprising mechanism for punching holes in material, and inserting and clenching eyelets in said holes, and means for feeding the material to space the eyelets connected and arranged to operate while the clenching of the eyelets is being performed.



2. An eyeleting machine, comprising mechanism for punching holes in material, inserting eyelets in said holes, and clenching said eyelets, combined with means for feeding the material while the eyelet is being clenched, said means consisting in a mounting for the clenching instrumentality connected and arranged to move it laterally as the clenching takes place.

3. An eyeleting machine, comprising a telescopically combined punch and set mechanism having means to impart punching and setting movements thereto, an anvil mounted to coöperate therewith, and means for moving said punch and set mechanism laterally while the set is being advanced for clenching.

4. An eyeleting machine, comprising a punch and set telescopically combined, means for imparting punching and setting movements to the punch and set respectively, and means for intermittently moving the punch and set laterally to feed the material and space the eyelets, said means being connected and arranged to operate during that part of the cycle of operation in which the set is moved forward to clench the eyelet.

5. An eyeleting machine, comprising a punch, a race-way adapted to present an eyelet in alinement with said punch at an initial position thereof, means for moving said punch forward to thread an eyelet thereon, then laterally to remove the eyelet from the race-way, and then farther forward to punch a hole in the material and position the eyelet relative thereto, a backing against which said punch is adapted to operate, means for clenching the eyelet so positioned, and means for imparting a further lateral movement to the punch to feed the material and space the eyelets.

6. An eyeleting machine, comprising an eyelet race-way having a stationary delivering end adapted to deliver eyelets yieldingly therefrom, a punch mounted to aline with the foremost eyelet in said race-way in its initial position, means for moving said punch forward to engage the eyelet, then laterally to remove the eyelet, and then farther forward to punch a hole in material and position the eyelet relative thereto, an anvil backing coöperative with said punch, means for clenching the eyelet so positioned, and means for moving said punch and clenching means laterally to feed the material and space the eyelets.

7. An eyeleting machine, comprising a punch and set telescopically combined, means for imparting operative movements thereto, an anvil backing coöperative therewith, and an eyelet race-way having a stationary delivery end, said means for imparting operative movements to the punch being arranged to first move the punch forward to thread an eyelet in said race-way thereon, then move the punch laterally to remove the eyelet, then position the eyelet on the material, and then move the punch again laterally to feed the material and space the eyelets.

8. An eyeleting machine, comprising an operatively combined punch and set, means for imparting operative movements thereto, and an anvil backing having a pliable mounting adapted to permit self adaptation and adjust-

ment of the anvil relative to the punch and set in the operation thereof, and means to support said anvil backing against the operative movements of the punch and set mechanism.

9. An eyeleting machine, comprising a pair of telescopically combined punch and set mechanisms oppositely mounted and facing each other, mechanism for imparting operative movements thereto, and an anvil backing interposed between said punch and set mechanisms having a pliable mounting adapted to permit self adaptation and adjustment relative to the punch and set mechanisms in the operation thereof.

10. An eyeleting machine, comprising a punch and a set coöperatively mounted to operate on a material, mechanism for imparting operative movements thereto, means presenting a backing for the operation of said punch and set having a pliable mounting adapted to permit self-adjustment of said backing relative to the punch and set, and an edge guide for the material mounted adjacent to, but clear of, and having its support relatively remote from said backing means.

11. An eyeleting machine, comprising a punch and a set mounted in coöperative relation for acting on a material, mechanism for imparting operative movements thereto, an anvil backing for said punch and set adjustable in the direction of movement thereof, and an edge guide for the material mounted adjacent said anvil but clear thereof and with its support relatively remote therefrom whereby the anvil may be adjusted without interfering with said guide.

12. An eyeleting machine, comprising a punch and a set coöperatively arranged for acting on a material, mechanism for imparting operative movements thereto, an anvil backing presenting a punch block and a clenching surface coöperative with the punch and set respectively having a pliable mounting adapted to permit self-adjustment of said backing relative to the punch and set, and an antifriction edge guide for the material formed as a roll mounted adjacent to said anvil, but clear thereof and with its support relatively remote therefrom.

13. An eyeleting machine, comprising a pair of telescopical combined punch and set mechanisms oppositely mounted with an interposed anvil backing, means for imparting operative movements to said mechanisms, a yoke frame in which said mechanisms are slidably fitted, and means consisting in a face cam connected to move in synchronism with the operation of the punch and set mechanisms for moving said yoke frame intermittently to impart lateral feeding movements of said punch and set mechanisms.

14. A machine of the kind described, comprising a tool for performing a manufacturing result on a material with means for operating the same, and means for feeding the material consisting in a cam connected to move in timed relation to said tool operating means and an element coöperative therewith for effecting said feed movement, said cam presenting a plurality of operative paths adapted to produce different operating strokes for feeding and having a neutral portion common to all of said paths whereby said feeding element is returned to the same point when actuated by any one of the paths of said cam, and said element engageable therewith being adjustable to engage any one of said operative parts at will.

15. A machine of the kind described, comprising tool mechanism adapted to perform a manufacturing result on a material, means for operating said mechanism, and means for effecting a relative feed between the material and said tool mechanism, said means consisting in a cam connected to move in timed relation with said tool operating mechanism, said cam presenting a plurality of operative paths each adapted to produce a different feeding result and having a neutral portion common to all of said paths whereby said feeding element is returned to the same point when actuated by any one of the paths of said cam, and an element connected to effect said feed movement and adjustable to engage any one of said paths at will.

16. A machine of the kind described, comprising tool mechanism for producing a manufacturing result on a material, means for operating said mechanism, and means for effecting a relative feed between said tool mechanism and the material, said means consisting in a cam connected to move in timed relation with said tool operating mechanism, said cam presenting a series of operating paths adapted to produce different feeding strokes, and a member adjustable to engage any one of said paths at will and connected to effect said feed, said cam being formed to return the parts operated by said element engageable therewith to the same initial position regardless of the operating path engaged thereby.

17. In a fastener setting machine, a telescopic punch and set, and a hammer for operating the same, said hammer having independently adjustable elements acting respectively to operate the punch and set.

18. A hammer for use in a fastener setting machine employing a punch and set, said hammer comprising a lever-arm bifurcated at its extremity to provide opposed, spaced arms, a vertically adjustable punch operating element, and a vertically adjustable set operating element located between said arms.

19. In a fastener setting machine, a telescopic punch element and set, a punch operating hammer, and an adjustable element carried by said hammer and adapted to contact with said punch.

20. In a fastener setting mechanism, a telescopic punch element and set, a set operating hammer, and an adjustable element carried by said hammer and adapted to contact with said set.

21. In a fastener setting machine, a telescopic punch and set, and a hammer for operating the same, said hammer having independently adjustable elements acting respectively, to operate the punch and set, said elements having screw adjusting means and devices for locking the same in adjusted position.

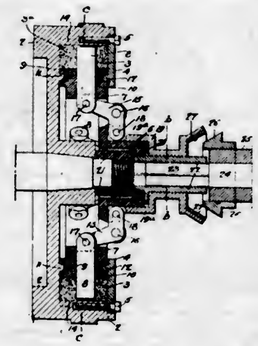
22. A hammer for use in a fastener setting machine employing a punch and set, said hammer comprising a lever arm bifurcated at its extremity to provide opposed, spaced arms, a vertically adjustable punch operating element and a vertically adjustable set operating element located between said arms.

14,932. DUPLEX EYELETER. FRANK L. HARMON, Beverly, Mass., assignor to Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 2, 1920. Serial No. 349,030. Original No. 1,262,583, dated Apr. 9, 1918, Serial No. 836,324, filed May 4, 1914. 22 Claims. (Cl. 218—15.)



21. In a fastener setting machine, a punching device and a setting device telescopically arranged, an operating member for said devices, and means for relatively moving said devices and member laterally for successive operation of said devices by said member.

14,933. CLUTCH. DAVID LAKE, Cleveland, Ohio, assignor to The L. & H. Clutch Co., Norristown, Pa., a Corporation of Pennsylvania. Filed June 30, 1919. Serial No. 307,827. Original No. 1,234,776, dated July 31, 1917, Serial No. 103,912, filed June 15, 1916. 25 Claims. (Cl. 192—18.)



13. The combination in a clutch, of a driving and a driven element; a plastic fluid mass forming a power transmitting element carried by the driving element; and plungers carried by the driven element and arranged to be projected into the plastic fluid mass through which the power is transmitted.

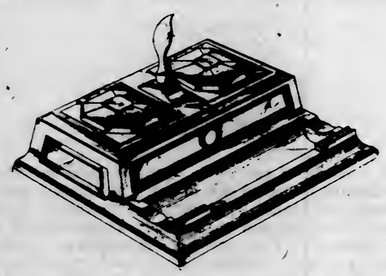
14,934. TRENCH-SANDAL. CHARLES O. ROE, Indianapolis, Ind., assignor to Roe Metal Sandal Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 25, 1919. Serial No. 333,413. Original No. 1,276,964, dated Aug. 27, 1918, Serial No. 197,829, filed Oct. 22, 1917. 16 Claims. (Cl. 36—63.)



1. A sandal of the herein described class comprising a sole-member composed of a plurality of hingedly connected sections containing a plurality of perforations, spikes passing through said perforations, means formed along the edges of said sole-member for securing the marginal edges of a spike-retaining means, a spike-retaining means adapted to be inserted under the preceding means and resting upon the upper ends of the spikes for holding the latter in operative position, and means for locking said spike-retaining means in operative position.

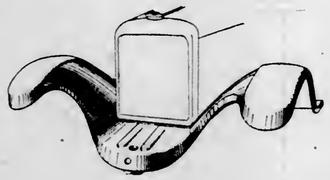
DESIGNS.

56,093. COMBINED CIGAR-LIGHTER AND INK-STAND. LOUIS V. ARONSON, Newark, N. J. Filed Oct. 15, 1919. Serial No. 330,924. Term of patent 7 years.



The ornamental design for a combined cigar lighter and inkstand, as shown.

56,094. AUTOMOBILE SPLASH-BOARD. EDWARD. H. BELDEN, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Feb. 24, 1919. Serial No. 278,991. Term of patent 14 years.



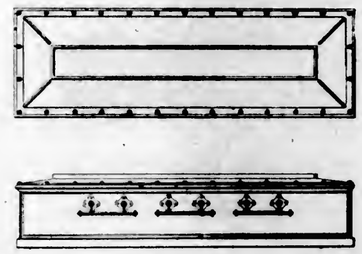
The ornamental design for an automobile splash-guard, as shown.

56,095. CONTAINER. HAZEL BRILL, Brooklyn, N. Y., assignor to Brass Goods M'f'g Co., New York, N. Y., a Corporation of New York. Filed Jan. 6, 1920. Serial No. 349,819. Term of patent 14 years.



The ornamental design for a container, as shown.

56,096. BURIAL-CASKET. JOHN E. CASE, New York, N. Y., assignor to Athens Shipbuilding Corporation, New York, N. Y. Filed Feb. 21, 1920. Serial No. 360,394. Term of patent 7 years.



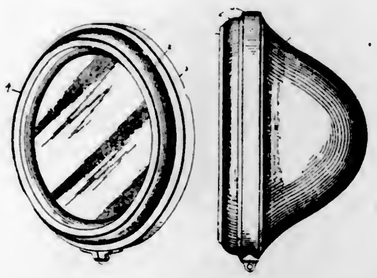
The ornamental design for a burial casket, as shown.

56,097. STAND. WILLIAM F. FAAS, Cleveland, Ohio. Filed Dec. 23, 1919. Serial No. 347,022. Term of patent 7 years.



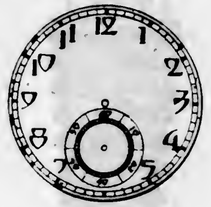
The ornamental design for a stand, as shown.

56,098. LAMP. CHARLES E. GODLEY. Detroit, Mich. Filed Apr. 16, 1920. Serial No. 374,482. Term of patent 14 years.



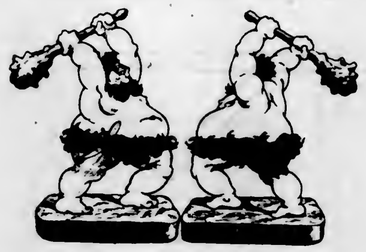
The ornamental design for a lamp, substantially as shown and described.

56,099. WATCH-DIAL. FRANCIS A. GOODREW, Elgin, Ill., assignor to Elgin National Watch Company, Elgin, Ill., a Corporation of Illinois. Filed Mar. 6, 1920. Serial No. 363,838. Term of patent 14 years.



The ornamental design for a watch dial, as shown.

56,100. STATUETTE. JOHN J. KEARNEY, Berwyn, and GEORGE H. WINTER, Chicago, Ill. Filed Jan. 6, 1920. Serial No. 349,817. Term of patent 3½ years.



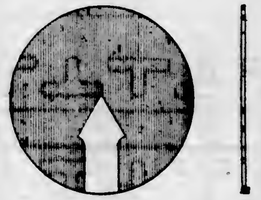
The ornamental design for a statuette, as shown.

56,101. METAL SPONGE-CUP. HOWARD MERKEL, West Springfield, and RAYMOND W. GUY, Longmeadow, Mass. Filed Apr. 12, 1919. Serial No. 289,762. Term of patent 14 years.



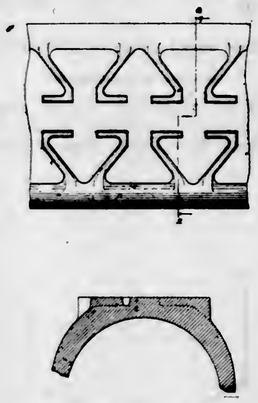
The ornamental design for a metal sponge cup, as shown.

56,102. HIGHWAY-GUIDE DEVICE. WARNER E. McMULLAN and HENRY JAMES HICKEY, Fort Dodge, Iowa. Filed Mar. 20, 1920. Serial No. 367,491. Term of patent 14 years.



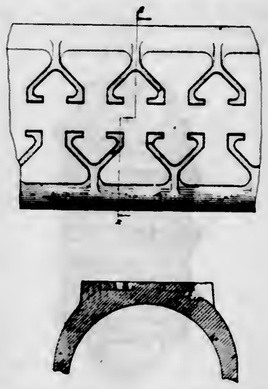
The ornamental design for a highway guide device, as shown.

56,103. TIRE. ANDREW J. PENNINGTON, Tulsa, Okla., assignor to U. S. Compression Inner Tube Company, Tulsa, Okla., a Corporation of Delaware. Filed Mar. 2, 1920. Serial No. 362,783. Term of patent 14 years.



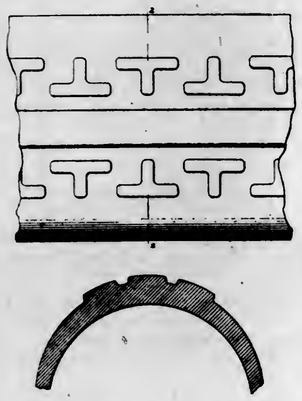
The ornamental design for a tire, as shown.

56,104. TIRE. ANDREW J. PENNINGTON, Tulsa, Okla., assignor to U. S. Compression Inner Tube Company, Tulsa, Okla., a Corporation of Delaware. Filed Mar. 2, 1920. Serial No. 362,784. Term of patent 14 years.



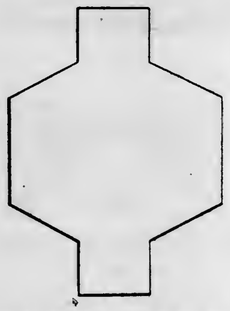
The ornamental design for a tire, as shown.

56,105. TIRE. ANDREW J. PENNINGTON, Tulsa, Okla., assignor to U. S. Compression Inner Tube Company, Tulsa, Okla., a Corporation of Delaware. Filed Mar. 2, 1920. Serial No. 362,785. Term of patent 14 years.



The ornamental design for a tire, as shown.

56,106. ROOFING SHINGLE. CALVIN RUSSELL, Penn Yan, N. Y., assignor to Carrie H. Russell. Filed Sept. 19, 1919. Serial No. 325,024. Term of patent 14 years.



The ornamental design for a roofing shingle, as shown.

56,107. BOTTLE-STOPPER. FERDINAND RUSTANT, San Francisco, Calif. Filed Feb. 10, 1919. Serial No. 276,232. Term of patent 14 years.



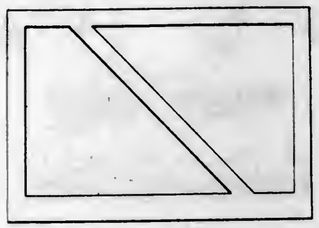
The ornamental design for a bottle stopper, as shown.

56,108. BOTTLE-STOPPER. FERDINAND RUSTANT, San Francisco, Calif. Filed Feb. 11, 1919. Serial No. 276,443. Term of patent 14 years.



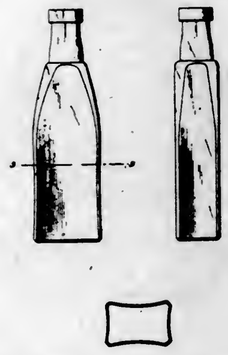
The ornamental design for a bottle stopper, as shown.

56,109. AUTOMOBILE SIDE-CURTAIN. RALPH K. THOMSON, Sioux Falls, S. D. Filed Nov. 29, 1919. Serial No. 341,546. Term of patent 14 years.



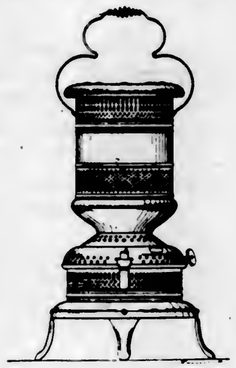
The ornamental design for an automobile side curtain, as shown.

56,110. BOTTLE. HUBERT RAYMOND WELLER, Brooklyn, N. Y., assignor to Garrett & Company, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 12, 1920. Serial No. 365,330. Term of patent 14 years.



The ornamental design for a bottle, as shown.

56,111. OIL-STOVE. FRED E. WHITE, Gardner, Mass., assignor to Central Oil & Gas Stove Company, Gardner, Mass., a Corporation of Massachusetts. Filed Apr. 21, 1919. Serial No. 291,751. Term of patent 14 years.



The ornamental design for an oil stove, as shown.

56,112. POCKET CIGAR-HOLDER. FRANK WOJCIECHOWSKI, Staunton, Ill. Filed Mar. 10, 1920. Serial No. 364,751. Term of patent 7 years.



The ornamental design for a pocket cigar holder, as shown.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 104,895. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN BURTONIZING COMPANY, New York, N. Y. Filed July 7, 1917.

POMAX

Particular description of goods.—Material Not Itself of a Malt Nature Containing Reaction Products of Certain Sugars and Amino Bodies Used as a Substitute for Malt in Making Beverages.

Claims use since December, 1915.

Ser. No. 108,353. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMANDER MILL CO., Minneapolis, Minn. Filed Jan. 8, 1918.

SODAK

Particular description of goods.—Wheat-Flour.

Claims use since Mar. 14, 1912.

Ser. No. 110,347. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES JOHNSTON, Spokane, Wash. Filed Apr. 20, 1918.



Particular description of goods.—Coffee.

Claims use since January, 1915.

Ser. No. 110,636. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) VOORHEES RUBBER MFG. CO., Jersey City, N. J. Filed May 3, 1918.



No claim being made to the representation of a section of hose.

Particular description of goods.—Hose Having an Exterior Made Up of Rubber or a Composition of Rubber.

Claims use since October, 1914.

Ser. No. 111,082. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SEATTLE PAINT COMPANY, Seattle, Wash. Filed May 20, 1918.

Ironite

Particular description of goods.—Ready-Mixed Paints.

Claims use since March, 1905.

Ser. No. 111,199. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY, INC., New York, N. Y. Filed May 25, 1918.



The lining in the drawing represents shading only. The exclusive use of the words "Lovelee," "Trade Mark,"

"Hair Net" and the representation of a hair-net are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Hair-Nets.

Claims use since May 15, 1918.

Ser. No. 111,431. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) F. I. A. T. FABBRICA ITALIANA AUTOMOBILI TORINO, Turin, Italy. Filed June 8, 1918.

FIAT

Particular description of goods.—Small-Arms, Rifles, Trench-Guns, Machine-Guns, Ordnance-Guns, Cartridges, Shells, Bombs, Grenades, Blasting-Powder, Fulminates, Gunpowder, Explosive Nitro Compounds, Pyrotechnic Compounds, Tripods, and Stands for Firearms, Fore Sights, Rear Sights, Wind-Gage Sights, and Loading-Clips for Small-Arms.

Claims use since Jan. 1, 1917.

Ser. No. 111,686. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ATLANTA BARBER'S SUPPLY CO., Atlanta, Ga. Filed June 20, 1918.

LEMO

Particular description of goods.—Face and Massage Cream and Shampoo and a Preparation for Cleansing the Hair and Removing Dandruff.

Claims use since Mar. 1, 1918.

Ser. No. 111,687. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ATLANTA BARBER'S SUPPLY CO., Atlanta, Ga. Filed June 20, 1918.

DIXIE DEW

Particular description of goods.—Toilet Water.

The said trade-mark has been continuously used in its business since July, 1916, and in the business of its predecessors, Matthews & Lively Co., since January, 1913.

Ser. No. 113,270. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED SALES SYNDICATE LTD., San Francisco, Calif. Filed Sept. 19, 1918.

DORIOT

Particular description of goods.—Face-Powders, Toilet Powders, Sachet-Powders, Talcum Powders, Foot-Powders, Powders for the Relief of Perspiration, Toilet Water, Skin-Lotion, Shaving-Lotion, Bay-Rum, Florida Water, Colognes, Perfumes, Pomades, Pomade-Sticks, Grease Paints, Hair-Wax, Eyebrow-Pencils, Nail-Enamels, Nail-Polishes, Nail-Acids, Nail-Powders, Nail-Cream, Hair-Dressings, Hair-Pomades, Hair-Dyes, Hair-Bleaches, Shampoo Powders and Liquids, Brilliantine, Hair-Curling Fluid, Bandoline, Perfumed Toilet Extracts, Face-Creams, Toilet Creams, Hand-Creams, Massage-Creams, Shaving-Creams for Use After Shaving, Wrinkle-Creams, Bleaching-Creams, Freckle-Creams, Muscle-Oils, Massage-Oils, Vegetable Oils for Toilet Purposes, Floral Perfume-Oils, Synthetic Perfume-Oils, Tooth Powders and Pastes, Tooth-Washes, Mouth-Washes, Antiseptic Toilet Washes and Liquids.

Claims use since Oct. 17, 1917.

Ser. No. 113,461. (CLASS 37. PAPER AND STATIONERY.) HAROLD STEWART BALSON, Toronto, Ontario, Canada. Filed Sept. 26, 1918.



Particular description of goods.—Blank or Partly-Printed Tags.

Claims use since Mar. 24, 1918.

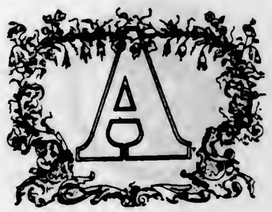
Ser. No. 114,462. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN E. DIAMENT COMPANY, Cedarville, N. J. Filed Dec. 3, 1918.



Particular description of goods.—Canned Pears and Canned Tomatoes.

Claims use since October, 1901.

Ser. No. 115,800. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BOOTT MILLS, Lowell, Mass. Filed Feb. 12, 1919.



Particular description of goods.—Blue Drillings in the Piece.

Claims use since 1873.

Ser. No. 116,578. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KULLMAN, SALZ & CO., San Francisco, Calif. Filed Mar. 14, 1919.



No claim being made to the words "Pure Oak Tan, Brand" apart from the mark shown in the drawings.

Particular description of goods.—Hides and Leather.

Claims use since Sept. 22, 1906.

Ser. No. 116,951. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. H. BROWN SON & CO., New York, N. Y. Filed Mar. 27, 1919.

Grandmother Chintz

The exclusive use of the word "Chintz" not being claimed apart from the mark as shown in the drawing.

Particular description of goods.—Chintz.

Claims use since about Jan. 15, 1919.

Ser. No. 117,975. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. F. HATHAWAY & SONS, North Cambridge, Mass. Filed Apr. 29, 1919.



Applicant disclaims the descriptive word "Bread" apart from the mark as shown in the drawing. No claim is made to the words "Our Toast" except in association with the subject-matter shown in the drawing. The pictures of children shown in the drawing are fanciful.

Particular description of goods.—Bread.

Claims use since Mar. 31, 1919.

Ser. No. 118,691. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEAD JOHNSON & CO., Evansville, Ind. Filed May 19, 1919.



Particular description of goods.—A Manufactured Product Composed of Dextrin, Maltose, Sodium Chlorid, and Moisture.

Claims use since June 1, 1915.

Ser. No. 118,692. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEAD JOHNSON & CO., Evansville, Ind. Filed May 19, 1919.



Particular description of goods.—A Manufactured Product Composed of a Specific Amount of Maltose, Dextrin, and Moisture.

Claims use since June 1, 1915.

Ser. No. 118,693. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEAD JOHNSON & CO., Evansville, Ind. Filed May 19, 1919.



Particular description of goods.—Infants' Food.

Claims use since June 3, 1918.

Ser. No. 118,828. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONTINENTAL SERUM LABORATORIES CO., Muscatine, Iowa. Filed May 23, 1919.

VETSOL

Particular description of goods.—Worm Medicine for Swine.

Claims use since about Jan. 1, 1919.

Ser. No. 118,922. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LEHN & FINK, INC., New York, N. Y. Filed May 26, 1919.

Lysol

Applicant is the owner of registered trade-marks, Nos. 18717, 27456, 53937, and 53938.

Particular description of goods.—Shaving Cream and Soap.

Claims use since about March, 1917.

Ser. No. 119,699. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED H. WHITE, Charlotte, N. C. Filed June 16, 1919.



The pictorial representation of the goods is disclaimed apart from the other features of the mark.

Particular description of goods.—Cocoa Pudding.

Claims use for a period of twelve months.

Ser. No. 119,712. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARABOU TRADING COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1919.



TRADE MARK

The lining on the drawing is for shading purposes only. Disclaimer is hereby made of the use of the words "Trade Mark" apart from the other features of the mark shown on the drawing.

Particular description of goods.—Confectionery—Namely, Candies and Chocolates.

Claims use since about January, 1914.

Ser. No. 119,753. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed June 18, 1919.

BEAVERTEX

Particular description of goods.—Velvets and Plushes in the Piece.

Claims use since about Oct. 1, 1918.

Ser. No. 120,348. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOE LOWE CO. INC., New York, N. Y. Filed July 8, 1919.



The letters of the words are colored yellow and are on a blue background surrounded by a yellow border. No claim is made to the words "Taste Well" apart from the trade-mark shown in the drawing.

Particular description of goods.—Bread, Cake, Pies, and Ice-Cream.

Claims use since Jan. 1, 1919.

Ser. No. 120,612. (CLASS 37. PAPER AND STATIONERY.) KIMBERLY-CLARK COMPANY, Neenah, Wis. Filed July 16, 1919.

ROTOPLATE

Particular description of goods.—Book-Paper.

Claims use since Jan. 1, 1915.

Ser. No. 120,837. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LINCOLN TYPEWRITER CO., New York, N. Y. Filed July 22, 1919.



No claim being made to the exclusive use of the words "Guarantee Satisfaction, All Makes Rebuilt."

Particular description of goods.—Typewriters.

Claims use since June 15, 1919.

Ser. No. 121,655. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OTTO W. BONN, New York, N. Y. Filed Aug. 14, 1919.

LOALCO

Particular description of goods.—A Non-Fermentable Body Sugar and a Syrup Thereof.

Claims use since about Apr. 17, 1919.

Ser. No. 122,029. (CLASS 39. CLOTHING.) VARSITY UNDERWEAR COMPANY, Baltimore, Md. Filed Aug. 26, 1919.



Particular description of goods.—Pajamas, Night-Shirts, Night-Robes, and Sleeping-Garments of That Type Commercially and Commonly Known as Sleepers, and Knitted and Textile Underwear Comprising Shirts, Drawers, and Union-Suits for Men, Women, and Children, Combination-Suits, and Running-Pants.

Claims use since on or about May, 1907.

Ser. No. 122,220. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MCRAE WHOLESALE HARDWARE COMPANY, Helena, Ark. Filed Sept. 2, 1919.



No claim being made for the exclusive right to the words "Made Right" apart from the trade-mark shown in the drawing.

Particular description of goods.—Inner Tubes for Pneumatic Tires.

Claims use since June 22, 1919.

Ser. No. 122,616. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SUN-LIGHT ARC CORPORATION, New York, N. Y. Filed Sept. 12, 1919.



No claim is made to "100,000 Candle Power."

Particular description of goods.—Arc-Lights to be Used in Motion-Picture Work and to be Used in the Ordinary Way of Illumination and to Illuminate Objects to be Photographed.

Claims use since Dec. 15, 1917.

Ser. No. 123,740. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JENCKES SPINNING COMPANY, Pawtucket, R. I. Filed Oct. 13, 1919.



Particular description of goods.—Textile Fabrics in the Piece for Use in the Manufacture of Pneumatic and Solid Tires.

Claims use since Feb. 1, 1883.

Ser. No. 123,833. (CLASS 39. CLOTHING.) AMSTERDAM, BORGOS & ADAMS, New York, N. Y. Filed Oct. 16, 1919.

Ace High

Particular description of goods.—Ladies' Hats and Hat-Frames for Ladies' Hats.

Claims use since the 8th day of April, 1919.

Ser. No. 124,697. (CLASS 39. CLOTHING.) SLONIM BROTHERS, Duluth, Minn. Filed Nov. 8, 1919.



The portrait shown in the drawing is fanciful. No claim is made to the words "Duluth" or "Standard" apart from the mark shown in the drawing.

Particular description of goods.—Men's, Women's, and Children's Knitted Hose; Knitted or Textile One, Two, and Three Piece Underwear; Knitted Sweaters, Women's and Children's Dresses and Aprons, Men's Caps, Canvas and Leather Gloves and Mittens, Necktles, Shirt-Collars, Dress-Shirts, Negligée Shirts, Work-Shirts, Undershirts, Leather Vests and Coats, and Overalls.

Claims use since Nov. 4, 1919.

Ser. No. 124,942. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LILLIAN BROOKS MORRIS, Yonkers, N. Y. Filed Nov. 15, 1919.

RAINBOW

Particular description of goods.—Cakes and Candies.

Claims use since May 15, 1919.

Ser. No. 124,946. (CLASS 39. CLOTHING.) PENN GARMENT COMPANY INC., Williamsport, Pa. Filed Nov. 15, 1919.

RIGHT-O-WAY

Particular description of goods.—Work-Shirts, Dress-Shirts, and Shirt-Waists for Men, Women, and Children.

Claims use since Nov. 10, 1919.

Ser. No. 125,169. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAKE-RITE OVEN MANUFACTURING COMPANY, Reno, Nev., and San Francisco, Calif. Filed Nov. 22, 1919.

BUTTER KREAM KRACKNELLS

Consisting of the words "Butter Kream Kracknells," no claim being made to the exclusive use of the words "Butter Kream" apart from the mark as shown in the drawing.

Particular description of goods.—Cookies, Cakes, Pastry, Bread, Fruits, Nuts, and Raisins.

Claims use since Nov. 1, 1919.

Ser. No. 125,758. (CLASS 37. PAPER AND STATIONERY.) OSBORNE PAPER COMPANY, Marion, Ind. Filed Dec. 9, 1919.

SoSmooth



No claim being made to the words "So Smooth" apart from the mark shown.

Particular description of goods.—Writing and Printing Papers and Writing-Tablets.

Claims use since September, 1917.

Ser. No. 126,416. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTCAL PREPARATIONS.) LABORATORIO CHIMICO FARMAC. V. BALDACCI, Pisa, Italy. Filed Dec. 24, 1919.

Katarsolfina

Particular description of goods.—A Pharmaceutical Preparation for the Treatment of the Nervous System and of the Nutrition.

Claims use since Apr. 30, 1919.

Ser. No. 126,417. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTCAL PREPARATIONS.) LABORATORIO CHIMICO FARMAC V. BALDACCI, Pisa, Italy. Filed Dec. 24, 1919.

CREOSARSOLO

Particular description of goods.—A Pharmaceutical Preparation for the Treatment of the Pulmonary Organs.

Claims use since Apr. 30, 1919.

Ser. No. 127,071. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELSIE WIPPEL, Cincinnati, Ohio. Filed Jan. 12, 1920.

Alldox

Particular description of goods.—Body-Tissue Tonic, Headache-Powders, Laxative Tablets, Cold and Grippe Tablets, Digestive Tablets, Antiseptic Healing-Oil, Liniment for Local Application in Rheumatism, Soreness of Muscles, Neuralgia, Sciatica, Stiffness of Joints, Lumbago, Backache, Sprains, Bruises, Pneumonia, and Congestion of the Lungs and Throat, Eye-Water, and Cough and Croup Mixture.

Claims use since Jan. 2, 1920.

Ser. No. 127,127. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Jan. 14, 1920.

IDEAL

Particular description of goods.—Cocoa-Butter for Medicinal Use.

Claims use since the year 1900.

Ser. No. 127,168. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BLOOM TEXTILE CO. INC., New York, N. Y. Filed Jan. 15, 1920.

BLOOMTEX

Particular description of goods.—Piece Goods of Silk, Silk and Cotton Mixture, Cotton, Cotton and Wool Mixture, Wool, and Silk and Wool Mixture.

Claims use since Oct. 1, 1919.

Ser. No. 127,528. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Jan. 24, 1920.



Particular description of goods.—Lead-Pencils, Copying-Pencils, and Mechanical Pencils.

Claims use since the month of December, 1905.

Ser. No. 127,683. (CLASS 39. CLOTHING.) HELEN FREELAND, Los Angeles, Calif. Filed Jan. 28, 1920.

AlterEze

Particular description of goods.—Dress Foundations and Dress-Linings Consisting of Separate Skirt and Waist Lining or Foundation on Which Gowns and Dresses are Designed and Built.

Claims use since Mar. 15, 1915.

Ser. No. 127,743. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THURM, BROWNE & COHEN, INC., New York, N. Y. Filed Jan. 29, 1920.

THURBCO

Lined for shading and not limited as to color.

Particular description of goods.—Veilings, Nettings, and Chiffons in the Piece.

Claims use since Oct. 1, 1919.

Ser. No. 127,782. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SIMONS MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 30, 1920.



Particular description of goods.—Paint Enamel For Painting or Enameling Metal or the Like.

Claims use since Sept. 23, 1918.

Ser. No. 127,795. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CAFENARINE CHEMICAL CORPORATION, Detroit, Mich. Filed Jan. 31, 1920.

CAFENARINE

Particular description of goods.—A Pharmaceutical Preparation for Influenza, Colds, Headaches, Neuralgia, La Grippe.

Claims use since Aug. 1, 1918.

Ser. No. 127,875. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) Z. A. TOULA CORPORATION, New York, N. Y. Filed Feb. 2, 1920.

Vanity Wristlet

The word "Wristlet" is disclaimed when used apart from mark shown in the drawing.

Particular description of goods.—Receptacles to be Carried on the Wrist and Made of Precious Metal or Plated With Precious Metal and Adapted to Contain Powder, Rouge, Small Coins, or Other Articles.

Claims use since the 15th day of December, 1919.

Ser. No. 127,968. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HENRY L. KAUFMANN, Louisville, Ky. Filed Feb. 4, 1920.

GASMASK

Particular description of goods.—Rubber Sheeting in the Piece or Roll.

Claims use since Oct. 3, 1919.

Ser. No. 127,995. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BRAND & OPPENHEIMER, New York, N. Y. Filed Feb. 5, 1920.



Particular description of goods.—Linings in the Piece, Consisting of Various Styles of Dyed Sheetings, Twills, Drills, Sliesias, Sateens, Mercerized Serges in Both Plain Styles and Printed and in Both Coarse and Mercerized Finishes.

Claims use since January, 1913.

Ser. No. 128,001. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDWIN P. GLEASON'S SON, INC., New York, N. Y. Filed Feb. 5, 1920.



No claim is made to the exclusive use of the words "Ribbon Stripe" apart from the mark as shown.

Particular description of goods.—Cotton Piece Goods.

Claims use since July 7, 1916.

Ser. No. 128,019. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PENTON PUBLISHING COMPANY, Cleveland, Ohio. Filed Feb. 5, 1920.

THE FOUNDRY

Particular description of goods.—A Semimonthly Technical Periodical.

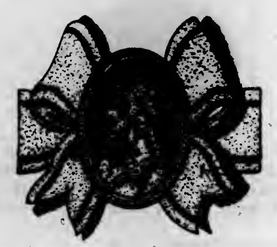
Claims use since Oct. 1, 1913.

Ser. No. 128,096. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEX. KERR BROS. & Co., Philadelphia, Pa. Filed Feb. 7, 1920.

PURITAN

Particular description of goods.—Salt.
Claims use since Nov. 1, 1919.

Ser. No. 128,097. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEX. KERR BROS. & Co., Philadelphia, Pa. Filed Feb. 7, 1920.



Particular description of goods.—Salt.
Claims use since Nov. 1, 1919.

Ser. No. 128,228. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & Co.

Particular description of goods.—Tobacco-Pipes, Cigar and Cigarette Holders Made of Amber, Cigar and Cigarette Cases Made of Leather or Silk, and Humidors and Ash-Trays Made of Glass, Wood, or Base Metals.
Claims use since 1868.

Ser. No. 128,229. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Tobacco-Pipes, Cigar and Cigarette Holders Made of Amber, Cigar and Cigarette Cases Made of Leather or Silk, and Humidors and Ash-Trays Made of Glass, Wood or Base Metals.
Claims use since 1868.

Ser. No. 128,243. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & Co.

Particular description of goods.—Chinaware, Bric-à-Brac, Earthenware, and Porcelain.
Claims use since 1868.

Ser. No. 128,331. (CLASS 15. OILS AND GREASES.) TRANSCONTINENTAL OIL CO., Pittsburgh, Pa. Filed Feb. 12, 1920.



No claim being made to the exclusive use of the word "Products" or the abbreviations and words "Reg. U. S. Pat. Off." and "Best in the Long Run."

Particular description of goods.—Carbon or Water-White Burning-Oils; Refined and Semirefined Petroleum, Kerosene, Gasolene, Benzin, and Naphtha, Lubricating-Greases, and Lubricating and Illuminating Oils.
Claims use since Nov. 10, 1915.

Ser. No. 128,349. (CLASS 39. CLOTHING.) JUVENILE SHOE CORPORATION OF AMERICA, St. Louis, Mo. Filed Feb. 13, 1920.



Consisting of the words "Juvenile Shoe System" displayed upon the representation of a wax seal.

Particular description of goods.—Boots, Shoes, and Sandals of Kid, Leather, and Canvas.
Claims use since about Jan. 1, 1919.

Ser. No. 128,513. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERCHANTS' COFFEE CO. OF N. O. LTD., New Orleans, La. Filed Feb. 17, 1920.

ALAMEDA

Particular description of goods.—Coffee.
Claims use since Feb. 9, 1906.

Ser. No. 128,771. (CLASS 39. CLOTHING.) FARMERS UNION STATE EXCHANGE, Omaha, Nebr. Filed Feb. 24, 1920.



Particular description of goods.—Work-Shirts.
Claims use since Nov. 1, 1917.

Ser. No. 128,882. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR CLAASSEN, Jr., Philadelphia, Pa. Filed Feb. 25, 1920.

KERESOL

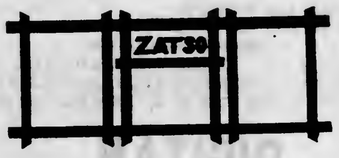
Particular description of goods.—Insecticide.
Claims use since Dec. 5, 1919.

Ser. No. 129,018. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Feb. 28, 1920.

CELETINE

Particular description of goods.—Food-Colors.
Claims use since Feb. 20, 1920.

Ser. No. 129,034. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZATSO CHEMICAL COMPANY, Ashland, Wis. Filed Feb. 28, 1920.



Particular description of goods.—A Preparation for the Treatment of Corns.
Claims use since May, 1918.

Ser. No. 129,039. (CLASS 39. CLOTHING.) BORETZ MERCANTILE COMPANY, El Paso, Tex. Filed Mar. 1, 1920.

TEXOL

Particular description of goods.—Hosiery; Underwear, Knitted, Netted, and Textile Fabric in One and Two Piece Garments, for Men, Women, and Children; Shirts, Dress, Negligée and Work Shirts; Overalls; Hats for Men, Women, and Children; Caps for Men, Women, and Children; Shoes, Leather, Rubber, Fabric, and Combination; Trousers, Collars, and Neckties.
Claims use since Jan. 15, 1919.

Ser. No. 129,100. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SWINE BREEDER'S SERVICE, Chicago, Ill. Filed Mar. 1, 1920.



Particular description of goods.—A Fumigating Liquid.
Claims use since October, 1919.

Ser. No. 129,117. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZELL-STRAUB LABORATORIES, Chicago, Ill. Filed Mar. 1, 1920.

FLAVISOL

Particular description of goods.—An Antiseptic and Bactericidal Agent for Use in Both Human and Veterinary Fields.
Claims use since Feb. 6, 1920.

Ser. No. 129,289. (CLASS 43. THREAD AND YARN.) SOLWAY DYEING & TEXTILE COMPANY, Pawtucket, R. I. Filed Mar. 5, 1920.

SOLWAY

Particular description of goods.—Dyed Yarns.
Claims use since about 1903.

Ser. No. 129,306. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLEY A. CROTTY, Sacramento, Calif. Filed Mar. 6, 1920.

DARK-NA-KOLOR

Particular description of goods.—Hair-Color Restorer.
Claims use since Dec. 1, 1919.

Ser. No. 129,319. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STACY B. GANOW, New York, N. Y. Filed Mar. 6, 1920.

OXY-CRYSTINE

Particular description of goods.—Neutralizing Solvent and Eliminant of Retained Amino Acids and Uric Acid in the Blood.
Claims use since Feb. 7, 1920.

Ser. No. 129,337. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OCEAN PAINT WORKS, INC., Brooklyn, N. Y. Filed Mar. 6, 1920.



Particular description of goods.—Dry, Paste, and Ready-Mixed Paints, Marine Paints, Inside and Outside White and Black Paint.
Claims use since Dec. 10, 1919.

Ser. No. 129,338. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OCEAN PAINT WORKS, INC., Brooklyn, N. Y. Filed Mar. 6, 1920.

MERMAID PAINTS

The word "Paints" is disclaimed except in the particular relation used and shown.
Particular description of goods.—Dry, Paste, and Ready-Mixed Paints, Marine Paints, Inside and Outside White and Black Paint.
Claims use since Dec. 10, 1919.

Ser. No. 129,425. (CLASS 39. CLOTHING.) SOROSIS GARMENT COMPANY, Ionia, Mich. Filed Mar. 8, 1920.

KIDDIEALLS

Particular description of goods.—Children's and Boys' Play-Suits.
Claims use since May, 1919.

Ser. No. 129,442. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) JACOB BLEI, New York, N. Y. Filed Mar. 9, 1920.

SUPERBILT

Particular description of goods.—Trunks.
Claims use since about Mar. 1, 1920.

Ser. No. 129,554. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE K-W MEDICINE CO., Smiths Grove, Ky. Filed Mar. 11, 1920.

DR. WADDELL'S



The portrait being that of Dr. G. W. Waddell, deceased.
Particular description of goods.—A Remedy for Piles.
Claims use since the year 1890.

Ser. No. 129,591. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FERRITONE CHEMICAL COMPANY, Council Bluffs, Iowa. Filed Mar. 12, 1920.



Particular description of goods.—Laxative Pills.
Claims use since Jan. 5, 1920.

Ser. No. 129,594. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GUTHRIE & COMPANY LIMITED, Singapore, Straits Settlements, and London, England. Filed Mar. 12, 1920.



Particular description of goods.—Dry, Paste, and Ready-Mixed Paints and Varnishes.
Claims use since Jan. 30, 1919.

Ser. No. 129,599. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERCK & CO., New York, N. Y. Filed Mar. 12, 1920.

DIGITAN

Particular description of goods.—An Extract of Digitalis in Powder, Solution, and Tablets.
Claims use since Dec. 11, 1918.

Ser. No. 129,602. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIE PETERSON, Newark, N. J. Filed Mar. 12, 1920.

(R. F. P. of A. C. D.)

Particular description of goods.—A Medicine Used in the Treatment of Blood.
Claims use since Jan. 15, 1914.

Ser. No. 129,623. (CLASS 17. TOBACCO PRODUCTS.) CARRERAS LIMITED, London, England. Filed Mar. 13, 1920.



The picture and name and the manner of displaying said name being fanciful.
Particular description of goods.—Smoking and Chewing Tobacco, Cigars, and Cigarettes.
Claims use since Nov. 4, 1919.

Ser. No. 129,624. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CRAMER & CASPER, Enid, Okla. Filed Mar. 13, 1920.

Enidoma

Particular description of goods.—A Preparation for the Treatment of Kidney, Liver, and Stomach Troubles.
Claims use since Dec. 15, 1919.

Ser. No. 129,686. (CLASS 2. RECEPTACLES.) THE TROY CARRIAGE SUN SHADE COMPANY, Troy, Ohio. Filed Mar. 13, 1920.

Envobag

Particular description of goods.—Mailing-Packages for Containing Merchandise to be Sent Through the Mail and for Containing Correspondence in an Envelope Forming a Part of the Mailing-Package.
Claims use since Dec. 4, 1919.

Ser. No. 129,692. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. D. BUCHANAN CO., Greenville, Ohio. Filed Mar. 15, 1920.

ORLANDO

Particular description of goods.—Candy.
Claims use since Feb. 21, 1919.

Ser. No. 129,697. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CALIFORNIA WINE ASSOCIATION, San Francisco, Calif. Filed Mar. 15, 1920.

WAHTOKE

Particular description of goods.—Flowers of Sulfur.
Claims use since Jan. 1, 1910.

Ser. No. 129,715. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HACHMEISTER-LIND CHEMICAL COMPANY, Pittsburgh, Pa. Filed Mar. 15, 1920.

HALICO

Particular description of goods.—Oil Soap, Auto-Soap, Bar-Soap, Chip-Soap, Scouring-Powder, Emery Cake, White Buffing-Finish, Metal-Polishing Rouges, Glass-Polishing Rouges, Optical Polishing-Rouges, Metal-Cleaner, Dry-Cleaning Soaps, Liquid-Soap, Shampoo-Soap, Liquid-Soap Base, Spotting Fluid, Tripoli Composition.
Claims use since Mar. 17, 1913.

Ser. No. 129,738. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALBERTINE OETERS, Philadelphia, Pa. Filed Mar. 15, 1920. Under ten-year proviso.

Zementine

Particular description of goods.—Water-Paint.
Claims use since about Jan. 1, 1895.

Ser. No. 129,741. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa. Filed Mar. 15, 1920.

R

Particular description of goods.—Sodium Silicate.
Claims use since prior to or about Feb. 27, 1920.

Ser. No. 120,742. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa. Filed Mar. 15, 1920.

X

Particular description of goods.—Sodium Silicate.
Claims use since prior to, on, or about Feb. 27, 1920.

Ser. No. 130,010. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JENNIE ABRAMSON, Chippewa Falls, Wis. Filed Mar. 22, 1920.

T. W. R.

Particular description of goods.—A Salve for Skin Eruptions, Such as Eczema, Poison-Ivy, Ringworm, Itch, &c.
Claims use since Mar. 1, 1919.

Ser. No. 130,028. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUDOLF FRITSCHE, New York, N. Y. Filed Mar. 22, 1920.

Iodanol

Consisting of the word "Iodanol."
Particular description of goods.—A Photographic Developing Compound.
Claims use since Mar. 1, 1920.

Ser. No. 130,139. (CLASS 37. PAPER AND STATIONERY.) HECO ENVELOPE COMPANY, Chicago, Ill. Filed Mar. 24, 1920.

HECOLOOK

Particular description of goods.—Mailing-Envelops.
Claims use since January, 1919.

Ser. No. 130,191. (CLASS 17. TOBACCO PRODUCTS.) ARDATH TOBACCO COMPANY, LIMITED, London, England. Filed Mar. 26, 1920.

SPLENDO

Particular description of goods.—Cigarettes.
Claims use since Dec. 19, 1904.

Ser. No. 130,193. (CLASS 17. TOBACCO PRODUCTS.) ARDATH TOBACCO COMPANY, LIMITED, London, England. Filed Mar. 26, 1920.

999

Particular description of goods.—Cigarettes.
Claims use since Feb. 18, 1911.

Ser. No. 130,194. (CLASS 17. TOBACCO PRODUCTS.) ARDATH TOBACCO COMPANY, LIMITED, London, England. Filed Mar. 26, 1920.

555

Particular description of goods.—Cigarettes.
Claims use since Feb. 18, 1907.

Ser. No. 130,258. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN BURTONIZING COMPANY AND WALLERSTEIN LABORATORIES, New York, N. Y. Filed Mar. 27, 1920.

WALCO

Particular description of goods.—Cereal Extracts Used as a Substitute for Malt in Making Beverages.
Claims use since Nov. 21, 1919.

Ser. No. 130,376. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,378. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,379. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE AND CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,380. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,381. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,382. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,383. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,384. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,385. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,386. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,387. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



Particular description of goods.—Dyestuffs.
Claims use since Mar. 10, 1920.

Ser. No. 130,497. (CLASS 39. CLOTHING.) TEDMOR WAIST COMPANY, New York, N. Y. Filed Apr. 1, 1920.

TEDMOR

Particular description of goods.—Outer Waists.
Claims use since Feb. 28, 1920.

Ser. No. 130,792. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed Apr. 8, 1920.

"ECLATANTE"

Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and China-Grass.
Claims use since Sept. 9, 1910.

Ser. No. 130,825. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ALBERT C. FISCHER, Chicago, Ill. Filed Apr. 8, 1920.

SERVICISED
LOOK FOR IT ON ALL PURCHASES

No claim is made for the words "Look for It on All Purchases."
Particular description of goods.—Hairpins, Shoe, Middy, and Corset Lacings, Snap-Fasteners, Hooks and Eyes, Pearl Buttons, Cloth Buttons.
Claims use since Jan. 15, 1920.

Ser. No. 130,936. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STEPHEN F. WHITMAN & SON, Philadelphia, Pa. Filed Apr. 9, 1920.

LUNCHEND

Particular description of goods.—Candy.
Claims use since December, 1919.

Ser. No. 130,939. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. E. AULABAUGH, Brosius, W. Va. Filed Apr. 10, 1920.

"TAKME"

Particular description of goods.—Canned Vegetables and Canned Fruit Butter.
Claims use since Mar. 20, 1920.

Ser. No. 130,966. (CLASS 39. CLOTHING.) JOSEPH LOEB COMPANY, Cincinnati, Ohio. Filed Apr. 10, 1920.

Josette

Particular description of goods.—Women's, Misses', and Children's Hats.
Claims use since Mar. 1, 1920.

Ser. No. 130,981. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RAFAEL DEL CASTILLO & Co., New York, N. Y. Filed Apr. 10, 1920.



No claim is made to the printed matter shown on the representation of a signboard embodied in the trade-mark apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 1, 1920.

Ser. No. 131,048. (CLASS 32. FURNITURE AND UPHOLSTERY.) SIMMONS COMPANY, Kenosha, Wis. Filed Apr. 12, 1920.



Particular description of goods.—Metal Bedsteads, Bed-Springs, Cribs, Cots, Bunks, Couches, Costumers, Folding Chairs, Mattresses, and Parts Thereof.
Claims use since on or about July 1, 1901.

Ser. No. 131,071. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HANOVIA CHEMICAL AND MANUFACTURING COMPANY, Newark, N. J. Filed Apr. 13, 1920.



Particular description of goods.—A Therapeutic Ultra-violet-Ray Air-Cooled Quartz Lamp.
Claims use since 1912.

Ser. No. 131,297. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALASKA-CALIFORNIA FISH & PKG. Co., Monterey, Calif. Filed Apr. 19, 1920.

ALACAL

Particular description of goods.—Cured Fish, Salted Fish, Smoked Fish, Sardine Paste, Canned Fish, and Canned Berries.
Claims use since Mar. 1, 1920.

Ser. No. 131,326. (CLASS 17. TOBACCO PRODUCTS.) HAVANA COMMERCIAL COMPANY, New York, N. Y. Filed Apr. 19, 1920.



Particular description of goods.—Cigars.
Claims use since Feb. 28, 1919.

Ser. No. 131,406. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STRAUSS BROTHERS, Baltimore, Md. Filed Apr. 20, 1920.

WINNER

Particular description of goods.—Cambric Piece Goods.
Claims use since Jan. 2, 1916.

Ser. No. 131,555. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BRAND & OPPENHEIMER, New York, N. Y. Filed Apr. 24, 1920.



The outer ellipse is in red and the inner ellipse is in blue, the letters on both ellipses being in white.
Particular description of goods.—Cotton Cloths in the Piece Having a Full Mercerized Finish in Various Solid Colors and Fancy Printed Styles.
Claims use since Feb. 1, 1919.

Ser. No. 131,714. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) RUBBERIZED SHEETING & SPECIALTY CO., INC., New York, N. Y. Filed Apr. 27, 1920.

"PROTECTO"

Consisting of the word "Protecto."
Particular description of goods.—Sanitary Bloomers.
Claims use since December, 1919.

Ser. No. 131,743. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE MILLER RUBBER COMPANY, Akron, Ohio. Filed Apr. 28, 1920.

TEDDY PANTS

No claim being made to the word "Pants" except in the connection shown.
Particular description of goods.—Rubber Baby-Pants and Diaper-Covers.
Claims use since Apr. 1, 1920.

Ser. No. 131,769. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMERICAN POVAR CORPORATION, New York, N. Y. Filed Apr. 29, 1920.

POVAR

The trade-mark consisting of the word "Povar."
Particular description of goods.—Furniture and Automobile Polish.
Claims use since March, 1918.

Ser. No. 131,831. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM H. SCHEEL, New York, N. Y. Filed Apr. 29, 1920.

SCHEEL LAC



No claim is made to the words "Scheel Lac" apart from the mark shown in the drawing.
Particular description of goods.—Lacquer Compositions.
Claims use since February, 1920.

Ser. No. 131,897. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CO-OPERATIVE DRUG COMPANY, INC., Wilmington, Del., and Philadelphia, Pa. Filed May 1, 1920.

ASCO

Particular description of goods.—Eye-Water, (Chlorbutanol.) Worm-Syrup, and Cold-Cream.
Claims use since May 1, 1917.

Ser. No. 131,949. (CLASS 37. PAPER AND STATIONERY.) EDISON PEN COMPANY, INCORPORATED, Petersburg, Va. Filed May 3, 1920.

Edison

Particular description of goods.—Fountain-Pens and Pen-Points.
Claims use since April, 1913.

Ser. No. 132,082. (CLASS 39. CLOTHING.) HENRY COHEN & Co., New York, N. Y. Filed May 6, 1920.

Lilamy

Particular description of goods.—Ladies' Waists.
Claims use since Apr. 1, 1920.

Ser. No. 132,135. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BURPEE-JOHNSON COMPANY, Indianapolis, Ind. Filed May 7, 1920.

FLOATAFORD

Particular description of goods.—Shock-Absorbers.
Claims use since May 15, 1918.

Ser. No. 132,163. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROFT & ALLEN COMPANY, Philadelphia, Pa. Filed May 8, 1920.



No claim being made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Chocolate-Candy Confectionery.
Claims use since Apr. 12, 1920.

Ser. No. 132,313. (CLASS 39. CLOTHING.) ALFRED JAMES NORTON, Leicester, England. Filed May 11, 1920.

AJAR

Particular description of goods.—Stockings, Socks, Undershirts, Vests, Pants, Underdrawers, Trousers, Combination or Union Garments, Knitted Coats, Jackets, and Jerseys.
Claims use since June 20, 1919.

Ser. No. 132,331. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE VIBROPLEX COMPANY, INC., New York, N. Y. Filed May 11, 1920.

LICHTNINC BUC

Consisting of the words "Lightning Bug."
Particular description of goods.—Telegraphic Sending-Machines.
Claims use since on or about Mar. 1, 1919.

Ser. No. 132,419. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) A. B. C. SALES COMPANY, Chicago, Ill. Filed May 14, 1920.



No claim being made to the word "Chicago" apart from the mark shown in the drawings.
Particular description of goods.—Electric Vacuum or Suction Cleaners.
Claims use since Aug. 1, 1919.

Ser. No. 132,597. (CLASS 39. CLOTHING.) DOROTHY DODD SHOE COMPANY, Boston, Mass. Filed May 18, 1920.

Dorothy Dodd

Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or Other Fabric Construction, and Spats.
Claims use since January, 1902, on shoes; since February, 1920, on spats.

Ser. No. 132,608. (CLASS 39. CLOTHING.) MARY PERFECT, San Diego, Calif. Filed May 18, 1920.

MARY'S LITTLE BUNNY

Particular description of goods.—Slippers for Babies.
Claims use since Mar. 1, 1918.

Ser. No. 132,613. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWARD F. SCHNUCK, White Plains, N. Y. Filed May 18, 1920.

Cleancut

Particular description of goods.—Coffee.
Claims use since May 15, 1920.

Ser. No. 132,653. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JACK GEORGE METROPOL, Manning, S. C. Filed May 19, 1920.

Cracker Jack

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Mar. 1, 1920.

Ser. No. 132,676. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN ELECTRIC CO., Chicago, Ill. Filed May 20, 1920.

Samson

Particular description of goods.—Electric Vacuum-Cleaners.
Claims use since May 1, 1919.

Ser. No. 132,784. (CLASS 39. CLOTHING.) JOSEPH A. FIRSCHING, Utica, N. Y. Filed May 22, 1920.

Firsheen

Particular description of goods.—Underwear—That is, of Knitted, Netted, Textile Fabric; That is, of One Two, and Three Piece Garments, and for Men, Women, and Children.
Claims use since May 1, 1920.

Ser. No. 132,797. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE LOMAX CO., Chicago, Ill. Filed May 22, 1920.

KLARET

Particular description of goods.—A Non-Alcoholic, Maltless, Non-Cereal, Carbonated Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as a Soft Drink.
Claims use since Feb. 2, 1920.

Ser. No. 132,875. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MANHATTAN MUSICAL INSTRUMENT CO., New York, N. Y. Filed May 24, 1920.

The Princess

Consisting of the words "The Princess."
Particular description of goods.—Mandolins, Flat Mandolins, Banjo-Mandolins, Banjos, Guitars, Guitar-Banjos, Tango Cell-Banjos, Violoncello-Fifes, Drums, Bass-Drums, Bugles, Clarinets, Cymbals, Saxophones, and Harmonicas or Mouth-Organs.
Claims use since Feb. 15, 1920.

Ser. No. 133,029. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SMITH & SONS MANUFACTURING COMPANY, Kansas City, Mo. Filed May 27, 1920.

ROYTRAC

Particular description of goods.—Wheel-Scrapers, Grading-Plows, Road-Graders.
Claims use since Apr. 14, 1920.

Ser. No. 133,096. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) NICOLA LAFRONZ, West New York, N. J. Filed May 29, 1920.

GRAND TONE PHONE

Particular description of goods.—Phonographs.
Claims use since December, 1918.

Ser. No. 133,097. (CLASS 39. CLOTHING.) HARRY J. LINSK, Philadelphia, Pa. Filed May 29, 1920.

Jeanette

Particular description of goods.—Ladies', Misses', and Children's Dresses.
Claims use since May 1, 1920.

Ser. No. 133,228. (CLASS 39. CLOTHING.) TONI ROSLOFSNA, New York, N. Y. Filed June 3, 1920.

TONI TOGS

No claim being made to the word "Togs" apart from the mark shown in the drawing.
Particular description of goods.—Smocks, Dresses for Women and Children, Skirts, Waists, and Hats.
Claims use since November, 1917.

Ser. No. 133,255. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FRISBIE MOTOR COMPANY, Middletown, Conn. Filed June 4, 1920.

Frisbie MOTOR

No claim being made to the word "Motor" apart from the mark as shown.
Particular description of goods.—Internal-Combustion Engines.
Claims use since 1915.

Ser. No. 133,339. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE UNITED RUBBER COMPANY, Akron, Ohio. Filed June 5, 1920.



Particular description of goods.—Rubber Vehicle-Tire Casings and Tubes.
Claims use since Dec. 26, 1919.

Ser. No. 133,391. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed June 8, 1920.

"The Little Barber in a Box."

Particular description of goods.—Razors, Safety-Razors, and Safety-Razor Blades.
Claims use since May 1, 1920.

Ser. No. 133,428. (CLASS 39. CLOTHING.) ROBERT REIS & Co., New York, N. Y. Filed June 8, 1920. Under ten-year proviso.

MANHATTAN

Particular description of goods.—Clothing for Men, Women, and Children, as Follows: Knit and Woven Underwear, Hosiery, Bathing-Suits, and Sweaters.
Claims use since 1880.

Ser. No. 133,534. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDWIN P. GLEASON'S SON, INC., New York, N. Y. Filed June 10, 1920.



No claim is made to the exclusive use of the words "Made in U. S. A." apart from the mark as shown, and the lining on the drawing represents shading only.
Particular description of goods.—Cotton Piece Goods.
Claims use since May 17, 1917.

Ser. No. 133,535. (CLASS 39. CLOTHING.) CHAS. A. GERBER, New York, N. Y. Filed June 10, 1920.

Diana

Particular description of goods.—Ladies' Hats.
Claims use since July 1, 1919.

Ser. No. 133,558. (CLASS 39. CLOTHING.) GIRL SCOUTS, New York, N. Y. Filed June 10, 1920.

GS

Particular description of goods.—Coats, Skirts, Blouses, Hats, and Leggings for Women and Girls.
Claims use since February, 1920.

Ser. No. 133,597. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE WASHINGTON MOTOR COMPANY, Eaton, Ohio. Filed June 11, 1920.



Particular description of goods.—Automobiles.
Claims use since May 3, 1920.

Ser. No. 133,611. (CLASS 39. CLOTHING.) GEORGE F. DITTMANN BOOT & SHOE CO., St. Louis, Mo. Filed June 12, 1920.

DIT

Particular description of goods.—Rubber Boots.
Claims use since about Apr. 15, 1919.

Ser. No. 133,629. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MOUNT VERNON-WOODBERRY MILLS, INCORPORATED, Baltimore, Md. Filed June 12, 1920. Under ten-year proviso.

TALLASSEE

Particular description of goods.—Cotton Duck.
Claims use since about January, 1895.

Ser. No. 133,630. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MOUNT VERNON-WOODBERRY MILLS, INCORPORATED, Baltimore, Md. Filed June 12, 1920. Under ten-year proviso.

SAVOY

Particular description of goods.—Cotton Duck.
Claims use since about January, 1895.

Ser. No. 133,631. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MOUNT VERNON WOODBERRY MILLS, INCORPORATED, Baltimore, Md. Filed June 12, 1920. Under ten-year proviso.

HARTFORD

Particular description of goods.—Cotton Duck.
Claims use since about January, 1894.

Ser. No. 133,651. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE JOHN B. CANEPA COMPANY, Chicago, Ill. Filed June 14, 1920. Under ten-year proviso.



Particular description of goods.—Cereal Paste Goods, Such as Macaroni, Spaghetti, Vermicelli, Noodles, and Alphabets.
Claims use since on or about the 1st day of April, 1869.

Ser. No. 133,682. (CLASS 39. CLOTHING.) RIDENOUR GARMENT CO., South Bend, Ind. Filed June 14, 1920.

QUICK-ON WAIST

No claim is made to the word "Waist" apart from the mark shown.
Particular description of goods.—Suspender-Waists.
Claims use since Mar. 10, 1920.

Ser. No. 133,736. (CLASS 39. CLOTHING.) IDEAL BATH ROBE CO., INC., New York, N. Y. Filed June 15, 1920.

BABIES IDEAL



Particular description of goods.—Infants' Bath-Robes.
Claims use since May 10, 1920.

Ser. No. 133,740. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LAKESIDE BISCUIT CO., Toledo, Ohio. Filed June 15, 1920.



Particular description of goods.—Sugar Wafers.
Claims use since November, 1919.

Ser. No. 133,745. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NATIONAL EQUIPMENT COMPANY, Springfield, Mass. Filed June 15, 1920. Under ten-year proviso.

BUCK

Particular description of goods.—Machines for Separating Candles from Starch or the like, Cleaning the Starch from the Candles, Separately Delivering the Starch and Candles, Refilling and Leveling Trays with Starch.
Claims use since 1892.

Ser. No. 133,764. (CLASS 39. CLOTHING.) COHEN & LANG, INC., New York, N. Y. Filed June 16, 1920.

Cortley Jr.

Particular description of goods.—Boys' Suits and Overcoats.
Claims use since Dec. 15, 1919.

Ser. No. 133,765. (CLASS 39. CLOTHING.) COHEN & LANG, INC., New York, N. Y. Filed June 16, 1920.

Cortley High

Particular description of goods.—Men's Suits and Overcoats.
Claims use since Dec. 15, 1919.

Ser. No. 133,792. (CLASS 39. CLOTHING.) NEW YORK BOYS' SHOPS, INC., New York, N. Y. Filed June 16, 1920.



Particular description of goods.—Neckties, Mufflers, and Ear-Laps.
Claims use since Sept. 6, 1919.

Ser. No. 133,823. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CONVERTEX CORPORATION, New York, N. Y. Filed June 17, 1920.

RAMITEX

Particular description of goods.—Cotton Suitings for Women's Wear Dyed in the Piece and Cotton Suitings with Linen Finish for Women's Wear Dyed in the Piece.
Claims use since May 1, 1920.

Ser. No. 133,828. (CLASS 39. CLOTHING.) MADAME IRENE, New York, N. Y. Filed June 17, 1920.

"La Nymphe"

Particular description of goods.—Corsets.
Claims use since May 1, 1920.

Ser. No. 133,870. (CLASS 39. CLOTHING.) CORTLAND OVERALL CO., Cortland, N. Y. Filed June 18, 1920.

DAVID HARUM
UWARUM KANTTARUM

Particular description of goods.—Work-Clothes—viz., Overalls, Shirts, and Pants.
Claims use since January, 1920.

Ser. No. 133,895. (CLASS 39. CLOTHING.) READING HAT & CAP CO., New York, N. Y. Filed June 18, 1920.



No claim being made to the words "Since 1890" appearing on the drawing.
Particular description of goods.—Hats and Caps.
Claims use since 1910.

Ser. No. 133,906. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ASSOCIATED AMERICAN INDUSTRIES, INC., New York, N. Y. Filed June 19, 1920.



The lines shown on the drawing represent shading only. The exclusive use of the words "Associated American Industries" apart from the mark as shown is not claimed.
Particular description of goods.—Fancy Cotton Blankets, Cotton Crib-Blankets, Cotton Bath-Robe Blankets, and Piece Goods of Robe-Flannels, Silk-Velvets, Plushes, Upholstery-Velours, Khakis, Gabardines, Fancy Suitings, Shirtings, Fancy Shirtings, Corduroys, Velveteens, Jeans, and Sateens.
Claims use since May 19, 1920.

Ser. No. 133,952. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BIANCO & GIANASSI, Alameda, Calif. Filed June 21, 1920.



Particular description of goods.—Candies.
Claims use since June 8, 1920.

Ser. No. 134,000. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADA MILLING COMPANY, Ada, Okla. Filed June 22, 1920.

"Spur"



Particular description of goods.—Wheat-Flour.
Claims use since March, 1920.

Ser. No. 134,001. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADAM BROTHERS & SELLERS COMPANY, Houston, Tex. Filed June 22, 1920.

MOTHER HUBBARD

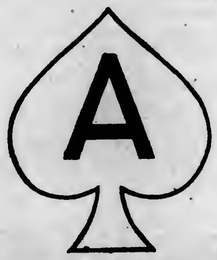


The picture being fanciful.

Particular description of goods.—Canned Vegetables and Canned Pork and Beans with Tomato Sauce.

Claims use since May, 1919.

Ser. No. 134,002. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed June 22, 1920.



Particular description of goods.—Hard-Rubber Knife-Handles, Hard-Rubber Fork-Handles, and Hard-Rubber Razor-Handles, Hard-Rubber Pumps.

Claims use since Mar. 5, 1920.

Ser. No. 134,005. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOSTON BELTING COMPANY, Boston, Mass. Filed June 22, 1920. Under ten-year proviso.



Particular description of goods.—Roller-Covers.

Claims use since 1889.

Ser. No. 134,009. (CLASS 39. CLOTHING.) J. F. COMINS & Co., New York, N. Y. Filed June 22, 1920.

PLUMETTE

Particular description of goods.—Hosiery and Knitted Underwear for Men and Women.

Claims use since Apr. 26, 1920.

Ser. No. 134,010. (CLASS 39. CLOTHING.) SAMUEL COHEN, Baltimore, Md. Filed June 22, 1920.



Particular description of goods.—Neckties.

Claims use since May 1, 1920.

Ser. No. 134,017. (CLASS 39. CLOTHING.) FORD & COHEN, Boston, Mass. Filed June 22, 1920.



Particular description of goods.—Drawers, Shirts, and Union-Suits made of Cotton and Wool and Cotton Mixture in both Textile and Knitted Materials for Men and Women and Knit Sweaters and Coats and Hosiery for Men and Women.

Claims use since Jan. 7, 1920.

Ser. No. 134,020. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GRAZI & DABAH, New York, N. Y. Filed June 22, 1920.



No claim is made for the exclusive use of the words "Grand & Durable" apart from the mark as shown in the drawing.

Particular description of goods.—Chambrays, Tickings, and Sateens all in the Piece Goods.

Claims use since Jan. 15, 1920.

Ser. No. 134,021. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE GRIETENS, New York, N. Y. Filed June 22, 1920.



Particular description of goods.—Table-Dressings.

Claims use since September, 1919.

Ser. No. 134,025. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOUISVILLE FOOD PRODUCTS COMPANY, Louisville, Ky. Filed June 22, 1920.

joy

Particular description of goods.—Soap Powder.

Claims use since June 19, 1920.

Ser. No. 134,045. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNIVERSAL BORING MACHINE COMPANY, Hudson, Mass. Filed June 22, 1920.



No claim is made to the right to the exclusive use of the words "Horizontal, Boring Machine, Trade Mark" except in the setting and relation in which they appear in the drawing, description, and samples of the trade mark filed with this application.

Particular description of goods.—Metal-Boring Machines.

Claims use since Jan. 1, 1910.

Ser. No. 134,100. (CLASS 10. FERTILIZERS.) YORK CHEMICAL WORKS, York, Pa. Filed June 23, 1920.



No claim being made to the exclusive use of the word "Fertilizers" apart from the mark as shown in the drawings.

Particular description of goods.—Fertilizers.

The trade-mark "Dempwolf's Fertilizers" has been continuously used in the business of said corporation and by those from whom its title is derived since 1870, and the design of the windmill in connection with the concentric circles and the words "Dempwolf's Fertilizers" have been continuously used in the business of said corporation since June 4, 1920.

Ser. No. 134,109. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COUDURIER, FRUCTUS & DESCHER, Lyon, France, and New York, N. Y. Filed June 24, 1920.

CREPE JOSETTE

Consisting of the words "Crepe Josette," no claim being made to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.

Particular description of goods.—Silk Piece Goods.

Claims use since Dec. 17, 1915.

Ser. No. 134,166. (CLASS 31. FILTERS AND REFRIGERATORS.) YORK MANUFACTURING COMPANY, York, Pa. Filed June 24, 1920.



The trade-mark consisting, as shown in the accompanying drawing, of the word "York" superimposed upon a letter S of ornamental type surrounded by the representation of a circular frame providing between its outer and inner edges an annular space, no claim being made here to the word "York" apart from the mark shown in the drawing.

Particular description of goods.—Refrigerating Systems and Parts Thereof and Ice-Making Systems and Parts Thereof.

Claims use since Apr. 1, 1920.

Ser. No. 134,169. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN TRADING CO., New York, N. Y. Filed June 25, 1920.

STARO

Particular description of goods.—Wheat-Flour.

Claims use since 1904.

Ser. No. 134,171. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN TRADING CO., New York, N. Y. Filed June 25, 1920.

FLEUR-DE-MAI

Particular description of goods.—Wheat-Flour.

Claims use since 1904.

Ser. No. 134,173. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN TRADING CO., New York, N. Y. Filed June 25, 1920.

MAZARIN

Particular description of goods.—Wheat-Flour.
Claims use since 1904.

Ser. No. 134,215. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROYAL PACKING CO., Los Angeles, Calif. Filed June 25, 1920.

GAME COCK

Particular description of goods.—Pimientos Morrones.
Claims use since Mar. 18, 1920.

Ser. No. 134,222. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TENNESSEE BISCUIT COMPANY, Nashville, Tenn. Filed June 25, 1920.

BELLE MEADE

Particular description of goods.—Soda Crackers, Graham Crackers, Vanilla Wafers, Ginger-Snaps, Cookies, and Animal-Crackers.
Claims use since Jan. 25, 1916.

Ser. No. 134,223. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TENNESSEE BISCUIT COMPANY, Nashville, Tenn. Filed June 25, 1920.

Ten-E-l

Particular description of goods.—Oyster-Crackers, Flakes, Lemon-Snaps, Biscuits, Fig-Bars, Chocolate Fingers, Lunch-Biscuits, Lemon-Biscuits, Butter-Thins, Wheatless Wafers, Dandy-Butters, Peanut-Butter Sandwich, Animal-Cookies, Graham Crackers, Ginger-Snaps, Vanilla Wafers, Salty Biscuits, Society-Teas, Graham Sandwiches, Honey Cookies, Iced Sugar Cookies, Sugar Cookies, Raisin Cookies, and Spice Drops.
Claims use since Jan. 25, 1916.

Ser. No. 134,363. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THEODORE GOTTMANN & SONS, Chicago, Ill. Filed June 29, 1920.



Particular description of goods.—Marshmallows.
Claims use since April, 1909.

Ser. No. 134,380. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) O'LOANE, KIELY & CO. LTD., Vancouver, British Columbia, Canada. Filed June 29, 1920.

SWEEPSTAKES

Particular description of goods.—Canned Fish—Namely, Canned Salmon, Canned Pilchards, Canned Herrings, Canned Clams.
Claims use since July 15, 1917.

Ser. No. 134,382. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLD BALDY CITRUS ASSOCIATION, Upland, Calif. Filed June 29, 1920.

ADMIRATION

Particular description of goods.—Fresh Citrus Fruit.
Claims use since Feb. 4, 1920.

Ser. No. 134,383. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLD BALDY CITRUS ASSOCIATION, Upland, Calif. Filed June 29, 1920.

INSIGNIA

Particular description of goods.—Fresh Citrus Fruit.
Claims use since Feb. 27, 1920.

Ser. No. 134,384. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLD BALDY CITRUS ASSOCIATION, Upland, Calif. Filed June 29, 1920.

Old Baldy

Particular description of goods.—Fresh Citrus Fruit.
Claims use since Feb. 4, 1920.

Ser. No. 134,476. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEXINGTON SYRUP CANNING & MFG. CO., Lexington, Ky. Filed July 1, 1920.

JOCKEY

Particular description of goods.—Table-Syrups.
Claims use since May 22, 1919.

Ser. No. 134,544. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. G. MORSE CO., Chicago, Ill. Filed July 3, 1920.

Eleanor

Particular description of goods.—Candy.
Claims use since Dec. 19, 1914.

Ser. No. 134,657. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed July 7, 1920.



Particular description of goods.—Dyestuffs.
Claims use since June 10, 1920.

Ser. No. 134,658. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed July 7, 1920.



Particular description of goods.—Dyestuffs.
Claims use since June 10, 1920.

Ser. No. 134,665. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RED WING COMPANY, INC., Fredonia, N. Y. Filed July 7, 1920.

RED WING



Particular description of goods.—Grape Jam, Raspberry Jam, Strawberry Jam, Raspberry Preserves, Strawberry Preserves, Currant Jelly, Grape Jelly, Tomato Catsup, Chilli Sauce, Apple-Cider Vinegar, and Pitted Cherries.

The trade-mark has been continuously used in the business of said corporation as applied to grape jam since Dec. 10, 1919; as applied to raspberry jam since Nov. 18, 1913; as applied to strawberry jam since Nov. 18, 1913; as applied to raspberry preserves since Aug. 8, 1916; as applied to strawberry preserves since Aug. 8, 1916; as applied to currant jelly since Aug. 12, 1916; as applied to grape jelly since Aug. 12, 1912; as applied to tomato catsup since Nov. 18, 1913; as applied to chilli sauce since Nov. 18, 1913; as applied to apple-cider vinegar since Nov. 18, 1913; as applied to pitted cherries since July 28, 1916.

Ser. No. 134,681. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE UNION BATTERY CO., Swissvale, Pa. Filed July 7, 1920.

WESTINGHOUSE

Particular description of goods.—Secondary Batteries, and Connectors Therefor.
Claims use since July 1, 1920.

Ser. No. 134,791. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EVANGELIST F. RUSS, Chicago, Ill. Filed July 10, 1920.

Evangelist F. Russ

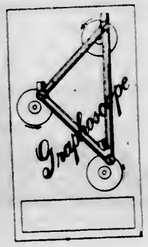
The said trade-mark being a facsimile of applicant's signature.
Particular description of goods.—A Salve for the Alleviation of Eczema, Scrofula, Itch, and Skin Eruptions.
Claims use since June 15, 1920.

Ser. No. 134,824. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD W. KEMP, Cleveland, Ohio. Filed July 12, 1920.

E W Kemp

A facsimile signature of the applicant.
Particular description of goods.—Laundry Bluing.
Claims use since July 20, 1919.

Ser. No. 134,887. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE FOREIGN PATENTS CORPORATION, New York, N. Y. Filed July 13, 1920.



Particular description of goods.—Motion-Picture-Projecting Machines, and Parts Thereof.
Claims use since June 1, 1918.

Ser. No. 135,017. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed July 15, 1920.

IVORY SOAP FLAKES

No claim is made for the words "Soap" and "Flakes" apart from the mark shown in the drawing.
Particular description of goods.—Soap Flakes.
Claims use since Sept. 7, 1918.

Ser. No. 135,076. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AARON T. SEERCY, Chicago, Ill. Filed July 16, 1920.

ATS

Particular description of goods.—A Liquid for Cleaning Leather.
Claims use since June 15, 1920.

Ser. No. 134,644. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. HOLLINSHED CO. INC., New York, N. Y. Filed July 7, 1920.



All reading matter, with the exception of the word "Pansoyeta," is hereby disclaimed.

Particular description of goods.—Choice Refined Deodorized Soy-Bean Oil.

Claims use since May 3, 1920.

Ser. No. 134,648. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. F. JONES COFFEE COMPANY, St. Louis, Mo. Filed July 7, 1920.

OLDCROW



Particular description of goods.—Coffee.

Claims use since May 28, 1920.

Ser. No. 134,654. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed July 7, 1920.



Particular description of goods.—Dyestuffs.

Claims use since June 10, 1920.

Ser. No. 134,655. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed July 7, 1920.



Particular description of goods.—Dyestuffs.

Claims use since June 10, 1920.

Ser. No. 134,656. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed July 7, 1920.



Particular description of goods.—Dyestuffs.

Claims use since June 10, 1920.

TRADE-MARK REGISTRATIONS GRANTED

AUGUST 17, 1920.

134,148. CARBURETERS. THE AERO PRODUCTS COMPANY, Cleveland, Ohio.
Filed March 9, 1920. Serial No. 129,438. PUBLISHED MAY 18, 1920.

134,149. CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF. AKTIEBOLAGET INGENIÖRSFIRMAN G. A. LINDSTEDT & CO., Stockholm, Sweden.
Filed January 22, 1919. Serial No. 115,377. PUBLISHED MAY 18, 1920.

134,150. CALCULATING-MACHINES. THE AMERICAN CALCULATING MACHINE CO., New York, N. Y.
Filed April 16, 1920. Serial No. 131,199. PUBLISHED MAY 18, 1920.

134,151. VACUUM SUCTION-PUMPS. AMERICAN DEVICE MANUFACTURING COMPANY, St. Louis, Mo.
Filed January 9, 1920. Serial No. 126,949. PUBLISHED MAY 18, 1920.

134,152. GRAIN-DRILLS. COMBINED GRAIN-DRILLS AND FERTILIZER-SOWERS, AND BROADCAST FERTILIZER-SOWERS. THE AMERICAN SEEDING-MACHINE COMPANY, Springfield, Ohio.
Filed February 9, 1920. Serial No. 128,132. PUBLISHED MAY 18, 1920.

134,153. SINK-SCOOPS. SAMUEL BERGER, Newark, N. J.
Filed November 15, 1919. Serial No. 124,928. PUBLISHED MAY 18, 1920.

134,154. FISHING-TOOLS FOR WELLS. ARTHUR H. BRANDON & CO., Toledo, Ohio.
Filed December 22, 1919. Serial No. 126,303. PUBLISHED MAY 11, 1920.

134,155. CRANES. CHESAPEAKE IRON WORKS, Baltimore, Md.
Filed December 14, 1918. Serial No. 114,642. PUBLISHED MAY 18, 1920.

134,156. CERTAIN NAMED MACHINERY, TOOLS, AND PARTS THEREOF. THE FARM EQUIPMENT CO., Baltimore, Md.
Filed December 31, 1919. Serial No. 126,686. PUBLISHED MAY 18, 1920.

134,157. CERTAIN NAMED TOOLS. THE GREB COMPANY, INC., Portland, Me., and Boston, Mass.
Filed March 8, 1919. Serial No. 116,415. PUBLISHED MAY 11, 1920.

134,158. BLADES AND CUTTERS FOR MILLING, TURNING, AND THE LIKE METAL-WORKING MACHINERY. THE HAYNES STELLITE CO., Kokomo, Ind.
Filed February 21, 1919. Serial No. 116,051. PUBLISHED MAY 18, 1920.

134,159. OPTICAL LENSES FOR SPECTACLES AND EYEGLASSES. LUTHER A. HEILIG, San Diego, Calif.
Filed January 26, 1920. Serial No. 127,592. PUBLISHED MAY 18, 1920.

134,160. MACHINERY AND PARTS THEREOF. JABEZ BURNS & SONS, New York, N. Y.
Filed November 24, 1919. Serial No. 125,217. PUBLISHED MAY 18, 1920.

134,161. STOCK-FEED-GRINDING MACHINES. S. CHENEY & SON, Manlius, N. Y.
Filed July 23, 1919. Serial No. 120,818. PUBLISHED MAY 18, 1920.

134,162. SOLDERING COMPOUNDS IN POWDER FORM. RAY S. CHURCHILL, Danville, Ill.
Filed November 12, 1919. Serial No. 124,785. PUBLISHED MAY 11, 1920.

134,163. ALUMINUM ALLOYS. CONTINENTAL CASTINGS CORP., New York, N. Y.
Filed December 5, 1919. Serial No. 125,603. PUBLISHED MAY 18, 1920.

134,164. STEEL BARS, RODS, BILLETS, BLOOMS, SHEETS, PLATES, SLABS, STRIPS, BLOCKS, AND FORGINGS. CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa.
Filed March 20, 1920. Serial No. 129,971. PUBLISHED MAY 11, 1920.

134,165. AUTOMATIC DIE-HEADS, COLLAPSIBLE TAPS, THREADING-MACHINES, AND SCREW-MACHINES. THE EASTERN MACHINE SCREW CORPORATION, New Haven, Conn.
Filed December 31, 1919. Serial No. 126,678. PUBLISHED MAY 18, 1920.

134,166. TANK-BALLS. ESSEX RUBBER COMPANY, Trenton, N. J.
Filed February 16, 1920. Serial No. 128,428. PUBLISHED MAY 11, 1920.

134,167. BABBITT METAL, BEARING METAL, TYPE-METAL. GREAT WESTERN SMELTING & REFINING COMPANY, Chicago, Ill.
Filed April 28, 1919. Serial No. 117,984. PUBLISHED MAY 11, 1920.

134,168. ANIMAL-FEED COOKERS. THE HARTMAN COMPANY, Chicago, Ill.
Filed December 23, 1919. Serial No. 126,377. PUBLISHED MAY 18, 1920.

134,169. SAW-SETS. NELS OLAF HEDMAN, Leadville, Colo.
Filed February 25, 1920. Serial No. 128,889. PUBLISHED MAY 11, 1920.

134,170. PROTECTIVE COVERINGS FOR ATTACHMENT TO THE PLATENS OR ROLLS OF TYPEWRITERS AND ADDING-MACHINES. CHARLES I. HENDRICKS, New York, N. Y.
Filed January 2, 1920. Serial No. 126,725. PUBLISHED MAY 18, 1920.

134,171. HEAT-TREATED FORGINGS. HEPPENSTALL FORGE AND KNIFE COMPANY, Pittsburgh, Pa.
Filed March 6, 1920. Serial No. 129,325. PUBLISHED MAY 11, 1920.

134,172. CERTAIN NAMED MACHINES AND PARTS THEREOF. THE HOLT MANUFACTURING COMPANY, Stockton, Calif.
Filed January 28, 1920. Serial No. 127,689. PUBLISHED MAY 18, 1920.

134,173. TOPS, FENDERS, AND CLUTCH-HOOKS AS ACCESSORIES FOR TRACTORS. HUGHES & CUBBEN CO. INC., Rochester, N. Y.
Filed August 27, 1919. Serial No. 122,046. PUBLISHED MAY 18, 1920.

134,174. GREASE-CUPS. HUNTER PRESSED STEEL CO., Lansdale borough, Pa.
Filed November 10, 1919. Serial No. 124,718. PUBLISHED MAY 25, 1920.

134,175. TAPS AND VALVES OF METAL FOR GENERAL USE WITH FLUIDS. J. JACKSON, LIMITED, Bramley, England.
Filed February 16, 1920. Serial No. 128,442. PUBLISHED MAY 11, 1920.

134,176. CERTAIN NAMED TOOLS. ROE L. JOHNSON, New York, N. Y.
Filed June 11, 1919. Serial No. 119,478. PUBLISHED MAY 18, 1920.

134,177. INSECTICIDE AND FUNGICIDE. JOSEPH M. JONES, Baltimore, Md.
Filed December 8, 1919. Serial No. 125,702. PUBLISHED MAY 4, 1920.

134,178. CERTAIN NAMED OPTICAL GOODS. JOSEPH C. KAHAN, Philadelphia, Pa.
Filed June 21, 1919. Serial No. 119,833. PUBLISHED MAY 11, 1920.

134,179. CERTAIN NAMED MACHINERY. KEYSTONE DRILLER COMPANY, Beaver Falls, Pa.
Filed February 20, 1920. Serial No. 128,689. PUBLISHED MAY 18, 1920.

134,180. CERTAIN NAMED MACHINERY AND PARTS THEREOF. MASCHINENFABRIK SCHWEITER, A.-G., Horgen, Switzerland.
Filed September 30, 1918. Serial No. 113,493. PUBLISHED MAY 18, 1920.

134,181. SPRAYING DEVICES. W. N. MATTHEWS AND BROTHER, INC., St. Louis, Mo.
Filed March 9, 1920. Serial No. 129,467. PUBLISHED MAY 18, 1920.

134,182. CERTAIN NAMED CUTLERY. CHARLES FRED MAUS, Chicago, Ill.
Filed March 5, 1920. Serial No. 129,267. PUBLISHED MAY 18, 1920.

134,183. CERTAIN NAMED CUTLERY. CHARLES FRED MAUS, Chicago, Ill.
Filed March 5, 1920. Serial No. 129,268. PUBLISHED MAY 18, 1920.

134,184. CERTAIN NAMED MACHINERY. MEISEL PRESS MANUFACTURING COMPANY, Boston, Mass.
Filed October 30, 1917. Serial No. 107,028. PUBLISHED MAY 18, 1920.

134,185. METAL PIPES, PIPE-COUPLINGS, PIPE-REDUCERS, PIPE-UNIONS, PIPE-ELBOWS. THOMAS R. E. MILLER, Evansville, Ind.
Filed June 25, 1918. Serial No. 111,798. PUBLISHED MAY 11, 1920.

134,186. AUTOMOBILE ACCESSORY. ORANGE MANUFACTURING COMPANY, Orange, Va.
Filed July 23, 1919. Serial No. 120,844. PUBLISHED MAY 18, 1920.

134,187. CERTAIN NAMED MACHINERY AND APPLIANCES USED IN THE MANUFACTURE OF FOODS, DRUGS, AND CHEMICALS. PETRI AND JONES COMPANY, INCORPORATED, Boston, Mass.
Filed November 23, 1917. Serial No. 107,567. PUBLISHED MAY 11, 1920.

134,188. BABBITT METALS. PREMIUM METAL & PACKING CO., Wilmington, Del., and Wilkinsburg Borough, Pa.
Filed November 4, 1919. Serial No. 124,532. PUBLISHED MAY 18, 1920.

134,189. HAND FIRE-EXTINGUISHERS. THE RALKO PRODUCTS COMPANY, Dayton, Ohio.
Filed November 10, 1919. Serial No. 124,734. PUBLISHED MAY 18, 1920.

134,190. SODA-FOUNTAINS AND SODA-WATER CARBONATORS. THE RUSS MANUFACTURING COMPANY, Cleveland, Ohio.
Filed February 14, 1920. Serial No. 128,408. PUBLISHED MAY 11, 1920.

134,191. SAFETY-RAZOR BLADES. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed February 24, 1920. Serial No. 128,868. PUBLISHED MAY 11, 1920.

134,192. INTERNAL-COMBUSTION AVIATION-MOTORS AND ALL KINDS OF MECHANICAL AND AERONAUTICAL INTERNAL-COMBUSTION ENGINES. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed February 24, 1919. Serial No. 116,112. PUBLISHED MAY 25, 1920.

134,193. MARINE AND STATIONARY GAS-ENGINES AND HOISTS FOR SAME. STANDARD GAS ENGINE CO., Oakland, Calif.
Filed December 12, 1919. Serial No. 125,915. PUBLISHED MAY 11, 1920.

134,194. ROLLER-BRACKETS FOR BELT CONVEYERS. STEPHENS-ADAMSON MANUFACTURING CO., Aurora, Ill.
Filed October 1, 1915. Serial No. 89,590. PUBLISHED MAY 11, 1920.

134,195. PLAIN, CORRUGATED, ROUND, SQUARE, AND FLAT IRON AND STEEL. TENNESSEE COAL, IRON & RAILROAD COMPANY, Birmingham, Ala.
Filed January 31, 1920. Serial No. 127,843. PUBLISHED MAY 18, 1920.

134,196. CERTAIN NAMED CUTLERY AND DIES FOR ENGRAVING, STAMPING, OR EMBOSSING STATIONERY. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,236. PUBLISHED MAY 18, 1920.

134,197. CINEMATOGRAPHIC FILMS. TREEFILM COMPANY, INC., New York, N. Y.
Filed February 19, 1920. Serial No. 128,623. PUBLISHED MAY 11, 1920.

134,198. CERTAIN NAMED STEEL ENAMELED WARE. THE JACOB J. VOLLRATH MFG. CO., Sheboygan, Wis.
Filed November 2, 1917. Serial No. 107,123. PUBLISHED MAY 11, 1920.

134,199. ADDING, LISTING, AND CALCULATING MACHINES. WALES ADDING MACHINE COMPANY, Kingston borough, Pa.
Filed September 27, 1919. Serial No. 123,232. PUBLISHED MAY 25, 1920.

134,200. BRAIDING-MACHINES AND PARTS THEREOF. WARDWELL BRAIDING MACHINE COMPANY, Central Falls, R. I.
Filed March 26, 1920. Serial No. 130,250. PUBLISHED MAY 25, 1920.

134,201. CERTAIN NAMED TOOLS. THE WARREN TOOL AND FORGE COMPANY, Warren, Ohio.
Filed October 30, 1919. Serial No. 124,378. PUBLISHED MAY 11, 1920.

134,202. PULLEYS. WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo.
Filed March 13, 1920. Serial No. 129,690. PUBLISHED MAY 25, 1920.

134,203. TOOL-STEEL. EDGAR T. WARD'S SONS CO., Boston, Mass.
Filed March 18, 1920. Serial No. 129,918. PUBLISHED MAY 11, 1920.

134,204. MALLEABLE-IRON CASTINGS. WEST VIRGINIA MALLEABLE IRON CO., Point Pleasant, W. Va.
Filed February 2, 1920. Serial No. 127,879. PUBLISHED MAY 11, 1920.

134,205. DRAG-SAWS. W. H. WORDEN COMPANY, San Francisco, Calif.
Filed February 3, 1920. Serial No. 127,953. PUBLISHED MAY 18, 1920.

134,206. COLD-DRAWN STEEL. WYCKOFF DRAWN STEEL CO., Pittsburgh, Pa.
Filed February 4, 1920. Serial No. 127,988. PUBLISHED MAY 18, 1920.

134,207. DISH-WASHING MACHINES AND METAL-PARTS-WASHING MACHINES. BROMLEY-MERSELES MFG. CO., New York, N. Y.
Filed October 24, 1919. Serial No. 124,134. PUBLISHED MAY 18, 1920.

LABELS

REGISTERED AUGUST 17, 1920.

21,964.—*Title:* "STAR BUILDING BLOCKS." (For Building-Blocks.) AMERICAN NOVELTY WORKS, Herndon, Pa. Filed December 19, 1919.

21,965.—*Title:* "O. B. C. COMPOUND." (For A Foot Antiseptic Compound.) MICHAEL H. BOYLE, Detroit, Mich. Filed October 23, 1918.

21,966.—*Title:* "TESORO RANCHO RED LABEL." (For Citrus Fruits.) ALBERT SUMNER BRADFORD, Placentia, Calif. Filed August 23, 1919.

21,967.—*Title:* "TESORO RANCHO FANCY." (For Citrus Fruits.) ALBERT SUMNER BRADFORD, Placentia, Calif. Filed August 23, 1919.

21,968.—*Title:* "WORLDS BEST CAFETERIA FEEDER." (For Live-Stock Feeders and Drinking-Fountains.) J. Q. CLARK TANK CO., Crawfordsville, Ind. Filed May 1, 1919.

21,969.—*Title:* "CRESCENT." (For Malt Products.) HOSEA B. FAGAN, Burlington, Iowa. Filed December 30, 1919.

21,970.—*Title:* "MEJE, A COMPOUND OF FRESH SKIMMED MILK AND COCOANUT OIL." (For A Compound of Milk and Vegetable Oil.) JOHN P. GEHL, South Germantown, Wis. Filed August 23, 1919.

21,971.—*Title:* "SUB-TREATMENT FOR GOITER AND TUMORS." (For a Salve for the Treatment of Goiter and Tumors.) LUCY A. HIBSHMAN, Canton, Ohio. Filed March 24, 1919.

21,972.—*Title:* "ACQUA DI CHININA MAGONE." (For a Hair-Tonic.) ROGER JULIAN, Brooklyn, N. Y. Filed November 13, 1919.

21,973.—*Title:* "KELLOGG'S KRUMBLED BRAN." (For a Food.) KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich. Filed December 24, 1919.

21,974.—*Title:* "OLD STYLE LADY JEFFERSON CANDIES HOME MADE." (For Candies.) LADY JEFFERSON CANDY COMPANY, Birmingham, Ala. Filed December 27, 1919.

21,975.—*Title:* "THE MASCOT." (For Scalp-Ointment.) LAURA J. LARIVEE, Detroit, Mich. Filed December 1, 1919.

21,976.—*Title:* "MACK'S OLD KENTUCKY FRUITTA PUNCH." (For a Flavoring-Syrup.) FRANK B. MCCRARY, Knoxville, Tenn. Filed July 10, 1919.

21,977.—*Title:* "SWEET HEARTS QUALITY." (For Plastic Skin-Lotions.) LOU MCNAMARA, Kansas City, Mo. Filed June 8, 1918.

21,978.—*Title:* "GERMA STOMACH AND LIVER TABLETS." (For Stomach and Liver Tablets.) A. W. O'BRIAN & COMPANY, Hutchinson, Kans. Filed August 2, 1919.

21,979.—*Title:* "WHOLE WHEAT BREAD." (For Whole-Wheat Bread.) RALSTON PURINA COMPANY, St. Louis, Mo. Filed December 13, 1919.

21,980.—*Title:* "ARGONNE CAVITY FLUID." (For Cavity Fluid.) HARRY A. SLATER, Pittsburgh, Pa. Filed December 31, 1919.

21,981.—*Title:* "ARGONNE EMBALMING FLUID." (For Embalming Fluid.) HARRY A. SLATER, Pittsburgh, Pa. Filed December 31, 1919.

21,982.—*Title:* "VALLEY BRAND." (For Fresh Apples.) VALLEY FRUIT CO. INC., Walla Walla, Wash. Filed December 27, 1919.

PRINTS

REGISTERED AUGUST 17, 1920.

5,287.—*Title:* "HAYES GLOVES." (For Leather Gloves.) THE DANIEL HAYS COMPANY, Gloversville, N. Y. Filed May 13, 1919.

5,288.—*Title:* "LECTRO SERVICE STAND." (For Devices for Locating and Eliminating Short Circuits in and Recharging Magnets of Ford Magnetos.) LECTRO SALES COMPANY, Portland, Oreg. Filed February 13, 1919.

5,289.—*Title:* "DRINK GREEN RIVER." (For Non-Alcoholic Beverages.) SCHOENHOFEN COMPANY, Chicago, Ill. Filed December 11, 1919.

5,290.—*Title:* "TRY A GREEN RIVER SODA." (For Non-Alcoholic Beverages.) SCHOENHOFEN COMPANY, Chicago, Ill. Filed December 11, 1919.

5,291.—*Title:* "BESTO NUT." (For a Spread for Bread.) WISCONSIN BUTTERINE CO., Milwaukee, Wis. Filed December 26, 1918.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

Ex parte Kuhn and Shailor.

Decided July 27, 1918.

Patents—Invention—Electrical Heating Unit.

Where the prior art disclosed in one patent an electrical heating unit consisting of a series of separate resistance-coils formed of a double spiral wound in conical form, each coil being joined to the next by a binding-post, another patent disclosed a heater having a series of coils of a continuous piece of wire, and others disclosed heating-coils of a single spiral, the wire being led back through the coil, *Held* that no invention was involved in modifying the first-named construction by making the wire continuous and winding the coils in a single instead of a double spiral in view of the other references.

[This application has matured into Patent No. 1,310,994, dated July 22, 1919.]

Appeal from Examiners-in-Chief.

ELECTRICAL HEATING UNIT.

Messrs. Whittemore, Hulbert, & Whittemore for the applicants.

Whitehead, *First Assistant Commissioner:*

The applicants appeal from the decision of the Examiners-in-Chief affirming the decision of the Primary Examiner in finally rejecting claims 5 and 6, which read as follows:

5. An electrical heating unit comprising a continuous resistor having a series of convoluted portions each formed of a single spiral and provided with a central terminal wire and a series of insulators for detachably engaging and supporting each of said convoluted portions.

6. An electrical heating unit, comprising a single continuous resistor having a series of conical convoluted portions, and a series of conical insulators for detachably engaging and supporting each of said convoluted portions.

The reference cited by the Examiner is Seiler, No. 379,822, March 20, 1888.

The invention is an electrical heating unit consisting of a series of coils made from a single piece of wire. The coils are wound in the form of a spiral, the wire from the upper end being led back through the coil.

A number of claims have been allowed by the Examiner to specify the construction and arrangement of the insulators about which the coils are placed. The present claims merely specify that the resistor is made of a continuous piece of wire and that the coils are provided with a central terminal wire.

The patent to Seiler shows a series of resistance-coils wound in conical form; but the wire is not continuous, each coil being joined to the next by a binding-post, and the coils are not wound as in applicants' case, but in a double spiral.

It was old, however, to make an electrical heater having a series of coils of a continuous piece of wire, as is shown in the patent to Seiler, No. 302,673, cited in the concurring opinion of one of the Examiners-in-Chief on the petition for rehearing. It was also old to form heating-coils of a single spiral, the wire being led back through the coil. This is shown in the patent to Coleman, No. 530,637, cited in the decision above referred to, and also in the patents to Carpenter, No. 433,671; Hoskin, No. 877,843, and Johnson, No. 1,064,739.

It must be held, therefore, that the appealed claims define nothing constituting invention over the prior art. In other words, that broadly to modify the Seiler construction by making the wire continuous and winding the coils in a single instead of a double spiral would not be invention.

In connection with the petition for rehearing before the Examiners-in-Chief there were presented two claims as substitutes for the appealed claims. These claims are slightly more specific than the appealed claims; but for the reasons stated with respect to the appealed claims they are not regarded as patentable.

The decision of the Examiners-in-Chief is affirmed.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

Bellows and Slack *v.* New York Central Railroad Company. Same *v.* Pressed Steel Car Company.

Decided May 13, 1920.

1. Patents—Appeal—Right of Holder of Legal Title to Prosecute Appeal Independent of Exclusive Licensee.

Where suit was brought by the legal owner of a patent, joined with an exclusive licensee holding a license containing a provision that if the patent should be held invalid or should be held to infringe other patents the licensee should have the right to surrender the agreement and should not thereafter be obliged to pay royalties, and the district court held the patent invalid, upon refusal of the licensee to appeal the legal owners have sufficient interest in maintaining the validity of the patents to entitle them to prosecute an appeal, although the patent had expired and no injunction could be granted.

2. SAME—PATENTABILITY—USE IN NEW DEVICE OF CONSTRUCTION PREVIOUSLY USED IN REPAIR JOBS.

Where in the use of steel cars having longitudinal sills it was found that the sill was often broken between the end of the car and the body-bolster by reason of collision or buffing and it was the practice to repair such breaks by removing the end of the sill beyond the break and splicing an end section to the main body of the sill, claims of the Bellows patent, No. 693,218, covering a car provided with a sill with a sectional end spliced to the body at a point between the body-bolster and the end, *Held* invalid because devoid of invention, as it involves only the idea of using for new cars a construction theretofore used in repair jobs. (*National Harrow Co.* v. *Quick*, 74 Fed. Rep., 236.)

3. SAME—NOVELTY—STEEL CAR.

The Bellows patent, No. 693,218, for a steel car, claims 2 and 3 *Held* void in view of prior uses.

APPEAL from the District Court for the Southern District of New York. Action by Arthur B. Bellows and Louis M. Slack and the Cambria Steel Company, plaintiffs, against the New York Central Railroad Company, defendant, and the same plaintiffs against the Pressed Steel Car Company, defendant, for infringement of Letters Patent No. 693,218.

Decrees for defendants. Plaintiffs, Arthur B. Bellows and Louis M. Slack, appeal.

Mr. George H. Parmelee and *Mr. Clarence P. Byrnes* for the appellants.

Mr. Alfred W. Kiddle and *Mr. Wylie C. Margeson* for the appellees.

Before WARD, ROGERS, and MANTON, Circuit Judges.

MANTON, *Cir. J.*:

These actions were heard as one and will be treated in one opinion.

When the actions were tried in the district court, the Cambria Steel Company, an exclusive licensee of the appellants, joined in the action. The claims were held invalid in the district court and the Cambria Steel Company refused to prosecute an appeal. Its license agreement, dated February 21, 1900, contained the following clause:

This agreement is based upon the understanding that the patents of the parties of the first part are valid, and if any of them shall be invalid or shall infringe patents to others, the party of the second part shall have the right to surrender this agreement and shall not thereafter be obliged to pay royalties under it.

Prior to making this agreement, the Cambria Steel Company was not engaged in the business of making structural-steel cars but became engaged in such manufacture thereafter. Under the license agreement, they agreed to pay the appellants five dollars per car and did so up to the date of the decree below. Many cars were built and a considerable sum was paid as royalties. When the Cambria Steel Company refused to further pay royalties or to prosecute this appeal, a motion for a severance of parties was granted and thereafter the individual plaintiffs prosecuted the appeal. A motion was thereafter made to dismiss this appeal. It was denied. At the time of such denial, it was determined to hear the merits of the appeal when we might reconsider the motion to dismiss. The license to the Cambria Steel Company appears to be a right to make and sell the cars, using the construction which, the appellants contend, is covered by their patent. It was not an assignment. (*Waterman* v. *Mackenzie*, 138 U. S., 252.) The Cambria Steel Company could not sue in its own name alone, and Bellows and Slack were made parties. We are satisfied that the appellants have an interest in maintaining the validity of the patents. The patent has expired and no injunction can be granted. The infringement alleged at bar is in reference to the car made by the manufacturer and used by the railroad company in 1910. Notice of infringement was not given until 1915. However, we shall pass upon the merits of the case rather than dismissing the appeal, as urged by the appellee.

The patent in suit relates to a sill which has been referred to as a "spliced sill" used in the manufacture of the underframe which supports the car-body of freight-cars. Frames of this and like character were made of wooden beams and planking prior to 1898. Then the steel car made its appearance. Steel plates and sheets were pressed by highly-draulic presses into different shapes and replaced wooden parts in the wooden cars. Among the parts wherein steel replaced wood were the lateral sills which not only supported the load, but were obliged to meet the buffing-blows and collisions which are of every day occurrence in the life of a freight-car.

On the 11th of February, 1902, the patent here considered was granted to Bellows. Later, the appellant Slack obtained an interest in the patent by assignment. Claims 2 and 3 of the thirteen claims of the patent are in suit and are as follows:

2. A car having a longitudinal sill with a sectional end spliced to the body of the sill at a point between the body-bolster and its end; substantially as described.

3. A car having at the side a plate-girder with an end portion detachably fixed to the body of the plate-girder at a point between the body-bolster and the end; substantially as described.

In his specifications, the inventor says:

The center sill and plate-girders are preferably made sectional—that is to say, divided at each end at a point between the body-bolster and the end of the car—and spliced, as at B, the splicing, which is sufficiently illustrated in Fig. 3, being effected by suitable flanged sections and rivets. The object is that in case the car should be injured at the end by collision the damaged end sections of the sill and plate girders may be detached and replaced with relatively small cost as compared with cutting out and replacing the entire sill, as in prior car constructions, or replacing the entire plate-girders. Within the scope of my broader claims I may, however, make the sill or the plate-girders, or both, continuous throughout their length. For economy of construction I preferably form plate-girders of less depth from the body-bolster outwardly than between the body-bolster, as shown at 12 in Fig. 1.

The act of infringement relied upon by the appellants was the sale of a car on July 26, 1910, by the Pressed Steel Car Company and the use of said car by the New York Central Railroad Company. Reading the patent, taken in conjunction with the testimony of the inventor, it is clear to us that the invention relates to making longitudinal sills of cars in sections and splicing end portions or sectional ends of the central portion of the sills at a point between the body-bolster and the end of the car, the object or purpose being to easily repair the end sections of the sill if damage should occur by reason of collision or buffing, the thought being that the repair would be less costly and, instead of the entire sill crumbling or bending, which

might result in the loss of the entire structure, the greater part of the car could be spared damage by the injury being confined to the sectional end, due to the splicing of the sills at a point between the body-bolster and the end of the car. The splicing of the sills referred to at a point between the body-bolster and the end does not confine the construction to original construction, but may involve the repair of a section of the car which may have been damaged by collision. The longitudinal sill referred to in claim 2 is not limited to any particular character of sill. It may be composed of metal beams and of suitable section as the specification reads. It comprehends any kind of a sill, whether it be wood or metal or a composite of wood and metal. The plate-girder referred to in claim 3 (which is referred to in the specifications as metal in the side sills) is used in the side sills, as it is referred to in the specifications as—

metal plates having one or more flanged metal pieces at the top and bottom edge.

Thus, the inventor utilized web-plates with a reinforcing-angle on the top to form the top chord and a reinforcing-angle on the bottom forming the bottom chord. We are satisfied that these plate-girder sides, when used in gondola or flat cars, are cargo-carrying members intended to carry part of the load and in turn, transmit the same to the body-bolster. The plate-girder extending between the body-bolster and into the space between the body-bolster and the end of the car, is the body or web of the plate-girder and it is to this that the end portion or sectional end is to be spliced by flanged sections and rivets. The manner of uniting the central and end portions is by a butt-splice. The webs of the central and end portions abut each other and are spliced together by means of splice-plates. In the construction of these cars by the Cambria Steel Company, using this sectional sill, the lower angle or chord is continuous from end to end of the car. It is by thus splicing that the inventor is able to—

remove and replace without necessarily removing the car from the track or even unloading the car.

Whether this is done, as claimed by the inventor, must necessarily depend upon the force of the collisions and damage done. It is contended by the appellant that it requires the features of the two claims to make up the total of Bellow's invention of the detachable underframe end, but we fail to find any combination of the features of the two claims together referred to in the patent. It is not referred to as a "detachable underframe end" nor does the patent require the splice to be adjacent to the body-bolster. This is not found in the claims in suit. We agree with the district court that the claims refer to details of construction.

On examining the prior art and prior uses in this structural-sill art, we are not convinced that the appellant Bellows was the first to make a successful structural-sill car. Hardie and Reese built a car with structural-steel shapes long prior to Bellows's period. The Lehigh Valley tender-underframe, which has been offered in evidence, shows the method of splicing these underframes by the splicing of center sills. The proofs establish that for many years prior to the inventor's date of conception, the Lehigh Valley Railroad Company had followed the practice of splicing center sills of damaged locomotive-tender underframes. Center sills and side sills were of rolled channels, the lightest of them being about six inches in depth and some were twelve inches in height. Any experience which this railroad company had and in which the injury was sustained by collision, it was found that it resulted principally in bending or breaking the center sills between the body-bolster and the end sills and its spliced center sills, comprised of rolled channel, and extended through the bolster at each end of the car and had sectional ends spliced thereto at a point between the bolster and the end sills. The drawings which were offered in evidence clearly show the cars having true body-bolsters. Nor can it be said that this is not an apt case of inception, because the construction as used by the Lehigh Valley Railroad Company was in connection with a tender. It is true that the inventor here entitles his patent a steel car, but when examined as to claims and specifications, it is found that the invention has to do with the sills used in car construction. The appellants are, therefore, confronted with the rule so long established and time-honored: That which infringes, if later, would anticipate if earlier. (*Peters* v. *Active Mfg. Co.*, 129 U. S., 530; *Knapp* v. *Morss*, 150 U. S., 221.) Applying an old contrivance in a new way, if such it be, to this analogous subject of constructing the underframe of a car without any novelty in the mode of applying the old construction to the new purpose, is not a valid subject-matter of patentable invention. The idea that using the construction theretofore used in repair jobs for new cars is not invention. (*National Harrow Co.* v. *Quick*, 74 Fed. Rep., 236.)

It also appears from the testimony that there were 2,000 Baltimore & Ohio cars made embodying center sills having sectional ends spliced thereto at a point between the body-bolster and the end of the cars—precisely the construction contended for in claim 2 of the patent in suit, and part of which were delivered on December 20, 1899. Some of these cars went into service before the date of this application. We think the construction of these cars anticipates appellants' invention. An examination of the drawings of the so-called Erie cars, contract for which construction was made August 2, 1899, and, as appears from a tracing dated December 11, 1899, shows the central or longitudinal sill with a sectional end spliced to the body of the sill at a point between the bolster and its end. The first car was delivered February 25, 1900, and the last car shipped May 19, 1900. In view of this construction, we cannot escape the conclusion that the idea of splicing was originated by Mr. Hanson. He supervised the construction at the Pressed Steel Car Company's plant. In the latter part of 1896 and the early part of 1897, one Hardie of Pittsburgh

designed a steel hopper-car for the Pittsburgh & Lake Erie Railroad. The drawings, which were completed January 22, 1897, and under which a large number of cars were built by the Schoen Pressed Steel Company, provided for a plate-girder side with an end portion detachably fixed to the body of the plate-girder by spliced plates running forward and back of the bolster. It is immaterial that the lower angle of this car is continuous from end to end for the reason that in the appellants' structure, as indicated in the patent in suit, the lower chord or angle 9 of the plate-girder side, projects beyond the bolster for the purpose of being utilized as one of the splicing members. This is what was done in the Hardie car. The sectional end of the Hardie car is just as detachably fixed to the plate-girder side as a sectional end or end portion of the appellants' car. The Hardie car discloses the use of the plate-girder side as a load-carrying member with a sectional end spliced thereto, and this construction will permit the sectional end or end portion of the plate-girder side to be replaced in a damaged car just as readily as in appellants' car by removing the rivets at the head of the bolster, uniting the section end with the gusset-plate and either straightening or cutting off the lower angle. This sectional end may be repaired. We think that construing claim 3, either broadly or reading it literally and limiting it to a construction in which the web of the plate-girder side extends beyond the bolster into the space between the bolster and the end of the car to which extended web a sectional end is spliced, or the splicing of the sectional end in front of or at or back of the bolster, the result is the same—the Hardie car is a complete anticipation. In addition thereto, it is clear that the Reese car, the drawings of which were made in the spring of 1897, which was placed in service on June 28, 1897, with the Pittsburgh & Lake Erie Railroad and which has been constantly in use since, anticipates the patent in suit. In these cars, the load was carried by the plate-girder side, the center sills being utilized for the attachment of draft-rigging and for the transmission of pulling and buffing strains. The sectional end of the plate-girder side in this car can be replaced just as readily as in appellants' car. It would only be necessary to remove the rivets passing through the upper angle, the web, and the lower angle of the sectional end. The fact that this freight-car has been in constant use since that date is sufficient answer to the claim of commercial failure. Indeed, the subject of splicing ends of the car was considered in the proceedings of the Master Car-Builders' Association in 1897. This method of construction of underframe was advocated by Mr. Barr and, we think, he clearly sets forth the extension of the longitudinal sills into the space between the bolster and the end sill, and that to these extending ends of the lateral sills there could be secured section ends to bridge the space between the lateral sills and the end sills so that in ordinary cases of damage, repairs could be made without disturbing the general frame. It may be that Bellows has improved on Barr's idea, but the mere fact that the new method of construction is a better one than the old, requiring perhaps less repair and having greater strength than the old one, does not alter the rule that it is not invention to produce a mere change in an instrument or machine of one material into another. (*Hicks* v. *Kelsey*, 18 Wall., 670.)

We conclude that the splicing of the sills between the bolster and the end of the car was not new and that the appellants' patent has been anticipated by uses in the prior art.

The decrees are affirmed.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 277—No. 4. TUESDAY, AUGUST 24, 1920. Price—$5 per year.

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Trade-Marks	123—No.	134,208 to No.	134,330, inclusive.
Labels	58—No.	21,983 to No.	22,040, inclusive.
Prints	26—No.	5,292 to No.	5,317, inclusive.
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Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 11, 1920.

Peter S. Maroosis, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of William S. Maroosis, corner of Washington avenue southeast and Oak street, Minneapolis, Minn., for registration of a trade-mark and trade-mark registered January 28, 1902, No. 37,688, to Peter S. Maroosis, 257 and 259 First avenue south, Minneapolis, Minn., and a notice of such declaration sent by registered mail to said Peter S. Maroosis at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Peter S. Maroosis, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 17, 1920.

Frederick Gardner, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Ward Baking Company, Southern Boulevard and East One Hundred and Forty-third street, New York, N. Y., for registration of a trade-mark and trade-mark registered January 8, 1907, No. 59,440, to Frederick Gardner, 151 East Van Buren street, Chicago, Ill., and a notice of such declaration sent by registered mail to said Frederick Gardner at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Frederick Gardner, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 17, 1920.

H. Chaloner & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Pendleton Creamery Company, Pendleton, Ind., for registration of a trade-mark and trade-mark registered June 18, 1901, No. 36,614, to H. Chaloner & Co., 36 Water street, New York, N. Y., and a notice of such declaration sent by registered mail to said H. Chaloner & Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said H. Chaloner & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 17, 1920.

Retailers' Cooperative Association, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Henry Thayer & Co., Inc., of 150 Broadway, Cambridge, Mass., for registration of a trade-mark and trade-mark registered November 12, 1912, No. 89,143, to Retailers' Cooperative Association, of 423 Market street, Camden, N. J., and a notice of such declaration sent by registered mail to said Retailers' Cooperative Association at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Retailers' Cooperative Association, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

Amendments to Amendments.

RULE 74. When an amendatory clause is amended, it must be wholly rewritten, so that no interlineation or erasure shall appear in the clause, as finally amended, when the application is passed to issue. If the number or nature of the amendments shall render it otherwise difficult to consider the case or to arrange the papers for printing or copying, the Examiner or Commissioner may require the entire specification to be rewritten.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business August 14, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Mar. 1	607
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Dec. 22	Feb. 27	956
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 17	Mar. 23	337
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Nov. 17	May 15	1,548
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Apr. 8	May 6	483
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 19	Apr. 30	529
312	7. Games and Toys; Optics; Photography; Velocipedes	Apr. 10	May 10	924
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	May 24	June 7	450
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Feb. 25	Mar. 24	584
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 19	July 3	934
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Mar. 27	Apr. 7	418
222	12. Machine Elements	Dec. 3	May 11	1,169
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 25	June 7	1,186
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	June 18	679
308	15. Bread, Pastry, and Confection Making; Coating; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 17	Apr. 20	1,251
111	16. Radiant Energy; Telegraphy; Telephony	Dec. 27	Dec. 11	898
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Apr. 16	June 21	245
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Feb. 16	Apr. 5	1,206
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 12	Feb. 16	643
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Sales; Undertaking.	May 6	May 10	660
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 9	June 18	549
249	22. Aeronautics; Firearms; Ordnance	June 8	June 14	268
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 13	May 1	727
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Mar. 1	May 1	628
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 28	July 6	208
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Dec. 24	Jan. 29	766
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Apr. 7	May 5	543
225	28. Internal-Combustion Engines	Feb. 16	Apr. 9	768
147	29. Boring and Drilling; Chucks or Sockets; Cooperage; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Feb. 17	June 9	612
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Feb. 2	July 2	1,147
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 24	Mar. 1	1,322
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Dec. 9	May 11	1,215
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 5	May 6	506
304	34. Electricity-Transmission to Vehicles; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	July 28	July 7	265
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	June 22	July 13	495
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Mar. 19	Feb. 27	1,234
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 16	Mar. 18	1,270
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Apr. 2	Apr. 24	828
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Sept. 20	Nov. 19	1,305
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 5	Feb. 26	881
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Jan. 12	May 13	843
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Feb. 16	Mar. 11	1,153
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Dec. 15	Mar. 16	1,013
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Apr. 20	June 10	313
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Feb. 7	Apr. 2	1,047
264	46. Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Jan. 6	Apr. 19	533
332	47. Brakes; Clutches; Fluid Pressure Brake and Analogous Systems	Dec. 17	Feb. 20	917

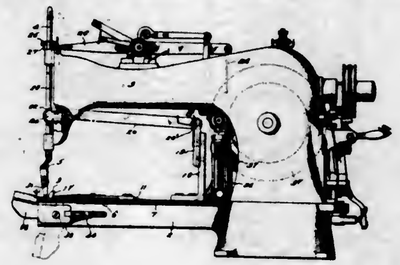
Oldest new case, Sept. 20; oldest amended, Nov. 19.
Total number of applications awaiting action..... 37,062

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Feb. 14	June 25	2,640
	Designs	Mar. 17	Apr. 27	803
	Labels and Prints	Apr. 26	July 16	693

PATENTS

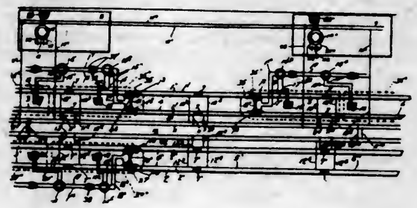
GRANTED AUGUST 24, 1920.

1,350,290. WORK-HOLDER. RUDOLPH BECKER, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 6, 1918. Serial No. 252,939. 20 Claims. (Cl. 112—104.)



1. In a sewing machine, stitch-forming mechanism, and a work-holder intermittently movable with respect thereto, said work-holder having opposed means for clamping a portion of the work adjacent the stitch-forming mechanism, one of which forms a deflector for holding another portion of the work away from the stitch-forming mechanism.

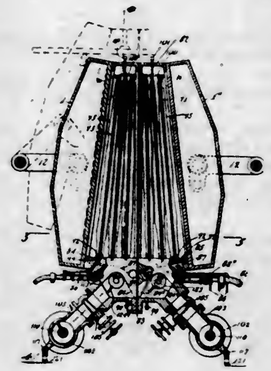
1,350,291. TELEPHONIC APPARATUS. ISIDOR BERLINER, ABRAHAM BERLINER, and SAMUEL BERLINER, Toronto, Ontario, Canada. Filed Mar. 12, 1917. Serial No. 154,331. 3 Claims. (Cl. 246—9.)



1. The combination with track rails divided into insulated sections, of a train having its axles insulated from its wheels, telephones on said train, wires connecting said telephones with said wheels, a central station having a telephone, wires running parallel to said tracks, wires connecting said last named wires with said telephone in said central station, bond wires connecting said track sections with said wires parallel to said tracks, and a battery in said central station for said telephones.

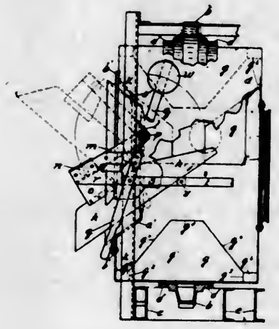
1,350,292. ART OF FILTERING MATERIALS. JOHN J. BERRIGAN, Orange, N. J., assignor to Henry R. Worthington, New York, N. Y., a Corporation of New Jersey. Filed Dec. 8, 1915. Serial No. 65,652. 26 Claims. (Cl. 210—185.)

1. In a filter, the combination, with a casing, a hollow filter element supported therein and comprising walls of filter cloth, and means for conducting material to be filtered to the interior of the casing, of means for conducting away filtrate from the interior of the hollow filter element, and means for supplying a heated fluid to the interior of said filter element while the filtration is in progress.



21. In a process of filtering, the step which comprises maintaining a body of heated fluid within the filter element during the filtering operation.

1,350,293. CONCRETE-MIXERS. EDWARD W. BRACKENBURY, Milwaukee, Wis., assignor to The T. L. Smith Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 19, 1914. Serial No. 846,056. Renewed Apr. 15, 1920. Serial No. 374,201. 9 Claims. (Cl. 83—73.)



1. In a concrete mixer, a rotary mixing drum having an end movable therewith and provided with a discharge opening near the axis of the drum, and an inclined discharge spout entering the drum in a position to cross the plane of the discharge end of the drum at a point lower than the discharge opening, said discharge end of the drum being depressed to carry the discharge opening within the drum nearer to the medial plane of the drum.

2. In a concrete mixer, a rotary mixing drum having mixing and lifting blades and a discharge end movable

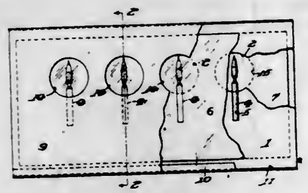
therewith, a conical ring passing through an opening in the discharge end of the drum with its smaller end projecting within the drum and forming a discharge opening in a plane closer to the medial plane of the drum than said discharge end of the drum, and an inclined discharge spout entering the drum through the discharge opening in a position to cross the plane of the discharge end of the drum at a point lower than the discharge opening.

3. A rotatable mixing drum containing a plurality of tapering scoops symmetrical in form and position as referred to the medial plane of the drum, each scoop having its wide end attached to the periphery of the drum, and its narrow end opening toward the axis of the drum, and supplemental blades of comparatively small height extending from the front edge of the sides of the scoops to the drum heads and adapted and arranged to deflect material at the bottom corners of the drum into the scoops.

4. A mixer, comprising a rotary drum having lifting and mixing elements therein, and provided at its discharge end with a conical ring having its smaller end projecting into the drum from said discharge end, and a pivotally supported discharge spout mounted to swing into the drum to an inclined position across the plane of the discharge end at a point lower than the discharge opening.

5. In a concrete mixer, a rotary mixing drum having mixing and lifting blades, a pivotally mounted discharge spout having its pivots located between the planes in which the heads of the drum are located, and supporting bearings for said pivots, said pivots and bearings being located outside of the drum and said spout being inclined toward the interior of the drum when in an inoperative position.

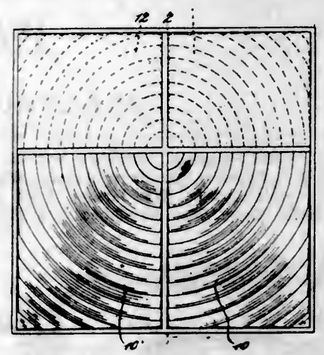
1,350,294. CONTAINER FOR TALKING-MACHINE STYLI. HENRY C. BROWN, Merion, and ERNEST JOHN, Ardmore, Pa., assignors to Victor Talking Machine Company, a Corporation of New Jersey. Filed Mar. 18, 1916. Serial No. 85,053. Renewed June 4, 1920. Serial No. 386,580. 4 Claims. (Cl. 206—44.)



1. A container for talking machine styli comprising a body having an aperture and a slot communicating therewith, transparent material on each side of said body covering said aperture, and a cover enveloping said body and having openings registering with said aperture, the sides of said slots being adapted to wedge between them the shank of a stylus and to direct the point of a stylus into said aperture.

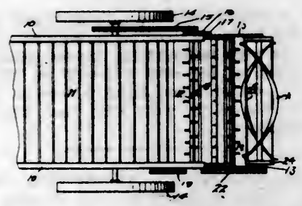
1,350,295. ILLUMINATING MEANS. LAWRENCE N. CHAMPEAU, Jersey City, N. J., assignor to Kirby, Champeau Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 18, 1919. Serial No. 290,938. 9 Claims. (Cl. 241—1.)

1. A lens adapted to be associated with an artificial source of illumination, said lens having an axis in which the light source is to be substantially located and having upon one side of a diametrical line through said axis a series of prisms each tapering toward said axis along any radius from said axis through said prisms and having upon the opposite side of said axis line and upon the



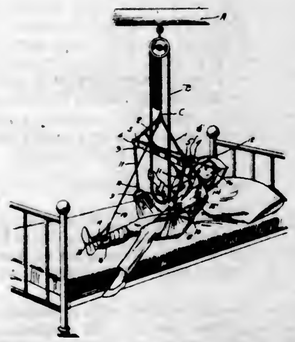
opposite face of said lens a series of prisms each tapering away from said axis along any radius from said axis through said prisms.

1,350,296. MANURE-SPREADER. WILLARD J. COOK, Des Moines, Iowa. Filed Aug. 20, 1919. Serial No. 318,724. 7 Claims. (Cl. 275—6.)



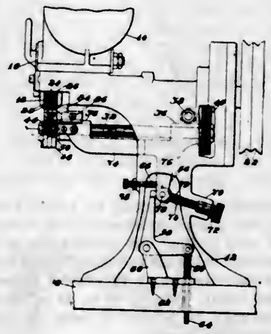
2. In a device of the class described, a spreader having an apron in the bottom thereof adapted to feed material rearwardly, a drum mounted at the rear end of said apron and adapted to pulverize the material received therefrom, and a spreading cylinder disposed rearwardly of the pulverizing cylinder, having blades mounted thereon of equal width throughout their length, and adapted to deposit fertilizer upon an arc of greater width than the width of the spreader.

1,350,297. SELF-ASSISTING APPARATUS FOR INVALIDS. JAMES F. COOLEY, Richmond, Calif. Filed Sept. 4, 1918. Serial No. 252,589. 2 Claims. (Cl. 5—44.)



1. A device of the character described including a body supporting sling, a separable head piece associated therewith, a suspension bar disposed transversely across said sling and normally in proximity to said head piece when said sling is at rest, flexible connections between the head piece and the said bar, other connections between the outer ends of said sling and said bar, hoisting means attached to said bar for raising the sling to an elevated position, said sling adapted, during elevation to so incline itself in accordance with the weight of the person carried thereby as to bring the head piece in a plane above the body of the sling.

1,350,298. CEMENTING-MACHINE. JOHN W. COSGROVE, Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 4, 1918. Serial No. 220,240. 21 Claims. (Cl. 91—49.)



5. In a machine of the class described, opposite rotatable operating and feeding member, the feeding member consisting of a plurality of relatively movable sections contacting with the work over a width approximately that of the operating member.

18. In a machine of the class described, a work-engaging member, and connections for moving the work-engaging member, said connections including an element constructed and arranged to permit it to be reversed with respect to an associated connecting element and thereby to move the work-engaging member from different normal positions.

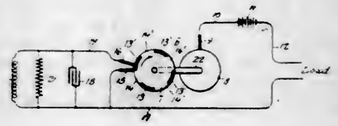
1,350,299. RIM NIGHT-LATCH. THOMAS E. CROUCH, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Feb. 24, 1920. Serial No. 361,025. 8 Claims. (Cl. 70—46.)



1. The combination of a spider adapted to be secured to a door, a bolt and its mechanism mounted in and carried by the spider, and a casing detachably secured to the spider.

1,350,300. INTERRUPTER-SPARK-SUPPRESSION METHOD AND DEVICE. WILLIAM J. CRUMPTON, Evanston, Ill. Filed Apr. 26, 1917. Serial No. 164,735. 5 Claims. (Cl. 175—294.)

1. The combination with a pair of interrupter contacts, of means for opening and closing said contacts, and means for preventing sparking between said contacts consisting of a shunt comprising a reactance, a resistance, and a condenser connected in parallel, and means for connecting said shunt across said contacts before said contacts are opened and after said contacts are closed.



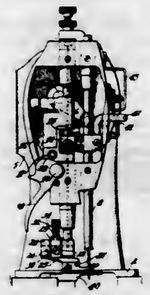
2. The combination with a pair of interrupter contacts, of means for opening and closing said contacts, and means for connecting said condenser across said contacts before said contacts are opened and after said contacts are closed.

3. The combination with a pair of interrupter contacts, of means for opening and closing said contacts, and means for preventing sparking between said contacts, consisting of a shunt across said contacts, the said shunt comprising a condenser, a resistance, and a reactance connected in parallel.

4. The combination with a pair of interrupter contacts, of means for opening and closing said contacts, and means for preventing sparking between said contacts, consisting of a shunt across said contacts, the said shunt comprising a condenser and a reactance connected in parallel.

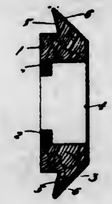
5. The combination with a pair of interrupter contacts, of means for opening and closing said contacts and means for preventing sparking between said contacts consisting of a shunt across said contacts, said shunt comprising a resistance and a reactance connected in parallel.

1,350,301. PRESSER MECHANISMS FOR SEWING-MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Dec. 26, 1917. Serial No. 208,724. 19 Claims. (Cl. 112—235.)



1. In a sewing machine, a presser mechanism including a foot and a presser-bar, a spring yieldingly urging said foot into engagement with the work, a second spring supported by said foot and sustaining said presser-bar, in combination with work-feeding mechanism including a feed-dog movable up and down whereby during the normal operation of the machine the presser-bar is prevented from vibrating up and down with the feed-dog during the stitching of work of a uniform thickness whatever it may be.

1,350,302. SIGN. GEORGE LEO ELDRIDGE, New Brunswick, N. J. Filed Nov. 7, 1919. Serial No. 336,449. 2 Claims. (Cl. 40—125.)



1. A sign comprising a frame having eaves whose rear edges are spaced forwardly from the rear edge of the body of the frame, and a panel therefor having ears adapted to be folded around and behind said eaves and secured thereby.

1,350,303. INDICATOR. JACOB W. ELVIN, Chicago, Ill. Filed Aug. 24, 1914, Serial No. 858,386. Renewed December 31, 1919. Serial No. 348,541. 1 Claim. (Cl. 40—70.)



In a memorandum indicator, a card having a small opening therein, a circular disk pivoted thereon and disposed so that the disk protrudes beyond the edge of the card where it may be engaged, said disk being provided with a series of numerals adapted to be successively exposed through the small opening in the card by turning the disk, and said disk having a peripheral notch disposed so that it will be in the protruding part of the disk when the zero point of the disk is exposed through said small opening, the periphery of the disk being otherwise circular.

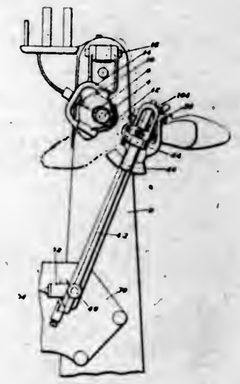
1,350,304. CAPSULE FOR ANTISEPTICS AND THE LIKE. LEO E. EVSLIN, New York, N. Y. Filed June 19, 1918. Serial No. 240,808. 5 Claims. (Cl. 167—3.)



1. A capsule of the class described having a passageway therein providing for the egress of fumes therefrom, means whereby the capsule may be opened, and said means being of a character such that the opening of the capsule separates the parts forming said passageway for the purpose set forth.

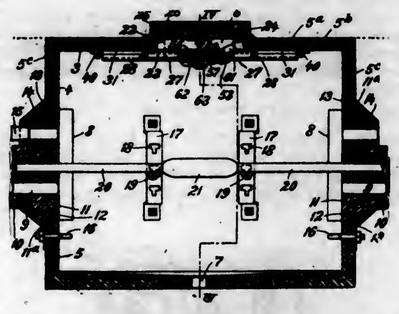
5. A capsule comprising a body part and a cover part, the cover part having a flange thereon telescoping the body part, the body part having a plurality of projections formed thereon for engaging the flange of the cover part to retain said flange spaced from the body part intermediate said projections to thereby provide a plurality of passageways for the passage of air through the capsule, and said flange being shaped to engage said projections in a manner to retain the cover out of engagement with the upper edge of the body.

1,350,305. TRIMMING-MACHINE. JOSEPH FAUSSE, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 30, 1917. Serial No. 204,640. 21 Claims. (Cl. 12—87.)



6. In a machine for trimming an insole attached to a last, a cutter, and a gage constructed and arranged to engage the last edge to limit the penetration of the cutter, the end of the gage being arranged to contact with the last at the heel breast portion as the cutter approaches this portion of the insole, and to serve as a fulcrum about which the last may be rotated to lead the point of cut out to the edge of the insole.

1,350,306. MANHOLE CONSTRUCTION. ISAAC C. FORSHEE, Germantown, Pa., and CHARLES GILMAN, Plainfield, N. J. Filed June 9, 1917. Serial No. 173,908. 13 Claims. (Cl. 72—100.)

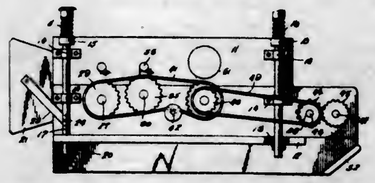


1. As a new article of manufacture, a monolithic reinforced concrete manhole having a continuously curved side wall acting as an arch when subjected to pressure from any lateral direction, said manhole being manufactured above ground and adapted to be transported and set in position as a unit, and having a conduit opening in the side wall thereof and having a pulling-in bolt set in the side wall opposite to said conduit opening.

1,350,307. WIRE-MILL. THOMAS FULLBRIGHT, St. Louis, Mo. Filed Oct. 16, 1918. Serial No. 258,349. 2 Claims. (Cl. 153—54.)

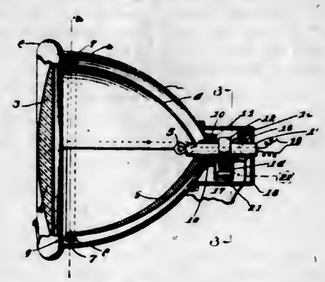
1. A mill for straightening wire or the like comprising two superimposed sections, transverse grooved and serrated rolls carried by both of the sections and contacting

respectively, a hopper having upper and lower inclined walls at the delivery mouth of the mill, angularly arranged straps pivotally connected to the lower mill section and to the sides of the hopper, and means for simultaneously revolving the rolls of the upper and lower sections at the same rate of speed in an opposite direction, ears on the



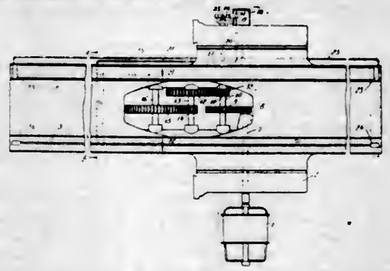
upper section, ledges on the lower section, brackets on both of the sections, headed rods passing through the respective ears, brackets and ledges, springs between the heads of said bolts and the ears, and means for adjustably securing the bolts to the ledges whereby to hold the sections of the mill associated and to regulate the tension of the springs.

1,350,308. ADJUSTABLE REFLECTOR FOR HEADLIGHTS. DAVID A. GARDEN, St. Louis, Mo. Filed Aug. 16, 1919. Serial No. 317,942. 1 Claim. (Cl. 240—41.)



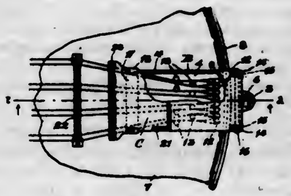
A non-glaring long-distance headlight, comprising a casing, a reflector made in two sections and mounted in said casing, one of said sections being fixed at the top of said casing and the other one of said sections being mounted to rotate to a position above and behind the said fixed section; and means connected to the said rotatable section for moving the same to a position above and behind said fixed section as well as for bringing said rotatable section to a position below said fixed section.

1,350,309. LUBRICATING SYSTEM FOR PLANERS. GEORGE E. GREENLEAF, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 3, 1919. Serial No. 280,435. 7 Claims. (Cl. 184—5.)



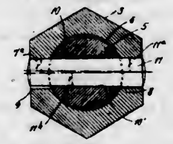
7. The combination with a planer bed, a reciprocating table on the bed and gearing and shafting for driving and reversing the table, of a lubricating system comprising a double-ended plunger pump, piping leading from one end of the pump to the ways or bearing surfaces on the bed, other piping independent of the first piping leading from the other end of the pump to the bearing surfaces of the gearing and shafting, a pump operating shaft connected with the table drive gearing and reversing when the gearing reverses, mechanism interposed between the operating shaft and the pump for operating the pump during rotation of the shaft in each direction, independent reservoirs for receiving lubricant from the bearing surfaces on the bed and from the gearing and shafting respectively, and independent pipes leading respectively from the said reservoirs to the corresponding ends of the pump.

1,350,310. TAILPIECE FOR BANJOS AND THE LIKE. ALBERT D. GROVER, New York, N. Y. Filed Jan. 7, 1918. Serial No. 210,756. 8 Claims. (Cl. 84—300.)



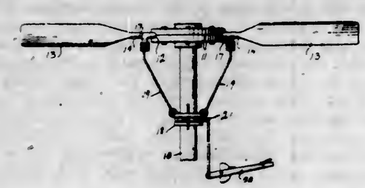
1. A banjo, or the like, provided with a tailpiece comprising a base-plate secured to the rim of the instrument and extending over the head toward the bridge, a plurality of slightly spaced lugs projecting upwardly from said base-plate and constructed to receive the looped ends of wire strings, the spaces between the lugs being of less width than the knotted end of a gut-string or silk string, and a plurality of fixed pins extending upwardly from said base-plate and arranged in two rows in such a way that the strings pass at an angle to the longitudinal axis of the instrument from the first row of pins to the second row of pins and from there over the bridge, whereby said pins serve to relieve the strain on the ends of the strings.

1,350,311. PLUG OR THREAD GAGE. FRANK O. HOAGLAND, Bridgeport, Conn. Filed Nov. 9, 1918. Serial No. 261,779. 3 Claims. (Cl. 279—97.)



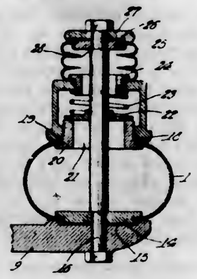
1. The combination of a gage member provided with a gaging surface thereon and having a cylindrical shank, a handle having a cylindrical aperture for receiving and closely fitting the shank, and a tapered pin of approximately circular cross section for securing the shank in place, the handle having two approximately central opposite transverse cylindrical pin-receiving holes arranged with their walls in alinement at one side and the shank having a transverse cylindrical pin-receiving hole which is approximately central but which is laterally offset on the side of the said alined walls out of exact register with the handle holes, the last said hole being of such diameter that the pin bears at one side against the alined walls of the handle holes and at the other side against the opposite wall of the shank hole.

1,350,312. MECHANISM FOR ADJUSTING PROPELLER-PITCH. WALTER L. HUBBARD, Ferris, Ill. Filed Dec. 4, 1918. Serial No. 265,230. 10 Claims. (Cl. 170—163.)



1. A propeller having a propeller shaft, confronting disks mounted upon the shaft and mutually grooved to provide spindle passages extending tangentially to a circle concentric to the axis of the shaft, propellers having spindles rotatably mounted in said passages and extending entirely across the disks and beyond the disks on each side, means for rotating said spindles, the extremities of the spindles opposite the blades being formed with angularly extending arms, means connected to said arms whereby the spindles may be rotated to thereby control the pitch of the blades, and means detachably engaging the disks with each other.

1,350,313. SHOCK-ABSORBER. OSCAR S. JEFFRIES, Sr., Philadelphia, Pa., assignor of one-half to George W. Kirk, Philadelphia, Pa. Filed Sept. 9, 1919. Serial No. 322,713. 4 Claims. (Cl. 267—22.)



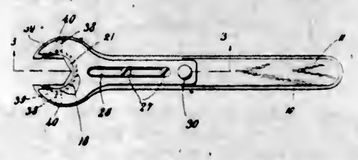
1. The combination with an automobile having a chassis, an axle and an oscillating arm pivotally connected to said chassis and rigidly secured to said axle of a shock absorber comprising a globular cushion member secured to the end of said oscillating arm and said chassis, a second cushion member and a reciprocating rod connecting the first mentioned cushion member with the second mentioned cushion member.

1,350,314. SNAP-FASTENER. MICHAEL KATZMAREK, Duluth, Minn. Filed Apr. 9, 1918, Serial No. 227,589. Renewed Feb. 12, 1920. Serial No. 358,128. 5 Claims. (Cl. 24—211.)



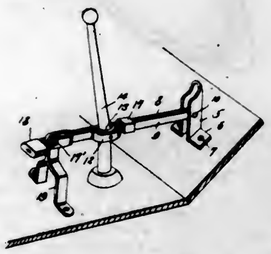
1. A snap-fastener comprising two separable parts adapted to be secured to material, one of said parts having a post projecting therefrom provided with a circumferential recess, the other of said parts having a spring wire loop engageable in said recess to hold said post, a spring controlled spindle for operating said loop, and a guide-plate, supported in the last named part, having openings to receive said spindle and loop.

1,350,315. WRENCH. MICHAEL KATZMAREK, Duluth, Minn. Filed Sept. 9, 1918, Serial No. 253,294. Renewed Feb. 12, 1920. Serial No. 358,129. 2 Claims. (Cl. 81—60.)



1. A wrench having a handle with an enlarged head, a gripping head rotatably engaged therein, teeth formed on the periphery of said gripping head, plungers operable in said enlarged head adapted to engage said teeth, cylindrical hubs on the opposite faces of said gripping head, plates slidable on said handle having semi-circular recesses on their forward ends, the forward ends of said plates projecting over marginal portions of the said gripping head and having the said cylindrical hubs snugly engaged in the said recesses thereby holding said gripping head in position, and means permitting the operation of said plates whereby either or both may be retracted from said gripping head.

1,350,316. AUTOMOBILE-LOCK. AUGUST W. KEMMLING, Springfield, Mo. Filed Aug. 19, 1919. Serial No. 318,440. 1 Claim. (Cl. 70—128.)



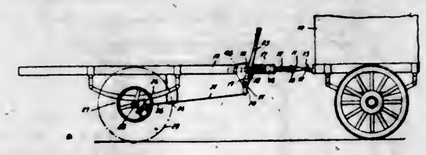
In a locking device for shifting levers of automobiles, a bracket, bars hinged together on the bracket and normally having independent movement with respect to each other, one of the bars being offset to receive a shifting lever, a yoke attached to the bar within the offset portion to engage the said lever, a plate on the other bar shaped to embrace the companion bar to prevent spreading of the bars and means for locking the ends of the bars together.

1,350,317. ALLOY FOR ELECTRIC WELDING. EDWARD J. KINGSBURY, New York, N. Y. Filed Nov. 20, 1919. Serial No. 339,344. 4 Claims. (Cl. 219—8.)

1. An electric welding alloy containing iron, carbon, manganese, and vanadium.

1,350,318. AUTOMOBILE-BRAKE. EDWARD V. LAWRENCE, Englewood, N. J., assignor to E. V. Lawrence Safety Brake Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 8, 1918. Serial No. 248,870. 10 Claims. (Cl. 188—112.)

8. A trailer comprising means for coupling to a tractive element, a brake actuating means adapted to be moved automatically to a limited extent in response to the relative movements between the trailer and its tractive element, a brake drum on a trailer wheel, a relatively stationary support, a brake member mounted thereon and adapted to coöperate with the drum, and a brake setting



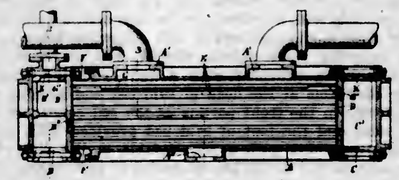
gearing arranged to set the brake under movement of the automatic brake actuating means for forward wheel rotation and dependent upon a predetermined adjustment of the brake member to release the brake in spite of the automatic actuating means.

1,350,319. SPARK-PLUG. OTIS L. LONGWORTH, Detroit, Mich., assignor of one-half to A. L. McCormick, Detroit, Mich. Filed Sept. 27, 1919. Serial No. 326,839. 3 Claims. (Cl. 123—169.)



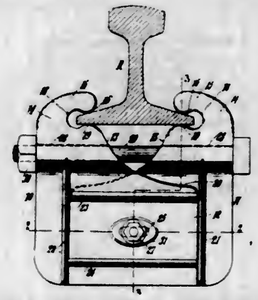
1. A spark plug having a chamber and openings thereinto of small area as compared to that of the chamber and having two spark gaps, one of which is formed within said chamber and the other in one of said openings communicating with the chamber.

1,350,320. FEED-WATER HEATER. LUTHER D. LOVEKIN, Philadelphia, Pa. Filed Sept. 25, 1916. Serial No. 122,046. 1 Claim. (Cl. 257—236.)



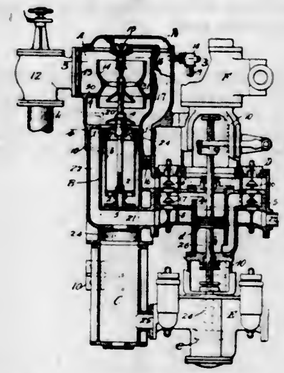
Heat exchange apparatus comprising in combination a casing inclosing a vapor chamber with an upper inlet for the vapor and a lower outlet for the liquid of condensation, a group of horizontally disposed tubes traversing said chamber and arranged in rows diagonally inclined downwardly and toward a central vertical plane of the intertube space, correspondingly inclined baffle plates arranged between the rows of tubes to provide diagonal vapor and water of condensation paths leading inwardly and downwardly from the upper and side edges of the intertube space, and a central downwardly extending escape passage for liquid of condensation, and a trough shaped baffle extending along and partially closing the upper end of said passage.

1,350,321. RAIL-ANCHOR. JOHN LUNDIE, New York, N. Y. Filed Nov. 17, 1919. Serial No. 338,521. 29 Claims. (Cl. 238—327.)



4. A rail anchor, provided with means for automatically gripping the rail, by the influence of the creep of the rail, said anchor comprising twin, overlapping, road-bed-engaging blades.

1,350,322. FEED-WATER-HEATING APPARATUS. THOMAS C. MCBRIDE, Philadelphia, Pa., assignor to Worthington Pump and Machinery Corporation, a Corporation of Virginia. Filed July 27, 1918. Serial No. 246,960. 25 Claims. (Cl. 261—34.)



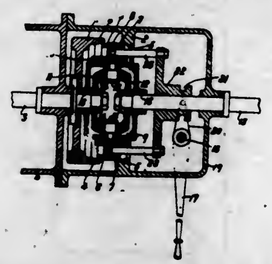
1. In feed water heating apparatus, the combination with the steam and water chamber, of a bucket having openings for the flow of water into the bucket on excessive flow through the heater, and ports controlled by the bucket for delivering water from the heater on the lowering of the filled bucket and closing the ports to stop the flow on the emptying and raising of the bucket.

1,350,323. GATE. CHARLES A. MCCANN, Springfield, Ill. Filed June 16, 1919. Serial No. 304,412. 9 Claims. (Cl. 39—82.)



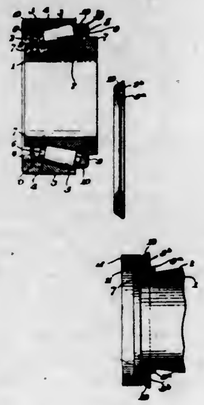
1. The combination with a gate having a frame, of a support, a panel longitudinally slidable in the frame and having a slot in one end, and an arm having one end pivotally connected to the support and the opposite end pivoted in the slot of the longitudinally slidable panel.

1,350,324. REVERSING-GEAR. COLIN HUGH MACMILLAN, Anniesland, Glasgow, Scotland. Filed June 2, 1920. Serial No. 386,028. 5 Claims. (Cl. 74—34.)



1. In a reversing gear, in combination, a drive shaft, a driven shaft, a differential gear interposed between said drive shaft and said driven shaft, a housing for said differential gear, a driver on said drive shaft provided with a clutch face, a stationary arresting member provided with a brake face, a clutch member sleeving said housing and provided with opposed faces engageable alternately with said clutch face and said brake face, means for shifting said clutch member toward said clutch face or toward said brake face, and means whereby the force effecting frictional engagement between said clutch member and said clutch face or between said clutch member and said brake face is proportionated to the torque exercised on said driven shaft.

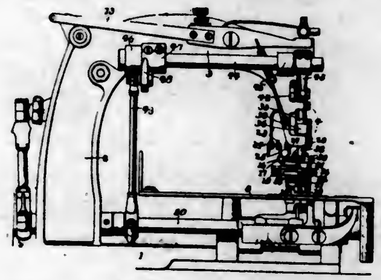
1,350,325. METHOD OF ASSEMBLING ANTIFRICTION-BEARINGS. ALFRED H. MILLER, Philadelphia, Pa., assignor, by mesne assignments, to Wright Roller Bearing Company, Philadelphia, Pa., a Corporation of Delaware. Filed June 17, 1919. Serial No. 304,958. 6 Claims. (Cl. 29—84.)



1. The method of mounting retaining rings on an annular member provided with an annular groove in which the ring is to seat comprising pressing a retaining ring having a dished web upon said member into line with said groove, and then straightening the web of said ring.

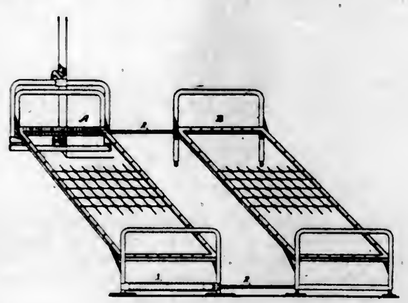
1,350,326. STITCH-FORMING MECHANISM FOR SEWING-MACHINES. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 16, 1915. Serial No. 34,426. 11 Claims. (Cl. 112—100.)

1. The combination with a work support, a feed, a presser foot, a main presser bar, needles, and complemental stitch forming mechanism, of a cross thread laying mechanism including a thread guide movable in a direction substantially parallel with the line of feed, a thread hook cooperating therewith, an auxiliary presser bar movable up



and down with the main presser bar, means for oscillating said auxiliary presser bar, and devices operated by said auxiliary presser bar for actuating said thread guide and said thread hook.

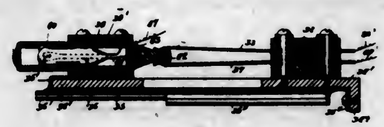
1,350,327. BED. MABEL MOIR, San Francisco, Calif. Filed Jan. 2, 1917. Serial No. 140,262. 1 Claim. (Cl. 5—18.)



In combination with a fixed support, a frame centrally hinged to said fixed support and sustained thereby, a pair of beds in alinement, the head of one of said beds being hung within said frame and provided with a slideway extending transversely therein and the foot of said bed being provided with a slideway at its base extending transversely therein, the openings of said slideways being narrower than the inner portion thereof, and the other of said beds being provided with a rod extending transversely therefrom at the head of said bed and slidable in the slideway in the front portion of the bed connected to said frame, and the foot of said bed provided with said rod being provided with a rod slidable in the slideway in the rear portion of the bed connected to said frame, and each of said rods being provided with a head in the slideway in which it is slidable of greater diameter than the opening of said slideway.

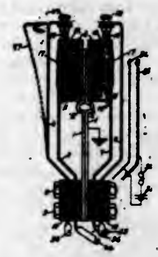
1,350,328. SWITCHBOARD AND THE LIKE. FREDERICK A. MUSCHENHEIM and FREDERIC W. BLASDALE, New York, N. Y. Original application filed Jan. 12, 1918, Serial No. 211,502. Divided and this application filed Aug. 17, 1918. Serial No. 250,289. 6 Claims. (Cl. 177—326.)

6. In an electric switchboard, two adjacent electric contacts, a conducting socket associated with said contacts, said contacts and sockets being adapted for connection with a signaling circuit, and a signal lamp having a conducting sleeve adapted to slip into said socket, a filament one end of which is connected with said sleeve, and a



plug connected with the other end of said filament and adapted to engage said contacts and electrically bridge the gap between them.

1,350,329. ELECTRICAL PROTECTIVE APPARATUS. FREDERICK R. PARKER, Chicago, Ill. Filed Mar. 8, 1907, Serial No. 361,354. Renewed Jan. 8, 1920. Serial No. 350,249. 27 Claims. (Cl. 200—115.)



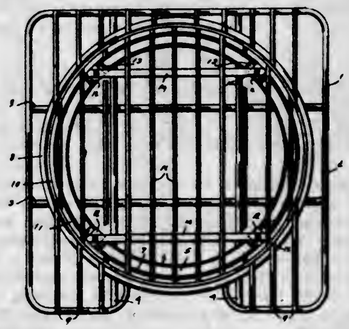
1. In apparatus of the character described, a high-potential electricity arrester comprising a pair of electrodes normally held in separated relation and in close proximity to each other by a suitable dielectric, an extension on one of the electrodes adapted to produce heat upon abnormal electrical conditions, a suitable terminal cap on the said extension, a circuit-controlling spring, and a piece of heat-susceptible material normally holding the circuit-controlling spring in contact with the said cap.

2. In apparatus of the character described, a high-potential electricity arrester comprising electrodes normally held in close proximity to each other, an extension on one of the electrodes adapted to produce heat upon abnormal electrical conditions, a terminal for the said extension, circuit-controlling means, and heat-susceptible material normally holding the said terminal and circuit-controlling means in electrical connection with each other.

3. In apparatus of the character described, a high-potential electricity arrester comprising electrodes normally held in close proximity to each other, excess-current heat-producing means associated with one of the electrodes whereby an arc in the arrester heats the heat-producing means, circuit-controlling means, and heat-susceptible material normally holding the circuit-controlling means in circuit with the heat-producing means.

1,350,330. TURNTABLE-RACK FOR OVENS. ORA LEE PARTONNAR, Kansas City, Mo. Filed Aug. 13, 1919. Serial No. 317,274. 1 Claim. (Cl. 126—338.)

A turntable rack for ovens, consisting of a portable shelf member, an annular channeled member mounted on said shelf member and having an inner and outer vertical flange, a circular guard disposed outwardly of and in a plane above said channeled member, a plurality of spaced apart rods connected between the ends of said shelf member and said guard and adapted for holding the latter elevated, and a turn table mounted on said shelf member and within said guard, said turntable comprising an annular vertical flange provided on its inner side with a plurality of pivotally mounted wheels traveling in said channeled member and a plurality of spaced apart parallel



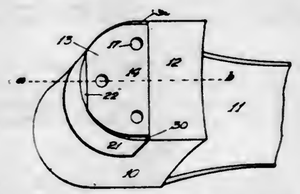
bars arranged on the upper edge of the flange and forming with the rods supporting said guard a grating for the rack.

1,350,331. SHELF-REACHER. JULIUS PEDERSEN, Bridgeport, Conn. Filed Mar. 29, 1919. Serial No. 286,170. 6 Claims. (Cl. 294—23.)



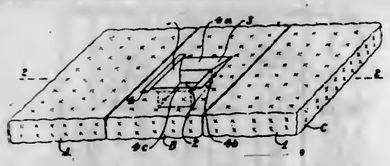
1. In a device of the character described, a support, a slotted member extending upwardly from an end of the support, a rod extending lengthwise of the support, and having its upper end curved and extending through the slot of said member, a pair of jaws pivoted to the member, and links pivoted to the jaws and pivoted to said curved upper end of the rod.

1,350,332. RUBBER HEEL. JOHN R. PETTIT, New York, N. Y. Filed Jan. 3, 1919. Serial No. 269,497. 2 Claims. (Cl. 36—35.)



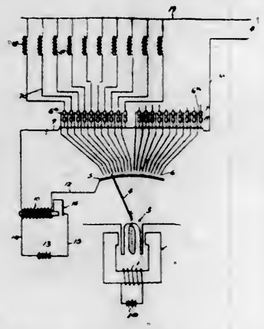
2. In a shoe heel, in combination, a resilient member, a U-shaped metallic plate enclosing said member, and means passed through the outside of said plate for securing said plate and said member to said heel.

1,350,333. MATTRESS. EMILIE ERIK, née RADSTAAKE, New York, N. Y. Filed June 11, 1919. Serial No. 303,418. 1 Claim. (Cl. 5—13.)



A sanitary appliance for invalids, comprising in combination a properly supported mattress provided with an opening having a vertical wall at the upper end and the other walls tapering upwardly from approximately the middle of their height, a metallic frame having a groove on three of its sides and a rim on the one remaining side, secured to the lower edge of aforesaid openingg, a pan adapted to slide within aforesaid groove and to register with aforesaid opening, and a cover corresponding in shape to the upper part of the opening in the mattress.

1,350,334. METHOD OF AND MEANS FOR ESTABLISHING ELECTRICAL CIRCUITS. ALBERT A. RADTKE, Chicago, Ill. Filed Sept. 8, 1919. Serial No. 322,449. 9 Claims. (Cl. 175—320.)



1. The hereindescribed method of causing low tension current to flow in a circuit having a plurality of gaps, which consists in inducing a high potential discharge through that part of the circuit having the gaps by decreasing the size of one of the gaps, and thus breaking down the resistance of the other gap and establishing an arc.

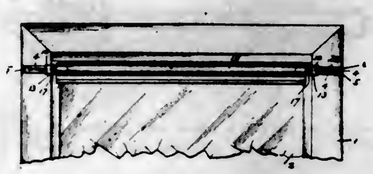
1,350,335. SUPPORT FOR REINFORCING-RODS. GEORGE H. REED, Newark, N. J. Filed Apr. 23, 1920. Serial No. 375,966. 3 Claims. (Cl. 72—122.)



1. A reinforcing rod support comprising a series of blocks of cementitious material, a continuous strand around which the blocks are molded at spaced intervals and means on each block for holding a reinforcing rod.

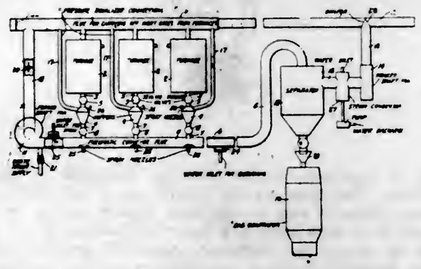
1,350,336. WINDOW-CURTAIN FIXTURE. JOSEPH J. REILLY, Newark, N. J. Filed Mar. 20, 1919, Serial No. 283,851. Renewed July 9, 1920. Serial No. 395,120. 3 Claims. (Cl. 156—24.)

1. A fixture as characterized comprising, a plurality of horizontal bars, each adapted for disposition in service at one side of a window opening, the said bars having parallel spaced sections, one of said sections being longer than the other to rest in parallel relation to the window frame, both of said sections having offset portions to



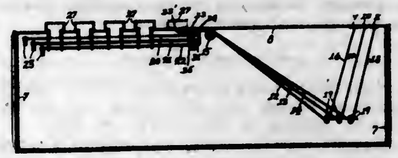
form securing members for mounting the sections and the bars on the window frame; and a sliding, adjustable bracket adapted for pivotally mounting the rotary window-sash roller.

1,350,337. PROCESS AND APPARATUS FOR CONVEYING AND TREATING MATERIALS. GEORGE I. RHODES, Glen Ridge, and HAROLD V. COES, Montclair, N. J. Filed Nov. 13, 1917. Serial No. 201,818. 31 Claims. (Cl. 202—5.)



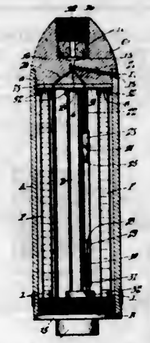
1. The process of conveying solid materials which are likely to be burned or oxidized in air, which consists in introducing such solid material into a current of gaseous conveying medium coming in a different path at such speed as to pneumatically convey the solid material so introduced, said gaseous conveying medium being substantially free of air and substantially inert with respect to said solid material during the conveyance, and collecting the material at the end of the conveyance substantially free of said inert conveying medium.

1,350,338. TOY. BRAYTON G. RICHARDS, Chicago, Ill. Filed Nov. 22, 1916. Serial No. 132,834. 15 Claims. (Cl. 35—9.)



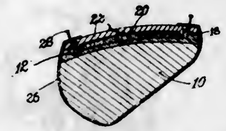
1. A construction of the class described comprising a body; a movable object on said body; a plurality of controlling members movably mounted on said body and associated with said object; means for assembling and dispersing said members on said body; and means operable through an assembled set of said members for moving said object, substantially as described.

1,350,339. SHELL. JAMES EDWIN RICHARDS, Horton township, Renfrew county, Ontario, Canada. Filed Oct. 13, 1919. Serial No. 330,315. 4 Claims. (Cl. 102—29.)



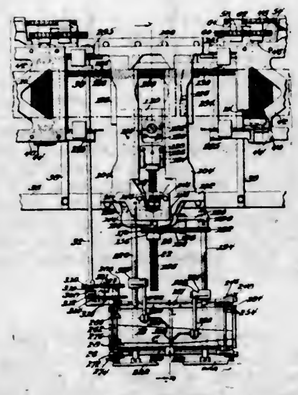
3. A shell, comprising a base, a casing, a firing tube in the casing having a firing piston adapted to be propelled by powder therein, springs holding the firing piston in normal position, a spring held plunger adapted to be propelled by the firing piston, a cap adapted to be exploded by the spring held plunger on impact by the piston, a powder tube in communication with the cap, and a shrapnel chamber in communication with the firing tube.

1,350,340. SHOE-LAST. JOHN C. SCHELTER, Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Oct. 1, 1918. Serial No. 256,443. 2 Claims. (Cl. 12—133.)



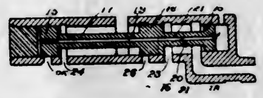
1. A shoe last having a waterproof bottom and having a cavity in said bottom constructed and arranged to hold a moistened pad.

1,350,341. WOODWORKING-MACHINE. JOEL F. SHEPPARD, 2d, and WILLIAM D. FLETCHER, Dover, N. H. Filed Dec. 21, 1918. Serial No. 267,815. 20 Claims. (Cl. 144—144.)



1. A wood working machine having, in combination, a planing cutter, means for effecting relative feeding movements of the cutter and the work, means associated with the respective ends of the cutter for adjusting the cutter laterally with respect to the work and for tilting the cutter toward and from said work.

1,350,342. VALVE FOR PERCUSSIVE TOOLS. WILLIAM A. SMITH, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 25, 1919. Serial No. 333,232. 5 Claims. (Cl. 121—27.)

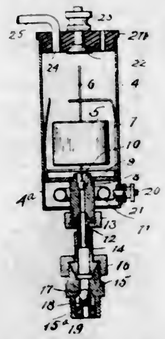


1. In a percussive tool, a valve chest, a valve adapted to operate therein, a head at one end of said valve controlling an auxiliary exhaust port, a head intermediate the ends of the valve controlling an admission port and an auxiliary exhaust port, said valve being forced in one direction by constant pressure against one end face and thrown to its opposite position by a fluctuating pressure against an opposite end face.

1,350,343. PROCESS FOR THE MAKING OF AN INSULATING AND PROTECTIVE COATING. EDWARD R. STOWELL, Portland, Ind., assignor to Stowell Fireproofing Company, Manistee, Mich., a Corporation of Delaware. Filed July 1, 1918, Serial No. 242,852. Renewed Apr. 10, 1920. Serial No. 373,006. 2 Claims. (Cl. 134—45.)

2. The herein described process for the making of a refractory and protective coating by combining sodium hydroxid with water, adding to each gallon of this lye solution approximately eight pounds of powdered carbid of silicon, incorporate well, let stand in covered container of sufficient capacity until the hydrogen gas formed by the action of the free alkali on the free silicon in the composition is exhausted, stirring the foam like composition which will result until it is reduced to the original quantity and then adding one pint of 50 to 54 degree sodium silicate to each gallon of the composition as thus formed.

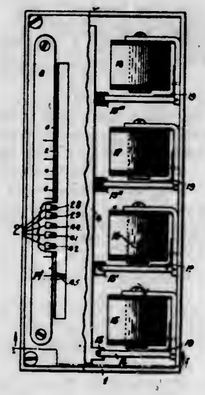
1,350,344. APPARATUS FOR PRIMING ENGINES. FREDERICK D. SWEET, Cleveland, Ohio. Filed July 12, 1917. Serial No. 180,031. 11 Claims. (Cl. 123—187.5.)



1. The combination with an internal combustion engine of a priming device comprising a receptacle adapted to be mounted adjacent the engine and in communication with the fuel supply for the engine, means for controlling said

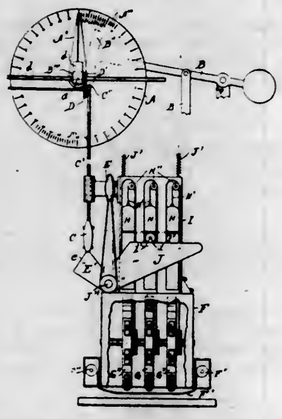
communication, a valve controlling the outlet from said receptacle, a float within the receptacle said float being operatively connected with the valve whereby as fluid fuel is supplied to the receptacle the float will rise and open the valve.

1,350,345. TELEMETRIC DEVICE. HARRY L. TANNER, Brooklyn, N. Y., assignor, by mesne assignments, to Tanner Engineering Company, Inc., Brooklyn, N. Y. Filed June 7, 1918. Serial No. 238,747. 7 Claims. (Cl. 177—351.)



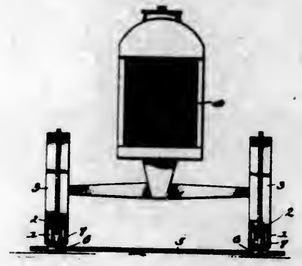
1. In a changeable exhibitor, a plurality of movable permutation elements, a plurality of notches in each element, the notches in the elements being differentially arranged, a plurality of normally invisible indicating members biased toward said elements, and means for moving said elements to cause said members to advance selectively into said notches to render visible an indication.

1,350,346. LEATHER-MARKING APPARATUS. ROY E. TOUCHETT, Fond du Lac, Wis. Filed Oct. 3, 1918. Serial No. 256,721. 5 Claims. (Cl. 101—42.)



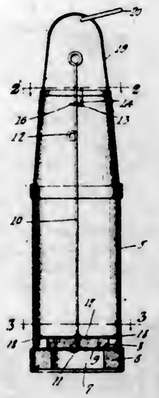
1. Leather marking apparatus, including the combination with adjustable mark applying mechanism, of an indicator dial provided with a pointer and an annular row of circular contacts, a selective switch, movable along the contacts, a manually operable lever, operably connected to move the pointer into engagement with a selected contact, and electro-magnetic mechanism adapted to utilize the selected contacts to control the adjustment of the mark applying mechanism.

1,350,347. POWER-UNIT-LOCATING MEANS. EMMET L. VAN DOLSEN, Shelbyville, Ind. Filed June 16, 1919. Serial No. 304,503. 4 Claims. (Cl. 180—53.)



1. A power block for use with tractors comprising a spacing member, a pair of shoes adjustably mounted on the spacing member and provided with faces conforming to the treads of the wheels of the tractor and means adjustably securing the shoes on the spacing member.

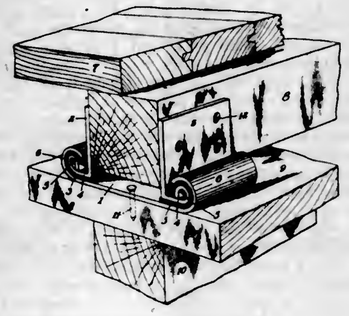
1,350,348. WELL-BUCKET. JAMES A. VAN PELT, Morrilton, Ark., assignor of one-half to Herbert N. Van Pelt, Morrilton, Ark. Filed May 17, 1920. Serial No. 381,940. 4 Claims. (Cl. 166—19.)



1. A well bucket including a relatively long body portion, a bottom member secured within the body portion and having a central opening, a controlling rod extending into the body portion and carrying a valve member on one end thereof adapted to close the central opening, means for supporting the upper end of the controlling rod against lateral movement, and means supported adjacent the valve member for preventing lateral movement of the valve member.

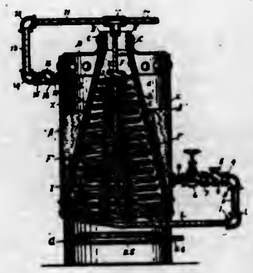
1,350,349. SOUND-INSULATING SUPPORT. ADOLPH FRED WALTHER, Cleveland, Ohio. Filed Mar. 26, 1919. Serial No. 285,332. 4 Claims. (Cl. 20—6.)

2. An insulating support for building elements, consisting of the combination of a base member having lateral upwardly turned-in side portions; two side members extending angularly from said base member, each having an outwardly extending portion surrounded by the lateral



edge portions respectively of said base member; and sound-insulating material interposed between the adjacent surfaces of said base and side members.

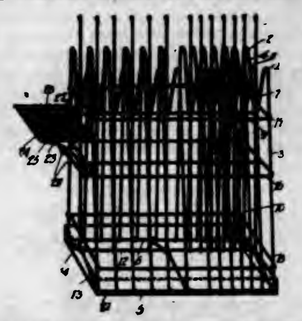
1,350,350. STEAM PRODUCTION. CHARLES M. WILCOX, New Paris, Ohio, assignor of one-half to Charles H. Harris, New Paris, Ohio. Filed Mar. 20, 1919. Serial No. 283,872. 5 Claims. (Cl. 122—167.)



1. A construction of the nature set forth comprising a tank forming a water jacket, steam generating coils located in the hollow of the tank, a pipe-line connecting one termini of the coils with the interior of the tank below the water level, a check-valve interposed in said pipe-line to prevent back pressure from the coils to the tank, a pipe-line connecting the other termini of the coils with the interior of the tank above the water level, a check-valve interposed in said second pipe-line to prevent back pressure from the tank into the coils, and means for taking usable pressure from the coils, all substantially as shown and described.

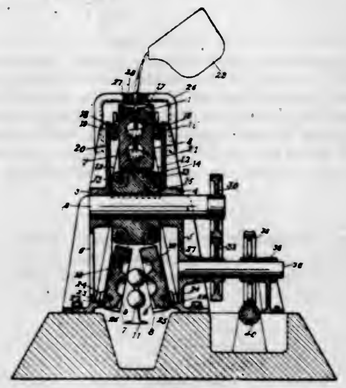
1,350,351. TABLEWARE-DRAINER. ARTHUR ABBOTT, Toronto, Ontario, Canada. Filed Sept. 2, 1919. Serial No. 321,265. 3 Claims. (Cl. 141—11.)

2. A tableware drainer comprising a frame consisting of two parallel rows of spaced looped members, the members of each row presenting relatively short inner arms and relatively long outer arms, the two rows of inner arms being connected together and the two rows of outer



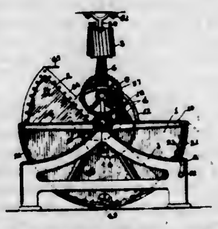
arms being spaced apart, and means for supporting dishes in an upright position between the said outer arms.

1,350,352. CASTING-MACHINE. DAVID G. ANDERSON, Columbus, Ohio, assignor to The Ohio Malleable Iron Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 20, 1916. Serial No. 126,755. 4 Claims. (Cl. 22—75.)



1. In a casting machine, the combination of a supporting frame, a horizontal shaft journaled in the frame, a spider fixed to the shaft, a plurality of oppositely disposed mold blocks hinged to the spider, molds formed in adjacent faces of the blocks, rollers carried by the frame adapted to engage the mold blocks to close the molds, studs fixed to the mold blocks adapted to engage a flange of the frame to open the molds, and means to rotate the shaft.

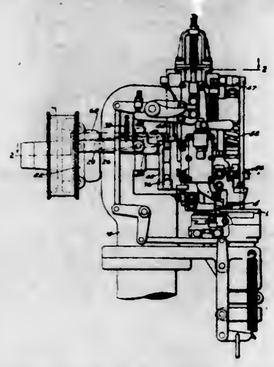
1,350,353. WASHING-MACHINE. JOSEPH H. BAIR, Haddonfield, N. J. Filed Dec. 27, 1918. Serial No. 268,508. 7 Claims. (Cl. 68—37.)



1. In a washing machine the combination of an agitator, an ejection and suction device constituting an oscil-

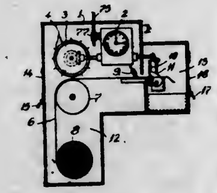
lating sliding guide for the agitator, and means for imparting motion of translation in a curved path to the agitator.

1,350,354. SOLE-FITTING MACHINE. FREDERIC E. BERTRAND, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 10, 1916. Serial No. 83,253. 19 Claims. (Cl. 12—17.)



2. An insole chaneling machine, having in combination, a channeling tool, a sole support movable toward and from said tool, driving mechanism, a feeler mounted to engage the sole and to be moved thereby when the sole is moved by said support, and connections whereby a movement of said feeler produced by its engagement with the sole modifies the operation of said driving mechanism.

1,350,355. RECORDING APPARATUS FOR RAILWAY-SIGNALS. LEON S. BRACH, New York, N. Y. Filed Mar. 6, 1913. Serial No. 752,405. 19 Claims. (Cl. 234—27.5.)



1. In a device of the class described, a signal member, a movable pencil controlled by said signal member, a movable tape disposed for being marked upon by said pencil, a casing inclosing all of said parts and having an opening therein at a point adjacent a portion of the tape whereby access is given into the casing for manually impressing a record upon the tape, said casing also having an opening disposed adjacent said pencil through which the marked tape is projected, and a housing arranged about said second opening for receiving and inclosing the projected portions of the tape, said housing having an entrance opening controlled by secret fastening means.

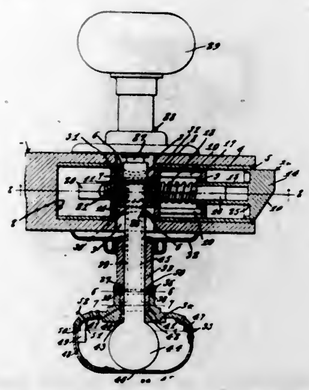
2. In a device of the class described, the combination with a plurality of railway tracks, of a plurality of recording members one for each of said railway tracks, and means associated with said tracks and with said recording members respectively whereby the passage of a vehicle over one of said tracks will effect an operation only of the recording member associated with that track, a record tape arranged to be operated upon by said recording members, and means whereby each of said recording members will be caused to inscribe a mark upon said record tape extending longitudinally of said record tape and to impress marks upon said record tape extending transversely of said record tape at opposite ends of said longitudinally extending mark.

3. In a device of the class described, the combination with a plurality of railway tracks, of a plurality of normally inoperative recording members one for each of said railway tracks, means associated with said tracks and with said recording members respectively, whereby the passage of a train over any one of said tracks will effect a movement into operative position of the recording member associated with that track, a record receiving member adapted to be marked upon by said recording members only when said recording members are moved into operative position, a signal member, and a recording member associated with said signal member disposed for marking continuously upon said record receiving member.

4. In a device of the class described, a signal member, a record impressing member controlled by said signal member, a record receiving member disposed for being operated upon by said record impressing member, means for moving parts of said record receiving member away from said record impressing member, and time controlled means for severing said moved parts.

5. In a device of the class described, a signal member, a record impressing member controlled by said signal member, a record receiving member disposed for being operated upon by said record impressing member, means for moving parts of said record receiving member away from said record impressing member, time controlled means for severing said moved parts, and means for guarding said severed parts.

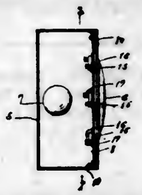
1,350,356. LOCK. IRA D. BRILL, Marlington, W. Va. Filed Feb. 28, 1920. Serial No. 361,974. 2 Claims. (Cl. 70—91.)



1. In a device of the class described, a barrier; a bolt slidable therein; an inner knob shaft journaled in the barrier; a pinion carried by the inner knob shaft; an outer knob shaft journaled in the barrier and in the pinion; a key insertible into the outer knob shaft and constituting mechanism for connecting the outer knob shaft with the pinion: oppositely disposed slides mounted for reciprocation in the barrier and having racks coöperating with the pinion: and interengaging elements on the slides and on the bolt whereby either slide may retract the bolt when said slide is retracted.

1,350,357. RAILWAY SIGNAL-LAMP. CHARLES H. COBB, Great Falls, Mont. Filed June 21, 1918. Serial No. 241,262. 3 Claims. (Cl. 240—22.)

1. The combination with a lamp having a source of light and a bull's eye in one side thereof; a plate arranged in the lamp and interposed between the source of light and the bull's eye, said plate having an opening



therein in alinement with the bull's eye; segments of colored glass arranged in the opening; and means to retain the segments of colored glass in the opening.

1,350,358. TESTING SYSTEM. THOMAS H. S. CONE, Boundbrook, N. J. Filed Apr. 17, 1919. Serial No. 290,752. 15 Claims. (Cl. 73—51.)

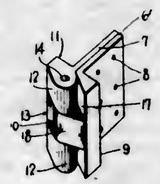


1. The process of testing a line of fluid-filled tubing for leaks or obstructions therein; consisting of closing an end of said line and of varying the pressure or density of the fluid in said line to a predetermined extent, thereupon opening said closed end through a vent restricted in accordance with a previously determined standard and observing the time required for a given degree of restoration of the normal pressure of said fluid.

1,350,359. ALLOY. HUGH S. COOPER, Cleveland, Ohio, assignor, by mesne assignments, to Zircon Tool & Alloy Corporation, a Corporation of New York. Filed Aug. 22, 1918. Serial No. 250,929. 3 Claims. (Cl. 75—1.)

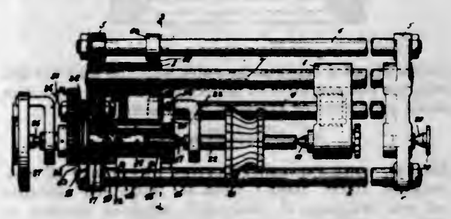
1. An alloy for high speed cutting tools containing a preponderating amount of nickel, zirconium one-half to two per cent., and an amount of aluminum and silicon at least double the amount of zirconium.

1,350,360. HINGE. ROBERT W. CRANE, Los Angeles, Calif. Filed July 30, 1919. Serial No. 314,191. 1 Claim. (Cl. 16—107.)



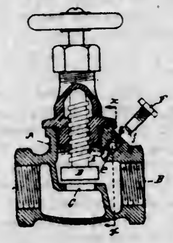
A hinge of the character set forth embodying two leaf sections, each of said sections being provided with a flange on its inner vertical edge, one of said sections having an inner beveled face, a knuckle formed on said beveled face of the flange at a point intermediate the upper and lower ends thereof, a pair of knuckles formed on the flange of the other leaf section providing therebetween an intervening space into which engages the knuckle of the first mentioned section, the inner face of the flange of the second mentioned section at a point between the knuckles being beveled, each of the first and last mentioned knuckles being correspondingly rounded or beveled to conform with the beveled confronting inner faces of the vertical flanges of said sections and engaging therewith.

1,350,361. RELIEVING ATTACHMENT FOR LATHES. OTTO CRONAU, New York, N. Y. Filed July 23, 1919. Serial No. 312,742. 7 Claims. (Cl. 82—19.)



1. A relieving attachment for lathes comprising a stationary frame adapted to be arranged between and supported by the head and tail stocks of a lathe, a work support oscillatably suspended in said frame, means for continuously rotating a work piece mounted in said support, and means driven by the head stock spindle for oscillating said support to intermittently relieve the work from engagement with the tool.

1,350,362. STOP AND WASTE COCK. GEORGE W. DECKER, Erie, Pa., assignor of one-third to Edward A. Kern and one-third to George A. Friedricks, Erie, Pa. Filed Oct. 30, 1919. Serial No. 334,510. 1 Claim. (Cl. 277—57.)

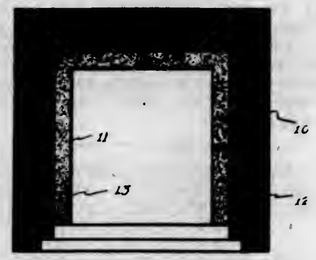


The combination in a stop and waste-cock, including a housing having a valve-seat opening therein, and a valve adapted to seat thereon, said housing having an axially inclined vent-opening therein, and discharge opening at right angles to said vent opening, an internal-valve-seat-shoulder in said vent-opening below said discharge opening, and a screw threaded plug adapted to seat on said valve-seat opening, substantially as set forth.

1,350,363. HEAT-RESISTING SAFE OR CABINET. RALPH H. DICK and CARL F. WOLTERS, Marietta, Ohio, and ROSER B. SUTTER, Newark, N. J., assignors to The Safe-Cabinet Company, Marietta, Ohio, a Corporation of Ohio. Filed Mar. 28, 1917. Serial No. 158,057. 3 Claims. (Cl. 109—2.)

1. A fire-heat resisting document-preserving cabinet constructed with inner and outer sheet metal walls and having an inner wetting insulation disposed outside said in-

ner sheet metal wall and comprising material which under heat gives off steam and operates to retard the entrance of heat to the interior of the safe, and a relatively dry in-



sulation disposed between the outer wall and said wetting insulation and operative to protect said wetting insulation against premature or excessive vaporization.

1,350,364. ORE CONCENTRATION. BENJAMIN H. DOSENBACH, Butte, Mont.; Edna M. Dosenbach executrix of said Benjamin H. Dosenbach, deceased, assignor to Edna M. Dosenbach. Filed Nov. 16, 1917. Serial No. 202,266. 11 Claims. (Cl. 83—85.)

1. In a process of concentrating ores the operations of subjecting a modifying agent to the solvent action of water to remove water soluble matter therefrom, introducing the remainder of said agent in the gaseous state into an ore pulp thereby effecting flotation of certain constituents of the ore, and separating the floated constituents from the remainder of the ore.

1,350,365. ART OF MAKING EMBOSSED DESIGNS. LOUIS H. FUELLING, New York, N. Y., assignor to The United States Printing and Lithograph Co., Brooklyn, N. Y., a Corporation of Ohio. Filed Mar. 6, 1918. Serial No. 220,847. 4 Claims. (Cl. 41—25.)

1. The improvement in the art of making embossed designs which consists in mounting a piece of fabric in a fixed position on a pressure resisting backing, rendering the fabric pressure resisting, making an impression from the stiffened fabric, while mounted, upon a softened plastic mass by applying relatively high pressure to the backing, the fabric and the plastic mass, removing the fabric and its backing, causing the plastic mass to become rigid, preparing a die therefrom, preparing a photographic reproduction of the fabric as mounted upon its backing at a time prior to the said pressure stage, printing an image thereof upon paper and impressing the die upon said paper in registry with the said print.

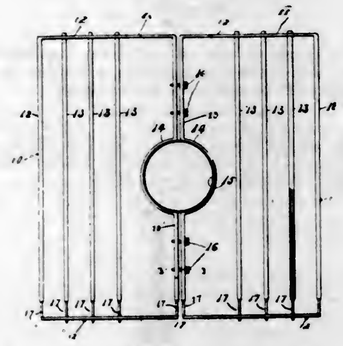
1,350,366. METHOD AND APPARATUS FOR CONDITIONING PREPARED FABRIC. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 1, 1918. Serial No. 260,637. 20 Claims. (Cl. 91—55.)



5. Apparatus of the class described having, in combination, a closed casing having one side made of porous material, a water container opening into the casing, a heating device between the water container and said side, a granular material surrounding the heating device.

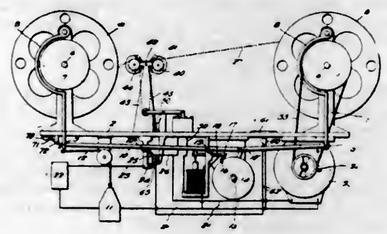
15. The method of conditioning prepared fabric which comprises applying to the uncoated side of the fabric heat and a relatively slight degree of moisture diffused through a porous material.

1,350,367. CLOTHES-DRIER. HIRAM W. GIDDINGS, Mansford, Wash. Filed July 18, 1919. Serial No. 311,697. 2 Claims. (Cl. 126—341.)



1. A clothes drier for attachment to a vertical support comprising a pair of sections each having end members, telescoping connecting bars between the end members, the innermost of the connecting bars being laterally bowed, and clamping screws engaged through the said innermost bars at opposite sides of the bowed portions.

1,350,368. TESTING APPARATUS. JOHN A. D. HERRINGTON, Tupelo, Miss., assignor of one-fourth to Elie B. Hulsey, Earle, Ark., one-fourth to Wiley A. Blair and one-fourth to George H. Hill, Tupelo, Miss. Filed June 1, 1917. Serial No. 172,315. 8 Claims. (Cl. 73—51.)

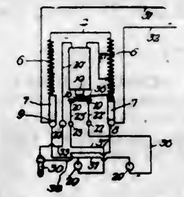


1. In apparatus for testing the margins of strips, web or films, means for moving the strip, means for interrupting the movement, means for normally holding said interrupting means, and means including spaced levers having rollers engaging the margins of the strip for releasing, on the existence of a fracture in the strip, said interrupting means.

1,350,369. CIRCUIT-CONTROLLING MECHANISM. ACHILLES DE KHOTINSKY, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 29, 1916. Serial No. 94,512. 5 Claims. (Cl. 175—375.)

1. In a circuit-controlling mechanism, the combination of a pair of fixed contacts spaced apart, a contact member adapted to engage said contacts adjacent its ends and

pivotally supported between its ends, magnetic means for actuating said contact member, and means for supplying



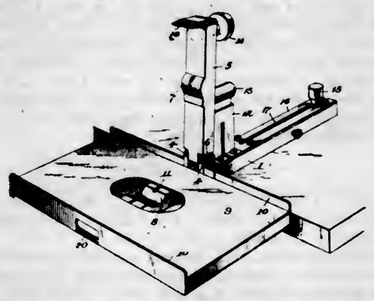
said magnetic means with a relatively small quantity of current from the supply to the circuit controlled by said mechanism but at a greatly reduced voltage.

1,350,370. SPRING-WHEEL. WALLA LEVISTON and JOHN PERRY, Kansas City, Mo. Filed Nov. 7, 1918. Serial No. 261,580. 1 Claim. (Cl. 152—32.)



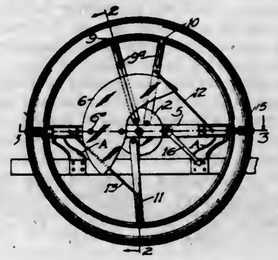
A spring wheel comprising a hub and spokes, a rim spaced from the felly, springs arranged in circular series about the felly and the rim and having intermediate loops projecting laterally between the felly and the rim, said springs being arranged in pairs in transverse relation, the loops in each spring being in the form of a double compound curve providing a contracted loop having alining outwardly and inwardly projecting ends lying against the outer edges of the rim and felly, and circular clamping plates extending around the felly and rim on opposite sides, between which and the rim and felly the respective ends of the springs are secured.

1,350,371. SHEET-UNITING DEVICE. ARTHUR W. MCCURDY, Victoria, British Columbia, Canada. Filed June 12, 1917, Serial No. 174,303. Renewed Dec. 9, 1919. Serial No. 343,644. 6 Claims. (Cl. 1—46.)



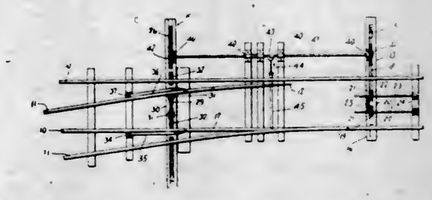
1. In a device for uniting sheets or films of material, the combination of a grooved bar having a seat or depression intersecting the groove; a sheet-supporting bed or table carried by said bar and having an opening to expose the depression in the bar; a second bar movable toward and from the first, provided with a swell or boss to fit the depression in the grooved bar, and slotted to form a continuation of the groove therein, a magazine freely communicating with said groove and adapted to contain a series of pins in immediate contact with one another; and a slide or plunger movable in the groove and serving to force a pin placed therein, lengthwise of the groove, across the depression, and through sheets clamped between said bars.

1,350,372. COMBINED SPARE-TIRE SUPPORT AND RIM-REMOVING APPARATUS. ROBERT L. MAPSON, Los Angeles, Calif., assignor of one-third to Lorenzo Sperbeck and one-third to E. I. Wheeler, Los Angeles, Calif. Filed Oct. 1, 1919. Serial No. 327,755. 7 Claims. (Cl. 224—29.)



1. In an apparatus of the class described, a supporting member, a member revolubly mounted centrally thereon, a pair of spaced clamp members pivoted to said revolubly mounted member and their outer ends provided with clamps adapted to clamp the free ends of a vehicle rim, means for supporting one of said clamp members intermediate its ends, another clamp member pivoted to said revoluble member opposite to the pivotal mounting of the other clamp member and its free ends adapted to engage the rim intermediate its ends for supporting the same.

1,350,373. RAILROAD-SWITCH. LUDWIK MARSZALEK, Passaic, N. J. Filed May 8, 1920. Serial No. 379,864. 3 Claims. (Cl. 246—357.)



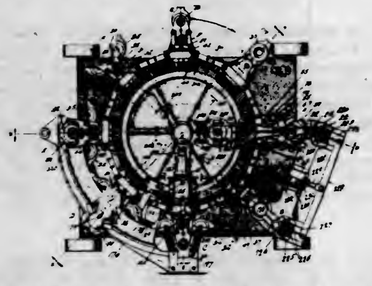
1. The combination with a railway switch, of a car actuated switch setting mechanism located in advance of the switch and including a rock shaft disposed longitudinally of the track, means for connecting the switch points to the rock shaft, whereby operation of the latter will move the switch points to set the switch, a transversely movable rack bar for operating the rock shaft, a pivoted T-shaped lever located between the rails of the track, spaced parallel levers having one of their ends pivotally secured between the rails and extending longitudinally of the latter, right angularly disposed downwardly extending arms rigidly secured to said levers and engageable in notches provided in the T shaped bar and means located beyond the opposite end of the switch for returning the latter to normal position.

1,350,374. CINEMATOGRAPH. RUDOLPH B. MICHALEK, Newark, N. J. Filed June 13, 1919. Serial No. 303,900. 7 Claims. (Cl. 88—17.)



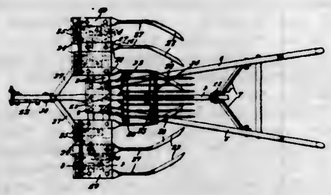
1. A cinematograph comprising a casing, a fixed guide for a film, a movable film guide adapted to be held against the fixed guide, a sprocket projecting through the guides, the guides having apertures therein for framing pictures on the film and having slots for the sprocket, the front of the casing having an entrance for light, the narrow side of the casing having an opening substantially in line with the apertures of the film guides, and means for imparting a step-by-step movement to the sprocket.

1,350,375. GLASS-WORKING MACHINE. EDWARD MILLER, Columbus, Ohio, assignor to Chapman J. Root, Terre Haute, Ind. Filed Nov. 8, 1917. Serial No. 200,865. 27 Claims. (Cl. 49—5.)



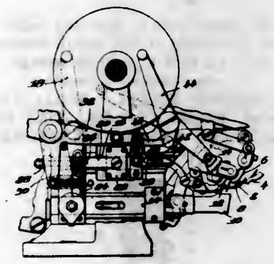
1. In a glass-working machine, the combination with a movable table, molds comprising relatively movable parts carried by said table, a reciprocable table actuator, a primary air valve shifted by said actuator, a pneumatically operated secondary air valve controlled by the primary air valve, air-pressure motors controlled by the secondary valve, and connections between said air-pressure motors and the molds.

1,350,376. COMBINED HARROW AND CULTIVATOR. JAMES W. MONTGOMERY, Thomasville, Ga. Filed Jan. 26, 1920. Serial No. 354,074. 4 Claims. (Cl. 97—10.)



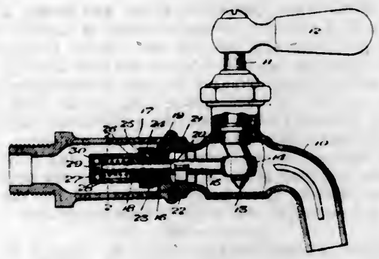
1. The combination with a beam, a cross strip connected thereto, and depending frames secured to the cross strip, of a bottom plate secured to each frame, rearwardly extending blades carried by each plate, said blades having obliquely disposed cutting edges, a breast plate adjustably connected to each bottom plate, and means carried by each breast plate for cutting downwardly into the soil.

1,350,377. INSEAM SEWING-MACHINE. ALFRED R. MORRILL, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 26, 1918. Serial No. 219,313. 9 Claims. (Cl. 112—39.)



1. An inseam sewing machine, having, in combination, a needle, a channel guide, a back gage, and mechanism for forcing the back gage against the work under spring pressure prior to the penetration of the work by the needle and for positively advancing the gage during the retraction of the needle.

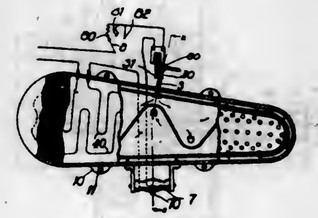
1,350,378. FULLER-BALL. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Nov. 12, 1919. Serial No. 337,487. 8 Claims. (Cl. 251—44.)



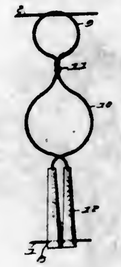
1. In combination, a valve stem, a sleeve having a through opening of like diameter throughout its length adapted to receive said stem, means on the stem for limiting forward movement of said sleeve thereon, an elastic valve body upon said sleeve, a flange carried by the sleeve and against which the valve seat end of the elastic valve body engages, a ferrule carried by said sleeve and encircling the inner end of said elastic body, and yieldable means upon said stem and engaging said sleeve for urging said sleeve forward on said stem.

1,350,379. CLOTHES-PRESSING MACHINE. CHARLES R. NELSON, Seattle, Wash. Filed Apr. 4, 1919. Serial No. 287,531. 1 Claim. (Cl. 68—9.)

A clothes pressing head having a perforated pressing face, two slightly separated plates adjacent the pressing face, and provided with a steam supply connection and forming a steam distributing chamber, that one of said plates which is the nearer to the pressing face being perforated and spaced from the perforated pressing face, a sinuous partition extending lengthwise of and within the steam distributing chamber, and stopping short of each end thereof, the perforations leading from the steam distributing chamber to the perforated pressing face being positioned at the bottom of the angles formed by the sinuosities of said partition, and a heating element in direct contact with the unperforated plate of the steam distributing chamber.

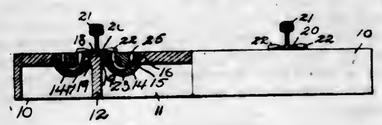


1,350,380. CLOTHESLINE. FRANK C. NELSON, Clarksburg, W. Va., assignor of one-half to George W. De Witt, Clarksburg, W. Va. Filed Mar. 20, 1920. Serial No. 367,325. 3 Claims. (Cl. 68—3.)



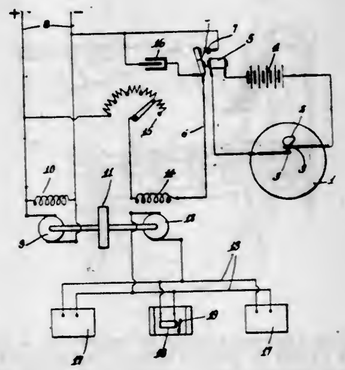
1. A clothes pin comprising a resilient wire body having the strands of wire twisted to form an attaching loop at one end, a larger loop formed at the lower end, the extremities of the strands of wire crossing one another at the lower end of said larger loop and terminating in parallel ends and an upwardly tapered wooden jaw engaged with each parallel end.

1,350,381. RAILROAD-TIE. GEORGE F. A. OCHS, Newark, N. J. Filed Oct. 17, 1919. Serial No. 331,262. 5 Claims. (Cl. 238—59.)



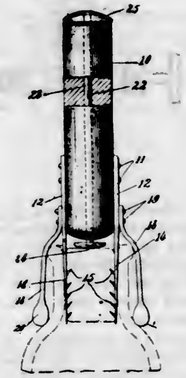
1. A railroad tie having recesses flanking the rail position, readily removable inserts in said recesses and partly covered by the rail, said inserts having means therewith for securing them to the rail, the inserts and tie having coacting means for holding the inserts in place.

1,350,382. ELECTRIC CONTROL SYSTEM. PERCY R. OWENS, Mount Kisco, N. Y. Filed Aug. 3, 1918. Serial No. 248,180. 5 Claims. (Cl. 58—24.)



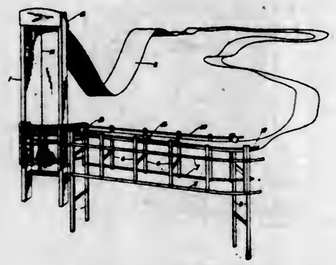
1. In an electric control system, the combination of a plurality of devices to be actuated, a circuit to which said devices are connected, a generator connected to supply current to said circuit, having a separately excited field, means for continuously rotating the armature of said generator, a power circuit for said generator field, adapted to be closed and opened, and means for making and breaking said last-named circuit at desired intervals.

1,350,383. CORK-EXTRACTOR. JOHN PALAHNIUK, Brule Mines, Alberta, Canada. Filed Mar. 14, 1919. Serial No. 282,661. Renewed June 2, 1920. Serial No. 386,048. 2 Claims. (Cl. 65—47.)



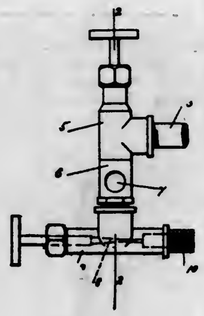
1. In a cork extractor, the combination with a cylinder handle, of a pair of resilient arms engaged therewith, said arms extending below and adapted to enter a bottle neck, a plurality of upturned spurs formed integrally with said resilient arms, means for guiding said arms as they are forced into the bottle, a rod slidable centrally in said handle and a convex head formed at the lower end of said rod adapted to contact with the upper end of the cork whereby it may be forced upon said spurs.

1,350,384. GAME. GEORGE HENRY PARKER, Stamford, Conn., assignor to Christine R. Parker, Stamford, Conn. Filed Aug. 12, 1919. Serial No. 317,027. 10 Claims. (Cl. 46—57.)



2. In an amusement device, in combination, a circuitous runway having an elevated starting end and an adjacent but lower discharge end, means to elevate balls from said discharge end to said starting end, and means to indicate the order of arrival of the balls at said discharge end.

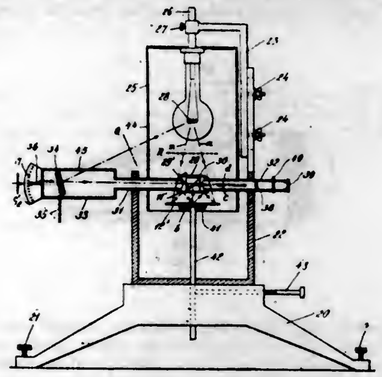
1,350,385. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. LOUIS P. PETERSON, Enderlin, N. D. Filed Apr. 14, 1920. Serial No. 373,773. 1 Claim. (Cl. 277—67.)



A moistening attachment for an internal combustion engine, comprising an upper valve casing provided with an inlet for water and a vertically arranged outlet, a needle valve controlling the said outlet, an observation chamber secured to the lower end of the upper valve casing and provided with a sight window, a lower valve casing provided with an inlet for the water which falls drop by drop through the observation chamber, said lower valve casing being secured to the lower part of the observation chamber and provided with a horizontally arranged outlet for water and with means for securing it to an engine, and a needle valve controlling the water outlet of the lower casing.

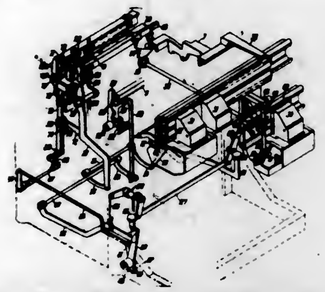
1,350,386. COLORIMETRY OF PAINTS AND PIGMENTS. AUGUST HERMAN PFUND, Baltimore, Md. Filed Jan. 14, 1920. Serial No. 351,423. 13 Claims. (Cl. 88—14.)

1. A method of accentuating tints which comprises subjecting a beam of light from an appropriate source to a plurality of reflections from surfaces of the tint to be accentuated, and segregating the multiply-reflected beam



of light and comparing the same with an appropriate standard; substantially as described.

1,350,387. COMBINED TYPEWRITING AND COMPUTING MACHINE. HENRY L. PITMAN, East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Oct. 25, 1917. Serial No. 198,375. 48 Claims. (Cl. 235—59.)

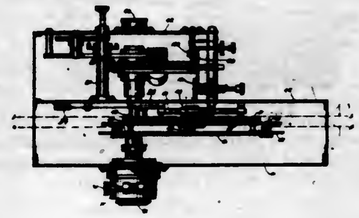


4. The combination with a typewriter carriage, of a computing unit having two primary elements, one traveling relatively to the other to effect a step-by-step movement, automatically-interrupted connections between said traveling element and said typewriter carriage, enabling a synchronized movement of said traveling element with said typewriter carriage solely for a computing zone, a keyboard including numeral keys for effecting a combined typewriting and computing operation, and means for recompleting the connection automatically interrupted between said traveling element and said typewriter carriage from said keyboard.

11. The combination with a typewriter carriage, of a computing unit having a traveling element connectible to travel with said typewriter carriage, back-spacing mechanism for said typewriter carriage, and connections enabling a traversing movement of said traveling element by said back-spacing mechanism independently of said carriage.

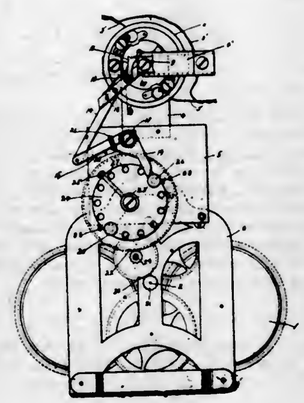
1,350,388. MOVING-PICTURE MACHINE. JOSEPH PODJEVIN, Schenectady, N. Y. Filed Jan. 14, 1915. Serial No. 2,116. 29 Claims. (Cl. 88—18.8.)

1. In a moving picture apparatus the combination of a movable carrier for a picture bearing element or a sensitive plate, mechanism for moving said carrier step by step, a shutter, mechanism for intermittently moving said



shutter, and means for interlocking said mechanisms to cause said carrier and said shutter to move alternately.

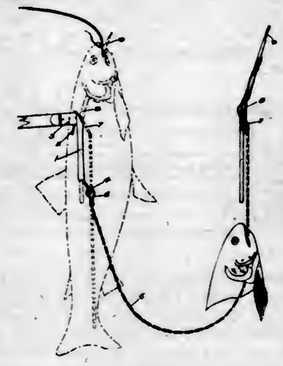
1,350,389. TIME-CONTROLLED MECHANISM FOR OPERATING ELECTRIC SWITCHES. THOMAS WINFRED SOUTH, De Kalb, Ill., assignor of one-half to Roy A. Gilbertson, De Kalb, Ill. Filed Mar. 6, 1917. Serial No. 152,614. 3 Claims. (Cl. 200—36.)



1. A mechanism for controlling a rotary electric switch comprising a clock work; an oscillatory arm adapted, when actuated, to operate said switch; means for actuating said arm, said means comprising a rotatable shaft, a disk mounted on said shaft, so as to be adjustable thereon around its axis; means for securing said disk in its positions of adjustment on said shaft; a plurality of engaging elements on said disk adapted, upon rotation of the latter, to engage with and actuate said arm; and an operative connection between said clock work and said disk, substantially as described.

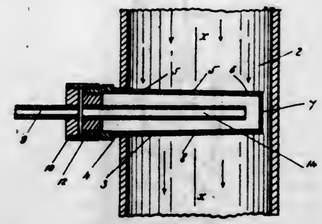
1,350,390. FISH-STRINGER. CLARENCE L. STEIN, Aurora, Ill., assignor of one-half to Halsey M. Johnson, Aurora, Ill. Filed Oct. 6, 1919. Serial No. 328,938. 2 Claims. (Cl. 224—7.)

1. A fish stringer including a holder, means for connecting the same to a support, a threading stem having one end insertible into the holder and the other end extending at an angle thereto, a flexible element detachably



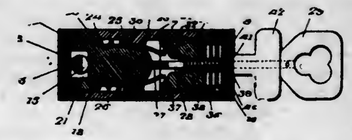
connected at one end to an intermediate portion of the stem and connected at its other end to the holder.

1,350,391. OIL-ATOMIZER. LUSTER STILES, Jr., Evansville, Ind. Filed July 7, 1919. Serial No. 309,246. 2 Claims. (Cl. 184—50.)



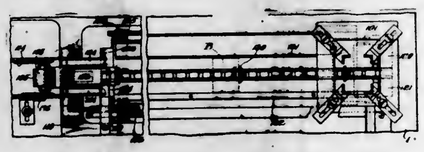
2. The combination, with a steam supply pipe, of an atomizing cylinder secured to the pipe and extending crosswise of it, said cylinder having a closed end, steam inlet holes on one side one of which is arranged near its closed end, said cylinder having also an outlet hole in the middle part of its other side, an imperforate heating tube for lubricant secured within the said cylinder and extending longitudinally of it and having its open end arranged crosswise of the steam inlet hole near the closed end of the said cylinder, and means for supplying lubricant to the outer end of the said heating tube.

1,350,392. LOCK. JAMES M. TAYLOR, Detroit, Mich. Filed Mar. 12, 1920. Serial No. 365,286. 15 Claims. (Cl. 70—105.)



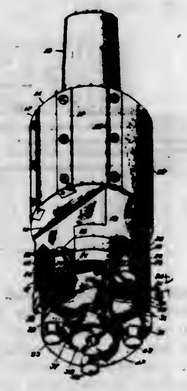
2. A lock comprising a detent, a guard for the detent, a spring-pressed member for moving the guard to protective position, and a key having two relatively movable members, one of said members having means for operating said spring-pressed member to open the guard and the other member having means for moving the detent when the guard is opened.

1,350,393. CONVEYING AND STACKING MECHANISM. JAMES N. TZIBIDES, New York, N. Y., and RILEY HERBERT PARKER, Winthrop, Mass.; said Parker assignor to said Tzibides. Original application filed Feb. 19, 1915, Serial No. 9,232. Divided and this application filed Mar. 2, 1918. Serial No. 219,975. 21 Claims. (Cl. 214—6.)



19. Apparatus for stacking boxes comprising a support, a second support, means for transferring a box from the first support to the second support, said means being arranged to turn the box and deposit it in a vertical position, and means for yieldingly engaging the box as it is deposited on the second support to prevent it from tipping over.

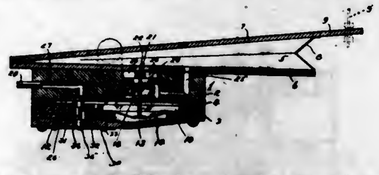
1,350,394. BORING-TOOL. JACOB VAN DER VORN, Chicago, Ill. Filed May 2, 1919. Serial No. 294,193. 7 Claims. (Cl. 77—58.)



1. A boring tool having a head grooved on its under side with radial grooves of size and shape to receive cutters, said grooves being located between block-like extensions having their lower faces lying in a common plane, the outer edge of each of said extensions consisting of a beveled face, said faces being positioned so as to make the forward walls of said grooves shorter than the rear walls, a retaining ring positioned on the underside of said head adjacent and parallel to the said lower faces of said extensions, screws passing through said ring into threaded engagement with said extensions at points adjacent to the forward walls of said grooves to securely clamp the cutters in place, and a centrally positioned adjusting screw engaging a central threaded opening in said head and having a cylindrical guiding portion fitting into a guiding portion of said opening and having a conical portion for engaging the cutters to force them outward as said screw is screwed into said threaded opening.

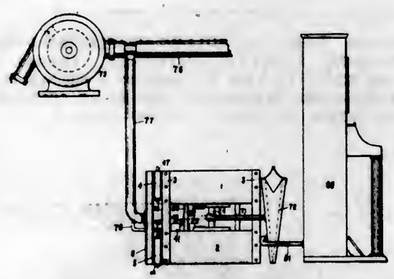
1,350,395. PRIMARY VALVE FOR PNEUMATIC MUSICAL INSTRUMENTS. BURT R. VAN VALKENBURG, Oakland, Calif. Filed Mar. 8, 1916. Serial No. 82,829. 3 Claims. (Cl. 84—178.)

1. A pneumatic action of the character described comprising a valve chest having primary passages, flexible closures for the inlet ends of said passages, tracker bar diaphragms positioned opposite the other ends of said passages, primary valves attached to said diaphragms, stems



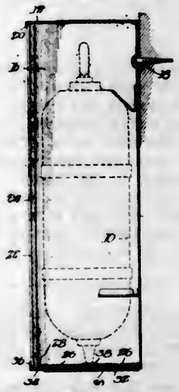
attached to said flexible closures and positioned to be engaged by said primary valves, and pneumatic-operative means controlled by said primary valves.

1,350,396. VACUUM-PUMP. BURT R. VAN VALKENBURG, Oakland, Calif., assignor to American Photo Player Company, Berkeley, Calif., a Corporation of California. Filed Sept. 19, 1918. Serial No. 254,828. 3 Claims. (Cl. 230—2.)



1. A pump including a pair of motor chambers, pistons in said chambers, flexible walls connected to the edge of said pistons and to a wall of the chambers, said chambers having inlets for admitting air between the pistons and flexible walls and the walls of the chamber, valves for controlling said inlets, means connecting said pistons, a bellows operated by each of said pistons, a manifold for each bellows provided with inlets leading into the bellows, valves for said inlets, means for allowing the air to escape from said bellows when compressed.

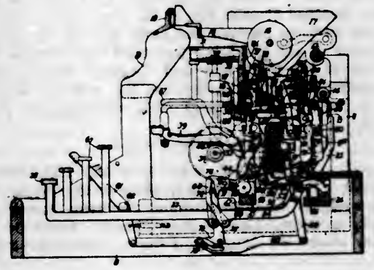
1,350,397. AUTOMATIC SEAL-CLOSURE FOR BOXES. JOHN A. WACHTER, Chicago, Ill. Filed Feb. 7, 1920. Serial No. 357,037. 4 Claims. (Cl. 232—1.)



3. A box open at one side, a removable frangible closure for the open side, a locking plate slidably engaged with

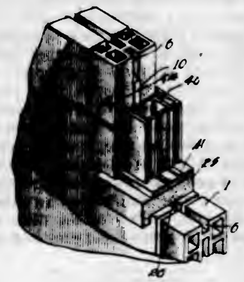
the box to secure the closure against opening movement, and concealed means effective to automatically operate independently of the closure at the termination of the locking movement of the plate to secure the latter against removal when said plate is in one position, and ineffective to secure the plate against removal when the latter is reversed.

1,350,398. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 10, 1918. Serial No. 253,368. 54 Claims. (Cl. 197—5.)



1. In a typewriting machine, in combination, a set of key-levers, a plurality of type-sets, means for permitting a relative movement between each type-set and said set of key-levers, so as to bring any selected type-set and the set of key-levers into position to coöperate with each other, and means whereby said key-levers may be connected with or disconnected from the selected type-set while the latter is in coöperative relation therewith.

1,350,399. WALL CONSTRUCTION. WILLIAM E. WILSON, Mason City, Iowa. Continuation of application Serial No. 752,419, filed Mar. 6, 1913. This application filed Oct. 26, 1917. Serial No. 198,713. 5 Claims. (Cl. 72—41.)



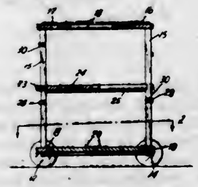
1. In a wall, the main body of which is composed of hollow tiles having spaced apart hollow lobes, the openings of which are arranged horizontally with a longitudinal groove therebetween in the upper and lower faces of said tiles, in combination similarly formed tiles arranged vertically to define an opening in the wall with their groove adjacent the opening in registry with the upper groove of the horizontal course of tiles forming the bottom of the opening, whereby to receive a rib on the casing of the opening to provide a wind seal between the casing and the wall.

1,350,400. BRACKET. ORETA L. YEOMANS, Kis-Lyn, Pa. Filed Nov. 5, 1919. Serial No. 335,804. 2 Claims. (Cl. 156—36.)



2. In combination with a roller provided with a threaded trunnion, a supporting bracket having an opening, a cap provided with a shank insertible through the opening of the bracket, said shank being provided with a socket to receive the threaded trunnion of the roller, a gudgeon carried by the opposite end of the roller, and a second supporting bracket provided with an opening to receive the gudgeon.

1,350,401. BABY-WALKER. STEFAN ZOCH, Munising, Mich. Filed Mar. 22, 1919. Serial No. 284,233. 1 Claim. (Cl. 155—22.)



In combination with the posts of a platform baby walker having a seat and two symmetrical plates hinged to said platform, cross strips passing from one of said posts to another for supporting said seat in its operative position, outwardly turned flat springs attached to the inner side of adjacent posts, reëntrantly bent ends on said springs, a beading, plates provided with pockets secured to the adjacent edges of said seat and one of said first named plates, said beading adapted to engage in the pockets of said plates, substantially as described and for the purpose set forth.

1,350,402. COMBINED FLYTRAP AND GARBAGE-CAN. LOUIS JOSEPH CEREGHINO, Alameda, Calif. Filed Dec. 4, 1916. Serial No. 134,933. 7 Claims. (Cl. 43—120.)



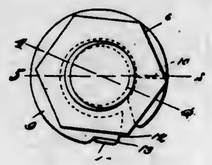
1. A device of the character described comprising a casing forming a chamber, a pan located within said chamber, and provided with a screen-covered spout having an inlet opening therein, and a removable screen cover for said pan.

1,350,403. CLEANING AND POLISHING APPARATUS. RUTHERFORD B. CHASE, Chicago, Ill. Filed Aug. 14, 1919. Serial No. 317,476. 3 Claims. (Cl. 15—8.)



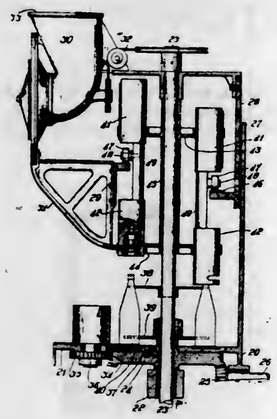
2. A device of the kind described comprising a frame adapted to hold a series of type matrices, and a cover strip adapted to extend over the letter on each matrix and leave the parts on either side thereof exposed.

1,350,404. NUT-LOCK. JOHN A. ETTLER, San Francisco, Calif., assignor of one-half to John V. Oppel, San Francisco, Calif. Filed Apr. 27, 1920. Serial No. 377,069. 3 Claims. (Cl. 151—37.)



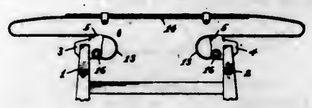
2. A nut lock comprising a nut having a circumscribed beveled lower face and an open end ring having a beveled face matching the beveled face of the nut, one end of the ring being secured to the nut, the other end of the ring tending to move laterally with relation to the face of the nut when pressure on the ring is released, the free end of the ring having an arcuate scoring edge.

1,350,405. CAPPING MECHANISM. JOHN J. GAYNOR, Chicago, Ill., assignor to Arrow Bottlers Machinery Company, trustee, Chicago, Ill., a Corporation of Illinois. Filed Dec. 26, 1917. Serial No. 208,824. 10 Claims. (Cl. 226—84.)



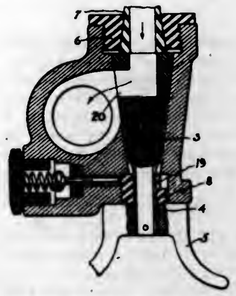
1. In a machine of the class described, the combination of a capping head body, crimping means carried by said body and symmetrically arranged around the axis thereof, and a cap-feed chute and magnetic means positioned on opposite sides of the axis of said body.

1,350,406. BUMPER-SUPPORTING MEANS. JAMES GUTHRIE, Cleveland, Ohio, assignor to The Ohio Motor Vehicle Company, a Corporation of Ohio. Filed Jan. 22, 1920. Serial No. 353,255. 6 Claims. (Cl. 293—55.)



6. In a bumper supporting means, the combination of a rail, the rail having its end bent in circular form, the free end of the circular portion of the rail terminating in an eye, a block, the block having a seat, the block being provided with a recess for receiving said eye, the block having openings at each side of the recess for receiving a pin, the distance between the inner face of the rail and the center of its eye being less than the distance from the seat of the block and said openings therein, and a pin passing through said openings and said eye when the rail is resting against said seat, substantially as described.

1,350,407. THROTTLE-VALVE FOR PERCUSSIVE TOOLS. HARRY V. HAIGHT, Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 22, 1918. Serial No. 259,247. 1 Claim. (Cl. 277—3.)

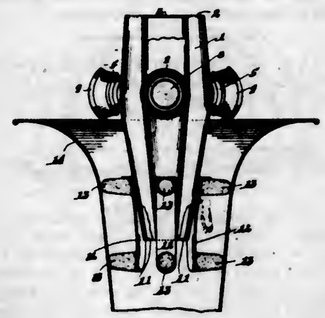


A combined throttle and water valve for controlling the distribution of water and motive fluid, both under pressure, to two separate points, comprising a casing having a tapered aperture and a motive fluid port communicating therewith, a tapered valve plug in said aperture having a central passage and a communicating radial opening adapted to coöperate with the said motive fluid port in the casing for conttrolling motive fluid under pressure, said valve plug having a reduced stem extending from the smaller end, a disk removably mounted on said reduced stem and having a cam surface, a water port in the casing having a valve seat of yieldable material, a puppet valve seating on said yieldable seat for controlling said water port in the casing, and having an extension adapted to engage the cam surface of the disk, so that rotation of the tapered plug valve and cam disk will open and close the water valve.

1,350,408. THIENYLQUINOLIN CARBOXYLIC ACIDS. MAX HARTMANN and ERNST WYBERT, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Oct. 21, 1918. Serial No. 258,957. 2 Claims. (Cl. 23—24.)

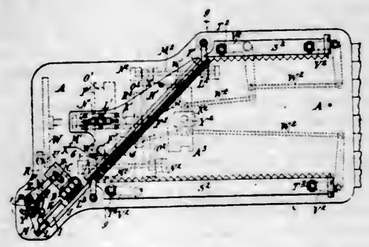
1. As new products the herein described 2-thienylquinolin-4-carboxylic acids, obtained by condensing isatin compounds with acetothienone, which constitute well crystalized compounds of determined fusion point, are easily soluble in most of the organic solvents and in strong mineral acids and serve for histological and therapeutical purposes.

1,350,409. APPLIANCE FOR HORN MUSICAL INSTRUMENTS. GUY B. HUMES, Chicago, Ill. Filed Mar. 22, 1919. Serial No. 284,265. 6 Claims. (Cl. 84—400.)



4. In a device of the class described, a plurality of tubes fastened together at their longitudinal sides, each of said tubes having one end thereof closed and a lateral opening intermediate their ends; an outwardly projecting interiorly threaded annular flange secured to each of said tubes at said lateral opening; an annular seat at the base of said flange; a membranous member disposed on said seat over said opening; and an exteriorly threaded ring having an inwardly projecting flange at one end and adapted to thread into said annular flange, thereby clamping said membranous member to said seat, substantially as described.

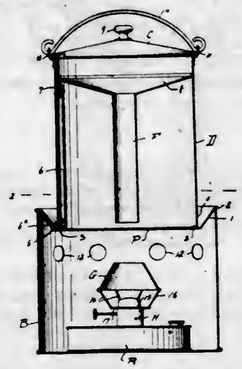
1,350,410. METHOD AND APPARATUS FOR ASSEMBLING AND ATTACHING TILING. WILLIAM J. KENT, Brooklyn, N. Y., assignor to New York Belting & Packing Company, a Corporation of New York. Filed Dec. 24, 1918. Serial No. 268,197. 30 Claims. (Cl. 154—1.)



1. A method of assembling and attaching tiling to form sheets or mats, consisting in feeding tiles having adhesive sides edgewise and transversely with respect to a sheet body until a row of required length is completed, forcing said tiles edgewise against the adjacent edge of the sheet to secure them thereto, and feeding the sheet longitudinally to make room for another row of tiles.

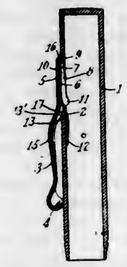
1,350,411. WATERING DEVICE. CARL F. KOLLIN, Marshalltown, Iowa, assignor of one-half to George P. Thornblade, Marshalltown, Iowa. Filed Jan. 26, 1920. Serial No. 354,004. 1 Claim. (Cl. 119—73.)

A watering device comprising, in combination, a hollow base having its top open, a heating unit arranged within said base, a pan detachably engaged with the open end of the base and closing the same, a drum carried by the pan and serving as a water container, said pan extending beyond the drum and providing a trough, a marginal portion of the trough engaging the upper edge of the base whereby said pan and drum are supported in applied position with respect to the base; a wall of the drum having an opening in communication with the trough, a vertically disposed air tube carried by and arranged within the drum and communicating with the atmosphere through a wall of the drum at a point below the top of the trough, and a filling tube arranged within the drum and having its lower end spaced from the lower end of the drum, the upper portion of the filling tube being provided with a



head frictionally engaging the wall of the drum at a point above the upper end of the air tube, said filling tube and head being removable with respect to the drum, the frictional contact of the head of the filling tube with the wall of the drum maintaining said tube in applied position and also permitting the position of the tube within the drum to be adjusted with respect to the bottom of the drum.

1,350,412. CLIP FOR FOUNTAIN-PEN CAPS OR THE LIKE. DAVID J. LA FRANCE, Cambridge, and WILLIAM P. DE WITT, Somerville, Mass., assignors, by mesne assignments, to De Witt-La France Co., a Corporation of Massachusetts. Filed Sept. 13, 1918. Serial No 253,858. 7 Claims. (Cl. 24—11.)

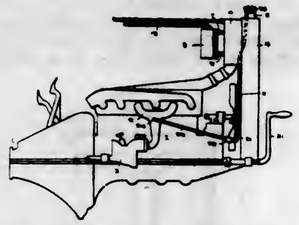


1. The combination, with a cap having a slot formed in the side thereof, of a clip adapted at one end to engage the side of said cap, the opposite end of said clip constructed and arranged to substantially fit said slot, and yielding means coöperating with said cap and clip and adapted to maintain said clip in operative engagement with said cap and also adapted to normally prevent said clip from becoming detached from said cap.

1,350,413. FUEL-VAPORIZING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. JESSE D. LANGDON, Waterville, Wash. Filed June 30, 1917. Serial No. 178,016. 4 Claims. (Cl. 123—25.)

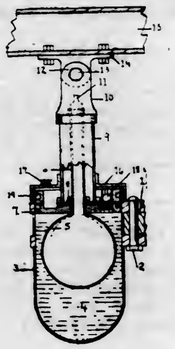
1. The combination with an internal combustion engine and an air tight water cooling system thereof having

a water level, of means for withdrawing water and fuel vapor from said system above said water level and delivering it to the intake of the engine, and means for



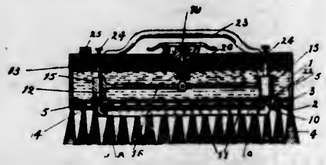
supplying liquid fuel to be vaporized to said system at said water level to be vaporized at the level of the water so to pass through said means with the water vapor to the engine intake.

1,350,414. HYDRAULIC AIR-CUSHION. JESSE D. LANGDON, Waterville, Wash. Filed Apr. 1, 1918. Serial No. 226,052. 5 Claims. (Cl. 257—64.)



1. A device of the character described embodying a member having a liquid chamber and an opposite air chamber therein, a member movable in said member between and separating said chambers to reduce and enlarge said chambers, an inflatable compressible air container within said liquid chamber to be compressed by the reduction in volume in said chamber and by its expansion enlarging the volume of said chamber to separate said members, and means for permitting the flow of liquid from the air chamber past the second named member into the liquid chamber.

1,350,415. FOUNTAIN-BRUSH. EMILE LAROCHE, Montreal, Quebec, Canada. Filed Oct. 3, 1919. Serial No. 328,178. 4 Claims. (Cl. 15—51.)



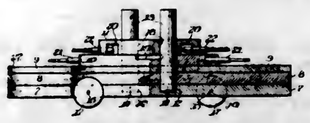
1. A fountain brush comprising a hollow body casing adapted to hold a supply of fluid, the bottom portion of said body casing provided with openings extending therethrough, a rod slidably mounted in said casing, a presser bar connected to the upper end of said rod, a support connected to the inner end of said rod and formed with enlarged perforated ends, stems disposed within said body and adapted for adjustment to regulate said openings, the enlarged ends of said support adapted for movement on said stems to open and close said openings.

1,350,416. RAILROAD-TIE. JAMES KENT MCGILL, Belledeau, La. Filed Aug. 25, 1919. Serial No. 319,657. 1 Claim. (Cl. 238—106.)



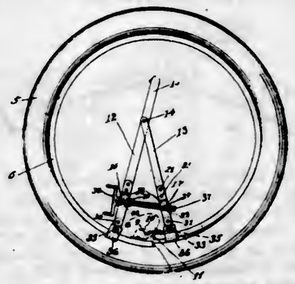
A railroad tie comprising a unitary structure having a longitudinally undulating under surface made up of several waves of slight curvature of substantially the same depth but of varying length, the crests of the downwardly extending waves being formed on arcs of a substantially smaller radius than those of the upwardly extending waves and the crests of two of the downwardly extending waves being disposed directly under the portions of the tie to which the rails are secured and such waves extending for a substantial distance to each side thereof.

1,350,417. CONVERTIBLE TOY BATTLESHIP AND TANK-CAR. WILLIAM E. MCLAREN, Chicago, Ill., assignor, by mesne assignments, to McLaren-Sleight Corporation, St. Joseph, Mich., a Corporation of Michigan. Filed Aug. 21, 1919. Serial No. 318,897. 4 Claims. (Cl. 46—35.)



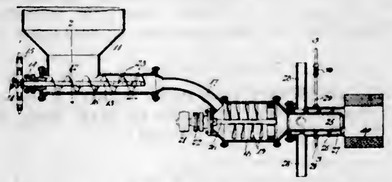
1. In a convertible toy, the combination with an elongated bottom member, of a pair of spaced apart rods fixed at one of their ends to said member and extended at right angles therefrom, a plurality of elongated members each having a pair of spaced apart and registering openings, a smaller member fixedly mounted on one of the last named members and having a pair of openings in register with said other openings and provided with a transversely disposed groove between its openings, a projection in simulation of a cannon extended from each end of the fixed member, another member of less size than the fixed member and having a pair of spaced apart openings to register with the other openings and provided near each of its ends with a transverse recess, the last named member having at each of its ends a longitudinally extended opening therein, a rod in simulation of a cannon detachably mounted in each of said openings, the said members being super-imposed one on the other in the order named with the rods on the first named member extended through said registering openings and beyond the last named member to provide the effect of smoke stacks whereby a miniature battleship, in appearance, as one form of the toy, will be provided, and whereby the removal of the member carrying the fixed part and the recessed member from the said rods can be effected, and the member adjacent to the member carrying the centrally disposed rods can be slid therefrom on said rods, and the member carrying the fixed member can be placed between said members and supported by the said rods, and the recessed member can be placed cross-wise of the thus constituted side members with its recesses engaging the upper edges of the said members and its lower portion engaging the groove in the fixed member, and so that the recessed member can be fixed to the side members by means of the detachable rods carried by the recessed member to produce, in appearance, a miniature tank car as another form of the toy.

1,350,418. DEMOUNTABLE-RIM BREAKER. BERNARD HENRY MERSCH, Covington, Ky. Filed Jan. 28, 1918. Serial No. 214,181. 1 Claim. (Cl. 157—1.)



A hand implement for use in upsetting and resetting demountable rims for resilient wheel tires comprising a long main rock lever having a forked inner end, a short pull or draft lever pivotally connected to the said long main rock-lever at a point substantially near the upper or outer handle end of the latter and having a forked inner end, an orificed swivel mounted in the fork of the long main rock-lever, a swivel having a threaded orifice and mounted in the fork of the short draft-lever, a hand-screw adapted to freely engage the plain-orificed swivel in the fork of the long main rock-lever and to have threaded-engagement with said threaded orifice of the last-named swivel, a pair of two-part claws pivotally attached to each of the said forked ends of the said respective adjustably-connected long main rock-lever and short draft-lever and adapted for readily detachable and adjustable hooking-engagement with the opposite circumferential edges of the said demountable rim, to straddle the transversely-split portion or joint therein, for easy separation and closing, as set forth.

1,350,419. PROCESS AND APPARATUS FOR REDUCING METALLIC OXIDS. WALTER L. MORRISON, Los Angeles, Calif. Filed Jan. 22, 1918. Serial No. 213,259. 9 Claims. (Cl. 75—17.)



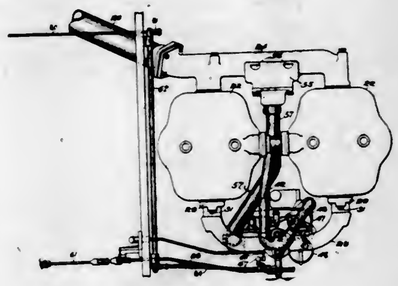
1. A process of reducing metallic oxids which comprises dividing the oxids to a sufficient degree to allow them to be gas borne; subjecting the oxids to the action of hot reducing gases; precipitating the reduced metal together with slag forming material; and working said slag and metal to separate said metal from said slag.

1,350,420. CONCRETE TIE. WILLIAM F. MORRISON, Vallejo, Calif. Filed May 17, 1920. Serial No. 381,855. 6 Claims. (Cl. 238—91.)



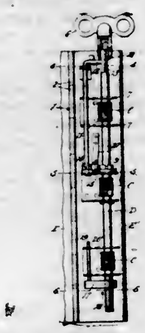
5. A railway tie comprising a concrete body, rail supporting members mounted upon the body longitudinally and reinforcing rods embedded in the body and having upwardly arched portions adjacent therein and engaging under said rail supporting plates.

1,350,421. FUEL SYSTEM FOR INTERNAL-COMBUSTION ENGINES. ADOLPH ROSNER, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Aug. 9, 1918. Serial No. 249,124. 7 Claims. (Cl. 123—122.)



1. The combination with an internal combustion engine, of means for furnishing a combustible mixture thereto, means providing for supplies of warm and cool air for the generation of said mixture, and means to cause an increased supply of mixture to said engine to be accompanied by an increased supply of cool air.

1,350,422. LOOSE-LEAF BINDER. ADOLPH RUBIN, St. Louis, Mo., assignor to Sieber Products Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Feb. 26, 1919. Serial No. 279,280. 16 Claims. (Cl. 129—41.)

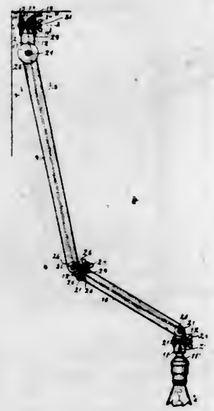


1. A loose leaf binder provided with flexible devices for retaining the leaves in position, a manually operable winding shaft that is adapted to be turned in one direction to tighten said flexible devices and in the opposite direction to slacken said devices, and means for preventing said winding shaft from being turned far enough in the opposite direction to reverse said devices and wind them onto said shaft improperly.

8. A loose leaf binder, comprising tapes or bands for retaining the leaves in position, a winding shaft for tightening said tapes, a rigid pawl that coöperates with a ratchet on said shaft to lock said shaft, a releasing device on which said pawl is pivotally mounted, and means for causing said pawl to be disengaged from said ratchet when said releasing device is moved in one direction.

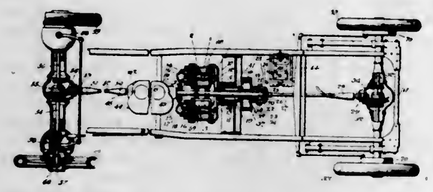
12. A loose leaf binder provided with a back composed of a plurality of rigid sections hinged or pivotally connected together, leaf clamping members carried by said back, tapes or bands for causing said leaf clamping members to securely clamp the leaves together, and a winding shaft and locking mechanism for said shaft arranged inside of and supported by said back.

1,350,423. ELECTRIC-LAMP SUPPORT. ALBERT C. RUNKEL, Milwaukee, Wis. Filed Sept. 5, 1916. Serial No. 118,417. 6 Claims. (Cl. 248—8.)



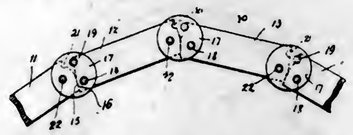
1. An electric lamp support, comprising a base member having eyed ears, a tubular universal joint member having eyed ears on its opposite ends some of which are in engagement with the eyed ears of the base member, a tubular arm having eyed ears at its opposite ends, the ears at one end being in engagement with some of the ears of the joint member, another tubular arm having eyed ears at its opposite ends, the ears on one end being adjacent the ears at the outer end of the other arm, a tubular universal joint member interposed between the adjacent ends of the two arms and having eyed ears which are in engagement with the adjacent ears of the arms, a tubular lamp socket member positioned adjacent the outer end of the second mentioned arm and provided with eyed ears, a tubular universal joint member interposed between the socket member and the outer end of the second mentioned arm and having eyed ears which engage adjacent eyed ears of the arm and the socket member, bolts connecting the respective parts together, and nuts mounted on the bolts for adjusting the frictional contact of the respective parts.

1,350,424. POWER-TRANSMISSION SYSTEM. JACOB SCHURCH, Holtville, Calif., assignor to Imperial Electric Company, Holtville, Calif., a Corporation of California. Filed Jan. 12, 1916. Serial No. 71,648. 19 Claims. (Cl. 290—12.)



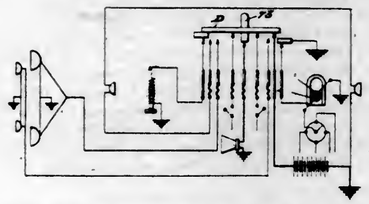
1. A prime mover, concentric rotors having windings, one of said rotors being connected to the prime mover, and a driven member connected to two other of said rotors, one of said rotors constituting a common field for the other rotors.

1,350,425. TOOL-ROD. EMERICH R. SCHWARZ and ALPHONSE J. MARTENAY, Chicago, Ill. Filed Feb. 6, 1919. Serial No. 275,468. Renewed July 3, 1920. Serial No. 394,014. 6 Claims. (Cl. 287—92.)



1. In a tool rod, the combination with alined rod sections having ends abutting against each other through part of their meeting surfaces and beveled from each other through the remainder of their opposite end surfaces, of side plates one on each side of said rod overlapping the sections, said sections being connected through the side plates at points remote from the edges thereof to permit relative angular movement of the sections.

1,350,426. ELECTRICAL CONTROL SYSTEM FOR AUTOMOBILES. WENDELIN P. SENG, Chicago, Ill. Original application filed Feb. 24, 1917, Serial No. 150,649. Divided and this application filed Nov. 9, 1917. Serial No. 201,145. 10 Claims. (Cl. 171—97.)



4. In an electrical control system for automobiles, the combination with the electrical supply, the head-lights, and the circuits for such, of a controlling mechanism for the lights operable by means of a key, a key removable from such controlling mechanism, and means for locking the key against withdrawal from said controlling mechanism when the main lamps of the head-lights are "on."

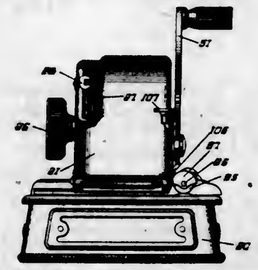
1,350,427. HEAT-TREATING BOX. WILLIAM H. SMITH, East Cleveland, Ohio. Filed July 31, 1919. Serial No. 314,445. 4 Claims. (Cl. 263—49.)



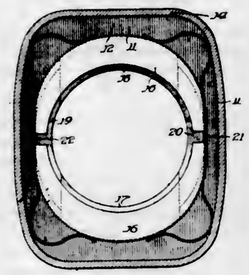
1. A box of the character described comprising a body portion and a cover therefor, said body portion having a substantially circular cross-section and rounded ends.

1,350,428. CHECK-WRITING MACHINE. CHARLES G. TIEFEL, Rochester, N. Y., assignor to Todd Protectograph Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 23, 1918. Serial No. 255,274. 19 Claims. (Cl. 197—6.4.)

1. In a machine of the class described, the combination with an invariably moved shaft and means for effecting said movements, of a paper feed actuating member on said shaft, a spring transmitting movement of the shaft to the member while permitting movement of the shaft relative to the member as the member is arrested, work feeding devices connected for actuation by movements of the member, a printing couple for printing words of different lengths and means for selecting the words to be printed, and devices controlled by the selecting means for differentially limiting movements of the feed actuating member.

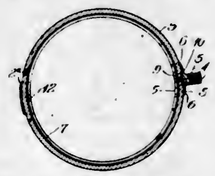


1,350,429. JOURNAL DUST-GUARD. WILLIAM S. TROWBRIDGE, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed May 8, 1918. Serial No. 233,250. 3 Claims. (Cl. 64—22.)



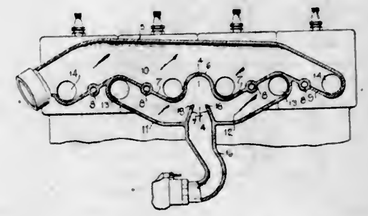
1. A journal dust guard, including a pair of metal containers U-shaped in transverse section, a plurality of segments all adapted to be inserted in a journal box through the axle opening therein and assembled in operative position within the box, each of said containers adapted to receive a plurality of the segments, and springs coöperating with the journal box guard recess and the containers to press the latter toward the axle and to cause movement of the guard responsive to movement of the axle with respect to the journal box.

1,350,430. OPHTHALMIC MOUNTING. JOHN R. VAN TASSEL, Geneva, N. Y., assignor to Standard Optical Company, Geneva, N. Y., a Corporation. Filed June 24, 1918. Serial No. 241,489. 6 Claims. (Cl. 88—47.)



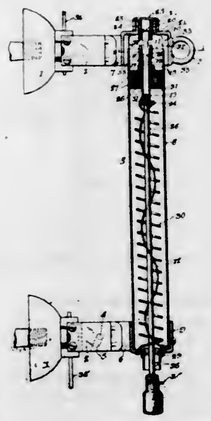
1. An ophthalmic mounting comprising a split nonmetallic ring and a split metallic ring, one of which surrounds the other, and two clips for securing a temple between them, each clip being separate from both rings but surrounding the outer ring and engaging the inner ring to hold the rings together, the metallic ring having lateral extensions at its split lying in the split of the nonmetallic ring and engaging the split ends of such nonmetallic ring.

1,350,431. ENGINE-MANIFOLD. FRANKLIN E. ARNDT, Galion, Ohio, assignor of one-half to David C. Boyd, Galion, Ohio. Filed Nov. 17, 1917. Serial No. 202,534. 2 Claims. (Cl. 123—122.)



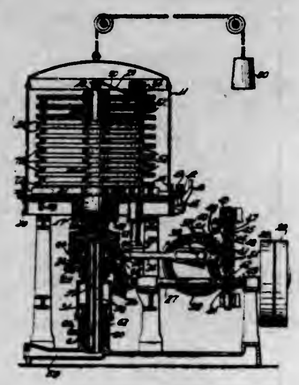
1. An engine manifold having intake and exhaust passages and a wall separating said passages having a portion projecting into the exhaust passage for the impingement of the exhaust gases thereon, said manifold having a carbureter connection communicating with the intake passage and means extending into the intake passage at the juncture of the carbureter connection with the manifold to direct the incoming gaseous charge upon the projecting portion of said wall of the manifold, said means in conjunction with the wall of the intake passage being adapted to retain a priming charge in the passage and prevent the priming charge flowing into the carbureter connection.

1,350,432. FUSE-SWITCH. JOHN P. ARNDT, Milwaukee, Wis. Filed Nov. 15, 1917. Serial No. 202,110. 11 Claims. (Cl. 200—114.)



1. A fuse switch comprising a casing having a closed end and an open end, a spring pressed air-compressor piston working within said casing, a fuse secured to the open end of the casing and to the piston and held in tension by the spring, and means for conducting the compressed air generated in the closed end of the cylinder against the ruptured ends of the fuse when the circuit is opened.

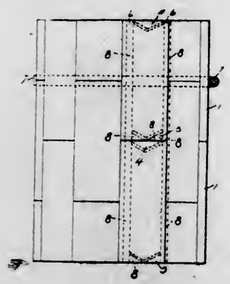
1,350,433. FILTER. FRANK K. ATKINS and EARL F. ATKINS, New York, N. Y. Filed Sept. 20, 1916. Serial No. 121,119. 25 Claims. (Cl. 210—18.)



1. In a filter, a substantially flat filter plate, means for building up a cake on said plate and a cutter constructed and arranged to break up the cake after it is formed, said filter plate and said cutter being relatively movable.

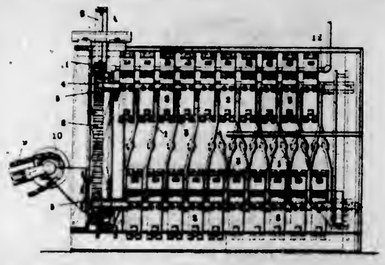
18. In a filter, a filter plate having a filter cloth on its active surface, means for causing fluid to flow through said cloth from the interior of the plate to the outside thereof, adapted to lift the cloth away from the surface of the plate, a hard edged scraper mounted to be out of contact with the cloth except when the fluid is flowing, the scraper extending across the active face of the plate, the plate and the scraper being relatively movable while the fluid is flowing to scrape the surface of the cloth.

1,350,434. CEMENT SECTION FOR CIRCULAR BUILDINGS. HERMAN J. BARSNESS, Black Earth, Wis. Filed Dec. 12, 1919. Serial No. 344,461. 1 Claim. (Cl. 72—6.)



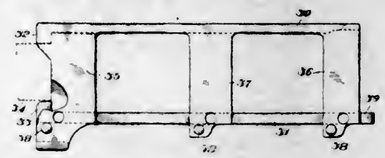
In water tight concrete construction for circular buildings, horizontally curved cement staves with V shaped grooves along one edge and truncated V shaped tongues on the opposite edge, and grooves starting at the edges and descending to the center in the top, and similar grooves in the bottom with greatest depth at the edges of the staves and parallel with the grooves in the top, forming channels all around the staves when assembled as a circular building, in combination with a coagulating liquid binder poured into the channels to seal the staves together at their joints and produce a water tight structure, with hoops around the outside to prevent spreading.

1,350,435. CARCASS SCRAPING AND POLISHING MACHINE. FRANK V. BRECHT and HELMUTH W. TOMTZ, St. Louis, Mo., assignors to The Gus V. Brecht Butchers' Supply Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 2, 1918, Serial No. 256,604. Renewed Jan. 29, 1920. Serial No. 354,874. 6 Claims. (Cl. 17—11.)



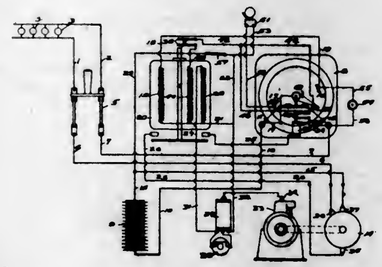
1. In a carcass scraping and polishing machine, the combination of a rotatable member for supporting and advancing the carcass, carcass scraping devices supported on the periphery of the rotatable member and means for actuating said devices independently of the motion imparted to them by the rotatable member.

1,350,436. YOKE FOR DRAFT-GEARS. CHARLES A. CARSCADIN, Chicago, Ill., assignor, by mesne assignments, to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Mar. 30, 1917. Serial No. 158,717. 10 Claims. (Cl. 213—42.)



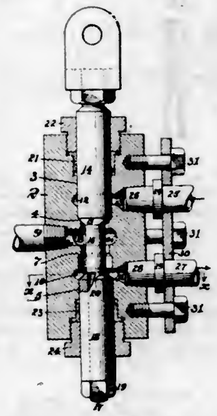
2. A yoke for draft gears comprising separable top and bottom members, and means for adjustably securing said bottom member to said top member in one of a plurality of positions spaced relatively thereto.

1,350,437. ELECTRIC SYSTEM. MARK C. COSGRAY, Sandusky, Ohio, assignor to The Matthews Engineering Company, Sandusky, Ohio, a Corporation of Ohio. Filed Jan. 30, 1919. Serial No. 274,066. 5 Claims. (Cl. 290—30.)



1. In an electric system, translating devices, a battery, an ampere-hour meter, a dynamo connected to the battery and the meter, an engine connected to the shaft of the dynamo, a switch for opening and closing the electric connection and having a coil connected to the meter and operated when the meter reaches a predetermined point to close the switch, the switch having a second coil for maintaining the switch closed, the switch having a third coil operating to open the switch when a predetermined quantity of electricity passes through the meter in one direction and when a predetermined quantity of electricity passes through the meter in the opposite direction.

1,350,438. FLUID-PRESSURE VALVE. JOSEPH DAVIDSON, East Point, Ga. Filed Feb. 24, 1916. Serial No. 80,240. 3 Claims. (Cl. 277—16.)

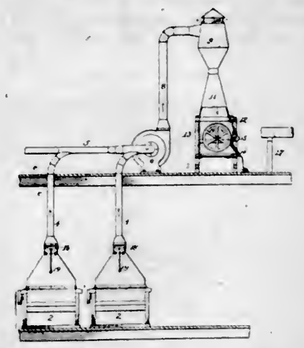


1. In a fluid pressure valve, a body part having a through passage comprising two end portions of uniform diameters separated by oppositely directed valve seat portions arranged at a distance apart and also having a port opening from the passage between the valve seats and further having separate additional ports opening from the side walls of the end portions of the passages at a distance from the respective valve seats and respectively terminating in annular chambers surrounding and opening into said passages, combined with a plunger structure of greater length than the body part and comprising two plunger portions of uniform diameters respectively closely fitting the end portions of the passage so as to be surrounded by the annular chambers and connected by a neck portion of less cross sectional area than the passage between the valve seats, and which plungers adjacent to the neck portion are provided with seating portions adapted to the valve seats but arranged at a distance apart greater than the distance between the valve seats and less than the distance between the additional ports entering the sides of the end portions of the passage in which the plungers operate, the ends of the plungers extending beyond the end portions of the passages of the body part, and suitable packing means surrounding each of the end portions of the plunger and fitting the opposite ends of the body part, whereby each end of the plunger structure is exposed beyond the body.

2. In a fluid pressure valve, a body part having a through passage comprising two end portions of uniform diameters separated by oppositely directed valve seat portions arranged at a distance apart and also having a port opening from the passage between the valve seats and further hving separate additional ports opening from the side walls of the end portions of the passages at a distance from the respective valve seats, combined with a plunger structure comprising two plunger portions of uniform diameters respectivexely closely fitting the end portions of the passage and connected by a neck portion of less cross sectional area than the passage between the valve seats, and which plungers adjacent to the neck portion are provided with seating portions adapted to the valve seats but arranged at a distance apart greater than the distance between the valve seats and less than the distance between the additional ports entering the sides of the end portions of the passage in which the plungers operate, said plunger structure having one of its plungers provided with a neck and a shank of smaller diameter extending from said neck upon which the other plunger is sleeved and clamped thereon in fixed spaced relation from the other plunger.

3. In a fluid pressure valve, the combination of a body having a thorough passage, consisting of two bores in allnement of substantially the same diameter and separated by oppositely directed valve seats, and also having a lateral port from the passage between the valve seats and additional independent lateral ports opening from the sides of the bores of the same diameter at a distance from the respective valve seats, and in which each of said independent lateral ports provides communication with the bore by an annular chamber extending substantially arounnd the bore, a plunger structure comprising two plunger portions of uniform diameters each snugly fitting the respective bores of the same diameter and connected by a neck portion of less cross sectional area than the cross sectional area of the passage through the valve seats and the passage between said seats, said plungers extending beyond each of the bores and provided with oppositely directed seating portions for the valve seats and in which said seating for portions are separated a distance greater than the distance between the valve seats and less than the distance between the independent lateral ports entering the passages occupied by the plungers, and suitable packing means surrounding each of the plungers and fitting the opposite ends of the body whereby each end ot the plunger structure is exposed beyond the body.

1,350,439. LINT-COLLECTING SYSTEM. JOSEPH DAVIDSON, Greenville, S. C., assignor of one-half to American Machine & Manufacturing Company, a Corporation of North Carolina. Filed Mar. 29, 1917. Serial No. 158,174. 4 Claims. (Cl. 13—17.)



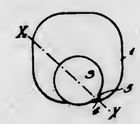
2. The herein described method of collecting lint directly from a plurality of separate sources such as linters, which consists in causing a plurality of separate bodies of freely floating lint to be formed from the separate sources under independent regulated air-blast in respect to each of said sources and suction from a common source sufficiently to cause the separate bodies of lint to be respectively held in suspension within separately confined spaces, collecting all of the plurality of bodies of suspended lint and commingling them under the action of said suction from the common source, transferring the commingled and collected lint to a distant place by means of air pressure, relieving the air pressure employed in transferring the lint before the lint is subjected to the condensing treatment to convert it into batting, and finally condensing the said commingled lint under a relatively light atmospheric pressure.

1,350,440. APPARATUS FOR AGGLOMERATING ORES. EDWARD W. DAVIS, Duluth, Minn. Filed Nov. 19, 1918. Serial No. 263,130. 37 Claims. (Cl. 266—21.)



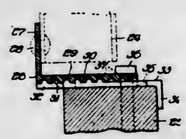
36. The combination in sintering apparatus of a track, a series of trucks mounted on said track to receive charges of material to be sintered, a vacuum chamber adjacent said track, means for forming an air tight communication between each of said trucks and said vacuum chamber during the travel of said trucks adjacent thereto, and reciprocating feeding means mounted adjacent said track and adapted to move said series of trucks by engagement with one of them, said feeding means having a part adapted to engage one of said trucks automatically upon its forward stroke and to pass by said truck upon its return stroke.

1,350,441. MANUFACTURE OF LENSES. THEODORE B. DRESCHER, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,334. 4 Claims. (Cl. 49—82.1.)



4. A lens blank adapted to form the minor lens of a fused bifocal lens, said blank having a relatively small projection extending at the side thereof and beyond its boundary.

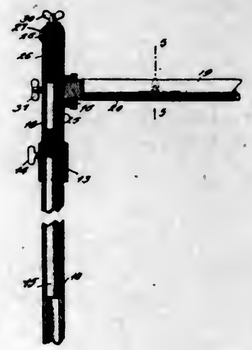
1,350,442. CAR END CONSTRUCTION. JOHN DUNCAN, Boone, Iowa. Filed Oct. 23, 1919. Serial No. 332,615. 2 Claims. (Cl. 105—411.)



1. In a railway car, an end sill, an end post, and a bracket operatively connecting the same comprising a plurality of relatively adjustable parts whereby said bracket is applicable to end sills and posts which may have different dimensions.

1,350,443. BAG-HOLDER. ALBERT EDSTROM, Duluth, Minn. Filed Dec. 13, 1916. Serial No. 136,603. Renewed June 30, 1919. Serial No. 307,781. 1 Claim. (Cl. 83—26.)

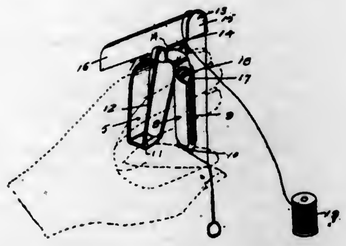
The combination with a bag holder comprising a pair of upright supports, a pair of heads carried by and adjustable vertically with respect to the upper portion of the supports, a cross bar connecting the said heads, a pair of horizontal swinging arms supported on said heads, bag engaging teeth carried by the cross bar and a spring controlling movement of one of said arms, of means for locking the other arm in a predetermined angular position in respect to the cross bar, and against swinging movement in either direction, and means for adjusting the effective length of each arm separately.



1,350,444. MEANS FOR ESTABLISHING ELECTRICAL CONNECTIONS. ALFRED L. EUSTICE, Chicago, Ill., assignor to Economy Fuse & Manufacturing Company, Chicago, Ill., a Corporation of New York. Filed July 20, 1917. Serial No. 181,719. 8 Claims. (Cl. 200—134.)

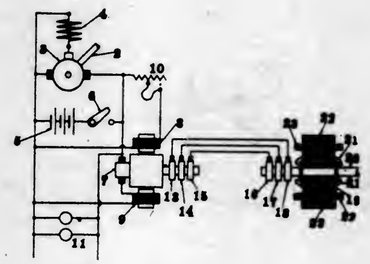
1. A clip for electrical connections including a support, conducting members mounted on said support, and means operable between said support and said conducting members for moving the conducting members toward each other.

1,350,445. AUTOMATIC TATTING APPARATUS. GEORGE E. FRAZIER, Clever, Mo., assignor of one-half to Schyler C. Cobb, Clever, Mo. Filed Mar. 13, 1920. Serial No. 365,623. 13 Claims. (Cl. 66—10.)



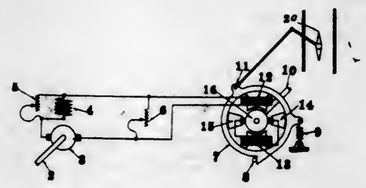
1. As an article of manufacture, an apparatus of the character described comprising a bobbin holder having a slot in one of its walls and means at one end for supporting a bobbin, the walls of said holder loosely embracing the bobbin, whereby a loop of thread may be passed over the bobbin through the holder and drawn from beneath the bobbin and beyond the holder.

1,350,446. SPEED-REGULATING APPARATUS. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed May 27, 1918. Serial No. 236,821. 6 Claims. (Cl. 175—355.)



1. In speed regulating apparatus, the combination of a device to be regulated, speed controlling means therefor, a dynamo electric machine having both members movable, one member being connected to the speed controlling means and the other driven at a speed proportional to that of the device to be regulated, and means for producing in said last named member a magnetic field revolving with respect to said member in a direction opposed to the direction of rotation of said member.

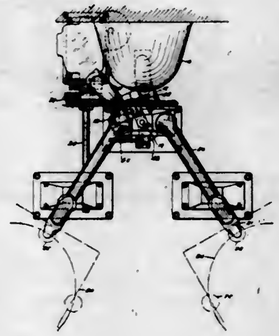
1,350,447. SPEED-REGULATING APPARATUS. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed May 27, 1918. Serial No. 236,822. 5 Claims. (Cl. 175—355.)



1. In speed regulating apparatus, the combination with a device to be regulated, of speed controlling means therefor, a dynamo electric machine having both members movable, one member being driven at a speed proportional to that of the device to be regulated and the other member being connected to the speed controlling means, and means independent of the dynamo electric machine for varying the excitation of said dynamo electric machine in response to variations in speed of the device to be regulated.

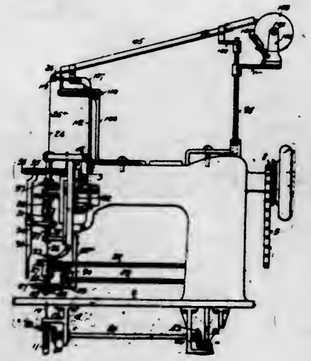
1,350,448. APPARATUS FOR CONVEYING MOLTEN GLASS. JOSEPH B. GRAHAM, Evansville, Ind., and Richard La France, Toledo, Ohio, assignors to The Owens Bottle Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 17, 1918. Serial No. 229,010. 12 Claims. (Cl. 49—55.)

1. The combination with means for discharging molten glass, of a switch device comprising a plurality of means for receiving and directing the glass to different positions, said receiving and directing means being brought individually into operative position by the movement of



the switch, the latter having an intermediate position permitting the glass to be discharged independently of said receiving and directing means.

1,350,449. BEAD-SEWING MACHINE. JOHN A. GROEBLI, New York, N. Y. Filed Nov. 10, 1917. Serial No. 201,259. 11 Claims. (Cl. 112—99.)



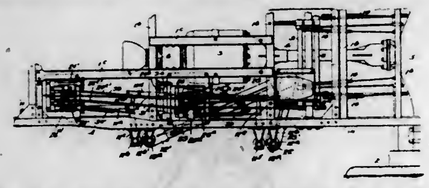
3. A bead sewing machine comprising stitching mechanism, means for holding a supply of strung beads, a separator for controlling the feeding of the beads to the stitching mechanism and a trough interposed between said supply holding means and said separator and having inclined portions adapted to aline the beads.

8. A bead sewing machine comprising a needle, a thread looper coöperating therewith, means coöperating with said looper for controlling the feeding of the beads on the sewing thread in relation to the stitching operations, and means coöperating with said looper to move the beads toward the point of stitching.

1,350,450. OPERATING MECHANISM FOR VEHICLES. EMIL GRUENFELDT, Cleveland, Ohio, assignor, by mesne assignments, to The Baker R & L Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 2, 1915. Serial No. 48,629. 15 Claims. (Cl. 180—77.)

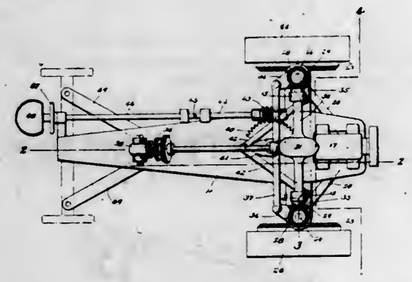
1. In a vehicle having a plurality of control stations and brake operating means, the combination of an operating member for said brake operating means at each station, movable devices arranged when moved to one position to engage and lock one of said members and when

moved to their other position to engage and lock the other member, whereby the operating means can be actuated at



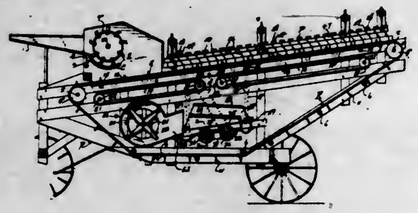
any time from one control station only, means for moving said devices, and a brake setting mechanism adjacent to one of said operating members.

1,350,451. TRACTOR. JACOB GUTH, Salem, Ill. Filed Nov. 26, 1918. Serial No. 263,276. 4 Claims. (Cl. 280—95.)



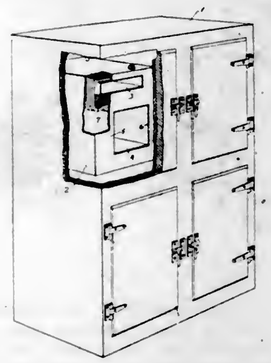
1. In a tractor having a main frame, the combination with a transversely disposed frame arranged near the forward end of said main frame, of vertically disposed members mounted for rotation in the ends of said transverse frame, wheels carried by said vertically disposed members, a pair of crank arms carried by each vertically disposed member, the members of each pair of crank arms being disposed substantially at right angles to each other, one arm of each pair normally projecting inwardly toward the center of the main frame and the other arm of each pair projecting rearwardly, a pivotally mounted crank arm on the main frame, connecting rods between said pivotally mounted crank arm and the inwardly projecting crank arms on the vertically disposed members, and a rod connecting the rearwardly projecting crank arms on said vertically disposed members.

1,350,452. THRESHING-MACHINE. JOHN L. HARRINGTON, Winston-Salem, N. C., assignor to Southern Implement Manufacturing Co., Columbus, Ga., a Corporation of Georgia. Filed Nov. 3, 1919. Serial No. 335,256. 3 Claims. (Cl. 130—30.)



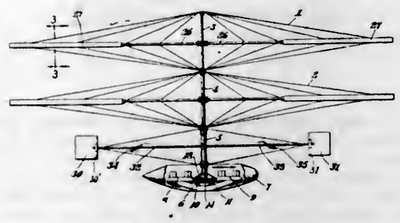
1. A machine of the class described including a separating element, a carrier movable above said element, picker teeth supported above the carrier, and a compression member disposed between adjacent teeth.

1,350,453. REFRIGERATING-TANK. FRED J. HEIDEMAN, Detroit, Mich., assignor, by direct and mesne assignments, to Household Utilities Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 16, 1919. Serial No. 290,545. 9 Claims. (Cl. 62—95.)



4. The combination with a coil for circulation of a cooling medium, of a tank containing a liquid wherein said coil is immersed, said tank having an air passage surrounded by the coil, said coil having unequal portions at the respective sides of said air passage whereby an unbalanced cooling effect and a consequent thermo-siphon circulation is induced within said tank.

1,350,454. FLYING-MACHINE. PETER COOPER HEWITT, Ringwood Manor, N. J. Filed June 14, 1919. Serial No. 304,187. 45 Claims. (Cl. 244—19.)



28. A helicopter having at least one lifting propeller the propeller diameter being between

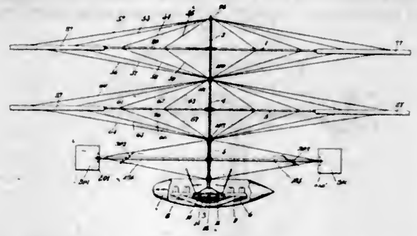
$$\frac{T}{H.P.}\times\frac{\sqrt{T}}{17}$$

and

$$\frac{T}{H.P.}\times\frac{\sqrt{T}}{17}.$$

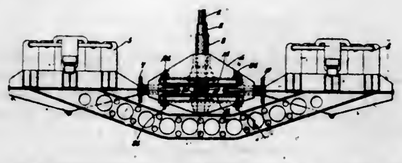
where the lift per horse power is no less than 12 pounds per horse power, the propeller blade area being no greater than 6% of the propeller disk area and the propeller blades being of aeroform shape.

1,350,455. HELICOPTER. PETER COOPER HEWITT, Ringwood Manor, N. J. Filed June 14, 1919. Serial No. 304,188. 40 Claims. (Cl. 244—19.)



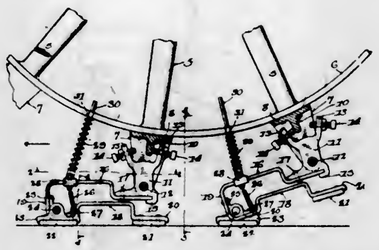
1. A propeller blade of aeroform shape having throughout its length its greatest transverse strength and its center of transverse support forwardly of the center of pressure upon the blade.

1,350,456. HELICOPTER. PETER COOPER HEWITT, Ringwood Manor, N. J. Filed June 14, 1919. Serial No. 304,189. 21 Claims. (Cl. 244—19.)



1. In a helicopter, the combination of a propeller shaft, a driving gear, a gear driven thereby and connected with said shaft, one of said gears being yieldably supported, and means co-acting with said last-mentioned gear to hold the same in mesh with the other gear.

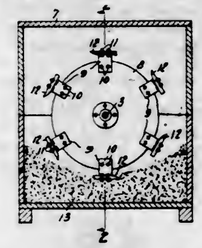
1,350,457. VEHICLE-WHEEL. LEO HOFMEISTER, Milwaukee, Wis. Filed July 18, 1919. Serial No. 311,770. 12 Claims. (Cl. 305—13.)



10. A vehicle wheel having a rim portion provided with projections, foot pieces pivotally connected with said projections and provided with resiliently yielding bearing members having heel and toe portions adapted for independent yielding movement, each foot piece including a connecting member, a resilient forwardly projecting arm and an integral rearwardly projecting arm parallel therewith and spaced therefrom, the bearing members being adapted to yield resiliently in the direction of the supporting connecting members, such movement being limited by the connecting member arranged to serve as a stop.

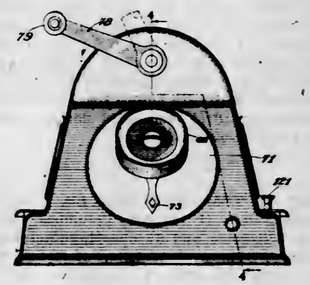
1,350,458. SHOVEL-TESTING MACHINE. MARTIN HOKANSON, Duluth, Minn. Filed Sept. 11, 1916. Serial No. 119,547. 2 Claims. (Cl. 73—51.)

1. A machine for testing shovel and similar blades to determine their resistance to wear, comprising a rotor having means on its periphery for attaching thereto the blades to be tested, with the blades tangential to the periphery of the rotor and their broad faces normal to the radial plane of the rotor, a casing inclosing said rotor for



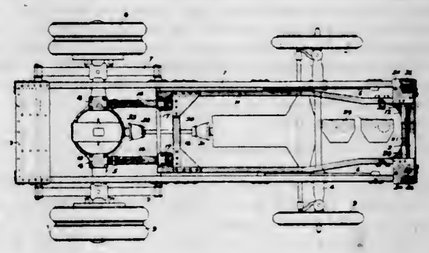
containing abrasive material of the kind on which the blades are to be used, said casing being provided in its bottom with a screen and with an outlet below said screen for the escape of worn out abrading material, and means to draw air down through the screen and the outlet.

1,350,459. CHECK-WRITER. MAGNUS H. JOHANSON, Rochester, N. Y., assignor to Todd Protectograph Co., Rochester, N. Y. Filed Apr. 26, 1917. Serial No. 164,665. 44 Claims. (Cl. 197—6.4.)



1. In a printing machine, a type carrier having a plurality of circumferentially extending types and mounted for rotation about a single axis to effect both type-selection and printing, means comprising indicating devices for effecting the type selecting rotation of the carrier, devices for effecting the printing rotations of the type carrier, and a platen connected for operation by the devices for effecting the printing rotations of the type carrier.

1,350,460. MOTOR-VEHICLE. CLYDE C. KEESLER, Canastota, N. Y., assignor to Watson Wagon Company, Canastota, N. Y., a Corporation of New York. Filed Apr. 26, 1917. Serial No. 164,659. 3 Claims. (Cl. 180—57.)



1. A motor vehicle comprising a main frame, axles, ground wheels on the axles, springs between the axles and

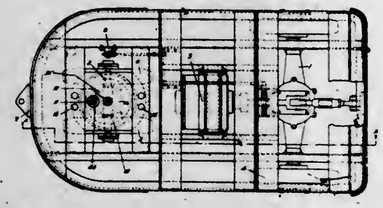
the main frame, a sub-frame, springs located between one of the axles and a portion of the sub-frame and normally yieldingly supporting the sub-frame to permit movement of the sub-frame relatively to the main frame, the sub-frame being pivoted to the main frame at a point remote from the springs supporting said sub-frame, and a power plant and vehicle body carried by the sub-frame, substantially as and for the purpose described.

1,350,461. CANDLE-LAMP. EDWARD J. KNAPP, Syracuse, N. Y., assignor to E. J. Knapp Candle and Wax Co., Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 7, 1919. Serial No. 329,033. 3 Claims. (Cl. 67—21.)



3. A candle lamp including a cup shaped base having an outwardly extending annular flange and an upwardly extending annular flange having a smooth external conical surface which meets the surface of the former flange, a candle seated in the base, a cap for the candle having an internal smooth conical surface at its lower end complemental to the conical surface of the face and movable into coherence therewith before the lower edge face of the cap engages the first mentioned flange, substantially as and for the purpose set forth.

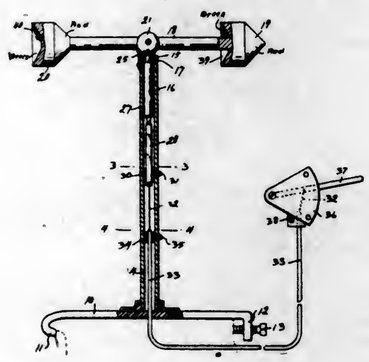
1,350,462. AUTOMOBILE-VEHICLE. CHARLES C. MARTIN and JAMES H. COTTON, Columbus, Ohio, assignors to the Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 8, 1919. Serial No. 281,511. 6 Claims. (Cl. 280—97.)



1. In an automobile vehicle a frame mounted at one end on the rear axle, a plate member mounted on the front portion of said frame, a depending guide member on said plate member, a vertical member carried on the front axle receiving said guide member in its upper portion and formed to surround the front axle in its lower portion, and a member engaging said guide member and said vertical member to secure the same together, and means for imparting a rotary movement to said vertical member to steer said front axle.

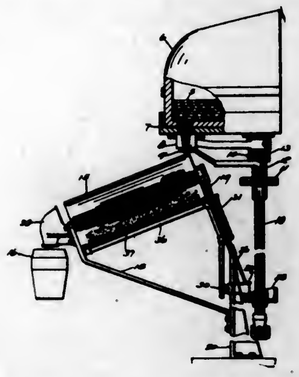
1,350,463. DIRECTION-SIGNAL FOR AUTOMOBILES. WILLIAM L. MILLER and ERNEST A. F. MILLER, Jr., Coffeyville, Kans., assignors of one-third to Nell A. Cooke, Coffeyville, Kans. Filed June 28, 1919. Serial No. 307,397. 3 Claims. (Cl. 116—46.)

1. An automobile signal comprising a tubular support, an internally threaded, rotatable member mounted within the upper end of the support and extending out through the upper end thereof, an indicating member carried by said rotatable member, a longitudinally movable, threaded member mounted within the tubular support and engaging with the rotatable member, said last named member being



held from rotation but having longitudinal movement, an actuating lever, a flexible connection between the actuating lever and the second named member, and a spring detent acting to resist a rotation of the first named rotatable member.

1,350,464. MEANS FOR TRANSFERRING HOT GLASS. MICHAEL J. OWENS, Toledo, Ohio, assignor to The Owens Bottle Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 15, 1918. Serial No. 228,583. 12 Claims. (Cl. 49—55.)

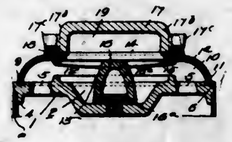


12. The combination of a trough, means to deliver hot glass thereto, and means to revolve the trough about an axis extending lengthwise of the trough.

1,350,465. PRIMER FOR SMALL-ARMS AMMUNITION. HARLEY T. PECK, Lebanon, Ohio, assignor to The Peters Cartridge Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 12, 1920. Serial No. 388,676. 3 Claims. (Cl. 52—2.)

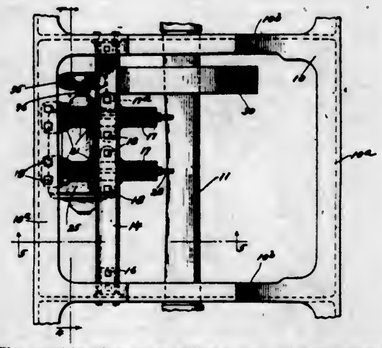
1. A priming composition containing di-plumbic di-trinitro-resorcinol.

1,350,466. OIL-BURNER. JOHN LINCOLN PERKINS, Sabetha, Kans. Filed May 13, 1919. Serial No. 296,752. 1 Claim. (Cl. 158—91.)



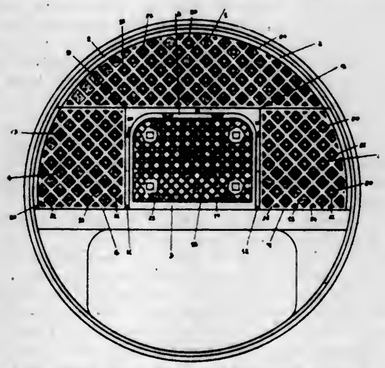
A burner of the type described, including the pan or base-section having a perimetrical flange-like portion provided with air-orifices and with a circular groove, said base-section also having an upstanding ledge at its upper edge, and an upper complemental superposing section having its outer marginal edge received by said groove, said base-section and superposing section having interior ledges or rips with their upper and lower edges arranged in planes above and below each other respectively.

1,350,467. PNEUMATIC-TIRE DRIVE FOR DYNAMOS OF RAILWAY-CARS. EDWARD POSSON, Chicago, Ill. Filed Jan. 17, 1918. Serial No. 212,275. 8 Claims. (Cl. 105—113.)



5. The combination in a railway car, of a truck frame, a dynamo suspended from said frame, a driving wheel detachably secured to an axle of said car, a driven wheel carried by the shaft of said dynamo, one of said wheels comprising a pneumatic tire coacting with the periphery of the other wheel, and positively adjustable means for sliding said dynamo toward and from said axle.

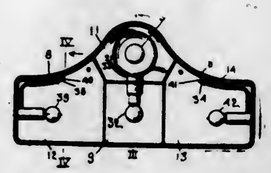
1,350,468. FURNACE-FRONT BAFFLE CONSTRUCTION. JOHN REID, New York, N. Y. Filed Mar. 3, 1919. Serial No. 280,410. 8 Claims. (Cl. 110—172.)



1. In furnace front baffle construction, a back plate forming the inner front wall of the fire box and having a fuel opening, a plurality of baffles partially covering said walls and situated on the back plate of the furnace front above and on either side of the fuel passage opening and a yoke piece bridging the distance across said fuel opening at the upper end thereof and covering the portion of said wall left uncovered by the aforesaid baffles.

3. In furnace front baffle construction, a base having a plurality of holes, a grid in crossed bar form secured to said base having flanges forming retaining lips, and refractory material filling said grid and having holes therethrough corresponding to and alining with the aforesaid holes.

1,350,469. TRAFFIC-SIGNAL. HERMAN R. SAXON, Toledo, Ohio. Filed Nov. 2, 1916. Serial No. 129,062. 1 Claim. (Cl. 40—132.)



A traffic signal embodying a housing, a tail light, a way disclosing light above said tail light, compartments in said housing for said lights, said compartments having a partition separating said lights, a pair of directing lights, and a compartment for each directing light, each directing light compartment having a partition between it and the tail light, and between it and the way disclosing light.

1,350,470. WATERPROOF CONNECTION FOR SPARK-PLUGS. ALBERT SCHMIDT, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Nov. 20, 1917. Serial No. 204,550. 5 Claims. (Cl. 123—169.)

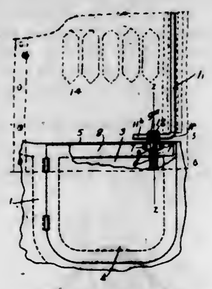


1. The combination with a spark plug comprising a casing, an insulator therein and projecting beyond the outer end thereof, an electric terminal at the outer end of said insulator, and means at the outer end of said casing for securing said insulator therein, of a metallic tube secured to said casing and projecting outward to surround said insulator, a detachable hood for inclosing said insulator and terminal, having a sleeve portion for fitting within said tube and separating the same from said terminal, and a coöperating electrical contact for said terminal mounted on said hood.

1,350,471. SIDE CURTAIN FOR VEHICLES. GEORGE W. SCOTT, Cleveland, Ohio, assignor of one-half to W. R. Horton, Cleveland, Ohio. Filed July 9, 1917. Serial No. 179,432. 2 Claims. (Cl. 296—139.)

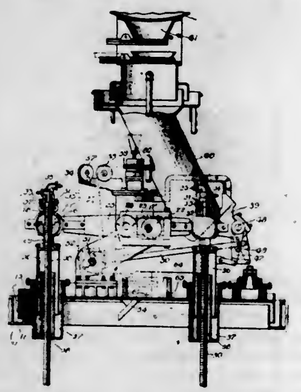
1. In a structure of the character described, a hinged door, a supporting rod, the lower end of said rod extending at right angles to the main portion thereof and also formed with an off-set as described, a socket secured to the inside of said door, a shank in said socket formed with

an aperture, and an eye bolt in said aperture to receive the lower right angled end of said rod to adjustably secure it to said shank.



2. In a structure of the character described, a supporting member secured to the inside of the door of said structure and lying substantially within the outer face thereof, a second supporting member capable of being removably supported by said first member, a vertically arranged supporting rod having a horizontally extending lower end off-set from the vertical portion thereof, and means for adjustably securing the horizontal lower end of said rod to said removable supporting member to allow the vertical portion of said rod to be adjusted longitudinally of said door.

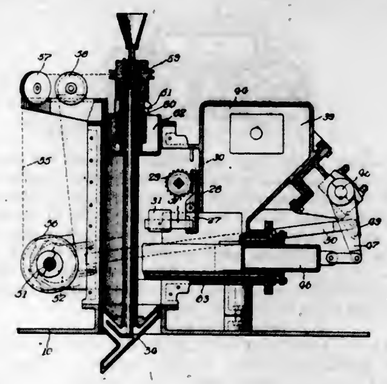
1,350,472. GAS-PRODUCER. SAMUEL B. SHELDON, Duluth, Minn. Filed June 11, 1918. Serial No. 239,361. 8 Claims. (Cl. 48—85.2.)



1. In a gas producer, the combination of a walking beam, and pokers mounted on opposite sides of the center thereof for disturbing the fuel in the coking zone.

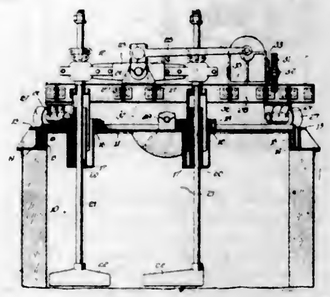
1,350,473. GAS-PRODUCER ARRANGEMENT. SAMUEL B. SHELDON, Duluth, Minn. Filed June 11, 1918. Serial No. 239,362. 4 Claims. (Cl. 48—86.)

1. In a gas producer, the combination of a fuel hopper having a water jacketed floor directly above the top cover of the producer and so closely located to the top cover as to necessitate artificial cooling to prevent warping, a fuel distributer mounted adjacent to said hopper floor, means for cooling said distributer, the fuel hopper floor extending and terminating directly over the distributer,



a plunger for feeding fuel from the hopper onto said distributer, and means for actuating said plunger and distributer.

1,350,474. GAS-PRODUCER. SAMUEL B. SHELDON, Duluth, Minn. Filed Sept. 6, 1918. Serial No. 252,862. 1 Claim. (Cl. 48—86.)

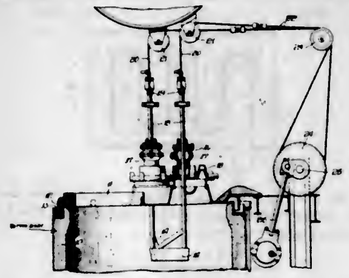


In a gas producer, the combination of a main body portion having a track thereon, a rotary top for the producer, a rotatably mounted superstructure mounted over said top and supported independently thereof, producer operating mechanism mounted on said superstructure, and propelling means mounted on said superstructure for driving said operating mechanism and for rotating said top and superstructure, the rotary top and superstructure being supported directly on said main body portion, and movably mounted on said track.

1,350,475. GAS-PRODUCER. SAMUEL B. SHELDON, Duluth, Minn. Filed Nov. 4, 1918. Serial No. 260,995. 1 Claim. (Cl. 48—85.2.)

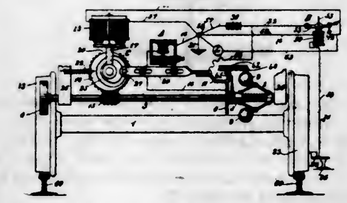
In a gas producer, the combination of a rotary body, a stationary top therefor sealed with respect to the body to prevent the escape of gas, said top having a plurality of relatively large poker receiving openings therein, a plurality of vertically movable pokers extending loosely through said top openings to permit the pokers, when in the fuel, to lag as the body rotates, closures for said openings including ball and socket joints to permit the pokers to lag, the poker shanks being regularly vertically and reciprocally movable through the balls respectively of said joints, poker actuating mechanism, and a

flexible member extending between each of said pokers and said actuating mechanism whereby the pokers are raised



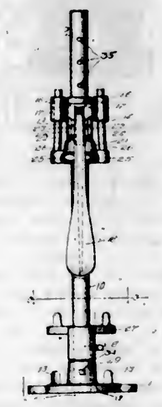
positively and lowered solely by gravity at regular intervals to maintain the fuel bed in a uniformly porous condition.

1,350,476. AUTOMATIC SPEED-CONTROLLER FOR MOVING VEHICLES. PAUL J. SIMMEN, Buffalo, N. Y. Filed Feb. 23, 1917. Serial No. 150,306. 16 Claims. (Cl. 246—182.)



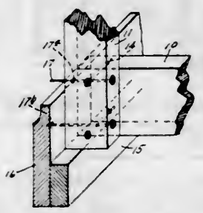
1. In combination, a railway divided into blocks, a series of signal rails along each block, means for energizing and deenergizing each series, a vehicle adapted to move along the railway, an actual speed indicator, a permissive speed indicator and a retarding device on the vehicle, and means on the vehicle adapted to actuate the permissive speed indicator whenever the vehicle is not passing over an energized signal rail.

1,350,477. BOTTLE-CAPPER. JAMES W. SMALL, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,074. 3 Claims. (Cl. 226—84.)



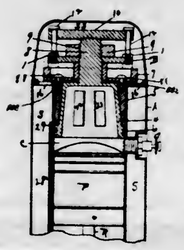
1. A bottle capper comprising a cap-engaging member, a pair of guide rods connected with said member and arranged at the side thereof, sleeves for receiving said guide rods, and a lever for moving said cap-engaging member, said rods having portions thereon arranged to bind slightly in said sleeves when said lever is moved to its inoperative position to retain said lever in said position.

1,350,478. PORTABLE HOUSE. CHARLES M. STAFFORD, Minneapolis, Minn. Filed Oct. 12, 1918. Serial No. 257,872. 13 Claims. (Cl. 20—2.)



1. In a knock-down building, the combination with a sill and a joist, of a studding having one of its sides abutting the joist and its outer face abutting said sill, and two sets of nutted bolts extending through said studding, at right angles to each other, with one set thereof also extending through said sill and the other set thereof also extending through said joist, whereby said joist, sill and studding may be properly alined and separably interconnected rigidly together in their required working positions.

1,350,479. VALVE FOR INTERNAL-COMBUSTION ENGINES. JOHN A. TOOMEY, Los Angeles, Calif. Filed Apr. 22, 1919. Serial No. 291,807. 4 Claims. (Cl. 123—59.)

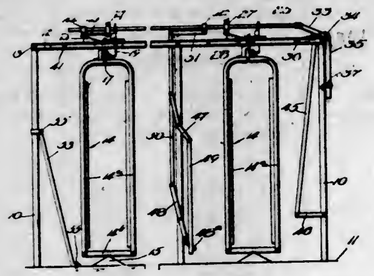


4. In an internal combustion engine, the cylinder C the inserted head 4, the rings 6, the nut and screw 9, the rigid plate B, the cross piece 10, and bolts 12, the valve 5, ports in the said cylinder C, head 4, and valve 5, for the intake and exhaust of gas and means for rotating the valve, in combination with the extension piece 8 between the head 4 and cross piece 10 substantially as described.

1,350,480. COW-STANCHION. RALPH W. WALTER, Mazomanie, Wis. Filed Mar. 10, 1919. Serial No. 281,813. 10 Claims. (Cl. 119—148.)

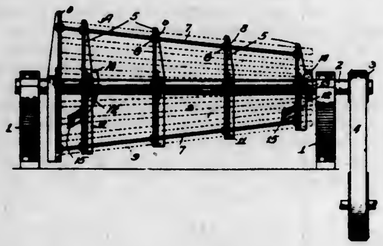
1. In combination, a series of stanchions, a longitudinal supporting rail above said stanchions, a longitudinally slidable rod carried by said rail, latch members carried by said rod and engaging said stanchions to operate the

same, and individual locking means carried by said rail adjacent each of said stanchions for locking said stan-



chions in closed position and simultaneously rendering inoperative the latch member adjacent thereto.

1,350,481. COATING APPARATUS AND METHOD. EDWARD L. WATROUS, deceased, El Paso, Tex., by Agnes B. Watrous, executrix, Evanston, Ill. Filed Sept. 20, 1919. Serial No. 325,254. 14 Claims. (Cl. 91—59.1.)



1. In apparatus of the class described means for subjecting freshly coated pipes, bars or the like to centrifugal action, said means comprising a rotatable shaft, a plurality of perforated disk-like plates spaced on said shaft and each provided with a plurality of spaced perforations, and means for rotating said shaft and plates.

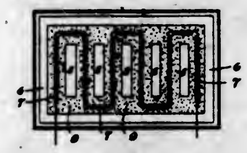
1,350,482. PROCESS OF EXPRESSING WAX FROM PETROLEUM DISTILLATES. WILLET C. WELLS and FRANK E. WELLS, Columbus, Ohio. Filed Apr. 23, 1914. Serial No. 833,897. 3 Claims. (Cl. 210—195.)



1. The herein described process of obtaining low cold test oils from viscid distillates of petroleum and the like consisting in feeding the distillates to a woolen fabric strainer which is uniformly and adequately supported by structure that does not materially obstruct the strainer, under sufficient pressure to express the oils from the distillate.

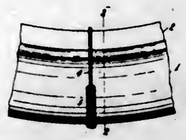
1,350,483. PROCESS FOR CARBONIZING ARTICLES AND APPARATUS FOR SAME. MERRITT D. WILBUR, Rochester, FRANCIS P. CANNON, Syracuse, and THOMAS J. MURPHY, Rochester, N. Y. Filed July 26, 1917. Serial No. 182,926. 8 Claims. (Cl. 148—10.)

1. The process of carbonizing articles consisting in surrounding the article with a non fusible carbonizing material and quickly raising the temperature of such material, maintaining the same at a predetermined temperature for a certain length of time, and simultaneously



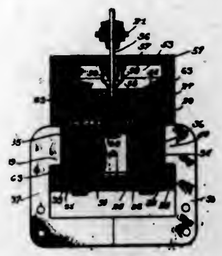
passing an electric current through the articles and the material between electrodes spaced apart from the articles by the carbonizing material.

1,350,484. ANTISKIDDING DEVICE FOR TIRES. WILLIAM J. A. BAILEY, Boston, Mass., assignor, by mesne assignments, to Non Skid Company of America, Boston, Mass., a Corporation of Massachusetts. Filed May 26, 1917. Serial No. 171,263. 4 Claims. (Cl. 152—14.)



1. An anti-skid for tires comprising a cross-retaining member extending crosswise over the tread face of the tire, and a road-engaging, wear-resisting element comprising a metal coil mounted upon said cross-retaining member with closely wound convolutions flattened against said cross-retaining member.

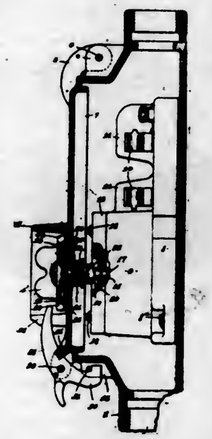
1,350,485. GRAPHIC RECORDING INSTRUMENT. JACOB W. BARD and OTIS WHITE, Springfield, Ill., assignors to Sangamo Electric Company, Springfield, Ill., a Corporation of Illinois. Filed Oct. 14, 1916. Serial No. 125,728. 12 Claims. (Cl. 171—265.)



1. A motor element for electrical instruments, comprising a mercury chamber casing having diametrically-opposite slots in the side wall thereof, plates composed of magnetic material fitted in said slots, a magnet having its poles fitted in said slots opposite said plates, and an armature in the mercury chamber.

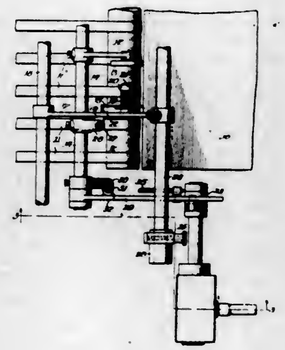
8. A motor element for electrical instruments, comprising a mercury chamber casing open at the bottom, a bracket, a bottom-plate for said casing carried by said bracket, a magnet connected with said bracket and having its poles at opposite sides of the mercury chamber, a return-plate carried by the bottom-plate and projecting into the mercury chamber casing, an armature extending between the magnet poles and said return-plate, and contacts carried by said bottom-plate and connecting with opposite sides of the mercury chamber.

1,350,486. ELECTRIC SWITCH AND BOX. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed July 27, 1916. Serial No. 111,688. 8 Claims. (Cl. 200—50.)



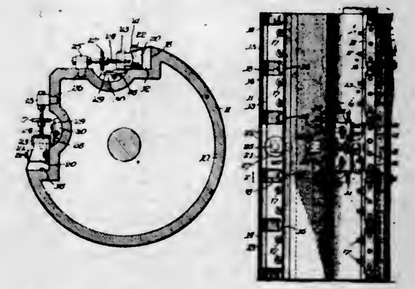
1. The combination of a box having an opening in one side, a movable cover for the open side, an electric switch in the box, and means for operating the switch comprising a member located in a box, and a member carried by the cover and movable into and out of coacting relation with the former member during closing and opening of the cover, means for locking the cover in its closed position, and means actuated by the operating member on the cover for controlling the operation of the locking means, substantially as and for the purpose described.

1,350,487. PLURAL-SHEET DETECTOR. JOSEPH R. BLAINE, Oak Park, Ill., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1917. Serial No. 172,129. 9 Claims. (Cl. 74—46.)



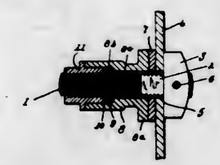
1. In sheet feeding means, the combination of a rotatable bodily movable detector cam, and means operable by the bodily movement of the cam for interrupting the feed of sheets, substantially as described.

1,350,488. SHIFTING PLATE-CLAMP. JOSEPH R. BLAINE, Oak Park, Ill., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 24, 1918. Serial No. 236,279. 9 Claims. (Cl. 272.)



1. A clamp for positioning a flexible printing plate upon its supporting member, including a clamping member, a pin pivotally mounted therein, a pivotally mounted anchor pin, and a threaded member associated with said pins for adjusting the position of the plate.

1,350,489. REPAIR-PLUG. JAMES BROPSON, Cleveland, Ohio. Filed Dec. 29, 1919. Serial No. 348,084. 1 Claim. (Cl. 137—99.)



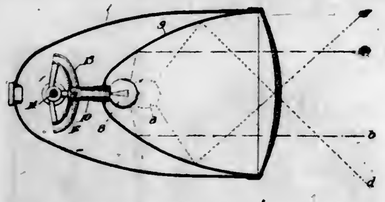
A repair plug comprising a bolt adapted to be inserted through a hole and provided with means at its inner end to prevent withdrawal from the hole, a tubular fitting inclosing the outer part of the bolt, said fitting having a cup at its outer end, a nut screwed on the outer end of the bolt and into said cup, packing under the inner end of the fitting and packing under the nut, in the cup.

1,350,490. INTERLOCKING WALL-BLOCK. ROBERT J. DYER, Oakland, Calif., assignor of one-third to H. B. Williams, San Francisco, Calif. Filed Aug. 10, 1918. Serial No. 249,234. 1 Claim. (Cl. 72—41.)



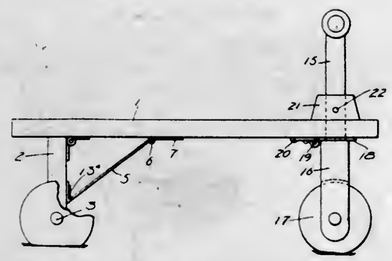
An elongated interlocking wall block formed with one substantially smooth unbroken face and the opposite face provided adjacent one end with a vertically disposed interlocking groove open at its opposite ends and having a contracted throat and said face formed adjacent its opposite end with an outwardly projecting interlocking tongue having an enlarged head, said block being formed at opposite ends respectively with an interlocking tongue and groove each of said tongues and grooves in the face and end walls extending the full depth of the block and said tongues projecting respectively beyond the normal side and end walls of said block.

1,350,491. AUTOMOBILE-HEADLIGHT. WILLIAM M. FELLERS, Warrington, Fla. Filed Apr. 17, 1916. Serial No. 91,661. 5 Claims. (Cl. 240—44.)



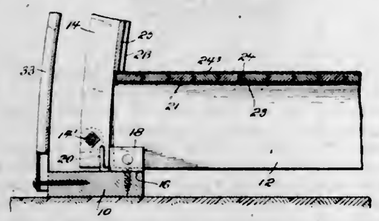
1. The combination with an automobile, of a headlight comprising a lamp and a parabolic reflector, an oscillating cam adapted to effect relative movement between the lamp and the reflector, and connections between the steering gear of the automobile and said cam whereby the cam is actuated in accordance with the direction of movement of the automobile, for the purpose described.

1,350,492. TOY VEHICLE. WILLIAM E. GLEESON, East McKeesport, Pa. Filed Sept. 23, 1919. Serial No. 325,757. 2 Claims. (Cl. 208—165.)



1. In a toy vehicle, a seat board, a pillow block hingedly secured to said board so as to be movable toward and away from the same, bracing means for securing the pillow block in a substantially vertical position, said board being provided with a slot extending from the forward end thereof, a holding collar hingedly secured to the board adjacent said slot, a steering spindle fitting through said collar so as to be rotatable therein and provided at its lower end with a fork, a steering ground wheel mounted in said fork, and a stop collar releasably secured to said spindle and normally engaging the upper face of the board so as to hold the spindle in vertical position while permitting turning thereof for steering purposes.

1,350,493. KNOCKDOWN BUILDING. CHAUNCEY M. GOODRICH, U. S. Army. Filed Nov. 13, 1918. Serial No. 262,385. 2 Claims. (Cl. 20—2.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



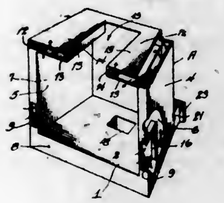
1. A knock down building, including joists, supports, and a connecting member for securing the supports to the joists comprising a body portion, wings extending along the longitudinal edges of the body portion and bent at right angles thereto to form a socket for the reception of the end of a joist and spaced apart wings at one end of the body portion bent at right angles thereto and spaced from the first mentioned wings and lying in a plane at right angles to the planes of said first wings and forming a socket for the reception of the end of the supports.

1,350,494. VEIL. RINA GREEN, Copenhagen, Denmark. Filed Oct. 28, 1919. Serial No. 333,964. 1 Claim. (Cl. 2—116.)



A veil including a single ply flexible and stretchable body adapted to be arranged over the face and beneath the chin of the wearer and provided with a transverse slit at a point opposite the mouth of the wearer to enable the wearer to eat or drink without lifting the veil.

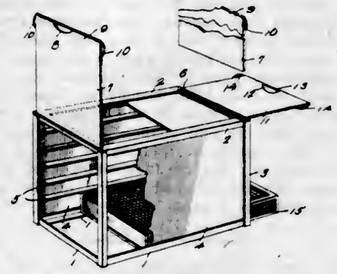
1,350,495. FIREPLACE. WALTER HAGENBUCH, Martinez, Calif. Filed Apr. 4, 1917. Serial No. 159,715. 1 Claim. (Cl. 126—121.)



A fire place structure comprising a hollow unit provided with double walls at its bottom, top, sides and rear, the top wall being centrally divided to form an opening for the escape of the products of combustion, air exit passages being formed between the double walls at opposite sides of the opening, the double side walls forming side passage ways communicating with said passages, baffle members arranged within said side passage ways, said fire place being provided with a front wall having inlet openings, said baffle members being disposed adjacent said inlet openings to direct the incoming air from the inlet openings downwardly to the bottom of the side passages, the rear marginal edge of the bottom wall having a rearwardly extended portion, and the lower marginal edge of the rear wall having an extension above said first mentioned extended portion whereby the two extensions form a vent in communication with the space between said bottom walls.

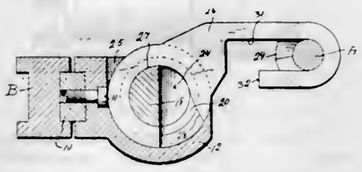
1,350,496. SHIPPING-CRATE. FRANK RICHARD HALE, Hartford, Conn. Filed Oct. 29, 1919. Serial No. 334,195. 3 Claims. (Cl. 217—40.)

1. A shipping crate comprising a receptacle formed of an angle iron frame having a bottom and side plates secured thereto, said frame having longitudinally and vertically extending guideways formed in the ends thereof, a cover slidable in the longitudinally extending guide-



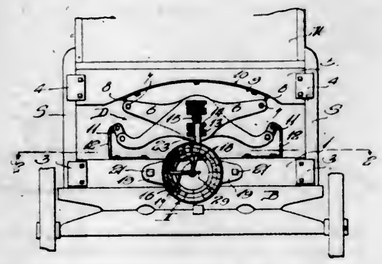
ways, end plates slidable in the vertically extending guideways, and removable containers supported in the receptacle.

1,350,497. AUTOMOBILE-LOCK. LOUIS B. HALLIDAY, Cincinnati, Ohio. Filed Dec. 8, 1919. Serial No. 343,164. 11 Claims. (Cl. 70—90.)



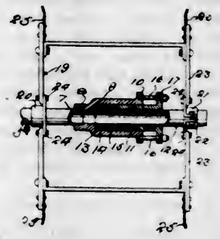
10. An automobile lock comprising a lock casing, a key-actuated locking member rotatably in the casing, and a hasp having a head adapted to be engaged by said locking member and locked from detachment from said locking member by a rotation of the locking member a predetermined distance in one direction, said hasp at the end opposite said head being longitudinally slotted and having an opening extending from the edge face of the hasp into said slot at the inner end of the slot.

1,350,498. LOAD-INDICATOR. ANDREW HALLNER, Arboga, Calif. Filed Apr. 7, 1919. Serial No. 288,110. 6 Claims. (Cl. 265—42.)



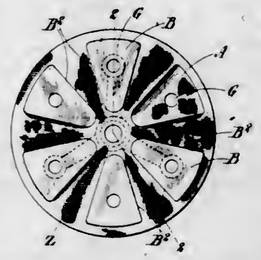
1. A load weighing device for vehicles comprising a spring device for disposition between the vehicle body and the running gear, a load indicator adapted to be fixedly carried by the running gear and having a downwardly movable spring-raised operating member depressed by compression of said spring device, and means for holding said operating member in a position against the tension of its spring raising means to prevent actuation of said member while hauling the load.

1,350,499. HOSE-REEL. EDWARD M. HAMNER, Diboll, Tex. Filed June 26, 1917. Serial No. 177,109. 1 Claim. (Cl. 299—78.)



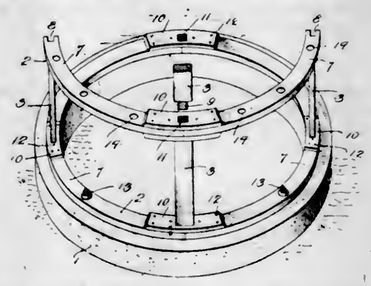
In a hose reel, the combination with an inner hub adapted to be slipped over and to rotate around a supply pipe, an outer hub comprising clamps and bolts connecting them, spokes radiating from the respective hubs, annular flanges connecting the outer ends of the two sets of spokes, and slats connecting the spokes in pairs; of an outlet pipe to whose outer end the hose is adapted to be attached, its body being held between said clamping members, and a swivel coupling mounted on its inner end and adapted for connection with the supply pipe at a point within the reel.

1,350,500. UNIVERSAL JOINT OF THE FLEXIBLE-DISK TYPE. EDWARD JOHN HARDY, Coventry, England. Filed Feb. 3, 1920. Serial No. 356,082. 2 Claims. (Cl. 64—96.)



1. The combination of a flexible universal joint disk, plates upon the surface of said disk, bolt holes in said plates and said disk, recesses molded in the surface of said disk into which said plates fit, the edges of said plates engaging the edges of said recesses, substantially as set forth.

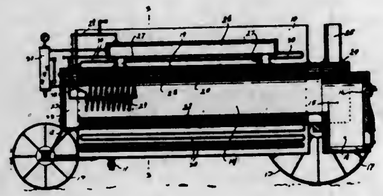
1,350,501. VENTILATED SILO. ROBERT HARTENBERGER, Sheboygan Falls, Wis. Filed Apr. 28, 1919. Serial No. 293,180. 1 Claim. (Cl. 20—1.4.)



A silo structure comprising a plurality of vertically spaced rings each formed of short arcuate sections abut-

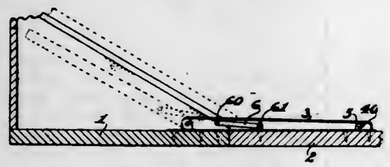
ting at their ends and provided in such ends with registering notches jointly forming mortises, horizontal connecting plates secured to the upper and lower sides of said ring sections and extending over the joints between them, said plates having central mortises alined with those aforesaid, and short studs of a length to extend between the adjacent rings, said studs being reduced at their ends to form tenons and shoulders at the inner ends thereof, said tenons being snugly received in said alined mortises and said shoulders resting tightly against said connecting plates, the tenons in each mortise being spaced slightly apart at their adjacent ends to permit the shoulders of said studs to bear tightly against said connecting plates.

1,350,502. COMBINED ASPHALT-KETTLE AND STEAM-GENERATING PLANT. CARL F. HETHERINGTON, Indianapolis, Ind. Filed Jan. 17, 1920. Serial No. 352,150. 14 Claims. (Cl. 126—343.5.)



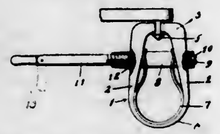
1. A heating kettle and steam generator comprising a kettle proper, a flue extending through the same, means for carrying products of combustion into and through said flue, a water leg entirely surrounding that portion of the flue disposed within the kettle and constituting a steam generator, and ducts leading from the steam generator to the exterior of the kettle.

1,350,503. LEAF-SUPPORTING MECHANISM. BENJAMIN IRVINE, Everett, Wash. Filed Apr. 12, 1920. Serial No. 373,374. 5 Claims. (Cl. 45—91.)



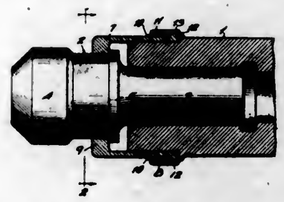
1. A support for a hinged leaf comprising a bar hinged inwardly of the hinge axis of the leaf, a link pivotally connecting the leaf and the bar outwardly of their pivots, and a hook carried by the leaf and adapted to be lockingly engaged with the outer end of the bar as it reaches its fully opened position.

1,350,504. HORSESHOE-CALK WRENCH. HANS P. JORGENSEN, Beloit, Wis. Filed June 9, 1919. Serial No. 302,870. 1 Claim. (Cl. 81—111.)



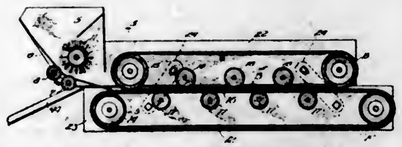
A device of the class described comprising a one-piece U-shaped metal bar having a thinned central portion and gradually thickened toward the ends of its arms, said ends being turned inwardly to provide a pair of jaws, the opposed outer sides of the two arms being provided with shallow sockets near the free ends of said arms, a one piece elongated yoke slidably receiving said arms, a U-shaped spring between said arms having its ends passed through said yoke, the bow of said spring bearing against the corresponding part of the aforesaid bar to retain said spring in place, and a pair of screws threaded through the opposite ends of said yoke and received at their inner ends in said shallow sockets, one of said screws having a handle for rotating the same to move the two arms inwardly against the resiliency of the aforesaid spring and the thinned portion of the bar from which said arms are formed.

1,350,505. PERCUSSION-TOOL. WILLIAM H. KELLER, Grand Haven, Mich., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich., a Corporation of Michigan. Filed Apr. 13, 1918. Serial No. 228,341. 3 Claims. (Cl. 121—32.)



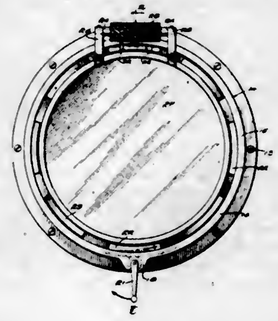
1. A percussion tool comprising, in combination, a body having formed in its periphery a longitudinal groove and an intersecting annular groove, the longitudinal groove being made of a depth greater than that of the annular groove, a tool operable in the body and having an annular flange, a holding member for the tool arranged to fit snugly in said longitudinal groove and having at its forward end a portion protruding into the path of movement of said tool flange, a retaining ring for said member fitting snugly in said annular groove and overlying the rear end of the holding member in the longitudinal groove, and means whereby the holding member and its retaining ring are adapted to interengage so that the retaining ring holds the holding member against movement in the operation of the tool.

1,350,506. NUT-BLANCHER. JAMES G. KENNEDY, Chicago, Ill., assignor of one-half to William H. Brown, Chicago, Ill. Filed Apr. 11, 1919. Serial No. 289,375. 8 Claims. (Cl. 146—14.)



1. In a nut-blanching machine, the combination of a pair of conveyer belts arranged in substantially parallel relation with a space between said belts, mechanism for positively driving said belts at relatively different speeds in the same direction, means for feeding nuts to the space between said belts whereby the hulls are removed by the differential action of said belts, conveying means extending beyond one of said belts, and air suction means comprising a pair of vertically disposed pipes arranged above said extended conveying means and spaced apart therealong with the suction ends near the upper surface thereof, whereby an air current is adapted to remove the hulls from the kernels.

1,350,507. PORT-LIGHT. ALBERT HENRY KENNEWEG, Brooklyn, N. Y. Filed Apr. 16, 1920. Serial No. 374,345. 5 Claims. (Cl. 114—176.)



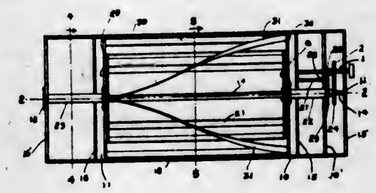
1. The combination with a port light of a member rotatably mounted thereabout and means actuated by the rotation of said member for opening and closing said port light.

1,350,508. CONNECTOR FOR BAND-BRACELETS. SIGMUND L. LEDERER and GEORGE U. MEYER, Providence, R. I., assignors to Providence Stock Company, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 8, 1919. Serial No. 270,225. 1 Claim. (Cl. 24—265.)



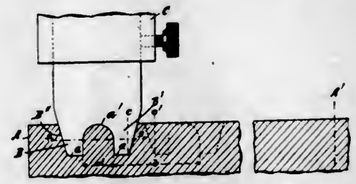
A bracelet connector comprising a frame member of sheet stock folded to form two spaced-apart loops the stock forming one of the walls of the loop having a middle resilient attaching tongue, and a socket member for housing the end of the bracelet provided with a pivot pin engaging said loops for hinging said two members together.

1,350,509. SAND AND SLIME SEPARATOR. JAMES D. MCDONALD, Hayden, Ariz. Filed Aug. 5, 1918. Serial No. 248,363. 3 Claims. (Cl. 83—81.)



1. In a slime and sand separator, the combination with a casing having an inlet at one end, a slime outlet at the other end, and a sand outlet at one side; of an outer reel rotatably mounted within the casing and having blades moving past said sand outlet, and an inner reel mounted within the outer reel and rotating in the opposite direction, both reels having skeleton heads.

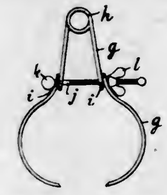
1,350,510. TALKING-MACHINE RECORD, AND METHOD AND TOOL FOR MAKING SUCH RECORDS. FREDERICK W. MATTHEWS, West Orange, N. J., assignor, by mesne assignments, to Arrow Phonograph Corporation, a Corporation of Delaware. Filed Feb. 20, 1918. Serial No. 218,195. 18 Claims. (Cl. 274—42.)



2. A master sound record having a laterally undulatory record ridge formed integral with the body of the record.

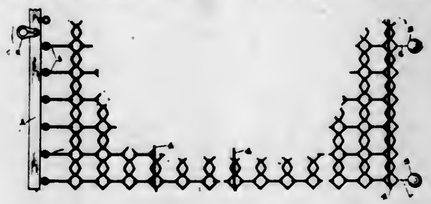
18. The method which consists in cutting simultaneously like undulations in both sides of a record ridge by means of a laterally-vibrating tool having cutting edges in simultaneous engagement with opposite sides of such ridge.

1,350,511. DIVIDERS, CALIPERS, AND LIKE INSTRUMENT. JOHN HENRY KEELEY MILLER, Clapham, London, England. Filed Nov. 6, 1919. Serial No. 336,041. 3 Claims. (Cl. 33—154.)



1. An instrument of the class described, comprising a single length of wire bent to form a spring looped at the top and bent also to form bolt-receiving loops in the legs, a threaded adjusting bolt passing through the loops in the legs and having nuts adapted to engage said loops.

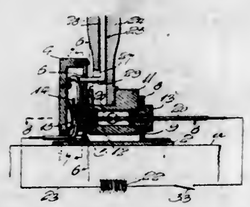
1,350,512. HARROW FOR ELIMINATING QUACK-GRASS AND THE LIKE. ALEXANDER MOWATT, Warkworth, Ontario, Canada, assignor, by direct and mesne assignments, of one-third to James H. E. Vrooman, one-third to Burton Asselstine, and one-third to Elsworth Mastin, Bellville, Ontario, Canada. Filed Sept. 25, 1919. Serial No. 326,118. 2 Claims. (Cl. 55—32.)



1. An implement of the class described comprising a draw bar; a chain drag connected therewith comprising a plurality of rows of connected links extending both longitudinally and transversely of the device, one series of rows of links being formed of rectangular links of substantially square cross section, the drag being formed in two sections, the links of the forward section being of substantially the same size as the links of the rear-

ward section, but of greater cross sectional area, the total weight of the rearward section being made substantially the same as that of the forward section by the inclusion therein of a larger number of links.

1,350,513. SIGNAL FOR MOTOR-VEHICLES. RANT Y. NEELY, Willamina, Oreg. Filed Oct. 9, 1919. Serial No. 329,558. 3 Claims. (Cl. 116—54.)



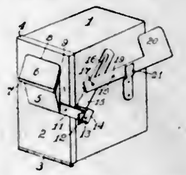
1. A signal comprising spaced bearing plates having openings formed therein, a signal arm having a head positioned between said plates, one of the plates being provided with an arcuate slot having side notches, trunnions extending through the openings of said plates and screwed into the head of said arm to pivotally mount the arm, a handle carried by the head of said arm and having a longitudinally extending passage having its outer end portion enlarged and provided with a side opening, a locking plunger slidable in the passage of the handle and having its inner end portion bent to provide a finger extending through the side opening and into the arcuate slot, and resilient means in the enlarged portion of the passage engaging the plunger to yieldably retain the same in a set position with the finger in one of the side notches of the arcuate slot.

1,350,514. BROOM-HOLDER. HARRY D. NEFF, Cambridge, Mass., assignor to Re-Flilt Broom Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1919. Serial No. 288,834. 2 Claims. (Cl. 15—19.)



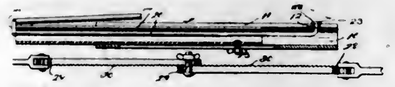
1. A brush holder consisting of a hollow casing downwardly and outwardly flared and shaped at its upper end to provide a flat internal seat for a plurality of bundles of brush fibers inserted into said holder from below and having a cut-out in one vertical wall below said seat of the width of at least one bundle of brush fibers, said casing between the upper edge of said cut-out and the said seat constituting a butt receiving compartment of substantially uniform width, and below said upper edge of the cut-out tapering inwardly and widening laterally to provide opposed clamping edges adapted to clamp the inserted brush bundles against endwise movement while permitting limited lateral expansion thereof, and a removable spring closure for said cut-out shaped to conform to the casing at said cut-out and clamping the underlying brush bundle against the opposed wall of the head.

1,350,515. MAIL-BOX. OSBORN RICHARD PAYNE, Oelwein, Iowa. Filed May 29, 1919. Serial No. 300,754. 1 Claim. (Cl. 133—14.)



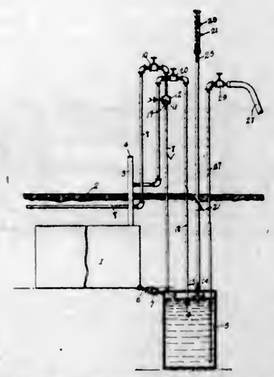
A mail box open at one end, a closure hinged to the lower horizontal edge of the box at said opening to swing vertically, a downwardly diminished open top receptacle mounted on the outside of said closure, and a cover for said receptacle hinged to said closure and marginally flanged downwardly to inclose the open end of the receptacle, the cover swinging open by gravity when the closure is swung downwardly to its opened position.

1,350,516. FOLDING COT AND STRETCHER. FREDERICK W. PFEIFER, St. Louis, Mo. Filed Sept. 13, 1918. Serial No. 253,944. 1 Claim. (Cl. 5—5.)



In a structure of the class described, the combination with side rails each made up of outer and inner tubular telescopic sections having alined slots in their upper sides and the outer section having a longitudinal slot in its lower side, a stud bolt projecting from the inner section through the last-named slot and receiving a nut for holding the sections relatively adjusted, and folding legs for supporting said rails and braces for holding them separated when so supported; of a flexible bottom connecting said rails and passing downward through their upper slots, its edges having longitudinal tubular pockets, in each pocket a rod made in sections, a hinge connecting the sections end to end at a point to be exposed when said tubular sections are telescoped together whereby one rod section and the bottom thereon can be folded over onto the other section, and connections between the remote end of the other rod section and the larger tubular section.

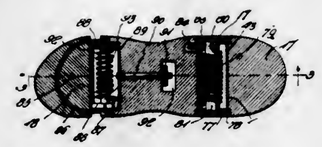
1,350,517. COMPRESSED-AIR DEVICE FOR HANDLING GASOLENE. WILEY H. PRIDGEN, Creek, N. C. Filed Nov. 21, 1919. Serial No. 339,721. 3 Claims. (Cl. 221—100.)



1. In a device of the class described, a measuring vessel; a storage tank discharging by gravity into the vessel;

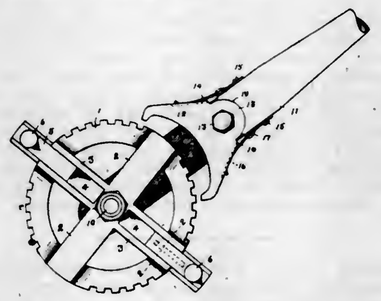
a valve controlling the passage of liquid from the tank to the vessel; a liquid discharge pipe extending into the vessel; means for supplying air under pressure to the vessel; a valve controlling said means; a valve controlling the egress of air from the vessel; and valve-controlled means for returning surplus liquid from the vessel to the tank.

1,350,518. ARTIFICIAL LEG. GEORGE W. PRISBREY, St. George, Utah, assignor of one-third to Grant Prisbrey, St. George, Utah. Filed Aug. 1, 1919. Serial No. 314,739. 13 Claims. (Cl. 3—6.)



1. In an artificial leg, a leg section, a foot section, a joint member pivotally connected to the leg section and pivotally connected to the foot section, and elastic means to swing the leg section and foot section about their pivoted connections, the axes of said pivotal connections crossing one another to permit different angular movements of the leg section and foot section relative to said joint member.

1,350,519. PIPE-FLANGE WRENCH. JOSEPH M. PUKELL, Duluth, Minn. Filed Mar. 26, 1920. Serial No. 369,040. 2 Claims. (Cl. 81—63.)



2. A wrench of the character described comprising a ratchet wheel, radially disposed opposed slots upon the outer face of the wheel, arms mounted in said slots radially adjustable beyond the wheel, pins rigidily fixed adjacent the outer ends of the arms for engagement with an object to be turned, and a handle pivotally mounted centrally upon the opposite side of the wheel carrying means for intermittent engagement with the ratchet wheel for turning it in either direction as desired.

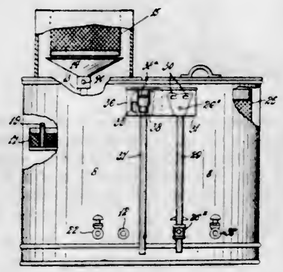
1,350,520. SEPARABLE BROOM-HEAD AND FILLER THEREFOR. MARTIN RASMUSSEN, Racine, Wis., assignor to A. R. Tesch, Milwaukee, Wis. Filed Aug. 28, 1919. Serial No. 320,433. 1 Claim. (Cl. 15—19.)

A demountable broom comprising a handle tapered at one end, two half-shell clamping members encircling the broom handle and pivoted to the same near the tapered end thereof, and provided with registering perforations, the central portion of the lower edge of the half-shell clamping members being formed upon an arcuate line whereby the clamping engagement of the said members with the filler on an elongated line is effected, in combination with a separable filler composed of strands united by rows of stitches and eyelets passing from one side of the filler to the other, the filler having an opening



into which the tapered end of the handle is wedged, and bolts passing through the perforations in the half-shell members and the eyelets to clamp the filler to the handle.

1,350,521. OIL-FILTER. RICHARD WEST ROOTS, Ballarat, Victoria, Australia, assignor of one-third to Stanley Roots, Ballarat, Victoria, Australia, and one-third to James Falconer, Wellington, New Zealand. Filed Feb. 1, 1919. Serial No. 274,473. 2 Claims. (Cl. 210—43.)

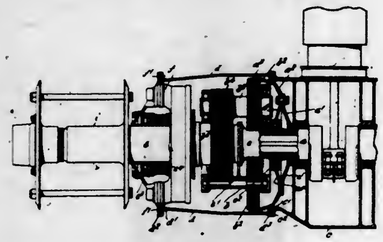


1. In an oil filter, a container adapted to contain heated water, a series of superposed gauze traps within the container of different diameters and having solid metal roofs, a hollow vertical spindle attached to the traps and discharging into the lowest and smallest trap, short pipes interposed between the gauze traps having their lower ends terminating near the bottom of the traps and their upper ends near the roofs of the traps, substantially as set forth.

1,350,522. EPICYCLIC GEARING. FREDERICK HENRY ROYCE, Derby, England, assignor to Rolls-Royce Limited, Derby, England. Filed Nov. 4, 1919. Serial No. 335,630. 2 Claims. (Cl. 74—56.)

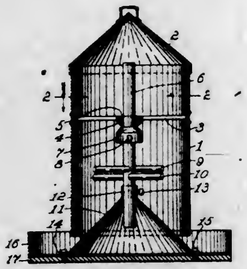
1. The combination of a driving and a driven member and gearing between said members, an end bearing for the driven member and means for adjusting the alinement of said end bearing in relation to the driving member, said means comprising a casing having an annular spigot, coaxial with the driven member, a second casing engaging at one end with said spigot and rotatable in relation to the first casing, said second casing terminating at its other end in an annular recess eccentric with re-

gard to the spigot, a housing supporting the aforesaid end bearing and a flange carried by the housing and ec-



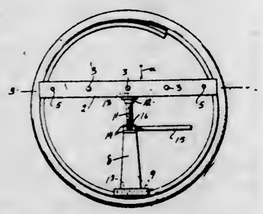
centric thereto, said flange engaging the annular recess in the second casing whereby the housing is rotatable in relation to said second casing.

1,350,523. ANIMAL-FEEDING DEVICE. JESSE R. ROYER, Janesville, Iowa. Filed Feb. 17, 1920. Serial No. 359,352. 2 Claims. (Cl. 119—53.)



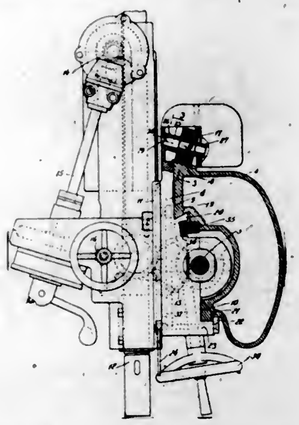
1. In an animal feeding device, a receiving vessel, a standard erected therein, a sleeve monted on said standard, a hollow body positioned around said standard having a convex base supported on said sleeve for rotatory and oscillatory movements, and an open-ended hopper supported on said hollow body, with its open lower end spaced from said receiving vessel.

1,350,524. WHEEL OR RIM SPREADER. ORA K. SAUDER, Grabill, Ind. Filed Aug. 11, 1919. Serial No. 316,761. 3 Claims. (Cl. 157—1.)



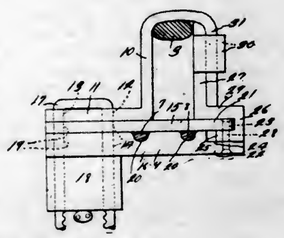
1. In a spreader of the kind set forth, the combination with a body having projecting spaced ends extending beyond the end of the body, of anti-frictional rollers journaled in said spaced ends adapted to engage substantially diametrically opposite portions of the rim, and means cooperating between the body and a portion of the rim at right angles to the point where the anti-frictional members engage the rim, to operate the spreader to cause the ends of the rim to spread apart, said means comprising a base member having a groove to engage and receive the rim, a screw threaded in the base member and having a swiveled head coacting against the body member of the spreader and means for imparting an intermittent motion to the screw.

1,350,525. SADDLE AND HEAD SUPPORTING MECHANISM FOR DRILLING-MACHINES. WILLARD T. SEARS, Brooklyn, N. Y., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed July 20, 1918. Serial No. 245,859. 6 Claims. (Cl. 77—28.)



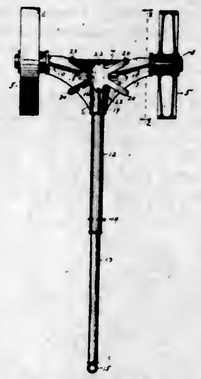
1. The combination in a radial drilling machine of an arm having two horizontal guideways at the front side thereof, a saddle engaging the guideways and movable therealong, the saddle having a surface engaging the bottom surface of one of the guideways, a drill head carried by the saddle, rollers connected with the saddle and engaging the top surface of the upper guideway which is inclined downward toward the rear, and means for adjusting the rollers with respect to the saddle to effect engagement between the said bottom surface of the guideway and the corresponding surface of the saddle.

1,350,526. LOCK FOR STEERING MECHANISMS. OSCEOLA C. SLAUGHTER, Omaha, Nebr. Filed Oct. 10, 1919. Serial No. 329,853. 2 Claims. (Cl. 70—126.)



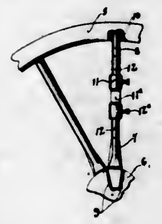
1. A lock for locking the spark and throttle levers to the steering wheel of an automobile, said lock comprising a U-shaped member adapted to arch one of the spokes of the steering wheel, one arm of said U-shaped member having pivoted thereto a pair of horizontally pivoted members, said members being adapted to receive therebetween the spark and throttle levers and means for locking the free ends of the horizontally pivoted members to the free arm of the U-shaped member.

1,350,527. AUTO-AMBULANCE TRUCK. JOSEPH H. STALEY, Columbus, Ind. Filed Nov. 24, 1919. Serial No. 340,373. 3 Claims. (Cl. 280—61.)



2. In a wrecking truck, a one-piece cylindrical wrought axle; a pair of wheels loosely mounted on the axle; a body comprising horizontal plates with integral depending blocks cast rigidly to the axle, said body having a standard integral with and above said horizontal plates with a vertical opening in the standard in front of the axle; a pipe vertically adjustable in the standard; means above the horizontal plates for holding a given adjustment; a saddle with a plurality of radial horns oblique to a plane in the axis of the pipe parallel with the axle of the truck fixed on the pipe; said body having ap integral and substantially horizontal hollow member in front of the axle; and a tongue in a plurality of telescoping sections fastened in said horizontal hollow member.

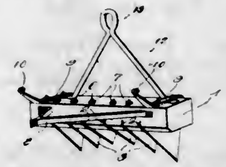
1,350,528. WHEEL-SPOKE-REPAIR MEANS. RICHARD A. STOUTE, Branksmere, Barbados, British West Indies; Jabez Griffith Corbin Ward and Arthur Laurie Parkinson Stoute, executors of said Richard A. Stoute, deceased. Filed Mar. 22, 1918. Serial No. 224,041. 3 Claims. (Cl. 301—104.)



3. An emergency spoke element for wheels comprising a spoke section adapted at one end to enter a socket in the hub and having a reduced tenon at its outer end, a socket member having spurs adapted to enter the felly, a second spoke section having tenons at its extremities whereof one engages said socket member, and an expansible coupling composed of a central member threaded at both ends and end members screwed onto the central member and having sockets in their outer ends receiving the tenons of said spoke sections.

1,350,529. VINE-CUTTER. GEORGE W. STUART, Bay Minette, Ala. Filed Nov. 13, 1919. Serial No. 337,648. 4 Claims. (Cl. 55—60.)

1. A vine cutter comprising a blade-carrying block elongated transversely of the line of draft, a plurality of rearwardly and downwardly inclined blades secured to the bottom of said block and disposed parallel to the line of draft, and a substantially V-shaped spreader secured to the front edge of said block and extending forwardly beyond it, whereby when the divice is drawn over the vines, the spreader will engage and deflect them laterally and downwardly beneath the cutting edges of the blades.



2. A vine-cutter comprising a blade carrying member, and a plurality of spaced rearwardly and downwardly inclined blades secured to the bottom of the carrying member, the cutting edges of the blades being of different distances from the bottom of the carrying member, the distance of the blades nearest the ends of the carrying member being the greatest and the distances of the others being gradually decreased toward the center of the carrying member, whereby the blades will conform to the shape of the ridges over which they are drawn.

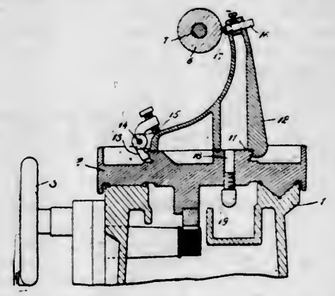
3. A vine-cutter comprising a blade carrying block having a plurality of spaced transverse slots in its bottom, a cutting blade fitted in each slot, and a plurality of hook-shaped fastening bolts, each bolt being extended through the block and engaged with the blades to retain the latter in the slots.

1,350,530. FISHING-FLOAT. ERNEST TALBOT, Lowestoft, England. Filed Oct. 29, 1919. Serial No. 334,118. 4 Claims. (Cl. 43—49.)



2. A float according to claim 1 in which the tapering end-parts are each constituted by winding the strip spirally upon itself to form a coil and thereafter withdrawing the center portion in an axial direction from the outer circumference of the so-formed coil, eyelets being wound into the convolutions of the coil.

1,350,531. WHEEL-DRESSING MECHANISM. JOHN J. THACHER, Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 1, 1918. Serial No. 256,428. 11 Claims. (Cl. 125—11.)



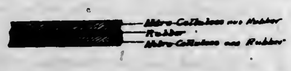
1. A wheel dressing mechanism for a grinding machine comprising, in combination, a hollow bracket connectible with a slide of the machine whereby it is guided for movement in a fixed path along the face of the grinding

wheel, a dressing tool carried by the bracket, means for supplying water to the interior of the bracket, and a duct for delivering water from the interior of the bracket to the wheel immediately adjacent the dressing tool.

1,350,532. PROCESS OF TREATING FILTRATION MEMBRANES. JUSTIN F. WAIT, Buffalo, N. Y. Filed Jan. 3, 1920. Serial No. 349,335. 4 Claims. (Cl. 210—9.)

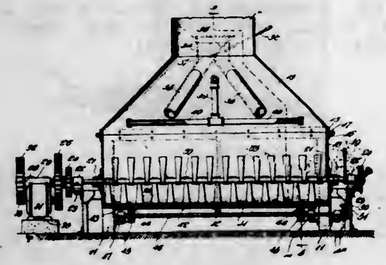
1. The process of preparing membranes for filtering uses consisting of supplanting the water contained in such membrane by a medium miscible both with water and the fluid to be filtered.

1,350,533. ARTICLE OF MANUFACTURE AND PROCESS FOR MAKING THE SAME. CHARLES WEBER, Newark, N. J. Filed Sept. 14, 1918. Serial No. 254,050. 10 Claims. (Cl. 154—2.)



1. A flexible, tough and substantially water-proof sheet of material made up of uniform intimately united layers, one of said layers being composed of nitro-cellulose and rubber and the adjacent layer being composed of rubber.

1,350,534. HYDRATOR FOR LIME. FRANZ W. WEBER, Woodville, Ohio. Filed Apr. 12, 1920. Serial No. 373,302. 4 Claims. (Cl. 222—4.)



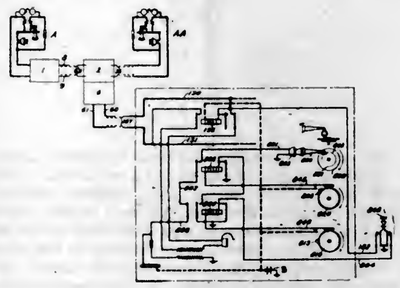
1. A hydrator comprising a receptacle including an upper hood section provided with a stack, a hopper positioned to one side of the hood of the receptacle, spouts extending downwardly from the bottom of the hopper in diverging relation and extending into the receptacle through the hood section thereof, a closure pivotally mounted in the lower portion of the hopper for selectively closing the entrance to one spout and directing material into the second spout, means for adjusting the position of the closure, mixing means in the receptacle, and water spraying means in the receptacle.

1,350,535. HAT-VENTILATOR. CHARLES ROBERT WILLIAMS, Omaha, Nebr. Filed Nov. 12, 1919. Serial No. 337,378. 3 Claims. (Cl. 2—114.)



1. In combination with a hat having a sweat band therein, of a pivoted member secured to said sweat band, said pivoted member being provided with a pair of flexible arms adapted to extend in a horizontal plane and engage the head of the user of the hat and maintain a space between the sweat band and the head of the wearer, said flexible arms by their flexibility allowing the hinged member and the arms to be disposed behind the sweat band when not in use.

1,350,536. TELEPHONE-EXCHANGE SYSTEM. JOSEPH L. WRIGHT, Cleveland, Ohio, assignor to James R. Garfield, trustee, Cleveland, Ohio. Original application filed Feb. 26, 1912, Serial No. 680,015. Patent No. 1,244,571, dated Oct. 30, 1917. Divided and this application filed July 12, 1917. Serial No. 180,132. 6 Claims. (Cl. 179—6.)

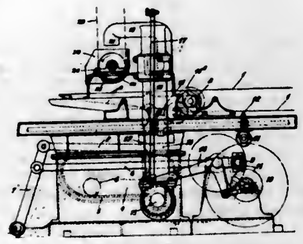


1. In a telephone system, the combination with a subscriber's line, of a transmitter adapted to be connected thereto, sound-producing means associated with the transmitter, and adapted to produce message impulses in the circuit of the latter, means for actuating the sound-reproducing means, and means for controlling the transmission of impulses to allow the same to begin only at a predetermined portion of a message.

1,350,537. VARNISHED-SURFACE BURNISHER. ROY A. ALEXANDER, Bellingham, Wash. Filed Nov. 24, 1919. Serial No. 340,236. 1 Claim. (Cl. 134—24.)

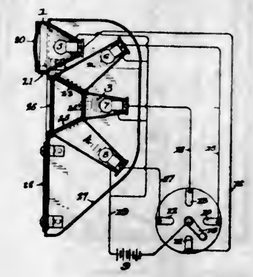
A composition resulting from a mixture of 4 oz. paraffin oil, 1½ oz. turpentine, 3 oz. alcohol, ½ oz. acetic acid, ½ oz. ammonia, 1½ oz. Putz pomade, 1 oz. ivory soap and 2 oz. water.

1,350,538. COATING OF CONFECTIONS AND THE LIKE. GEORGE RALPH BAKER, London, England, assignor to Joseph Baker and Sons Limited, London, England. Filed Feb. 14, 1920. Serial No. 358,570. 3 Claims. (Cl. 91—3.)



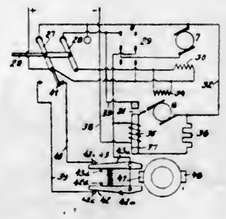
3. In apparatus for coating confectionery, the combination of an upper flooding vessel, an overflow surface or weir at one side of said vessel, a jacket for reception of a cooling medium for tempering the contents of said vessel, mechanical means for stirring the contents thereof, means for feeding coating substance to said upper flooding vessel, and means for maintaining said substance at desired temperature and consistency.

1,350,539. SIGNAL-LIGHT FOR AUTOMOBILES. WALTER H. BALTES, Milwaukee, Wis. Filed Dec. 10, 1917. Serial No. 206,566. 2 Claims. (Cl. 240—11.)



1. An automobile signal comprising a casing having an oblong opening in its face and a transparency therefor; a central lamp-containing compartment arranged within the casing in spaced relation to the transparency and formed with sides diverging toward the latter; a pair of convergently related lamp-containing compartments arranged within the casing respectively above and below the central compartment and also having sides diverging toward the transparency, said pair of compartments having their wider ends interposed between the casing and the wider end of the central compartment and secured to the casing, above and below the transparency; the smaller ends of the compartments adapted to contain sources of light; and legend-bearing transparent plates secured in the wider ends of the compartments in abutting relation with each other and the transparency.

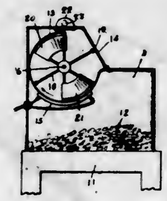
1,350,540. FEED MECHANISM FOR PLANERS. HAROLD L. BLOOD, Plainfield, N. J., assignor to Niles-Bement-Pond Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 19, 1916. Serial No. 126,523. 17 Claims. (Cl. 172—240.)



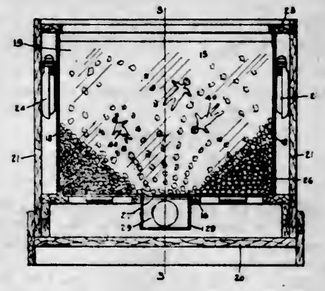
1. In a planer or other machine having a reciprocating table and an adjustable tool, the combination with the table and the tool, of a motor for feeding the tool, a table controlled mechanism for starting the motor at intervals as the table reciprocates, a device driven by the motor and connected to start simultaneously therewith, the said device serving after movement to a predetermined extent to stop the motor, and means whereby the amount of movement of the said device is limited independently of the amount of movement of the motor.

1,350,541. PEANUT-ROASTER. EARL C. BOOTH, Indianapolis, Ind., assignor to Holcomb & Hoke Manufacturing Company, a Corporation of Indiana. Filed Sept. 15, 1919. Serial No. 323,775. 4 Claims. (Cl. 34—7.)

3. A roasting machine having a cylindrical drum, means for heating the surface of said drum for roasting the contents thereof, a paddle wheel having a plurality of spokes thereon adapted to revolve within said drum, means for revolving said paddle wheel whereby the contents will be carried about the inner surface thereof, and a plate secured at each end to end spokes and passing over a diagonally mounted spoke near its center for causing said contents to be distributed toward the ends of said drum or gathered toward the center thereof whereby a uniform roasting will be effected.

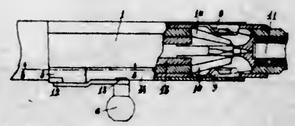


1,350,542. DISPLAY DEVICE. EARL C. BOOTH, Indianapolis, Ind., assignor to Holcomb & Hoke Manufacturing Company, a Corporation of Indiana. Filed Dec. 23, 1919. Serial No. 347,029. 9 Claims. (Cl. 40—126.)



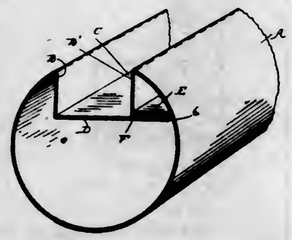
1. A display device for vending machines including a display chamber having a transparent front and adapted to be partially filled with articles to be displayed, and means for upwardly projecting the articles to be displayed, whereby they will attract attention.

1,350,543. AUTOMATIC FIREARM. KARL AUGUST BRÄUNING, Zaandam, Netherlands. Filed July 10, 1919. Serial No. 309,918. 1 Claim. (Cl. 42—3.)



In an automatic firearm of the kind described, a fixed breech frame, a breech bolt, locking members arranged on said breech bolt, a slide movable on the breech frame adapted to act on the locking members and to open the breech, a fixed abutment on the fixed breech frame, and a lever pivotally mounted on said slide the longer arm of which is provided with an actuating knob while the shorter arm is applied against the aforesaid abutment of the fixed breech frame.

1,350,544. CHANNEL-TUBING. M LEWIS BROWN, Detroit, Mich., assignor to Universal Metal Company, Detroit, Mich., a Corporation of Michigan. Filed May 25, 1914. Serial No. 840,656. 5 Claims. (Cl. 189—77.)



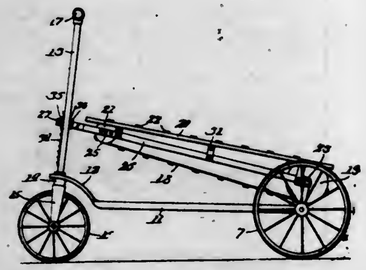
1. A channel tubing comprising a fashioned sheet metal blank having an integral channel portion comprising two sides and a bottom and an outer surrounding portion, the opposite edges of said blank meeting at one corner of the channel portion and being bent to form a lock seam with the thickness of the seam located in the space between one side of the channel portion and the outer tubing and engaging said outer tubing.

1,350,545. COMBINED NUT AND WASHER. WALTER HERBERT COOK, London, England. Filed Apr. 23, 1919. Serial No. 292,032. 5 Claims. (Cl. 151—25.)



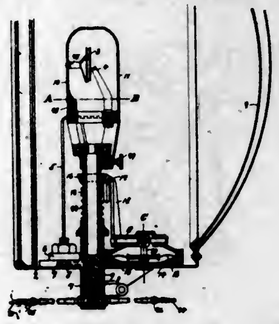
2. A combined nut and washer, comprising a nut adapted to be screwed upon a bolt or the like, a washer, said washer being apertured centrally to clear the bolt but having prongs adapted to be forced inwardly to engage the bolt, thereby fixing the washer to the bolt, and means for securing said washer to said nut, said means normally allowing relative rotation but preventing axial movement.

1,350,546. TREADMILL PLAY-CART. CHARLES B. CULVER, Cherry Valley, Ill. Filed Jan. 27, 1919. Serial No. 273,283. 8 Claims. (Cl. 208—38.)



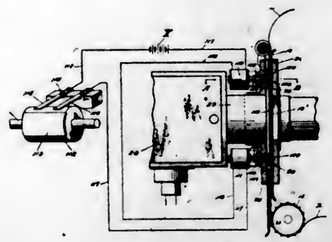
2. A device of the character described comprising a wheeled frame having a rear drive wheel and a front steering wheel, means for steering said wheel, an endless tread mill having a driving connection with said driving wheel, and means for varying the inclination of the tread mill.

1,350,547. SEARCH-LIGHT APPARATUS. GUSTAF DALÉN, Lidingön, Stockholm, Sweden, assignor to Svenska Aktiebolaget Gassaccumulator, Stockholm, Sweden. Filed Jan. 23, 1917. Serial No. 143,948. 7 Claims. (Cl. 240—41.)



1. A search light apparatus, comprising in combination a source of light, a screen device comprising a fixed member and a rotary member, a conduit for conveying an illuminating medium to said source of light, means for controlling the flow of illuminating medium, and means directly connected with said conduit and actuated by the illuminating medium flowing therein, for moving the rotary member out of screening position when said medium commences to flow and means for moving the rotary member back into screening position when the medium ceases to flow in said conduit, for the purpose set forth.

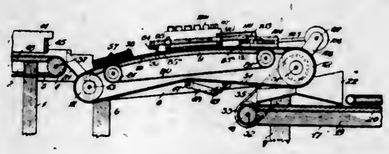
1,350,548. FILM-GATE AND TENSION MEANS FOR MOTION-PICTURE MACHINES. JOHN DARBY, Summit, N. J., assignor of one-half to Edwin F. Flindell, Summit, N. J. Original application filed Mar. 1, 1918, Serial No. 219,752. Divided and this application filed Dec. 11, 1918. Serial No. 266,250. 4 Claims. (Cl. 88—17.)



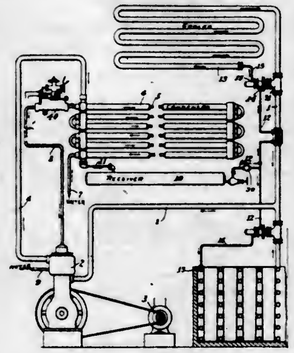
1. In a motion picture projecting machine, an intermittent tension device for the film strip, consisting of two vertical members connected by two cross members, pins in said cross members and electromagnets to act upon said pins to move said tension device.

1,350,549. NUT-BLANCHING MACHINE. JOSEPH M. DEMERATH, Rochester, N. Y. Filed Dec. 19, 1918. Serial No. 267,532. 21 Claims. (Cl. 146—14.)

1. In a nut blanching machine, the combination of a table, a plurality of slotted conveyers movable over said table, means for feeding nuts to said conveyers, an abrasive sheet supported on said table beneath said conveyers, and means for rolling and pressing nuts in said conveyers into contact with said abrasive sheet.

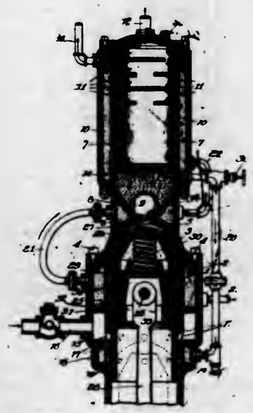


1,350,550. REFRIGERATING APPARATUS. JOHN F. HOFFMAN, Rochester, N. Y. Filed June 26, 1918. Serial No. 242,054. 17 Claims. (Cl. 62—8.)



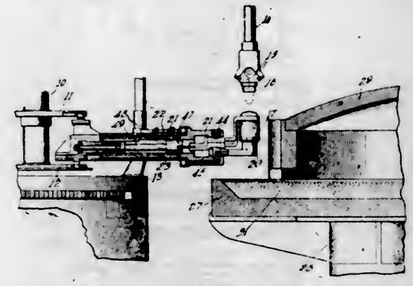
1. In a refrigerating system, a cooling surface, and a valve for controlling the liquid supply to said surface controlled jointly by the pressure of the liquid supply and the temperature of the discharge from the cooling surface and having provision for cutting off said liquid supply with a reduction of pressure in the liquid supply.

1,350,551. ART OF LUBRICATION. WILLIAM M. JEWELL, Chicago, Ill., assignor to Chlorine Products Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1917. Serial No. 207,462. 9 Claims. (Cl. 230—6.)



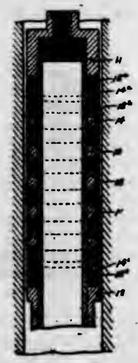
1. In the art of lubrication, the method which consists in lubricating contacting surfaces, one or both of which is movable with relation to the other, by interposing a lubricant between the same consisting of comparatively dry sulfuric acid under conditions excluding outside moisture.

1,350,552. GLASS-GATHERING MECHANISM. AUGUST KADOW, Toledo, Ohio, assignor to The Westlake Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed May 25, 1917. Serial No. 170,895. 19 Claims. (Cl. 49—62.)



3. In apparatus for manufacturing glass, the combination of a vessel to contain molten glass, gathering mechanism and means for moving the same over the glass in said vessel, said mechanism comprising a gathering mold, an oscillatable elbow-shaped supporting device for the mold, means for oscillating the same while the gathering mechanism is over said vessel so as to bring the gathering end of the mold into and out of contact with said glass, said mold comprising separable elements, and means for opening and closing the same.

1,350,553. OIL-WELL PACKER. PATRICK H. MACK, Bradford, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 23, 1915. Serial No. 62,962. 6 Claims. (Cl. 166—10.)

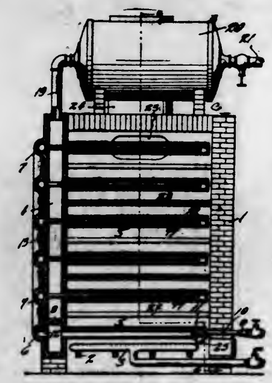


1. In packing structures for wells, a tubular body member, opposing recessed end members carried thereon, an upper expansible member entered in one end member, a lower expansible member entered in the opposite end member, a series of expansible members intermediate the upper and lower expansible members, and a series of rigid members alternating with the intermediate expansible members.

1,350,554. STEAM-GENERATOR. ROLAND B. MANNING and LEE R. MOORE, Dallas, Tex. Filed Mar. 17, 1919. Serial No. 283,177. 7 Claims. (Cl. 122—316.)

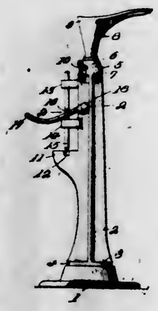
1. In a steam generator, a heating casing, a substantially vertical drum disposed near the heating casing

and provided in its lower portion with a cross partition forming a separate chamber, preheating tubes arranged within the heating casing and leading into the separate chamber, heating means for the heating casing, spaced tubular fingers arranged in superposed relation within the heating casing above the preheating tubes and leading



into the drum, supply tubes extending longitudinally within the tubular fingers and provided with outlet means, separate means of communication between the outer ends of the supply tubes and the separate chamber, and steam outlet means having communication with the upper portion of the drum.

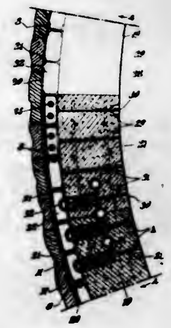
1,350,555. REPAIR JACK-STAND. JAMES P. MARSHALL, Indianapolis, Ind. Filed Mar. 29, 1920. Serial No. 369,690. 1 Claim. (Cl. 12—123.)



A jack stand having a standard substantially cross-shaped in cross section, one of the arms being provided with an extension having a notch, said arm being provided with bearings, a punch slidably mounted in said bearings having a notch and a lever pivotally mounted on said standard working in the notch of said punch for reciprocating said punch toward and from the notch in the extension.

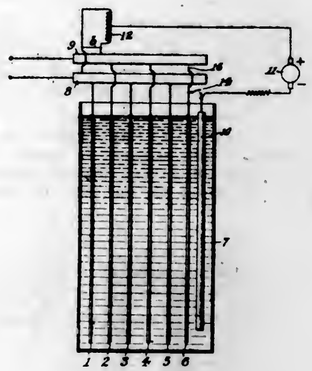
1,350,556. TUNNEL-LINING. JAMES C. MEEM, Brooklyn, N. Y., assignor of one-half to Frederick L. Cranford, Brooklyn, N. Y. Filed Apr. 24, 1919. Serial No. 292,306. 7 Claims. (Cl. 61—45.)

1. A tunnel lining comprising an outer wall lining of metal forming a series of inwardly opening cells provided with locking parts, an adjacent inner lining of blocks also provided with locking parts, and means for



introducing a binding material into said cells to interlock the locking parts of the cells and blocks together.

1,350,557. WELDING CONDENSER PARTS. RALPH D. MERSHON, New York, N. Y., and PERCY A. ROSS, Norwalk, Conn.; said Ross assignor to said Mershon. Filed Dec. 8, 1919. Serial No. 343,267. 6 Claims. (Cl. 219—10.)



1. The method of making a welded connection between the terminal of an electrode of a condenser and a bus-bar to which one or more other electrodes of the condenser are connected, the method comprising charging the condenser and discharging it through the joint between the terminal of the electrode and the bus-bar.

1,350,558. SCREW DRIVER AND PLACER. ISAIAH LEWIS MESSENGER, McGraw, N. Y. Filed Sept. 8, 1919. Serial No. 322,279. 2 Claims. (Cl. 145—52.)

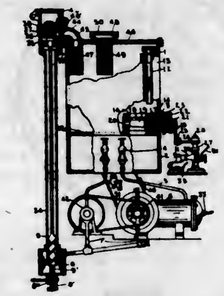
1. An implement as described comprising a tubular handle having a slot, jaws pivotally connected together,

one of said jaws having a stud which is received in the slot, the jaws being provided with recesses, and a bit



slidably mounted with relation to the jaws and having a cross pin adapted to enter the recesses.

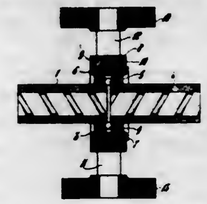
1,350,559. AUTOMATIC TRACTOR-OILER. ARTHUR E. MODRELL, near Saxton, Mo. Filed Mar. 20, 1920. Serial No. 367,500. 4 Claims. (Cl. 184—6.)



3. An oil storage tank; a tank lid detachably secured on said tank said lid having a filling opening and oil conducting means formed therethrough; a sediment collecting chamber formed integrally with the bottom of said tank; a cock casing formed integrally with said tank on the upper side of the bottom thereof; a cock body tightly secured in said cock casing; a cock stem oscillatably mounted in said cock body, said casing, said cock body and said cock stem having ports formed therethrough in register with each other; a crank on the outer end of said cock stem; an oscillatably mounted L crank; a connecting rod whereby one end of said L crank is connected with said cock crank; an electric circuit closer connected with said L crank for oscillation thereby; a manually operated pull rod one end of which is connected with the other end of said L crank; a plurality of sight feed oil conducting means whereby oil is conducted from the upper portion of said sediment chamber into the working parts of mechanisms; an oil well; oil draining means whereby oil is drained from said working parts of said mechanisms into said oil well; an oil box having an opening formed through one side thereof in register with the oil conducting means of said tank lid; and oil elevating means whereby oil is elevated from said oil well into said box.

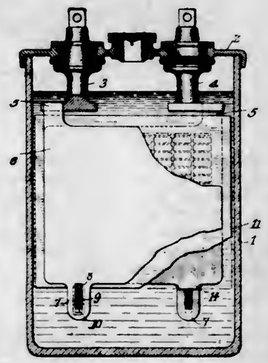
1,350,560. REVERSIBLE TRAVERSING MOTION. HENRI ARNOLD JOHANNES DE BIJLL NACHENIUS, Haarlem, Netherlands. Filed Apr. 29, 1919. Serial No. 293,461. 5 Claims. (Cl. 74—40.)

1. In a traversing motion, the combination of a screw having both right-hand and left-hand threads thereon; nuts coactive with said threads, each nut having a friction surface; a traversing member having friction surfaces for coaction with those on the nuts; and means dis-



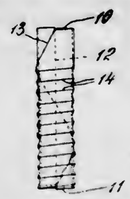
posed at the opposite ends of the screw for coaction with said nuts to effect automatic reversal of the traversing member.

1,350,561. STORAGE BATTERY. IRVINE M. NOBLE and WALTER E. GOSSLING, Indianapolis, Ind., assignors to The Prest-O-Lite Company, Inc., a Corporation of New York. Filed Aug. 26, 1918. Serial No. 251,359. 2 Claims. (Cl. 204—29.)



1. The combination in a storage battery with the group of elements, the outside negative plates of which are provided with slotted projections or extensions from their lower edges, of insulating bridge strips supported by the slots in said projections and extending beyond the surface of the same substantially to the walls of the battery cell, and forming supports for the intermediate positive plates and separators, the bridge strips being formed with shoulders which engage with the outer surfaces of the projections to prevent spreading of the elements, and soft rubber caps applied over the ends of the bridge strips to form cushions between the same and the walls of the cell.

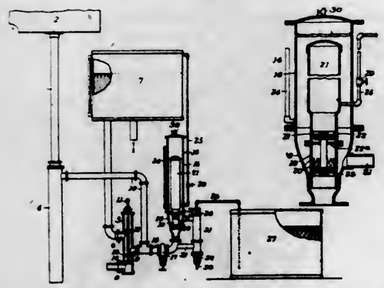
1,350,562. FOLDED METAL EXPANSION-SHIELD. JOHN EDWARD OGDEN, Cornwall, N. Y. Filed Mar. 29, 1919. Serial No. 286,146. 14 Claims. (Cl. 85—2.4.)



5. An expansion shield formed of a blank of sheet metal having a smaller transverse dimension at one end

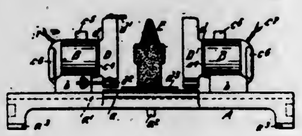
than at other parts thereof, rolled around a central axis into a tube formed to receive the threads of a bolt, a part of the bore of said tube being arranged to be restricted in at least one of its transverse dimensions before a bolt is inserted therein, and a metal of said blank being wrapped around itself near the part of the shield having the restricted bore.

1,350,563. HYDRAULIC ELEVATOR. JOSEPH P. OSCHGER, Chicago, Ill. Filed June 18, 1918. Serial No. 240,621. 10 Claims. (Cl. 138—8.)



1. In a hydraulic elevator, a pressure tank, an actuating cylinder, a supply and outlet pipe leading thereto, a controlling valve for said pipe, a cushioning reservoir connected to a branch of said pipe, a valve in said connection, an air chamber above said valve, and connections between said air chamber and the pressure tank for the elevator, substantially as described.

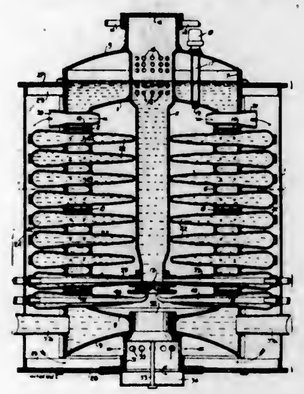
1,350,564. APPARATUS FOR USE IN MAKING CORES OR THE LIKE. ROSCOE C. PATTISON, Rochester, N. Y. Filed Sept. 2, 1919. Serial No. 320,969. 14 Claims. (Cl. 22—10.)

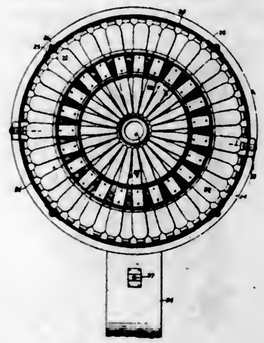


1. In an apparatus for forming sand, the combination with a sand-forming device, of a base having a part adapted to receive the sand-forming device, and a gripping device adapted to engage said forming device to aline the same on said base and adapted to be moved relatively to said base to move said forming device from the formed sand.

1,350,565. BOILER. JAMES P. PERRY, Glencoe, N. Mex. Filed Aug. 2, 1919. Serial No. 314,821. 4 Claims. (Cl. 122—161.)

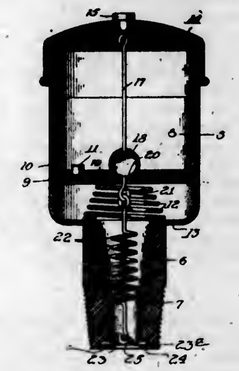
1. A steam boiler comprising; an inner boiler shell forming a fire box, an outer boiler shell forming an annular water space, a boiler jacket forming an outer heating space, water tubes inserted through the annular water space and projecting into the fire box and into the heating space, flues inserted through the boiler shells to conduct heat from the fire box to the outer heating space, a central water reservoir disposed through the fire box, and a ventilator tube centrally disposed in the boiler and provided





with perforations, a removable plug mounted in the ventilator tube to render accessible the boiler parts for inspection.

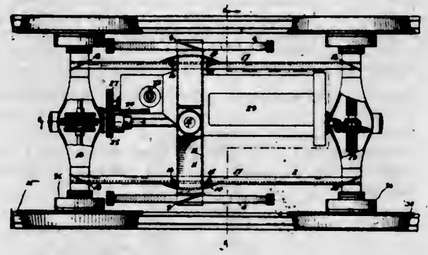
1,350,566. OIL-CUP. THOMAS G. PIHLFELDT and FELIX C. HARTUNG, Chicago, Ill. Filed Dec. 28, 1918. Serial No. 268,648. 9 Claims. (Cl. 184—45.)



7. An oil-cup comprising a body portion, a nipple attached to one end thereof, a cap fitting over the other end

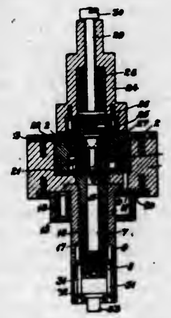
of said body portion, a centrally bored, perforated plunger movable within said body portion, a centrally-bored permeable membrane below said piston and movable within said body portion, a coiled spring below said permeable membrane and acting to force said membrane and piston outwardly, a swivelly mounted, tensed spring extending within the bore of the nipple, a ball attached to said spring and normally engaging the opening in said piston to close the same, and a link attached to said ball and to the cap.

1,350,567. RAILROAD-CAR. SOLOMON D. ROGERS, Sacramento, Calif., assignor to Commercial Cars Construction Co., San Francisco, Calif., a Corporation of California. Filed Nov. 15, 1916. Serial No. 131,365. 6 Claims. (Cl. 105—117.)



1. A motor car comprising a body, a truck for supporting the body, a motor supported on said truck, and an operative connection between said motor and a wheel axle of the truck, comprising the motor shaft, a worm operatively connected to said motor shaft and below the wheel axles of the truck, and a worm gear on one of said wheel axles meshing with said worm.

1,350,568. MACHINE FOR PRESSING RINGS HAVING PROFILED INNER SURFACES. PATRIK SAMUEL RYDBECK, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed July 19, 1919. Serial No. 311,997. 11 Claims. (Cl. 78—18.)



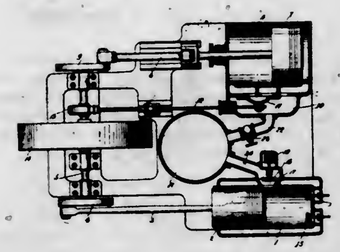
1. A machine for producing rings having a profiled inner surface, as for instance outer track rings of ball bearings, by upsetting tubular blanks in the longitudinal direction, comprising a mandrel, having outside the shape of the desired inner surface of the rings, said mandrel consisting of pairs of jaws movable with respect to each other to permit the placing of a tubular blank around the mandrel, means for supporting the blank during the upsetting operation, means for upsetting the blank placed on said supporting means and means for moving the said jaws to operative position.

1,350,569. SOFT-COLLAR HOLDER. SAMUEL SAMPSON, New York, N. Y. Filed July 3, 1920. Serial No. 393,782. 4 Claims. (Cl. 24—81.)



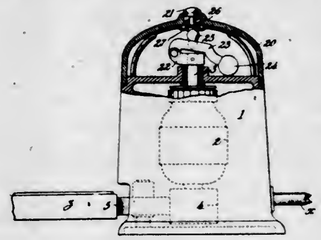
1. A soft collar holder comprising a plurality of resilient bars, each having an offset portion adjacent the center thereof, said offset portions being arranged to fit one within the other.

1,350,570. ENGINE. ERLING SARJENT, Kingfisher, Okla. Filed July 29, 1919. Serial No. 313,965. 2 Claims. (Cl. 60—15.)



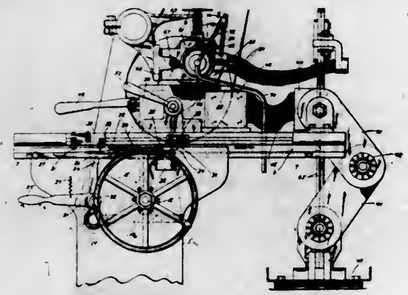
1. The combination with an expansion engine, and an internal combustion engine, of a gas container located between the engines, a pipe connecting the container with the valve chest of the expansion engine, said internal combustion engine having a port in its wall constituting a valve seat and located at a point which will be uncovered by the piston of the internal combustion engine as the latter reaches the end of its power stroke, a valve casing at the side of the cylinder inclosing the said port, a valve in said port, and a pipe connecting the tank with said valve casing, whereby the pressure of gas in the casing operates to maintain the valve in closed position.

1,350,571. PHONOGRAPH-MOTOR. WILLIAM GENTRY SHELTON, New York, N. Y. Original application filed Mar. 17, 1916, Serial No. 84,869. Divided and this application filed Oct. 31, 1919. Serial No. 334,800. 8 Claims. (Cl. 200—80.)



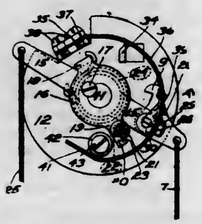
1. The combination with an electrically driven part capable of manual starting, and its electric motor, of a switch controlling the circuit to such motor, and a speed-actuated means controlled by the driven part for operating such switch, the switch adapted to close the circuit at normal speed and open it to stop the motor at a speed below the normal, whereby the motor may be put in or out of circuit by the manual starting or retarding of such part.

1,350,572. WELDING APPARATUS. HERBERT M. SMITH, Great Barrington, Mass., assignor to Stanley Insulating Company, Great Barrington, Mass., a Corporation of Maine. Filed Sept. 30, 1918. Serial No. 256,284. 7 Claims. (Cl. 219—4.)



1. In a device of the kind described a stationary electrode and a traveling electrode, the traveling electrode constituting a work holder, power-actuated means for moving the traveling electrode and automatically operating means for stopping the movement of the traveling electrode at a predetermined point in its travel.

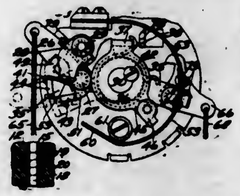
1,350,573. THERMOSTATICALLY-CONTROLLED DEVICE. RAYMOND D. SMITH, Milton, Mass., assignor to Tremont Products Company, Boston, Mass., a Corporation of Massachusetts. Filed July 24, 1916, Serial No. 110,952. Renewed Nov. 17, 1919. Serial No. 338,532. 20 Claims. (Cl. 67—87.)



1. In combination a thermostatically-controlled device embodying a member tensioned for movement and means thereon arranged to engage a movable detent; and a bimetallic, resilient thermostat rigidly mounted at one end, free of operative restraint to thermally caused movement at its other end, and carrying said detent mounted thereon remote from said mounted end;—the coöperative arrangement of said detent and of the rigidly mounted end of said thermostat relative to the path of movement of said means, and to the direction of pressure thereof on said detent, being such that said pressure tends to cause yielding flexure of said thermostat in a direction to retract said detent from engagement with said means.

1,350,574. RECIPROCATIVE ACTUATING MECHANISM. RAYMOND D. SMITH, Milton, Mass., assignor to Tremont Products Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 14, 1916, Serial No. 114,782. Renewed Nov. 17, 1919. Serial No. 338,533. 14 Claims. (Cl. 67—87.)

1. Actuating mechanism for operating a tension rotated device embodying, in combination with said device; a spring-connected actuator member arranged by movement to a relatively advanced position to tension said device for rotative follow-up movement; an automatically governed detent normally operative to prevent said follow-up movement of said device; a releasable detent for holding said member in its said advanced position when said device is so tensioned; and separately actuatable means



for tripping said automatically governed detent,—said means being operably related to said member and arranged to be rendered inoperative thereby except when said member is held in its said advanced position.

1,350,575. SELECTIVE ACTUATING MECHANISM. RAYMOND D. SMITH, Milton, Mass., assignor to Tremont Products Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 21, 1916, Serial No. 116,099. Renewed Nov. 17, 1919. Serial No. 338,674. 14 Claims. (Cl. 67—87.)

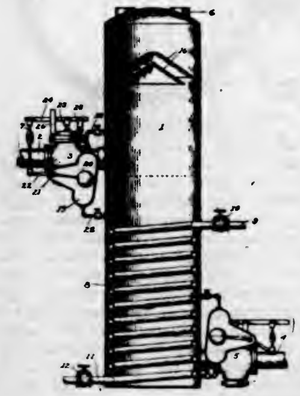


1. In combination with a rotary device adapted for limited reciprocative movement; a member pivoted concentrically with said device and arranged coöperatively for driving engagement with same, said member and said device being disengageable to permit independent reciprocation of said device relative to said member when the latter is in its normal position; a resilient connection tending to impel said member to its said normal position thereby to actuate said device; and releasable latch detent means normally arranged to catch and hold said member displaced from its said normal position and tensioned by said resilient connection.

3. Actuating means for a rotary device adapted for reciprocative movement, embodying, in combination with said device; releasable means normally arranged to check full movement of said device in one direction; normally inactive means, operably independent of said device, and adapted, upon movement independent thereof in said direction, to be operatively connected to said device; actuating instrumentalities for said normally inactive means arranged to be energized by movement thereof in said direction and thereafter operatively to move said last mentioned means in the reverse direction; means governed by said normally inactive means and arranged upon continued movement of said last mentioned means in said first direction, to release and positively to move said device in said first direction; and a releasable detent normally arranged and positioned to hold said device, near the extreme of its travel in the first said direction, against movement in said reverse direction; together with automatic means operatively controlled by movement of said normally inactive means in said first direction and adapted to cause a releasing movement of said detent.

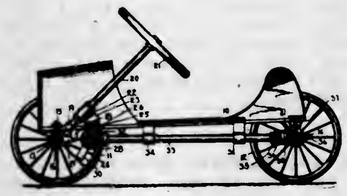
11. Tension-actuated, valve controlling mechanism, embodying, in combination with a valve stem, an actuating member rotatably mounted thereon and spring-impelled in one direction to a stop-limited rotative position; a detent to hold said member under tension of said spring at an opposite extreme rotative position; and means for releasable driving engagement between an extension of said valve stem and said member, whereby said stem is rotatively impelled by said member in a valve-closing direction, said means being actuatable to free said stem from said driving engagement so that said stem is adjustable independently of, and relative to, said member when the latter is in its said stop limited position.

1,350,576. APPARATUS FOR SEPARATING GASES AND VAPORS FROM LIQUIDS. THOMAS K. SMITH, Tulsa, Okla. Filed Jan. 4, 1919. Serial No. 269,565. 6 Claims. (Cl. 183—39.)



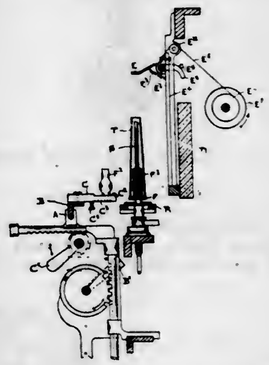
1. In apparatus for separating gases or vapors from liquid oil, a tank constituting a liquid container and a gas expansion chamber, an inlet leading directly into said expansion chamber, at a point intermediate the top and bottom portions of said tank to permit the joint inflow directly into said expansion chamber of associated gases and liquid, and the gases to expand and rise and the liquid to settle therefrom, and means automatically controlled by the elevation of the liquid in said tank for stopping the inflow of said associated gases and liquid thereinto.

1,350,577. OCCUPANT-PROPELLED VEHICLE. WINFIELD D. SMITH, Newark, N. J., assignor of one-half to Henry F. Hayes, Jr., Newark, N. J. Filed Sept. 6, 1919. Serial No. 322,215. 5 Claims. (Cl. 208—36.)



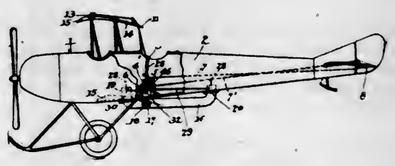
1. A wheeled vehicle having front and rear axles, a body mounted on the axles, a manually operated steering gear, a drive shaft extending longitudinally beneath the body, oscillating pedals, means for transmitting the oscillatory motion of the pedals to the driving shaft, and a gear and ratchet connection between the driving shaft and the rear axle whereby the oscillatory movement of the driving shaft is transformed into a constant rotation of the rear axle.

1,350,578. DOFFING MECHANISM FOR SPINNING-FRAMES AND THE LIKE. HENRY CHARLES SPEIGHT, Bradford, England. Filed Apr. 11, 1919. Serial No. 289,419. 5 Claims. (Cl. 118—18.)



1. The combination with a spinning machine having a row of spindles, of doffing mechanism, comprising a pair of holders for each spindle, all of said holders being located in longitudinal alinement and adapted for reciprocatory movement vertically, longitudinally, and transversely with relation to the row of spindles, whereby the holders are always in vertical position.

1,350,579. CRAFT WITH AUTOMATIC STABILIZER. ARLYN T. VANCE, Los Angeles, Calif., assignor of one-half to F. J. Abbott, Jr., Los Angeles, Calif. Filed May 21, 1918. Serial No. 235,845. 2 Claims. (Cl. 244—29.)

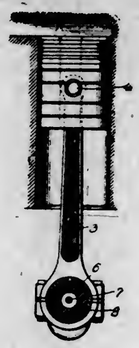


1. In an air-craft having a control lever and having ailerons and an elevator operatively connected with the lever, the combination with said lever of sheaves rotatively mounted on said lever, cables rove around said sheaves, releasable means selectively engaging the sheaves to hold the sheaves against turning relative to the lever, and means operative by tipping of the craft relative to its horizontal flying plane to exert a pull on the cables.

1,350,580. CONNECTING-ROD. ROBERT A. WEINHARDT, Detroit, Mich., assigner to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed May 31, 1918. Serial No. 237,607. 9 Claims. (Cl. 74—17.)

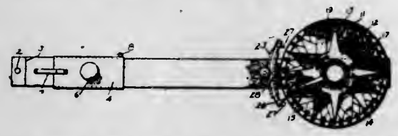
2. A connecting rod proportioned to have the center of

percussion of the mass thereof substantially coincident with the axis of the crank shaft bearing thereof, when the



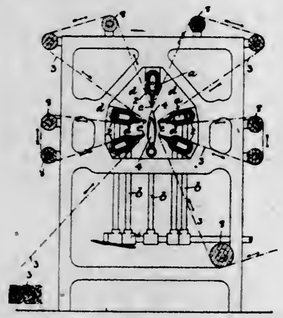
piston pin bearing axis is taken as the center of motion of the rod.

1,350,581. COURSE-FINDER. CORAL NOVELLO WESTWOOD, Victoria, British Columbia, Canada. Filed June 23, 1919. Serial No. 306,140. 9 Claims. (Cl. 33—75.)



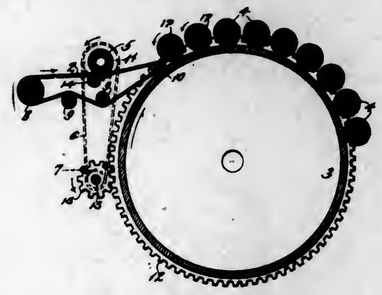
1. A device of the character specified, comprising a blade, a hub near one end of the blade, a mariner's compass card mounted to rotate on the hub, a ring having pointers extending at angles of ninety degrees mounted on the hub above the card, a pointer journaled on the hub above the ring to rotate thereon, means for clamping the ring to the card and having means for clamping the pointer to the ring when desired, a fixed indicator on the blade, and a pair of indicators spaced apart from each other and arranged on opposite sides of the first-named indicator and simultaneously adjustable with respect thereto.

1,350,582. APPARATUS FOR SINGEING FABRICS. HAROLD WHITAKER, Lightcliffe, near Halifax, England, assignor to Bradford Dyers' Association Limited, Bradford, England. Filed Feb. 18, 1920. Serial No. 359,705. 8 Claims. (Cl. 26—14.)



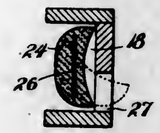
1. A device for singeing fabrics comprising a burner, a series of fixed guides having thin wedge-like edges grouped about the space occupied by a flame projecting from the burner, a series of guiding rollers arranged to coöperate with some of the fixed guides in presenting one side of the fabric to portions of the flame, and another series of guiding rollers arranged to coöperate with the other fixed guides in presenting the opposite side of the fabric to other portions of the same flame so that both sides are singed during a single pass of the fabric over the flame.

1,350,583. METHOD OF IRONING COLLARS. ISAAC F. WILLEY, Philadelphia, Pa. Filed Aug. 5, 1915. Serial No. 43,756. 1 Claim. (Cl. 68—9.)



A method of ironing a collar which consists in continuously feeding a collar with its inside surface uppermost and uncovered and exposed to the ironing devices forwardly laterally in a direction at right angles to its length, initially applying heat and pressure to the upper side and pressure alone to the underside of the forwardly-moving collar throughout the length thereof, then subjecting the collar during a portion of its forward traverse to heat and pressure at its upper side and throughout its length and yielding pressure at its under side and throughout its length, whereby the polish of the collar is increased, and then subjecting the forwardly-moving collar throughout its length to the applications of pressure upon the upper side of the collar and heat and pressure against the underside of the collar.

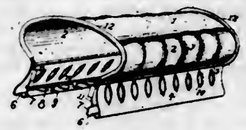
1,350,584. SASH-BALANCE. RICHARD J. WILLIAMS, San Francisco, Calif., assignor of one-half to Peter Grassi, San Francisco, Calif. Filed Apr. 1, 1919. Serial No. 286,634. 2 Claims. (Cl. 16—20.)



1. A window frame having a vertical weight channel at the side and a removal opening at one side, a weight having transverse dimensions to substantially fill the channel, said weight being crescent shaped in transverse section, with the greatest thickness less than the width of the removal opening of the casing, said weight being turnable with its concavity about the inner edge of the opening to remove it.

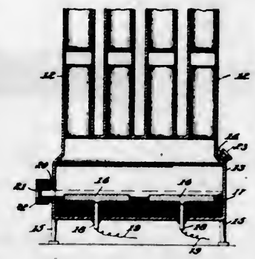
1,350,585. SOAP-HOLDER. JOHN WIRTH, New York, N. Y. Filed Nov. 30, 1918. Serial No. 264,784. 2 Claims. (Cl. 45—28.)

1. A soap holder of the character described comprising a multipart shell having hinged side walls, the lower free edges of the said walls being bent inwardly to provide spacing webs and upwardly to provide parallel soap en-



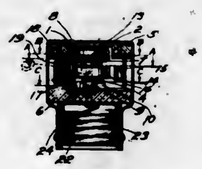
gaging flanges, the spacing webs being curved to afford finger grips and the flanges being formed with inwardly projecting soap-securing teeth.

1,350,586. ELECTRIC HEATER. CHARLES A. XARDELL, Utica, N. Y. Filed Apr. 13, 1920. Serial No. 373,590. 3 Claims. (Cl. 219—40.)



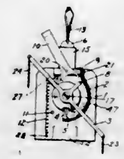
1. An electric heater comprising a radiator having a plurality of sections and having at its base a liquid-tight receptacle with which said radiator sections communicate, said receptacle having a normally closed filling opening, insulating material in said receptacle, electrodes embedded in said insulating material and having exposed upper surface, and suitable electric connections to said electrodes.

1,350,587. THERMODYNAMICALLY-CONTROLLED SOCKET-SWITCH FOR ELECTRIC LIGHTS. MALCOLM H. BAKER, Braintree, Mass.; Marie H. Baker, administratrix of said Malcolm H. Baker, deceased, assignor to Kenneth W. Crosby, trustee, Boston, Mass. Filed Oct. 25, 1915, Serial No. 57,879. Renewed Apr. 14, 1919. Serial No. 290,086. 10 Claims. (Cl. 200—116.)



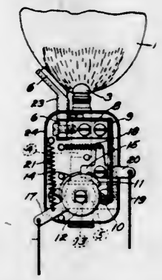
1. In an electric circuit switch, the combination with automatic switch-opening mechanism embodying main circuit controlling contacts tensioned normally to separate and a latch and controlling thermostat therefor positioned when the thermostat is thermally de-energized to prevent separation of said contacts and then thermally energized to permit said separation, of a pivoted, switch-controlling member progressively rotatable into alternate switch-closing and switch-opening positions thereof and adapted in said switch-closing position to close said contacts, a manually operable oscillatory device arranged as a ratchet and upon consecutive actuations thereof to drive said member from one to another of its said positions, and an electric heater for the thermostat, together with auxiliary circuit governing means for controlling said heater and arranged to be operated by said member,—whereby movement of said member to its said switch-opening position renders said heater operative thermally to energize the thermostat.

1,350,588. THERMODYNAMIC EXTINGUISHING DEVICE FOR LAMPS. MALCOLM H. BAKER, Braintree, Mass.; Marie H. Baker administratrix of said Malcolm H. Baker, deceased, assignor to Kenneth W. Crosby, trustee, Boston, Mass. Filed Apr. 26, 1915, Serial No. 23,991. Renewed Nov. 17, 1919. Serial No. 338,525. 28 Claims. (Cl. 67—87.)



1. In a lamp adapted to generate heat as an attribute of light, in combination; means to decrease the useful light emitted by the lamp; thermo-dynamic means arranged to govern the said decreasing means; and means for operatively altering the heat-receiving disposition of the said thermo-dynamic means relative to the source of substantially constant heat of the lamp, without directly varying the latter.

1,350,589. TIME-RETARDED EXTINGUISHING DEVICE FOR GAS-BURNERS. MALCOLM H. BAKER, Braintree, Mass.; Marie H. Baker, administratrix of said Malcolm H. Baker, deceased, assignor to Kenneth W. Crosby, trustee, Boston, Mass. Filed Sept. 10, 1915, Serial No. 50,075. Renewed Nov. 17, 1919. Serial No. 338,526. 12 Claims. (Cl. 67—87.)

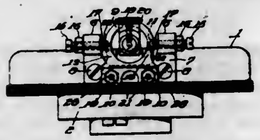


1. In a gas burner structure including a gas supply control valve, in combination; means to open the valve; means to tension the valve for automatic closure; a latch adapted to hold the valve open until manually tripped to release the same; and thermodynamic means arranged to arrest the valve at a partially closed position for a limited interval of time after release by said latch.

1,350,590. SOUND-BOX FOR SOUND RECORDING AND REPRODUCING MACHINES. ISAAC F. BURTON, Philadelphia, Pa., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Apr. 28, 1916. Serial No. 94,118. Renewed Jan. 17, 1920. Serial No. 352,230. 7 Claims. (Cl. 274—35.)

1. In a sound box for sound reproducing machines, the combination of a sound box casing, a diaphragm mounted therein, a stylus bar, a resilient ring forming a mounting for and surrounding said stylus bar, said ring being provided with a thin resilient extension projecting there-

from and integral therewith, means to pivotally mount said ring on said casing and to subject said ring to transverse compression, and a means engaging said ex-

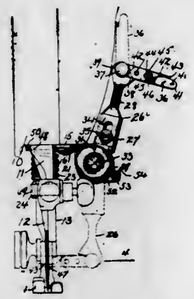


tension at spaced points respectively to flex said extension in opposite directions.

1,350,591. FERTILIZER AND PROCESS FOR MAKING SAME. JOHN N. CAROTHERS, Washington, D. C., assignor to Newton D. Baker, Secretary of War, trustee. Filed Jan. 14, 1920. Serial No. 351,440½. 6 Claims. (Cl. 71—9.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

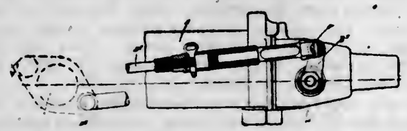
1. The process of making a fertilizer which consists in subjecting calcium phosphate to the action of a concentrated solution of nitric acid having a nitric acid content in excess of 40%, by weight, to form mono-calcium phosphate and calcium nitrate and then adding sufficient calcium cyanamid containing free lime to substantially convert said mono-calcium phosphate to di-calcium phosphate.

1,350,592. NEEDLE-THREADER FOR SEWING-MACHINES. ADOLPH CORDUAN, Roselle Park, N. J. Filed Apr. 30, 1919. Serial No. 293,618. 5 Claims. (Cl. 112—225.)



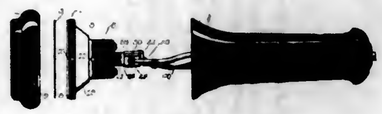
1. A needle threader for sewing machines comprising a threading hook secured on the end of an arm swinging in a vertical plane, a bracket to which the arm is secured, and means for supporting the bracket so that it can swing in a horizontal plane.

1,350,593. RECOIL APPARATUS OF ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, England. Filed July 9, 1919. Serial No. 309,787. 6 Claims. (Cl. 89—43.)



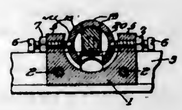
1. In ordnance recoil apparatus of the kind in which the braking is effected by the forcing of liquid through a port, the combination with the gun cradle, of a member serving to vary the area of said port in accordance with the angle of elevation of the gun, mechanism for automatically displacing said member as the gun is elevated, a portion of this mechanism being arranged externally and a portion internally with respect to the gun cradle, means whereby an element of the externally arranged portion of said mechanism can be readily removed for replacement or repair and means whereby when said element is removed said member can be locked in a predetermined position without necessitating the removal of any of the parts of the internally arranged portion of said mechanism.

1,350,594. TELEPHONE-RECEIVER. WILLIAM W. DEAN, Rochester, N. Y., assignor to Stromberg-Carlson Telephone Manufacturing Company, a Corporation of New York. Filed May 10, 1916. Serial No. 96,469. 25 Claims. (Cl. 179—119.)



7. In a telephone receiver, an electromagnet core composed of silicon steel.

1,350,595. SOUND-BOX FOR SOUND-REPRODUCING AND SOUND-RECORDING MACHINES. ALBERT C. DIEHL, Pensauken, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Sept. 14, 1915, Serial No. 50,551. Renewed Jan. 17, 1920. Serial No. 352,232. 18 Claims. (Cl. 274—35.)



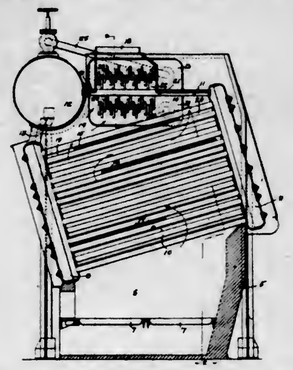
1. In a sound box, the combination of a stylus bar and a transverse resilient loop rigidly secured to said stylus bar, and having portions varying from each other in resilient flexibility.

1,350,596. SOUND-BOX FOR TALKING-MACHINES. ALBERT C. DIEHL, Pensauken, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed May 31, 1916, Serial No. 100,880. Renewed Jan. 17, 1920. Serial No. 352,233. 11 Claims. (Cl. 274—35.)



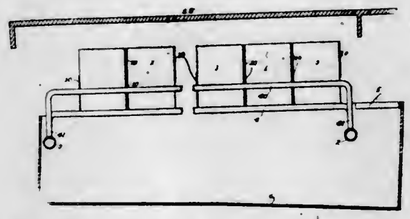
1. A sound box comprising in combination a casing, a diaphragm therein and a stylus bar attached thereto, means for operatively mounting the stylus bar including a continuous member surrounding the stylus bar and having a plurality of independent spring elements disposed in opposite relation to each other, and means secured to said casing to vary the tension of said spring elements, said means comprising adjustable members each having a wedge-like portion adjacent one of said spring elements, said means coacting with said spring elements to tension said stylus bar in opposite directions.

1,350,597. SUPERHEATED-STEAM BOILER. EDWARDS RUSSELL FISH, Phoenixville, Pa. Filed Aug. 20, 1918. Serial No. 250,661. 8 Claims. (Cl. 122—478.)



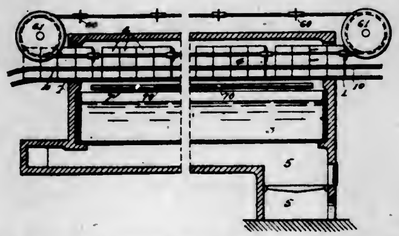
3. A superheated steam boiler including a bank of water tubes; other tubes extending at an angle to said first mentioned tubes whereby a space is provided; a flue outlet being provided above said second mentioned tubes; and a superheater having groups of superheater tubes spaced apart and spanning said second mentioned tubes whereby certain of said groups of tubes are positioned within said first space and others of said groups are positioned between said second mentioned tubes and said flue outlet, substantially as described.

1,350,598. DEVICE FOR REMOVING SEMISOLID OLEAGINOUS MATERIALS FROM CONTAINERS. WALTER B. FOGH, Seattle, Wash. Filed Aug. 12, 1918. Serial No. 249,488. 3 Claims. (Cl. 257—248.)



1. A heating device for cans containing semi-solid oleaginous compounds, comprising a series of heating pipes forming the bottom of a chute and other heating pipes at a higher level forming guard rails at the sides of the chutes.

1,350,599. PROCESS OF REMOVING SOLID OILS FROM CANS. WALTER B. FOGH, Seattle, Wash. Filed Nov. 6, 1918. Serial No. 261,434. 1 Claim. (Cl. 99—11.)

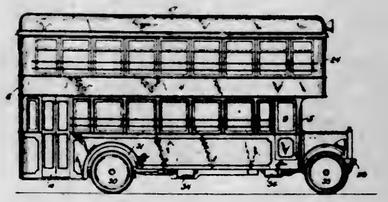


The process of removing solid and semi-solid oils from cans which consists in first opening the cans and placing them in position to drain by gravity, and then discharging melted portions of the same oil into the open ends of the cans.

1,350,600. PRODUCTION OF ANILIN BLACK UPON VEGETABLE TEXTILE FIBERS. EMILE AUGUSTE FOURNEAUX, Manchester, England. Filed Apr. 18, 1918. Serial No. 229,367. 6 Claims. (Cl. 8—5.)

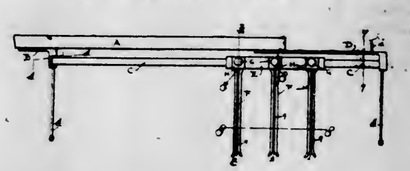
1. A process of producing black upon vegetable textile fibers which consists in impregnating the fiber with a solution comprising anilin, a strong mineral acid, formic acid, a thickener, boracic acid, chlorates of the alkali metals, an organic catalytic agent, an inorganic catalyst, then developing by drying with hot air, and finally by chroming.

1,350,601. BUS CONSTRUCTION. RODOLPHUS FULLER, Detroit, Mich. Filed Nov. 23, 1917. Serial No. 203,537. 3 Claims. (Cl. 296—24.)



1. A coach body having completely inclosed lower and upper decks with the side walls of said body provided with windows for both decks and one side wall provided with doors at the lower deck, one of said doors permitting entrance to an inclosed motorman's compartment in the front end of the lower deck and the other door permitting entrance to an inclosed vestibule formed in the rear end of the lower deck and having a floor below the floor of the lower deck, stairs at the rear wall of said body leading from the vestibule of the lower deck to the rear inclosed end of the upper deck and providing clearance for a seat under said stairs in the vestibule of the lower deck, a seat in said clearance and a seat adjacent the well of said stairs on the upper deck.

1,350,602. DEVICE FOR CONSERVING CORD AND TWINE. OSCAR A. GALE, Eaton, Ohio. Filed Sept. 6, 1918. Serial No. 252,919. 3 Claims. (Cl. 211—36.)

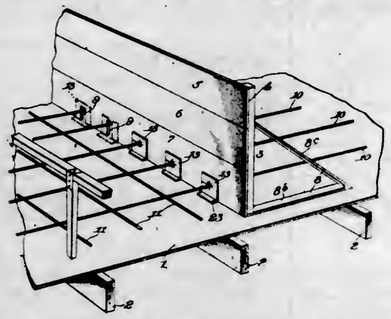


3. A device for conserving wrapping twine, consisting of a rectangular bar of any desired length carrying a movable sleeve of rectangular pipe, into the upper face of which are molded, or inserted a plurality of rectangular lugs to receive and hold in place clutches or clips of spring steel or wire, into which may be placed and held short lengths of twine, substantially as described.

1,350,603. BULKHEAD-STRUCTURE. JACOB GERRITSON and WILLIAM L. RIECK, Kankakee, Ill. Filed Dec. 6, 1919. Serial No. 343,059. 16 Claims. (Cl. 25—118.)

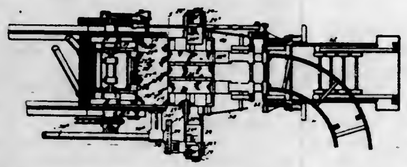
6. As an article of manufacture, a concrete stop for bulkhead construction, relatively thin in cross-section, flexible, and comprising a member including a body portion and a bendable portion adjacent one edge thereof,

the body-portion being provided with a central rod-encompassing aperture, and a series of slits radiating from



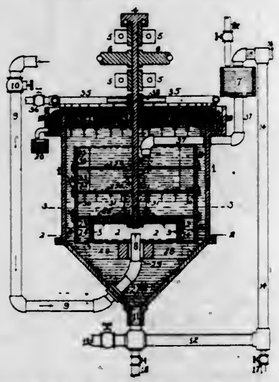
the aperture, one of the slits extending to the edge of the member.

1,350,604. BUMPING MECHANISM. HENRY W. B. GRAHAM, New London, Ohio, assignor to The Arnold-Creager Company, New London, Ohio, a Corporation of Ohio. Original application filed Mar. 1, 1916, Serial No. 81,425. Divided and this application filed Apr. 15, 1918. Serial No. 228,640½. 17 Claims. (Cl. 25—2.)



1. The combination of a support, means for filing brick molds with material, devices arranged at opposite sides of said support and movable transversely thereof for bumping the filled molds on said support during the intervals between movements thereof, each of said devices including a pivoted mold engaging member, means for feeding the molds intermittently to a position for filling by said filling means and then to a position for bumping by said bumping devices, and means for reciprocating said devices.

1,350,605. FLOTATION APPARATUS. WILLIAM E. GREENAWALT, Denver, Colo. Filed Apr. 17, 1916, Serial No. 91,675. Renewed May 3, 1919. Serial No. 294,564. 14 Claims. (Cl. 261—93.)



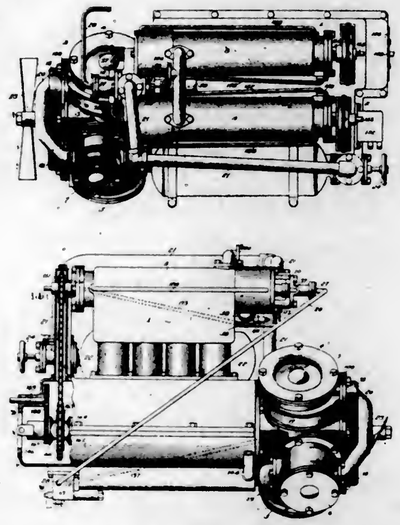
4. In apparatus for separating minerals from their gangue by flotation, a tank adapted to contain a liquid and the material to be treated, means for introducing a gas into the tank, means for impregnating the liquid with the gas, baffles arranged about the impregnator, and a casing to which the baffles are attached arranged in horizontal sections.

1,350,606. SAFETY DEVICE FOR VALUABLES. MARY E. GRUETZMACHER, Milwaukee, Wis. Filed Apr. 29, 1920. Serial No. 377,484. 4 Claims. (Cl. 24—87.)



1. A fastening device comprising a pair of safety-pins integrally connected adjacent their points by means of a manipulating handle and detachably connected adjacent their bows by means of a slidable member.

1,350,607. INTERNAL-COMBUSTION ENGINE. JUDSON LELAND HAND, Sanger, Calif. Filed Dec. 2, 1916. Serial No. 134,725. 4 Claims. (Cl. 123—52.)

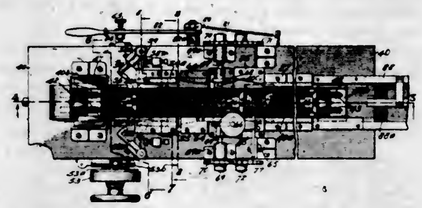


1. A thermo-dynamic power unit embodying two mechanically autonomous internal combustion motors, one of which furnishes power for external use, a compressor driven by the other motor and delivering air under pressure to both motors, a fuel pump driven by one motor and supplying fuel to the motors at substantially the same pressure as that at which the air is normally supplied thereto, a throttle valve for simultaneously controlling both the supply of air and fuel to the respective motors, said valve embodying means whereby the supply of air and fuel to one motor may be regulated independently of the other.

1,350,608. WRAPPER-APPLYING MECHANISM. JAMES B. HARRISS, Newark, N. J., assignor to P. Lorillard Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 17, 1917. Serial No. 186,670. 32 Claims. (Cl. 93—2.)

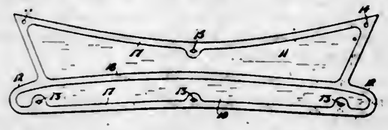
15. In a mechanism for closing the ends of a charge having the form of a partially wrapped package, wherein the wrapper is free from flap-forming slits and the ends to be closed project outwardly in the several planes of

the applied portions of the wrapper, a traveling conveyer adapted to advance the charge continuously in approximately a single plane, and means for producing opposing end flaps at the ends of the package during advance of



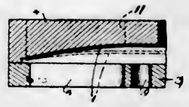
the charge, said means including mechanisms for infolding the advance and rear walls of the charge, and means for compensating for buckling of the unfolded projecting ends during such infolding action.

1,350,609. COLLAR CONSTRUCTION. TAKEBE HASE, San Francisco, Calif. Filed Aug. 30, 1918. Serial No. 252,006. 1 Claim. (Cl. 2—67.)



An article of manufacture comprising a foldable single pieced rubber collar including an outer member, and an inner band member, with a concavely curved line of junction between the two members, said band member having its ends extending beyond their junction with the outer member, and reinforcements in said bands, with button holes formed in said reinforcements, coincident with the button holes of the band fabric.

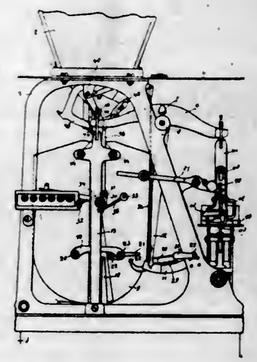
1,350,610. INLET OR CHECK VALVE. FRANK L. HENIG, Chicago, Ill., assignor, by mesne assignments, to Henig Engine Co., a Corporation of Illinois. Filed Dec. 4, 1918. Serial No. 265,309. 10 Claims. (Cl. 251—119.)



4. In a valve, a casing having a seat formed with a port and a valve having a hub and integral arms radiating therefrom, said casing being formed to permit bodily shifting of the valve up from its seat, said hub having an imperforate part alining with the port of the seat whereby to effect raising of the valve up from its seat by the fluid pressure impacting against the hub.

1,350,611. AUTOMATIC WEIGHING-MACHINE. CARL KADER, Hennef, Germany, assignor, by mesne assignments, to Obrima Automatische Waagenbau-Actiengesellschaft, Munich, Germany. Filed Sept. 26, 1919. Serial No. 326,676. 8 Claims. (Cl. 249—48.)

1. An improved automatic weighing machine for continuous use, comprising two oscillating closing traps of unequal size, the larger one of said traps offering the main entrance gap into the receptacle and the smaller trap providing a by-pass gap retained in the closed position until the larger trap closes, means for coupling the said two traps to each other in such a manner, that the larger trap will open the smaller trap by its over-weight as it closes, means for automatically uncoupling the two



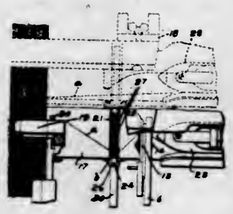
traps at the end of each weighing operation by the sinking motion of the receptacle, and means for automatically closing the smaller trap through its proper weight at the end of each operation.

1,350,612. NECKTIE-CLASP. CHARLES A. KREPLIN, Enid, Oklahoma. Filed Nov. 7, 1919. Serial No. 336,354. 3 Claims. (Cl. 24—253.)



1. A tie clasp comprising a plate having one end thereof bent at substantially right angles thereto and provided with a V-shaped notch forming spaced gripping spurs, a finger-piece pivotally connected with said plate, a spring coacting with the plate and finger-piece, and a pin carried by the finger-piece and having its piercing end curved laterally in the direction of the plate and adapted to seat between the gripping spurs.

1,350,613. FILLING-THREAD CONTROLLER. FRED LACEY, Lowell, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 25, 1919. Serial No. 319,608. 8 Claims. (Cl. 139—85.)



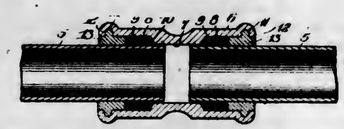
6. In a filling replenishing loom, the combination of the lay and shuttle-boxes, means for parting the old or spent filling between the cloth selvage and shuttle when in the adjacent shuttle box, a filling thread positioning device mounted on the lay transversely thereof and having a yielding surface to engage the filling between the cloth selvage and shuttle when replenishment of filling is to be effected.

1,350,614. THEATRICAL APPLIANCE. LANGDON McCORMICK, New York, N. Y. Filed Oct. 5, 1918. Serial No. 257,031. 13 Claims. (Cl. 46—70.)



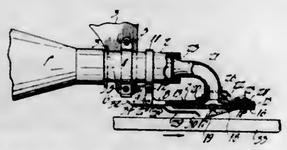
1. In a theatrical apparatus for producing illusionary effects, the combination of a movable collapsible object, a structure representing an area in or on which the movable object travels, means for simultaneously moving the object and the area structure surrounding same in the same direction, and means for expanding or collapsing the object while being moved to produce the illusionary effect of the object moving on or in the area surrounding same.

1,350,615. PIPE-SLEEVE. BENJAMIN MANCUSO, Batavia, N. Y. Filed Sept. 15, 1919. Serial No. 323,760. 2 Claims. (Cl. 285—114.)



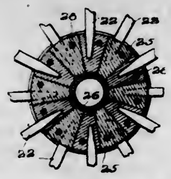
1. A sleeve for connecting pipe sections having interiorly thereof a portion for closely and slidably engaging adjacent pipe ends, an enlarged portion forming an annular chamber at either end of said pipe engaging portion for the reception of packing and cementing material, an annular shoulder at either end of the sleeve for retaining said cementing material in position, and an exterior receptacle communicating with one of said chambers for the introduction of cementing material thereto when the sleeve is inclined from a horizontal position with the latter chamber at its lower end.

1,350,616. PHONOGRAPH. WALTER H. MILLER, Orange, N. J. Filed Oct. 7, 1918. Serial No. 257,157. 4 Claims. (Cl. 274—17.)



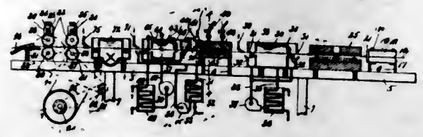
1. In a device of the class described, a phonograph recorder, and a device having a "breaker" disposed in proximity to and in advance of the recording stylus.

1,350,617. VEHICLE-WHEEL. ARTHUR MILLS, Sacramento, Calif. Filed Jan. 18, 1919. Serial No. 271,893. 5 Claims. (Cl. 21—69.)



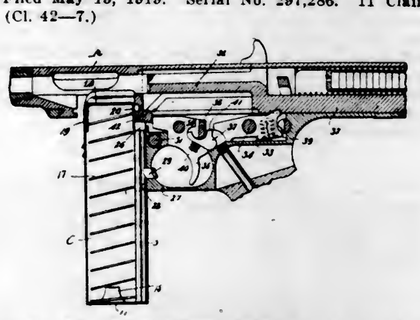
1. A vehicle wheel including a hub formed of sections shiftable inwardly upon each other, spokes carried by the hub sections respectively, a felly supported by the spokes, a boxing extending through the hub, means adjustable upon the boxing for shifting the hub sections inwardly upon each other to expand the felly, and means carried by said first mentioned means and coacting with the hub sections for centering the boxing with respect to the hub.

1,350,618. APPARATUS FOR MAKING TEMPERED BLADES. CHARLES NAPIER, Springfield, Mass., assignor to Napier Saw Works Inc., Springfield, Mass., a Corporation of Massachusetts. Filed Jan. 4, 1919. Serial No. 269,598. 21 Claims. (Cl. 266—3.)



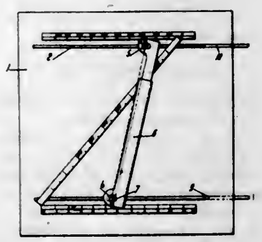
1. Apparatus for treating a metal article comprising means to move such article in a certain direction, means in the path of said article for raising its temperature above the hardening reaction point, means in the path of said article for quenching it, and means in the path of said article for drawing the temper of the body region of said article and for gradually drawing the temper of an edge region thereof, whereby to spring-temper the body and graduate the temper of the edge region from a spring temper within to hardness at the edge.

1,350,619. CARTRIDGE-MAGAZINE. OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed May 15, 1919. Serial No. 297,286. 11 Claims. (Cl. 42—7.)



11. A cartridge magazine adapted to be detachably fitted to a firearm, comprising a sheet metal case having a wall thereof bent in the form of a dovetail guide adapted to interfit with a similarly shaped guide in the firearm.

1,350,620. MEAN-SPEED INDICATOR. HENRI PETIT, Ermont, France. Filed Sept. 11, 1916. Serial No. 119,489. 2 Claims. (Cl. 235—61.)

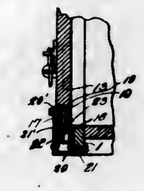


1. In an apparatus for indicating the mean speed of a rotating part, a pair of parallel scales, a scale extending diagonally between the parallel scales, and a movable bar intersecting the diagonal scale and movable along the parallel scales, the point of intersection of the movable bar with the diagonal scale indicating the mean speed of the rotating part, the points of contact of the movable bar with the parallel scales moving, one in proportion to the time, and the other to the distance of rotation of the rotating part.

1,350,621. PROCESS FOR TREATING FIBERS. JOHN H. PICKUP, Philadelphia, Pa., assignor of one-half to George A. Wilson, New York, N. Y. Filed Mar. 19, 1919. Serial No. 283,464. 4 Claims. (Cl. 92—5.)

1. The method of preparing vegetable fibers for spinning which consists in allowing the fiber to stand and ferment in a hot bath for an extended period, then entering the fiber into a solution of slack lime, then boiling the fiber under pressure, and subsequently subjecting the fiber alternately to acid and alkaline baths.

1,350,622. ROLLER-DOOR EQUIPMENT. MENZO A. RUTENBER, Collinsville, Okla. Filed Apr. 25, 1918. Serial No. 230,834. 1 Claim. (Cl. 20—22.)



A sliding door construction of the class described comprising a support, a door, an upper hanger frame carried by said support, rollers carried by said door and adapted to work upon said upper hanger, said door provided with pockets formed in the lower edge thereof, casings fitted within said pockets, a roller mounted within each casing and projecting below the outer edge of said casings, a substantially Z-shaped shield plate extending across the bottom edge of the door and having apertures formed therein through which said last mentioned rollers project, said substantially Z-shaped plate also extending upwardly against the outer face of the door and projecting downwardly along its opposite edge and adapted to normally lie snugly against the outer face of said support, a plurality of brackets carried by said support and provided with outwardly extending end portions, a substantially inverted L-shaped plate secured to the outer faces of said brackets and having an inwardly extending flange constituting a track for receiving said last mentioned rollers, and said downwardly extending flange of said Z-shaped plate projecting down below the upper face of said substantially inverted L-shaped plate for a considerable distance.

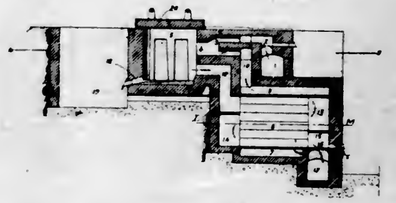
1,350,623. SHADE AND CURTAIN FIXTURE. FREDERICK W. SCHRNMEYER, West Albany, N. Y. Filed Aug. 6, 1919. Serial No. 315,715. 2 Claims. (Cl. 156—24.)



1. A combined shade roller and curtain pole support comprising a bracket for attachment to a window casing, said bracket including an inwardly projecting bar having a longitudinal slot provided with spaced notches in the opposed edges thereof, and a shade roller bracket provided at its inner end with a relatively fixed stud consisting of a head and a shank, the shank being disposed at right angles to the plane of the bar and adjustable along the slot therein to seat in any one of said notches with the head bridging the notch in which the shank is seated.

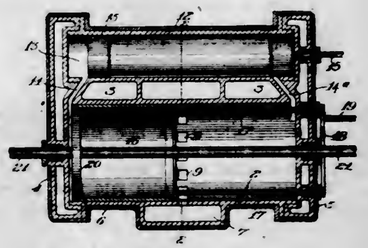
2. In a device of the class described, duplicate brackets each comprising a foot to be secured to the edge of the window casing, and a bar projecting at right angles to the plane of a foot and slotted throughout its length, the upper and lower edges of the slot having notches out of register throughout its length but with the two innermost notches in register; of a pair of fixtures each comprising a body, a base plate secured across the inner edge of the same and hooked to the rear at its upper end, and a relatively fixed stud projecting from the rear face of the base plate and having a T-head disposed transversely to the length of said plate, the head being of a size to pass through said alined notches and the shank of the stud disposed to engage one of the notches in the lower edge of the slot when the hook engages over the upper edge of the bar, the head bridging the notch in which the shank is seated.

1,350,624. REGENERATIVE FURNACE. CHARLES STEIN, Paris, France, assignor to Societe Ch. M. Stein & Cie., Paris, France, a Corporation of France. Filed Apr. 30, 1919. Serial No. 293,820. 3 Claims. (Cl. 263—15.)



1. A vertical furnace of the class described, comprising a hearth, means for admitting and burning therein a combustible mixture of air and gas, means for exhausting the products of combustion therefrom, a regenerator through which the incoming air passes and through which the outgoing products of combustion pass for heating said air, and a smoke collector for the final exhausting of the products of combustion provided with means for regulating said exhaust.

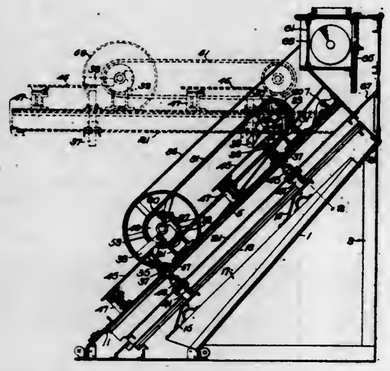
1,350,625. STEAM-ENGINE. HENRY A. STRINGFELLOW and ELLIS W. TEMPLIN, Rochester, N. Y. Filed Oct. 11, 1915. Serial No. 55,172. 3 Claims. (Cl. 121—125.)



1. In a steam engine, the combination with a cylinder and a piston operating therein, said cylinder being provided with inlet ports at each end and an intermediate exhaust port, of a sleeve arranged to reciprocate in the

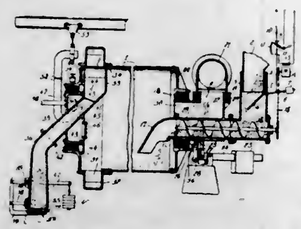
cylinder between the walls of the latter and the piston and to open and close the exhaust port upon each reciprocation of the piston and additional means for opening and closing the intake ports.

1,350,626. SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed July 24, 1917. Serial No. 182,407. 11 Claims. (Cl. 83—56.)



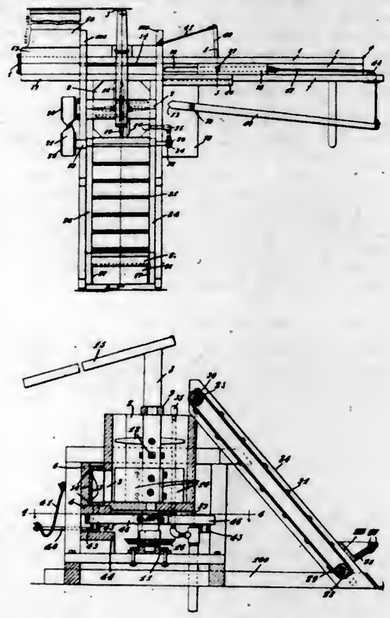
1. A separator comprising in combination, a casing, a cover therefor, a screen mounted in said casing, means to percussively vibrate said screen including a member projecting down through said cover toward said screen, means automatically to lift said member from said screen on opening of said cover, and a socket on said screen receiving said member and having a lateral opening allowing side movement of said member as it is lifted.

1,350,627. ROTARY DRY-DISTILLING APPARATUS. FLOYD G. TEN BROECK, Brooklyn, N. Y., and MILTON T. WESTON, Keansburg, N. J., assignors to West Virginia Pulp & Paper Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 6, 1918. Serial No. 248,619. 19 Claims. (Cl. 203—6.)



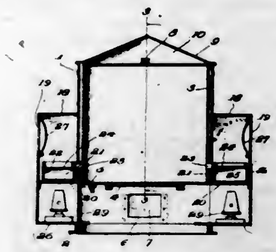
2. In a rotary dry distilling apparatus, a retort shell, a feed head secured thereto, a feed member revolubly mounted in said feed head and formed with a vapor passage and a feed passage, a feed screw in said feed passage, a collar communicating with said feed passage, a feed hopper and a connected depending neck located within said collar, a feed gate in said collar adjacent said neck, a feed lever connected to said feed gate, a feed motor and driving connections therefor to operate said feed screw, a switch for said feed motor and a feed member connected to said feed lever to retard and stop the operation of said feed screw as said feed gate rises when less material is discharged from said hopper.

1,350,628. BRICKMAKING-MACHINE. FREMAN HENRY WALKER, Boswell, Okla. Filed Sept. 19, 1919. Serial No. 324,750. 5 Claims. (Cl. 25—48.)



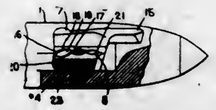
3. In a device of the class described, a hopper; a mold chute coöperating with the hopper; a follower mounted to reciprocate in the chute; a rotary feeder having an arm and including a part operating in the hopper; a bell crank pivoted to the follower and including a lateral arm and a second arm; a yieldable element having a fixed length, one end of said element being anchored, and the other end thereof being connected to the lateral arm of the bell crank thereby to swing the second arm of the bell crank into the path of the arm of the feeder when the follower is retracted, whereby the arm of the feeder will advance the follower; and means operated by the arm for retracting the follower.

1,350,629. HOG-WATERER. MARGARET V. WIDHELM, Fremont, Nebr. Filed Jan. 19, 1920. Serial No. 352,249. 3 Claims. (Cl. 119—73.)



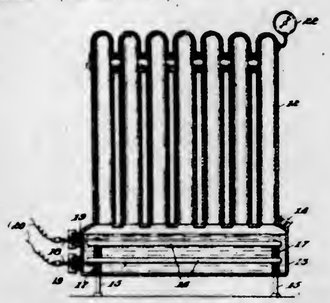
1. A stock-watering apparatus comprising a tank, a housing disposed at one side of the tank and provided with an opening in its front wall, a shelf in the housing below said opening, a drinking pan removably supported on said shelf and in communication with the tank, and a guard extending across the pan below the upper edges of the walls of the same and provided with an opening.

1,350,630. TENSION DEVICE FOR SHUTTLES. ARNOLD WILD, Danielson, Conn., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 21, 1920. Serial No. 360,524. 9 Claims. (Cl. 139—46.)



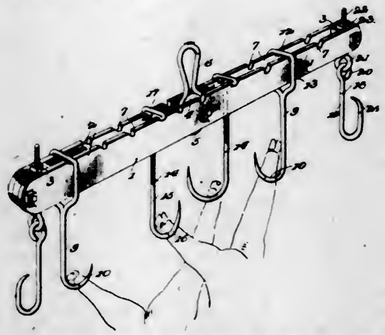
9. A tension device for loom shuttles comprising a flat tapered bar twisted to form helical ribs and having means for anchoring the same at the larger end in the shuttle to position said bar axially of the thread passage leading to the the shuttle eye.

1,350,631. ELECTRIC HEATER. CHARLES A. XARDELL, Utica, N. Y. Filed Jan. 8, 1920. Serial No. 350,066. 4 Claims. (Cl. 219—40.)



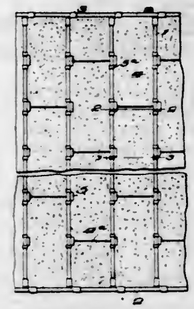
1. An electric heater comprising a radiator having a longitudinally extending liquid-tight receptacle at its base and with which receptacle the chambers of the radiator sections communicate, longitudinally extending electrodes or heating members, arranged one above the other, in said receptacle and insulated from each other, and electric communication between which members may be established by liquid in said receptacle, and insulated electric connections from outside of the heater to said members; whereby, when the electric current is turnnd on the heating operation will proceed until the liquid in said receptacle is caused, by evaporation, to fall below the level of the upper electrode or heating member, when the circuit will be broken, but will be resumed when the liquid is caused, by condensation, to rise to said upper electrode or heating member and thus close the circuit.

1,350,632. GAMBREL. HERMEN E. ALBRECHT, What Cheer, Iowa. Filed July 2, 1919. Serial No. 308,067. 6 Claims. (Cl. 17—30.)



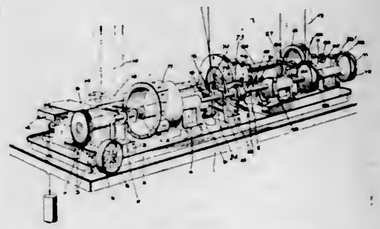
1. A gambrel comprising a bar, an anchored hook at each end of said bar, and hooks having eyes adjustable along the said bar and said end hooks forming a stop means for the eyes whereby the association between the adjustable hooks and the bar is permanently maintained.

1,350,633. WALL CONSTRUCTION. ROBERT I. ALLSWORTH, New York, N. Y. Filed Apr. 9, 1920. Serial No. 372,536½. 8 Claims. (Cl. 72—46.)



6. A wall or partition structure comprising a series of spaced vertical channel irons; plaster boards between said irons, one edge of each board being disposed within the channel of one adjoining iron, and the opposite edge of said board carrying a clip adapted to abut the smooth face of the succeeding iron and engage the flanges thereof.

1,350,634. SWAGING-MACHINE. ARTHUR A. ARNOLD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Jan. 2, 1918. Serial No. 210,032. 24 Claims. (Cl. 78—22.)



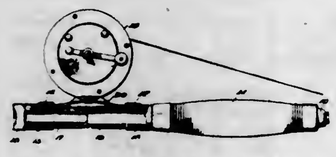
1. A swaging machine including a rotating head, means for feeding a piece of stock into the head, a plurality of of dies carried by the head, means for successively bringing the dies into operative engagement with the stock, and a cutter for severing the piece of stock which has been operated upon from the main stock.

1,350,635. REEL-SEAT. WILBUR L. BEATY, South Butte, Mont. Filed Apr. 16, 1919. Serial No. 290,623. 9 Claims. (Cl. 43—22.)



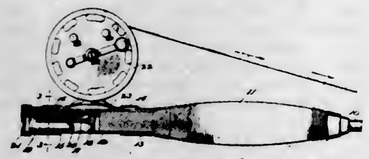
1. A reel seat including a core provided with a removable section, means securing said section in place, a nut carried by the section, a staple bearing over the nut and connecting the nut with the section, reel engaging means fixed with respect to the core, a cap slidably fitting over the core and adapted to coact with said means for connecting a reel with the core, and an adjusting screw freely received through the cap and threaded through said nut for advancing the cap.

1,350,636. REEL-SEAT FOR FISHING-RODS. WILBUR L. BEATY, South Butte, Mont. Filed Nov. 26, 1919. Serial No. 340,785. 2 Claims. (Cl. 43—22.)



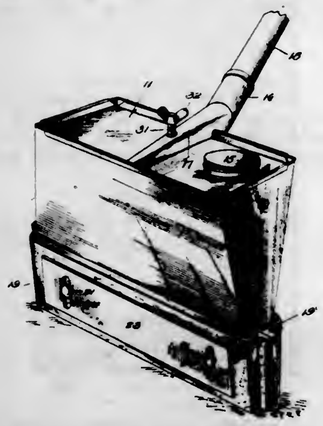
1. A reel seat including a barrel, fixed reel engaging means thereon, a sleeve slidable upon the barrel to coact with said means for connecting a reel with the barrel, the barrel having its wall internally threaded, and a follower threaded to engage the threads of the barrel and adjustable to coact with said sleeve for advancing the sleeve.

1,350,637. REEL-SEAT FOR FISHING-RODS. WILBUR L. BEATY, South Butte, Mont. Filed Nov. 26, 1919. Serial No. 340,786. 8 Claims. (Cl. 43—22.)



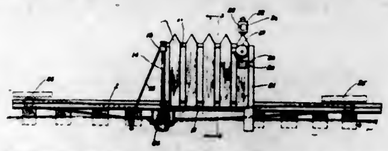
1. A reel seat including a barrel, reel base engaging means carried thereby, a reel base engaging sleeve slidable upon the barrel, a follower received within the barrel and adapted to coact with the sleeve, means mounted within the barrel to coact with the follower whereby the follower may be adjusted for advancing the sleeve, and an elongated handle carried by the follower and adapted to be grasped for manipulating a rod connected to the seat.

1,350,638. FLOOR-OILER. PRESTON BELVIN, Richmond, Va. Filed Sept. 5, 1919. Serial No. 321,824. 6 Claims. (Cl. 15—51.)



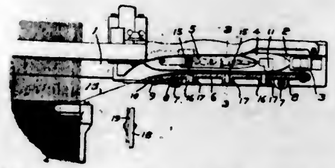
1. A device of the character described including a reservoir, a rubbing shoe associated therewith and having a lineal floor engaging edge, adjustable reinforcing elements on each side thereof movable along the rubbing shoe away from the edge thereof, a distributer in communication with the reservoir, and means for controlling the flow from the distributer.

1,350,639. RAILROAD-GATE. JOHN BEREZNAY, Throop, Pa. Filed Jan. 30, 1920. Serial No. 355,234. 1 Claim. (Cl. 246—313.)



In a device of the character described, a swingable gate, an upright shaft on which said gate is mounted, a bevel gear on said shaft, a horizontal shaft, a bevel gear on said horizontal shaft meshing with the bevel gear on said upright shaft, a sprocket wheel on said horizontal shaft, a pinion in spaced relation to said horizontal shaft, a second horizontal shaft carrying said pinion, a second sprocket wheel on said pinion shaft, a chain operatively connecting said sprocket wheels, a rack carried by a train for engaging said pinion to automatically operate said gate, an electric bell on said gate, a lamp, having a warning light showing when said gate is closed, carried by said gate, a stationary gate post against which said gate closes, and current carrying wires carried by said gate post for ringing said bell when said gate is closed.

1,350,640. FILLING-REPLENISHING LOOM. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 15, 1919. Serial No. 330,742. 7 Claims. (Cl. 139—85.)



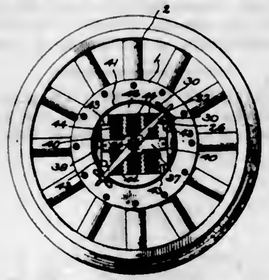
1. In a filling replenishing loom, the combination of the lay and shuttle-box, a shuttle having a side delivery eye and a groove extending from said delivery eye longitudinally along the exterior side wall of the shuttle, and a series of tufts secured to the side of the shuttle-box at intervals and in position to enter the longitudinal groove in the shuttle when the latter is boxed acting to hold the filling thread in the groove, and means for adjustably securing the series of tufts in position.

1,350,641. DETACHABLE HANDLE. FREDERICK E. CARLSON, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Sept. 20, 1917. Serial No. 192,400. 4 Claims. (Cl. 294—33.)



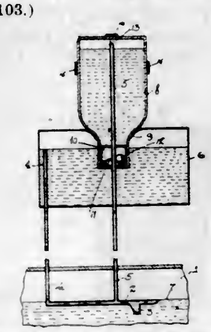
1. A detachable handle comprising a pair of spaced engaging members of inverted U-shape whose planes are normally angularly disposed with reference to one another, said members being movable toward and away from one another to permit of the handle being applied to a container, and spring means tending to move said members to normal position.

1,350,642. SHOCK-ABSORBING WHEEL. ANDREW L. CARROLL, St. Louis, Mo., assignor of one-half to Gregg McKenzie, St. Louis, Mo. Filed July 7, 1919. Serial No. 308,936. 4 Claims. (Cl. 180—71.)



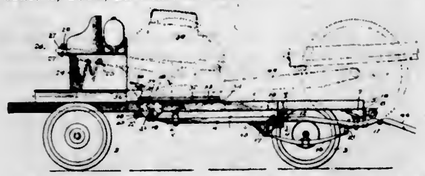
2. The combination of a stationary rest, an inner hub member disposed concentrically around said rest, shock-absorbing devices between the rest and the said hub member, an outer hub member rotatably fitted about the inner hub member, a guide on the outer face of the outer hub member, and a driving arm secured to the axle and engaging in said guide and playing through the same as the hub members move vertically relative to the axle.

1,350,643. OILING SYSTEM. ANTHONY COSTA, East Cleveland, Ohio, assignor to The Gravity Carburetor Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 25, 1917. Serial No. 170,867. 3 Claims. (Cl. 184—103.)



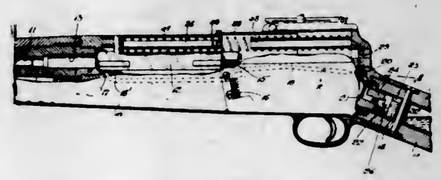
1. The combination with an oil reservoir, of a conduit leading thereto at the level to be maintained therein, a holder mounted adjacent to the upper open end of said conduit, and a normally sealed container adapted, when set in said holder and positioned over the open end of said conduit, to automatically be placed in connection therewith, said container being provided with means adapted to seal the same upon normal removal from said conduit.

1,350,644. ARTILLERY TRUCK. WALTER T. DOVE, U. S. Army. Filed June 10, 1919. Serial No. 303,221. 11 Claims. (Cl. 89—40.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A truck having a frame, wheel members parallel with the frame, said frame being supported at its forward end independently of the wheel members and at its rear end by said wheel members.

1,350,645. APPARATUS FOR LUBRICATING AMMUNITION. THEODORE H. EICKHOFF, Cleveland, Ohio, assignor, by mesne assignments, to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 27, 1917. Serial No. 204,269. 27 Claims. (Cl. 42—1.)



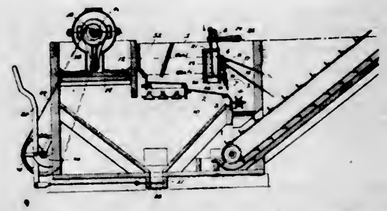
26. A gun comprising a fluid duct, means for producing a flow of fluid through said duct, a lubricant chamber, and a lubricant duct having a nozzle projecting into said fluid duct so that said flow of fluid will aspirate lubricant from said lubricant duct, said fluid duct being directed to a part of the gun thereby to lubricate the part.

1,350,646. MAGAZINE. THEODORE H. EICKHOFF, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed May 4, 1920. Serial No. 378,798. 17 Claims. (Cl. 42—50.)



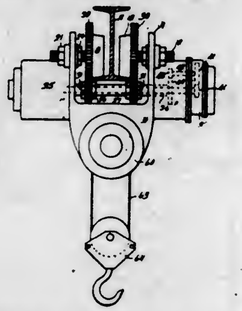
1. A magazine for cartridges comprising lips adapted to gradually release a cartridge, the lips extending laterally beside the cartridge beyond the point of release and adapted to contact therewith to prevent lateral deviation.

1,350,647. DISCHARGE CONTROL FOR JIGS AND LIKE MACHINES. GUY H. ELMORE, Swarthmore, and HARRY L. MCLEAN, Scranton, Pa. Filed July 22, 1918, Serial No. 246,192. Renewed Jan. 23, 1920. Serial No. 353,588. 5 Claims. (Cl. 83—58.)



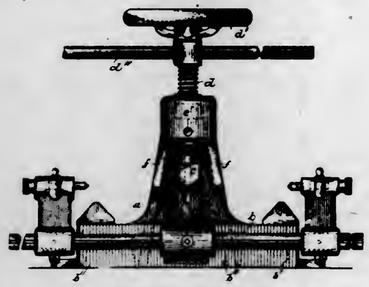
1. In combination with a machine for separating bodies of differing specific gravity, a perforate bed or screen to support the materials to be treated; an outlet at the discharge end of said bed or screen for the escape of the heavier materials; an overflow for the lighter material; a discharge valve controlling the escape of the heavier material; a stationary imperforate casing above the bed or screen; a float wholly within said casing; a rockshaft provided with a radial arm from which said float is suspended; and connections between the rockshaft and the discharge valve, whereby said valve is caused to discharge the heavier materials when the float is elevated to a predetermined level by the building up of the heavier material beneath it.

1,350,648. TROLLEY. BENJAMIN F. FITCH, Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del., a Corporation of Delaware. Filed May 16, 1919. Serial No. 297,460. 4 Claims. (Cl. 105—113.)



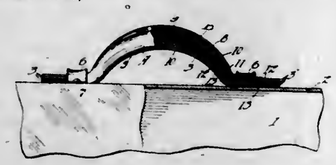
2. The combination of a trolley frame having upwardly extending portions with openings through them, studs occupying said openings and extending on each side thereof, said studs having intermediate bearing portions in the openings and being threaded on each side of the openings, nuts screwing on the studs and jamming against the opposite sides of the frame portion, and wheels journaled on the inner ends of the studs.

1,350,649. PRESS-BODY. PHILIP A. GEIER, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 13, 1917. Serial No. 148,423. 6 Claims. (Cl. 153—53.)



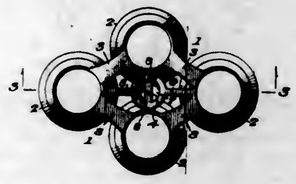
1. A press body integrally formed of a casting hollow in its upright portion and interiorly reinforced transversely approximately in the zones of the upper and lower angles of the press jaw, and exteriorly reinforced integrally at the sides only of the upper angle thereof, whereby adequate working space is afforded therebetween, substantially as set forth.

1,350,650. HANDLE. WILLIAM HANDLER, Newark, N. J. Filed Mar. 15, 1917. Serial No. 154,921. 4 Claims. (Cl. 190—57.)



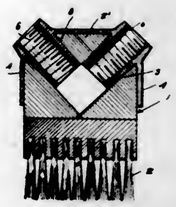
1. A handle comprising a bottom member and a filler member applied to the bottom member intermediate the ends thereof, said filler member having a stiff reinforcing member extending longitudinally thereof and inclosed therewithin, said handle having reduced portions adjacent its ends whereby it is adapted for connection with a bag or the like by keepers applied to such bag and taking loosely over such reduced portions, and reinforcing means anchored only and directly to said bottom member and extending longitudinally of the handle at said portions.

1,350,651. CULINARY UTENSIL. CHARLES S. HIRST, Philadelphia, Pa.; Charles I. Cronin and Logan Trust Company executors of said Charles S. Hirst, deceased. Filed Mar. 6, 1919. Serial No. 281,047. 3 Claims. (Cl. 53—7.)



1. In a culinary utensil of the character stated, a series of connected inverted conical cups which are open throughout and interiorly of conical form, and a member centrally joining the upper portions of said cups, said member having therein a depression, and a handle joined to the wall of said member above said depression.

1,350,652. BRUSH. WILLIAM E. HUGHES, Greenville, S. C., assignor to Robert O. Brooks, Atlanta, Ga. Filed Sept. 12, 1919. Serial No. 323,287. 1 Claim. (Cl. 287—11.)



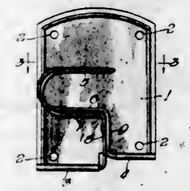
In combination, a brush head having an enlargement formed intermediate its ends and inwardly directed converging openings formed therein and in communication with each other, transversely curved plates secured to the enlargement and having their opposing ends in abutting engagement and their other ends terminating on the front and rear walls of the head, and tubular internally screw threaded members formed integrally with the plates and projecting slightly beyond the outer faces of said plates to receive a handle, said members being disposed on converging planes and projecting beyond the inner faces of said plates and extending into and terminating adjacent the inner ends of the openings to prevent wear on the openings by the handle.

1,350,653. SHEARS. DOLPH JOHNSON, Burke, Idaho, assignor of one-half to John Carlson, Mullan, Idaho. Filed May 6, 1919. Serial No. 295,104. 1 Claim. (Cl. 30—13.)



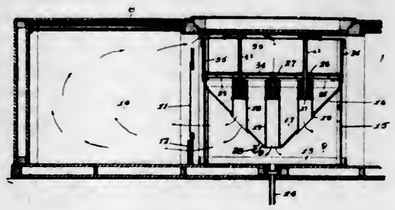
The combination with the handle having a bifurcated end formed with an externally beveled cutting edge and a spaced guard of equal length, of a crossed handle with a cutting jaw pivoted in the bifurcated end, a pivot bolt passed through the two cutting members, an enlarged bearing boss on the bolt loose in the guard and having a flat bearing face for said cutting jaw, a head on the bolt outside the guard and a nut on the opposite end of the bolt to tighten the cutting members against said boss.

1,350,654. BROOM-HANGER. GEORGE B. KEPLINGER, Chicago, Ill. Filed Oct. 13, 1919. Serial No. 330,435. 3 Claims. (Cl. 24—257.)



1. A broom hanger comprising a supporting member adapted to be mounted on a wall, and an object engaging element comprising two arms engaged with said supporting element at separated points to swing on parallel axes, both said arms terminating in a single U-shaped object receiving formation integral with said arms and connecting therewith at the outer end of one of its arms, the latter consisting of two parts adapted to be sprung apart in the plane of said member as said object engaging element is pivotally moved whereby said object receiving formation is contracted during pivotal movement in one direction to engage an object received therein.

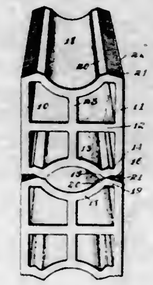
1,350,655. REFRIGERATOR. CHARLES A. KETTERER, East St. Louis, Ill. Filed July 11, 1918. Serial No. 244,395. 3 Claims. (Cl. 62—67.)



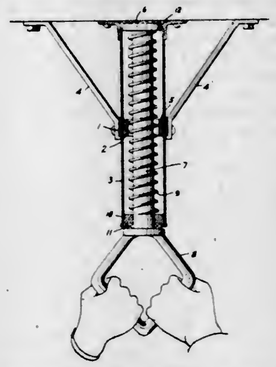
2. A refrigerator comprising a storage compartment a refrigerator receptacle located adjacent thereto, said receptacle having an ice compartment and a brine compartment, the compartments being separated from each other by a screen, air circulation tubes extending through the ice and brine compartments, slide valves for regulating the passage of air through the tubes, and means for removing the congealed moisture from the tubes and ice receptacle.

1,350,656. BUILDING-BLOCK. MATTHEW LEANDER KING, Des Moines, Iowa. Filed Jan. 13, 1919. Serial No. 270,847. 2 Claims. (Cl. 72—41.)

1. A hollow block having vertical side walls and having an upper wall with a concave central portion and with upwardly and outwardly inclined smooth surfaces at each side of said concave portion, said block having a lower wall with a concave central portion and with smooth surfaced portions extending upwardly and outwardly from said concave portion, the upper surface of the block being inclined downwardly and outwardly from the smooth portions thereof.

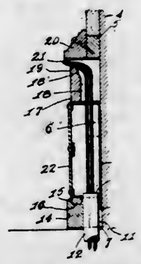


1,350,657. RIGID HAND-GRIP FOR CARS. MARY A. KIRSCHMANN, Philadelphia, Pa. Filed June 11, 1920. Serial No. 388,124. 2 Claims. (Cl. 105—354.)



1. An extensible rigid hand grip for cars comprising in combination opposed interconnected inner and outer rings, a tubular casing between the rings, stays applied to the outer ring for bracing both rings, and a spring retracted hand grip slidably arranged in the casing and provided with a head adapted to abut on the inner ring and be braced by said stays, substantially as described.

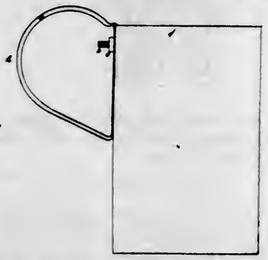
1,350,658. OPEN-SLOT CONDUIT. FRANKLIN P. LAWRENCE, University City, Mo. Filed Dec. 23, 1918. Serial No. 268,094. 4 Claims. (Cl. 247—1.)



3. A conduit for concealing telephone, telegraph and signal conductors comprising a panel, the upper edge of

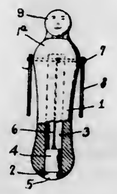
which being provided with a tapered channel or groove formed on its inside face, and a detachable molding spaced apart from the channel and parallel therewith, said molding being wider than the thickness of the panel and projecting beyond the front face of the panel so as to conceal the space between the upper edge of the panel and the molding, and an outlet box located in said panel and communicating with the tapered channel or groove.

1,350,659. HANDLE FOR METALLIC VESSELS. WILLIAM C. LEAVITT, Norway, Me. Filed Sept. 6, 1919. Serial No. 322,170. 1 Claim. (Cl. 16—10.)



A handle for metallic vessels made of a strip of metal having a small hole through each of its two ends and so bent that in its bended form the two ends pass or extend by each other and the two holes are thus brought in registry, and means of attaching same to vessel by the use of a small bolt and nut: the bolt passing through the holes in the two ends described and vessel with nut turned into place firmly attaching handle to vessel, all substantially as described.

1,350,660. TOY DOLL. WALTER LENCHARD, McKeesport, Pa. Filed Nov. 1, 1919. Serial No. 334,999. 5 Claims. (Cl. 46—40.)

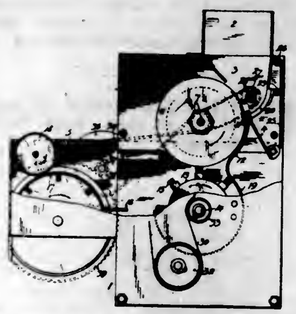


1. In a device of the character described, a body provided with a central vertical bore, a weight member slidable in said bore, and means for adjusting said weight member vertically for varying the position of the center of gravity of the device.

1,350,661. COTTON-GIN. SOLOMON K. LICHTENSTEIN, New York, N. Y. Filed Sept. 10, 1917. Serial No. 190,624. 5 Claims. (Cl. 13—9.)

1. In a cotton gin the combination of a ginning member of the cylinder type, a stationary opposing bar arranged near the periphery of the ginning cylinder and a plurality of laterally spaced ribs extending outwardly from the opposing bar and against which the cotton roll is adapted to press, the spaces between said ribs being adapted to permit the ginned cotton seeds to pass therethrough, said ribs having their top surfaces curved outwardly and upwardly from the opposing bar.

2. In a cotton gin the combination of a revoluble ginning member of the cylinder type, a stationary opposing bar arranged near the periphery of the ginning cylinder on the descending side thereof, and a plurality of spaced ribs extending outwardly from the opposing bar opposite the descending side of the cylinder and having curved top surfaces on which ribs the cotton roll is adapted to rest, the spaces between said ribs being adapted to permit the ginned cotton seeds to pass therethrough.

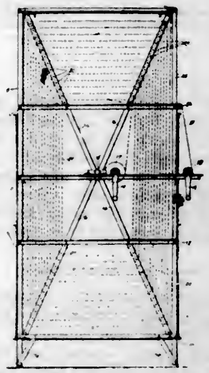


3. In a cotton gin the combination of a revoluble ginning member of the cylinder type, a stationary opposing bar arranged near the periphery of the cylinder on the descending side thereof and substantially in the plane of the axis of the cylinder, and a plurality of spaced ribs extending outwardly from the opposing bar, said ribs having concave top surfaces on which the cotton roll is adapted to rest, the spaces between said ribs being adapted to permit the ginned cotton seeds to pass therethrough.

4. In a cotton gin the combination of a revoluble ginning member of the cylinder type, a stationary opposing bar arranged near the periphery of the cylinder, a plurality of spaced ribs extending outwardly from the opposing bar, and having curved top surfaces on which the cotton roll is adapted to rest, the spaces between said ribs being adapted to permit the ginned cotton seeds to pass therethrough, a revoluble member arranged over the said ribs to cooperate with the cylinder to revolve the cotton roll and means for revolving said latter member and said cylinder in the same direction.

5. In a cotton gin the combination of a revoluble ginning cylinder, a roll box, a revoluble member in the roll box coöperating with the cylinder to form and revolve a cotton roll, and a plurality of stationary ribs having curved top surfaces forming the bottom of the roll box and spaced apart laterally to provide spaces through which the ginned cotton seeds may pass, said ribs being arranged to support the cotton roll formed in said roll box.

1,350,662. RACK. FRANK J. MACDONALD, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 29, 1918. Serial No. 237,214. 8 Claims. (Cl. 34—26.)



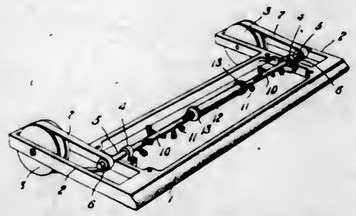
7. A rack for storing and handling thin flexible material, comprising a framework, a plurality of rollers in said framework, a flexible supporting sheet passed over said rollers in a circuitous path, a winding roller located at one end of the path and a second winding roller located at the other end of the path, and means for rotating the winding rollers to pass the sheet through said path in either direction.

1,350,663. QUICK-ACTION JACK. ALEXANDER W. MARR, Canton, Ohio. Filed Aug. 19, 1919. Serial No. 318,541. 17 Claims. (Cl. 254—103.)



1. In a device of the type described, the combination with a tubular standard, of a screw vertically movable therein, threaded means movable into and out of engagement with said screw for the purpose specified, and resilient means within the standard swiftly to elevate said screw when the threaded means are out of engagement therewith.

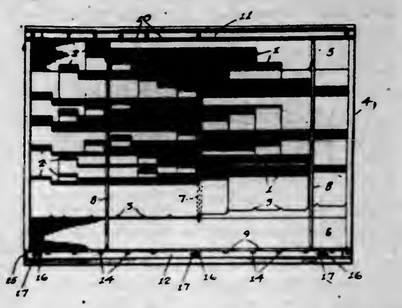
1,350,664. BRUSH FOR CARPET-SWEEPERS. GROVE R. MERRIMAN, Akron, Ohio, assignor to John R. Vander Putten, Akron, Ohio. Filed Oct. 27, 1919. Serial No. 333,530. 7 Claims. (Cl. 15—60.)



1. In a carpet sweeper, a pair of axially alined independently rotatable brushes and a coupling member connecting the inner extremities of said brushes, said brushes arranged for axial movement with relation to each other.

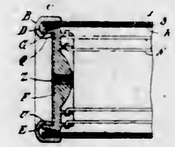
1,350,665. CARD-INDEX. HENRY MULLER, East Orange, N. J. Filed Aug. 8, 1918. Serial No. 248,982. 12 Claims. (Cl. 129—16.)

2. In a device of the class described, the combination of cards having series of notches in their lower edges, a box in which said cards may be shifted laterally, a fore and aft positioning member with which said notches may be selectively engaged, and laterally movable means extending lengthwise to the holder and arranged at the top



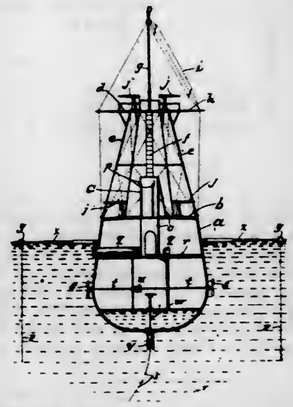
of the box and above the tops of the cards for guiding the cards into engagement with the positioning member.

1,350,666. STORAGE CYLINDER OR VESSEL FOR COMPRESSED AIR OR GAS. STEPHEN JAMES MURPHY, Drogheda, Ireland. Filed Dec. 6, 1917. Serial No. 205,770. 7 Claims. (Cl. 220—3.)



1. A storage cylinder or vessel for compressed air or gas, comprising a gas-tight cylinder or tube, end pieces for such cylinder or tube, each end piece being composed of two circular members adapted to engage with one another, a packing ring between the inner of said two members and the inner wall of the cylinder or tube, and means for connecting the inner member of one end piece firmly with the inner member of the opposite end piece, so that the longitudinal stress of the internal pressure may be borne by said connecting means rather than by the cylinder or tube.

1,350,667. FLOATING FORTRESS. JULIEN ORTIZ, Greenville, Del. Filed Apr. 7, 1917. Serial No. 160,345. 2 Claims. (Cl. 114—240.)



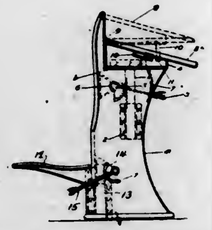
1. A floating fortress comprising a hull, struts having telescopic connections, floats carried by the struts, and nets depending from the floats, the struts being hinged to the hull to swing in a vertical plane.

1,350,668. MOTOR-VEHICLE. ELMER H. OVERSMITH, Buffalo, N. Y., assignor to The Buffalo Truck and Tractor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Oct. 21, 1918. Serial No. 258,952. 4 Claims. (Cl. 180—53.)



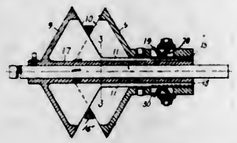
1. In a motor vehicle, the combination with the engine and the transmission gearing connected thereto, of a drive wheel, an auxiliary transmission gearing between said drive wheel and first-mentioned transmission gearing, and a second shaft adapted to be driven from said first-mentioned transmission gearing independent of said auxiliary transmission gearing.

1,350,669. ADJUSTABLE SCHOOL-DESK. DONHAM OWEN, Berkeley, Calif. Filed Jan. 15, 1917. Serial No. 142,362. 1 Claim. (Cl. 155—82.)



A desk of the character described comprising standards, carriers guided thereby and provided with rack teeth, an adjustable desk section attached to said carriers, a rock shaft mounted in said standards, quadrants carried by said rock shaft and meshing with the teeth of said carriers, a lever for actuating said rock shaft, and means on said lever and on one of said standards for locking said lever against movement.

1,350,670. SPEED-CHANGING MECHANISM. MATHEW RITTER, Freehold, N. J. Filed July 30, 1919. Serial No. 314,348. 2 Claims. (Cl. 64—8.)



1. In a device of the class described, a pulley comprising a plurality of intermeshing members adapted to be respectively positioned nearer or at a greater distance from each other, means to lock the members by the movement thereof, means for governing the said movement comprising a handle, and means comprising a manually actuated device located adjacent to said handle to release the said members from their adjusted position.

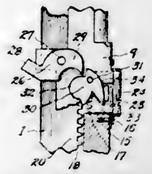
1,350,671. WRENCH. FRANK E. SAYRES, Thane, Alaska. Filed Dec. 17, 1919. Serial No. 345,537. 2 Claims. (Cl. 81—180.)

1. The combination with a wrench of the character described comprising a shank and relatively fixed and movable jaws mounted on said shank provided with apertures therethrough in the direction of the shank, of gripping plates mounted on the opposed faces of said jaws, posts



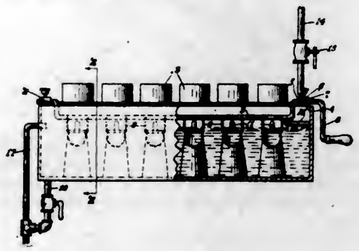
fixed to said plates and extending therefrom through said jaw apertures and having notches at their outer ends, and springs fixed to said jaws adapted to enter said notches to retain said plates in functional position in said jaws.

1,350,672. MONKEY-WRENCH. FRANK E. SAYRES, Thane, Alaska. Filed Dec. 17, 1919. Serial No. 345,538. 1 Claim. (Cl. 81—145.)



A wrench of the character described comprising, a shank bar having teeth along one edge thereof, a jaw fixed at the end of said shank, a jaw slidable along said shank having a recess therein provided with a lateral opening, a locking block slidable within said recess toward and from the shank and having teeth thereon adapted to interlock with the shank teeth, a cover for said recess, a spring located within said cover bearing against said block to urge the latter inwardly, a lug on the block extending through said lateral opening, a lever pivotally mounted on the slidable jaw having a rounded end engageable with said lug and having a head at its opposite end, a second lever pivotally mounted on the slidable jaw having an end engageable with said head and having a thumb shank at its opposite end whereby said levers may be actuated to move said block to release the movable jaw from the shank.

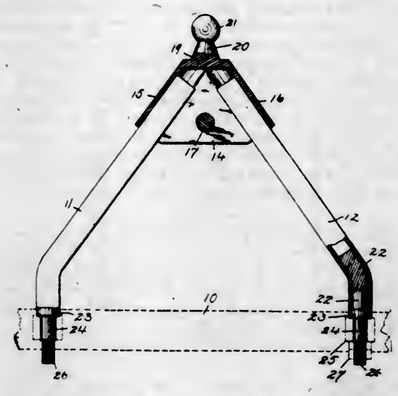
1,350,673. FILLING DEVICE. FRANK A. SEBRING and FRANK STROBL, Sebring, Ohio. Filed Nov. 5, 1917. Serial No. 200,283. 1 Claim. (Cl. 221—97.)



In a filling device of the character described, the combination of a trough adapted to hold a quantity of liquid, a crank shaft removably journaled upon said trough and arranged to normally extend within the trough, a plurality of U-shaped brackets carried by the crank shaft, a filling receptacle pivotally mounted upon each of said brackets and provided with forwardly disposed spouts at

their upper ends, the rear portion of each receptacle being cut away at its upper end to permit their being filled with the liquid in the tank while submerged therein, the crank shaft adapted to be rotated to lift the receptacles filled with liquid from the trough and to carry them to a point above the trough and tilt them into position to empty the liquid therefrom through said spouts, the forward faces of said receptacles resting upon the crank shaft when in the emptying position.

1,350,674. BRACING-FIXTURE. PETER H. SEERY, Newark, N. J. Filed Mar. 13, 1919. Serial No. 282,363. 4 Claims. (Cl. 267—66.)



1. A bracing fixture comprising a pair of divergent rods, a bracket adapted to grasp the ends of the rods where they converge, and a bolt fitting in the end of each rod opposite to its converging end, said bolt and rod being bent and adapted to form means for attaching the fixture to a support.

1,350,675. LIFTING-TONGS. JAMES H. SMITH, Salisbury Mills, N. Y. Filed Nov. 28, 1919. Serial No. 341,060. 5 Claims. (Cl. 294—115.)



1. In a grasping device, a rod, a cross head slidable on the rod, a pair of coacting gripping jaws connected with the cross head substantially U-shaped yokes longitudinally adjustable on the rod and provided with guide openings, and an operating rod slidble through the guide openings and connected with the cross head.

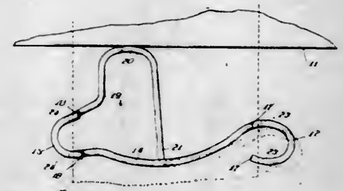
2. In a grasping device, a rod, a cross head slidable on the rod, a pair of coacting gripping jaws operatively connected with the cross head, U-shaped yokes adjustable longitudinally of the rod and each having one leg formed with the guide opening, an operating rod slidable in the guide openings and connected with the cross head, and an expansible coil spring encircling the first named rod and bearing against one of the yokes and the cross head to normally urge the jaws into coacting gripping relation.

3. In a grasping device, a rod, a cross head slidable on the rod, the ends of the cross head being disposed in a plane at right angles to the intermediate part of the cross head, a pair of links having their inner ends pivotally connected to the forward end of the rod, a pair of jaws pivotally connected to the ends of the cross head and having pivotal connection with the links, the gripping jaws being shaped to conform to the shape of the object to be grasped, an expansible coil spring on the rod and urging the cross head toward the forward end of the rod.

4. In a grasping device, a rod, jaws pivotally connected to the rod, a spring mounted on the rod for normally holding the jaws in closed position, a stop adjustably mounted upon the rod and engaging the spring, and a pull rod slidably carried by the stop and having connection with the jaws.

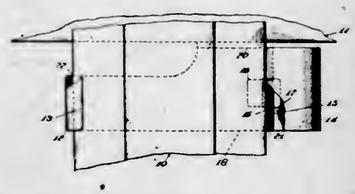
5. Lifting tongs comprising a rod, a short sleeve slidably mounted upon the rod, a cross head carried by the sleeve and extending beyond opposite sides of the rod, gripping elements embodying shanks pivoted to the ends of the cross head and jaws arranged at an angle to the plane of the shanks, links pivoted to said rod and shanks, a spring urging the sleeve forwardly on the rod, and a pull rod connected to the sleeve.

1,350,676. RAIL-ANCHOR. HIRAM H. SPONENBURG, Gurnee, Ill., assignor, by mesne assignments, to Otto R. Barnett, Chicago, Ill. Filed Oct. 3, 1919. Serial No. 328,252. 15 Claims. (Cl. 238—330.)



1. A rail anchor having jaws adapted to engage opposite edges of a rail base at a plurality of points; the distance between the jaws being normally less than the width of the rail base, and the device being adapted to be flexed to permit its application to the rail.

1,350,677. RAIL-ANCHOR. HIRAM H. SPONENBURG, Gurnee, Ill., assignor, by mesne assignments, to Otto R. Barnett, Chicago, Ill. Filed Oct. 3, 1919. Serial No. 328,254. 9 Claims. (Cl. 238—330.)

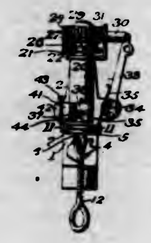


1. A rail anchor comprising a rail base embracing member formed at one end with a jaw for engaging one edge of the rail base and at the other end with an upwardly extending loop providing a jaw for engaging the opposite edge of the rail base; said loop being adapted to yield to permit the application of the device to the rail and exerts a spring pressure against the vertical edge of the rail when the device is applied to its operative position.

1,350,678. GAS-BURNER. GEORGE H. STEVENS, Woodbury Heights, N. J. Filed Oct. 29, 1919. Serial No. 334,120. 5 Claims. (Cl. 67—20.1.)

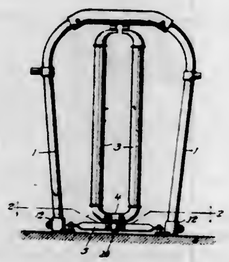
1. In a gas burner, the combination with the burner proper having a valve controlled inlet, of an abrading wheel, pyrophorous metal in contact with said wheel, a

spring actuated device to revolve said wheel, and shock absorbing means for said device to retain it in position to



be released and to absorb the shock resulting from its being released.

1,350,679. STANCHION-FASTENER AND SHOCK-ABSORBER. CHARLES M. STEVENSON, Rockford, Ill. Filed May 28, 1917. Serial No. 171,460. 6 Claims. (Cl. 119—147.)



1. The combination of a pair of spaced supports, and a stanchion, of attaching means including a resilient bar having its end portions connected with said supports, and means for connecting the stanchion to the said resilient bar intermediate the ends thereof.

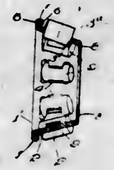
2. The combination of a pair of spaced supports, and a stanchion, of attaching means including a resilient bar, pivotal sliding connections between the end portions of said bar and said supports, and means for connecting the stanchion to the resilient bar intermediate the ends thereof.

3. The combination with a stall frame, and a stanchion having its upper end operatively connected with the frame, of attaching means including a bar extending horizontally across the lower end of the stall frame and having its end portions connected with opposite side bars of the frame, said bar having a resilient portion intermediate its ends, and means connecting the lower end of the stanchion with said bar intermediate the ends thereof.

4. The combination of a pair of spaced supports, and a stanchion provided with a projecting stud at one end, of attaching means including a bar having its end portions connected with said supports, said bar having a resilient portion intermediate its ends adapted to yield laterally, a plate secured to the bar intermediate the ends thereof, said plate having an opening extending therethrough, the stud on the stanchion fitting into the said opening.

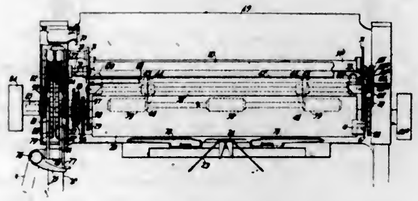
5. The combination of a pair of spaced supports, and a stanchion, of an attaching means including a resilient horizontally extending bar of general oblong shape in cross section, the bar being disposed with its broad side extending in a vertical plane and having end portions twisted a quarter of a turn, said end portions being connected with said supports, and means for connecting the stanchion to the resilient bar intermediate the ends thereof.

1,350,680. ROLLER-BEARING. FRANKLIN W. STEWART, Chicago, Ill. Filed Nov. 8, 1918. Serial No. 261,616. 3 Claims. (Cl. 64—38.)



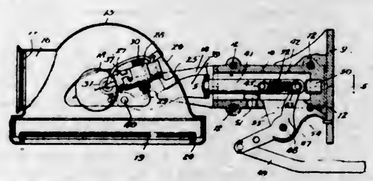
1. A roller bearing comprising two separate conical shaped roller retaining sections one within the other, the two sections adapted to be slid one within the other until the opposed parts thereof are brought into contact, the two sections fitting closely together, each section being provided with a plurality of openings for the rollers, said openings registering when the sections are in position, roller retaining projections at two opposed edges of the said openings of each section projecting along the faces of the rollers so as to prevent them from coming out of said openings, and means for holding said sections against relative longitudinal movement.

1,350,681. TYPEWRITING-MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., and ARTHUR A. JOHNSON, New York, N. Y., assignors to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 1, 1917. Serial No. 199,757. 98 Claims. (Cl. 197—127.)



1. The combination with a frame, of a platen revoluble for line-spacing and movable relatively to said frame to and away from printing position, a second platen connected to the first, so that either platen moves to printing position as the other moves away therefrom, the second platen mounted below the first, means for guiding and feeding work-sheets around the first platen, and means for guiding work-sheets to coöperate with either of said platens, the last-mentioned means including an introductory guide fixed upon said frame and extending from the rear downwardly and forwardly and under the second platen and up forwardly thereof, and also comprising a feeding couple upon said frame at the delivery side of the machine.

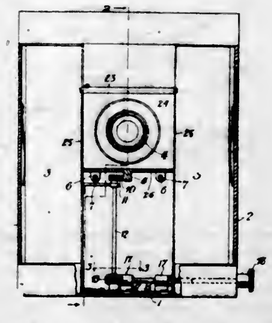
1,350,682. SIGNALING-LAMP FOR MOTOR-VEHICLES. THOMAS STOBS and WILLIAM LIGHTELL, Maywood, Ill. Filed Mar. 30, 1917. Serial No. 158,501. 4 Claims. (Cl. 116—43.)



1. In a signaling device for automobiles, the combination of a horizontally extending support, comprising a

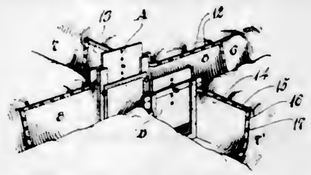
hollow stem having its front end adapted to be secured to an automobile and a rearwardly extending fork, a lamp casing pivotally held in said fork provided with means whereby different indications will be made by rotation of the casing, a lighting unit in the casing and means for vertically tilting the entire casing, comprising a rod longitudinally movable in said hollow stem and having its rear end connected to said lamp casing eccentrically of its pivot and a rocker arm for shifting the rod.

1,350,683. MOTION-PICTURE CAMERA. GEORGE R. STRINGHAM, New York, N. Y., assignor, by mesne assignments, to Martin V. Kelley, trustee, New York, N. Y. Filed Dec. 12, 1917. Serial No. 206,764. 8 Claims. (Cl. 88—17.)



1. In a motion picture camera, the combination with a camera casing and two film boxes mounted therein side by side with a central space between them, of a lens tube mounted between said film boxes entirely within the camera casing, substantially as set forth.

1,350,684. PORTABLE IRRIGATING DEVICE. FRANK SULLIVAN, Cusick, Wash. Filed Oct. 9, 1919. Serial No. 329,564. 2 Claims. (Cl. 61—29.)



1. The combination with a flexible apron adapted to form a protecting trough, of a pair of gate frames secured to and bracing said trough, gates in the frames, and outlet troughs from said gates.

1,350,685. METHOD OF PARCHMENTIZING FABRIC. JOHN M. TAYLOR, Radnor, Pa., assignor to Diamond State Fibre Company, Bridgeport, Pa., a Corporation of Pennsylvania. Filed July 24, 1917. Serial No. 182,452. 4 Claims. (Cl. 8—20.)



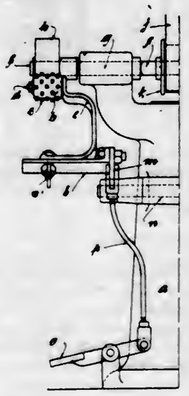
4. The method which consists in passing a web through a parchmentizing liquid; forming a roll of the parchmentized web; drawing said web from said roll through a body of washing liquid; forming it into a second roll while maintaining it at a constant tension; and thereafter repeatedly passing the web through the body of washing liquid also while it is maintained under constant tension until the strength of the liquid within the web is substantially the same as that of the washing liquid.

1,350,686. COLUMN CONSTRUCTION. JOHN R. TRUDELLE, Chippewa Falls, Wis. Filed June 27, 1919. Serial No. 307,142. 1 Claim. (Cl. 20—97.)



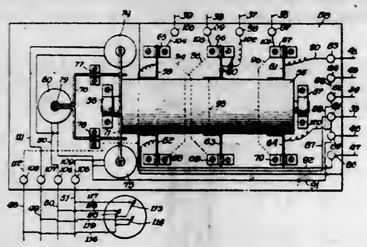
A column construction including a shell, bases associated with the ends of the shell, heads engaging the inner faces of the shell and secured thereto and to the bases, and having openings therein, a post having its end secured within the openings of the heads, spacing blocks carried by said post and engaging the inner face of the shell.

1,350,687. MACHINE FOR ORNAMENTING AND FINISHING THE SURFACES OF FELT HATS. WILLIAM ERNEST TURNER, Denton, near Manchester, England. Filed July 19, 1916. Serial No. 110,115. 2 Claims. (Cl. 223—30.)



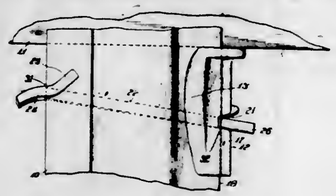
1. A machine for ornamenting felt materials, comprising in combination a frame work, an abrading or polishing roller, means to rotate said roller, a lever arm pivotally connected to the framework, an overhung pattern roller loosely mounted at the free end of said lever arm the peripheral surface of said pattern roller being provided with perpendicular stud like projections spaced apart at a distance which allows the felt material to sink around each projection when the latter is opposite the treating roller, together with foot operated means to bring and retain the pattern roller in engagement with the rotary treating roller, substantially as described.

1,350,688. DOOR-OPERATING MECHANISM. BURT M. WARNER, Chicago, Ill. Filed Jan. 14, 1918. Serial No. 211,736. 4 Claims. (Cl. 200—15.)



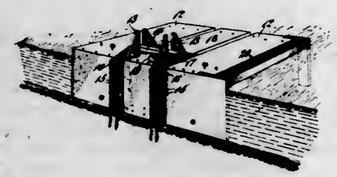
1. In a switching mechanism for a door operating system, the combination of a plurality of switch blades having alternate active positions, a plurality of switch contacts, first and second electromagnetic devices for moving said switch blades to said active positions as desired, circuit closers for controlling the operation of said electro-magnetic devices from a distance, mechanism for moving all of said switch blades to an inactive position, a third electromagnetic device for operating said mechanism, and a circuit closer for controlling the operation of said third electromagnetic device from a distance.

1,350,689. RAIL-ANCHOR. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1919. Serial No. 326,854. 18 Claims. (Cl. 238—329.)



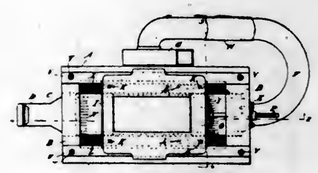
1. A rail anchor comprising a tie abutting member and a spring member adapted to engage opposite edges of the rail base and have an interlocking engagement with said tie abutting member.

1,350,690. WATERWAY REINFORCED CONCRETE CONSTRUCTION AND METHOD OF CONSTRUCTING THE SAME. JOSEPH STOKES WILLIAMS, Riverton, N. J. Original application filed Mar. 3, 1909. Serial No. 481,070. Divided and this application filed Jan. 21, 1913. Serial No. 743,238. 2 Claims. (Cl. 61—46.)



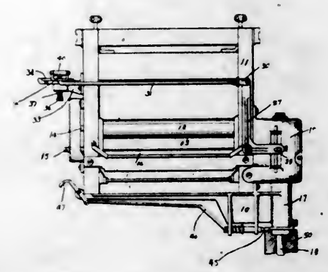
1. The method of forming a concrete construction within and upon a subaqueous bed, which consists in supporting upon a float an excavator and concrete filling mechanism, advancing the float to progressively form an excavation in the earth bed and to lay the concrete in the excavated space, floating a mold above a reinforced earth bed, sinking it into working contact therewith, placing concrete upon the reinforced earth bed, and molding the concrete by the contour of the mold.

1,350,691. SLIDING BASE FOR GRINDERS. MILTON F. WILLIAMS, St. Louis, Mo., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo., a Corporation of Missouri. Filed May 12, 1919. Serial No. 296,584. 3 Claims. (Cl. 83—11.)



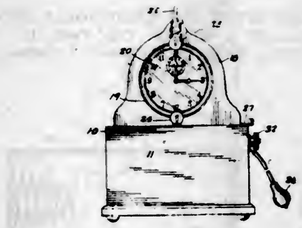
1. A device of the character described, comprising parallel stationary side sills separated to afford a space between them and securely anchored, a stationary pan open at the top and located in said space and having inlet and outlet connections, a slidable frame to support a grinder and mounted on said side sills above said pan, a grinder on said frame adapted to discharge into said pan, means to slide said frame and grinder carried thereon, and a closing plate located above the top of the said pan at each end and secured to and movable with the sliding frame forming slip joints for closing the top of said pan at each end of the frame, substantially as described.

1,350,692. WRINGER-CONTROL MECHANISM. OLIVER B. WOODROW, Newton, Iowa. Filed Apr. 30, 1918. Serial No. 231,610. 3 Claims. (Cl. 74—39.)



1. In a device of the class described, a support, a lever member pivoted thereon, having portions extending in opposite directions from its pivot, a lever pivotally mounted on said lever member, adapted in different positions of its pivotal movement to extend in substantially opposite directions from its pivotal point, means on said respective portions for coacting with said lever in its respective positions, whereby the movement of the lever may be caused to impart movement to said lever member, and a wringer having reversing mechanism operatively connected with said lever member.

1,350,693. ALARM-CLOCK. PETER BARLETTA, Lynbhurst, N. J. Filed Sept. 6, 1919. Serial No. 322,117. 3 Claims. (Cl. 58—19.)

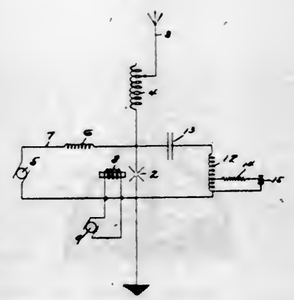


3. An electric alarm device of the class described comprising a clock, an electric bell, and electric light bulbs all placed in electric circuits, a switch device for controlling the circuits to said bell and clock, another swith for controlling the circuit to one of said bulbs and a switch device for controlling the circuit to the other of said bulbs, the first named bulb and said bell.

1,350,694. FILLER. WILLIAM H. ALTON, New York, N. Y., and ALBERT C. BATTELLE, Chicago, Ill., assignors, by mesne assignments, to Albert C. Battelle, Chicago, Ill. Filed Feb. 1, 1919. Serial No. 274,525. 2 Claims. (Cl. 134—58.)

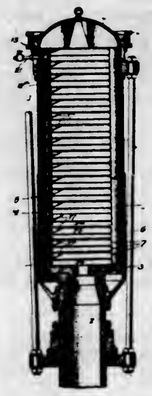
1. A filler consisting of a mechanical mixture of chemically precipitated calcium carbonate with finely ground natural carbonate.

1,350,695. RADIOTELEGRAPHY. RALPH R. BEAL, Palo Alto, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Oct. 8, 1917. Serial No. 195,259. 2 Claims. (Cl. 250—19.)



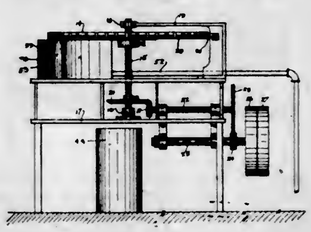
1. In a radio telegraphy transmission system, a source of oscillations, a radiating circuit and an absorbing circuit containing inductance both in parallel and shunted around said source, a circuit containing resistance arranged in shunt around said inductance, and means for opening and closing the resistance circuit.

1,350,696. VULCANIZING APPARATUS. OSCAR F. BECK, Lawndale, and JAMES W. SPEERS and ROBERT R. JONES, Akron, Ohio, assignors to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 4, 1919. Serial No. 280,529. 30 Claims. (Cl. 18—17.)



1. In combination with a vulcanizer having a movable platen, a source of pressure supply, a permanent distributing medium, and conduits leading from said medium to the several molds.

1,350,697. MACHINE FOR HARDENING KNIFE-BLADES. HERMAN BOCK, Meriden, Conn. Filed Dec. 5, 1919. Serial No. 342,637. 8 Claims. (Cl. 266—4.)

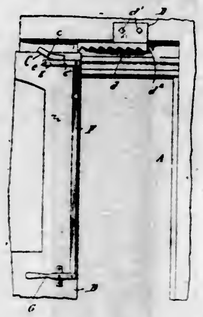


1. A hardening machine having a horizontally arranged work-carrying wheel, pivoted, spring-actuated, work-holding clamps carried thereby and constructed and arranged for exposing the part of the work to be hardened below the lower face thereof: means for automatically opening the said clamps for inserting the work prior to heating, and releasing it after heating; and a semicircular heating passage located below the plane of the lower face of the wheel in position to have the exposed lower portions of the work carried through it.

1,350,698. ELEVATOR-DOOR LOCK. FRANZ A. BOEDTCHER, Bergenfield, N. J. Filed Jan. 17, 1919. Serial No. 271,615. 4 Claims. (Cl. 292—233.)

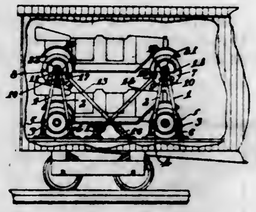
1. An elevator door lock embodying a serrated member adapted to be secured to a door casing, a coöperating gravity latch pivoted on the door associated with said casing, and adapted to normally gravitate into engagement with one of the serrations of said member, when the door is in closed or partially closed position, to lock the same against retrograde movement, a manually operable

push rod, and a member for operatively associating the push rod with the latch, said member serving to normally maintain the latch in a position to engage with the serrated member to lock the door in closed or partially



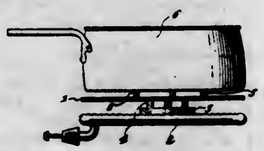
closed position, and being operable by the push rod to shift the latch against gravity free from the serrated member to unlock the door and allow of the opening thereof.

1,350,699. ADJUSTABLE FRAME FOR SHIPPING VEHICLES. GEORGE A. BOUVIER, Detroit, Mich. Filed July 9, 1919. Serial No. 309,566. 8 Claims. (Cl. 105—368.)



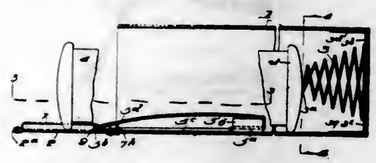
1. In a shipping frame for vehicles, a semicircular wheel receptacle for each vehicle wheel, a pair of metal tubes secured to each wheel receptacle extending outwardly therefrom at an angle to a vertical plane passing through the longitudinal axis of the vehicle and sockets on the lower ends of the said tubes in which the said tubes are adjustable.

1,350,700. GAS-SCREEN. THOMAS ABRAHAM BROOKS, Newton, Kans. Filed July 11, 1919. Serial No. 310,067. 1 Claim. (Cl. 126—215.)



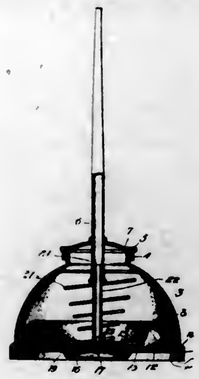
A device of the character described comprising a circular disk adapted to be supported above a burner and provided with a plurality of series of circular holes of uniform size and spaced apart at equal distances, the outermost series of holes having their centers lying at the periphery of the disk and being only semi-circular whereby the periphery of the disk will be serrated, a circular series of lugs rising from said disk, and a ring with upwardly projecting arms for supporting said disk.

1,350,701. CONTAINER FOR MUSIC-ROLLS AND THE LIKE. CHARLES S. BURTON, Oak Park, Ill. Filed Sept. 23, 1919. Serial No. 325,645. 7 Claims. (Cl. 206—5.)



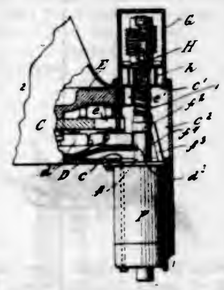
1. A container for rolls and the like comprising a tubular box closed at one end and open at the other end; a closure hinged at one edge of the open end of the box; a spring at the closed end reacting toward the open end for expelling the contents; a spring device having one end secured within the box at the side thereof, the other end engaging the closure at the inned side of the latter, and a slideway on said inner side extending transversely of the hinge of the closure to the box, with which slideway said spring device engages for drawing and yieldingly holding the closure to closed position.

1,350,702. OIL-CAN. EDMUND S. CHURCH, Chicago, Ill. Filed Nov. 28, 1917, Serial No. 204,344. Renewed July 9, 1920. Serial No. 395,117. 7 Claims. (Cl. 221—48.)



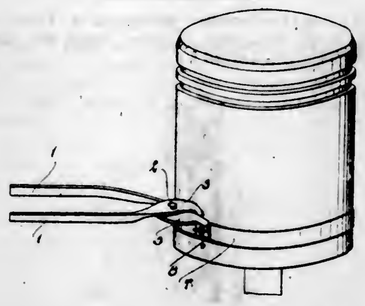
1. In an oil can, the combination of a can body, a discharge spout connected to the body, a thumb plate disposed in the lower portion of the body, a flexible diaphragm having its margin secured to the body and its central portion secured to said plate and bowed between the plate and the body to permit continuous movement of the thumb-plate to discharge oil from the body, and a spring for retracting the thumb plate.

1,350,703. STARTING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. ALEXANDER CHURCHWARD, New York, N. Y. Filed May 28, 1919. Serial No. 300,483. 3 Claims. (Cl. 290—47.)



3. In combination, a transmission system, comprising a fly wheel and a stationary magneto coil support; an electric starting motor; a shaft driven thereby, and a bearing for said shaft located between the fly wheel and the stationary magneto coil support.

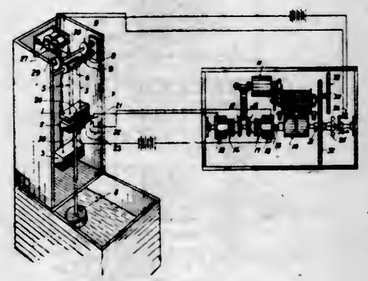
1,350,704. PISTON-RING CLAMP. EDWARD O. CLARK, Spokane, Wash., assignor of one-half to Edward S. Redeker, Spokane, Wash. Filed Sept. 2, 1919. Serial No. 321,071. 1 Claim. (Cl. 29—86.1.)



The combination with the pivoted, crossed handles having flat portions and outstanding pins fashioned with annular grooves, of an open band having end loops supported on the pins, and a spring clip for each pin projecting through a slot in the loop and engaging said grooves.

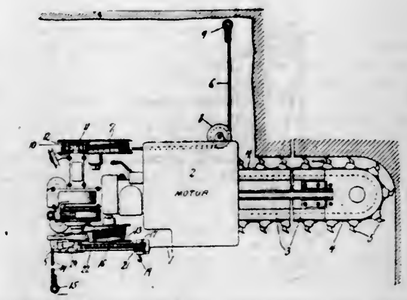
1,350,705. APPARATUS FOR RECORDING OR INDICATING THE MOVEMENTS OF A MASS. ATHOL WILFRIL CLARKE, Chorlton-cum-Hardy, near Manchester, England. Filed June 2, 1919. Serial No. 301,310. 5 Claims. (Cl. 234—10.)

1. Apparatus for recording remotely the movements of a body or mass comprising means for registering or recording the movements of the body or mass in combination with actuating mechanism adapted to act in both directions, an electro-magnet and a make and break contact acting in synchronism with the registering or recording mechanism to control the circuit of said electro-magnet, an escapement actuated by said electro-magnet, a measuring member, mechanism regulated by the escapement and controlled by the measuring member to actuate the switch of two electrical circuits which transmit operative power to controlling or actuating mechanism, the actuation of



which determine the period and direction of movement of the registering or recording element, substantially as described.

1,350,706. MINING-MACHINE. CHARLES E. DAVIS, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 1, 1911, Serial No. 636,383. Renewed Jan. 21, 1920. Serial No. 353,092. 1 Claim. (Cl. 262—30.)

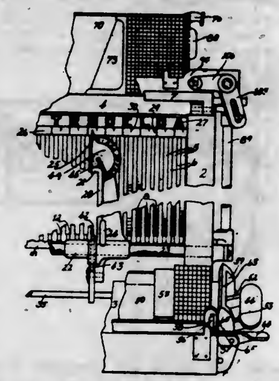


A mining machine comprising a frame, a cutting device projecting therefrom, a feeding mechanism for feeding the cutting device laterally toward the material to be acted upon, a motor for actuating the feeding mechanism, a retarding device for retarding one end of said machine comprising a drum mounted on said frame and disconnected from said motor, a flexible power transmitting device connected with said drum and with a fixed part at a distance from the machine, a gear connected with said drum, a worm wheel operatively connected with said gear, a worm engaging said worm wheel, and means for manually rotating said worm so as to rotate said drum.

1,350,707. TYPESETTING-MACHINE. GEORGE P. DAVIS, Fresno, Calif. Filed Dec. 12, 1918. Serial No. 266,376. 27 Claims. (Cl. 276—3.)

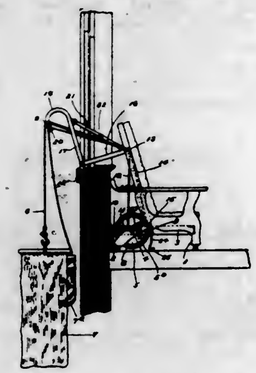
4. In a typesetting and distributing machine, a series of type channels each individually keyed to receive similarly keyed type, a holder for a block of "dead matter," a distributing mechanism adapted to intermittently move type in succession across the upper open ends of the channel, a setting up mechanism movable adjacent the lower ends of the channels, mechanism for ejecting a type from the lower end of any of the channels into the re-

ceiver, mechanism for ejecting a type at a time from the holder for "dead matter," and manual means for simulta-



neously operating the ejecting mechanism of the receiver and of the holder for "dead matter."

1,350,708. FIRE-ESCAPE. HANLEY M. DAVIS, Cambridge, Mass. Filed June 9, 1920. Serial No. 387,608. 1 Claim. (Cl. 227—9.)

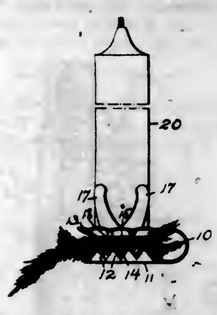


A fire escape comprising, in combination, a chair or other portable carrier, a reel or drum mounted thereon carrying one or more ropes, a car or basket suitable to hold one or more persons suspended by said rope or ropes, braking means for retarding the unwinding revolution of said reel or drum, a rope by which an occupant of the car or basket is able to control said braking means so as to regulate the descent of the car or basket, and means for carrying said ropes up and over a window-sill and supporting them at a distance from the outer wall of a building comprising an extension device consisting of arms adapted to occupy an upstanding working position and provided with guides for the different ropes, radius bars in pivotal connection at their inner ends with the carrier and at their outer ends with said arms, and braces for said arms, said extension device adapted to rest upon a window sill when the fire escape is in use and to fold down out of the way at other times.

1,350,709. METHOD OF AND ARTICLE FOR ALLOYING TUNGSTEN. JOHN HOWARD DEPPELER, Weehawken, N. J., assignor to Metal & Thermit Corporation, Chrome, N. J., a Corporation of New Jersey. Filed Oct. 28, 1919. Serial No. 333,870. 3 Claims. (Cl. 75—1.)

1. The method of forming an alloy of tungsten with another metal which comprises compressing tungsten powder into dense, coherent, self-sustaining tablets, and adding the tablets to the alloying metal.

1,350,710. CANDLE-HOLDER. CARL H. DIETZE, Jr., Newark, N. J. Filed Apr. 23, 1920. Serial No. 375,995. 1 Claim. (Cl. 248—42.)



A candle holder for Christmas trees and the like comprising a strip of easily bendable metal having its side edges at one end serrated and turned down to form parallel rows of outwardly projecting teeth, the other end being dished, the concave side of the dished part being on the opposite side to that from which the teeth project, the dished portion having slits therein, a second piece made of easily bendable metal having projecting arms adapted to lie normally flat and with the major portion of said arms within the dished portion and also adapted to be bent up to form a candle grasping means, said second piece having clips passing through and bent over in the slits of the first piece, the whole device being adapted to be transported and packed in substantially flat form and being bendable into supporting and grasping position when required for use.

1,350,711. MARIONETTE. MATHURIN M. DONDO, New York, N. Y. Filed Mar. 3, 1920. Serial No. 363,000. 10 Claims. (Cl. 46—40.)



1. In a figure, movable organs and a joint between each pair of adjoining organs capable of permitting universal and at the same time arcuate movements of said organs and rigid means for moving said organs relative to one another.

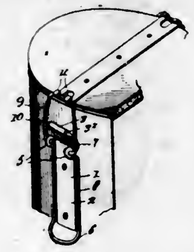
1,350,712. BONNET. JEAN GOLDSMITH DUPONT, Chicago, Ill. Filed Jan. 15, 1917. Serial No. 142,352. 2 Claims. (Cl. 2—118.)



1. A bonnet consisting of a single flat piece of fabric having marginal holes therein and removable gathering

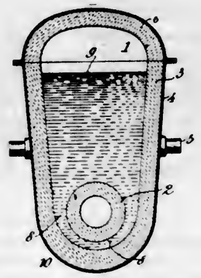
means comprising an elastic strip and a loose non-elastic covering around the elastic, both the elastic strip and covering extending through the marginal holes.

1,350,713. ELASTIC-SPRING-CLAMPING-CATCH HOLDER. GUY W. FERDON, Cresskill, N. J. Filed May 27, 1919. Serial No. 300,147. 3 Claims. (Cl. 292—247.)



2. A clamping and locking device comprising in combination, an ear piece adapted to be secured to a face of the part to be locked and having an outstanding ear piece having an ear at its end coiled therein in its own plane, a lever of stout wire doubled, having its ends pivoted in said ear, said lever being bent to form a nearly closed loop and thereby to form in its length a ball socket, said loops opening inward extending not so far as the ear socket, and having its inner faces both sides the loop adapted to be in the same plane as the ear piece, an elastic ball piece pivoted in said lever socket, and a hook coöperating with said ball piece.

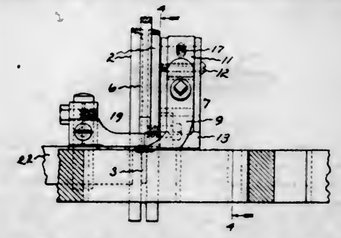
1,350,714. PROCESS OF TREATING METALS AND ALLOYS. CHARLES BRUCE FOLEY, Brooklyn, N. Y. Filed June 29, 1917, Serial No. 177,625. Renewed Jan. 19, 1920. Serial No. 352,638. 13 Claims. (Cl. 204—64.)



1. The process of treating molten metals which comprises reducing the metals to a molten state, passing an induced electric current through the mass, and maintaining at each locality of heat addition by said current a hydrostatic head which exceeds the vapor tension of the mass at the temperature there being generated.

1,350,715. FEEDER FOR METAL-WORKING MACHINES. URI D. FOSTER and JOHN LITKE, Hartford, Conn., assignors to The Hart & Hegeman Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 17, 1919. Serial No. 283,120. 10 Claims. (Cl. 10—165.)

1. The combination of a chute to receive articles in the form of headed shanks, the chute supporting the heads of the articles for feed therealong, means for positively swinging forward away from the chute the lower



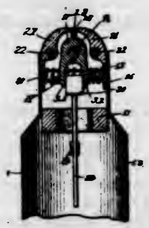
portion of the advance article emerging therefrom, and means for imparting a movement to the article in a direction transverse to its line of movement along the chute.

1,350,716. RELEASE-HOOK. ARTHUR E. FREEMAN, Toronto, Ontario, Canada. Filed Nov. 12, 1918. Serial No. 262,153. 13 Claims. (Cl. 9—23.)



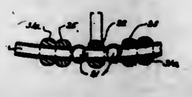
1. A device of the character described, having in combination, a holder, a pivot on said holder, a hook having two arms and mounted intermediate said arms on said pivot, one of said hook arms being provided with a circular aperture and with an open ended passage leading out of said aperture, and a locking stud rotatably mounted on said support and having a portion thereof projecting into the said aperture and flatted, the least width of said passage being greater than the least distance across said stud portion and less than the greatest distance across said stud portion.

1,350,717. POWER-OPERATED RAZOR. WARNIE ALBERT FUSCH, Decatur, Ill. Filed Oct. 31, 1919. Serial No. 334,743. 4 Claims. (Cl. 30—12.)



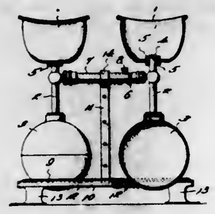
3. A razor of the character described comprising a frame, a shaft arranged centrally therein, a rocker cutter carried by the shaft and provided upon its forward side with a helical blade having oppositely arranged shearing edges, rearwardly spaced arms carried by the rocker cutter, means engaging the arms to oscillate them, a pair of shafts secured to the frame and arranged upon opposite sides of the first-named means, coacting blades pivoted upon the last-named shafts and having their forward ends extending across the rocker cutter and provided with spaced shearing edges slidably contacting with the helical blade, and yielding means to move the coacting blades into contact with the shearing blade.

1,350,718. FASTENING DEVICE. THOMAS R. GAINES, Norwood, Ohio. Filed Sept. 15, 1917, Serial No. 191,639. Renewed July 8, 1920. Serial No. 394,806. 10 Claims. (Cl. 24—128.)



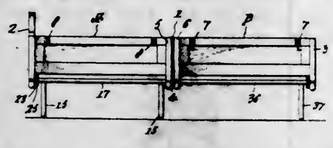
8. A fastening device including a hollow expansible member, an arresting element of larger caliber adapted to be impelled through said member against a loop or bend on the run thereof, a check adapted to be positioned adjacent to said element, and a compressing lock slidable upon the exterior of the member contiguous to said check.

1,350,719. EYE SYRINGE AND MASSAGE DEVICE. EDWARD H. GALLIGAN, Providence, R. I. Filed Nov. 3, 1917. Serial No. 200,143. 1 Claim. (Cl. 128—249.)



An eye syringe comprising a pair of cups, a tube for each cup, a bulb associated with the end of each tube, each tube projecting through an opening in the cup supported thereby and having its upper end threaded, a collar on each tube for supporting the bottom of said cup, a nut associated with the threaded end of said tube, means for connecting the cups for lateral adjustment, and a support to both of said cups.

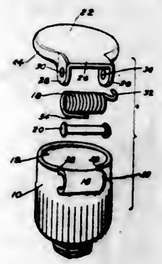
1,350,720. COMBINED FOLDING BED AND BUREAU. ALEXANDER GHITTINO, New York, N. Y. Filed Mar. 26, 1919. Serial No. 285,176. 3 Claims. (Cl. 5—52.)



1. An article of convertible furniture involving a folding bed and bureau including companion sections hinged together for collapse, columns journaled to rotate on the bottoms of said sections, legs secured to said columns and adapted to fold against the bottoms of the sections, locking plates carried by and rotatable with said columns and having perforations therein, spring-pressed latches carried by said sections and arranged to engage through the perforations in said plates for locking the legs either in the operative or folded positions, the ends of the latches being exposed through the perforations for engagement to retract said latches, and means for preventing the escape of the latches through the perforations.

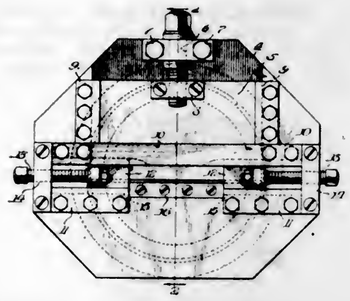
1,350,721. OIL-CUP. JULIUS P. GITS, Chicago, Ill. Filed Dec. 15, 1919. Serial No. 345,024. 3 Claims. (Cl. 184—91.)

2. An oil cup including a body having a projecting integral hinge inclosing strip of metal initially extending from one side thereof, then laterally bent first outwardly then downwardly to form a retaining device on the side of the cup for the pivot mechanism of the hinge, a cover over the top of the cup, having ears extending to the sides of said strip, a spring with a pivot pin inclosed therein



mounted inside the strip member with the ends of said pivot pin in engagement with said lugs on the cover, while the ends of the spring are detachably locked one to an ear on the cover, the other between the end of the inclosing strip and the body of the cup, so that it will force the cover closed, for the purposes set forth.

1,350,722. ADJUSTABLE DIE FOR RUBBER-EXTRUDING MACHINES. DANIEL E. GOODENBERGER, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 11, 1919. Serial No. 329,954. 3 Claims. (Cl. 19—12.)

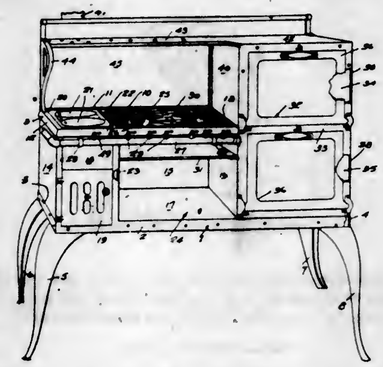


1. In a machine for extruding rubber or similar material a die, a guideway on the face of the die, a plate slidably mounted in the guideway, means for adjusting the plate to project over the mouth of the die to a greater or less extent, and laterally adjustable plates to vary the width of the opening.

1,350,723. COMBINED GAS AND COAL RANGE. CLARENCE R. GRAHAM, Newark, Calif. Filed Sept. 15, 1919. Serial No. 323,823. 2 Claims. (Cl. 126—36.)

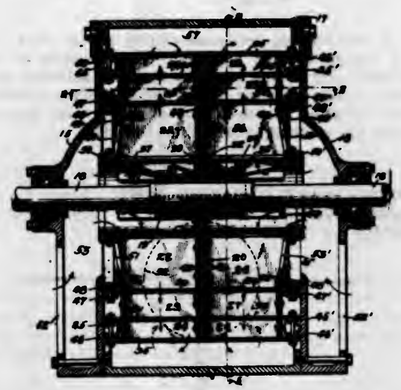
1. A combined gas and coal range having a bottom structure with corner legs, a firebox in one end of the bottom, a top for said box, superposed baking and broiling ovens on the other end of said bottom and spaced horizontally from the fire-box to provide a chamber having an open front and a closed back therebetween, a set of gas burners arranged at the top of said chamber, a plane grating coplanar with the said top and above the gas burners, a drip pan below the burners and forming a

top for said chamber between the said box and said ovens, one of the ovens being below and the other above the



plane of said burners, and a gas service pipe extending along the front of top structure and having a kindling burner to the fire-box.

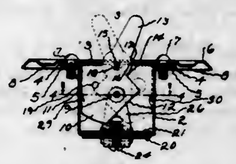
1,350,724. MULTISTAGE CENTRIFUGAL BLOWER. THOMAS W. GREEN, Trenton, N. J. Filed Aug. 9, 1918. Serial No. 249,079. 27 Claims. (Cl. 253—189.)



1. In a centrifugal fluid pump, a pair of coaxial, cylindrical fixed partitions of different diameter having ports out of line radially, in combination with a rotor having vanes at an angle to the radii, the inner and outer surfaces of the vanes, considered radially, being of smaller circumferential extent than the ports so that they are incapable of covering the edges of adjoining port openings and bearings for the rotor.

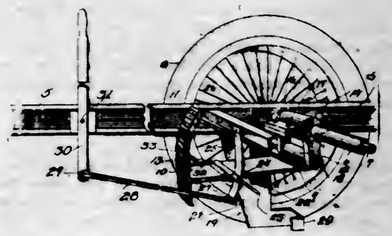
1,350,725. ELECTRIC SWITCH. MONROE GUETT, Hartford, Conn., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed July 15, 1919. Serial No. 310,934. 4 Claims. (Cl. 200—162.)

4. An electric switch comprising a case provided with a cover having an opening, a flat segmental carrier of insulating material, in the case, an operating arm for the carrier, rigidly associated therewith and extending through said opening in the cover, a pivot connected with the segmental carrier approximately at its junction with said arm, the cover having means to support the pivot and thus permit oscillation of the carrier by said arm, contacts in the case, and a rivet supported by the



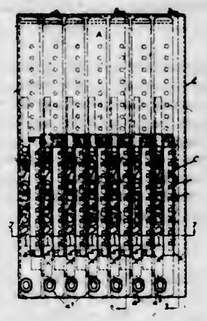
carrier and constituting a switching member, the arm as it is rocked causing the switching member to move between and into engagement with said contacts and then out of such engagement.

1,350,726. BRAKE ATTACHMENT FOR AUTOMOBILES. HENRY WALLEMAR HAAPANEN, Telluride, Colo. Filed Aug. 5, 1919. Serial No. 315,500. 6 Claims. (Cl. 188—5.)



5. In a device as herein characterized, in combination, a road engaging shoe pivotally suspended from the underframe of an automobile and positioned to engage the ground by a swinging movement inside the vertical plane of the vehicle wheel, a rigid stop carried by the underframe and projecting across the path of said shoe to limit its rearward swing, the active end of said shoe extending radially beyond the circumference of the vehicle wheels, and common means for holding said shoe in inactive position and to release the same for action.

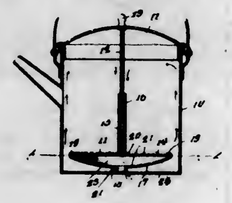
1,350,727. COMPUTING-MACHINE. ALTON D. HARMON, Erie, Pa., assignor of one-third to John S. Owen and one-third to Annie W. S. Strong, Erie, Pa. Filed Feb. 10, 1919. Serial No. 276,148. 3 Claims. (Cl. 235—69.)



1. In a calculating machine, a face plate having a slot therein, a back plate, an adding slide between said face and back plates under said slot, a longitudinally

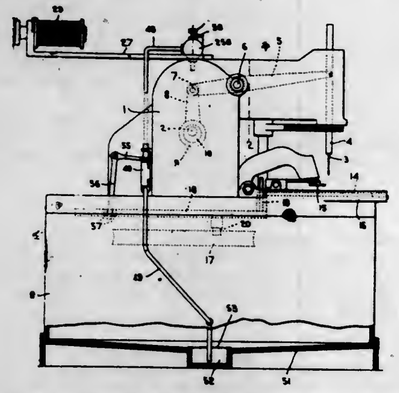
movable transfer signal slide between said face plate and said adding slide, an ear on one end of said transfer signal slide extending across said slot and another at the opposite end thereof extending across the next adjacent slot in said face plate, substantially as set forth.

1,350,728. MEANS FOR ESTABLISHING AUXILIARY CONVECTION IN LIQUID-CONTAINERS. OTTO E. HUEBNER, Brooklyn, N. Y. Filed Jan. 23, 1915. Serial No. 4,001. 2 Claims. (Cl. 53—8.)



2. In combination, a container, an inverted cone member located centrally within the container, a tubular member extending upright from the cone member, a cover for the container, and a rod depending from the cover to enter the tubular member to support the cone member and to permit vertical adjustment of the latter.

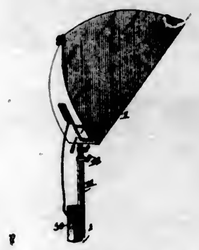
1,350,729. BUTTONHOLE-SEWING MACHINE. JOHN KIEWICZ, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Aug. 7, 1916. Serial No. 113,444. 2 Claims. (Cl. 112—256.)



2. In a buttonhole sewing machine, the combination with a frame carrying stitch-forming mechanism, of a work clamp, means for actuating the work clamp to feed the work, operating means for the stitch-forming mechanism, an oil reservoir situated above said operating means, means to deliver oil from said reservoir to the operating means to lubricate the same, a pump secured to said frame, and means actuated by the work-clamp-feeding means to operate the pump.

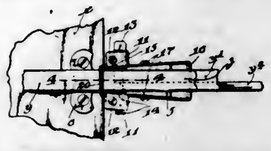
1,350,730. FLASH-LIGHT BAG. GEORGE ALBERT LEY, Chicago, Ill. Filed Mar. 11, 1918, Serial No. 221,822. Renewed July 13, 1920. Serial No. 395,994. 13 Claims. (Cl. 67—30.)

1. In a flashlight bag, a hood supporting staff, shank, a collar slidable on the shank and having a pivotal connection to the staff, ribs radiating from the slidable collar, a brace collar affixed to the lower end of the shank, braces radiating from said collar and pivotally connected to the respective ones of the ribs, and a connecting link



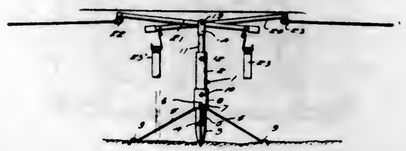
pivotally secured between the brace collar and the staff, adapted to be moved past the dead center when the hood is opened, to retain the hood in the open position.

1,350,731. WELT-FORMING DEVICE. ANTON W. LILJEBERG, Minneapolis, Minn. Filed June 12, 1919. Serial No. 303,669. 6 Claims. (Cl. 12—67.)



4. A welt-forming device comprising a base block having a bed plate, knife holders movably mounted on the base block and having clamping heads, a splitting knife carried by said clamping heads, and means for simultaneously adjusting the knife holders to vary the distance between the splitting knife and the bed plate.

1,350,732. CATTLE-GRAZING POST. LUKE C. McKENZIE, Clinton, N. C. Filed Jan. 17, 1920. Serial No. 352,136. 1 Claim. (Cl. 119—117.)

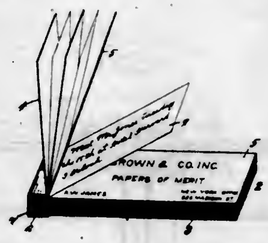


A cattle grazing post comprising a sleeve, a penetrating point secured to one end of the sleeve, a cuff mounted on the sleeve, means for holding the cuff in adjusted position, anchoring arms pivotally carried by the cuff, hooked ends formed on the lower terminal of the arms, a rod adjustably mounted on the upper end of the sleeve, attaching members rotatably carried by the upper end of the rod, arms pivotally secured to the members intermediate their ends, loops attached to one end of the arms and weights attached to the opposite end of the arms, as and for the purpose specified.

1,350,733. COMBINATION CARD AND MEMORANDUM-BOOK. EUGENE A. OLSON, East Hartford, Conn. Filed Nov. 22, 1919. Serial No. 339,881. 1 Claim. (Cl. 281—38.)

A combination card and memorandum book comprising cards, each card having a stub and a printed card portion removably connected with the stub, means for binding

the stubs and therefore the cards together, and writing sheets held in the book by the binding of the stubs and each card being interposed between two sheets to thus in-



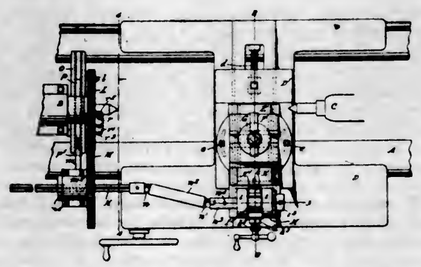
close the same and therefore to protect the printed surfaces thereof, the stock of the writing sheets being thinner than that of the card members.

1,350,734. MEANS FOR ELECTRICALLY MARKING UPON METALS. WILLIAM S. OVERLIN, Portland, Oreg. Filed Nov. 24, 1919. Serial No. 340,175. 1 Claim. (Cl. 175—265.)



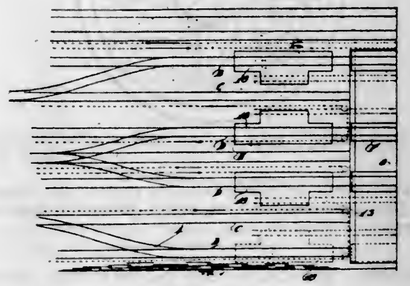
An electric pen, comprising a core, a wire coiled around said core, means to connect one end of said wire to an electric circuit, the other end of said wire being bent out and back to form a spring, and a marking point carried by the end of said spring portion of the wire.

1,350,735. RELIEVING ATTACHMENT FOR LATHES OR THE LIKE. BURLAND J. PHILLIPS, Buffalo, N. Y. Filed Mar. 26, 1919. Serial No. 285,319. 22 Claims. (Cl. 82—19.)



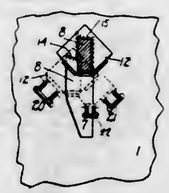
1. In a relieving attachment for a lathe, the combination with a face plate, of a slide base member, a slide member movable relatively to said base member, a cam on one of said members, and means for driving said cam from said face plate to cause said slide member to move relatively to said slide base member.

1,350,736. GRAIN-UNLOADING PROCESS AND GRAIN-CAR TRACK CONSTRUCTION. HENRY RICHARDSON, Passaic, N. J. Filed Nov. 22, 1919. Serial No. 339,819. 5 Claims. (Cl. 214—50.)



1. In an apparatus of the character described and in combination a plurality of parallel tarcks, transverse tracks set at the end of the parallel tracks and extending across the same, a transversely movable table mounted on the transverse track and adapted to convey a car from one to the other of the parallel tracks, and means for collecting grain from the table during movement.

1,350,737. TELEPHONE-OPERATING DEVICE. WILLIAM H. RIESS, Cincinnati, Ohio. Filed Mar. 2, 1917. Serial No. 152,104. 3 Claims. (Cl. 179—164.)

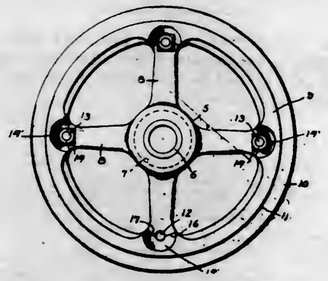


1. In telephone operating devices, electric communication between an exchange and individual telephones, a cut out and a receiver and connecting parts, and independent means for enabling the exchange to raise or lower said cut out, whether the receiver is on or off or the line is in or out of use.

1,350,738. CAR-WHEEL. RUDOLPH ROMADKA, Milwaukee, Wis. Filed Nov. 2, 1918. Serial No. 260,864. 3 Claims. (Cl. 295—19.)

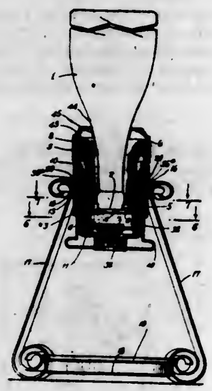
1. A wheel of the character described comprising, a hub; spokes radiating from said hub; a rim adapted to be arranged over said spokes and having transversely extending semi-circular recesses in its inner surface; shoulders formed on the opposite sides of said semi-circular recesses, said shoulders being inclined longitudinally and curved transversely; enlarged heads formed on the

outer ends of said spokes being adapted to interlock with said shoulders, said heads having semi-circular recesses



formed therein and alining with the semi-circular recesses of said rim; and bolts adapted to extend through said recesses.

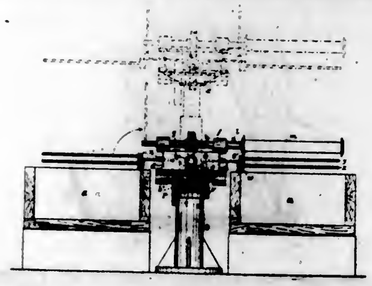
1,350,739. MEASURING LIQUID-DISPENSER. ALONZO N. ROSE, Mount Vernon, N. Y. Filed Feb. 18, 1916. Serial No. 79,106. 22 Claims. (Cl. 221—115.)



3. In a measuring dispenser for liquids, the combination of a support for the inverted bottle, a measuring chamber surrounding the lower end of the support and into which the mouth of the inverted bottle projects so that the rising of the liquid within the chamber automatically seals the mouth of the bottle to stop the flow therefrom, the said bottle support and measuring chamber being relatively adjustable to vary the distance between the mouth of the bottle and the bottom of said chamber to vary the quantity of liquid measured by the said chamber, means for drawing off the liquid from the measuring chamber, a cut off device adapted to cut off the flow of liquid from the bottle when the said drawing off means is opened, the said cut off device being operatively connected with said drawing off means.

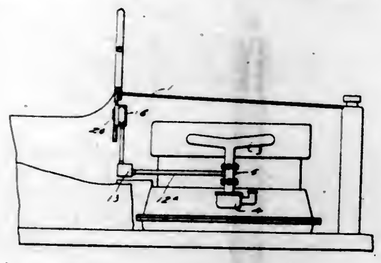
1,350,740. DYEING-MACHINE. EMIL SCHNUBBENBERGER, Paterson, N. J. Filed Jan. 9, 1920. Serial No. 350,273. 12 Claims. (Cl. 8—19.)

1. In a machine for treating skeins with liquids, the combination, with a vat for the liquor of treatment, of means to support a skein pendent in and to cause the skein to trail through the liquor including a skein-trailing mem-



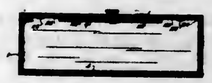
ber movable laterally in substantially a plane, and means to move said member in said plane.

1,350,741. SAFETY AUTOMOBILE-LOCK. JOHN GEORGE SCHWARTZ, New York, N. Y. Filed Apr. 6, 1920. Serial No. 371,652. 2 Claims. (Cl. 123—198.)



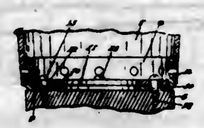
1. An automobile lock comprising an auxiliary housing, a lock housing, an angular casing connecting said housings, a self-closing valve in said auxiliary housing, a lock in said lock housing, a series of rods and bell crank levers in said casing for connecting the valve to the lock, and means connecting the lock to the switch of an ignition system.

1,350,742. DEPOSIT AND COLLECTION RECEPTACLE. MAX S. SHOLL, Chicago, Ill. Filed Apr. 21, 1919. Serial No. 291,685. 1 Claim. (Cl. 194—94.)



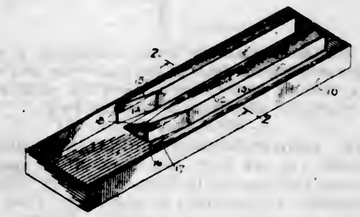
As an article of manufacture, a slotted casing provided with a removable drawer, a circular shafted rotary disk arranged within said casing and formed with peripheral markings adapted to be displayed individually and consecutively through one of the slots in said casing as said disk is rotated, lugs peripherally arranged upon said disk and alining with said peripheral markings, a coin passage within said casing, a rock bar fulcrumed to the shaft of said disk, a weight terminally carried by said rock bar to yieldingly retain the same in engagement with said coin passage, means fulcrumed to said casing and releasably engaging said drawer for normally retaining the same within said casing, a head peripherally carried by said disk for operative engagement with the last named means at each revolution of said disk, and a finger carried by said rock bar for engagement successively with said lugs.

1,350,743. ARTIFICIAL LIMB. GUSTAF SKOGLUND, Minneapolis, Minn. Filed May 12, 1920. Serial No. 380,797. 2 Claims. (Cl. 3—2.)



1. In an artificial limb, two adjacent limb members, a plate having a flange adapted to be fixed to one of said members, said plate having arc shaped slots therein, adjusting screws adapted to engage said slots and be secured in the other limb member.

1,350,744. SPACER FOR DISPLAY BOXES OR CARTONS. SIDNEY H. SONN, New York, N. Y. Filed May 24, 1920. Serial No. 383,835. 2 Claims. (Cl. 229—15.)

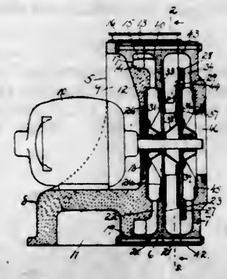


1. A blank for tie blocks, consisting of a rectangular piece of foldable material divided into parallel sided strips by fold lines disposed in pairs alternately on one side and the other on the blank, said blank further having slits formed at one end in alinement with certain of said fold lines and having triangular portions defined on certain of the strips by diagonal lines extending from the inner ends of certain slits.

2. A tie block consisting of a blank formed from a rectangular piece of foldable material divided into parallel sided strips by fold lines disposed in pairs alternately on one side and the other on the blank, said blank further having slits formed at one end in alinement with certain of said fold lines and having triangular portions defined on certain of the strips by diagonal lines extending from the inner ends of certain slits, said block being formed from said blank by bending the strips in threes to constitute ribs, bringing the free ends of the sides of the ribs together, bending the triangular portions of the blank down over said free ends and securing said triangular portions in place.

1,350,745. ROTARY AIR-PUMP. IRA H. SPENCER, West Hartford, Conn., assignor to The Spencer Turbine Company, Hartford, Conn., a Corporation of Connecticut. Filed Oct. 8, 1918. Serial No. 257,365. 11 Claims. (Cl. 230—11.)

1. A rotary air pump case comprising a number of sections of plastic material hardened, said case having fluid passages, members formed of a material different from that comprising the case secured within the material composing the case and extending into said passages, a



shaft supported within the case, and a fan secured to said shaft.

1,350,746. LATHE-CHUCK. HEINRICH SPILLMANN, Zurich, Switzerland. Filed Sept. 28, 1918. Serial No. 256,052. 1 Claim. (Cl. 279—114.)



A lathe chuck comprising a circular casing having radial grooves and a central hub, a driving plate secured to said hub, a machine surfaced plate revolubly mounted on said hub and having a flat spiral groove in its face, a spiral guide of harder metal in said groove, clamping jaws radially movable in the grooves of said casing and having teeth engaging said guide, and means to rotate said grooved plate.

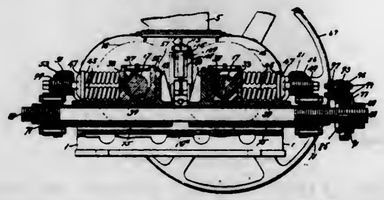
1,350,747. BALL-JOINT PISTON-CONNECTING ROD. FRANCIS J. STENGER, Detroit, Mich., assignor of one-half to Leo James Goyette, Detroit, Mich. Filed Aug. 30, 1919. Serial No. 320,819. 6 Claims. (Cl. 74—108.)



1. In a piston connecting rod ball joint and bearing, a ball carried by said rod, a hemispherical recessed seat in the piston to receive said ball, said seat adapted at its outer opening to receive a threaded lock-nut, the face of said seat provided with perforations circumferentially arranged, a lock-nut formed in halves overlapping said per-

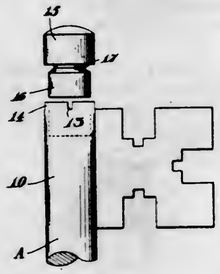
forated face slotted and threaded to receive a dowel screw adapted to seat in any one of said perforations so as to maintain said lock-nut in its adjusted relationship with said ball seat, and means for locking said dowel screw.

1,350,748. CRUSHING-ROLL MACHINE. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 13, 1917. Serial No. 148,407. 17 Claims. (Cl. 83—12.)



3. A machine of the character described, comprising, in combination, a bed, carriages slidably mounted on said bed, a pair of opposed crushing rolls carried by said carriages, a pair of adjusting shafts threaded to both of said carriages, worm wheels on said shafts adjacent one end of said base, a cross shaft having worms meshing with said worm wheels simultaneously to rotate said adjusting shafts to vary the space between said crushing rolls, heads connected to said shafts adjacent one end of said bed, and means detachably to secure said heads to said bed to confine said adjusting shafts against axial movement.

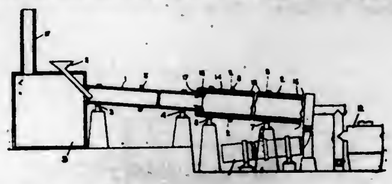
1,350,749. KEY. GEORGE ALEXIS SYLVAIN, Ottawa, Ontario, Canada. Filed November 18, 1919. Serial No. 338,838. 2 Claims. (Cl. 70—9.)



1. A key having a shank with a recess formed in the end of the same, and a projecting flange formed with radial cuts dividing it into a plurality of tongues, adapted to be bent inwardly, a plug having a reduced portion to fit the recess, and formed with a groove adapted to be engaged by the tongue when bent inwardly.

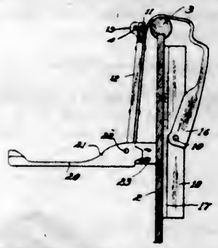
1,350,750. ROTARY KILN. ARTHUR E. TRUESDELL, Rutland, Vt., and LEWIS F. PHILLIPS, West Stockbridge, Mass. Filed Oct. 20, 1916. Serial No. 126,789. 4 Claims. (Cl. 222—7.)

1. In a rotary kiln, the combination with a rotatable cylindrical burning chamber, of means to deliver combustible gas and primary air to the lower end of said chamber, a jacket surrounding a portion of said chamber and open at one end to the atmosphere, and means constituting a communication between the other end of said jacket and the burning chamber at a point intermediate of



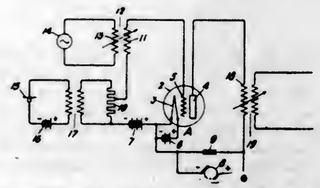
its ends whereby heated secondary air will be delivered to said burning chamber.

1,350,751. WINDSHIELD-CLEANING DEVICE. EDWARD A. TVERDAHL, Evanston, Ill. Filed Aug. 14, 1919. Serial No. 317,524. 3 Claims. (Cl. 15—59.)



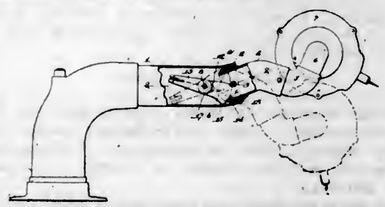
1. A windshield cleaning device comprising a guide, means for securing the guide to the upper edge of a windshield, a cleaning device slidable along the guide and a folding handle for operating the cleaning device.

1,350,752. HIGH-FREQUENCY SIGNALING. HENDRIK JOHANNES VAN DER BIJL, New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Aug. 21, 1915. Serial No. 46,643. 38 Claims. (Cl. 179—171.)



1. The method of modulating carrier waves which consists in generating carrier waves of substantially constant amplitude, and invariably amplifying the amplitude of said carrier waves in accordance with a signal.

1,350,753. TONE-ARM FOR TALKING-MACHINES. ANTHONY VASSELLI, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Filed Jan. 17, 1918. Serial No. 212,236. 7 Claims. (Cl. 274—23.)



1. A tone-arm having a pivoted member, a spring actuated lever within the tone-arm for securing the member

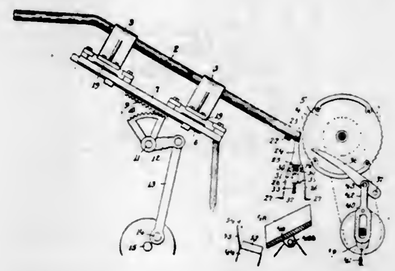
in a predetermined position, said member extending within the tone-arm to engage the lever and adapted to move the same to release the member.

1,350,754. SPRING-RETAINER. ANTHONY VASSELLI, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Filed Mar. 10, 1919. Serial No. 281,776. 6 Claims. (Cl. 185—45.)



5. A device of the character described, comprising a spring barrel, a shaft, a spring wound in spiral form within the barrel, means for attaching one end of the spring to the barrel, means on the shaft for attachment of the other end of the spring, and a member between the spring and the barrel, said member engaging the spring for the major portion of the outer periphery of the spring and of the inner periphery of the barrel, for retaining the spring in circular form.

1,350,755. WASHER-COUNTER. JOSEPH E. VINCENT, Cambridge, Mass., assignor of one-half to Missak Movsessian, Cambridge, Mass.; Edith L. Vincent administratrix of said Joseph E. Vincent, deceased. Filed Feb. 13, 1919. Serial No. 276,857. 10 Claims. (Cl. 214—1.)



3. The combination with means for manipulating annular articles, of an inclined rod presenting its lower end to said means, and supporting means for the rod consisting of two sets of gripping jaws each acting to grip the rod and hold it while the other releases it.

1,350,756. FOOD COMPOUND AND PROCESS OF PREPARING THE SAME. ARNOLD S. WAHL, Wheaton, Ill., assignor to The Arnold Wahl Institute, Chicago, Ill., a Corporation of Illinois. Filed Feb. 26, 1919. Serial No. 279,314. 17 Claims. (Cl. 99—10.)

14. The process of preparing food compounds which consists in forming a mash of starchy material and malt and holding the same at a temperature of approximately 60° C., to effect diastatic conversion forming a mash of wheat bran, lactic acid, and malt, and holding the same at a temperature of approximately 45° C., to effect proteolic conversion, subsequently combining said mashes, holding the combined mash at a temperature of at least 60° C., and drawing off the extract liquor.

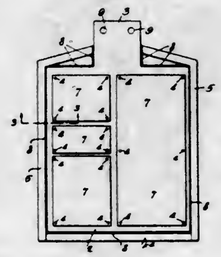
17. A fermentative food compound consisting of an aqueous extract of proteid and starch conversion products having a total solid content of at least 70%, a total acidity of at least 1.3%, whereof at least 0.8% is free lactic acid, and at least 80% of the solids being maltose.

1,350,757. SPARK-PLUG. CHARLES A. WELLMAN, Chicago, Ill., assignor to Wellman-Muter Corporation, Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1918. Serial No. 215,297. 8 Claims. (Cl. 123—169.)



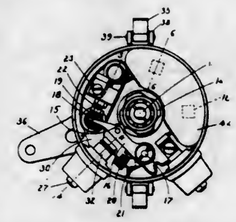
1. In a spark plug the combination with a shell, of a spark terminal thereon, an insulation core disposed in said shell, a second spark terminal supported by said insulation core, and a plurality of cleaning members on said second spark terminal normally disposed above and below said first spark terminal.

1,350,758. CASE FOR MATRIX-CARRIERS. WILLIAM H. WELSH, Collingswood, N. J. Filed Jan. 9, 1920. Serial No. 350,427. 6 Claims. (Cl. 204—5.)



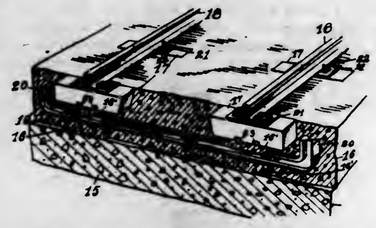
1. A protective frame for an electroplate backing consisting of a structure of insulating material formed to removably receive an insulated backing plate.

1,350,759. CIRCUIT-CONTROLLER. ANTHONY F. WILLIAMS, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed June 9, 1917. Serial No. 173,838. 7 Claims. (Cl. 200—19.)



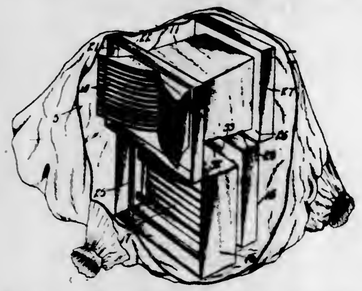
5. A circuit-controller having, in combination, a cup-shaped housing; a removable cap mounted on the housing; a plate fixed to the bottom of the housing and provided with a plurality of integral lateral projections of which one constitutes a lever-arm by which the housing may be turned, other of said projections being provided with pivot-lugs; and cap-retaining springs attached to said pivot-lugs and coöperating with said cap.

1,350,760. METHOD FOR BUILDING REINFORCED RAILWAY-BEDS. LYDELL L. WILSON, Randolph, N. Y. Filed Aug. 8, 1919. Serial No. 316,057. 6 Claims. (Cl. 238—7.)



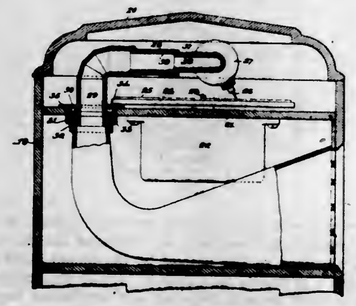
1. The method of building railway tracks which consists in providing a suitable concrete foundation, setting up thereon rail cushion blocks in spaced pairs and a bar under each pair of cushion blocks crosswise of the track on concrete blocks, attaching the track rails in parallel alinement on said cushion blocks, holding said rails in correct spaced alinement by removable spacing bars, and flowing the concrete around said bars and blocks to form a top railway bed on said concrete foundation.

1,350,761. FILM-DEVELOPING TANK. GILMER WINSTON, Memphis, Tenn. Filed July 10, 1919. Serial No. 309,856. 12 Claims. (Cl. 95—90.)



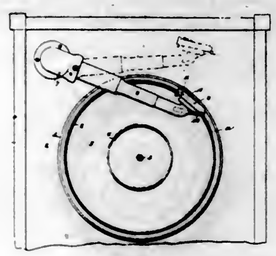
1. A developing apparatus comprising a pack composed of a plurality of spaced shelves one exposed edge of each shelf being straight and its opposite edge being curved, and light-excluding liquid-admitting means inclosing the film pack for further operation.

1,350,762. TALKING-MACHINE. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Oct. 25, 1915. Serial No. 57,740. 8 Claims. (Cl. 181—5.)



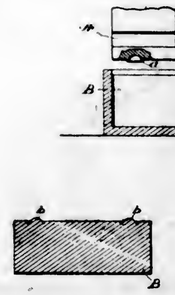
1. A sound conveyer for talking machines, comprising a sound passage, there being a plurality of confined air spaces surrounding said passage.

1,350,763. INDICATOR FOR PHONOGRAPH-REPRODUCERS. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Mar. 9, 1918. Serial No. 221,550. 5 Claims. (Cl. 274—9.)



1. A talking machine having a record disk, there being a record groove in the disk, a sound-box having a stylus for engagement with the groove, and means situated at the same distance from the center of the turn-table shaft as is the stylus and in proximity to that portion of the record groove adapted to be engaged by the stylus for indicating when the stylus is in position to engage the groove.

1,350,764. PAVING-BRICK AND METHOD OF MAKING THE SAME. FRANK W. WOOD, Indianapolis, Ind., assignor to The Danville Brick Company, Danville, Ill., a Corporation of Illinois. Filed Dec. 29, 1914. Serial No. 879,518. 2 Claims. (Cl. 25—102.)



1. A paving brick having projections on its side with each projection surrounded by a recess extending into the body of the brick at the base, substantially as set forth.

2. The method of forming paving brick with projections on the side which consists in first forming the brick and then subjecting them to a re-pressing operation under a die having depressions surrounded by projecting cup-shaped rims, substantially as set forth.

1,350,765. UNDERREAMER. CLYDE S. WRIGHT, Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 5, 1920. Serial No. 371,320. 5 Claims. (Cl. 255—75.)

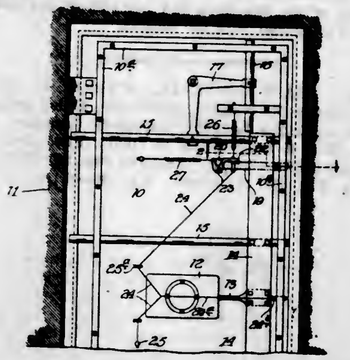
1. In an underreamer, a pair of opposed expanding cutters having tangs, a body with a bottom recess for the said tangs, means preventing the longitudinal movement of one cutter, a spring controlled rod longitudinally movable in the body, and a head on the end and in recesses in opposing faces of the tangs, the head being seated

against the inner ends of the recesses when the cutters are expanded, the recess in the fixed cutter permitting



the said head to travel as the other cutter is moved longitudinally out of the body.

1,350,766. AUXILIARY SAFE-LOCK. ADRIAN S. AILES, Chicago, Ill., assignor of sixty per cent. to John H. Taft, Chicago, Ill. Filed Jan. 20, 1920. Serial No. 352,701. 4 Claims. (Cl. 109—8.)



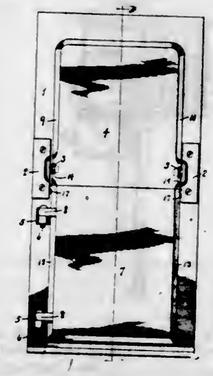
1. In combination, a safe having a door, a main lock thereon, an auxiliary lock bolt, a detent normally holding said auxiliary lock bolt in an inoperative position, means tending to force the auxiliary lock bolt into operative position, means tending to disengage said detent, a flexible member secured at one end to said detent and at the other to a stationary member whereby said flexible member when severed will release said auxiliary lock bolt.

1,350,767. STETHOSCOPE. FREDRICK C. ASCHBURNER, Chicago, Ill. Filed May 28, 1919. Serial No. 300,461. 4 Claims. (Cl. 181—24.)



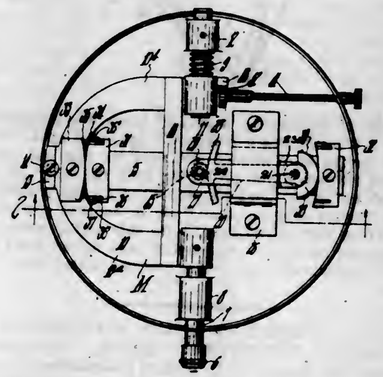
1. The combination with a stethoscope, of tubes projecting thereinto, and a set screw for retaining said tubes in adjusted position, said set screw in certain positions thereof adapted to permit said tubes to be slidably adjusted.

1,350,768. STOVE-DOOR. WILLIAM T. BARBOUR and WILLIAM L. MERSFELDER, Detroit, Mich., assignors to Detroit Stove Works, Detroit, Mich., a Corporation of Michigan. Filed May 26, 1919. Serial No. 299,790. 5 Claims. (Cl. 126—190.)



1. In a door construction, the combination of a casing having a pair of lugs and a door hinged thereon to swing on a vertical axis, a pair of brackets attached to the casing and positioned just above said door and having pintles in horizontal alinement parallel to the casing, a second door mounted on said pintles and having its face substantially uniform with the face of the lower door, said casing having a cross bar adapted to be engaged by the lower edge of the face of said upper door when swung down to open position.

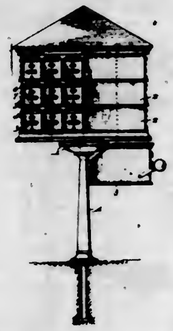
1,350,769. THICKNESS-GAGE. HENRY B. BARTLETT, Holyoke, Mass., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass., a Corporation of Massachusetts. Filed Mar. 20, 1919. Serial No. 283,772. 6 Claims. (Cl. 33—172.)



1. In a measuring instrument, a contact element, indicating means, and means for connecting the latter and said element, said connecting means including a slidable archlike yoke with one end of which said element is associated, a lever pivoted to swing substantially in the plane

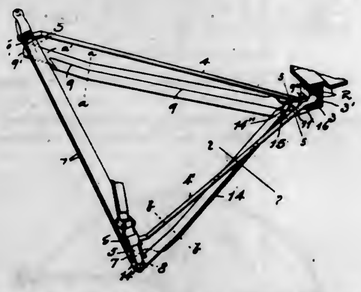
of movement of the yoke and having one end received within the arch thereof, means connecting such end and yoke for relative rolling movement, and means connecting said lever to the indicating means.

1,350,770. COMMUNITY-MAIL-BOX SUPPORT. WILLIAM B. BATES and EDWARD L. STONE, Roanoke, Va. Filed Feb. 3, 1917. Serial No. 146,454. 3 Claims. (Cl. 232—40.)



1. A community mail-box comprising a post, a base, rotatably supported on the upper end thereof, a sectional superstructure mounted on the base having a plurality of recesses extending in four different directions from a common center and individual mail-boxes located in these recesses.

1,350,771. AUXILIARY RADIUS-TRUSS FOR AUTOMOBILES. GEORGE G. BAYNE, Bushnell, Ill. Filed Dec. 24, 1917. Serial No. 208,631. 5 Claims. (Cl. 267—66.)



1. In an automobile, a pair of truss-rods arranged to form a truss having a rearwardly projected apex, one of them having an elongated slot near its rear end, and a button secured to and projecting from the other rod and having an oblong head adapted when in one position to pass through said slot and when in another position to lie across and extend beyond its side walls, means for connecting the front ends of said rods to the front axle of the automobile, and means for supporting their rear ends.

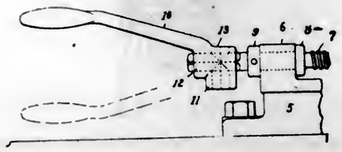
1,350,772. CENTERING MEANS AND METHOD OF FORMING MONOLITHIC ARCHES. WILLIAM M. FELT and HERSCHEL C. SMITH, Bloomington, Ill., assignors, by mesne assignments, to American Concrete Forms Company, Bloomington, Ill., a Corporation of Illinois. Filed Feb. 21, 1917. Serial No. 149,993. 6 Claims. (Cl. 25—131.5.)

4. In monolithic concrete arch construction in combination a plurality of arch rib centerings each comprising a series of connected mold sections having means to form a mold for the rib only, said connected mold sections having means for adjusting the rise and span of the rib centerings



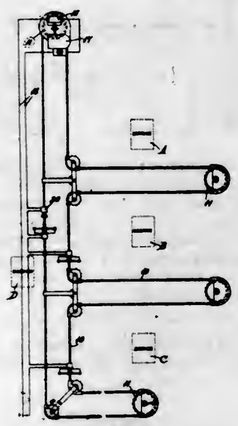
respectively and removable temporary supports resting at either end upon the adjacent sides of the rib centerings whereby to form a mold for the bottom of the barrel of the arch.

1,350,773. VISE-HANDLE. JOSEPH H. BENTLEY, Bridgeport, Conn. Filed Mar. 10, 1919. Serial No. 284,582. 3 Claims. (Cl. 74—33.)



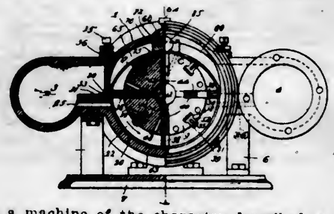
1. As a new article of manufacture an attachable handle formed of one piece, including a handle and hub portion, the latter having two intersecting elongated sockets formed at right angles to each other and centered on the same radial plane and on a radial plane with the handle, the said handle being disposed from the hub intermediate of the two open end portions of the sockets and out of alinement with the sockets.

1,350,774. CHAIN CONVEYER. CHARLES L. BRALEY and CHARLES E. WAREAM, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed June 22, 1917. Serial No. 176,358. Renewed Jan. 22, 1920. Serial No. 353,385. 3 Claims. (Cl. 193—2.)



1. In combination, an endless conveyer adapted to travel past a series of working stations and provided with a plurality of article carrying supports, driving means therefor, and means at each of said stations constructed and arranged to be actuated by articles on said supports and adapted when actuated to stop the movement of said conveyer.

1,350,775. ROTARY PUMP. AUGUST BRAUER, Independence, Mo., assignor of one-half to G. P. A. Weisenborn, Kansas City, Mo.; Charlotta Brauer executrix of said August Brauer, deceased. Filed Aug. 5, 1918. Serial No. 248,322. 3 Claims. (Cl. 103—44.)



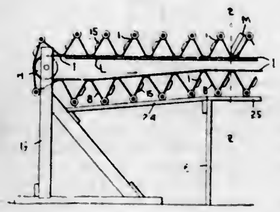
1. In a machine of the character described, a cylinder having inlet and outlet ducts, a journaled shaft extending through said cylinder, a rotor mounted upon said shaft, channels between said rotor and the interior of the cylinder and communicating with the inlet and outlet ducts, a bushing in the cylinder arranged eccentrically to the rotor and having inlet and outlet ports communicating with said channels, a companion bushing in the cylinder spaced from and arranged concentrically to the rotor, vanes slidable in the rotor and adapted to engage the inner surfaces of said bushings, and means extending through the cylinder to prevent the bushings from rotating.

1,350,776. BATHING-HAT. JOSEPH T. BROGDEN, Providence, R. I., assignor to Revere Rubber Company, a Corporation of Rhode Island. Filed Sept. 16, 1919. Serial No. 324,187. 7 Claims. (Cl. 2—106.)



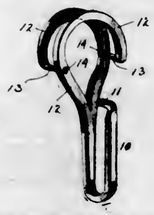
1. In a bathing hat, a frameless and seamless collapsible water-tight hat body of a size larger than the head of the wearer and at its open end closely fitting the head, and a flexible interior openwork body connected to the first one and adapted to conform to the head whereby the hat body is prevented from slipping down on the head.

1,350,777. CONVEYER FOR BAGS. BENJAMIN F. BROWN, Fitchburg, Mass., assignor to Brown Bag Filling Machine Co., Fitchburg, Mass., a Corporation of Massachusetts. Original application filed Sept. 3, 1912. Serial No. 718,270. Divided and this application filed July 27, 1917. Serial No. 183,123. 6 Claims. (Cl. 193—2.)



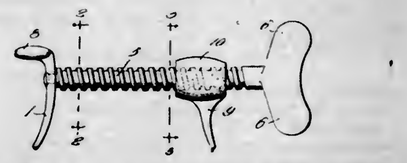
1. In an apparatus of the class described, an endless traveling conveyer having rotatable drums at the ends of the runs thereof, a series of regularly spaced bag supports pivotally connected with the conveyer, projecting therefrom at an oblique angle and provided with braces to maintain them in said angular position relatively to the conveyer when on the upper and lower runs thereof, bearing rolls connected with each support, and a fixed track beneath the conveyer and along which the rolls travel when the bag supports are on the lower run to sustain the same.

1,350,778. HARNESS-HOOK. TOM BURGESS, Corinth, Miss. Filed June 3, 1920. Serial No. 386,173. 1 Claim. (Cl. 21—79.)



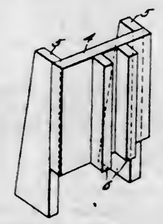
A device of the kind described comprising in a single piece a hook and an eye, the eye consisting of similar oppositely curved branches with a terminal stud opposite which is a hole, each branch being less than a circle and the stud of one branch being receivable in the hole opposite it in the other branch and the member from which the branches extend being a single piece that terminates in the hook and the two branches being bendable one toward the other to cause the stud at one branch to enter the hole in the opposite branch.

1,350,779. TIRE-CASING SPREADER. THOMAS CARDINELL, Mound City, Mo. Filed Oct. 22, 1919. Serial No. 332,405. 2 Claims. (Cl. 152—27.)



1. A spreader for tire casings, comprising a screw one end having turning means the other end being reduced to provide a shouldered extension, a traversing nut mounted on the screw and having a horn or integral casing engaging member with a concave face, a second horn or casing engaging member rotatively attached to the reduced end of the screw and provided with an integral grasping member or knob-like handle which extends laterally and is positioned above the longitudinal axis of the screw.

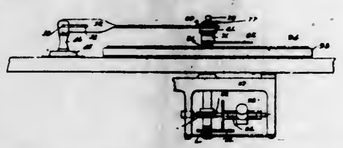
1,350,780. BOLSTER-STIRRUP. JOHN P. CARTER, Carter, Mont. Filed Sept. 6, 1918. Serial No. 252,930. 1 Claim. (Cl. 280—148.)



In combination with a wagon bolster having the usual upright standards, and a false bolster on the main bolster,

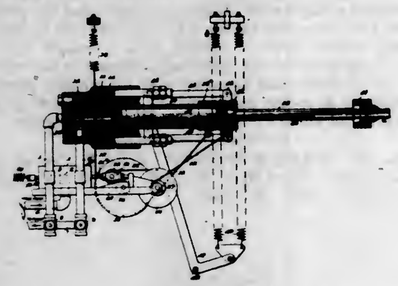
the ends of which fall short of said standards; plates positioned between the ends of the false bolster and said standards and equipped with cleats which embrace the latter, and a pair of side members carried by each plate and encompassing both of said bolsters, substantially as described.

1,350,781. STOP MECHANISM FOR TALKING-MACHINES. PLINY CATUCCI and ANTHONY VASSELLI, Newark, N. J., assignors, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Original application filed Apr. 8, 1915, Serial No. 20,050. Patent No. 1,277,545. Divided and this application filed Aug. 3, 1918. Serial No. 248,203. 4 Claims. (Cl. 74—46.)



3. A stop mechanism for talking machines, having a mandrel, a motor for rotating the same, a pivoted arm, a tubular shaft carried by the free end of the arm, said shaft adapted to engage the mandrel and rotate therewith, a thimble carried by the tubular shaft, a cross arm carried by the thimble, a spring interposed between the cross arm and the thimble, an index arm carried by the cross arm, a spindle movable longitudinally of the tubular shaft and rotatable therewith, a stop carried by the pivoted arm, a pin on the spindle, said pin engaging a spiral slot in the tubular shaft, a finger on the spindle, adapted to engage the stop whereby when the rotation of the index arm is arrested the tubular shaft and spindle will rotate relatively to each other, the spindle will by the engagement of the pin with the spiral slot move longitudinally of the tubular shaft, the finger will engage the stop on the pivoted arm, and the rotation of the tubular shaft, mandrel and motor will be arrested.

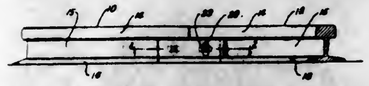
1,350,782. FLUID-REGULATOR. PLINY CATUCCI and LOUIS D. NADEL, Newark, N. J., assignors, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Original application filed Nov. 20, 1918, Serial No. 263,301. Divided in part and this application filed Nov. 20, 1918. Serial No. 263,302. 9 Claims. (Cl. 138—10.)



1. A fluid operated device having elements constructed and arranged to be moved at different rates of speed, and means operated by the elements for regulating the movement of the elements.

1,350,783. RAILROAD-JOINT. HARRY CHOMYN, Fox Valley, Saskatchewan, Canada. Filed July 2, 1919. Serial No. 308,289. 3 Claims. (Cl. 238—237.)

2. In a rail joint connection the combination with a pair of running rails having offset stems, flanged bases extending therebelow on the offset sides, said stems containing longitudinal slots, of projections extending outward from said stems adapted to pass through the slots in mating stems, and buttons pivotally secured on said



projections, said buttons passing through the mentioned slots when in a horizontal position, and engageable with the exterior of the mating stems when in a vertical position whereby said rails are firmly bound upon opposite sides.

1,350,784. SOAP-CAKE RETAINER. TEMPLE HERBERT COLBURN, Minneapolis, Minn. Filed July 21, 1919. Serial No. 312,162. 10 Claims. (Cl. 45—28.)



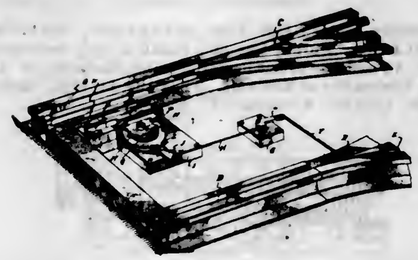
4. A soap-cake retainer comprising an anchor shank having a body with a relatively coarse screw-thread, one end of said shank having a relatively fine screw-thread, the body of said shank adapted to be screwed completely into a soap-cake to project its screw-threaded end therethrough, a cap adapted to be locked onto the projecting screw-threaded end of the shank, and a flexible connection for the cap.

1,350,785. CLASP. AMI CORNU, La Chaux-de-Fonds, Switzerland. Filed Mar. 5, 1920. Serial No. 363,488. 4 Claims. (Cl. 24—218.)



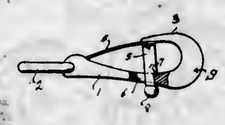
1. In a clasp, a member having a stud projecting therefrom, a socket member comprising a body portion having substantially parallel ribs forming a receptacle, a spring member in said receptacle, and a plate fixed in the said receptacle and having an opening therein with a portion thereof spanned by the said spring, there being an opening in the said body portion registering with the opening in the plate through which the said stud is adapted to pass and to be engaged by the spring to maintain the parts in an assembled relationship.

1,350,786. SWITCH-OPERATING MECHANISM. HENRY M. COREY, Flint, Mich. Filed Nov. 13, 1919. Serial No. 337,779. 5 Claims. (Cl. 346—328.)



5. The combination, with a main track, of a fixed and a pivoted tongue member whereby a siding track is placed in connection therewith, a bifurcated lever member operatively connected with said pivoted tongue member, and a rotatable gear wheel located between the branching portions of said lever member in position to be tripped by a car passing along said track, adapted to sharply engage one or the other of said bifurcated portions of said lever members, thereby actuating through it said pivoted tongue member.

1,350,787. SNAP-HOOK. DAVID J. DARKES, Fredericksburg, Pa. Filed Apr. 10, 1920. Serial No. 372,872. 1 Claim. (Cl. 24—241.)



The combination with a snap hook including a shank, a bill and a spring tongue secured to the shank and normally engaging the free end portion of the bill; a laterally disposed arm carried by the free end portion of the spring tongue, said arm being flat and having its side faces disposed in a direction longitudinally of the spring tongue, said arm being reduced in width to provide a shoulder in its outer longitudinal marginal portion inwardly of the outer end of said arm, the shank of the snap hook being provided with a slot through which the arm extends, said slot extending longitudinally of the shank, the shoulder of the arm of the spring tongue contacting with the inner face of the shank adjacent the outer end of the slot to normally hold the spring tongue against inward movement, said slot being of a length in excess of the width of the arm to permit inward movement of the arm to free the shoulder from the shank and to permit said arm to have free endwise movement through the slot.

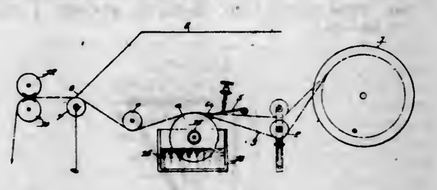
1,350,788. APPARATUS FOR CONTINUOUSLY SEPARATING JUICES FROM MATERIALS. GEORGE H. DAY, Cuba, Ill. Filed June 29, 1918. Serial No. 242,519. 7 Claims. (Cl. 100—35.)



1. An apparatus of the class described, including in its construction an endless belt-like carrier of fabric, a pair of spaced horizontally disposed rollers over which the carrier is trained, a pair of vertically disposed rollers stationed between the horizontal ones and toward and between which the carrier folded upon itself is adapted to travel, and spaced pairs of members disposed between the horizontal and said vertical rollers, the members of each pair being inclined at an angle to one another in opposite directions, and supporting the carrier, the angle of inclination of said members more nearly approaching a vertical position as their positions are closer to said vertical rollers.

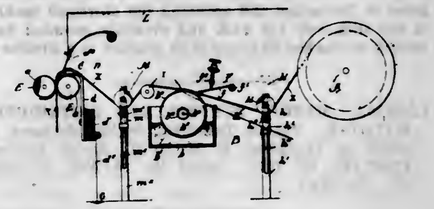
6. An apparatus of the class described including in its construction an endless fabric belt-like carrier, a pair of spaced horizontal rollers over which the carrier is trained, a material reducing cylinder arranged to discharge materials upon said carrier, means to drive the carrier including pressure rollers, and a member provided with a roughened surface disposed in the path of the carrier against which surface the carrier is adapted to bear in its travel.

1,350,789. APPARATUS FOR TREATING TELEGRAPH-TAPE. PATRICK B. DELANY, South Orange, N. J., and LOUIS W. SHUMAKER, New York, N. Y., assignors to Telepost Company, New York, N. Y., a Corporation of Maine. Filed Nov. 30, 1917. Serial No. 204,680. 4 Claims. (Cl. 91—51.)



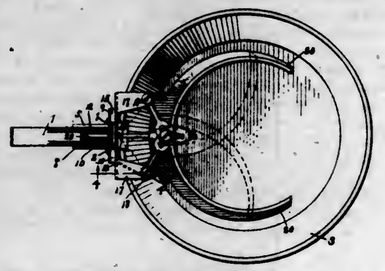
1. In an apparatus for treating telegraph tape, means for advancing the tape, a container of chemical solution, a wheel whose periphery is immersed in the solution and which is formed with a groove, and a wick in said groove, said tape passing in contact with the wick and the wick being narrower than the tape.

1,350,790. TELEGRAPHY. PATRICK B. DELANY, South Orange, N. J., and LOUIS W. SHUMAKER, New York, N. Y., assignors to Telepost Company, New York, N. Y., a Corporation of Maine. Filed June 12, 1918. Serial No. 239,575. 18 Claims. (Cl. 178—62.)



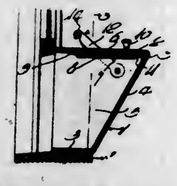
1. In chemical telegraphy means for advancing an absorbent record tape, means for applying a chemical solution to the middle portion only of the under side of the tape while being advanced, a ground contact over which the treated tape passes, and a contact connected to line which bears on the upper side of the tape and through which an electric current passes to the tape and thence to ground whereby metal is transmitted from said contact to the tape to produce telegraphic characters thereon.

1,350,791. MOP-WRINGER. WILLIAM DEQUEDE, New Orleans, La. Filed June 12, 1920. Serial No. 388,614. 5 Claims. (Cl. 15—12.)



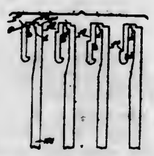
1. The combination of a bracket, two vertical pivots carried thereby, curved arms mounted thereon at different levels so that they may be swung across between each other, means to support the bracket on a pail, and means to swing the arms toward each other.

1,350,792. WINDOW-VENTILATOR. JOHN DIXON, Gary, Ind. Filed May 3, 1920. Serial No. 378,486. 1 Claim. (Cl. 98—31.)



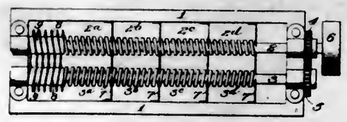
A window ventilator comprising an elongated open-sided box composed of a single sheet of metal bent to form a relatively wide top wall, an outwardly and downwardly inclined side wall and a relatively narrow bottom wall, the latter being disposed in parallelism with the top wall, the opposite ends of said sheet being bent laterally and inwardly toward each other to form continuous hooks; end walls for said box made of metal plates, each having three of its edges bent to form like hooks for engagement with the first named hooks, said top wall being provided with a plurality of outlet openings to communicate with the interior of the place to be ventilated, ledges secured to the underside of the top wall adjacent to and on opposite sides of the outlet openings, a slide movable in said ledges, being provided with openings to register with the outlet openings, a screen secured to the under faces of the ledges and spanning the aforesaid openings in the slide and top wall, and pivotally mounted hooks carried by the box to retain it in position in a window.

1,350,793. MATRIX SETTING AND DISTRIBUTING MACHINE. JULIUS DORNETH, Berlin, Germany, assignor to Typograph G. M. B. H., Berlin, Germany. Filed Jan. 12, 1917. Serial No. 141,937. 5 Claims. (Cl. 199—64.)



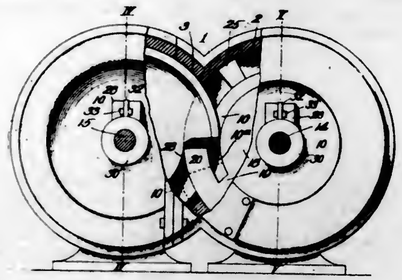
1. A linotype matrix having a suspension hook, said suspension hook having a central running part, and kerns adjacent said running part, on each side thereof, within the hook, for acting in conjunction with means on the linotype machine for effecting a distribution into groups of the matrices.

1,350,794. MACHINE FOR SEPARATING BUTTON-BLANKS. PHILIP EBY and LLOYD ANGLE, Rochester, N. Y., assignor to Art in Buttons, Inc., Rochester, N. Y., a Corporation of New York. Filed Aug. 14, 1916. Serial No. 114,706. 6 Claims. (Cl. 83—92.)



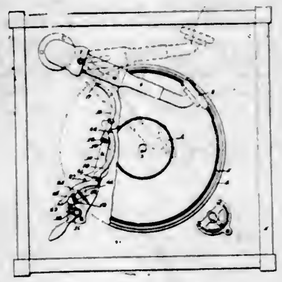
1. A button blank sorting machine comprising a pair of substantially parallel members spaced from each other and having opposed deep and narrow grooves, the edges of which form gage points for simultaneously defining the diameter and the thickness of a button blank.

1,350,795. ROTARY MOTOR. LANDY D. EPPERSON, Mount Washington, Mo. Filed Apr. 21, 1919. Serial No. 291,481. 1 Claim. (Cl. 121—71.)



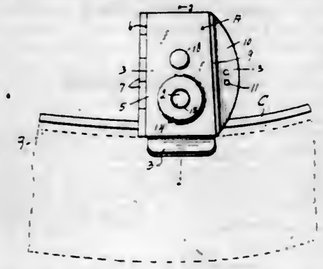
A rotary motor comprising a casing consisting of two members secured faceways together and conjointly forming intersecting circular piston and abutment chambers, the sides of the casing where respectively inclosed by said chambers being spaced slightly apart, shafts extending through and journaled in the casing axially of said circular chambers respectively and intergeared together, a piston rigid upon the shaft extending axially of the piston chamber, and comprising a circular disk fitting in the space between the adjacent sides of the casing and of less radius than the inner side of the piston chamber, an arm extending outward from said disk and a segmental piston rigid with said arm and engaging said piston chamber and of corresponding width therewith, a shaft parallel with the first-named shaft, extending through and journaled in the casing axially of the abutment chamber thereof, and a circular abutment mounted on said shaft and comprising a central portion fitting in the narrow space between adjacent portions of the sides of the casing, and a peripheral portion fitting in the abutment chamber, said abutment and its central portion having a cut away portion constituting a recess for receiving said piston; the sides of the casing between said shafts being provided with internal segmental recesses for snugly receiving the abutment and with opposite segmental recesses for receiving the piston when the same is in engagement with the peripheral recess of the abutment, and said casing at its abutment side also having an intake port and an exhaust port to be automatically closed and opened by the passage of the piston thereby.

1,350,796. AUTOMATIC STOP. PINCUS FARB, Saginaw, Mich., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed May 31, 1918. Serial No. 237,464. 7 Claims. (Cl. 74—46.)



7. A device of the character described, comprising a stationary member, a pivoted bell crank lever, a spring for moving the bell crank in one direction, a brake shoe carried by the bell crank and adapted to engage a moving part, a lug carried by the bell crank, a dog adapted to engage the lug to lock the bell crank against the tension of the spring, a lever carrying the dog, a spring attached to the lever, a pivoted arm, said arm engaging a pin carried by the lever, whereby movement of the arm in one direction will move the lever to release the brake, a stationary pin, there being a slot in the arm engaging the pin, whereby the movement of the arm will be limited, a pin on the arm, a pivoted tone-arm, a movable finger carried by the tone-arm, said finger being adapted to engage the pin on the arm to rock the latter, whereby the lever will be rocked and the brake released, and means for manually rocking the lever.

1,350,797. GUARD. CHARLES M. FOOTE, Nashua, N. H. Filed Mar. 20, 1920. Serial No. 367,314. 4 Claims. (Cl. 224—29.)

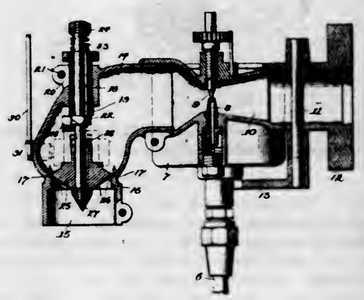


1. In combination with a bracket provided with an outstanding shank, a member through which said shank is disposed and a clamping nut engaged with the shank, a guard comprising two hingedly connected sections adapted to substantially snugly embrace the bracket and adjacent portion of the member, a wall of the guard being provided with an outstanding housing to receive the clamping nut, means for locking the sections against separating movement when applied, and additional means for securing the guard to the bracket and the member.

1,350,798. PROCESS FOR VULCANIZING RUBBER AND SIMILAR MATERIALS. WILLIS A. GIBBONS, Flushing, N. Y., assignor to American Rubber Company, a Corporation of Massachusetts. Filed Dec. 11, 1916. Serial No. 136,388. 12 Claims. (Cl. 18—53.)

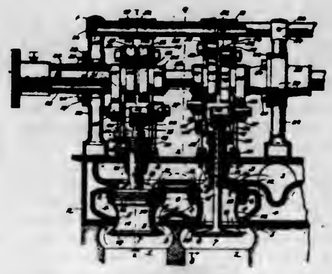
1. A process of the kind described, which comprises applying an inert gas as a vulcanizing medium to a vulcanizable plastic material in a chamber communicating with the atmosphere, and vulcanizing the plastic material by said inert gas while preventing the passage of air into the chamber by a counter-passage of gas.

1,350,799. CARBURETER. CHARLES R. GREUTER, Cincinnati, Ohio. Filed Feb. 23, 1917. Serial No. 150,415. 7 Claims. (Cl. 251—145.)



3. A suction-actuated valve for controlling the admission of air to a carbureter, said valve comprising a shell or casing having an admission port widening gradually in the direction of the flow of air through it; a weighted valve having a flaring or conical outer face dimensioned substantially to fill at its periphery the most contracted portion of said admission port; and a guide and limit stops for directing said valve in a limited vertical movement inward and upward from said contracted portion of the air port.

1,350,800. ENGINE-VALVE MECHANISM. CHARLES R. GREUTER, Detroit, Mich. Filed Aug. 22, 1918. Serial No. 250,995. 14 Claims. (Cl. 123—75.)

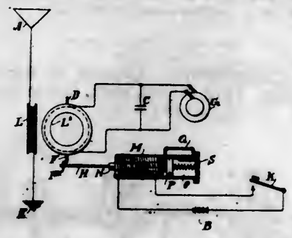


1. In combination with a valve seat, two concentric valves, one of annular form to close against said seat and provided with a seat for the second valve, and the other of disk form to seat thereon; and means for positively seating and unseating said valves.

1,350,801. RADIOTELEGRAPHY. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed May 28, 1913. Serial No. 770,315. Renewed Jan. 8, 1920. Serial No. 350,248. 9 Claims. (Cl. 250—19.)

1. In a radio transmission system, a transmitting station comprising a generator of high-frequency electrical oscillations, a movable inductance coil in circuit therewith, an electromagnet, means for energizing said electromag-

net, means controlled by said electromagnet for moving said inductance coil, means for retarding the movement



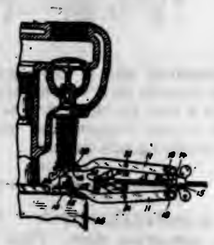
of said coil, and an antenna circuit having a coil in inductive relation to said movable inductance coil.

1,350,802. BAND-CUTTER AND FEEDER. CHAUNCY H. HILL, Hopkins, Minn., assignor of one-half to Minneapolis Threshing Machine Co., Hopkins, Minn., a Corporation. Filed Jan. 21, 1919. Serial No. 272,228. 11 Claims. (Cl. 130—1.)



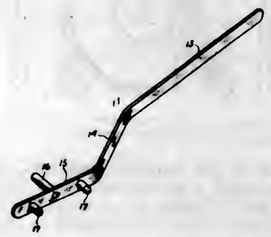
1. A grain feeding apparatus comprising a casing, band cutters mounted therein, an apron frame, an apron operating therein to deliver the bundles of grain to said band cutters, said apron frame having a section hinged to the inner end thereof forming an extension of the main portion of said frame, and over which extension said apron moves, said hinged portion being free to oscillate vertically and extending beneath and terminating near said band cutters to be depressed out of alinement with the main portion of said frame with the portion of the apron on said extension by the pressure of the bundles engaging the band cutters, and means for yieldingly resisting the depression of said apron frame extension.

1,350,803. COMBINED VALVE-LIFTER AND HAND-VISE. PERCY P. HINCKLEY, Meriden, Conn., assignor to Foster, Merriam & Company, Meriden, Conn., a Corporation of Connecticut. Filed Aug. 29, 1919. Serial No. 320,601. 2 Claims. (Cl. 29—86.3.)



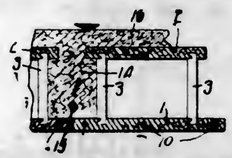
1. A tool of the character described comprising jaws having slots to receive a valve stem, strengthening flanges at their edges and U-shaped shanks, a bridge to which the shanks are pivoted, a threaded plunger which slides freely through the bridge and is provided with a flattened head, toggle levers formed from strips of metal bent at their midlengths, the branches of said levers being pivoted to the flattened head of the plunger and their connected ends being pivoted between the sides of the shanks, and a wing nut on the plunger adapted to bear against the bridge.

1,350,804. VALVE-GRINDER. PERCY P. HINCKLEY, Meriden, Conn., assignor to Foster, Merriam & Company, a Corporation of Connecticut. Filed Dec. 24, 1919. Serial No. 347,109. 1 Claim. (Cl. 51—4.)



A valve grinder comprising a handle having a downwardly extending offset to which is integrally attached a flat outer portion carrying a plurality of studs, one above said outer flat portion and two below the same, one of each of the lower studs being disposed adjacent opposite ends of said flat outer portion and adapted to engage a valve, and said upper stud adapted to pivotally carry said handle and to have disengageable connection with a member in which it is oscillatable.

1,350,805. BUILDING CONSTRUCTION. RALPH Z. HOPKINS, Detroit, Mich. Original application filed Feb. 26, 1914, Serial No. 821,145. Divided and this application filed May 11, 1917. Serial No. 167,882. 5 Claims. (Cl. 72—66.)



4. A structure including two blocks of molded non-metallic material having a jointed interlocking connection and thin inter-engaging metal facings for the blocks at the joint, said facings being anchored in the corresponding blocks and forming permanent parts thereof, the facing of one block conforming closely to the facing of the other throughout the joint.

1,350,806. BABY-CARRIAGE. HRYHORIJ HUCULAK, Clearing, Ill. Filed Jan. 13, 1920. Serial No. 351,170. 2 Claims. (Cl. 208—36.)



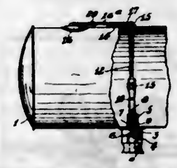
1. A baby carriage, comprising a body, front and rear wheels, the floor of said body having a rearward extension provided with an aperture for the legs of the operator, an operator's seat at the rear of said aperture, reciprocatory foot pedals below said aperture, gear trains operatively connecting said foot pedals with the rear wheels of the carriage, a pair of angular straps fixed to the said extension and having portions extending under the said pedals, and springs resting on said straps and acting to move said pedals upwardly.

1,350,807. DEVICE FOR CLEANSING THE INTERIOR OF BOTTLES AND OTHER RECEPTACLES. EDITH A. JACKSON, Prahran, near Melbourne, Victoria, Australia. Filed Feb. 19, 1919. Serial No. 277,951. 1 Claim. (Cl. 141—7.)



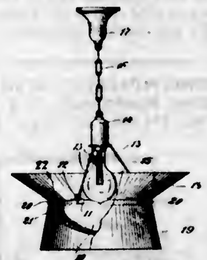
A bottle-cleaning device, comprising a malleable metal ball adapted to be attached to a supporting element and having a diametric split extending from one side thereof to near its center, the walls of said split being closed together; and a tuft of bristles having its intermediate part secured between said closed walls and its ends protruding beyond the ball, whereby the tuft may be removed from the wall and replaced by inserting a sharp-edged instrument into the split and expanding its walls.

1,350,808. FUEL-TANK FOR INTERNAL-COMBUSTION ENGINES. FREDERIK JENSEN, Rochester, N. Y. Filed Dec. 19, 1919. Serial No. 346,068. 3 Claims. (Cl. 158—46.5.)



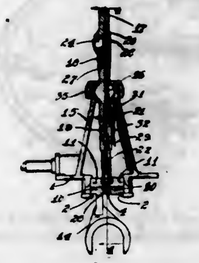
2. In combination with a fuel tank for internal combustion engines having an outlet; a valve for controlling such outlet comprising a casing member having a lateral port, a valve member mounted to turn in said casing and having two lateral ports, one above the other, the lower port being adapted to be brought into and out of register with the port in the casing member, and a projection within the casing member, operating in the port of the valve member to coöperate with opposite end of the port in order to limit the movement of the valve member in said casing member.

1,350,809. LIGHTING-FIXTURE. WILLIAM E. JEROME, Rockville Center, N. Y. Filed Dec. 19, 1919. Serial No. 345,991. 5 Claims. (Cl. 240—92.)



1. A lighting fixture comprising an upwardly flaring reflector and a downwardly flaring reflector joined at their smaller ends to form a single reflecting body, a translucent bowl and incandescent lamp around which the reflecting body is supported in such manner that the bowl is within the lower reflector and the lamp within the upper reflector.

1,350,810. GEAR-SHIFT-LEVER LOCK. COLVIN L. JOHNSON, Chicago, Ill., assignor to Johnson Automobile Lock Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 18, 1917. Serial No. 191,960. 4 Claims. (Cl. 70—128.)



1. In a device of the class described, the combination with a gear shift lever, of an apertured gear shift block support, gear shift blocks movably mounted therein on each side of said aperture, key-operated means within the gear shift lever adapted to be moved downwardly through the lower end of said lever into said aperture and between said gear shift blocks to hold said lever locked from movement, a hook on said lever and on said key operated means, and resilient means attached to said hooks for returning said key operated means to normal position.

2. In a gear shift lever lock the combination with a gear shift lever having a passage therein, a projection on said lever, key-operated means within said passage, a hooked locking member also in said passage connected with said key-operated means and adapted to be projected through the open lower end of said lever when said key-operated means is actuated, an apertured stationary gear shift block support below said lever to receive said locking member to hold said lever locked against movement, and means connected to said hooked locking member and to said projection for returning said hooked locking member to release position.

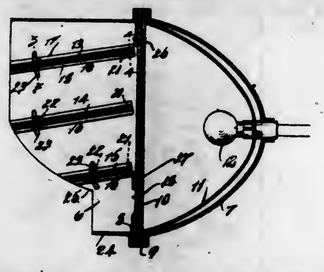
3. In a gear shift lever lock the combination with a passaged gear shift block support, of a gear shift lever having a longitudinal passage and slot therein, a key-operated lock on said lever, a latch bar within said passage connected with said lock, a locking bolt in said passage, a hooked member thereon engaging the lower end of said latch bar and projecting outwardly through said slot, said locking bolt adapted to be moved to engage in said passaged block support to hold said lever locked when said latch bar and key lock are operated, a projection on said lever, and resilient means attached thereto and to said hooked member for returning the locking bolt to normal position when said key lock is released.

4. In a device of the class described the combination with a gear shift lever having a slot and passages therein, a key lock mounted in said lever, a latch bar in one of said passages connected therewith, a hooked locking bolt in the other of said passages connected with said latch bar, and having the hooked portion thereof projecting through said slot, said locking bolt adapted to be projected into locking position by said latch bar when said key lock is operated, and a spring connected with said lever and said hooked locking bolt for returning said hooked locking bolt to a release position when said key lock is released.

1,350,811. LIGHT-DEFLECTOR FOR LAMPS. JAY D. JONES, New York, N. Y. Filed Nov. 8, 1919. Serial No. 336,714. 3 Claims. (Cl. 240—45.2.)

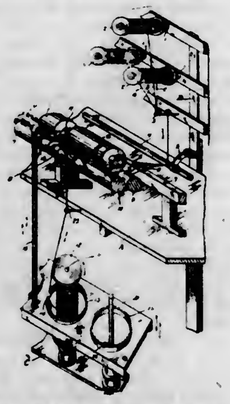
1. A device of the character described comprising, a hood fitted to be secured to a lamp in front of the lens, said hood being cut away at its lower sides and bottom,

and a plurality of dimming vanes mounted in the hood, one of them being located substantially centrally in the



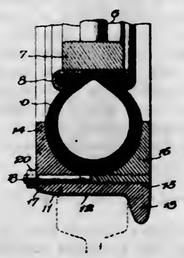
hood and another one near the bottom of the hood, the last named vane being shorter than the central one.

1,350,812. THREAD-TWISTING MACHINE. ALFRED E. JURY, Newark, N. J., assignor to Morgan & Wright, a Corporation of Michigan. Filed July 24, 1918. Serial No. 246,472. 5 Claims. (Cl. 28—34.)



5. In thread twisting machines, feed rolls having a plurality of threads, a twisting spindle for a receiving spool, a ring rail having reciprocatory movement relative to said spindle and rolls, a support for the threads at the point of twist and means for moving said support synchronously with the ring rail.

1,350,813. CONVERTIBLE WHEEL. ERNEST LISLE KEESLING, San Jose, Calif. Filed Feb. 28, 1919. Serial No. 279,740. 4 Claims. (Cl. 295—8.5.)



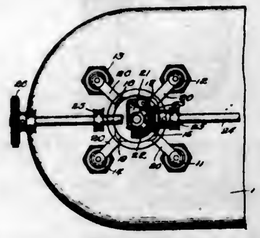
1. A convertible rim comprising a member having a tread portion with oppositely extending flanges, one being adapted to engage the rail and the other curved in cross-section to conform to and engage the side of a tire of a vehicle, and a plurality of separate curved clamping members adapted to engage the other side of the tire at spaced intervals with adjustable securing means whereby the tire may be clamped between said tire engaging flange and clamping members.

1,350,814. PROCESS OF MANUFACTURING LUBRICATING-OILS. HELMUT KLEVER, LUDWIG CARL LAUTENSCHLÄGER, and OSWALD HELMUTH GÖHRING, Karlsruhe, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Feb. 14, 1916. Serial No. 78,311. 11 Claims. (Cl. 87—9.)

1. The process of manufacturing lubricating oils from coal tar oils or distillates of coal tar pitch embodying chiefly bases and phenols, consisting in condensing and polymerizing the components of such substances by heat under pressure, and avoiding losses by evaporation during the heating of the substances.

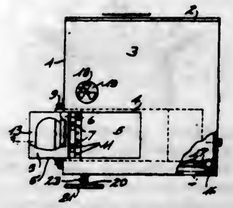
11. As a new article of manufacture, a lubricant consisting of condensed and polymerized bases and phenols and coal tar oils or distillates from coal tar pitch having high viscosity and being soluble in tar oils, benzol, xylol, and mineral oils.

1,350,815. IGNITION MECHANISM FOR INTERNAL-COMBUSTION ENGINES. CHARLES Y. KNIGHT, Pasadena, Calif., assignor to Knight American Patents Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 17, 1918. Serial No. 258,526. 10 Claims. (Cl. 123—143.)



6. The combination with a cylinder of an internal combustion engine, of a plurality of ignition plugs connected therewith for igniting the charge in said cylinder, a distributer for successively connecting said plugs with a source of electrical energy, said distributer being arranged to connect but one of said plugs with said source at one time, and mechanism controlled by the engine for operating said distributer in synchronism with the operation of said engine so that when one of said plugs operates to ignite the fuel in said cylinder at the proper time in the cycle of movement of said engine the other plugs connected with said cylinder will remain quiescent.

1,350,816. AUTOMATICALLY-CLOSING RECEPTACLE. CHARLES H. KORS, Poughkeepsie, N. Y. Filed June 13, 1917. Serial No. 174,428. 6 Claims. (Cl. 131—48.)



6. In a normally closed receptacle, the combination of a container having an opening in its front face, a closure

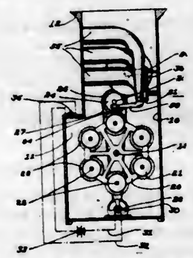
adapted to move laterally to cover and uncover said opening, and an outwardly extending guide on said closure adjacent to the forward edge of the closing portion thereof and adapted to be engaged by the hand of the user so as to move said closure to open position and to guide the hand of the user toward said opening and past said forward edge when said closure is so moved, said slide projecting beyond said guide only on the rear side thereof, a flexible connection fastened to said slide and extending across said opening when said slide is in open position, and spring take-up means mounted on said receptacle for winding up said flexible connection and tending to move said slide to closed position.

1,350,817. UTENSIL-COVER HOLDER. CHARLES H. KORS, Philadelphia, Pa. Filed Aug. 14, 1919. Serial No. 317,426. 3 Claims. (Cl. 53—8.)



1. In a device for operatively securing a utensil cover to the handle of the utensil, the combination of a lever having a long arm and an upwardly projecting short arm at approximately a right angle to one another, means at the fulcrum of said lever for securing it to the utensil handle at a point adjacent to the inner end of said handle, and means for connecting the free end of the long arm to the cover, said arms when the cover is in closed position being on the same side of a vertical plane passing through said handle at a point adjacent to its inner end and to said fulcrum.

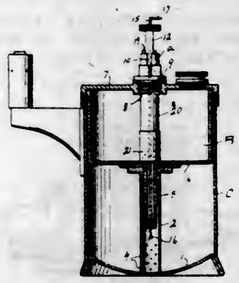
1,350,818. AUTOMATIC ORGAN. CYRILL KRALIČEK, Chicago, Ill. Filed Oct. 22, 1919. Serial No. 332,417. 3 Claims. (Cl. 274—18.)



1. In an orchestrion gramophone, the combination with a casing, a plurality of horns pivotally engaged in said casing, said horns opening outward, sound boxes pivotally engaged at the lower ends of said horns, a cylindrical record on which each of said sound boxes is adapted to rest, each of said records carrying the sound from a separate instrument of music, means for rotating said records and means for actuating said sound boxes, coincidentally therewith.

1,350,819. ACETYLENE-GAS LAMP. MARK LEONHARDY, Buena Vista, Colo. Filed Apr. 23, 1919. Serial No. 292,111. 1 Claim. (Cl. 48—4.)

A lamp of the class described comprising a carbid chamber, a reservoir imposed upon the chamber and provided with a discharge nozzle extending within the chamber, a sleeve extending through the reservoir and secured to the top thereof, said sleeve extending to the bottom of the reservoir and in communication with the discharge nozzle, the end portion of the sleeve adjacent the bottom of the reservoir being provided therearound with openings, a stem slidably disposed through the top of the reservoir and the sleeve within the reservoir, and a valve carried by the inner end portion of the stem for closing the flow



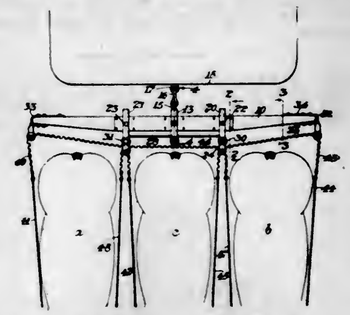
through the discharge nozzle, said valve snugly fitting within the sleeve and of a length to close the openings of the sleeve when the valve is in closed position with respect to the discharge nozzle.

1,350,820. ALKYL ETHER OF STARCHES AND SIMILAR CARBOHYDRATES AND METHOD OF PRODUCING THE SAME. LEON LILIENFELD, Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Feb. 16, 1914. Serial No. 818,974. 39 Claims. (Cl. 23—24.)

1. The process of producing an ether of a starch, which comprises reacting upon a starch with an ester of an inorganic acid and an alkyl group containing a plurality of carbon atoms, in the presence of a basic substance.

23. As new products, ethyl ethers of a starch in solid form.

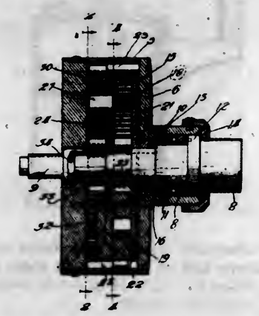
1,350,821. DRAFT-EQUALIZER. FRANK A. LYON, Milford, N. Y. Filed Oct. 22, 1919. Serial No. 332,482. 2 Claims. (Cl. 21—76.)



1. A draft equalizer for a three animal team, comprising a cross bar, a central U-shaped strap pivotally connected to the cross bar approximately centrally thereof, auxiliary U-shaped straps also pivotally connected to the cross bar in positions at both sides of the central U-shaped strap, means for connecting the central and auxiliary U-shaped straps so as to cause the same to move in unison relatively to each other and to the cross bar, a roller mounted between the parts of each of the auxiliary U-shaped straps, a bracket secured to each of the auxiliary U-shaped straps, a roller mounted between each bracket and the adjacent part of the corresponding U-shaped strap, a chain passing over a chain slide at one end of the cross bar and over the roller between the parts of the adjacent U-shaped strap, a chain passing over a chain slide at the other end of the cross bar and also over

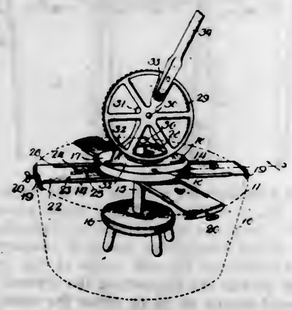
the roller between the parts of the other U-shaped strap, and a chain passing over the rollers between the said brackets and the adjacent parts of the U-shaped strap.

1,350,822. CHANGE-SPEED GEAR. ARCHIBALD MCNITT, Benton Harbor, Mich. Filed Oct. 23, 1919. Serial No. 332,600. 2 Claims. (Cl. 74—34.)



1. In a change speed device, the combination of a cylindrical chamber, a stationary annular gear on the inner cylindrical surface of the same, a closure for the back end of said casing, a removable closure for the front end of the casing, a bearing in the back closure, a slow speed shaft journaled in said bearing and projecting forwardly through the cylindrical portion of the casing, a disk secured to said shaft adjacent to the back closure, a plurality of pinions journaled on the front face of said disk and respectively engaging the annular gear on the casing, a disk journaled on the forwardly projecting portion of the slow speed shaft, a pinion connected to the back face of said disk and meshing with all of the pinions on the first mentioned disk, a plurality of pinions journaled on the front face of the second mentioned disk, all of said pinions meshing with the annular gear of the casing, a high speed shaft journaled in the removable head of the casing, the inner ends of the high and low speed shafts being journaled together, and a pinion on said high speed shaft meshing simultaneously with all of the pinions of the second mentioned plurality of pinions, substantially as described.

1,350,823. WASHING-MACHINE. LAWRENCE MAPLES, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,077. 4 Claims. (Cl. 259—134.)



1. An improved support for an agitating device to convert a tub or like vessel into a washing machine, comprising a frame having intersecting flexible arms adapted to engage over the rim of the vessel and to be confined thereon, and an axially disposed rigidifying element fitted over the intersection of said arms and attached to said arms for supporting an agitator shaft and the mechanism for actuating it.

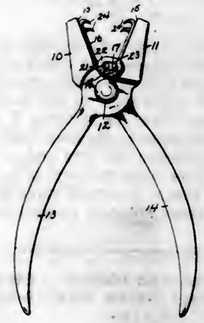
1,350,824. PROCESS FOR VULCANIZING RUBBER. ERWIN E. A. G. MEYER, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed Apr. 29, 1916. Serial No. 94,387. 5 Claims. (Cl. 18—53.)

1. In the process of vulcanization, the addition of a small quantity of a concentrated solution of a caustic alkali.

1,350,825. PROCESS OF MANUFACTURING DENSE WARE FROM BAUXITE. ALBERT F. MEYERHOFER, Mannheim, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Oct. 11, 1916. Serial No. 125,116. 7 Claims. (Cl. 18—47.5.)

1. The process of manufacturing dense, non-porous refractory bauxite wares, which comprises burning the bauxite, finely grinding the product, mixing therewith water to form a plastic mass, forming and burning the same.

1,350,826. BELT-STAPLING DEVICE. ALEXANDER MICHAL, West Orange, N. J. Filed Mar. 26, 1920. Serial No. 368,837. 1 Claim. (Cl. 1—50.)



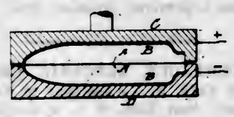
A belt stapling device comprising a pair of pivoted jaws, handles to operate said jaws, said jaws having curved recesses where they converge to receive the closed ends of the staples, lugs connected to said jaws and having slots concentric with the pivot of said jaws, and a strand supported in said slots and extending within said staples to position the same.

1,350,827. SHEET-METAL VEHICLE-WHEEL. THOMAS E. MURRAY, New York, N. Y. Filed June 15, 1918. Serial No. 240,117. 2 Claims. (Cl. 301—66.)



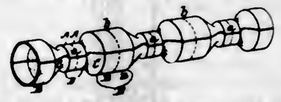
1. An integral sheet metal wheel felly formed of two struck up circular trough-shaped half sections placed with their edges in registry and electrically welded together at said edges to form an endless tube, each of said half sections being formed of a plurality of arc-shaped units electrically welded together at their ends.

1,350,828. HOLLOW PROJECTILE-SHELL OF SHEET METAL. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed July 15, 1918. Serial No. 244,935. 1 Claim. (Cl. 219—10.)



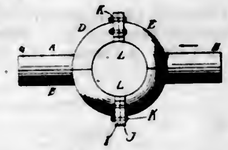
As a new article of manufacture and sale, an elongated hollow projectile shell of sheet metal formed integrally of two interchangeable longitudinally divided sections electrically united at their registering edges.

1,350,829. METHOD OF MAKING A PLURALITY OF LIKE TUBULAR OBJECTS. THOMAS E. MURRAY, New York, N. Y. Filed Jan. 15, 1919. Serial No. 271,326. 1 Claim. (Cl. 29—148.)



The method of making a plurality of like tubular objects, each having at one end a cylinder and at the opposite end a cylinder of greater diameter than said first-named cylinder and a tapered portion uniting said cylinders, which consists in producing from sheet metal a half longitudinal section of a structurally integral series of said objects having like semi-cylindrical ends united, electrically welding two of said half sections together at their registering edges, and transversely dividing said united semi-cylindrical ends to separate the units of said series.

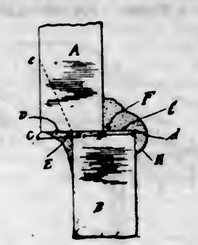
1,350,830. METHOD OF MAKING HOUSINGS FOR AUTOMOBILE TRANSMISSION-GEAR. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Oct. 8, 1919. Serial No. 329,353. 2 Claims. (Cl. 29—153.)



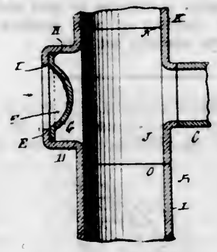
1. The method of making a housing of the type set forth, which consists in first forming of sheet metal two interchangeable longitudinal half sections of said housing of substantially the shape set forth; second, placing the edges of said sections in registry and electrically welding them together; third, transversely dividing said welded object at the middle of the enlarged portion thereof; fourth, bending outwardly the edges of said divided parts to form flanges, and fifth, placing said flanges in registry and uniting the same.

1,350,831. METHOD OF ELECTRIC WELDING. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Nov. 25, 1919. Serial No. 340,609. 1 Claim. (Cl. 29—148.)

The method of electrically welding thin metal parts in edge contact and disposed so that the contacting surface of one part overlaps the contacting surface of the other part, which consists in establishing the welding current through the joint to unite said parts and to produce an outflow of extruded metal to fill the angles due to said overlapping, and then removing the metal so extruded on one side of said parts, and beveling the portion of said part protruding beyond the opposite part; whereby the thickness of metal measured transversely across the joint is rendered equal to the normal thickness of said parts.

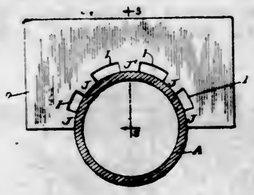


1,350,832. CLOSURE FOR OPENINGS IN BOILER-HEADERS. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Dec. 16, 1919. Serial No. 345,171. 2 Claims. (Cl. 220—24.)



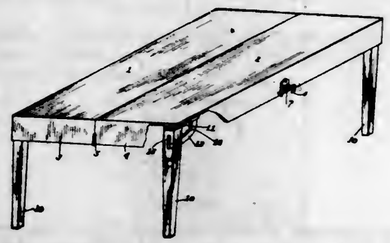
2. A tubular header for steam boilers having a lateral tubular projection with an inwardly turned flange on its outer edge, and a closure plate within said projection, the said plate having a concavo-convex central portion and an encircling flat rim, the said rim being electrically sealed to the inner surface of said flange.

1,350,833. PROCESS OF ELECTRICALLY WELDING TRANSVERSE PLATES TO TUBES. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Dec. 16, 1919. Serial No. 345,173. 1 Claim. (Cl. 219—10.)



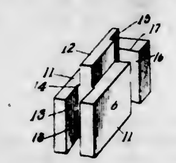
The method of electrically welding a metal plate transversely upon the circumferential periphery of a tube, which consists in, first, forming in an edge of said plate an arc-shaped recess of greater curvature radius than said tube having radial projections which make contact with said tube when said plate is applied thereto; second, placing said plate transversely upon said tube and establishing the welding current while pressing said plate against said tube until the projection having its radial direction most nearly approximating the direction of pressure becomes fused.

1,350,834. COMBINATION TRUNK AND TABLE. JAN NIERODKA, Detroit, Mich. Filed Oct. 29, 1919. Serial No. 334,234. 1 Claim. (Cl. 45—116.)



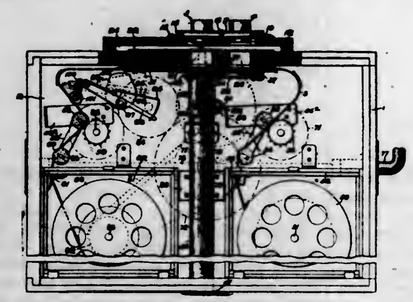
A supporting member for the slotted and hinged legs of bi-partite chests and tables comprising a quadrantal arm having two V-shaped notches and projecting through a transversal slot in the leg, curved concentrically to the axis of the leg hinges, a flat spring secured to one end of each leg, a bowed portion in said spring adapted to yieldingly engage in either of the V-shaped notches of said arm, said notches being so positioned that one is engaged by said spring when the legs are in operative position and the other is engaged by said spring when the legs are in their position of rest, substantially as described and for the purpose set forth.

1,350,835. INTERLOCKING-BLOCK WALL CONSTRUCTION. SAM PISCIOTTA, Kansas City, Mo. Filed Mar. 3, 1919. Serial No. 280,390. 3 Claims. (Cl. 72—38.)



1. A corner block for a wall, having a groove in one end and a groove in one side near the opposite end, and also having a central longitudinal groove in the lower face and an upwardly-projecting longitudinal rib at the upper side, said rib having a vertical recess registering with the said side groove.

1,350,836. METHOD OF AND APPARATUS FOR PRODUCING STEREOSCOPIC MOTION-PICTURE FILMS. HIPPOLYTE M. PRUD'HOMME, Boston, Mass., assignor to Lawrence F. Sherman, trustee, Boston, Mass. Filed May 7, 1917. Serial No. 167,058. 8 Claims. (Cl. 88—16.6.)



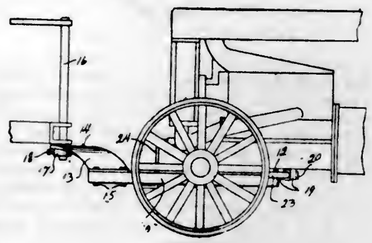
1. The method of producing stereoscopic motion pictures which consists in producing in rapid succession plural motion exposures of the same object side by side upon the same film, the exposures being effected in the same horizontal plane and from different angles, and successively shifting the position of the film relative to the line of exposure to superimpose the exposure from one angle upon a previous exposure from another angle.

1,350,837. PORTABLE ELECTRIC LIGHT. FRANK RAMPP, New York, N. Y., assignor to National Carbon Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 25, 1918. Serial No. 213,632. 11 Claims. (Cl. 240—8.5.)



1. A portable electric light comprising a battery-containing and lamp-carrying casing, and means for controlling the circuit of the battery through the lamp including a circuit-controlling slide mounted on the casing for sliding circuit-controlling movement and provided with a clip forming a hook projecting alongside of the slide and adapted to receive between itself and the slide a part of the apparel of the person carrying the light for thereby supporting the light, and in which the hook-forming clip is of less length than the slide and has a free rounded end disposed in proximity to the slide and beyond which the slide projects.

1,350,838. PUSHER ATTACHMENT FOR TRACTORS. PAUL A. RECORDS, Perryton, Tex. Filed June 21, 1920. Serial No. 390,450. 4 Claims. (Cl. 213—67.)



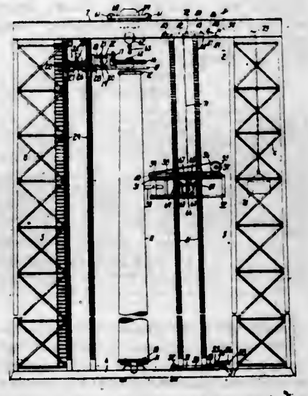
1. A pusher attachment for tractors embodying the usual front axle and body frame, comprising a pair of side members, a member connecting the rear ends of said side members embodying an upstanding foot provided with an opening, a lug extending downwardly from the tractor body and provided with an opening adapted to coact with the opening of said foot to receive an attaching means, U bolts carried by said arms and adapted to engage the front axle of the tractor, and a bridge member connecting the forward ends of said side members and provided centrally of the forward end thereof with an opening.

1,350,839. NON-SLIPPABLE SOLE. ARTHUR EDGCUMBE RENDLE, Philadelphia, Pa. Filed June 5, 1917, Serial No. 173,059. Renewed June 15, 1920. Serial No. 389,186. 3 Claims. (Cl. 36—59.)



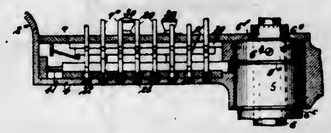
1. A non-slippable sole for a boot or shoe comprising an inner base strip overlying the shoe sole portion, an outer or wearing sole portion entirely overlying and secured to said inner base strip along the edges thereof, and a section of abrasive material set flush within said outer sole portion and of the same thickness thereof, substantially as set forth.

1,350,840. SPAR AND BOOM TURNING MACHINE. ARTHUR I. ROBBINS, Quincy, Mass. Filed Dec. 14, 1918. Serial No. 266,661. 6 Claims. (Cl. 742—1.)



1. A machine for turning booms, spars and the like having, in combination, means for holding and rotating a log in a vertical position, a pair of guide rods extending longitudinally of said log, a carrier frame slidably mounted upon said rods, a rotary cutter mounted upon said carrier frame and adapted to engage the periphery of said log and means to move said guide rods laterally thereof.

1,350,841. STEERING-WHEEL MOUNTING. LEE RIAL and WILLIAM HEBERN, San Francisco, Calif.; said Hebern assignor of one-fourth to E. J. McLaughlin and one-fourth to Joseph F. Sullivan, San Francisco, Calif. Original application filed Oct. 29, 1917, Serial No. 199,003. Divided and this application filed Jan. 29, 1919. Serial No. 273,902. 10 Claims. (Cl. 70—129.)



1. In combination with the steering column of a vehicle, of a collar fixed thereon and formed with a circumferential groove interrupted by a slot, a wheel journaled on the collar, a lock casing extending from the hub of the wheel and communicating with the groove and slot of the collar, a locking bolt slidably arranged in the casing and engageable in the slot and groove of the collar, a cover plate for the casing having an extension overlying the hub and collar and formed with an opening through which the steering column projects, and a cap inclosing the projecting steering column and having a base flange on which the cover plate extension rests for securing the cap in position.

1,350,842. COMPOUND FOR EXTERNAL APPLICATION. JAMES G. ROMAN, Wilmington, Del. Filed Aug. 12, 1918. Serial No. 249,496. 1 Claim. (Cl. 167—9.)

A compound for external use consisting of a boiled mixture comprising a major portion of turpentine, and a minor portion of whites of egg, salt, camphor and vinegar.

1,350,843. HAIR AND SCALP REMEDY. JAMES G. ROMAN, Wilmington, Del. Filed Aug. 12, 1918. Serial No. 249,497. 1 Claim. (Cl. 167—5.)

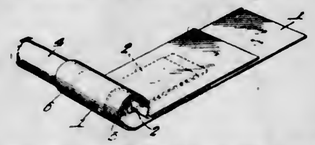
A hair and scalp remedy consisting of a boiled and strained mixture comprising a major portion of fine vinegar, and a minor portion of kerosene oil and castor oil with bay leaves, tobacco, rhubarb, salt, alum, and soap.

1,350,844. WEDGING-BLOCK FOR SHIPBUILDING. RUFO SANCHEZ, Newark, N. J. Filed Dec. 29, 1919. Serial No. 348,116. 3 Claims. (Cl. 61—66.)



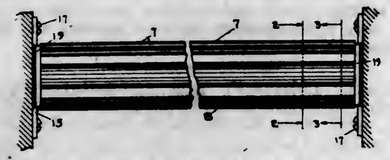
1. A wedging block of the character described comprising three sections, the lower section having its upper face inclined upward, then extended downward to form a shoulder and then inclined upward, the upper section having its under face inclined downward, then extended upward to form a shoulder, then inclined downward, the inclined face of the upper section being convergently related to the inclined face of the lower section, and an intermediate section having convergently related upper and lower faces, each face from the butt end of the section extending inward toward the other end of the section, then outward to form a shoulder, and then inward to the other end of the section, the shoulders on the upper and lower sections confronting the shoulders on the intermediate section, and transverse members disposed between the confronting shoulders of the intermediate section and upper section and of the intermediate section and lower section to thereby lock the sections from lateral movement with relation to each other, the removal of said transverse members permitting said movement of the sections.

1,350,845. PROCESS FOR MAKING TORPEDOES. JOSEPH SCARDONE, Vineland, N. J. Filed Jan. 22, 1920. Serial No. 353,250. 3 Claims. (Cl. 102—25.)



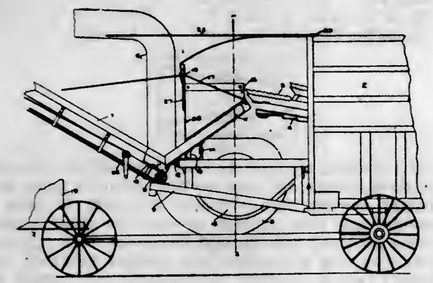
2. The process of wrapping a torpedo, consisting in placing a relatively narrow reinforcing strip on an outer wrapper of thin, absorbent but stout texture, said outer wrapper bearing a coloration area on its outer surface; folding the wrappers near their middle portion; rolling them into a tube of the desired size; folding one end of the outer wrapper to close the end of the tube; depositing the explosive charge in the tube; folding the other end of the outer wrapper to completely incase the explosive charge; dipping the completed torpedo shell in a flour paste; and drying the shell.

1,350,846. CURTAIN-SUPPORT. GEORGE H. SMITH, Providence, R. I., assignor to Charles D. Kenney, Cranston, R. I. Filed May 15, 1920. Serial No. 381,663. 5 Claims. (Cl. 156—19.)



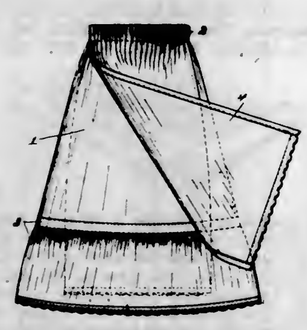
5. A bracket comprising a base, a flat arm integral with an edge of the base, marginal studs on the arm, and resilient inclined fingers integral with an intermediate portion of the arm.

1,350,847. ATTACHMENT FOR THRESHING-MACHINES. JOHN T. SMITH, Hopkins, Minn. Filed June 11, 1917, Serial No. 174,046. Renewed Feb. 2, 1920. Serial No. 355,586. 6 Claims. (Cl. 302—5.)



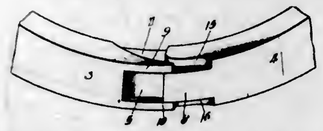
1. The combination, with a threshing machine having an opening in its wall and a straw support and a blower positioned to receive the chaff delivered through said support, of means interposed between said support and said opening and downwardly and outwardly inclined to divert the clean straw from said blower and discharge it through said opening, the chaff and fine material falling through said support into said blower.

1,350,848. UNDERSKIRT. AMY R. STARKWEATHER, Amsterdam, N. Y. Filed Nov. 19, 1919. Serial No. 339,133. 2 Claims. (Cl. 2—42.)



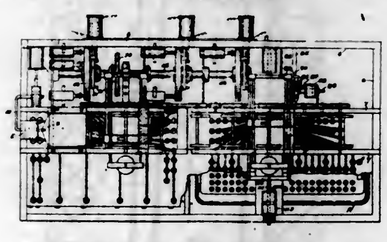
2. An underskirt having a body portion of diaphanous material, and a flap of relatively opaque material permeable to air, said flap being attached at its upper end only to the body of the garment.

1,350,849. PISTON-RING AND THE LIKE. ADOLF STERN, Chicago, Ill., assignor to F. W. Stewart Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 8, 1919. Serial No. 322,517. 2 Claims. (Cl. 74—109.)



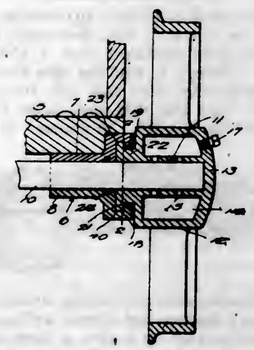
1. As a new article of manufacture, a piston ring comprising a split ring of suitable material having its end portions lying adjacent to each other and adapted to cooperate with each other in the sealing function, one of said end portions having an exteriorly facing longitudinal recess, and the other of said portions having an interiorly facing longitudinal recess, the side portions of the end portions being cut away adjacent to said recesses in complementary fashion, whereby a tongue is provided on each end portion adapted to seat into the recess of the other end portion, and whereby the sides of the recesses provide a seal with respect to the tongues, substantially as described.

1,350,850. AUTOMATIC PNEUMATIC CARD-TABULATING MACHINE. ARTHUR S. TREW, Portland, Oreg., assignor to Trew Tabulating Machine Company, a Corporation of Oregon. Filed June 21, 1918. Serial No. 241,139. 12 Claims. (Cl. 235—91.)



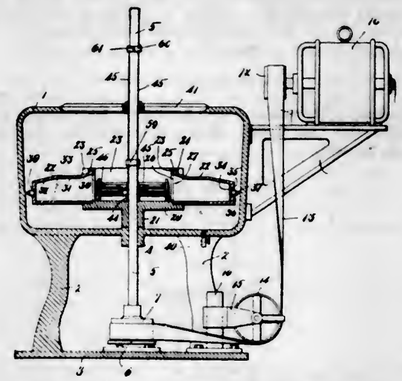
1. In a machine of the character referred to, in combination, card feeding means, automatic card stopping means, pneumatically operated card controlling means, adding mechanism, pneumatic, card-controlled, operating means for selectively operating said adding mechanism, and means for releasing and discharging said card from said machine.

1,350,851. WHEEL-HUB AND BEARING. JAMES ROY ADAMS, Somerset, Pa. Filed Apr. 30, 1919. Serial No. 293,784. 1 Claim. (Cl. 64—26.)



The combination with a split bearing having an annular interior bearing channel, and an axle journaled in the bearing, a traction wheel formed with a hollow hub and having an axle socket portion for receiving the outer end of the axle, and with an annular bearing rib rotatably engaging in the channel, the outer end of the hub being integral with the socket portion to close the latter and provide an abutment wall for the outer extremity of the axle.

1,350,852. PROCESS AND APPARATUS FOR HEEL MANUFACTURE. RICHARD S. AYRES, Brookline, Mass. Filed Oct. 6, 1917, Serial No. 195,047. Renewed May 22, 1920. Serial No. 383,546. 2 Claims. (Cl. 92—58.)



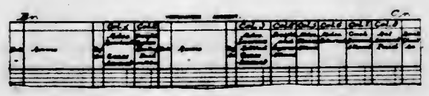
1. The improved process in the art of manufacturing boot and shoe heels from pulp material, which consists in applying a predetermined mass of pulp in a rotating receptacle, automatically separating said mass of pulp into a plurality of equal parts, simultaneously discharging each part into a plurality of heel molds arranged around the receptacle, and expressing the moisture therefrom, by centrifugal force, and finally, compressing each portion in its respective mold.

1,350,853. GAS-LIGHTING DEVICE AND METHOD OF MAKING THE SAME. GEORGE BLUMRICK, Gloucester, N. J., assignor to Welsbach Company, Gloucester, N. J., a Corporation of New Jersey. Filed Sept. 18, 1919. Serial No. 324,647. 8 Claims. (Cl. 67—98.)



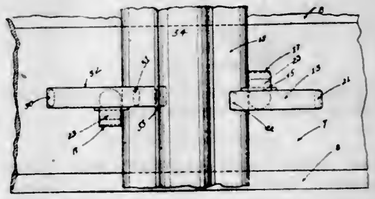
1. As a new article of manufacture, a tubular limp mantle for upright Bunsen burners, comprising a body portion folded to form reinforcing ribs, and having the upper end of said body portion stitched in folded condition, sections of said upper end being cut away to form a plurality of gas escape openings, substantially as described.

1,350,854. BUSINESS-RECORD AND INCOME-TAX BOOK. HARRY G. CARTER, Northfield, N. H. Filed Feb. 7, 1920. Serial No. 356,960½. 11 Claims. (Cl. 283—66.)



1. An account book comprising correlated groups of accounts, the accounts of one of the groups having appropriate headings for the entry of data for a short period of time, another of the groups comprising a recapitulation of the accounts of the first group, an income tax return form having indicia thereon denoting columns in the recapitulation from which the data for the income tax return are taken.

1,350,855. RAIL-CLAMPING DEVICE FOR METAL TIES. JOHN W. CHAMPION, Pueblo, Colo. Filed Feb. 25, 1919. Serial No. 279,086. 5 Claims. (Cl. 238—353.)



1. In combination, a rail, a metal tie engaged by the rail, the tie having an opening adjacent the rail, a rail-holding device having a shank occupying said opening and having a jaw extending inwardly beyond the shank and adapted to engage the tie from below, the device having a rail-base-engaging part above the shank and an opposing tie-engaging part also above the shank and extending outwardly beyond the shank and engaging the top of the tie, the opening in the tie occupied by the shank being elongated in a direction parallel with the rail, a key inserted in the opening and lying alongside the rail, and a keykeeper also inserted in the opening and lying alongside the rail and engaging the key to retain the same, said device having a bracing portion extending upwardly into engagement with the side portion of the ball of the rail.

1,350,856. EXPANSION-JOINT FOR ELECTRIC-CURRENT-COLLECTOR BARS. ELMER A. DAVIS, Harvey, Ill., assignor to Whiting Foundry Equipment Company, Harvey, Ill., a Corporation of Illinois. Filed Mar. 24, 1919. Serial No. 284,623. 2 Claims. (Cl. 191—22.)

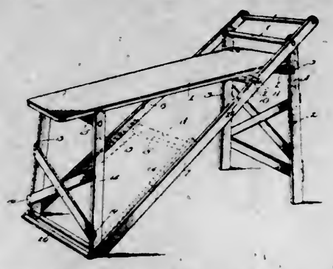


1. In mechanism of the class described, the combination of two alined adjacent bars, one of which has a flange extending from its face, a finger member overlapping both bars slidable along the face of the bar, which carries the flange, adjacent to said flange, means rigidly securing the finger member to the other bar, a second finger member overlapping both bars and lying immediately adjacent to the first mentioned finger member, means securing the second finger member to the bar on which the first finger member slides, and a cover plate carried by one of the bars embracing the portions of the two finger members adjacent thereto, secured to said bar by the same mechanism which secures the finger member which is attached to it.

1,350,857. FOLDING IRONING-BOARD. VICTOR M. DE CANO, Chicago, Ill., assignor of one-half to William H. Hinz, Oak Park, Ill., and one-half to Raymond F. Starr, Chicago, Ill. Filed Apr. 4, 1919. Serial No. 287,462. 4 Claims. (Cl. 68—12.)

1. In combination, two frame devices hinged together near one end of each, one of the frame devices being longer than the other, an ironing board hinged at one end to the shorter device, between said hinge connection

and the foot of said shorter device and having a part adapted to rest on the longer device and be held hori-

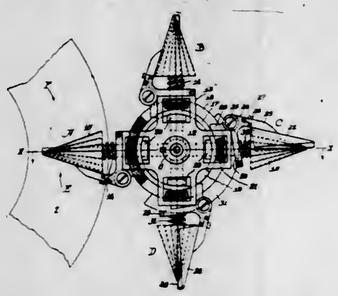


zontal when the frame devices are set on the floor with the shorter device in an upright position.

1,350,858. METHOD OF MAKING CARBON DISULFID. HERBERT H. DOW and CHARLES J. STROSACKER, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed July 15, 1918. Serial No. 245,094. 7 Claims. (Cl. 23—10.)

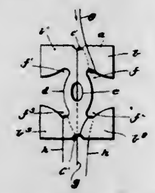
1. The method of making carbon disulfid which consists in bringing sulfur dioxid in contact with heated coke, and admixing sufficient oxygen with such dioxid to maintain such coke at the requisite temperature.

1,350,859. CONE-ROLLING MACHINE. ELZEAR JOSEPH DROUILLARD, Detroit, Mich. Filed Feb. 27, 1920. Serial No. 361,844. 12 Claims. (Cl. 107—58.)



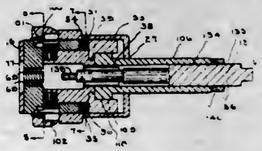
1. The combination of a batter baking means, a rotary mold adapted to remove baked batter from said means and impart a shape thereto, and means adapted to rotate said mold.

1,350,860. BALE-TIE. ALFRED J. ERSTED, Portland, Oreg. Filed Sept. 7, 1918. Serial No. 253,004. 3 Claims. (Cl. 24—18.)



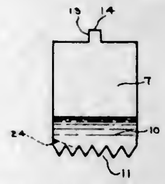
2. A bale tie consisting of a flat double ended T-shaped plate having centrally located triangular notches at the sides thereof, and a plurality of notches or recessed portions arranged centrally of said plate, the bases of said triangular notches being adjacent said centrally arranged recesses and at right angles thereto.

1,350,861. THREADING-TOOL. JOHN J. FLYNN, Providence, R. I. Filed Oct. 24, 1919. Serial No. 332,872. 8 Claims. (Cl. 10—96.)



1. In a threading tool, a shell provided with an opening, a head slidably mounted in the shell, a shank on the head extending through the opening, a chaser carrier slidably mounted in the shell and movable independently of the head, and chasers yieldingly mounted in the carrier.

1,350,862. CHASER. JOHN J. FLYNN, Providence, R. I. Filed Oct. 25, 1919. Serial No. 333,347. 1 Claim. (Cl. 10—96.)



In a chaser, a body provided with a series of teeth upon its lower end, and provided upon its upper end midway its end faces with a transversely disposed arcuate flange, and each side of the flange with an arcuate intermediate shoulder receding from the flange, and exterior each intermediate shoulder with an end shoulder disposed eccentrically to the flange and to the other shoulders.

1,350,863. SUSPENSORY. JOHN C. FOWLER, Syracuse, N. Y. Filed Dec. 7, 1915. Serial No. 65,609. 1 Claim. (Cl. 128—162.)



A suspensory comprising a hammock-shaped bag, a continuous stiffening tape applied to the edge thereof, means for holding the bottom of the bag in the form of an inward disposed ridge, a bracing tape secured intermediate of its ends to the continuous stiffening tape and extending across the bottom of the bag transversely of said ridge, the ends of said bracing tape extended beyond said stiffening tape to form supporting tapes.

1,350,864. INTERNAL-COMBUSTION ENGINE. SAMUEL B. GOLD, Independence, Mo., assignor to S. W. Livingston, Washington, D. C. Filed July 17, 1916. Serial No. 109,815. 1 Claim. (Cl. 123—122.)

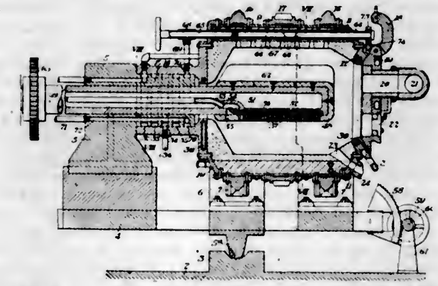
In an internal combustion engine the combination of a cylinder, a housing underlying and extending transversely

of the cylinder and provided at one end with a gas receiving and at the other end with a gas discharging opening, an exhaust gas pipe connecting the cylinder with the receiving opening of the housing and a discharge exhaust gas pipe connected with the other end of the housing; said housing having a front wall substantially straight and substantially in line with said openings and a back wall bowed rearwardly from and between said openings, the front wall having a portion projecting rearwardly into the housing to constrict the central portion of the passage



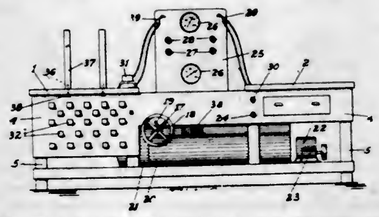
thereof and intercept the direct path of travel of the exhaust gases from the exhaust gas supply pipe and deflect them rearwardly through said constricted throat of the passage, said rearwardly projecting portion having a horizontal cylindrical opening extending from front to rear to give access to the valve chamber, a removable plug closing the last named opening, and forming a journal for the valve, and vaporizing fuel supply and discharge pipes communicating with said receiving and discharging openings.

1,350,865. METALLURGICAL FURNACE. DANIEL E. GRIFFITHS, Pittsburgh, Pa. Filed Oct. 21, 1918, Serial No. 259,061. Renewed Feb. 16, 1920. Serial No. 359,200. 25 Claims. (Cl. 263—33.)



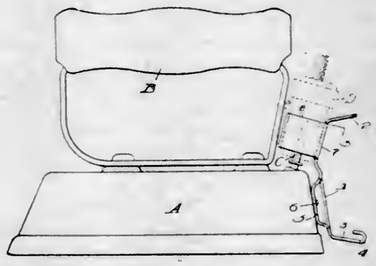
13. A rotary furnace arranged to receive the material to be treated, a relatively stationary burner within said furnace having downwardly extending fuel and air ports, means for delivering gaseous fuel and air to said ports, means to rotate said furnace, a blast pipe extending longitudinally in the wall of said furnace, means for supplying a blast of air to said pipe, there being a plurality of twyers communicating with said pipe, automatic means controlled by the rotation of the furnace for opening and closing communication between the twyer openings and said blast pipe, and means for cooling the walls of the furnace and the burner; substantially as described.

1,350,866. APPARATUS FOR RADIATOR-REPAIRING. GEORGE S. HALL, Chico, Calif. Filed May 22, 1919. Serial No. 298,980. 3 Claims. (Cl. 113—111.)



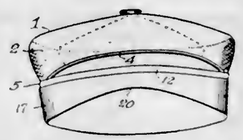
1. In a work bench arranged and equipped for the repair of radiators thereon, a plurality of independent horizontal bars slidably mounted in the side of the bench and arranged to be pulled out a predetermined distance, and removable uprights on the top of the bench projecting upwardly therefrom at the edge thereof adjacent the bars.

1,350,867. ELECTRIC FLATIRON. HENRY KOCOUREK, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 21, 1919. Serial No. 318,997. 6 Claims. (Cl. 219—25.)



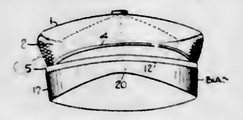
6. In combination with an electric flatiron, a rest member having off-set lugs by which it is attached to the body of the iron, said member being held otherwise out of contact with said body and said lugs being of relatively small cross-section at their junctions with the rest member, said member having its own cross section materially reduced adjacent said junctions by an aperture extending partially across its width to retard conduction of heat to and within the rest member.

1,350,868. METHOD OF MANUFACTURING CAPS. CHARLES KORNFELD, New York, N. Y. Filed Mar. 13, 1919. Serial No. 282,391. 6 Claims. (Cl. 2—106.)



1. The method of making a cap which comprises folding a protector strip back upon itself, inserting the edges thereof between the two plies of a hinge and sewing the four edges together, inserting the top edges of the two plies of hinge material between the cap body and lining and sewing the four edges together, and securing the lining within the cap body.

1,350,869. CAP. CHARLES KORNFELD, New York, N. Y. Original application filed Mar. 13, 1919, Serial No. 282,391. Divided and this application filed Feb. 28, 1920. Serial No. 362,061. 2 Claims. (Cl. 2—106.)

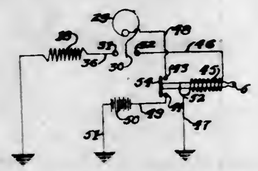


1. A cap comprising in combination a cap body, a double-ply hinge band attached thereto by a hidden seam, the lower edges of the hinge being turned in, and a bias cut head protector formed by the folded fabric with a closed flap at the bottom and having both top edges of the folds thereof sewed to the turned-in bottom edges of the hinge band so that the seam is hidden within the plies of the hinge band.

1,350,870. PROCESS OF STERILIZING AND PACKAGING CHEESE. JAMES L. KRAFT, Chicago, Ill. Filed Oct. 18, 1919. Serial No. 331,632. 4 Claims. (Cl. 99—15.)

4. The process of putting up cheese of the Cheddar genus, which consists in melting the cheese, actively stirring the cheese during melting and while melted and maintained at a temperature between 120° F. and 150° F. until brought to a stably-homogenized condition, then placing it in suitable sealed containers and subjecting it to a temperature in excess of 160° F. maintained for a period of not less than fifteen minutes.

1,350,871. THERMOSTATIC CONTROL MECHANISM FOR HYDROCARBON-ENGINES. LEWIS H. LAMONT, Chicago, Ill. Filed Nov. 30, 1917. Serial No. 204,544. 8 Claims. (Cl. 123—122.)



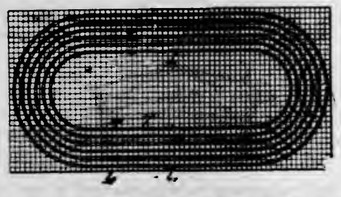
4. In a heating system for the fuel of a hydrocarbon engine, means for heating the fuel, a thermostatic element controlling the supply of energy to said means, a switch adapated to control supply of energy to said means, and mechanism controlled by the thermostat for opening said switch subsequent to the cutting off of supply of energy to said means by said thermostat.

1,350,872. METAL ROAD-TRACK. CHARLES J. LINDEN, Iron Mountain, Mich. Filed May 24, 1920. Serial No. 383,816. 7 Claims. (Cl. 238—4.)



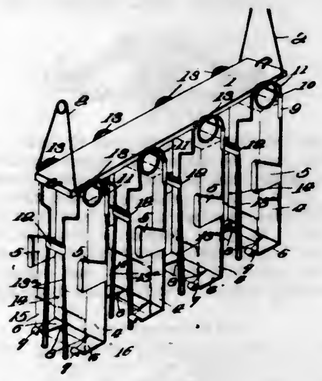
1. Track rails and supports therefor formed out of sheet metal bent upon itself to form a supporting flange or web and tread portions bent out from said flange or web, and sheet metal spacers and supports for said rail having their ends bent upwardly and secured to said flange or web.

1,350,873. AMUSEMENT DEVICE. CARL LOMBARDO, Dunkirk, N. Y., assignor of one-third to Joseph Familet, Dunkirk, N. Y. Filed Apr. 24, 1920. Serial No. 376,288. 3 Claims. (Cl. 104—60.)



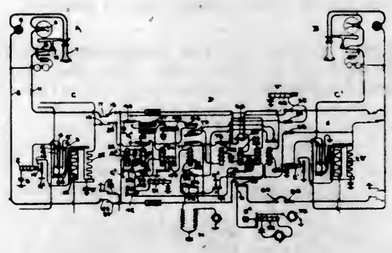
1. An amusement apparatus having a base or platform provided with continuous parallel track rails, and intervening continuous seats for electrical conductors, said track rails being adapted for progressive traverse by cars or carriers, the base or platform consisting of a plurality of detachable sections or members of substantially uniform dimensions respectively provided with sections or members of said track rails and conductor seats, and means for securing said sections or members in their prescribed relative positions.

1,350,874. BAG AND TWINE HOLDER. EINAR LORANGE, Luverne, Minn. Filed July 20, 1917. Serial No. 181,805. 1 Claim. (Cl. 211—2.)



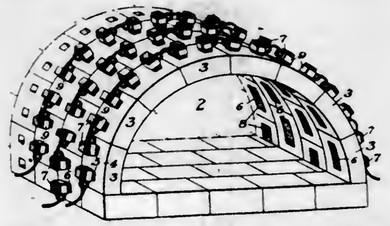
A bag and twine-holder comprising a plate or rack adapted to be suspended in position, a plurality of holders pivotally attached to the supporting plate or rack transversely thereof and in longitudinal alinement, each of which comprises a back provided with guides consisting of forwardly-extending side plates bent inwardly at their outer ends, and a forwardly-extending bottom rest bent upwardly at its outer ends, between which side plates and rest the bags to be held are supported, the inwardly-projecting ends of the side members and the upwardly-projecting ends of the bottom members adapted to confine the bags within the guides when one is being removed therefrom, and retaining members for holding the bags in place comprising a single piece of wire bent into shape, the upper ends of these retaining members in the form of convolutions secured to the back, and resilient retaining means provided with longitudinal openings through which the operator may seize the bottom fold of the bag for removing the latter.

1,350,875. MEASURED-SERVICE TELEPHONE SYSTEM. TALBOT G. MARTIN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 24, 1917. Serial No. 208,579. 26 Claims. (Cl. 179—9.)



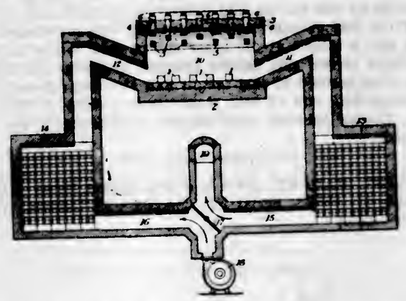
26. In a telephone system, a subscriber's line, means for making said line busy, a meter for said line, means for operating said meter when said line is called while busy.

1,350,876. ELECTRIC FURNACE. WALTER S. MAYER and WALTER C. KENNEDY, New Brighton, Pa. Filed Dec. 15, 1916. Serial No. 137,100. 15 Claims. (Cl. 219—35.)



1. An electric resistance furnace having a wall including a plurality of resistance units, each comprising a block of refractory material and a resistance element assembled therewith to form a part of said unit, substantially as described.

1,350,877. METHOD OF OXIDIZING MATERIALS IN ELECTRIC FURNACES. WALTER S. MAYER and WALTER C. KENNEDY, New Brighton, Pa. Filed Mar. 17, 1917. Serial No. 155,383. 7 Claims. (Cl. 204—64.)



1. The method of scaling steel billets to remove surface imperfections which consists in heating the billets in an electric furnace to a scaling temperature while supplying to the furnace chamber sufficient oxygen to form the scale on the billets, substantially as described.

2. The method of surface oxidizing metal for the purposes described, which consists in heating the metal in an electric furnace while maintaining an oxidizing atmosphere in the furnace chamber; substantially as described.

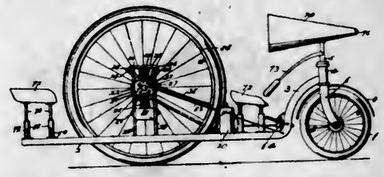
3. The method of surface oxidizing metal to remove surface imperfections, which consists in electrically heating the metal to a temperature sufficient to scale its surface and supplying a regulated amount of oxygen to the heated metal sufficient to form the surface scale, substantially as described.

4. The method of treating materials for the purposes described, which consists in electrically heating the materials and supplying a regulated predetermined amount of oxygen to the heated materials; substantially as described.

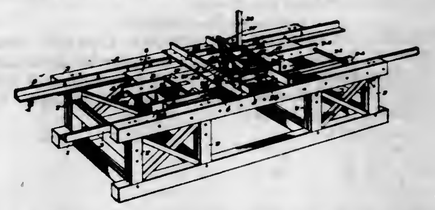
5. The method of treating materials for the purposes described, which consists in heating the materials in an electric furnace, while maintaining an oxidizing atmosphere in the furnace chamber; substantially as described.

1,350,878. MOTORCYCLE. GEORGE W. MOULDIN, Danville, Ill. Filed Mar. 22, 1918. Serial No. 224,025. 1 Claim. (Cl. 208—101.)

In a motor vehicle, a frame, upstanding supports carried on opposite sides of the frame, each support embodying a pair of spaced standards formed with longitudinal slots therein, a cross-bar spanning the standards at their upper ends and connecting with the same, a bearing positioned between the two standards of each pair and provided with end projecting lugs entering and having a sliding engagement in said slots, blocks mounted between the standards comprising each pair, each block being provided with end trunnions entering the slots of its respective standards and having threaded extremities projecting beyond the standards, nuts engageable on said threaded extremities and bearing against the outer faces of the standards, whereby the blocks may be adjusted and away from the cross-bars.

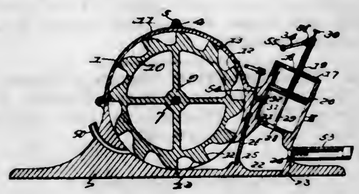


1,350,879. SHINGLE-CUTTING MACHINE. ANDRO NYLUND, Juneau, Alaska. Filed Dec. 11, 1917. Serial No. 206,665. 3 Claims. (Cl. 144—162.)



1. A shingle cutting machine comprising a main frame, a reciprocating carriage mounted thereon, a double-edged planing-knife carried thereby, slanting planer beds arranged on either side of said double-edged planing knife, a rigid frame arranged transversely of said reciprocating carriage, a vertically movable frame pivoted to said rigid frame, rotatable gripping-dogs journaled in said vertically movable frame whereby the block is positioned upon said slanting beds, and gripping-bars carried by said rigid frame adapted to engage the ends of said shingle-block, whereby the latter is held in the position assumed when placed upon the slanting beds.

1,350,880. ROTARY GAS-ENGINE. HARRY E. OSBORNE, Spokane, Wash. Filed Dec. 21, 1918. Serial No. 267,795. 4 Claims. (Cl. 60—41.)



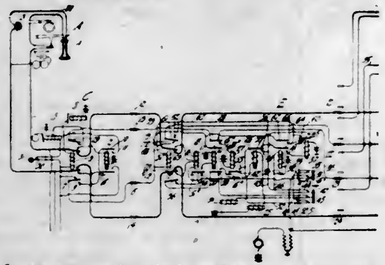
1. In an internal combustion engine, a stator, a rotor revolubly mounted in the stator, the stator being formed with a combustion chamber and being further formed with a cylinder in communication with the combustion chamber, a piston movable in the cylinder, means operatively connecting the piston with the rotor, and means carried by the piston for closing communication between the cylinder and the combustion chamber for the useful purpose specified.

1,350,881. THREAD HOLDING AND CUTTING ATTACHMENT FOR SPOOLS. LOUISE M. PFUNDER, Portland, Oreg. Filed Nov. 6, 1919. Serial No. 336,223. 2 Claims. (Cl. 30—14.)



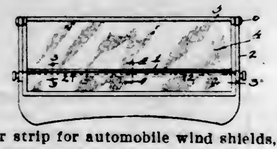
1. A thread holder and cutter attachment for spools made of a thin flat plate of resilient metal, consisting of an annular main part having a central opening corresponding in size with the hole of the spool, said annular main part being provided with pegs for fastening on the head of the spool, and having integral opposite arms extending to the rim of the spool head and adapted to bear on the latter, thereby assuring that one or the other of said arms will bear on the spool head and hold the thread end notwithstanding said attachment is not affixed in parallel relation to the spool head, the edges of said arms serving as means for cutting the thread.

1,350,882. AUTOMATIC TELEPHONE SYSTEM. WINFRED T. POWELL, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 14, 1917. Serial No. 161,958. 11 Claims. (Cl. 179—18.)



1. In an automatic telephone system, subscribers' lines, selector switches accessible to said subscribers' lines, trunks accessible to said selector, means whereby one of said subscribers may operate said selector to extend a connection from his line to any one of said trunks, means whereby another one of said subscribers is prevented from operating said selector to extend connection to a portion of said trunks while not precluded from access to others, a measured service device for said other subscriber, a circuit for said measured service device, and a circuit for controlling said means, both of said circuits extending over a common conductor.

1,350,883. WEATHER-STRIP. GEORGE C. REEVES, Chicago, Ill., assignor to Dryden Rubber Company, a Corporation of Illinois. Filed Mar. 28, 1919. Serial No. 285,721. 1 Claim. (Cl. 296—93.)



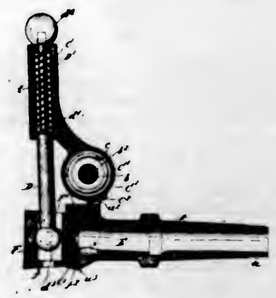
A weather strip for automobile wind shields, comprising a Z-shaped strip of impervious resilient material, and a spring clip permanently attached thereto, said strip and clip adapted detachably to engage the opposite edges of one portion of the wind shield.

1,350,884. RAZOR-SHARPENER. FELIX ROGOWSKI, Chicago, Ill. Filed Jan. 13, 1919. Serial No. 270,867. 2 Claims. (Cl. 51—16.)



1. A razor sharpener, comprising a stone having beveled edges; a sheet metal holder having upwardly turned side flanges fitting the beveled side edges of said stone; a rebent lip at one end of said holder forming a flange abutting the end of said stone; mounting means secured to said lip; a tongue at the other end of said holder having inwardly turned side flanges adapted to engage the sides of a strop secured to said tongue and abutting against the corresponding end of said stone; and a strop riveted to said tongue between said flanges, substantially as described.

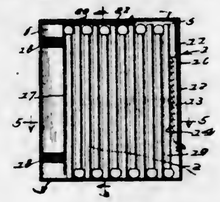
1,350,885. FAUCET. LEVI L. ROWE, Boston, Mass. Filed Sept. 21, 1918. Serial No. 255,153. 13 Claims. (Cl. 251—134.)



8. In a faucet, a stationary tubular member, a tubular valve adapted to slide longitudinally in said member, said valve having a socket in the outer end thereof, a handle pivotally mounted on said stationary member and comprising a rod one end of which is located in said socket, said rod being adapted to be withdrawn from said socket without disassembling to allow said valve to be removed from said stationary member, and means normally to hold said rod in said socket.

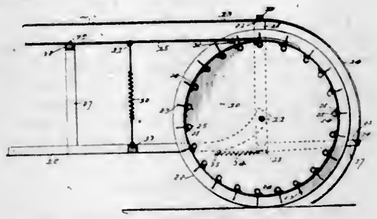
13. The faucet above described comprising a stationary tubular member connectible to a tank and a slidable tubular valve located therein, the said valve being closed at both ends and open along its sides and extending when in closed position into such tank whereby the chamber within it may be filled when said valve is closed and when said valve is open the connection between its chamber and such tank may be closed whereby said valve at each sliding opening motion will deliver only a predetermined quantity of liquid, and means for operating said valve.

1,350,886. SINGLE-DELIVERY MATCH-BOX. FRANK JOSEPH SCHOLZ, Helena, Mont., assignor of one-half to Raymond Wendel Scholz, Helena, Mont. Filed Feb. 14, 1918. Serial No. 217,118. 1 Claim. (Cl. 206—27.)



A match box comprising a rectangular body the top of which is provided with an exit opening and with a rectangular opening, the front wall being provided with a rectangular opening, a swingingly mounted door serving as one side wall of the body, so that matches in bulk may be placed therein, a latch carried by the door for holding the same in closed position, a follower plate carried within the body, springs compressed between the follower plate and the rear wall of the body, the follower plate bearing upon matches placed in the body and forcing them toward the forward end where the foremost match is in position to be ejected through the exit opening in the top of the body, flanged guides formed on the inner surface of the front wall adjacent the rectangular opening therein, an ejecting plate mounted in the flanged guides and comprising a plate-like body, a serrated match engaging bar and a finger piece which projects through the said rectangular opening, whereby the raising of the ejecting plate may effect the ejection of a match through the exit opening, and a slide closing the rectangular opening in the top for the purpose specified.

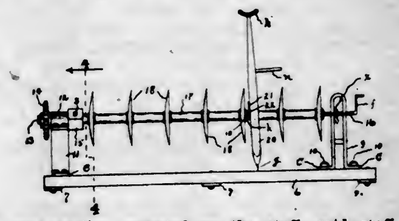
1,350,887. HAY-LOADER. ELVIN T. SEATON, Danbury, Iowa. Filed Oct. 21, 1919. Serial No. 332,260. 5 Claims. (Cl. 56—359.)



1. A hay loader having a cylindrical drum, a fork arranged with its fingers in concentric relation with the wall of the drum, rearwardly yielding teeth carried by the drum, stripper arms terminally arranged in position to engage the hay or other material carried by the drum, and a trip member arranged in the path of said teeth for successively repressing the latter to withdraw them from engagement with said material.

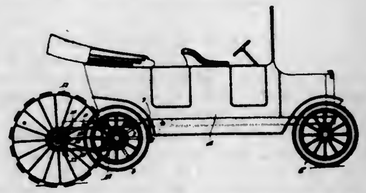
1,350,888. DISK-SHARPENING DEVICE. HENRY C. SIMONS, Odebolt, Iowa. Filed May 10, 1919. Serial No. 296,271. 2 Claims. (Cl. 76—85.)

1. In an apparatus for sharpening the disks of a disk-holding shaft, a pair of elongated supports connected side by side to form a channel therebetween, each support being provided with a flange disposed to overlie a part of said channel, a standard stationary with the supports, a revoluble stub-shaft having bearings on the stationary standard and provided with a clamping-member for supporting one end of the disk-holding shaft, a second standard substantially of inverted U-shaped having foot-members engaging said flanges and provided with a centering-element, means on the foot-members of the second standard adapted to engage said flanges for adjusting said second standard longitudinally of the supports for engagement of said centering element with the opposite end of the disk-holding shaft, a staff, and a cutting-blade triangular



in cross-section mounted on the staff, said staff being adapted to be disposed in engagement with one of the supports with its cutting-blade engaging a disk of said disk-holding shaft.

1,350,889. AUTOMOBILE TRACTOR. LEONARD S. SZUMKOWSKI, Chicago, Ill., assignor to Ursus Motor Company, Chicago, Ill. Filed Dec. 17, 1917. Serial No. 207,505. 4 Claims. (Cl. 180—16.)



1. The combination of a motor-driven vehicle having driving wheels at one end; supplemental tractor wheels detachably connected with the vehicle, said tractor wheels, when applied, being adapted to elevate said driving wheels to a position out of contact with the ground, the connection of said tractor wheels with said vehicle comprising two bars detachably connected with and projecting rearwardly from said vehicle; a longitudinally adjustable axle carrying said tractor wheels; and means for operatively connecting said tractor wheels with said driving wheels, substantially as described.

1,350,890. BOTTLE-TAG. WILLIAM J. TANZEY, Detroit, Mich., assignor, by mesne assignments, to Frederick C. Mathews Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 25, 1918. Serial No. 230,686. 4 Claims. (Cl. 40—4.)



1. As a means for presenting indicia, a flat sheet-like tag of paper board or the like and having the body portion adapted to carry indicia, and an end aperture adapted

to embrace the neck of a container, said body portion having dimensions greater than those of the apertured end portions sufficient to cause the tag to extend away from the container a distance such as to prevent location of a plurality of containers in immediate proximity, the position of the tag on the container retaining the latter exposed to disclose its contents, whereby free visual inspection of contents is permitted in the presence of the tag and removal will be practically required in placing the container in use.

1,350,891. ALLOY. VICTOR PEREZ TAYLOR, New York, N. Y. Filed Aug. 4, 1919. Serial No. 315,174. 9 Claims. (Cl. 75—1.)

1. An alloy containing aluminum 80 to 100 parts, copper 8 to 17 parts, and tungsten.

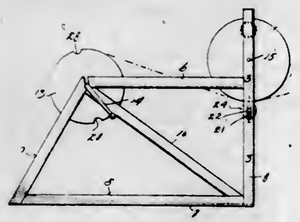
1,350,892. ZINC ALLOY. ARRIGO TEDESCO, Turin, Italy, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy, a Company of Italy. Filed July 11, 1919. Serial No. 310,257. 1 Claim. (Cl. 75—1.)

A high-strength zinc alloy, containing between 85 and 93% of zinc, between 3 and 12% of aluminum, and between 0.5 and 4% of tin.

1,350,893. METHOD FOR MANUFACTURING ALUMINIUM ALLOYS. ARRIGO TEDESCO, Turin, Italy, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy, a Company of Italy. Filed July 11, 1919. Serial No. 310,263. 2 Claims. (Cl. 75—1.)

1. A method of producing a zinc-copper-aluminum alloy containing a high percentage of aluminum, consisting in preparing, separately from the aluminum bath, an addition alloy comprising about 66% of zinc, 9% of copper and 25% of aluminum; and thereafter associating such alloy, in proportion up to 30% of the final alloy, with the aluminum bath.

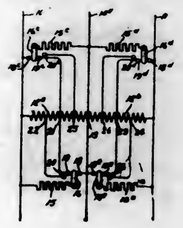
1,350,894. ROPE-MEASURING DEVICE. FRANK THIEL, Remsen, Iowa. Filed Sept. 12, 1916, Serial No. 119,702. Renewed Mar. 18, 1920. Serial No. 367,002. 1 Claim. (Cl. 33—129.)



The combination with a support having spaced vertical uprights and horizontal bars leading therefrom, the horizontal bars being provided with notches, of a reel having a shaft detachably journaled in said notches, a pulley journaled in the uprights on a horizontal axis and having a peripheral groove for frictionally receiving a rope when fed from the reel, a roller having resiliently supported bearings in the uprights and contacting with the periphery of the pulley, and registering means mounted upon one of the uprights and actuated by the pulley.

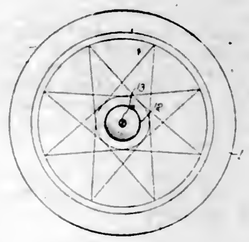
1,350,895. HEATING DEVICE AND CONTROL THEREFOR. STUART THOMSON, Washington, D. C., assignor to General Electric Company, a Corporation of New York. Filed Feb. 26, 1918. Serial No. 219,297. 3 Claims. (Cl. 171—97.)

1. In combination, a supply circuit, an auto-transformer connected thereto, a plurality of sets of heating units connected to different sections of said auto-transformer, means for varying the energy supplied to a given unit, each set comprising two groups of units which



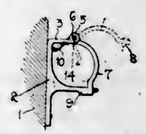
are connected to different parts of the given section when the unit is connected for less than its full energy supply.

1,350,896. DEVICE FOR HOLDING EXTRA WHEELS ON BODIES OF AUTOMOBILES. CHARLES M. TRAMMELL, Lakeland, Fla., assignor of one-half to Edward A. Henske, Washington, D. C. Filed Oct. 25, 1919. Serial No. 333,283. 5 Claims. (Cl. 70—14.)



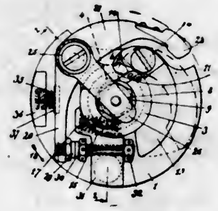
1. A device for locking extra wheels upon bodies of automobiles consisting of a socket member, with flanges formed within the socket with ratchet teeth in the edges of said flanges, a plug adapted to engage said socket and having lugs coöperating with the flanges to retain the plug, and means for preventing the plug from turning when in a locked position.

1,350,897. DEVICE FOR HOLDING TIRES UPON AUTOMOBILES. CHARLES M. TRAMMELL, Lakeland, Fla., assignor of one-half to Edward A. Henske, Washington, D. C. Filed Oct. 25, 1919. Serial No. 333,284. 1 Claim. (Cl. 224—29.)



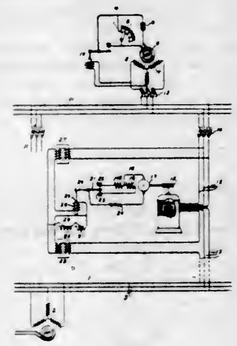
In a device for holding tires upon automobiles, the combination of a bracket securable to an automobile and having a U-shaped portion, a tire retaining element comprising a longer and an angled shorter arm, said element being pivoted to one of the ends of said U-shaped portion and automatically operable co-acting, positive locking means carried by said longer arm and said end of the U-shaped portion for positively locking said longer arm to said end of the U-shaped portion, when said longer arm is moved against said U-shaped bracket end.

1,350,898. CIRCUIT-BREAKING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. JEAN EDOUARD TUSCHER, Neuchâtel, Switzerland. Filed May 20, 1920. Serial No. 383,010. 5 Claims. (Cl. 200—31.)



1. A circuit breaking mechanism for internal combustion engines comprising a disk, a contact carried by said disk, a two-armed lever fulcrumed on said disk, a contact carried by one arm of said lever for engaging the first mentioned contact, yieldable means carried by said disk and bearing against said arm of the lever for holding the contacts normally engaged, a striker carried by the other arm of said lever adapted to move the contacts apart, a hub for said disk having a cam portion lying in the same plane with said lever, a weighted arm pivoted on said disk in the same plane with said lever and having a nose adapted to coöperate with the cam portion of said hub whereby to shift the disk when the weighted arm swings outwardly under the influence of centrifugal force, and means to yieldably hold the hub and disk in an initial position against the action of said nose on said cam, substantially as described.

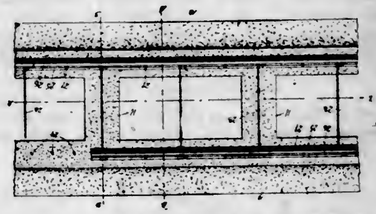
1,350,899. ELECTRICAL SYSTEM OF POWER TRANSMISSION. MAGNUS UNGER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 15, 1918. Serial No. 262,741. 6 Claims. (Cl. 171—119.)



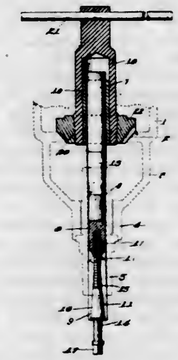
1. The combination with a plurality of sources of alternating current, of a distribution circuit supplied thereby, voltage modifying means interposed between one of said sources and said circuit, and power factor responsive means for regulating said voltage modifying means to control the power factor of the load imposed upon one of said sources.

1,350,900. RAILROAD-BED AND RAIL-SUPPORT. GEORGE S. USHER, Waco, Tex. Filed May 1, 1920. Serial No. 378,084. 2 Claims. (Cl. 238—7.)

1. A railway road bed comprising spaced rail supporting bodies of concrete material connected at intervals by bonding sections of concrete material, metal studs embedded at spaced intervals in the bodies and extending above the upper surfaces of the same, and rail supporting stringers supported upon the bodies and having sockets to receive the projecting portions of the studs.

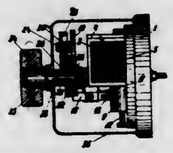


1,350,901. TOOL FOR REFACING VALVE-SEATS. LESTER R. VAN VOLKENBURG, Peoria, Ill., assignor to Avery Company, Peoria, Ill., a Corporation of Illinois. Filed July 10, 1918. Serial No. 244,247. 5 Claims. (Cl. 90—12.5.)



1. A tool for grinding a valve seat located in the metal of a cylinder head and rigidly alined with a smooth surfaced valve stem support, having in combination a rod, smooth surfaced from end to end, and adapted to be passed loosely through the valve seat from the engine side thereof and through a remote valve stem support, means co-acting with the smooth valve stem support for holding the rod rigidly longitudinally and laterally therein, with its journaled portion positioned in the transverse planes of the valve seat, and a rotary tool carrier loosely fitted to the rod and adapted to slip longitudinally thereon when in operation.

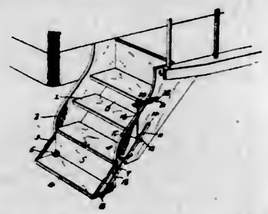
1,350,902. ELECTROMAGNETIC OVERLOAD CUT-OUT MAGNET. PIETER GERRIT VAN WIJK, Geldermalsen, Netherlands. Filed June 13, 1918. Serial No. 239,843. 3 Claims. (Cl. 200—89.)



1. In an electromagnetic overload cut-out or switch of the type having a solenoid adapted to be energized by the current, and a switch releasing armature operative by the solenoid, the combination of a pair of members relatively rotatable about a common axis, a circuit closing lever movably mounted on one of said members, the

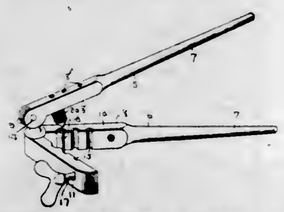
other member having a notch or recess with which a part of said lever coöperates, and a detent controlled by the armature of the solenoid and normally restraining one of said members from rotation relatively to the other member, relative rotation between the members acting to actuate said lever to control the circuit through the switch.

1,350,903. FOLDING CAR-STEP. WILLIAM R. WALLINGSFORD, Tinsman, Ark. Filed Dec. 10, 1918. Serial No. 266,077. 1 Claim. (Cl. 105—448.)



A folding car step structure comprising the combination with the lower fixed tread and the side supports of car steps, of a rock shaft journaled transversely of the lower ends of said side supports, a folding riser rigidly secured at its upper edge to said rock shaft, a folding tread hingedly connected with the lower edge of said riser, toggle suspension links at each side of the steps and connecting said folding tread and rock shaft, an upwardly inclined lever pivotally connected at its lower end with said tread a second lever pivotally connected at one end with one of said side supports and having an upwardly breaking knee joint connection with the upper end of the first named lever, an upwardly extending operating rod pivotally connected with the upper end of said first named lever and having its upper end provided with an extension and a handle, and a combined guide and keeper having a stop shoulder beneath which the extension on said rod is adapted to engage to lock the folding step structure in its position of use, said rod being movable upwardly whereby to break said knee joint.

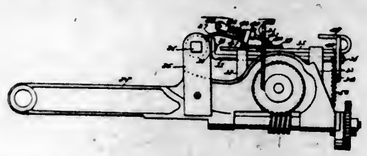
1,350,904. PIPE-FLANGING TOOL. JOHN F. WALTERS, Battle Creek, Mich. Filed Oct. 17, 1919. Serial No. 331,280. 5 Claims. (Cl. 153—79.)



5. The combination with a tube clamp, of a swinging member movable toward and away from the tube when engaged in the clamp, and a flanging element mounted for self-adjustment in said movable member and detachable therefrom.

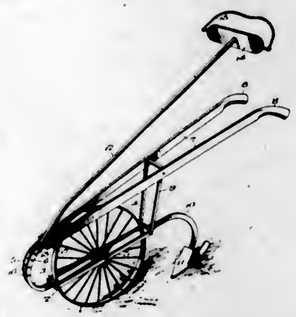
1,350,905. SPINNING APPARATUS. EDWARD AUSTIN WATSON, Greenville, S. C. Filed Dec. 11, 1919. Serial No. 344,042. 5 Claims. (Cl. 242—43.6.)

1. In a traverse controlling mechanism for spinning machines, the combination with a builder cam and a builder arm, a traverse controlling cam auxiliary to the builder cam and carried thereby, a rotating member mounted on the builder arm adapted to engage the second mentioned cam, an escapement controlled by the second mentioned cam, means for holding the roller and escapement in operative relation to the second mentioned cam, means whereby the escapement causes the release of the



said means, and means for moving the said roller and escapement out of operative relation to the said second mentioned cam.

1,350,906. WHEEL-CULTIVATOR. FRANK A. WOOLF, Wichita, Kans. Filed Sept. 18, 1917. Serial No. 191,932. 1 Claim. (Cl. 97—42.)



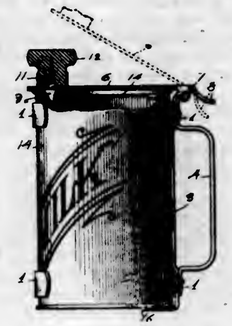
A wheel cultivator comprising spaced-apart members connected at their opposite extremities to constitute a frame; a wheel mounted within the frame between the ends thereof; members disposed at the forward end of the frame, extended upwardly therefrom, then diverging and carried backwardly in the direction of the wheel; handles secured to the free ends of these members; a push-rod adjustably secured, at one end, between the extended members, at a point in advance of the wheel; a tool carrying member disposed on the other end of the frame; and a yoke connecting the handles and frame.

1,350,907. METHOD FOR FORMING CONDUCTING-SEALS FOR INCANDESCENT-LAMP BULBS OR THE LIKE. TEIZO YANAI, Tokyo, Japan, assignor, by direct and mesne assignments, to Nihon Denki Kogyo Kabushiki Kaisha, Tokyo, Japan. Filed Sept. 30, 1916. Serial No. 122,990. 3 Claims. (Cl. 176—36.)



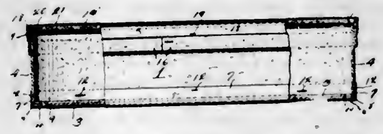
1. A method of hermetically sealing leading in wires for glass vacuum containers which consists in flattening wires of a single metal and then oxidising the wires to form on them a coating of oxid of the metal, embedding the oxidized portions of the wires in the glass after the same has been softened by heating, and then heating the wires to nearly the melting point to form between the wires and the glass a layer of glass containing oxid of the metal of the wires and having a coefficient of thermal expansion between that of the metal and glass.

1,350,908. HOLDER FOR CONTAINERS. HENRY J. YORK, San Francisco, Calif. Filed Feb. 2, 1920. Serial No. 355,789. 4 Claims. (Cl. 65—61.)



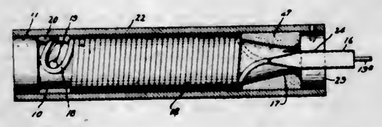
1. A holder for containers and the like comprising spring clips adapted to engage said container and having openings therein for the insertion of said container; a handle connecting said clips adjacent the openings therein whereby a portion of said clips will be under and thereby support said container when the handle is substantially horizontally disposed, and a cover hingedly connected to the upper end of the connecting handle and arranged to cover said container; and a thumb piece formed integral with the cover and extending adjacent the handle whereby said cover and perforation closing means may be raised from the top of said container.

1,350,909. CHEESE-BOX. ERNEST ZEIDLER, Marshfield, Wis. Filed Apr. 9, 1920. Serial No. 372,552. 3 Claims. (Cl. 217—1.)



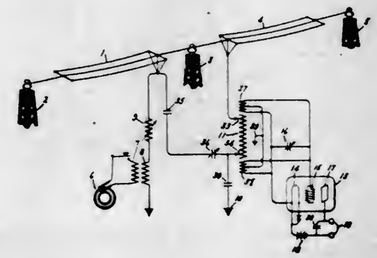
1. A box having its body portion formed from a single strip of fiber board the ends of which are overlapped and secured together, a wooden bottom having a channel around its edges for the reception of the lower edge of the body member, a recess in the bottom in communication with the channel for the reception of one of the overlapped ends of the body member, a metallic angle member extending around the lower edge of the body member and having one of its flanges engaging the outer wall of the body member and its other flange engaging the under face of the bottom and staples passing through said flanges and the fibrous body member and through the wooden bottom.

1,350,910. ELECTRIC HEATING UNIT. CHARLES C. ABBOTT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 20, 1918. Serial No. 241,061. 6 Claims. (Cl. 219—67.)



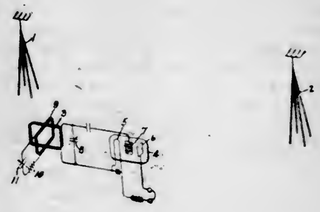
1. An electric heating device comprising a metal core and a sheathed wire heating element surrounding the core, the core and heating element being worked into intimate contact.

1,350,911. WIRELESS SIGNALING SYSTEM. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 20, 1917. Serial No. 143,491. 8 Claims. (Cl. 250—9.)



1. The combination in a wireless signaling system of a receiving antenna, a separate transmitting antenna in proximity thereto, and a receiving coil having one end connected to said receiving antenna and its opposite end connected to a point between two capacities one of which is connected to earth and the other of which is connected to the transmitting antenna.

1,350,912. RADIORECEIVING SYSTEM. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 25, 1917. Serial No. 188,109. 3 Claims. (Cl. 250—20.)

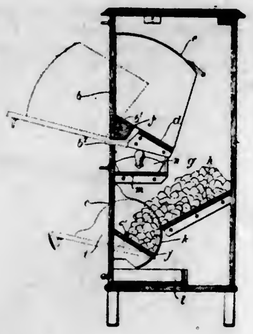


1. Means for preventing the effect upon radio receiving apparatus of waves transmitted from a nearby station comprising a receiving coil located in a plane passing through a distant station from which messages are to be received, said coil being connected in a circuit which is resonant to the frequency of the waves to be received and a second coil located at substantially a right angle to the first coil and connected in a circuit which is resonant to the frequency of the waves from the nearby station.

1,350,913. COAL CABINET, SCUTTLE, AND THE LIKE. ARTHUR E. ARNOLD, Llandudno, Wales. Filed Oct. 23, 1919. Serial No. 332,728. 3 Claims. (Cl. 126—283.)

1. A coal cabinet having an upper opening provided with a closure, a main coal receptacle supported on said closure, said cabinet having a lower opening provided with a closure, a coal receiving member supported on,

and movable with, said lower closure, and an inclined baffle arranged in the cabinet to receive material from the



receptacle on the upper closure, and deliver said material to the coal receiving member.

1,350,914. BALLOT. JOHN S. BAKER, Los Angeles, Calif. Filed Mar. 6, 1919. Serial No. 280,904. 5 Claims. (Cl. 283—5.)



1. An electoral ballot displaying the names of the candidates thereon and having a part of the ballot adjacent the name of each candidate preliminarily weakened in such manner that the voter can readily complete the formation of a hole of proper size in the ballot opposite the name of the candidate for whom he wishes to vote, such preliminarily weakened portions of the ballot being so located that the holes completed by the voter will be properly centered; and the ballot having registering portions whereby any number of such ballots when voted may be properly counted by a suitable machine.

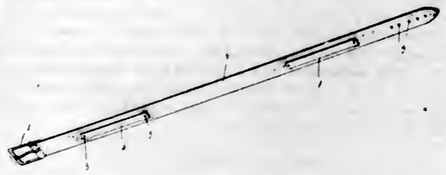
2. An electoral ballot displaying the names of the candidates and having weakened portions adjacent the names of the candidates, to enable a voter to readily make a hole opposite the name of the candidate for whom he desires to vote by pushing a pencil or pointed instrument through the adjacent preliminarily weakened portion of the ballot; the preliminarily weakened portions in the ballot being so located that the holes completed by the voter will be properly centered; and the ballot having registering portions whereby any number of such ballots when voted may be counted by a suitable machine.

3. An electoral ballot bearing the names of the candidates and having an indicating space adjacent the name of each candidate, the material of the ballot being preliminarily weakened at such spaces so that the voter can readily punch such spaces to form holes in the ballot opposite the names of the candidates for whom he wishes to vote; such preliminarily weakened portions in the ballot being so located that the holes completed by the voter will be properly centered; and the ballot having registering portions to enable any number of such ballots when voted to be properly counted by a suitable machine.

4. An electoral ballot bearing the names of the candidates and having a part of the material of the ballot adjacent the name of each candidate preliminarily weakened by partially perforating the ballot to enable the voter to readily punch such weakened portion of the ballot opposite the name of the candidate for whom he wishes to vote; the preliminarily weakened portions in the ballot being so located that the holes completed by the voter will be properly centered; and the ballot having registering portions to enable any number of such ballots when voted to be properly counted by a suitable machine.

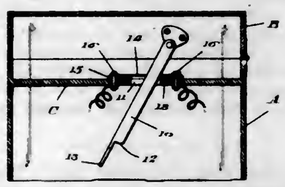
5. An electoral ballot for the purpose specified bearing the names of the candidates and having an indicating space adjacent the name of each candidate; the material in the ballot at such spaces being preliminarily weakened by partially detaching the portions of material of the ballot within such spaces from the ballot to enable the voter to readily punch such portions from the ballot opposite the names of the candidates for whom he wishes to vote; the preliminarily weakened portions of the ballot being so located that the holes completed by the voter will be properly centered; and the ballot having registering portions to enable any number of such ballots when voted to be properly counted by a suitable machone.

1,350,915. BELT. CARL O. BAKKE, Fertile, Minn. Filed Jan. 16, 1917. Serial No. 142,715. 1 Claim. (Cl. 241—8.)



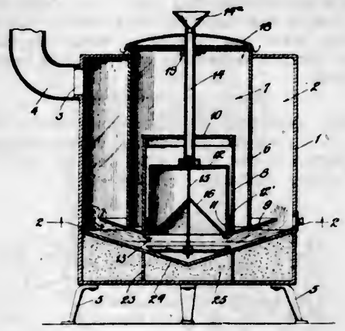
A belt structure, comprising a flexible band, spring strips, each of uniform width throughout its length less than the width of the band and disposed longitudinally of the same at an equal distance from its edges, and means for securing the opposite extremities of each strip on the outer side of said band, said strips being adapted to be arranged adjacent to and embracing the hips of a wearer of the band when passed about the body of said wearer, the band being adapted at the edges thereof on opposite sides of the strips to curl outwardly over the edges of said strips to protect the hips from the edges of said strips.

1,350,916. SWITCH. FERDINAND A. BARRETT, Jr., Niagara Falls, N. Y. Filed Aug. 8, 1919. Serial No. 316,128. 2 Claims. (Cl. 240—2.)



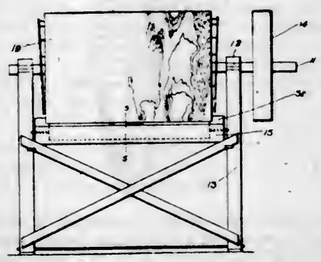
2. In a talking machine cabinet including a hinged cover, a stationary top, and an arm pivotally connected with the cover and movable through a guide slot in the stationary top of the cabinet; illuminating means comprising an incandescent bulb, a metal plate secured upon said stationary top and having a slot registering with the slot therein, said plate having at one end a cut-out portion, and a spring contact secured within said cut-out portion and insulated from the plate, said plate and contact being in circuit with said bulb and a source of current, and the free end of said arm being cut away to form a toe and a heel engageable with said contact.

1,350,917. OIL-BURNER. WILLIAM BECKMAN, Sealy, Tex. Filed Jan. 29, 1920. Serial No. 354,861. 10 Claims. (Cl. 158—91.)



1. In an oil burner the combination of a casing, a flue pipe connected therewith, a cylindrical member supported in and spaced from the walls of the casing to provide a heating chamber, an adjustable damper on the top of said cylindrical member, a tubular member within the cylindrical member and spaced therefrom, to form an air heating chamber and formed near its bottom with a series of openings, a flame deflecting plate extending from the bottom of the tubular member into the heating chamber, an inclined bottom spaced from the deflecting plate to form a combustion chamber and flame passage, a drum closed at the top and disposed within and spaced from the tubular member, a conical plate within the drum having the periphery adjacent the bottom edge of the drum, a drip pan below the conical plate and an oil supply pipe extending from and connecting with the drum.

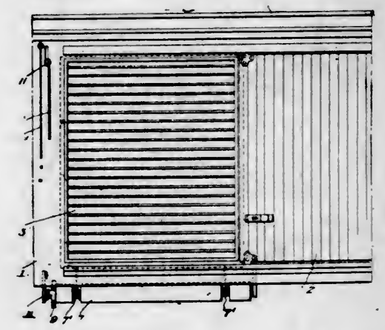
1,350,918. MACHINE FOR GRAINING WOOD. JENS AMANDUS BJORN, Jamestown, N. Y. Filed Sept. 19, 1919. Serial No. 324,881. 10 Claims. (Cl. 101—150.)



1. A wood graining machine comprising a grain-type cylinder mounted for rotation, means for rotating the cylinder, a trough arranged beneath said cylinder, an inking roller journaled in said trough and engaging said cylinder, a normally spaced composition roller capable of movement toward and away from the cylinder, and means, controlled by said cylinder whereby said roller is drawn by the cylinder into close contact with the same for a predetermined interval, and subsequently released to gravitate to normal position.

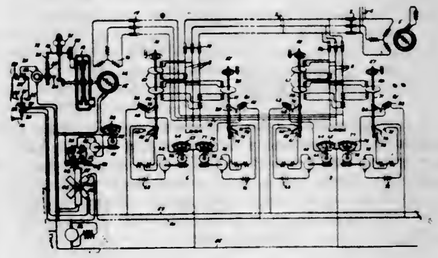
1,350,919. CAR-DOOR. JOHN M. CARLSON, Sandstone, Minn. Filed June 2, 1919. Serial No. 301,210. 1 Claim. (Cl. 20—32.)

A grain car having rollers located adjacent the upper and lower ends of the door opening, said rollers having reduced portions thereon, chains connected with said reduced portions, a flexible door having its ends connected



with said chains and means for manually rotating the rollers to wind the door thereon.

1,350,920. ELECTRICAL SYSTEM OF POWER TRANSMISSION. JAMES R. CRAIGHEAD and HENRY R. SUMMERHAYES, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Apr. 17, 1919. Serial No. 290,687. 17 Claims. (Cl. 171—119.)

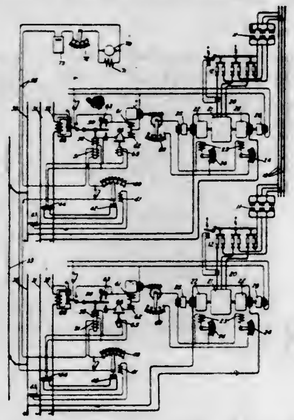


1. In combination, a source of alternating current, a distribution system, comprising a plurality of branch load circuits, supplied therefrom, and means responsive to electrical conditions in said branch circuits arranged to vary its position in accordance with the power factor of the load imposed upon said source by said system.

1,350,921. POWER-LIMITING SYSTEM. JAMES R. CRAIGHEAD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 26, 1920. Serial No. 354,059. 6 Claims. (Cl. 171—312.)

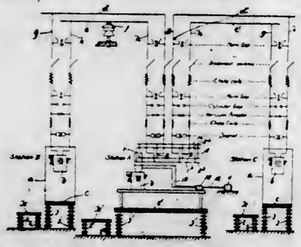
1. In combination, a distribution circuit, a plurality of sources of electric energy adapted to supply power to said circuit and to receive power from said circuit, and a power limiting system comprising means associated with each source and controlled by the total demand on all of

said sources for varying the voltage thereof, and means for rendering the voltage varying means associated with



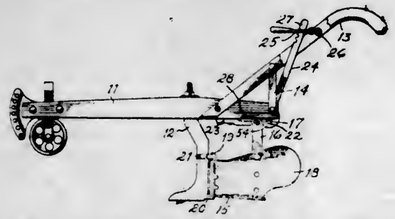
a source in inoperative to decrease the voltage thereof when said source is receiving power from said circuit.

1,350,922. HIGH-TENSION TELEPHONE SYSTEM. FRANK C. DOBLE, Winchester, Mass. Filed July 30, 1919. Serial No. 314,365. 8 Claims. (Cl. 179—1.)



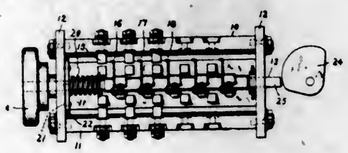
1. A high tension telephone system having all its parts insulated from ground and so designed that no part of the system will break down to ground under a sustained electrical stress less than one thousand volts pressure (root mean square sine wave value) at any frequency; and comprising as such parts a circuit, a telephone instrument and an operator's station.

1,350,923. GARDEN SIDEHILL-PLOW. ZACARIAS DOMINGUEZ, Los Angeles, Calif. Filed Mar. 5, 1918. Serial No. 220,501. 3 Claims. (Cl. 97—27.)



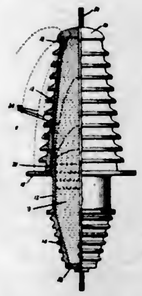
1. The combination with a plow-beam and standard, handles fixed to the plow-beam, and a brace connecting the handles, of a swinging frame pivotally connected to the standard and consisting of a bottom brace, side braces, and a cross sector connecting the side braces and having a series of notches, angularly and rearwardly diverging mold-boards fixed to the bottom and side braces of the frame, a lug fixed to the bottom of the plow-beam, said cross sector sliding between the lug and beam, a lever mounted on the beam and adapted to engage with the notches in the movable cross sector part of the swinging frame, and a latch pivotally connected to the handle-connecting brace and adapted to secure the retaining lever in operative engagement with the cross sector part of the frame.

1,350,924. CONTROL-SWITCH. JOHN EATON, Schnectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 26, 1918. Serial No. 246,801. 3 Claims. (Cl. 200—16.)



1. A circuit controller comprising a plurality of sets of radially disposed stationary contacts mounted on a support for the same with intervening spaces between the sets of contacts, a shaft having a plurality of contacts arranged longitudinally thereof rotatable to positions adjacent the stationary contacts but normally out of engagement therewith during its movement, and means for forcing said shaft longitudnally from its normal position into engagement with any of the fixed contacts when it reaches a position adjacent thereto.

1,350,925. INSULATION. GIUSEPPE FACCIOLI, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 20, 1917, Serial No. 156,220. Renewed May 12, 1920. Serial No. 380,886. 11 Claims. (Cl. 173—318.)

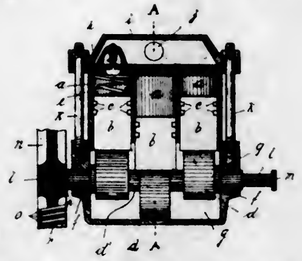


6. The combination with a conductor, a bushing surrounding the same, and a conducting member surrounding the bushing intermediate its ends, of a hollow conducting cylinder to materially reduce the number of electrostatic flux lines terminating on said conductor beyond one end of said bushing, concentric with, electrically connected to and of a greater diameter than said conductor, and adjacent said end of said bushing, the end of said cylinder toward said conducting member being embedded in the material of said bushing, said conductor being provided with a conducting portion beyond said end of said bushing materially enlarging the diameter of said conductor adjacent that end of the bushing.

1,350,926. AIR-PUMP FOR INFLATING PNEUMATIC TIRES. JOSEPH MARIE ETIENNE FRANC, Andancette, France. Filed Aug. 22, 1919. Serial No. 319,273. 2 Claims. (Cl. 230—27.)

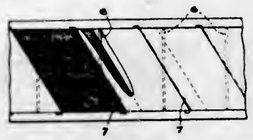
1. An air pump for inflating pneumatic tires comprising a casing, a plurality of cylinders thereon, valves in said

cylinders, pistons slidably mounted therein, a cam shaft, cams on said shaft in operative engagement with the pistons, the said cams being in equal angular relation on the shaft according to the number of cylinders, and spiral springs bearing on the tops of the pistons for keeping them up to the working faces of the cams on the re-



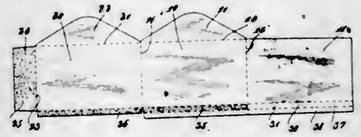
turn strokes of the pump, the cam shaft being made hollow and having slidably mounted therein another shaft, a spur wheel secured on such inner shaft and formed to be held in engagement with a coöperating pinion through its tooth formation, whereby the inner shaft may be moved to disengage such spur wheel at will.

1,350,927. CENTRIFUGAL COMPRESSOR. JOEL GOMBOROW, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 26, 1918. Serial No. 264,221. 4 Claims. (Cl. 230—11.)



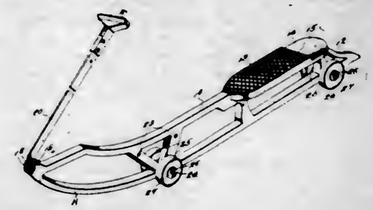
1. In a centrifugal compressor, an impeller having a set of blades and a set of discharge vanes which surround the impeller, said discharge vanes having substantially the same axial width as the blades and extending radially and circumferentially whereby the fluid discharged to them from the blades is given a combined radial and tangential path, said vanes serving to convert velocity into pressure, the discharge edges of the blades and the inlet edges of the vanes being straight and made to extend at different angles to the axis of the shaft whereby they will cross each other gradually.

1,350,928. ENVELOP. WERONA HOMENIUK, Woodlight, Saskatchewan, Canada. Filed Oct. 5, 1918. Serial No. 257,004. 1 Claim. (Cl. 229—75.)



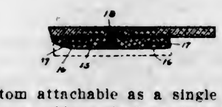
A blank for an envelop having two body portions, folding tabs formed with said portions adapted to fold inwardly and outwardly, one of said tabs having a marginal line of adhesives, long and short end tabs formed with said body portions, folding lines formed longitudinally through said body elements and one of said end tabs whereby portions of the blank may be turned reentrantly along its lower edges so that said body portions are interengaged one with the other, and with the longer of said tabs, and an adhesive along the marginal edges of said folded portions and along the surface of said shorter tab whereby the envelop may be secured in position.

1,350,929. COMBINED SLEIGH AND WHEEL COASTER. JOHN H. MCCARTHY, Lyons, N. Y., assignor to Edward J. Doyle, Rochester, N. Y. Filed Apr. 7, 1919. Serial No. 288,020. 1 Claim. (Cl. 280—8.)



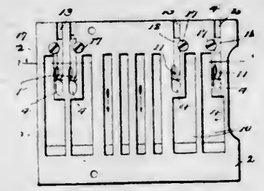
A combined sleigh and wheel coaster comprising a single integral body formed as a runner including an open frame and a foot supporting platform on the upper rear portion thereof, a handle connected with the forward end of said body, the runner portion being provided adjacent its end portions with a pair of holes and the upper portion of the body being provided with a pair of spaced holes, axles disposed through said first named holes, and wheels journaled upon the ends of said axles and disposed upon opposite sides of the runner, said wheels and axles being removable and adapted for disposition within said second named holes whereby to permit the runner to contact with the surface traveled over.

1,350,930. RUBBER SHOE-BOTTOM. WARREN MACPHERSON, Cambridge, Mass. Filed Jan. 26, 1920. Serial No. 353,995. 1 Claim. (Cl. 36—32.)



A shoe bottom attachable as a single part to a shoe, and comprising a rubber sole formed as a single integral part, and including a fore portion, a shank portion, and a heel portion, a layer of rupturable material covering the under surface of the heel portion and having a curved edge portion registering with the curved margin of the heel portion, and a breast edge portion extending across the bottom of the sole, and a rubber heel body, the curved edge portion and breast edge portion of which register respectively with the curved edge portion and the breast edge portion of the said layer, said heel body being provided with means for engaging attaching nails, the said heel portion, layer, and heel body being united by vulcanization, and the heel body being adapted to be stripped from the heel portion to leave on the latter a seat to which another duplicate heel body may be applied.

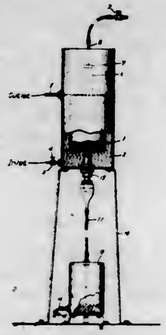
1,350,931. LOOP-RETAINER FOR SEWING-MACHINES. JAMES R. MOFFATT and RALPH S. KELSO, Chicago, Ill., assignors to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 22, 1918. Serial No. 250,946. 9 Claims. (Cl. 112—260.)



1. The combination of a needle, a feeding mechanism, a threaded looper moving into and out of the needle loop in a line substantially parallel with the line of feed, said

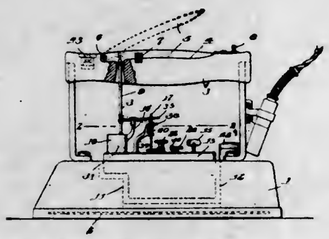
looper having a lateral needle avoiding movement while in the needle loop, a throat plate having a needle opening therein, said throat plate having a thread clearance groove formed in its underface leading forwardly from the needle opening, and a retainer detachably secured to the under surface of the throat plate and having its rear end partially overlapping said groove for retaining the looper thread during the lateral movement of the looper and during the first part of its backward movement so as to insure the needle passing between the looper thread and the body of the looper.

1,350,932. PROCESS OF MAKING SILICON TETRACHLORID. ROY W. MOORE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 18, 1918. Serial No. 217,740. 3 Claims. (Cl. 23—10.)



1. A step in the process of carrying out a reaction between a halogen and a charge containing silicon as a constituent, which consists in controllably withdrawing heat from the reaction zone to maintain the reaction temperature within the range in which a desired silicon compound is formed, and below the point at which undesired halogen compounds of silicon are formed.

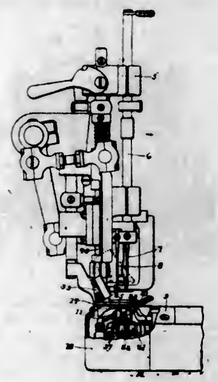
1,350,933. ALTERNATED TIME-CONTROLLED MECHANISM FOR IRONS. JOSÉ A. OCA-BALDA, New York, N. Y. Filed Aug. 1, 1919. Serial No. 314,661. 9 Claims. (Cl. 219—25.)



5. The combination with an electric iron, of means for alternately making and breaking the circuit thereof, time controlled mechanism for actuating such means, and means for automatically rendering the mechanism inactive with the circuit broken if the iron is left.

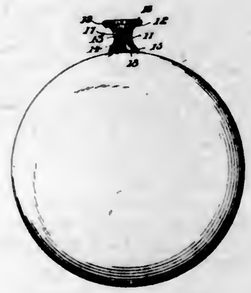
1,350,934. SEWING-MACHINE. LANSING ONDERDONK and AUGUST J. WOHLPART, New York, N. Y., assignors to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 2, 1916. Serial No. 123,339. 14 Claims. (Cl. 112—200.)

1. A sewing machine including in combination, needles arranged in pairs, one pair being in front of the other, a looper coöperating with the front pair of needles, a looper coöperating with the rear pair of needles, a deflector for the needle thread loops of one pair of needles,



and means for operating said deflector whereby the needle loops engaged thereby are moved to one side of the path of the needles and the needles caused to enter the looper thread loop in advance of the loops of both needles.

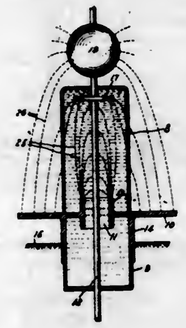
1,350,935. TOY BALLOON. FRANK PASTOR, Akron, Ohio, assignor to The Anchor Rubber Company, Inc., Barberton, Ohio, a Corporation of Ohio. Filed June 6, 1917. Serial No. 173,133. 10 Claims. (Cl. 46—37.)



1. A toy balloon including a body portion, a contracted neck portion, and means fastened to the neck portion coöperating therewith and constituting a valve closure for the balloon, the said means including a collar flaring outwardly at each end.

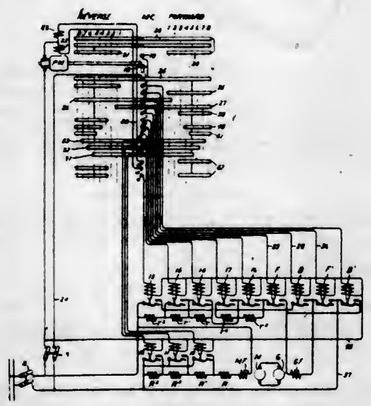
1,350,936. INSULATOR. FRANK W. PEEK, Jr., Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Continuation of application Serial No. 154,934, filed Mar. 15, 1917. This application filed Jan. 2, 1919. Serial No. 269,193. 16 Claims. (Cl. 173—311.)

1. The combination with conducting members at materially different potentials, of intervening masses of dielectric material shaped to have the bounding surfaces of discontinuity obtaining between said masses crossed by electrostatic flux, and an electrostatic flux controlling means electrically connected to one of said members proportioned and located in the said dielectric masses sub-



stantially to avoid regions of local concentration in said flux over said surfaces of discontinuity.

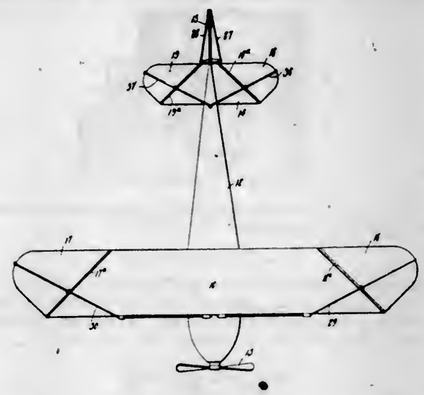
1,350,937. CONTROLLER FOR ELECTRIC MOTORS. CHARLES L. PERAY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 6, 1918. Serial No. 265,628. 11 Claims. (Cl. 172—179.)



1. The combination with an electric motor, of a main controller therefor having a plurality of positions, a pilot motor for operating the same, a manually operated master controller having positions corresponding with those of the main controller, and means comprising a single movable contact establishing an electrical connection for the pilot motor through the main and master controllers, whereby when the master controller is moved to a predetermined position the main controller is moved by the pilot motor to a corresponding position.

1,350,938. AEROPLANE. MARINUS PETERSEN, Kenmare, N. D. Filed Oct. 21, 1918. Serial No. 259,147. 2 Claims. (Cl. 244—29.)

1. An aeroplane having its sustaining and tail wings provided with ailerons mounted for deflection upon diagonal lines convergent rearwardly of the machine, a rudder mounted for lateral deflection upon a line extending upwardly and rearwardly of the axis of the machine, and



means for effecting adjustment of said ailerons and rudder.

1,350,939. OIL-PUMP. JOHN PETTIT, Taft, Calif. Filed Apr. 13, 1920. Serial No. 373,510. 2 Claims. (Cl. 103—80.)

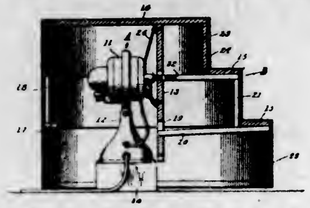


1. A device of the class described including a pump barrel, a standing valve and a movable valve, a supplemental valve bearing on the movable valve, a tubular settling chamber attached to the movable valve and inclosing the supplemental valve, a tubular conductor communicating with the movable valve, a hollow head member connected to the conductor to which a sucker rod is adapted to be attached, a valve within the head and engaging the conductor, and a plurality of tubes depending from the head and discharging into the settling chamber.

1,350,940. DISPLAY-STAND. XOLON O. RAY, Chaffee, Mo. Filed Dec. 5, 1919. Serial No. 342,746. 1 Claim. (Cl. 211—20.)

A display stand including a plurality of spaced superimposed shelves of different diameters, a top wall, a wall depending from the top and having its opposed edges, stepped to support said shelves, means for closing the space between the shelves, arms projecting forwardly from

the depending wall, bracing elements carried by said arms and arranged between the shelves, and means asso-



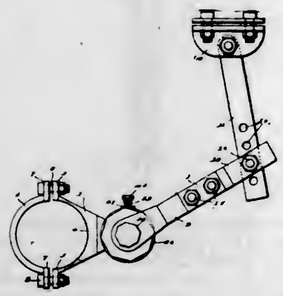
ciated with said depending wall for supporting the stand for oscillatory movement.

1,350,941. CENTRIFUGAL COMPRESSOR. RICHARD H. RICE, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 26, 1918. Serial No. 264,161. 5 Claims. (Cl. 230—11.)



1. In a centrifugal compressor, an impeller having a set of blades, and a set of discharge vanes which surround the impeller, said discharge vanes having substantially the same axial width as the blades and extending radially and circumferentially whereby the fluid discharged to them from the blades is guided in a combined radial and tangential path, said discharge vanes serving to convert velocity into pressure, the inlet edges of the discharge vanes and the discharge edges of the impeller blades being so arranged relatively to each other that such edges pass each other gradually.

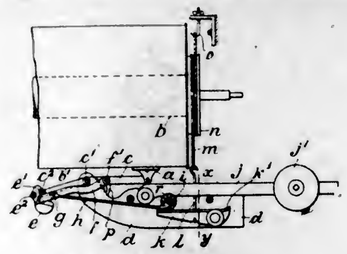
1,350,942. VEHICLE-SPRING. MARION L. RIGGS, Bertha, Minn. Filed Jan. 21, 1919. Serial No. 272,299. 4 Claims. (Cl. 188—89.)



1. A device of the class described, comprising a cylinder containing a fluid, a stationary abutment therein, a shaft in said cylinder, an abutment carried thereby, said abutments having restricted passages therein, a valve controlling the passage in the shaft abutment, a screw-threaded filling plug carried by the cylinder and acting as an adjusting means for the passage in the stationary abutment and arms connected with the shaft and cylinder.

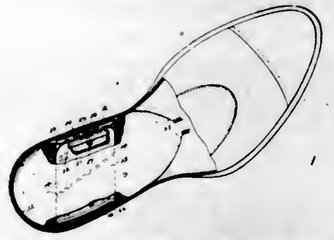
1,350,943. SELF-ACTING WARP-TENSION-REGULATING MOTION FOR LOOMS FOR WEAVING. PETER SCHOLES, Hyde, England. Filed June 8, 1920. Serial No. 387,501. 4 Claims. (Cl. 139—58.)

1. In warp tension regulating mechanism, a feeler device for engaging the warp, a pivoted counterbalance lever, a brake operating lever, a pulley arranged between the said levers and operatively connected with the said feeler



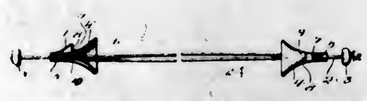
device, and a friction brake for the warp controlled by the said brake operating lever.

1,350,944. ORTHOPEDIC DEVICE. MELVIN L. SEVERY, Los Angeles, Calif. Filed Aug. 2, 1916. Serial No. 112,675. 15 Claims. (Cl. 128—80.)



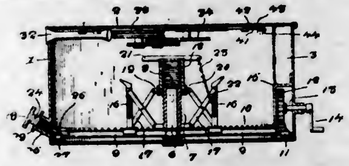
1. The combination with a shoe of an upstanding frame rigidly mounted wholly within said shoe at one side and projecting upward from the heel thereof, and a laterally adjustable member carried by the upper end of said frame and adapted to bear against the wearer's foot near the ankle to offer lateral support to the latter.

1,350,945. HATPIN. DORSEY M. STOCKDALE, Carmichaels, Pa. Filed Feb. 7, 1919. Serial No. 275,589. 2 Claims. (Cl. 132—25.)



1. In combination with a pair of hat pins, a safety device on each pin for receiving the end of the other pin, said device consisting of a bell-shaped member and means for frictionally holding the device on the pin.

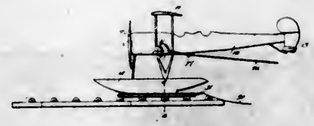
1,350,946. REEL. DORSEY M. STOCKDALE, Ellenboro, W. Va. Filed Apr. 29, 1919. Serial No. 293,379. 2 Claims. (Cl. 242—112.)



1. A reel of the class described comprising a case, a cover therefor, a spindle therein, a hub rotatably mounted on the spindle and having a screwthreaded portion, spokes

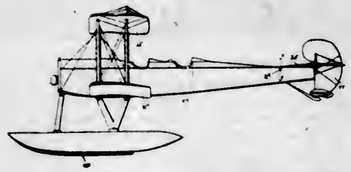
secured to said hub, slotted upright members slidably engaging with said spokes, a sleeve interiorly screw-threaded and engaging the screw-threaded part of the hub, a collar rotatably carried by said sleeve, toggle levers connecting the upright members with said collar and with said hub.

1,350,947. LAUNCHING DEVICE FOR FLYING-MACHINES. MAX STUPAR, Buffalo, N. Y., assignor to Abraham J. Elias, Buffalo, N. Y. Original application filed June 25, 1919, Serial No. 306,613. Divided and this application filed Dec. 10, 1919. Serial No. 343,749. 4 Claims. (Cl. 244—2.)



1. A launching device for flying machines comprising a roller carrying runway, a supporting cradle movable on the rollers of the runway and beyond the runway at its extremity, and water rudders carried by said cradle.

1,350,948. DETACHABLE STABILIZING-FIN FOR FLYING-MACHINES. MAX STUPAR, Buffalo, N. Y., assignor to Abraham J. Elias, Buffalo, N. Y. Original application filed June 25, 1919, Serial No. 306,613. Divided and this application filed Dec. 10, 1919. Serial No. 343,751. 5 Claims. (Cl. 244—29.)



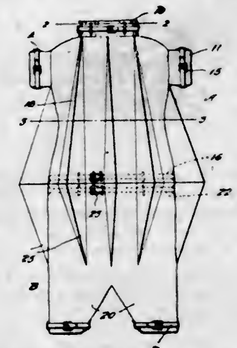
5. A flying machine including a fuselage, and a stabilizing fin seated horizontally on the upper rear portion of the fuselage and having detachable connection at the sides of its forward and the center of its rear portion with the fuselage.

1,350,949. RAILWAY-SWITCH-OPERATING MECHANISM. CARL E. TALLY, Kopperl, Tex. Filed Feb. 13, 1920. Serial No. 358,361. 4 Claims. (Cl. 246—306.)



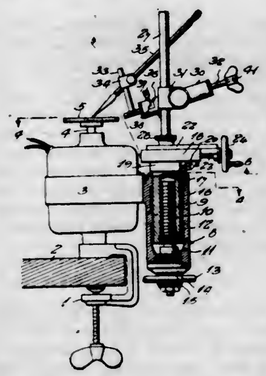
3. A railway switch operating mechanism comprising a plurality of track devices arranged in pairs at the opposite sides of the track and connected with the switch, each device comprising a stationary base, an element mounted upon the base for sliding and tilting movements, means for checking the movements of said element, resilient means for returning the element from a tilted to a vertical position at either end of the base, in combination with means carried by the locomotive for tripping said elements in the order specified.

1,350,950. LIFE-SAVING SUIT. JANOS TÁLOS, Akron, Ohio. Filed Apr. 26, 1920. Serial No. 376,704. 2 Claims. (Cl. 9—20.)



1. A garment of the character described constructed from water-proof material and including a body portion, legs, arms, and neck receiving portions, means for contacting such portions about the body of the user, a plurality of spaced pockets extending from the neck portion to within a short distance of the ends of the leg portions, and a buoyant element filling each pocket for the purpose specified.

1,350,951. DENTAL-INSTRUMENT-GRINDING DEVICE. HANS ARTMAIER, Racine, Wis. Filed Apr. 14, 1919. Serial No. 289,779. 6 Claims. (Cl. 51—7.)



1. In an instrument grinding device, a support for attachment to a bench or table, a motor mounted on said support with its shaft disposed vertically, a grinding member carried by the upper end of said shaft, a vertical guide offset laterally from and carried by the motor casing, a slide carried by said guide, means for adjusting said slide vertically, and means mounted on said slide for holding the instrument and adjusting it to the aforesaid grinding member.

1,350,952. CHAIN-CONNECTOR. TRUE M. AVERY, Glens Falls, N. Y., assignor to Arrow-Grip Manufacturing Co., Inc., Glens Falls, N. Y., a Corporation of New York. Original application filed Feb. 10, 1917, Serial No. 147,856. Divided and this application filed Dec. 17, 1918. Serial No. 267,187. 4 Claims. (Cl. 24—241.)

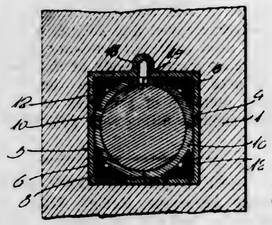
3. A device for securing chains comprising an attachment plate provided with a pair of opposed hooks having their terminals in adjacency whereby to delimit an intervening space which provides a passage common to both links to be secured and a bodily movable keeper including

a pair of spring members normally disposed in said passage to spring outward relatively to one another and to press against the hook terminals, thereby to close the



hooks relatively to said passage, said spring members having openings to take over the hook terminals thereby normally to lock the keeper against displacement.

1,350,953. SHAFT-BEARING. ARTHUR THOMAS BALL, Ranger, Tex. Filed Dec. 4, 1919. Serial No. 342,343. 2 Claims. (Cl. 64—55.)



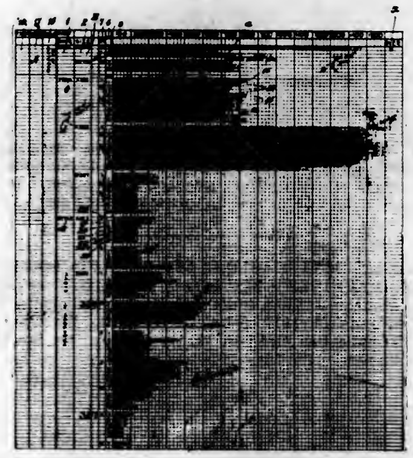
2. A bearing for shafts comprising a rectangular casing provided at one end with stop means, being open at its opposite end, a plurality of substantially triangular bearing blocks fitted into the four corners of the casing and bearing against said stop means, said blocks being provided with a plurality of spaced non-circular apertures, a plurality of arcuate bearing members having flat-face projections thereon adapted to fit into the apertures in the bearing blocks, the inner faces of said members being curved to form a smooth bearing for a shaft, and a closing plate for the casing adapted to engage the opposite ends of the bearing members and blocks to retain them against end-wise movement.

1,350,954. OPTOPHONE. ARCHIBALD BARR and WILLIAM STROUD, Anniesland, Glasgow, Scotland, and EDMUND EDWARD FOURNIER D'ALBE, London, England, assignors to Barr and Stroud, Limited, Glasgow, Scotland. Filed Nov. 26, 1919. Serial No. 340,745. 4 Claims. (Cl. 250—1.)



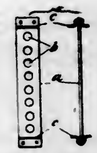
1. An optophone having means by which a series of intermittently luminous beams having different frequencies of intermission are produced, a primary and a secondary sensitive tablet each composed of a substance the electrical conducting properties of which alter under the action of light, means for supporting a printed page, the printed page having light reflecting and comparatively non-reflecting surface portions, means for projecting continuously onto the secondary tablet portions of the light of the whole series of beams, means for projecting onto the surface of the paper intermittently luminous dots of the whole series, the primary tablets being arranged to receive the light reflected from the paper, a source of electricity, two circuits one containing the primary tablet the other the secondary tablet, and a telephone, for the purposes set forth.

1,350,955. MEANS EMPLOYED IN PRODUCTION AND MATERIAL CONTROL SYSTEMS. EVERETT H. BICKLEY, Southbridge, Mass. Filed Jan. 16, 1918. Serial No. 212,061. 13 Claims. (Cl. 283—66.)



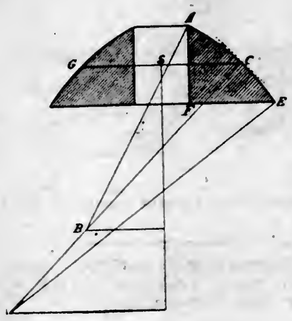
1. A chart containing a line designated to represent materials received, another line designated to represent materials removed, another line designated to represent orders received, the lines so distinguished that the difference in length is plainly shown, and suitable symbols at the ends of the lines to indicate the nature of the lines so named, the length of the lines representing quantities by suitable units, and any fraction of a unit being carried in figures at the end of the lines, all of the said lines being parallel and reading in the same direction from a common point.

1,350,956. ALKALINE ACCUMULATOR. ANTOINE MARIUS CAVE, St. Etienne, France. Filed Nov. 7, 1918. Serial No. 261,532. 6 Claims. (Cl. 204—29.)



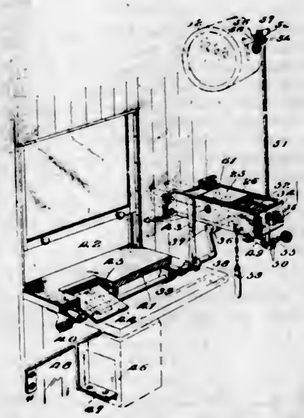
3. An electrode for electric accumulators, comprising in combination a central conducting metal plate having perforations along its length, metallic cloth wrapped around the plate, active material filling the interstices in the cloth, an insulating envelop permeable to gases covering the cloth, bands of vegetable tissue enwrapping the envelop, and means carried by the ends of the plate adapted to hold the envelop in position on the cloth.

1,350,957. CONSTRUCTION OF LENSES FOR LAMPS, PROJECTORS, AND THE LIKE. WILLIAM THOMAS COULSON, Anerley, London, England. Filed Feb. 10, 1919. Serial No. 276,113. 2 Claims. (Cl. 240—106.)



1. A lens comprising two sections each having a co-axial hole therethrough and outer convex faces formed with curves of different radii, said curves having a common tangent at the junction of said sections and a source of light positioned in said co-axial holes.

1,350,958. TOLL-COLLECTING MECHANISM. CLAUDE B. DAVIS, Richmond, Va., assignor of one-half to Marion Allen and one-fourth to Willie Thomas Bragg, Richmond, Va. Filed Nov. 23, 1918. Serial No. 263,864. 7 Claims. (Cl. 133—1.)

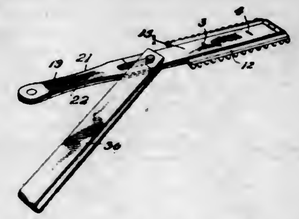


1. The combination with a turnstile of a detent for the turnstile, a dumpable coin tray and a single means for retracting the detent and simultaneously dumping the coin tray.

1,350,959. PROCESS FOR THE EXTRACTION OF LEAD FROM ITS ORES. FRANK EDWARD ELMORE Boxmoor, England. Filed Apr. 11, 1919. Serial No. 289,412. 4 Claims. (Cl. 23—13.)

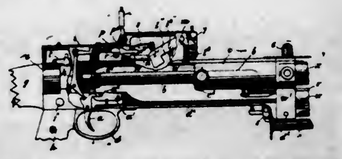
1. The herein described improvement in brine processes for the extraction of lead from its ores consisting in first cooling the used brine to deposit lead salts, further cooling the brine to about 0° C. and converting the lead salts into lead sulfate technically free from chlorid by means of sodium sulfate derived from the brine by the said further cooling.

1,350,960. SAFETY-RAZOR AND BLADE-HOLDER. WILLIAM M. EVANS, Tampa, Fla. Filed Jan. 19, 1920. Serial No. 352,311. 2 Claims. (Cl. 30—12.)



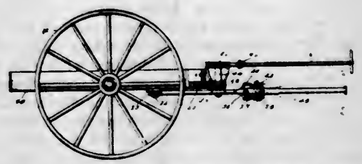
1. A combined razor and blade holder comprising an elongated bar having a central elongated slot therein and spurs struck up at one side of the slot, a short bar hinged to one end of said elongated bar and adapted to swing in a flatwise direction, said short bar having openings therein to receive the outer ends of said spurs, a guard plate having openings to receive the spurs and end notches to reversibly receive the hinged joint between the short and elongated bars, a blade also having openings to receive the spurs and similar end notches, a second short bar pivoted to the opposite end of the elongated bar and swinging in a flatwise direction, and means for securing the inner ends of the two short bars together, substantially as described.

1,350,961. AUTOMATIC FIREARM. MOUBRAY GORE FARQUHAR and ARTHUR HENRY HILL, Birmingham, England. Filed Apr. 15, 1919. Serial No. 290,267. 8 Claims. (Cl. 89—2.)



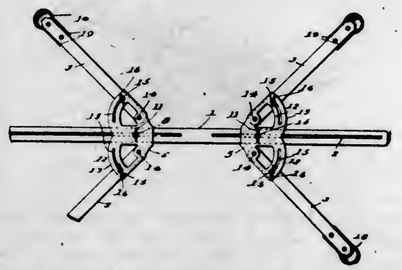
1. In an automatic fire arm the combination with a body having a sliding breech closing cover arranged thereon and operating the bolt to give it a backward and forward sliding motion, a depending hammer pivoted over the body and mechanism arranged over the body for retaining the said hammer in the cocked position against the action of its spring, said mechanism comprising spring pressed pivoted and sliding elements connected at their rear ends to a pivoted lever the end of one arm of which bears on the trigger lever.

1,350,962. HITCH FOR TWO-WHEEL TRACTORS. JESSE D. FLORY, Camden, Ohio. Filed Feb. 4, 1919. Serial No. 274,903. Renewed June 14, 1920. Serial No. 389,265. 3 Claims. (Cl. 280—33.8.)



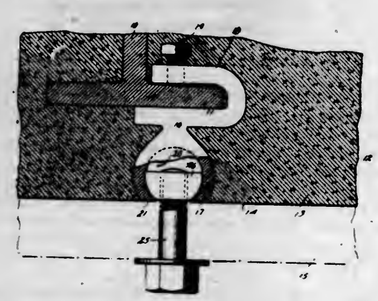
1. The combination with a two wheeled tractor, of a coupling bar, a vertically disposed worm mounted for rotation at one end of said bar, a gear rigidly mounted upon the tractor for engagement with the worm and means for pivotally connecting the coupling bar and tractor, whereby the worm and gear will control the vertical position of the opposite end of the coupling bar with respect to the forward portion of said tractor.

1,350,963. FOLDING DISPLAY-TRUCK. HENRY C. FOWLER, Johnson City, N. Y. Filed May 23, 1919. Serial No. 299,099. 2 Claims. (Cl. 280—35.)



1. In a truck of the character described, a bar longitudinally slotted, an elongated plate of substantially U-shaped formation in cross section mounted upon the bar for sliding adjustment, a bolt carried by the plate and extended through the slot in said bar, a nut associated with the bolt for holding the plate in a given position, wings projecting from the plate at opposite sides thereof, an extension bar pivoted to each wing, whereby said bars may be arranged divergently with respect to the central bar, or in parallelism therewith, a flange formed on each wing, to limit the outward movement of its associated extension bar, means for holding said extension bars fixed relatively to the first mentioned bar, and rollers carried by the outer end of said extension bars.

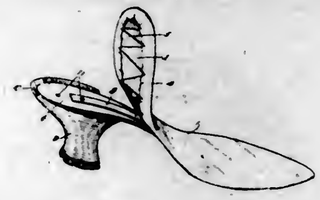
1,350,964. HANGER-BLOCK. PATRICK A. FAHEL, Bayonne, N. J. Filed Apr. 10, 1920. Serial No. 372,760. 1 Claim. (Cl. 72—105.)



The combination with a flanged beam and plastic material in which the beam is embedded, of a hanger block comprising a socket member and a U-shaped clamp integral therewith, said clamp being adapted to embrace a flange of the beam, a set screw tapped through one leg of the clamp for engagement with the flange and with the axis of the screw in direct alinement with the socket member, said socket member being disposed adjacent to the surface of the plastic material and having a restricted mouth, a nut projectable edgewise inward through said mouth and adapted to be retained within the socket member, and a clamping bolt coöperating with the nut.

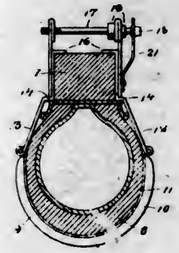
1,350,965. SLIPPER. MARCO GAETO, New York, N. Y. Filed Mar. 6, 1920. Serial No. 363,891. 4 Claims. (Cl. 36—25.)

1. As an article of manufacture, a slipper comprising an insole, a shank secured at its forward end to the under face of the insole, a heel, said shank secured to the heel, said insole secured upon the shank and upon the heel, and an outer sole located under the insole and



projecting between the forward portion of the heel and the insole.

1,350,966. ANTISKIDDING DEVICE. WILLIAM E. GLOVER, Coin, Iowa. Filed July 12, 1918. Serial No. 244,602. 1 Claim. (Cl. 151—32.)



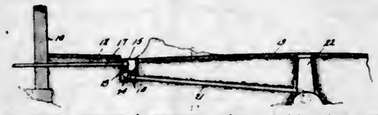
In a device for the purpose set forth, a headed bolt, a member through which the bolt passes and on which the bolt is revoluble, spaced flanges on the bolt contacting with the opposite faces of the member for sustaining the head of the bolt away from the said member, locking means for the bolt, comprising a slotted spring having an offset end which is secured to the member, the head of the bolt designed to be received in the slot of the spring and the latter being susceptible to a movement in the direction of the member to bring the same out of engagement with the head of the bolt and to permit of the turning of the bolt on the member.

1,350,967. FARM-GATE. DANIEL A. GRAY, Des Moines, Iowa. Filed Apr. 30, 1919. Serial No. 293,646. 2 Claims. (Cl. 39—82.)



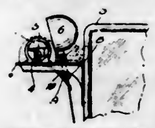
1. The combination with a hinge post having hangers, and a gate hingedly mounted at its inner end on the lower hanger; of a fork fixedly carried by the gate near its outer end, a truss rod mounted loosely within the gate body, its inner end projecting beyond the gate and hingedly engaging the upper hanger and its outer end lying normally in said fork and threaded, a nut on the threads adapted to be tightened against the fork and a yoke carried by the fork and adapted to be engaged with the rod beyond the nut.

1,350,968. SNOW-REMOVAL AND STEAM-HEATING SYSTEM. WILLIAM F. GUERIN, Brooklyn, N. Y. Filed Mar. 29, 1920. Serial No. 369,583. 1 Claim. (Cl. 237—1.)



In a snow removal system, the combination with a street, a sewer and a source of steam, of a trench formed in the gutter of said street, a steam pipe positioned in said trench, a plurality of covers over said trench adapted to be removed so that snow and ice can be thrown into said trench to be melted by the heat from said steam pipe, an oblique outlet pipe connecting the bottom of said trench with said sewer, and a steam trap on said steam pipe adapted to discharge water of condensation into said trench so that said water will mix with the water from the melted snow and run through said outlet pipe into said sewer.

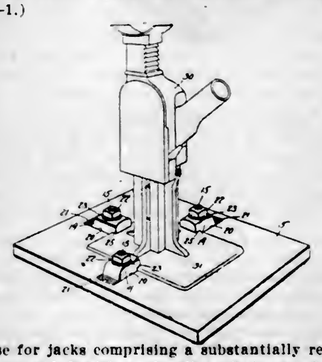
1,350,969. VEHICLE-SIGNAL. SWAN E. HALLEN, Vancouver, British Columbia, Canada. Filed Dec. 1, 1919. Serial No. 341,632. 5 Claims. (Cl. 116—43.)



1. In a signal device for vehicles, a suitably marked translucent globe mounted on a bracket base, an opaque hood having a radial lever arm pivoted on said bracket base to one side of said globe, a spring attached to said base and engaging said lever arm to maintain said hood over said globe and in contact with said base, means to operate said lever arm and raise and remove said hood from over said globe, fully exposing the same to view from front, back and side, substantially as specified.

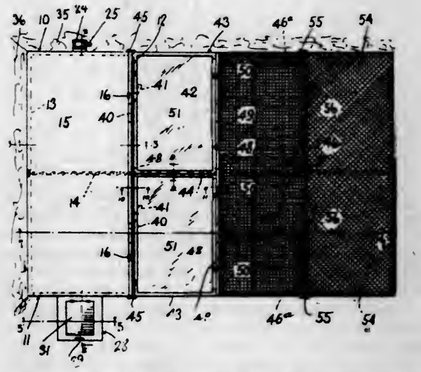
2. In a signal device for vehicles, the combination of a bracket base, a translucent globe or illuminable body suitably marked and mounted on said bracket base, to be readily discernible with internal illumination, means for internally illuminating said body, a hood adapted to cover said body in conjunction with said bracket base, and comprising an inverted cup with a radial arm, said arm being pivoted on said bracket with a free lever end, a spring engaging said free lever end of said arm to maintain said hood in a normally closed relation with said base, and an operating cord attached to said free lever end to raise said hood against the tension of said spring, substantially as specified.

1,350,970. BASE FOR JACKS. ARTHUR EDWARDS HUTCHISON and HARRY KRAH, New York, N. Y. Filed Jan. 22, 1920. Serial No. 353,259. 1 Claim. (Cl. 254—1.)



A base for jacks comprising a substantially rectangular member provided with a plurality of elongated openings, a plurality of serrations surrounding each of the openings on the top face of the base, a lug having a plurality of serrations adapted for interengagement with the serrations surrounding the openings in the base, bolts having squared portions, the square portion of said bolts being adapted to be received within the elongated openings in such a manner as to prevent turning of the bolts, said bolts passing through the lugs, and nuts adapted for engagement with the bolts whereby the lugs are adjustable relative to the base for rigidly securing a jack in position on the top face of said base.

1,350,971. BROODER. WALTER D. INSKO, Anselmo, Nebr. Filed Oct. 17, 1919. Serial No. 331,383. 2 Claims. (Cl. 119—34.)



1. A brooder having a compartmental house provided with a heating apparatus, and sets of communicating pens respectively in communication with the compartments of said house, and comprising hingedly connected side and end walls, of which the former are detachably connected with the walls of the said house, an intermediate wall detachably engaged with guides on the house wall and the end pen wall, and transverse division walls between the pens of each set removably engaged with guides on the side and intermediate walls and carrying hinged covers for the pens adjacent to the brooder house.

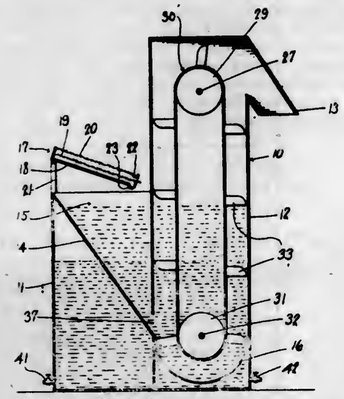
1,350,972. METHOD OF AND APPARATUS FOR POURING MOLTEN METAL. KING IRVIN and ANDREW LENNOX, Washington, D. C. Filed Oct. 8, 1919. Serial No. 329,325. 4 Claims. (Cl. 22—209.)

1. The new and useful method of pouring molten metal, which consists in disposing a mold with one wall thereof at an angle to the vertical, continuously retarding the flow



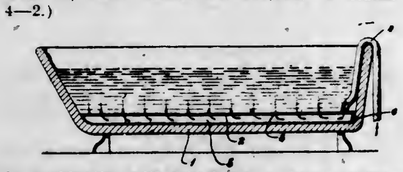
of and coincidently spreading the molten metal laterally while the molten metal is *en route* to the mold, and delivering the molten metal to said inclined wall of the mold.

1,350,973. SEED-SEPARATING DEVICE. WINFIELD S. JEFFRIES, Great Falls, Mont. Filed Dec. 27, 1919. Serial No. 347,663. 4 Claims. (Cl. 130—17.)



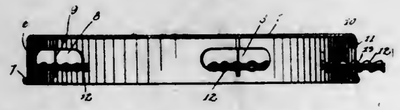
1. A device of the character described comprising a casing including a housing, a tank and a compartment located between the tank and the housing and communicating with the latter at its lower end, means mounted above said compartment for feeding into said compartment grain to be separated, a conveyer within said housing operating to remove therefrom grain sinking through a liquid in the casing, means for driving said conveyer, means driven by said conveyer driving means for operating said grain feeding means, an outlet pipe leading from said compartment, a pipe leading from said outlet pipe into said tank, means driven by said feeding means for circulating the liquid through said pipes, and screening means interposed at the juncture of said second named pipe with said first named pipe.

1,350,974. MEANS FOR AGITATING BATH-WATER. REYNOLD EUGENE KOLSHORN, Red Wing, Minn. Filed Aug. 12, 1919. Serial No. 317,014. 1 Claim. (Cl. 4—2.)



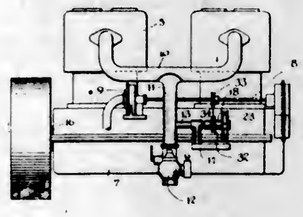
In combination with a bath tub, a casing resting on the bottom thereof and having its top perforated, baffle plates in said casing, means for introducing heated air into said casing and a door at one end of the casing.

1,350,975. TAMBOURINE. ISIDOR LEVY, New York, N. Y. Filed Apr. 16, 1920. Serial No. 374,366. 3 Claims. (Cl. 84—418.)



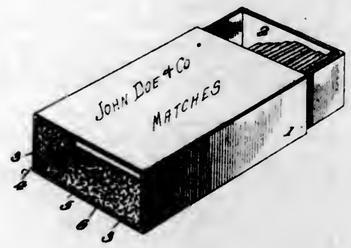
3. A tambourine comprising a body portion formed of sheet metal having an integral annular flange defining its marginal edge and provided with a plurality of cut-out portions, rigid rods rigidly secured to the flange in the cut-out portions, and a plurality of sound-producing disks reciprocatively mounted in the cut-out portions on said rigid rods.

1,350,976. AUTOMATIC FUEL-MIXTURE REGULATOR. ALVIN ALBERT LOETSCHER, Billings, Mont., assignor of one-half to George Georgilas, Billings, Mont. Filed Mar. 24, 1920. Serial No. 368,411. 7 Claims. (Cl. 123—124.)



1. In a device of the character described, an internal combustion engine, a fuel supply thereto including an intake manifold, an auxiliary air inlet pipe to said manifold having an inlet port, a sleeve rotatably mounted on said inlet pipe and having an annular recess on its inner periphery for communication with the inlet port of said inlet pipe, a disk integral with said sleeve and provided with radial openings communicating with said annular recesses and with the atmosphere and having spaced annular flanges on its periphery, a valve coöperating with the outer end of said radial opening having a curved valve stem pivoted to the flanges of the disk, means for rotating said sleeve including a pulley secured thereto and a pulley driven from the crank shaft of the engine, a retractile spring for maintaining said valve closed at low speed and permitting said valve to open at high speed, and means for adjusting the tension of said retractile spring including a lug carried by the disk, a radial arm carried by the valve and an adjusting nut and screw carried by said radial arm.

1,350,977. MATCH-BOX. MICHAEL D. MALONEY, Hadlock, Wash. Filed July 10, 1919. Serial No. 309,869. 4 Claims. (Cl. 206—36.)



1. In a match box, a main imperforate casing open at its ends and having one of its walls provided on its inner side with abrasive material, and a slidable tray fitting in the main casing and normally covering and protecting the abrasive material, said abrasive material engaging the tray for preventing accidental opening of the same.

1,350,978. CLOTHESPROP. JONAS J. MECKLING, Jr., Pittsburgh, Pa. Filed Nov. 13, 1919. Serial No. 337,671. 1 Claim. (Cl. 68—12.)

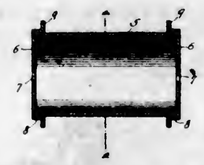
A clothes line holder comprising a bar perforated at its end, a resilient wire bent at the end to form eyes in

alinement with each other and medially bent into a pair of clip coils with spring coils between said clip coils



and said eyes, said bar fitting between said eyes, and a bolt passing through said eyes and perforations.

1,350,979. SPOOL. ARTHUR HENRY SCHLOERB, New York, N. Y. Filed May 29, 1919. Serial No. 300,561. 1 Claim. (Cl. 242—119.)



An article of manufacture such as a thread core or spool made of paper, comprising a paper tube open at each end, a paper cap anchored on each end of the tube, a rim integrally formed with each cap made to engage and bind the end of the paper tube, and a rim turned up to form a flange providing a thread-retaining core.

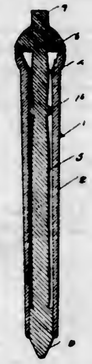
1,350,980. PURSE. WILLIAM STONE, New York, N. Y. Filed Feb. 18, 1920. Serial No. 359,683. 1 Claim. Cl. 150—37.)



A bag comprising a body, a frame connected with said body formed in two parts hinged together, one of said parts having an aperture therein, an integral flange extending from said part adjacent said aperture, said flange being formed with a turned up edge, a socket member secured to the part having said aperture, said socket member having the open end facing said aperture, and means in the socket for urging the coins toward said turned up section of said flange.

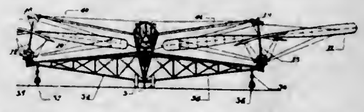
1,350,981. RECTAL TUBE. JACOB K. WILKENS, Muscatine, Iowa. Filed Mar. 28, 1919. Serial No. 285,754. 1 Claim. (Cl. 128—263.)

A medicament applicator comprising a tubular member having an exterior conical surface and an interior cylindrical surface, said member being provided at its larger end with a diametrically enlarged funnel shaped flange, a rod provided at one end with an enlarged cone shaped head adapted to fit snugly in the bore of the tubular member, the diameter of the body portion of the rod being less than the diameter of the bore of the tubular member, said rod being provided at a point between its ends with an annular rib adapted to fit snugly within the bore of the tubular member, said rod being provided at that



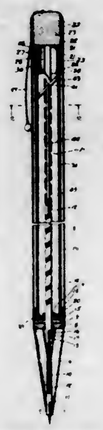
end opposite the end at which the conical head is located with an enlarged annular flange adapted to engage over the edge of the funnel shaped flange which is provided at the end of the tubular member.

1,350,982. FLYING-MACHINE WITH REVOLVING WINGS. ALÉXIS BEURRIER, EDOUARD BIGOURDAN, and LOUIS LACOIN, Paris, France. Filed Mar. 24, 1917. Serial No. 157,236. 3 Claims. (Cl. 244—19.)



1. The combination with a flying machine having revolving wings in the form of screw propellers mounted on separate axes, of a controlling apparatus comprising a member which is non-rotatable relatively to the propeller shaft but capable of inclination relatively to said shaft and capable of movement parallel thereto, a lever one end of which controls the inclination of the vane and rotates therewith engaging in said member.

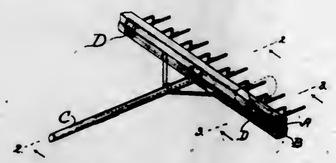
1,350,983. PENCIL. HORACE LYMAN BLACKMAN, Janesville, Wis. Filed Sept. 5, 1919. Serial No. 321,884. 8 Claims. (Cl. 120—18.)



1. A pencil comprising a barrel having a tapered end, a lead-holder rigidly secured to said tapered end, a sleeve

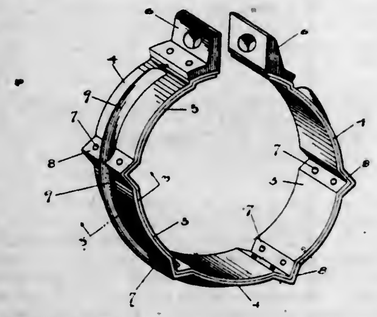
rotatably mounted in said barrel, and a second sleeve carried by the first-mentioned sleeve, said second-mentioned sleeve having an elongated cross sectional form to provide a lead-retaining space between itself and the first-mentioned sleeve.

1,350,984. CAN-HANDLING DEVICE. MARTIN R. BLANK and LOUIS F. SITKIEWITZ, Thiensville, Wis. Filed Mar. 22, 1920. Serial No. 367,647. 13 Claims. (Cl. 294—87.)



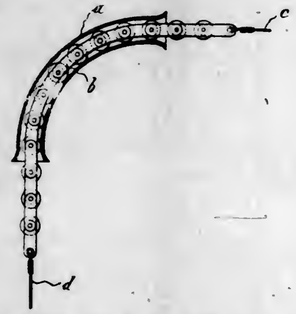
1. A can lifting device provided with a row of pins designed for insertion in the open ends of a plurality of cans, fingers corresponding in number with the pins, and means for engaging the fingers with the exterior of the cans.

1,350,985. BRAKE-BAND. JOHN P. BOND, Portland, Oreg. Filed June 16, 1919. Serial No. 304,722. 1 Claim. (Cl. 188—259.)



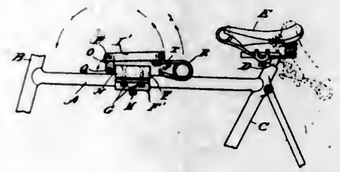
A brake band; transversely indented portions in said band; a longitudinally indented portion in said band connecting said transversely indented portions; a flexible lining; and rivets adapted to secure portions of said lining within said transversely disposed indented portions.

1,350,986. ARRANGEMENT OF FLEXIBLE MEMBERS. RENÉ CAUDRON, Issy-les-Moulineaux, France. Filed Apr. 30, 1919. Serial No. 293,780. 2 Claims. (Cl. 64—30.)



1. In a flexible motion transmitting mechanism the combination of a rigid curved tube, a link chain passing through said tube for joining two sections of a flexible control member, and rollers mounted on the link pins of said chain and protruding beyond the sides of the chain so as to prevent the links of the chain from coming into frictional contact with said tube.

1,350,987. CHILD'S BICYCLE-SEAT. VERNER A. CHERRY, Granite City, Ill. Filed Nov. 21, 1919. Serial No. 339,763. 6 Claims. (Cl. 208—24.)



1. A device of the character described comprising a supporting member, a horizontal seat in two parts, independent parallel pivots for the adjacent portions of each part for vertical adjustment of said seat, strap connections for said pivots, and a hinge connection between one of said straps and the supporting member.

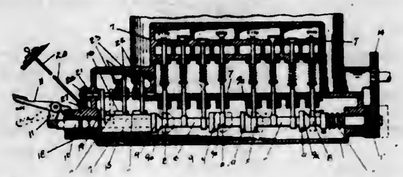
1,350,988. FEED-WATER-SUPPLY APPARATUS FOR STEAM-GENERATORS. THOMAS CLARKSON, Chelmsford, England. Filed Sept. 4, 1918. Serial No. 252,620. 4 Claims. (Cl. 103—99.)



1. In apparatus for regulating the feed water supply of steam generators the combination of a steam generator, a feed water pump, a rockshaft extending through the wall of the pump casing adjacent to the suction valve of the pump, a lever mounted on the rockshaft within the pump casing and adapted to lift the suction valve off its seat when the shaft is rocked, mechanism to which movement is imparted by variations in the level of the water in the steam generator, means by which the movements of this mechanism are communicated to and rock the shaft, mechanism by means of which axial movement is imparted intermittently to the rockshaft in one direction, and a spring operative to move the rockshaft in the opposite direction as set forth.

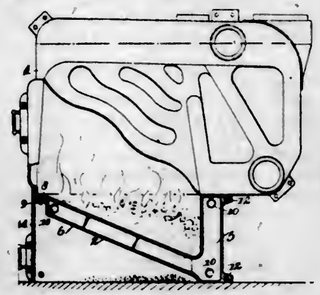
1,350,989. LOCK. ALLEN E. COX, Portland, Oreg., assignor of one-fourth to Joseph C. Allen and one-fourth to Ross C. Evans, Portland, Oreg. Filed Apr. 10, 1919. Serial No. 289,145. 5 Claims. (Cl. 251—6.)

1. In an internal combustion motor, exhaust valves; a cam shaft; exhaust valve cams upon said shaft; cams upan said shaft adjacent said exhaust valve cams; means to move said shaft longitudinally to bring said latter cams into coaction with said exhaust valves for the purpose of simultaneously opening the same and holding them open during rotation of said shaft; a nonrotatable sleeve within which said shaft is rotatably mounted; a notched



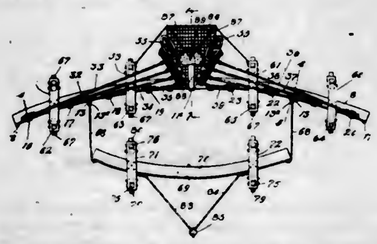
spline upon said sleeve; a shaft mounted adjacent and parallel to said sleeve; notched disks freely mounted upon said latter shaft; means to rotate said latter shaft; and means mounted upon said latter shaft to rotate said disks independently therefrom.

1,350,990. FURNACE-GRATE. MADISON THENTON DAVIS, Jr., Charleston, W. Va., assignor to Kanawha Manufacturing Company, Charleston, W. Va., a Corporation of West Virginia. Filed Dec. 27, 1918. Serial No. 268,519. 1 Claim. (Cl. 122—232.)



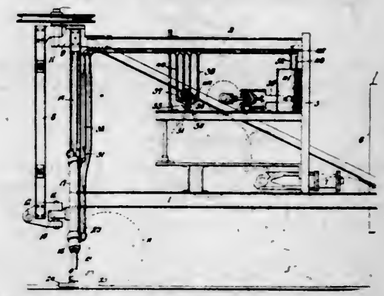
In a furnace, a grate consisting of hollow end sections with depressions to form flanges, a front plate secured to said flanges and covering the ash pit, a plurality of intermediate sections consisting of vertical hollow rear branches and forwardly and upwardly inclined bottom branches, said bottom branches having depressions on one side to form ash openings when the sections are fitted together, nipples securing the various sections together and affording water communication therebetween, a foot formed on the upper end of each bottom section, and stay bolts passing through portions of all of the sections, one of the stay bolts passing beneath the feet and offering additional support.

1,350,991. ROAD-SCRAPER. CHARLES M. DICUS, Mill Spring, N. C. Filed May 6, 1919. Serial No. 295,048. 6 Claims. (Cl. 37—5.)



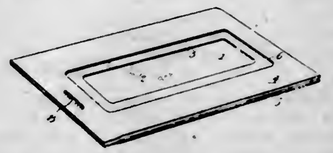
1. A road scraper comprising a supporting frame, a plurality of scraper blades mounted upon said supporting frame and disposed end to end, a rack connected with each scraper blade and extending upwardly therefrom, a pinion for each rack, a number of shafts each carrying one of said pinions, said shafts leading toward an approximate central position, and mechanism connected with all of said shafts to enable the operator located in said position to actuate all of said shafts simultaneously.

1,350,992. MEANS FOR LEVELING AND STAYING EXCAVATING-MACHINES. ROBERT M. DOWNIE, Beaver Falls, Pa., assignor to Keystone Driller Company, Beaver Falls, Pa., a Corporation of Pennsylvania. Filed Feb. 7, 1919. Serial No. 275,570. 15 Claims. (Cl. 212—145.)



1. In an excavating machine, means for righting the machine when tipped sidewise comprising stay devices on opposite sides of the machine each with hydraulic means simultaneously active to both stay devices to move them into engagement with the surface upon which the machine is resting, and means for causing a compensating distribution of pressure in the hydraulic means in opposition to the sidewise inclination of the machine.

1,350,993. ADDRESS-STENCIL. GUY J. EVANS, Buffalo, N. Y. Filed Oct. 18, 1915, Serial No. 56,394. Renewed Feb. 27, 1920. Serial No. 361,724. 1 Claim. (Cl. 101—127.)

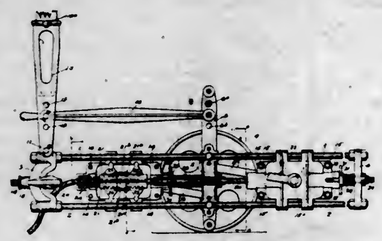


The combination, with a stencil sheet or blank adapted to be stencilized having a comparatively thin surrounding frame of a flexibility sufficient to enable it to be easily shaped to the curvature of a typewriter platen roll, of a second, rectangular, double-thickness frame of stiff material having a face opening substantially corresponding to the outline of the inner margin of the first mentioned frame, and an edge opening or slit large enough to permit the insertion and withdrawal of the first frame and attached stencilized sheet.

1,350,994. STUMP-PULLER. JOHN F. GORMAN, Seattle, Wash. Filed Dec. 29, 1916. Serial No. 139,663. 13 Claims. (Cl. 254—76.)

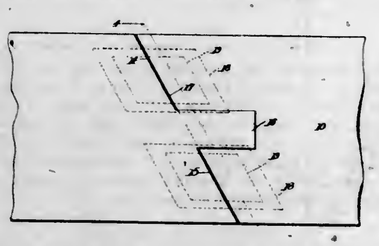
1. In a device of the character referred to, in combination, a rigid frame structure having spaced parallel guides thereon, a pair of gripping elements movable thereon, an operating lever pivoted on said rigid frame structure therebetween and connected therewith to move said elements toward and from each other on said frame structure, gripping mechanisms in each of said gripping ele-

ments movable toward and from each other, and adapted to grip the opposite sides of a pulling element extending from one gripping element to the other, and means for



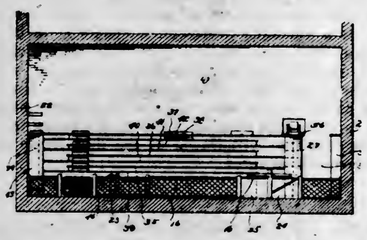
automatically moving said gripping mechanisms into and out of gripping action as said gripping elements are moved in opposite directions on said main frame.

1,350,995. VEHICLE-TIRE. HANS E. GRABAU, Long Island City, N. Y., assignor to A. Charles Schwartz, New York, N. Y. Filed Oct. 10, 1916. Serial No. 124,889. 10 Claims (Cl. 152—13.)



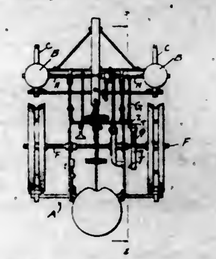
1. A vehicle tire including a strip of belt fabric extending circumferentially, means for connecting the ends of said strip, including a tongue on one end overlapped on the other end, from the base of the tongue to the edge of the strip being cut on the bias, and a cover strip connecting the ends of the joint and arranged on the interior of the belt strip on each side of the tongue and of less width than the portion cut on the bias.

1,350,996. SELF-SERVING STORE. HENRY C. HARVEY, Huntington, W. Va. Filed Oct. 16, 1918. Serial No. 258,346. 7 Claims. (Cl. 211—8.)



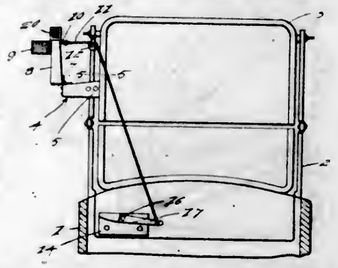
1. A merchandising apparatus having a series of parallel merchandise exhibitors staggered laterally of the series, the successive exhibitors increasing in height with a resultant possible view of the upper portions of all of them throughout their lengths, from a common point in a direction at right angles to the exhibitors, whereby to display from such common point the characters of goods contained by the exhibitors.

1,350,997. TAPPET-WHEEL FOR PLANTERS. CLINTON LEROY HEATH, Leslie, Mo. Filed Nov. 24, 1919. Serial No. 340,108. 2 Claims. (Cl. 74—1.)



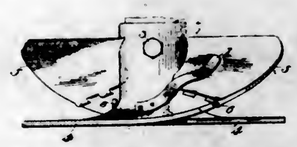
1. A tappet wheel for planters comprising an inner and outer rim co-axially mounted with one of said rims fast to the axle of the planter and adapted to rotate therewith, lever-operated means for connecting and disconnecting said rim with the other of said rims in driving relation, and axially projecting tappets on the second rim having disks thereon overlying the sides of said first rim to prevent lateral displacement of said rims relative to one another.

1,350,998. AUTOMOBILE-SIGNAL. CHARLES J. HUGHES, Summerville, S. C. Filed Feb. 28, 1917. Serial No. 151,491. 1 Claim. (Cl. 116—54.)



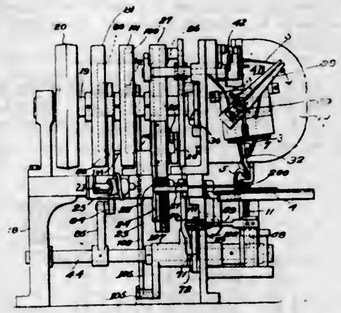
An automobile signal comprising an arm of substantially rectangular shape in cross section and gradually tapering from one end in the direction of its other end and having its largest end secured to an automobile, said arm including movable and non-movable sections and said movable section being of a greater length than the non-movable section, a hinge secured to the upper faces of said sections so that said sections may have end abutting engagement with each other when in one position and to allow said movable section to be disposed vertically and at right angles to the non-movable section when in another position, a signal secured to the movable section, and an operating means connected to the movable section.

1,350,999. PACKING-AUGER. OLTRON R. HYLAND, Astoria, Oreg. Filed May 29, 1919. Serial No. 300,680. 1 Claim. (Cl. 100—56.)



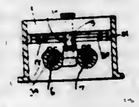
A packing auger comprising in combination with the hub and the packing vanes, of a movable portion or gate hinged to the upper end of each vane and adapted to close down in lapping relation upon the other vane to close the space between the vanes, each movable portion or gate having its free end up-curved to lie out of engagement with the other vane when the gate is closed to be engaged by the material to be packed to lift the gate, and a spring secured to each vane and engaging the adjacent gate or movable portion to limit the upward movement thereof to a position where such gate or movable portion is in substantial alinement with the vane.

1,351,000. TAG-STRINGING MACHINE. LAWRENCE A. MCGRATH, Winthrop, Mass., assignor of four-sixteenths to Michael F. Cunningham, Randolph, Mass., and two-sixteenths to William H. Dennehy, Brockton, Mass. Filed Dec. 6, 1918. Serial No. 265,605. 27 Claims. (Cl. 93—91.)



2. In a tag-stringing machine, the combination with means to insert a loop of string through the eye of a tag and around the end thereof, a loop retainer to engage said loop, a pull-down device to act on the string between the tag and the loop retainer and draw an added length of string through the eye of the tag, and means to draw the ends of the string through the loop thereof.

1,351,001. TRANSMISSION-LOCK FOR AUTOMOBILES. JAMES MALCOLM, Holyoke, Mass. Filed Jan. 16, 1919. Serial No. 271,549. 2 Claims. (Cl. 70—126.)



1. The combination with a transmission gear shaft including an operating rod, a vertical locking rod adapted to lock said operating rod against movement, said vertical rod being provided with a notch, a housing inclosing said vertical rod, a case detachably fitted in said housing, a locking mechanism in said case having a lug adapted to enter the notch of the vertical rod, and a bar carried by said case and shiftable by said mechanism to lock said case in said housing when the bolt is in locking engagement with said vertical rod.

1,351,002. PERFORATING-RULE. HENRY S. MILLER, Washington, D. C. Filed Mar. 22, 1919. Serial No. 284,458. 2 Claims. (Cl. 164—98.)



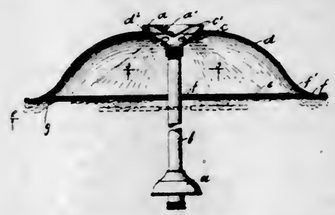
1. A device of the type described including a perforating rule provided with depending posts having laterally extending studs, said posts and studs being adapted to engage a printing plate-holder base, and slots therein, respectively.

1,351,003. WELL-DRILLING BIT FOR OIL, WATER, OR GAS. JEFFERSON D. PACE, Shreveport, La., assignor to Acme Oil & Drill Co., Inc., Shreveport, La., a Corporation of Louisiana. Filed July 19, 1919. Serial No. 312,024. 4 Claims. (Cl. 255—72.)



1. In a well drilling tool, a hollow drill rod, a coupling sleeve screwed upon the lower end of the drill rod, a block received within and screwed to the sleeve but spaced from the end of the drill rod, said block having a flared extension at its lower end, said extension having a circumferential series of slots, bits held upon the tool, said bits having beveled edges conforming to the flare of the extension, lateral extensions on each bit and adapted to fit said slots for holding the bits against longitudinal movement, said coupling sleeve being internally beveled to coöperate with the beveled edges of the bits to hold the bits in clamped position with their lateral extensions received within the slots.

1,351,004. GAS-HEATER. JACOB I. ROBIN, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,078. 13 Claims. (Cl. 126—248.)

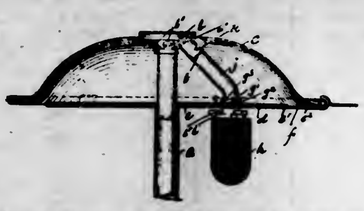


1. In a gas heater, the combination with a bunsen, of a manifold burner having downwardly directed jet openings, a bell, and a perforated surface extending substantially through the entire area of the mouth of said bell and adapted to intersect the gas currents, so as to cause complete combustion of the gas mixture and produce thereby blue flames on the outer face of said perforated surface.

1,351,005. GAS-HEATER. JACOB I. ROBIN, New York, N. Y. Filed Jan. 17, 1920. Serial No. 352,112. 4 Claims. (Cl. 126—248.)

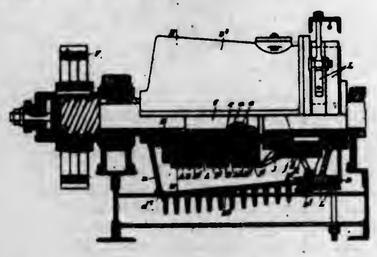
1. A gas heater comprising a manifold burner tube, a heat bell, an adjustable perforated bottom closing the mouth of said bell, a tubular member extending from and secured to said bottom and adapted by the adjustment of the latter to be brought in register with any one of

the burner openings of said manifold burner and serving to support an incandescent mantle so that a part of the



gas mixture issuing from the manifold will flow into said mantle to produce an incandescent light.

1,351,006. MULTIPLE-DISK BRAKE. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Sept. 10, 1918. Serial No. 253,458. 6 Claims. (Cl. 188—72.)



1. In a multiple disk brake, a shaft, a series of disks operatively connected therewith, a second series of disks alternating with the disks of said first series, interlocking peripheral projections on the disks of said second series, and a relatively stationary casing for said disks separate therefrom.

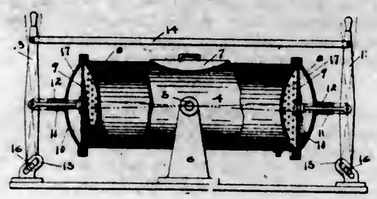
1,351,007. DISPLAY-STAND. SAMUEL TUTTLE SHEPHARD, Albany, N. Y. Filed Feb. 19, 1919. Serial No. 277,937. 4 Claims. (Cl. 211—24.)



1. A display stand for holding canes, umbrellas or like articles, comprising a base member provided with a vertically disposed recess, flexible thin, flat clamping members mounted in the bottom wall of the recess and extending upwardly above the open end of the same and there flared outwardly to form an entrance opening between the same, means for constraining the members toward each other, and a plurality of counterbores of diminishing diameters communicating with the bottom of the recess for receiving the ends of said articles.

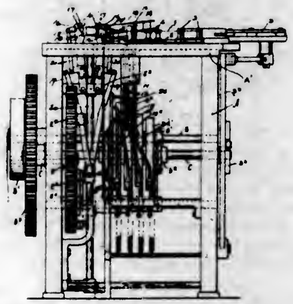
1,351,008. WASHING-MACHINE. WILLIAM M. SIMPSON, Portland, Oreg., assignor of one-half to Woo Lai Sun, Portland, Oreg. Filed May 27, 1919. Serial No. 300,217. 2 Claims. (Cl. 141—9.)

1. In a washing machine: a container; perforated diaphragms at each end of said container; housings upon each end of said container outside said perforated diaphragms; reciprocating shafts mounted within said housings; pumping means upon the inner ends of said shafts;



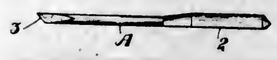
levers connected to the outer ends of said shafts; and means whereby the operation of said levers will oscillate said container.

1,351,009. AUTOMATIC MACHINE FOR MAKING FRAMES FOR WREATHS. CHARLES SMITH, Providence, R. I. Filed Apr. 15, 1919. Serial No. 290,342. 7 Claims. (Cl. 140—71.)



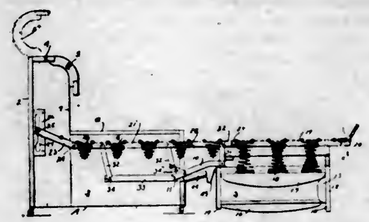
5. In a machine for making wreaths in which a plurality of wires are fed through the machine to form a skeleton frame body, the combination therewith of means for feeding a cross wire at right angles substantially to and below said first named wires, means for cutting from the free end of said cross wire successively pieces of predetermined length; vertically reciprocating laterally separable V-shaped jaws, a vertically reciprocating V-shaped die operating between said jaws, a vertically reciprocating spreader alined with said die and operating between said jaws and in opposition to said die, vertically reciprocating members positioned one at the side of each jaw and parallel therewith and means for actuating the whole to thereby bend said wire pieces around the wires of the frame body into cross braces for the latter.

1,351,010. RIPPING-NEEDLE. MARY V. BELL, Oakland, Calif. Filed Oct. 13, 1919. Serial No. 330,421. 1 Claim. (Cl. 164—17.5.)



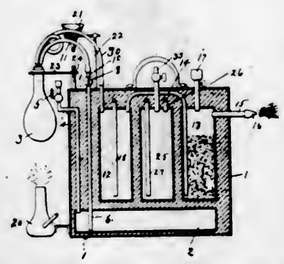
A seam ripping needle for sewing machines having a shank, a head on one end of the shank for attachment to the reciprocating member of a sewing machine, and a single pointed continuous cutting edge on the other end of the shank, said cutting edge being disposed at an angle to the longitudinal axis of the needle and formed to cut the thread only upon downward movement of the reciprocating member and to sever the parts of the thread lying on the surfaces of the material.

1,351,011. DAVENPORT-BED. MARK L. BRILLIANT, San Francisco, Calif., assignor of one-half to Charles E. Brinkman, San Francisco, Calif. Filed Aug. 5, 1918. Serial No. 248,392. 5 Claims. (Cl. 5—51.)



1. A davenport comprising a fixed main frame, a seat section on said frame, a pair of swinging arms between which said seat section is pivotally mounted on the main frame, a mattress frame secured on the lower side of said seat, an intermediate frame connected with one end thereof, an inner frame connected to the intermediate frame, means actuated by unfolding of the seat section for raising the intermediate and the inner frame into alinement with the first frame secured to the seat, a head board pivotally connected to the inner end of the inner frame, and means guidingly engaging the outer end of the head board to allow same to slide vertically, said means being formed to engage said outer end of the head board and to support same at an incline upon the mattress frame reaching a horizontal position.

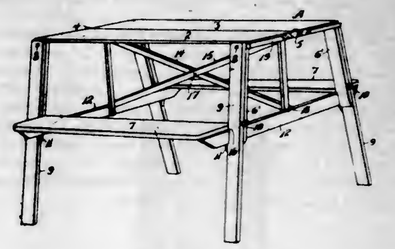
1,351,012. ATOMIZER. ANDERSON MANSFIELD HOLMES, Baltimore, Md., assignor, by direct and mesne assignments, of fifteen one-hundredths to Marie Smith, fifteen one-hundredths to Annie L. Fisk, nineteen one-hundredths to Oscar I. Woodley, eighteen one-hundredths to William F. Metcalf, and thirty-three one-hundredths to Edward L. Torsch. Filed Aug. 27, 1919. Serial No. 320,109. 3 Claims. (Cl. 128—192.)



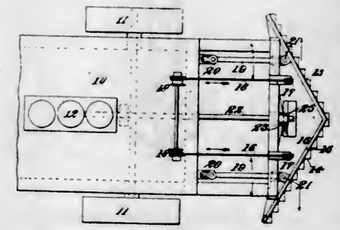
1. An atomizer comprising a boiler, a condensing chamber having communication with said boiler, a pipe within said condensing chamber having one end terminating near the bottom and the other end projecting through the wall of said condensing chamber near the top thereof, a second condensing chamber having communication with the first-named condensing chamber, and an outlet for said second condensing chamber and having a nozzle secured thereto.

1,351,013. FOLDING FURNITURE. GEORGE R. STINE, Los Angeles, Calif. Filed Oct. 13, 1919. Serial No. 330,443. 8 Claims. (Cl. 45—116.)

3. A combination folding table and seats comprising a pair of table top sections, a pair of hinges disposed one at each end of said sections and centrally connecting the same, a pair of hangers hingedly secured to each table top section and disposed at each end thereof, said hangers being foldable in under the table top sections, a seat pivotally mounted between each pair of hangers, and a leg pivotally attached at its upper end to each haanger.



1,351,014. METHOD AND APPARATUS FOR TRIMMING IRRIGATION AND DRAINAGE DITCHES. FLETCHER A. WHITAKER, Stockton, Calif. Filed Oct. 2, 1919. Serial No. 327,906. 7 Claims. (Cl. 56—25.)



1. An apparatus for trimming weeds and other vegetable growth from the sides of a ditch comprising a carriage to traverse the length of the ditch, a cutter arranged on the carriage in position over the ditch, said cutter being provided with cutting members at opposite sides and means to reciprocate the cutter laterally whereby to cut the weeds first on one side and then on the other, said cutting members being effective to cut only during their movement away from the ditch.

5. An apparatus for trimming weeds and other vegetable growth from the sides of a ditch which comprises a carriage to transverse the length of the ditch, a cutter substantially in the form of a forwardly pointed V in plan, both sides of which are provided with cutting edges, means to reciprocate the cutter laterally whereby to cut the weeds first on one side and then on the other side of the ditch, said cutting edges being effective to cut only during their movement away from the ditch, and an upstanding shield on the cutter adjacent each cutting edge to cause the weeds to be carried away from the ditch.

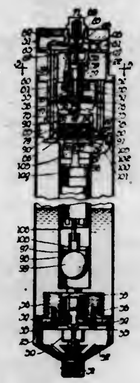
REISSUES.

14,935. PUMP AND PUMPING SYSTEM. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 1, 1919. Serial No. 341,886. Original No. 1,253,559, dated Jan. 15, 1918, Serial No. 52,808, filed Sept. 27, 1915. 42 Claims. (Cl. 103—8.)

1. In a pump, a liquid chamber having inlet and outlet means, an exhaust passageway, a pressure medium passageway, a pressure motor, a valve mechanism operated by said pressure motor to control the connection of said chamber with said passageways, means controlling the con-

nection of pressure to and exhaust from said pressure motor, a water chamber having an inlet at the top and an outlet at the bottom, and a level controlled device in said water chamber mechanically connected with said controlling means.

2. In a pump, a liquid chamber having inlet and outlet means, an exhaust passageway, a pressure medium passageway, a pressure motor, valve mechanism operated by said pressure motor to control the connection of said chamber with said passageways, means controlling the connection of pressure to and exhaust from said pressure motor, a water chamber within said liquid chamber having an inlet at the top and an outlet at the bottom, and a level controlled device in said water chamber mechanically connected with said controlling means.

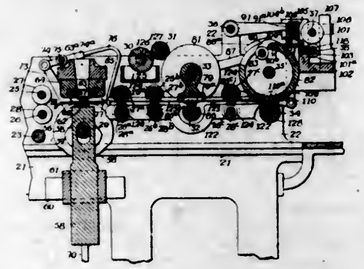


3. In a pump, a liquid chamber having inlet and outlet openings, an exhaust passageway, a pressure medium passageway, pressure means having one side arranged to be exposed to the pressure medium and its other side exposed to a motor chamber having two ports, one port an exhaust port and the other a pressure medium port, valves operated by said pressure means for closing said pressure medium port of said liquid chamber and opening said exhaust port of said liquid chamber, and vice versa, and valves for closing said pressure medium port of said motor chamber and opening said exhaust port of said motor chamber, and vice versa, and means for operating said last named valves.

4. In a pump, a liquid chamber having inlet and outlet openings, an exhaust passageway, a pressure medium passageway, pressure means having one side arranged to be exposed to the pressure medium and its other side exposed to a chamber having two ports, one port an exhaust port and the other a pressure medium port, valves operated by said pressure means for closing said pressure medium port of said liquid chamber, and opening said exhaust port of said liquid chamber, and vice versa, and valves for closing said pressure medium port of said motor chamber and opening said exhaust port of said motor chamber, and vice versa, and float means for operating said last named valves.

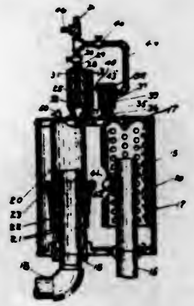
5. In a pump, a water chamber having inlet and outlet openings, an exhaust port for said chamber, a compressed air port for said chamber, pressure means having one side exposed to the interior of said water chamber and its other side exposed to a motor chamber having two ports, one port an exhaust port and the other a compressed air port, valves operated by said pressure means for closing said compressed air port of said water chamber and opening said exhaust port of said water chamber, and vice versa, and valves for closing said compressed air port of said motor chamber and then opening said exhaust port of said motor chamber, and vice versa, and means for operating said last named valves.

14,936. MACHINE FOR MAKING WINDOW-ENVELOP BLANKS. SAMUEL FURMAN, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed Feb. 23, 1918. Serial No. 218,909. Original No. 1,182,364, dated May 9, 1916, Serial No. 31,484, filed June 1, 1915. 16 Claims. (Cl. 93—61.)



4. A machine for making window envelop blanks, comprising means for feeding successive blanks, said feeding means including a pair of disks having recessed portions adapted to discontinue momentarily the movement of each blank, positive means for intercepting each blank during the period of the discontinuance of its movement by said disks, and means for cutting a window opening in each blank while so intercepted.

14,937. AIR-LIFT SEPARATOR-PUMP. ORAN M. PRUITT, Indianapolis, Ind., assignor to Indiana Air Pump Company, Indianapolis, Ind., a Corporation of Indiana. Filed July 19, 1917. Serial No. 181,619. Original No. 1,214,951, dated Feb. 6, 1917, Serial No. 93,635, filed Apr. 26, 1916. 22 Claims. (Cl. 103—84.)



1. An airlift separator pump, comprising an airlift pump having an eduction pipe, a separating chamber into which said eduction pipe discharges, said separating chamber having an outlet for permitting escape of air from the upper part thereof, a water outflow pipe leading from said chamber, and a float-controlled valve controlling the inlet to said water-outflow pipe, said float-controlled valve moving toward open and closed positions upon rise and fall respectively of the water level in said separating chamber.

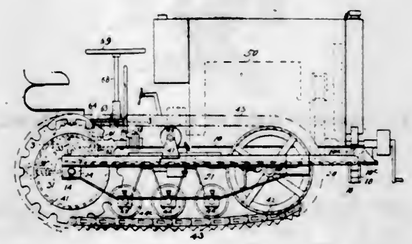
2. An airlift separator pump, comprising an airlift pump having an eduction pipe, a separating chamber into which said eduction pipe discharges, said separating chamber having an outlet for permitting escape of air from the upper part thereof, a water outflow pipe leading from said chamber, and a float-controlled valve controlling the inlet to said water-outflow pipe.

3. An airlift separator pump, comprising an airlift pump having an eduction pipe, a separating chamber into which said eduction pipe discharges, said separating chamber having an outlet for permitting escape of air from the upper part thereof, a water outflow pipe having its intake end projecting upward into said separating chamber, a bell surrounding the intake end of said water-outflow pipe, said bell being provided with a water-admitting slot wider at the top than at the bottom, a cut-off ring slidable on said bell to variably open and close said slot, and a float carrying said cut-off ring and movable upon change in water level in said separating chamber to vary the position of said cut-off ring and the effective size of opening of said slot.

4. An airlift separator pump, comprising an airlift pump having an eduction pipe, a separating chamber into which said eduction pipe discharges, said separating chamber having an outlet for permitting escape of air from the upper part thereof, a water-outflow pipe having its intake end projecting upward into said separating chamber, a bell surrounding the intake end of said water-outflow pipe, said bell being provided with a water admitting slot, a cut-off ring slidable on said bell to variably open and close said slot, and a float carrying said cut-off ring and movable upon change in water level in said separating chamber to vary the position of said cut-off ring and the effective size of opening of said slot.

5. An airlift separator pump, comprising an airlift pump having an eduction pipe, a separating chamber into which said eduction pipe discharges, a water-outflow pipe leading from said chamber, a shell mounted on the top of said separating chamber and having a water-return pipe leading therefrom into said separating chamber below the minimum water level therein and also having a passage leading from the top of said separating chamber tangentially into the upper part of said shell, an air-escape pipe projecting into the middle of said shell, and a valve controlling the effective size of said air-escape pipe.

14,938. TRACTOR. ROLLIN H. WHITE, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Dec. 6, 1919. Serial No. 343,093. Original No. 1,253,319, dated Jan. 15, 1918, Serial No. 137,964, filed Dec. 20, 1916. 21 Claims. (Cl. 180—9.2.)



1. In a tractor, the combination of two alined driving shafts, differential gearing therebetween which includes a differential drum having elongated oppositely extended tubular hubs in which said driving shafts are rotatably mounted, means for rotating said differential drum, and means whereby either driving shaft may be positively turned in its bearings in the associated drum hub in the same direction as that in which the said drum is turning and whereby the other driving shaft will be positively turned in its bearings in the associated drum hub but in the opposite direction to that in which the drum is turned.

DESIGNS.

56,113. TIRE-TREAD. MAURICE L. A. A. ALLARD, Akron, Ohio, assignor to W. H. Millikan, Cleveland, Ohio. Filed Apr. 6, 1920. Serial No. 371,778. Term of patent 14 years.



The ornamental design for a tire tread as shown.

56,114. KAZOO. LOUIS V. ARONSON, Newark, N. J. Filed Sept. 25, 1919. Serial No. 326,403. Term of patent 3½ years.



The ornamental design for a kazoo, as shown.

56,115. BADGE, BUTTON, OR EMBLEM. CHARLES A. BERKEY, Highland Park, Mich. Filed Dec. 15, 1919. Serial No. 345,142. Term of patent 14 years.



The ornamental design for a badge, button, or emblem as shown.

56,116. KEY-RING. LOUIS J. BERRY and HARLEY SMITH, Yale, Okla. Filed Feb. 27, 1920. Serial No. 361,660. Term of patent 14 years.



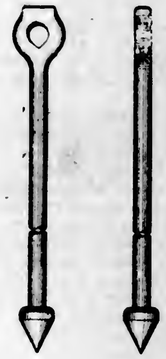
The ornamental design for a key ring, as shown.

56,117. PHONOGRAPH-CABINET. GEORGE W. BRISTOL, Syracuse, N. Y., assignor of one-half to Nils G. Jensen, Syracuse, N. Y. Filed June 14, 1920. Serial No. 389,026. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

56,118. ANCHOR-ROD. ALBERT B. CHANCE, Centralia, Mo. Filed Nov. 22, 1919. Serial No. 339,954. Term of patent 14 years.



The design for an anchor rod substantially as shown and described.

56,119. FOOD-MASHER. BENJAMIN F. CRISENBERRY, Indianapolis, Ind. Filed June 18, 1920. Serial No. 390,040. Term of patent 14 years.



The ornamental design for a food masher, as shown.

56,120. HATBAND. JULES HENRI DE SIBOUR, Washington, D. C. Filed Mar. 31, 1920. Serial No. 370,355. Term of patent 7 years.



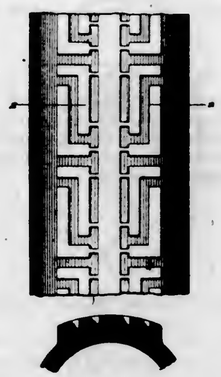
The ornamental design for a hat band, as shown.

56,121. PILLOW TOP OR ARTICLE OF SIMILAR NATURE. MAX D. DREYFACH, New York, N. Y. Filed May 29, 1919. Serial No. 300,739. Term of patent 3½ years.



The ornamental design for an article of manufacture, namely a pillow top or article of similar nature, as shown.

56,122. TIRE. VICTOR EHRLICHER, Brooklyn, N. Y., assignor to Charles William Stores, Inc., a Corporation of New York. Filed Dec. 10, 1919. Serial No. 343,925. Term of patent 14 years.



The ornamental design for a tire as shown.

56,123. SWIMMING-CAP. WALTER D. FORBES, Oakland, Calif. Filed June 24, 1918. Serial No. 241,713. Term of patent 14 years.



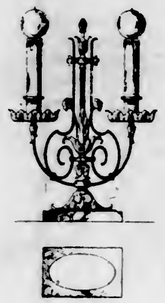
The ornamental design for a swimming cap, as shown.

56,124. ELECTRIC CANDLESTICK. FREDERICK A. FREICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,329. Term of patent 3½ years.



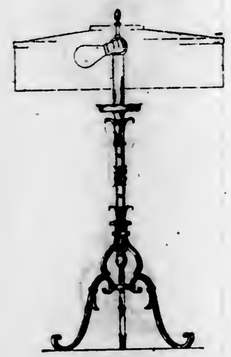
The ornamental design for an electric candlestick, as shown.

56,125. ELECTRIC CANDELABRUM. FREDERICK A. FREICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,330. Term of patent 3½ years.



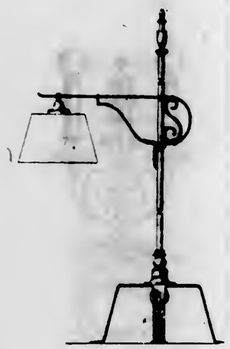
The ornamental design for an electric candelabrum, as shown.

56,126. ELECTRIC FLOOR-LAMP. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,332. Term of patent 3½ years.



The ornamental design for an electric floor lamp, as shown.

56,127. ELECTRIC BRIDGE-LAMP. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,333. Term of patent 3½ years.



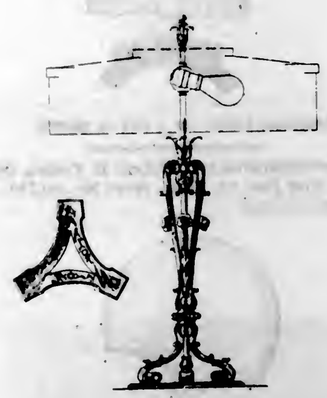
The ornamental design for an electric bridge lamp, as shown.

56,128. ELECTRIC BRIDGE-LAMP. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,334. Term of patent 3½ years.



The ornamental design for an electric bridge lamp, as shown.

56,129. ELECTRIC TABLE-LAMP. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,335. Term of patent 3½ years.



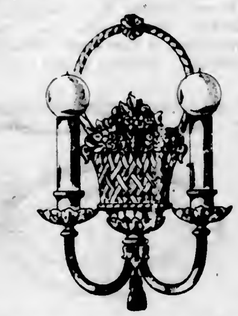
The ornamental design for an electric table lamp, as shown.

56,130. ELECTRIC CHANDELIER. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,336. Term of patent 3½ years.



The ornamental design for an electric chandelier, as shown.

56,131. ELECTRIC WALL-BRACKET. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,337. Term of patent 3½ years.



The ornamental design for an electric wall bracket, as shown.

56,132. ELECTRIC WALL-BRACKET. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,338. Term of patent 3½ years.



The ornamental design for an electric wall bracket, as shown.

56,133. ELECTRIC CHANDELIER. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,339. Term of patent 3½ years.



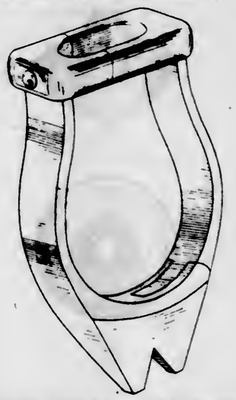
The ornamental design for an electric chandelier, as shown.

56,134. ELECTRIC CEILING-FIXTURE. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,340. Term of patent 3½ years.



The ornamental design for an electric ceiling fixture, as shown.

56,135. AUTOMOBILE-LOCK. FREDERIC GEILINGER, Washington, D. C. Filed Mar. 18, 1920. Serial No. 366,997. Term of patent 7 years.



The ornamental design for an automobile lock, as shown.

56,136. TOY VEHICLE-WHEEL. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Feb. 19, 1919. Serial No. 278,069. Term of patent 14 years.



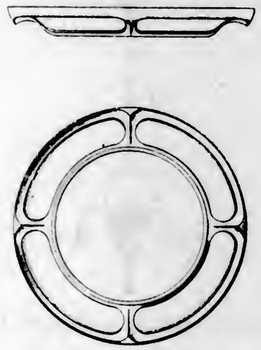
The ornamental design for a toy vehicle wheel, substantially as shown.

56,137. LIGHTING-FIXTURE. HOMER E. GLEASON, Seattle, Wash. Filed Aug. 16, 1919. Serial No. 318,045. Term of patent 3½ years.



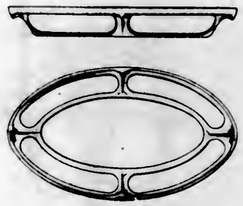
The ornamental design for a lighting fixture, as shown.

56,138. TRIMMING FOR AN AUTOMOBILE-LIGHT OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,001½. Term of patent 7 years.



The ornamental design for a trimming for an automobile light or similar article of manufacture substantially as shown.

56,139. TRIMMING FOR AN AUTOMOBILE-LIGHT OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,002½. Term of patent 7 years.



The ornamental design for a trimming for an automobile light or similar article of manufacture substantially as shown.

56,140. HANDLE FOR AN AUTOMOBILE-DOOR LOCK OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,003½. Term of patent 7 years.



The ornamental design for a handle for an automobile door lock or similar article of manufacture substantially as shown.

56,141. HANDLE FOR AN AUTOMOBILE-DOOR LOCK OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,004½. Term of patent 7 years.



The ornamental design for a handle for an automobile door lock or similar article of manufacture substantially as shown.

56,142. TRIMMING-PLATE FOR AN AUTOMOBILE-DOOR LOCK OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,005½. Term of patent 7 years.



The ornamental design for a trimming plate for an automobile door lock or similar article of manufacture substantially as shown.

56,143. PLATE FOR AN ELECTRIC SWITCH OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,006½. Term of patent 7 years.



The ornamental design for a plate for an electric switch or similar article of manufacture substantially as shown.

56,144. HANDLE CONSTRUCTION FOR AN AUTOMOBILE-WINDOW REGULATOR OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,007½. Term of patent 7 years.



The ornamental design for a handle construction for an automobile window regulator or similar article of manufacture substantially as shown.

56,145. HANDLE FOR AN AUTOMOBILE-DOOR LOCK OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,008½. Term of patent 7 years.



The ornamental design for a handle for an automobile door lock or similar article of manufacture substantially as shown.

56,146. TRIMMING FOR AN AUTOMOBILE DOME-LIGHT OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,009½. Term of patent 7 years.



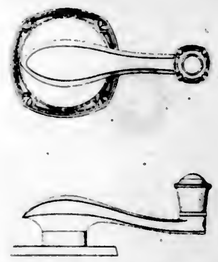
The ornamental design for a trimming for an automobile domelight or similar article of manufacture substantially as shown.

56,147. PLATE FOR AN ELECTRIC SWITCH OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,010½. Term of patent 7 years.



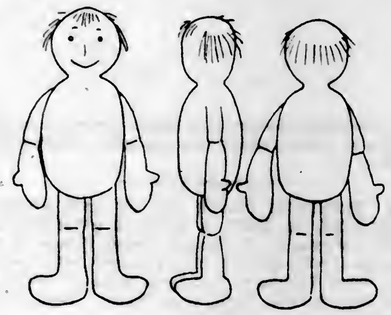
The ornamental design for a plate for an electric switch or similar article of manufacture substantially as shown.

56,148. HANDLE CONSTRUCTION FOR AN AUTOMOBILE-WINDOW REGULATOR OR SIMILAR ARTICLE OF MANUFACTURE. FREDERICK E. GREENE, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,011½. Term of patent 7 years.



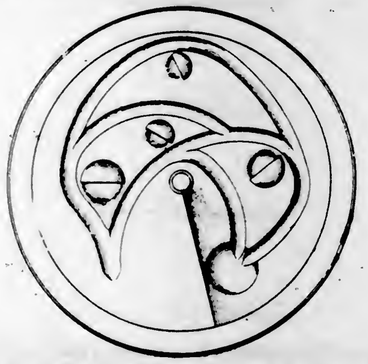
The ornamental design for a handle construction for an automobile window regulator or similar article of manufacture substantially as shown.

56,149. DOLL. JOHN B. GAUELLE, Norwalk, Conn. Filed Mar. 16, 1920. Serial No. 366,428. Term of patent 14 years.



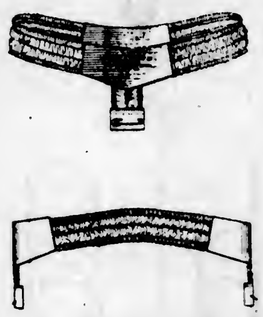
The ornamental design for a doll as shown.

56,150. GAME-BOARD. JOSEPH GUERIN, Chicago, Ill. Filed Apr. 5, 1920. Serial No. 371,490. Term of patent 3½ years.



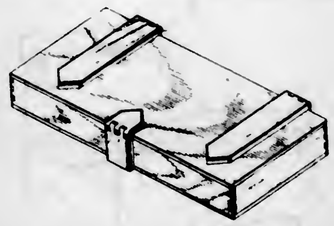
The ornamental design for a game board as shown.

56,151. BELT. VICTOR GUINZBURG, New York, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a Corporation of New York. Filed Apr. 24, 1920. Serial No. 376,418. Term of patent 14 years.



The ornamental design for a belt as shown.

56,152. BOX. PETER HALL, Pasadena, Calif. Filed Mar. 24, 1920. Serial No. 368,414. Term of patent 14 years.



The ornamental design for a box as shown.

56,153. HANDLE FOR A SPOON, FORK, OR THE LIKE. CHARLES W. HARMAN, New Rochelle, N. Y., assignor to Joseph Fahys & Company, New York, N. Y., a Corporation of New York. Filed Mar. 19, 1920. Serial No. 367,213. Term of patent 7 years.



The ornamental design of a handle for a spoon, fork or the like, as shown.

56,154. LIGHTING-FIXTURE. AMOS F. B. HARRADEN, Mount Vernon, N. Y. Filed Apr. 17, 1919. Serial No. 290,868. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

56,155. EMBLEM, BADGE, BUTTON, OR SIMILAR ARTICLE. MONROE E. HEILBRUN, New York, N. Y. Filed Dec. 24, 1918. Serial No. 268,175. Term of patent 3½ years.



The ornamental design for an emblem, badge, button, or similar article substantially as shown.

56,156. FRATERNITY PIN OR BADGE. ORLOFF HENRY, New Orleans, La., assignor to The Pi Kappa Alpha Fraternity, Atlanta, Ga., a Limited Partnership. Filed June 14, 1920. Serial No. 389,025. Term of patent 14 years.



The ornamental design for a fraternity pin or badge as shown.

56,157. STREET-DIRECTION AND ADVERTISING DEVICE. HENRY J. HICKEY and WARNER E. MCMULLAN, Fort Dodge, Iowa. Filed June 19, 1919. Serial No. 305,443. Term of patent 3½ years.



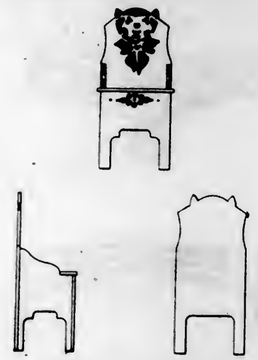
The ornamental design for a street direction and advertising device as shown.

56,158. TIRE. RUFUS H. HOLBROOK, Brooklyn, N. Y., assignor to The Charles William Stores, Inc., a Corporation of New York. Filed Apr. 13, 1920. Serial No. 373,563. Term of patent 7 years.



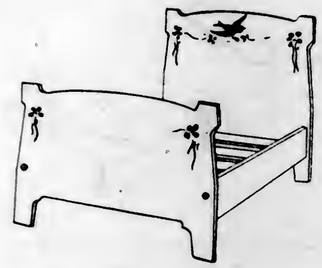
The ornamental design for a tire as shown.

56,159. TOY CHAIR. JULIA M. HOLLISTER, Des Moines, Iowa. Filed Apr. 27, 1920. Serial No. 377,122. Term of patent 7 years.



The ornamental design for a toy chair, as shown.

56,160. TOY BED. JULIA M. HOLLISTER, Des Moines, Iowa. Filed Apr. 27, 1920. Serial No. 377,123. Term of patent 7 years.



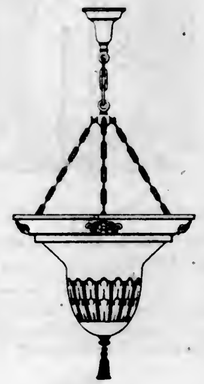
The ornamental design for a toy bed, as shown.

56,161. ANIMAL TOY. JULIA M. HOLLISTER, Des Moines, Iowa. Filed Apr. 27, 1920. Serial No. 377,124. Term of patent 7 years.



The ornamental design for an animal toy, as shown.

56,162. LAMP-FIXTURE. HARRY A. HOLLOWAY, St. Joseph, Mo., assignor to The King Manufacturing Company, St. Joseph, Mo., a Corporation of Missouri. Filed Feb. 27, 1920. Serial No. 361,661. Term of patent 3½ years.



The ornamental design for a lamp fixture, as shown.

56,163. LAMP-FIXTURE. HARRY A. HOLLOWAY, St. Joseph, Mo., assignor to The King Manufacturing Company, St. Joseph, Mo., a Corporation of Missouri. Filed Feb. 27, 1920. Serial No. 361,662. Term of patent 3½ years.



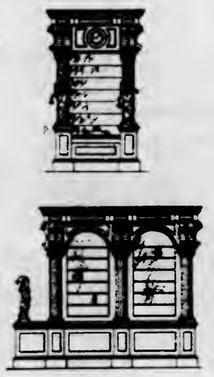
The ornamental design for a lamp fixture, as shown.

56,164. STATUETTE. WILLIAM J. JACOBI, Washington, D. C. Filed Mar. 5, 1920. Serial No. 363,581. Term of patent 7 years.



The new and ornamental design for a statuette, as shown.

56,165. ADVERTISING-CABINET. JOHN JEWELL, Duluth, Minn. Filed May 21, 1920. Serial No. 383,280½. Term of patent 7 years.



The ornamental design for an advertising cabinet, as shown.

56,166. STATUETTE. EDWARD HAZELL JONES, Snaresbrook, England. Filed Mar. 26, 1920. Serial No. 368,880½. Term of patent 14 years.



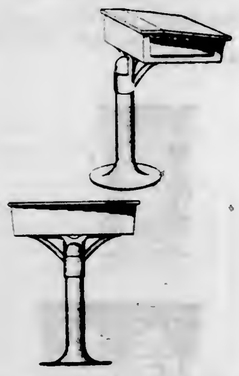
The ornamental design for a statuette as shown.

56,167. STATUETTE. EDWARD HAZELL JONES, Snaresbrook, England. Filed Mar. 26, 1920. Serial No. 368,881½. Term of patent 14 years.



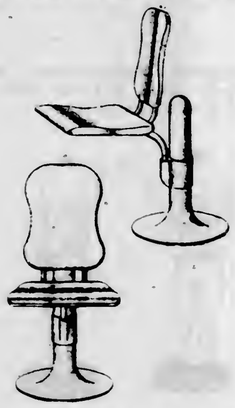
The ornamental design for a statuette as shown.

56,168. DESK. PALMER J. JONES and PAUL D. SCHREIBER, Port Washington, N. Y. Filed June 4, 1919. Serial No. 301,812. Term of patent 3½ years.



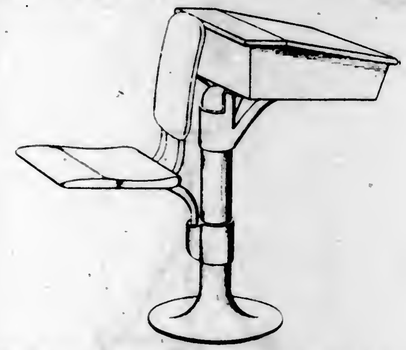
The ornamental design for a desk, substantially as shown.

56,169. SEAT. PALMER J. JONES and PAUL D. SCHREIBER, Port Washington, N. Y. Filed June 4, 1919. Serial No. 301,813. Term of patent 3½ years.



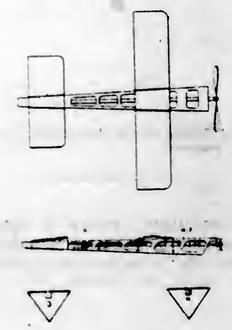
The ornamental design for a seat, substantially as shown.

56,170. COMBINED DESK AND SEAT. PALMER J. JONES and PAUL D. SCHREIBER, Port Washington, N. Y. Filed June 4, 1919. Serial No. 301,814. Term of patent 3½ years.



The ornamental design for a combined desk and seat, substantially as shown.

56,171. AERIAL TOY. STANLEY N. JUTHE, Newton, and SIDNEY H. LANG, Cambridge, Mass. Filed Apr. 21, 1920. Serial No. 375,634. Term of patent 3½ years.



The ornamental design for an aerial toy, as shown.

56,172. TEXTILE FABRIC. CLARA KATZ, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 18, 1920. Serial No. 382,411. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

56,173. PICTURE-FRAME. ZYGMUNT KLOTZ, Ralphton, Pa. Filed May 7, 1920. Serial No. 379,677. Term of patent 3½ years.



The ornamental design for a picture frame as shown.

56,174. SPINDLE FOR LIGHTING-FIXTURES. STEPHEN KOSTSZEWSKI, New York, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Apr. 9, 1920. Serial No. 372,671. Term of patent 7 years.



The ornamental design for a spindle for lighting fixtures, as shown.

56,175. ARM FOR LIGHTING-FIXTURES. STEPHEN KOSTSZEWSKI, New York, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Apr. 9, 1920. Serial No. 372,672. Term of patent 7 years.



The ornamental design for an arm for lighting fixtures, as shown.

56,176. BRACKET-BACK FOR LIGHTING-FIXTURES. STEPHEN KOSTSZEWSKI, New York, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Apr. 9, 1920. Serial No. 372,674. Term of patent 7 years.



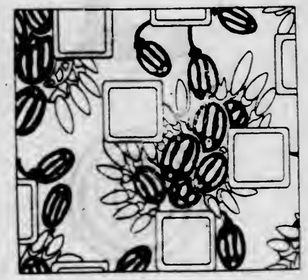
The ornamental design for a bracket-back for lighting fixtures, as shown.

56,177. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 18, 1920. Serial No. 382,407. Term of patent 3½ years.



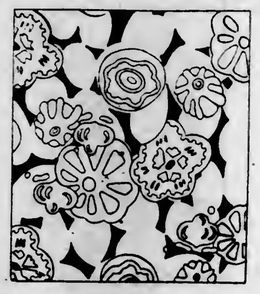
The ornamental design for a textile fabric, as shown.

56,178. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 18, 1920. Serial No. 382,408. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

56,179. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 18, 1920. Serial No. 382,409. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

56,180. LACE. THYRA O. KUMALEHTO, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed May 21, 1920. Serial No. 383,292. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

56,181. DENTAL COTTON-HOLDER. THEODORE G. LEWIS, Buffalo, N. Y., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y., a Corporation of New York. Filed Dec. 10, 1919. Serial No. 343,928. Term of patent 7 years.





The ornamental design for a dental cotton holder, as shown.

56,182. TABLE OR SIMILAR ARTICLE. MARSHALL B. LLOYD, Menominee, Mich. Filed Apr. 2, 1920. Serial No. 370,885. Term of patent 14 years.



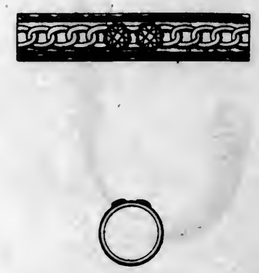
An ornamental design for a table or similar article substantially as shown.

56,183. TABLE OR SIMILAR ARTICLE. MARSHALL B. LLOYD, Menominee, Mich. Filed Apr. 2, 1920. Serial No. 370,886. Term of patent 14 years.



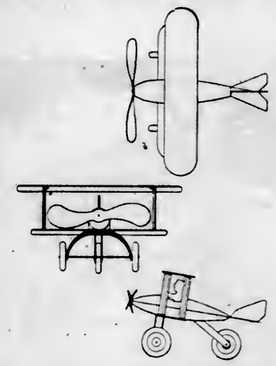
An ornamental design for a table, or similar article substantially as shown.

56,184. RING. SAMUEL MITCHELL, New York, N. Y. Filed Mar. 20, 1920. Serial No. 367,488. Term of patent 7 years.



The ornamental design for a ring as shown.

56,185. TOY AEROPLANE. ERNEST MONTELEONE, Jersey City, N. J. Filed June 16, 1919. Serial No. 304,713. Term of patent 7 years.



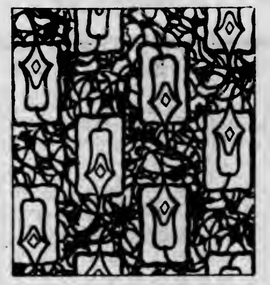
The ornamental design for a toy aeroplane as shown.

56,186. BARBER'S COMBINATION WORK-TABLE. EINAR J. NELSON, Tacoma, Wash. Filed May 11, 1920. Serial No. 380,672. Term of patent 7 years.



The ornamental design for a barber's combination work table, as shown.

56,187. TEXTILE FABRIC. LEON F. ORCUTT, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 18, 1920. Serial No. 382,401. Term of patent 3½ years.



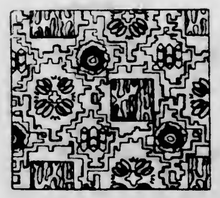
The ornamental design for a textile fabric, as shown.

56,188. TEXTILE FABRIC. LEON F. ORCUTT, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 18, 1920. Serial No. 382,402. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

56,189. TEXTILE FABRIC. LEON F. ORCUTT, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 18, 1920. Serial No. 382,403. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

56,190. DOLL. ERNESTO PERUGGI, New York, N. Y. Filed Mar. 2, 1920. Serial No. 362,780. Term of patent 3½ years.



The ornamental design for a doll, as shown.

56,191. DOLL. ERNESTO PERUGGI, New York, N. Y. Filed June 7, 1920. Serial No. 387,191. Term of patent 3½ years.



The ornamental design for a doll, as shown.

56,192. PIANO-CASE. WILLIAM M. PLAISTED, Larchmont Manor, N. Y., assignor to Hazelton Brothers, New York, N. Y., a Corporation of New York. Filed May 24, 1920. Serial No. 383,994. Term of patent 3½ years.



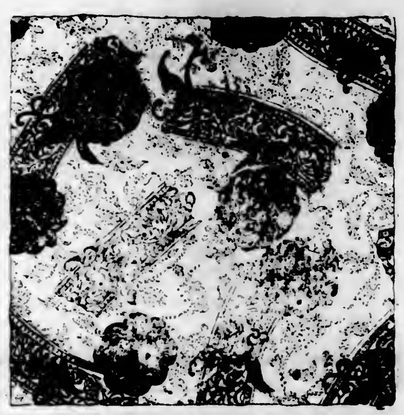
The ornamental design for a piano case as shown.

56,193. AUTOMOBILE TRAFFIC-SIGNAL. ERNEST RAPATTONI, Los Angeles, Calif. Filed June 7, 1920. Serial No. 387,194. Term of patent 7 years.



The ornamental design for an automobile traffic signal, as shown.

56,194. TEXTILE FABRIC FOR DECORATIVE PURPOSES. GEORGES REYBET, Jersey City, N. J. Filed June 1, 1920. Serial No. 385,839. Term of patent 3½ years.

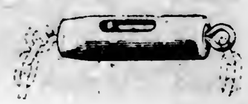


The ornamental design for a textile fabric for decorative purposes, as shown.

56,195. TEXTILE FABRIC FOR DECORATIVE PURPOSES. GEORGES REYBET, Jersey City, N. J. Filed June 1, 1920. Serial No. 385,840. Term of patent 3½ years.

The ornamental design for a textile fabric for decorative purposes, as shown.

56,196. CLUTCH. WILLIAM ANTON SCHULER, New York, N. Y. Filed Apr. 28, 1920. Serial No. 377,391. Term of patent 14 years.



The ornamental design for a clutch, as shown.

56,197. POLE-HOLDER. RAYMOND A. SCHULTZ, Rochester, N. Y., assignor of one-half to Albert S. Donaldson, Watertown, N. Y. Filed Mar. 8, 1920. Serial No. 364,302. Term of patent 14 years.



The ornamental design for a pole holder as shown.

56,198. EMBROIDERED LACE COLLAR. HENRY SCHWARBER, Weehawken, N. J., assignor to Inflexible Co., West New York, N. J. Filed May 8, 1920. Serial No. 379,992. Term of patent 3½ years.



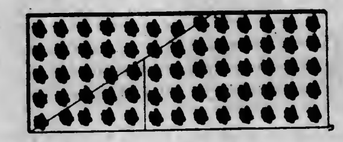
The ornamental design for an embroidered lace collar substantially as shown.

56,199. EMBROIDERED LACE COLLAR. HENRY SCHWARBER, Weehawken, N. J., assignor to The Inflexible Co., West New York, N. J. Filed June 1, 1920. Serial No. 385,837. Term of patent 3½ years.



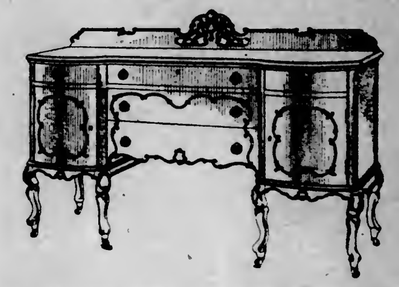
The ornamental design for an embroidered lace collar substantially as shown.

56,200. GAME-BOARD. EPHRIAM J. SCOTT, East Providence, R. I. Filed Sept. 22, 1919. Serial No. 325,560. Term of patent 3½ years.



The ornamental design for a game board, as shown.

56,201. BUFFET OR SIMILAR ARTICLE. HYMAN SILVER, Brooklyn, N. Y. Filed May 29, 1920. Serial No. 385,369. Term of patent 3½ years.



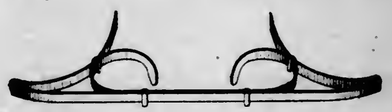
The ornamental design for a buffet or similar article, as shown.

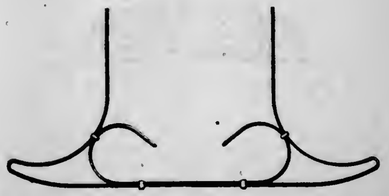
56,202. SERVICE PICTURE-MAT. MILTON J. SMITH, Philadelphia, Pa. Filed July 24, 1918. Serial No. 246,603. Term of patent 3½ years.



The ornamental design for a service picture mat, as shown.

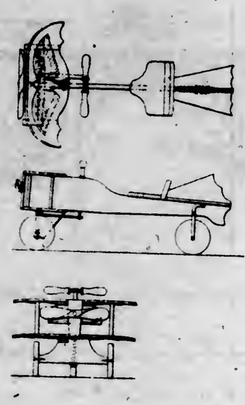
56,203. AUTOMOBILE-BUMPER. LEWIS F. STAFFORD, Chicago, Ill. Filed Mar. 17, 1920. Serial No. 366,710. Term of patent 7 years.





The ornamental design for an automobile bumper, as shown.

56,204. FOOT-PROPELLED CHILD'S CAR. JOHN H. STRAIN, Boston, Mass. Filed May 5, 1920. Serial No. 379,141. Term of patent 7 years.



The ornamental design for a foot propelled child's car as herein shown.

56,205. ORNAMENT FOR A PICTURE-FRAME OR THE LIKE. MARGARET L. STRONG, Washington, D. C. Filed Mar. 18, 1920. Serial No. 366,989. Term of patent 7 years.



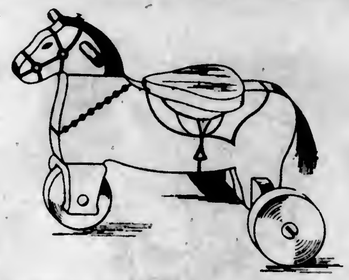
The ornamental design for an ornament for a picture frame or the like, as shown.

56,206. ORNAMENT FOR A PICTURE-FRAME OR THE LIKE. MARGARET L. STRONG, Washington, D. C. Filed Mar. 18, 1920. Serial No. 366,990. Term of patent 7 years.



The ornamental design for an ornament for a picture frame or the like, as shown.

56,207. CHILD'S VEHICLE. JOHN VAN WUYCKHUYSE, Rochester, N. Y. Filed May 19, 1920. Serial No. 382,601. Term of patent 3½ years.



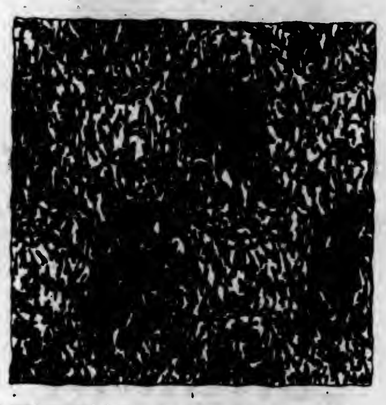
The ornamental design for a child's vehicle as shown.

56,208. TEXTILE FABRIC FOR DECORATIVE PURPOSES. GABRIEL J. VIRGILE, New York, N. Y. Filed May 26, 1920. Serial No. 384,470. Term of patent 3½ years.



The ornamental design for a textile fabric for decorative purposes, as shown.

56,209. TEXTILE FABRIC FOR DECORATIVE PURPOSES. GABRIEL J. VIRGILE, New York, N. Y. Filed June 1, 1920. Serial No. 385,833. Term of patent 3½ years.



The ornamental design for a textile fabric for decorative purposes, as shown.

56,210. CONTAINER. VICTOR VIVAUDOU, New York, N. Y. Filed Apr. 10, 1920. Serial No. 373,011. Term of patent 14 years.



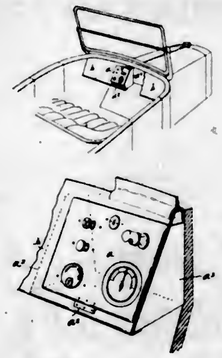
The ornamental design for a container.

56,211. CONTAINER. VICTOR VIVAUDOU, New York, N. Y. Filed Apr. 10, 1920. Serial No. 373,012. Term of patent 14 years.



The ornamental design for a container as shown.

56,212. INSTRUMENT-BOARD FOR AUTOMOBILES. ARTEMAS WARD, Jr., Detroit, Mich. Filed Jan. 26, 1920. Serial No. 354,261. Term of patent 14 years.



The ornamental design for an instrument board for automobiles, as shown and described.

56,213. TEXTILE FABRIC FOR DECORATIVE PURPOSES. COULTON WAUGH, New York, N. Y. Filed Apr. 3, 1920. Serial No. 371,172. Term of patent 3½ years.



The ornamental design for a textile fabric for decorative purposes, as shown.

56,214. PHONOGRAPH-CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed June 6, 1919. Serial No. 302,350. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 24, 1920.

[PUBLISHED AUGUST 25, 1920.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 98,341. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NEW JERSEY OPTICAL CO., Newark, N. J. Filed Sept. 30, 1916.

Veltex

Particular description of goods.—Non-Metallic Frames for Eyeglasses and Spectacles and for Temples.
Claims use since the latter part of December, 1914.

Ser. No. 104,534. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GRAHAM TRIPPE, Atlanta, Ga. Filed June 19, 1917.

KOP THE KAISER

Particular description of goods.—A Game-Board.
Claims use since June 1, 1917.

Ser. No. 109,744. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Mar. 23, 1918.

Del Monte

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Canned Hominy, Vinegar, Olives, Olive Relish, Tomato Sauce, Catsups, Pimentos, Canned Peppers, Canned Sauer-Kraut, Canned Baked Beans, Marmalades, Jams, Preserves, Jellies, Honey, Canned Maraschino Cherries, Dried Fruits and Raisins, Canned Berries, Canned Prunes, Canned Evaporated Milk, and Fresh Vegetables.
Claims use since Oct. 1, 1891.

Ser. No. 111,090. (CLASS 39. CLOTHING.) JUDSON B. BRANCH, Coldwater, Mich. Filed May 22, 1918.

JUNIOR JACKIE

Particular description of goods.—Boys' Wash-Suits, Rompers, and Middy-Blouses for Boys and Girls.
Claims use since on or about May 6, 1918.

Ser. No. 111,190. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SHELBY SUPPLY AND MANUFACTURING COMPANY, Cleveland, Ohio. Filed May 25, 1918.

Kandee Kote

No claim being made to the words "Candy Coat."
Particular description of goods.—Chewing-Gum.
Claims use since May 11, 1918.

Ser. No. 114,027. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NESTOR MANUFACTURING CO., INC., New York, N. Y. Filed Nov. 2, 1918.

Particular description of goods.—Machines and Tools—Namely, Taps, Dies, Jigs, Vises, Clamps, Bench-Plates, Punches, and Special Machines and Tools, Usually Built to Order and Comprising Grinding-Machines, Matrix-Making Machines, and Tapping-Machines.
Claims use since July, 1917.

Ser. No. 114,701. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. J. MOXLEY, INC., Chicago, Ill. Filed Dec. 18, 1918.

DIXIE

Particular description of goods.—Oleomargarin.
Claims use since Jan. 1, 1912.

Ser. No. 116,116. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MARMADUKE WARDLOW, Sheffield, England. Filed Feb. 24, 1919.

TERRIFIK

Particular description of goods.—Tool-Steel and Steel in Rod, Bar, Sheet, Ingot, Plate, and Wire Forms; Also High-Speed Steel, Self-Hardening Steel, Nickel-Steel, and Shear-Steel and Anvils.
Claims use since Aug. 30, 1909.

Ser. No. 116,117. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARMADUKE WARDLOW, Sheffield, England. Filed Feb. 24, 1919.

TERRIFIK

Particular description of goods.—Twist, Miners', and Rock Drills; Milling-Cutters, Shear-Blades, Reamers, Machine-Knives, Lathes, Rasps, Saws; Edge-Tools—Namely, Files, Chisels, Gouges, Hatchets, Axes, Plane-Irons; Shears, Hammers, Hoes, Spades, Shovels, Picks, Rakes, Spanner-Wrenches, Pipe-Stocks and Pipe-Dies, Pliers, Pincers, and Tongs.
Claims use since May 31, 1918.

Ser. No. 116,435. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE AU-TO PLAY GOODS COMPANY, Parkersburg, W. Va. Filed Mar. 10, 1919.

Au-To-

Particular description of goods.—Swings and Suspending-Hangers.
Claims use since about Aug. 15, 1917.

Ser. No. 116,897. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. S. PRICE & Co., Blackheath, England. Filed Mar. 25, 1919.



Particular description of goods.—Custard-Powder, Sponge-Cake Flour, Ice-Cream Powder, and Cake-Powder.
Claims use since Jan. 23, 1909.

Ser. No. 117,137. (CLASS 39. CLOTHING.) THOMAS H. HALL, Jersey City, N. J. Filed Apr. 3, 1919.



The words "The Hall Mark of Quality" being disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Gloves of Silk and of Cotton.
Claims use since Feb. 8, 1919.

Ser. No. 117,891. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NAAMLOOZE VENNOOTSCHAP ANTON JURGENS' MARGARINEFABRIEKEN, Oss, Netherlands. Filed Apr. 26, 1919.

J
O Z

Particular description of goods.—Cattle Food and Cattle-Cakes for Stock-Feeding Purposes, Animal and Vegetable Fats and Oils for Food Purposes.
Claims use since Oct. 1, 1916.

Ser. No. 118,148. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ILLINOIS AUTO TRUCK CO., Chicago, Ill. Filed May 5, 1919.

SUPER TRUCK

No claim is made for the word "Truck" apart from the mark shown in the drawing.
Particular description of goods.—Motor-Trucks and Trailers.
Claims use since about Mar. 1, 1919.

Ser. No. 118,261. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) FREEMAN-DAUGHADAY CO., Chartley, Mass. Filed May 8, 1919.

E-Z

Particular description of goods.—Collar-Holders, Used to Fasten Together the Adjacent Edges of Collars, Said Holders Being Made of or Plated with Precious Metal.
Claims use since August, 1918.

Ser. No. 118,824. (CLASS 39. CLOTHING.) A. STARR BEST, INC., Chicago, Ill. Filed May 23, 1919.

TIP TOP

Particular description of goods.—Leather Shoes for Boys.
Claims use since Mar. 1, 1916.

Ser. No. 119,156. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed June 3, 1919.

TyNiTE

Particular description of goods.—Explosives—That is to Say, Dynamite, a Detonating High Explosive Intended for Use in Blasting Rock, Earth, Ores, and for Agricultural Purposes.
Claims use since Mar. 7, 1919.

Ser. No. 119,247. (CLASS 25. LOCKS AND SAFES.) PERRY AUTO LOCK COMPANY, Chicago, Ill. Filed June 5, 1919.

VICTORY

Particular description of goods.—Automobile-Locks for Steering-Posts.
Claims use since Jan. 1, 1919.

Ser. No. 119,480. (CLASS 12. CONSTRUCTION MATERIALS.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed June 11, 1919.

PELICAN

Particular description of goods.—Felt Roofing and Roofing-Cements.
Claims use since March, 1915.

Ser. No. 119,624. (CLASS 39. CLOTHING.) BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed June 16, 1919.

TEENAGE

Particular description of goods.—Children's Shoes.
Claims use since Apr. 24, 1919.

Ser. No. 119,782. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE UNION CHAIN & MANUFACTURING COMPANY, Seville, Ohio. Filed June 19, 1919.

UNION

Particular description of goods.—Elevating, Conveying, and Power-Transmission Machinery, Including Chain Belting, Link Belting, Sprocket-Chains, Driving-Chains, Power-Transmission Chains, Attachment-Links for These Various Chains.
Claims use since on or about Mar. 14, 1914.

Ser. No. 119,896. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) JOHN KENYON & Co. (SHEFFIELD,) LIMITED, Millsands, Sheffield, England. Filed June 24, 1919. Under ten-year proviso.

MIDDLEWOOD SHEFFIELD

Particular description of goods.—Iron, (Pig, Cast, Rough, Bolt, Bar, Rod, Wire, Rail, Sheet, and Hoop;) Spring-Steel, Blister-Steel, Shear-Steel, High-Speed Steel, and Alloy Steels.
Claims use since the year 1720.

Ser. No. 119,897. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) JOHN KENYON & Co. (SHEFFIELD,) LIMITED, Millsands, Sheffield, England. Filed June 24, 1919. Under ten-year proviso.

COWLEY SHEFFIELD

Particular description of goods.—Iron, (Pig, Cast, Rough, Bolt, Bar, Rod, Wire, Rail, Sheet, and Hoop;) Spring-Steel, Blister-Steel, Shear-Steel, High-Speed Steel, and Alloy Steels.
Claims use since the year 1870.

Ser. No. 119,901. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) JOHN KENYON & Co. (SHEFFIELD,) LIMITED, Millsands, Sheffield, England. Filed June 24, 1919. Under ten-year proviso.

FULTON SHEFFIELD

Particular description of goods.—Iron, (Pig, Cast, Rough, Bolt, Bar, Rod, Wire, Rail, Sheet, and Hoop;) Spring-Steel, Blister-Steel, Shear-Steel, High-Speed Steel, and Alloy Steels.
Claims use since the year 1870.

Ser. No. 119,903. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) JOHN KENYON & Co. (SHEFFIELD,) LIMITED, Millsands, Sheffield, England. Filed June 24, 1919. Under ten-year proviso.

JK KENYON SHEFFIELD

Particular description of goods.—Iron, (Pig, Cast, Rough, Bolt, Bar, Rod, Wire, Rail, Sheet, and Hoop;) Spring-Steel, Blister-Steel, Shear-Steel, High-Speed Steel, and Alloy Steels.
Claims use since the year 1870.

Ser. No. 119,921. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GUSTAVE TUSCHEL, Atlanta, Ga. Filed June 24, 1919.

TUSCHELLAC

Particular description of goods.—Varnish or Polish for Furniture, Automobiles, &c.
Claims use since about July, 1916.

Ser. No. 119,975. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HENRY HUGHES & SON, LTD., London, England. Filed June 26, 1919.

HUSUN

Particular description of goods.—Standard Binnacles, Wheel-House Binnacles, After-Binnacles, Azimuth-Mirrors, Liquid Compasses, Boat-Binnacles, Overhead Trawler-Compasses, Sounding-Machines, Depth-Recorders, Course-Correctors, Course-Magnifiers, Telescopes for Officer of the Watch, Marine Telescopes, Marine Binoculars, Sextants, Station-Pointers, Parallel-Rules, Dividers, Aneroid Barometers, Torricelli Vacuum-Barometers, Hydrometers, Salinometers, Thermometers, Patent Logs, Log Lines and Glasses, Deep-Sea and Hand Lines, Aero-Compasses, Revolution and Speed Indicators, Anemometer and Air-Speed Indicators, Bank and Tilt Indicators, Altimeters and Pressure-Gages, Surveying Instruments; Drawing Instruments Comprising Draftsmen's Compasses, Dividers, Drawing-Pens, Spring-Bow Pens, Pencil-Dividers, Beam-Compasses, Proportional Compasses, Pen-Handles, Cases for Leads, Drawing-Scales, Protractors, and Parallel-Rulers.
Claims use since Sept. 25, 1918.

Ser. No. 120,335. (CLASS 39. CLOTHING.) WELLS-LAMONT MANUFACTURING COMPANY, Minneapolis, Minn. Filed July 7, 1919.



Particular description of goods.—Cotton Gloves.
Claims use since about Jan. 1, 1907.

Ser. No. 120,456. (CLASS 32. FURNITURE AND UPHOLSTERY.) HITZ, JACOBS & COMPANY, New York, N. Y. Filed July 11, 1919.

KIDDIE JOY

Particular description of goods.—Children's Cribs, High Chairs, Stationary and Rocking Chairs, Children's Beds, Metal and Wooden Beds, Children's Tables, Dining-Room Tables, Serving-Tables, Parlor-Tables, Dressers, Bureaus, Stools, Desks, Bassinettes.
Claims use since May 15, 1919.

Ser. No. 120,490. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LA CROSSE PLOW COMPANY, La Crosse, Wis. Filed July 12, 1919. Under ten-year proviso.

LA CROSSE

Particular description of goods.—Plows, Cultivators, Harrows, and Potato-Diggers.
Claims use since Jan. 1, 1885.

Ser. No. 120,972. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SPEAR & JACKSON LTD., Sheffield, England. Filed July 26, 1919.



Particular description of goods.—Steel of All Descriptions.
Claims use since Apr. 13, 1885.

Ser. No. 120,973. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SPEAR & JACKSON LTD., Sheffield, England. Filed July 26, 1919. Under ten-year proviso.

SPEAR & JACKSON.
S J
SHEFFIELD.

Particular description of goods.—Steel of All Descriptions.
Claims use since Apr. 1, 1851.

Ser. No. 121,418. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SHARPLES SEPARATOR CO., West Chester, Pa. Filed Aug. 8, 1919.

Sharples
SUCTION FEED
TUBULAR

No claim is made to the exclusive use of the words "Suction Feed, Tubular."
Particular description of goods.—Cream-Separators and Centrifugal Machinery, Operating Under a Suction Feed, Separating, Clarifying, or Emulsifying Liquids.
Claims use since Dec. 5, 1916.

Ser. No. 121,467. (CLASS 39. CLOTHING.) FROLASET CORSET COMPANY, Detroit, Mich. Filed Aug. 9, 1919.

Bandobelt

No claim being made to the word "Belt" apart from the mark as shown.
Particular description of goods.—A Specially-Constructed Article of Wearing-Apparel Made of Elastic Webbing and Fabric Material, Worn as a Diaphragm-Confiner.
Claims use since July 1, 1919.

Ser. No. 121,699. (CLASS 39. CLOTHING.) ZILLEE SOLOMON, St. Louis, Mo. Filed Aug. 15, 1919.

National Tailors
NT
SAINT LOUIS. MO

No claim is made herein to the words "National Tailors" or "Saint Louis, Mo." except in connection with the mark shown.
Particular description of goods.—Men's Coats, Vests, Trousers, Top-Coats, and Overcoats.
Claims use since Jan. 5, 1917.

Ser. No. 122,197. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIDALIA GROCERY COMPANY, Vidalia, Ga. Filed Aug. 30, 1919.

STEADFAST

Particular description of goods.—Canned Vegetables—Namely, Canned Tomatoes, Canned Corn, Canned Sweet Potatoes, Canned Okra and Tomatoes, Canned Stringless Beans.
Claims use since Apr. 6, 1916.

Ser. No. 122,614. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PEARL ROSENZWEIG, Chicago, Ill. Filed Sept. 12, 1919.



The lining shown in the drawing is intended for the shading only.
Particular description of goods.—Polishing Material for Cleaning and Polishing Furniture, Pianos, Victrolas, Hardwood Floors, Woodwork, and Automobiles.
Claims use since the 1st day of January, 1919.

Ser. No. 122,961. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BESSIRE & COMPANY, Indianapolis, Ind., and Louisville, Ky. Filed Sept. 22, 1919.

BESCO

Particular description of goods.—Churns, Cream-Mixers, Cream-Separators; Milk Clarifiers, Pasteurizers, Aerators, and Coolers; Can-Steamers, Bottle-Fillers, Bottle-Cappers, Bottle-Washers, Bottle-Sterilizers.
Claims use since Mar. 1, 1913.

Ser. No. 123,547. (CLASS 12. CONSTRUCTION MATERIALS.) MANASOTA LUMBER CORPORATION, Manasota, Fla. Filed Oct. 8, 1919.

SEMINOLE

Particular description of goods.—Long-Leaf-Yellow-Pine and Cypress Rough and Finished Lumber—Namely, Flooring, Ceiling, Molding, Siding, Partitions, Shingles, Laths, Box-Shooks, Dimension-Stock, Bridge-Timbers, Warehouse-Timbers, Railroad and Car Timbers, Railroad-Ties, and All Kinds of Framing and Boards.
Claims use since on or about July 1, 1919.

Ser. No. 123,604. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) L. BORN & SON, Hampton, Va. Filed Oct. 10, 1919.

RE-NU-ALL

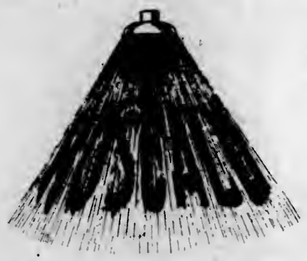
Particular description of goods.—Ready-Mixed Paints, Varnishes, and Stains.
Claims use since Sept. 8, 1919.

Ser. No. 123,837. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOMER G. BISHOP, Oakland, Calif., assignor to Specialty Products Company, San Francisco, Calif., a Corporation. Filed Oct. 16, 1919.



Particular description of goods.—Toy Vehicle.
Claims use since July 1, 1919.

Ser. No. 124,013. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILLIAM G. SOLOMON, New York, N. Y. Filed Oct. 20, 1919.



Particular description of goods.—Shower or Mixing Valves for Shower-Baths.
Claims use since Sept. 18, 1919.

Ser. No. 124,467. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARY MAILS BURTON, Los Angeles, Calif. Filed Nov. 3, 1919.



The descriptive words "Trade-Mark" and "Frosted" are disclaimed apart from the other features of the mark
Particular description of goods.—Frosted Nuts.
Claims use since June 24, 1919.

Ser. No. 124,536. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ADAM SCHEIDT BEVERAGE COMPANY, Norristown, Pa. Filed Nov. 4, 1919.

LOTOS

Particular description of goods.—Beverage Made of Malt and Cereals and Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume.
Claims use since October, 1919.

Ser. No. 124,537. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ADAM SCHEIDT BEVERAGE COMPANY, Norristown, Pa. Filed Nov. 4, 1919.

TWENTIETH CENTURY

Particular description of goods.—Beverage Made of Malt and Cereals and Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume.
Claims use since October, 1919.

Ser. No. 124,672. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PAUL SATTELKAU, San Francisco, Calif., assignor to Rain-on-Tap Company, a Corporation of California. Filed Nov. 7, 1919.

RAIN-ON-TAP

Particular description of goods.—Sprinkler Systems for Lawns and Gardens.
Claims use since January, 1916.

Ser. No. 125,637. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Dec. 5, 1919.



Particular description of goods.—Rubberized Cloth and Blankets Made Therefrom.
Claims use since Nov. 28, 1919.

Ser. No. 125,656. (CLASS 39. CLOTHING.) H. GOLDBERG, New York, N. Y. Filed Dec. 6, 1919.



GOLDCRAFT

Particular description of goods.—Ladies' Coats, Cloaks, and Suits.
Claims use since Nov. 15, 1919.

Ser. No. 125,730. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIÉTÉ ANONYME DES SAVONS DE MARSEILLE, Marseille, France. Filed Dec. 8, 1919.



The words "Savon," "Poudre," and "Alcali" are disclaimed.
Particular description of goods.—Soap.
Claims use since January, 1913.

Ser. No. 125,967. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL MERVIS, Baltimore, Md. Filed Dec. 13, 1919.

SALAD KING

Particular description of goods.—Russian Dressing, Salad-Dressing, Olive-Naise, Mayonnaise, Tartar Sauce, and French Dressing and Salads.
Claims use since on or about Oct. 16, 1916.

Ser. No. 126,124. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) INTERNATIONAL CORK COMPANY, Brooklyn, N. Y. Filed Dec. 16, 1919.

RE-LY-ON

The word "Re-Ly-On."
Particular description of goods.—Ring and Body Life-Preservers and Swimming-Floats.
Claims use since July 10, 1919.

Ser. No. 126,311. (CLASS 39. CLOTHING.) ENGLE & ZEIMER, New York, N. Y. Filed Dec. 22, 1919.



Particular description of goods.—Ladies' Hats.
Claims use since Dec. 1, 1919.

Ser. No. 126,495. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) TEL-TIL-TIP CO., Holland, Mich. Filed Dec. 26, 1919.



Particular description of goods.—Metallic Plugs or Inserts for Boot and Shoe-Heels.
Claims use since Feb. 1, 1919.

Ser. No. 127,236. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BENCHLEY BROTHERS, INC., Boston, Mass. Filed Jan. 17, 1920.

Featherlite

Particular description of goods.—Food Ingredients, Particularly Egg Substitutes.
Claims use since on or about Dec. 15, 1919.

Ser. No. 127,419. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARNOLD BROTHERS, INCORPORATED, Chicago, Ill. Filed Jan. 21, 1920.



No claim is made to the use of the word "Brand" apart from the trade-mark as shown.
Particular description of goods.—Hams, Bacon, Sausage, Lard, and Corn-Beef.
Claims use since Jan. 1, 1917.

Ser. No. 127,521. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) RE-BE SOAP CO., INC., New York, N. Y. Filed Jan. 23, 1920.



Particular description of goods.—Soap-Powder Dispensers.
Claims use since July, 1916.

Ser. No. 127,804. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORTUNE PRODUCTS COMPANY, Chicago, Ill. Filed Jan. 31, 1920.

FORTUNE

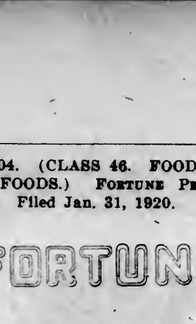
Particular description of goods.—Spaghetti, Macaroni, Vermicelli, and Egg-Noodles.
Claims use since early in January, 1920.

Ser. No. 127,934. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARVIN C. REYNOLDS, Oak Park, Ill. Filed Feb. 3, 1920.

Selbon

Particular description of goods.—Cultured Milk.
Claims use since Jan. 10, 1920.

Ser. No. 128,202. (CLASS 38. PRINTS AND PUBLICATIONS.) DUNCAN LUMBER COMPANY, Portland, Oreg. Filed Feb. 10, 1920.



The red lining indicated in the drawing is for the purpose of shading only, and the coloring may be varied without departing from the general design of our trade-mark, which is as illustrated.
Particular description of goods.—Printed Trade Pamphlets, Circulars, Printed Matter in the Form of Books Containing Information Appertaining to the Lumber Business.
Claims use since Feb. 1, 1915.

Ser. No. 128,296. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM A. SHABEL, Chicago, Ill. Filed Feb. 12, 1920.

CHEMI BAG

Particular description of goods.—A Preparation for Cleaning White Shoes, Canvas, Buck, Spats, White Felt Hats, White Clothes, White Kid Gloves, &c.
Claims use since Jan. 1, 1917.

Ser. No. 128,371. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JOHN S. SAMPSON & SON, New York, N. Y. Filed Feb. 13, 1920.

Hol-Tite

Particular description of goods.—Bar-Pin for Men's Soft Collars.
Claims use since Oct. 1, 1918.

Ser. No. 128,393. (CLASS 2. RECEPTACLES.) LAWRENCE PAPER MANUFACTURING COMPANY, Lawrence, Kans. Filed Feb. 14, 1920.



JAYHAWK

Particular description of goods.—Paper and Fiber Boxes.
Claims use since Jan. 1, 1918.

Ser. No. 128,472. (CLASS 5. ADHESIVES.) STICKALENE COMPANY, INCORPORATED, Portland, Me., and Boston, Mass. Filed Feb. 16, 1920.

Stickalene

Particular description of goods.—Stick Mucilage for Sticking Paper, China, Glass, Woodware, Leather, Tips on Cues, Decorations, Scrap-Books, &c.
Claims use since Dec. 19, 1919.

Ser. No. 128,568. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed Feb. 18, 1920.

PYROLOY

Consists of the word "Pyroloy."
Particular description of goods.—Tubes and Pipes Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.
Claims use since about Jan. 1, 1920.

Ser. No. 128,569. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed Feb. 18, 1920.

NOCOLOY

Consists of the word "Nocoloy."
Particular description of goods.—Tubes and Pipes Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.
Claims use since Jan. 1, 1920.

Ser. No. 128,570. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed Feb. 18, 1920.

ALBROLOY

Consists of the word "Albroloy."
Particular description of goods.—Tubes and Pipes Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.
Claims use since Jan. 1, 1920.

Ser. No. 128,571. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed Feb. 18, 1920.

BIDOLOY

Consists of the word "Bidoloy."
Particular description of goods.—Tubes and Pipes Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.
Claims use since Jan. 1, 1920.

Ser. No. 128,572. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed Feb. 18, 1920.

COROLOY

Consists of the word "Coroloy."
Particular description of goods.—Tubes and Pipes Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.
Claims use since Jan. 1, 1920.

Ser. No. 128,573. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed Feb. 18, 1920.

WALKOLOY

Particular description of goods.—Tubes and Pipes Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.
Claims use since Jan. 1, 1920.

Ser. No. 128,653. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLESTON MILLING COMPANY, Charleston, Mo. Filed Feb. 20, 1920.



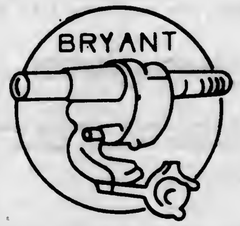
Particular description of goods.—Wheat-Flour.
Claims use since Aug. 2, 1890.

Ser. No. 128,743. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) RE-FILIT BROOM COMPANY, Boston, Mass. Filed Feb. 21, 1920.

REFILIT

Particular description of goods.—Brooms.
Claims use since Feb. 10, 1920.

Ser. No. 128,829. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BRYANT CHUCKING GRINDER COMPANY, Springfield, Vt. Filed Feb. 24, 1920.



The illustration of a part of a grinding-machine shown in the drawing being disclaimed excepting in connection with the other features of the mark as shown.
Particular description of goods.—Metal-Working Grinding-Machines.
Claims use since on or about June 1, 1919.

Ser. No. 129,234. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.

LOTUS

Particular description of goods.—Mops.
Claims use since Oct. 20, 1919.

Ser. No. 129,258. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GUARANTEE CONSTRUCTION COMPANY, New York, N. Y. Filed Mar. 5, 1920.

AIRVEYOR

Particular description of goods.—Conveyers for Conveying and Handling Materials.
Claims use since on or about Nov. 1, 1919.

Ser. No. 129,543. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EMPIRE TRANSFORMER COMPANY, Chicago, Ill. Filed Mar. 11, 1920.



No exclusive right is claimed in the words "Electric Appliances."
Particular description of goods.—Electric Heaters—Namely, Water-Heaters, Air-Heaters, Radiator-Heaters,

Carbureter-Heaters, and Heaters for Assaying Wood; Electric Toaster-Stoves; Transformers; Bell-Ringers; and High-Potential Apparatus—Namely, Ozone-Transformers; and Wireless Transformers.

Claims use since about Jan. 1, 1920.

Ser. No. 129,562. (CLASS 39. CLOTHING.) MARYLAND SHOE CORPORATION, Baltimore, Md. Filed Mar. 11, 1920.

GRO=RITE

Particular description of goods.—Shoes.
Claims use since Feb. 26, 1920.

Ser. No. 129,636. (CLASS 39. CLOTHING.) EDWARD KOLBERT & SONS, New York, N. Y. Filed Mar. 13, 1920.

SPORT-O-WOOL

The lining on the drawing indicating shading only.
Particular description of goods.—Ladies' Coats and Suits.
Claims use since Jan. 21, 1920.

Ser. No. 129,654. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.

JOHNNY

Particular description of goods.—Brisling and Sild, (Frequently Known Generically as Sardines.)
Claims use since about 1914.

Ser. No. 129,687. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) UNITED STATES SYRUP CO., San Francisco, Calif. Filed Mar. 13, 1920.

ALL-IN-ONE

Particular description of goods.—A Non-Alcoholic Syrup of Malt and Hops.
Claims use since Oct. 1, 1919.

Ser. No. 129,720. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed Mar. 15, 1920.



Particular description of goods.—Grain-Binders, Rice-Binders, Tractor-Binders, Reapers, Headers, Header-Binders, Mowers, Hay-Rakes, Sweep-Rakes, Side-Delivery Rakes, Tedders, Hay-Loaders, Hay-Presses, Stackers, Combined Sweep-Rakes and Stackers, Corn-Binders, Corn-Pickers, Corn-Shellers, Cornstalk-Rakes, Huskers, Shredders, Combined Huskers and Ensilage-Cutters, Ensilage-Harvesters, Silo-Fillers, Ensilage-Cutters, Stalk-Cutters, Harrows, Feed-Grinders, Grain-Drills, Seeders, Cultivators, Lime-Sowers, Fertilizer-Distributers, Manure-Spreaders, Binder-Hitches, Knife-Grinders, Land-Rollers, Land-Packers, Planters, Shock-Gatherers, Shockers, Harvester-Threshers, Threshers, Stripper-Harvesters, Combined Side-Delivery Rakes and Tedders, Bunchers, Listers, Motor-Cultivators, Beet-Toppers, Beet-Pullers, Beet-Harvesters, Plows, Internal-Combustion Engines, Tractors, Cream-Separators, Straw-Spreader Attachments, Stone-Bur Mills, Cane-Mills, Tractor-Hitches, Potato-Diggers, Hemp-Harvesters, Hemp Gather-Binders, Hemp-Scutchers, Hemp-Brakes, Hemp-Tow Cleaners, Feeders for Hemp-Scutchers, and Separate Parts for Each of said Machines.
Claims use since about Mar. 1, 1906.

Ser. No. 129,733. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CARL MERRYMAN, Chicago, Ill. Filed Mar. 15, 1920.

TIMES-INTO

Particular description of goods.—Calculating-Machines.
Claims use since Feb. 1, 1920.

Ser. No. 129,829. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COLLINS SAFETY RAZOR COMPANY, Chicago, Ill. Filed Mar. 17, 1920.

Collins

Particular description of goods.—Safety-Razors and Mechanical Stroppers for the Blades Thereof.
Claims use since Feb. 1, 1920.

Ser. No. 129,892. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GEORGE B. HUTCHINGS, Richmond, Va., assignor to Rado-Valv Corporation, Richmond, Va. Filed Mar. 18, 1920.



Disclaimer is made of exclusive use of the word "Valv."
Particular description of goods.—Indicator-Valves Carried on Automobile-Radiator Caps, the Valves to Indicate When the Water in the Radiator is Boiling.
Claims use since Dec. 17, 1919.

Ser. No. 129,896. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) KAPP & PETERSON LIMITED, Dublin, Ireland. Filed Mar. 18, 1920.

PETERSON

No claim is made to the exclusive use of the word "Peterson" apart from the mark shown.
Particular description of goods.—Tobacco-Pipes, Cigar-Holders, and Cigarette-Holders Made of Material other Than Precious Metal.
Claims use since February, 1910.

Ser. No. 129,902. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE MCRAE & ROBERTS CO., Detroit, Mich. Filed Mar. 18, 1920.

McR

Particular description of goods.—Plumbing Fixtures and Supplies Comprising Valves—Air, Pop, Safety, Pressure, Needle, Oil Needle, Globe, Angle, Check; Cocks—Draw-Off, Blow-Off, Gage, Air, Drain, Cylinder, Relief, Underwriter's, Bibb, Priming, Gasolene, Carbureter, Hose, Indicator, Filter-Press, Frost, Drain, Gas-Service, Steam, Hot-Plate, Water-Heater, Reflector, Milk-Can, Oil-Can; and Nipples, Air-Mixers, Parts and Fittings; Compression Bibbs and Stops—viz., Basin Cocks and Stops, Sill Cocks and Stops, Waste Cocks and Stops, Wash-Tray Bibbs, Key-Bibbs, and Bibb and Stop Parts, Fittings, and Connections; Faucets; Milk-Can, Oil-Can, Urn, Percolator, and Coffee-Urn Connections and Trimmings; Pipe and Tube Fittings, Consisting of Angles, Elbows, Return-Bends, T's, Nipples, Couplings, Bushings, Plugs, Caps, Lock-Nuts.
Claims use since Feb. 1, 1920.

Ser. No. 129,980. (CLASS 39. CLOTHING.) LOUIS KATZMAN, INC., New York, N. Y. Filed Mar. 20, 1920.

Nora Belle

Consisting of the words "Nora-Belle."
Particular description of goods.—Ladies' Dresses and Coats.
Claims use since Feb. 21, 1920.

Ser. No. 130,117. (CLASS 39. CLOTHING.) A. RICE & COMPANY LIMITED, St. Thomas, (Exeter,) England. Filed Mar. 24, 1920.

Dumbbell TRADE MARK

No claim being made to the words "Trade-Mark" apart from the mark shown in the drawing.
Particular description of goods.—Collars, Cuffs, Day-Shirts, Shirt-Fronts, Dress-Shirts, and Negligée Shirts.
Claims use since Sept. 23, 1912.

Ser. No. 130,147. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAINE PICKLING CO., Portland, Me. Filed Mar. 24, 1920.



The applicant, MAINE PICKLING CO., disclaims the language "The Maine Brand is the Main Brand" apart from the other features of the mark.
Particular description of goods.—Sweet Mixed Pickles, Sour Mixed Pickles, Vinegars, Mustard Sweet Pickles, Sour Pickles, Dill Pickles, Vinegar, Ketchups, Syrups, Chow-Chow, Mustard Pickles, Pickled Onions, Pickled Beets, Jams, and Jellies.
Claims use since Jan. 1, 1917.

Ser. No. 130,189. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KELLOGG MANUFACTURING CO., Rochester, N. Y. Filed Mar. 25, 1920.

KELLOGG

Particular description of goods.—Air-Pumps, Hand and Power Driven Pumps, Air-Pump Outfits, Air-Compressors, and Automobile-Driven Tire-Pumps.
Claims use since 1913.

Ser. No. 130,353. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN SPIKE COMPANY INCORPORATED, New York, N. Y. Filed Mar. 30, 1920.



No claim being made to the exclusive use of the words "Grip Spike" apart from the mark shown in the drawing.
Particular description of goods.—Railroad-Spikes.
Claims use since March, 1919.

Ser. No. 130,366. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GRAND RAPIDS SHOW CASE COMPANY, Grand Rapids, Mich. Filed Mar. 30, 1920.

GOLDEN RULE

Particular description of goods.—Cloth and Ribbon Combination Measuring and Price-Computing Machines.
Claims use since on or about July 1, 1919.

Ser. No. 130,368. (CLASS 39. CLOTHING.) DR. JAEGER'S SANITARY WOOLEN SYSTEM CO., New York, N. Y. Filed Mar. 30, 1920.

Jaeger Woolware
PRONOUNCED YAY-GER
100% PURE NATURAL WOOL

No claim being made to the expressions "Pronounced Yayger" and "100% Pure Natural Wool" apart from the mark shown on the drawing.
Particular description of goods.—Knitted and Woven Wearing-Apparel for Men, Women, and Children—Namely, Underwear, Hosiery, Sweaters, Bathing-Suits.
Claims use since Nov. 29, 1919.

Ser. No. 130,421. (CLASS 39. CLOTHING.) KLEISTONE RUBBER CO., Boston, Mass. Filed Mar. 31, 1920.

SPRIFOOT

The word "Sprifoot."
Particular description of goods.—Rubber Soles and Heels.
Claims use since Mar. 15, 1920.

Ser. No. 130,422. (CLASS 39. CLOTHING.) KLEISTONE RUBBER CO., Boston, Mass. Filed Mar. 31, 1920.

KLEISTONE

The word "Kleistone."
Particular description of goods.—Rubber Soles and Heels.
Claims use since Mar. 15, 1920.

Ser. No. 130,512. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLISS SYRUP REFINING CO., Kansas City, Mo. Filed Apr. 2, 1920.

BLISS MARSHMALLOWS

Particular description of goods.—Table-Syrup Composed of Corn and Cane Sugar.
Claims use since August, 1913.

Ser. No. 130,591. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) HURLEY MACHINE COMPANY, Cicero, Ill. Filed Apr. 3, 1920.

GLADIRONER

Particular description of goods.—Laundry Ironing-Machines.
Claims use since Mar. 1, 1920.

Ser. No. 130,597. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KATZENBACH & BULLOCK CO., New York, N. Y. Filed Apr. 3, 1920.

K&B

Particular description of goods.—Pigments and Materials Used in the Manufacture of Paint—Namely, Agalite Used as a Paint Pigment, Barytes, Black Hypo, Black Magnetic Oxid, Blanc Fixe, Bone-Black, Bronze-Blue, Cadmium-Yellow, Calcium Carbonate, Calcium Sulfate, Carbon-Black, Cement-Black, China-Clay Used as a Paint-Pigment, Chrome-Green, Chrome Oxid, Copper Oxid, Crocus Used as a Paint-Pigment, Drop-Black, Flake-White, Gas-Black, Golden Ocher, Graphite, Indian Red, Infusorial Earth, Iron Oxid, Ivory-Black, Lake Colors, Lampblack, Litharge, Lithopone, Magnetic Iron Oxid, Manganese Driers, Manganese Oxid, Mineral-Black, Ocher, Orange Mineral, Paris White, Peruvian Ocher, Princess Metallic Red, Prussian Blue, Red Lead, Red Oxid of Iron, Siennas, Silica Used as a Paint-Pigment, Soapstone Used as a Paint-Pigment, Soluble Colors, Talc Used as a Paint-Pigment, Terra-Alba Used as a Paint-Pigment, Toners, Tuscan Red, Ultramarine-Blue, Umbers, Vandyke Brown, Venetian Red, Vermilion, Vine-Black, Whiting, Zinc Oxid, Zinc-Yellow, Chrome-Yellow.
Claims use since June, 1910.

Ser. No. 130,666. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. ENGELHARD & SONS COMPANY, Louisville, Ky. Filed Apr. 5, 1920.

PENDENNIS

Particular description of goods.—Foods and Food Ingredients, Namely: Coffees, Teas, Spices, Extracts for Food Flavoring Purposes, Canned Fruits, Vegetables, Pork and Beans, Fish, Rolled Oats, Rice, Macaroni, Spaghetti, Noodles.
Claims use since Mar. 1, 1902.

Ser. No. 130,735. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VITAMON A/S., Copenhagen, Denmark. Filed Apr. 6, 1920.



The trade-mark consists of an oval, black etiquette, encircled with a thin undulating line with a point in each sinking. In the oval stand in white letters the word "Vitamon" and below "A" and "S," parted by a line.
Particular description of goods.—Meat Extracts, Compensations for Meat Extracts, Soup Extracts, Sauce Extracts, Soup-Cubes, Flour for Soup, Soup Preparations, Soup and Meat Herbs, Soup-Tablets, Bouillon-Capsules, Bouillon Preparations, Yeast, Dietetic Alimentary Substances for Food Purposes.
Claims use since February, 1918.

Ser. No. 130,842. (CLASS 12. CONSTRUCTION MATERIALS.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Apr. 8, 1920.

VITRICARBO

Particular description of goods.—Refractory Bricks.
Claims use since October, 1919.

Ser. No. 130,852. (CLASS 12. CONSTRUCTION MATERIALS.) STOWELL MANUFACTURING CO., Jersey City, N. J. Filed Apr. 8, 1920.

ANTHRACITE

Consisting of the word "Anthracite."
Particular description of goods.—Pipe-Coverings, Non-Metallic Fireproof Sheet-Roofing Materials, and Roofing-Shingles.
Claims use since March, 1905.

Ser. No. 130,911. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) NEWPORT ROLLING MILL CO., Newport, Ky. Filed Apr. 9, 1920.

MONOPOLE

Particular description of goods.—Corrugated-Metal Sheets and Plain-Metal Sheets.
Claims use since August, 1919.

Ser. No. 130,912. (CLASS 12. CONSTRUCTION MATERIALS.) NEWPORT ROLLING MILL CO., Newport, Ky. Filed Apr. 9, 1920.

GENUINE OPEN HEARTH IRON

No claim being made to the words "Genuine Open Hearth Iron" apart from the mark shown.
Particular description of goods.—Building Material of Galvanized-Steel Sheets, Black-Steel Sheets, Painted-Steel Sheets, as Follows,—to wit, Corrugated Ridge-Rolls, Corrugated Side-Wall Flashings, Corrugated End-Wall Flashings, Corrugated Awning-Sheets, Corrugated Arches and Curved Sheets for Use in Arched Construction, Corrugated Sheets with V-Crimp Edges, Corrugated Pressed Standing-Seam Roofing, V-Crimp Roofing, Middle or 3-V-Crimp Roofing, 4-V-Crimp Roofing, 5-V-Crimp Roofing, 6-V-Crimp Roofing, Pressed Standing-Seam Roofing, Pressed Standing-Seam Roofing with Center Crimp, Beaded V-Crimp Roofing, Beaded Pressed Standing-Seam Roofing, Corner-Molding, Steel Ceilings and Side-Wall Sheets of Ornamental Design, Cornice-Strips, Weatherboard-Siding, Metal Corner-Boards: Imitation Brick and Stone Panel Siding, Panel-Siding, Pressed-Brick Siding, Rock-Faced Brick Siding, Corner-Strips and Pilasters, Rock-Faced Stone Siding, Plane Ridge-Rolls, Plane Angle Ridge-Caps, Barn-Door-Track Covers, Door and Window Casing Strips, Door and Window Sills, Base-Boards, 2-V-Crimp Patent-Lock Roofing, 3-V-Crimp Patent-Lock Roofing, Corrugated Patent-Lock Roofing, Cluster-Shingles with Patent Lock, Cluster-Shingles with V-Crimp Edges, Also Cluster-Shingles with Pressed Standing O-Seam Edges, and Also Cluster-Shingles with Plain Edges, and of Ornamental Design, Metal Cluster-Tiles, Ornamental Metal Shingles, Hip-Shingles, Shingle Ridge-Rolls, Formed Shingle-Valleys, Corner Finishing-Strips, Gable-End Finishing-Strips, Porch Flashing-Strips, Finals and Cresting-Blocks, Wall-Ties, Single and Double Beaded Eaves-Troughs Provided with Lap-Joints, Single and Double Beaded Eaves-Troughs, Provided with Slip-Joints; Eaves-Trough End-Pieces, Cap and Outlets, Eaves-Trough Miters and Box Gutters, Self-Capping Roll-Roofing, Roll and Cap Roofing, and Beaded Ceiling and Siding Strips.
Claims use since August, 1919.

Ser. No. 130,930 (CLASS 17. TOBACCO PRODUCTS.) CHARLES J. SPIETZ, Detroit, Mich. Filed Apr. 9, 1920.



Being a portrait of Robert Emmet.
Particular description of goods.—Cigars.
Claims use since 1887.

Ser. No. 130,932. (CLASS 7. CORDAGE.) SILVER LAKE COMPANY, Newton, Mass. Filed Apr. 9, 1920.

PELHAM

Particular description of goods.—Braided Cords.
Claims use since Aug. 25, 1911.

Ser. No. 130,943. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LOUIS V. ARONSON, Newark, N. J. Filed Apr. 10, 1920.

RONSONORA

Particular description of goods.—Musical Toys of the Kazoo Type.
Claims use since November, 1919.

Ser. No. 130,960. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WESTERN MILLING COMPANY, Los Angeles, Calif. Filed Apr. 7, 1920.

BESGRADE CAPRIAC

Particular description of goods.—Feed for Stock, Particularly for Milk-Goats.
Claims use since Mar. 1, 1920.

Ser. No. 130,961. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WESTERN MILLING COMPANY, Los Angeles, Calif. Filed Apr. 7, 1920.

BESGRADE NUTRIAC

Particular description of goods.—Feed for Stock, Particularly for Dairy-Cows.
Claims use since Mar. 1, 1920.

Ser. No. 131,043. (CLASS 39. CLOTHING.) STANLEY E. SELONICK & Co., New York, N. Y. Filed Apr. 12, 1920.

APOLLO

Particular description of goods.—Outer Garments, Comprising Suits and Overcoats for Men, Boys, and Children.
Claims use since November, 1917.

Ser. No. 131,055. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE YALE & TOWNE MFG. Co., Stamford, Conn. Filed Apr. 12, 1920.

YALE

Particular description of goods.—Automatic Bolt-Operating Machines, Pulley-Blocks, and Hoists.
Claims use since 1914.

Ser. No. 131,057. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE YALE & TOWNE MFG. Co., Stamford, Conn. Filed Apr. 12, 1920.



Particular description of goods.—Automatic Bolt-Operating Machines, Pulley-Blocks, and Hoists.
Claims use since 1914.

Ser. No. 131,107. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) W. R. DICKSON, San Francisco, Calif. Filed Apr. 14, 1920.



No claim is made for the word "Yale" except in the particular manner it appears in the accompanying drawing.
Particular description of goods.—Suitcases and Traveling-Bags.
Claims use since May 15, 1914, for the word "Yale;" since Mar. 20, 1920, for the word "Yale" with the design.

Ser. No. 131,146. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) L. A. COHN & BRO., Chicago, Ill. Filed Apr. 15, 1920.



Particular description of goods.—Babbitt Metal, Brass Ingots, Solder-Bars, Ingot-Copper, Bronze, Aluminum, Pig-Tin, Lead, Type-Metal, and Spelter.
Claims use since June, 1917.

Ser. No. 131,165. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ROLAND A. GSELL, New York, N. Y. Filed Apr. 15, 1920.

Hafis

"Hafis," of which all the letters are filled in with diagonal lines, indicating particular shading.
Particular description of goods.—Watches and Watch-Movements.
Claims use since Jan. 1, 1918.

Ser. No. 131,225. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE MOREY MERCANTILE COMPANY, Denver, Colo. Filed Apr. 16, 1920.

Solitaire

Particular description of goods.—Brooms.
Claims use since about Nov. 1, 1919.

Ser. No. 131,339. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE LUDCKE PICTURE SCREEN Co., St. Peter, Minn. Filed Apr. 19, 1920.

IDEALITE

Particular description of goods.—Moving-Picture Screens.
Claims use since Feb. 1, 1919.

Ser. No. 131,365. (CLASS 2. RECEPTACLES.) J. S. WATERMAN & SONS INC., Boston, Mass. Filed Apr. 19, 1920.



Particular description of goods.—Burial-Caskets, and Cases Therefor.
Claims use since Nov. 19, 1897.

Ser. No. 131,510. (CLASS 38. PRINTS AND PUBLICATIONS.) TULLOGRAPH ART COMPANY, Los Angeles, Calif. Filed Apr. 22, 1920.

TULLOGRAPH

Particular description of goods.—Posters, Display-Cards, Painted Signs, Calendars, and Advertising Matter.
Claims use since Dec. 15, 1918.

Ser. No. 131,554. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BRANDRAM-HENDERSON LIMITED, Montreal, Quebec, Canada. Filed Apr. 24, 1920.

NAMOLITE

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints; Enamel Paints, and Wood Stains and Varnishes.
Claims use since Dec. 15, 1919.

Ser. No. 131,731. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARRY H. HALL, Dothan, Ala. Filed Apr. 28, 1920.

LIQWOOD

Particular description of goods.—Ready-Mixed Paints.
Claims use since Jan. 1, 1920.

Ser. No. 131,732. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARRY H. HALL, Dothan, Ala. Filed Apr. 23, 1920.

PRESERVO

Particular description of goods.—Ready-Mixed Paints.
Claims use since Oct. 1, 1918.

Ser. No. 131,734. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EDWARD JAMES, New York, N. Y. Filed Apr. 28, 1920.

JAMES

Particular description of goods.—Cutlery, Machinery, and Tools, and Particularly Table-Knives, Table-Forks, and Blades for Table-Knives, All Made of Base Metal, Butchers' Knives, Blades for Butchers' Knives, Cooks' Knives, Blades for Cooks' Knives, Sharpening-Steels, Pocket-Knives, Blades for Pocket-Knives, Penknives, Blades for Penknives, Scissors, Shears, Razors, Safety-Razors, Razor-Blades, Stropping-Machines.
Claims use since January, 1920.

Ser. No. 131,776. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CO-OPERATIVE CANNERIES, San Jose, Calif. Filed Apr. 29, 1920.

COCK O'THE WALK

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Mar. 1, 1920.

Ser. No. 131,946. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DE BRUYN, LIMITED, London, England. Filed May 3, 1920.

NUSU

Particular description of goods.—Edible Oils and Fats.
Claims use since October, 1919.

Ser. No. 132,083. (CLASS 39. CLOTHING.) ALBERT KUMMEL, New York, N. Y. Filed May 6, 1920.



The expression "Dainty Made" is hereby disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Infants' Wearing-Apparel Comprising Robes, Slips, Sacks, Coats, Capes, and Dresses.
Claims use since May 1, 1918.

Ser. No. 132,134. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE VARNITONE MANUFACTURING COMPANY, Akron, Ohio. Filed May 6, 1920.

Var-ni-tone
A QUALITY POLISH

No claim is made to the exclusive use of the words "A Quality Polish" apart from the mark as shown.
Particular description of goods.—Polish for Varnished, Waxed, and Similar Surfaces.
Claims use since Mar. 15, 1920.

Ser. No. 132,161. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN BLAUL'S SONS CO., Burlington, Iowa. Filed May 8, 1920.

CANARY



Particular description of goods.—Canned Fruit, Canned Vegetables, Canned Mackerel, Canned Shrimp, Canned Sardines, Canned Salmon, Pickles, Olives, Vinegar, Catsup, Seeded Raisins, Dried Fruits, Buckwheat-Flour, Peanut-Butter, Mixed Candy, Pancake-Flour, Oysters, Spices, Tea, Coffee, Mince-Meat, Preserved Fruits, and Flavoring Extracts for Foods.
Claims use since Feb. 22, 1920.

Ser. No. 132,203. (CLASS 17. TOBACCO PRODUCTS.) DAVE S. SAQUI, New York, N. Y. Filed May 8, 1920.

JEAN VALJEAN



JEAN VALJEAN

The picture therein being a suggested portrait of Jean Valjean.
Particular description of goods.—Cigars and Cigarettes.
Claims use since Feb. 2, 1914.

Ser. No. 132,232. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC CONTROLLER CO., Indianapolis, Ind. Filed May 10, 1920.

Regutroller

Particular description of goods.—Electric Heat-Regulating Devices.
Claims use since Jan. 1, 1920.

Ser. No. 132,253. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) K-D MANUFACTURING CO., Lancaster, Pa. Filed May 10, 1920.

KAY-DEE

Particular description of goods.—Valve-Spring Lifters.
Claims use since Apr. 30, 1920.

Ser. No. 132,254. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KNAPP & VAN NOSTRAND, INC., New York, N. Y. Filed May 10, 1920.

BACALAO
VANSTRAND
BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Dried Cod-Fish.
Claims use since Apr. 20, 1920.

Ser. No. 132,256. (CLASS 39. CLOTHING.) MOHAWK SILK FABRIC CO., New York, N. Y. Filed May 10, 1920.

Mohawk



The lining on the medallion on the drawing is for shading only.
Particular description of goods.—Silk Gloves, Mocha-Suède Gloves, and Silk Underwear of One Piece for Women.
Claims use since 1910.

Ser. No. 132,292. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) J. J. BEYERLE MFG. CO., New York, N. Y. Filed May 11, 1920.

La Legerete
DESSOUS DE BRAS

No claim being made to the words "Dessous de Bras" except in connection with the mark shown.
Particular description of goods.—Dress-Shields.
Claims use since 1912.

Ser. No. 132,314. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) OPTICAL PRODUCTS CORPORATION, New York, N. Y. Filed May 11, 1920.



Particular description of goods.—Celluloid Frames Rims, Nose-Pieces, and Parts of Eyeglasses.
Claims use since Oct. 1, 1919.

Ser. No. 132,538. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KOR-DOH MANUFACTURING CORPORATION, Poughkeepsie, N. Y. Filed May 17, 1920.

H-MICRO-K

Particular description of goods.—Hand-Reamers, Machine-Reamers.
Claims use since Apr. 1, 1920.

Ser. No. 132,775. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DE LAVAL SEPARATOR COMPANY, New York, N. Y. Filed May 22, 1920.

DE LAVAL

Particular description of goods.—Milking Machinery.
Claims use since the fall of 1916. Applicant is owner of prior registrations 52,583 and 54,868, both under the ten-year provision.

Ser. No. 132,780. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) EILERT PRODUCTS CO., Fresno, Calif. Filed May 22, 1920.

La Boheme

Particular description of goods.—Non-Intoxicating Cereal Beverage Containing Less Than One-Half of One Per Cent. Alcohol, by Volume.
Claims use since Apr. 28, 1920.

Ser. No. 132,794. (CLASS 12. CONSTRUCTION MATERIALS.) KLING-TITE PRODUCTS COMPANY, Chicago, Ill. Filed May 22, 1920.

Kling-Tite

Particular description of goods.—Roof-Cement.
Claims use since Dec. 1, 1915.

Ser. No. 132,830. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) UNITED BEVERAGE COMPANY, Marinette, Wis. Filed May 22, 1920.

GOLD ★ STAR

Particular description of goods.—Root-Beer, Ginger-Ale, Apple Cider, Orange Cider, Raspberry Cider, Grape Cider, and Cherry Cider.
Claims use since Apr. 12, 1920.

Ser. No. 132,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAN-AMERICAN MANUFACTURING CO., Houston, Tex. Filed May 24, 1920.

PAN TEX BRAND

Pan-American Manufacturing Company hereby waives, relinquishes, and disclaims any interest that it has in the word "Brand" and the pictorial representation of the State of Texas, and the word "Houston" apart from the other features of the trade-mark.
Particular description of goods.—Spaghetti, Noodles, Vermicelli, Macaroni, and Macaroni-Dumplings.
Claims use since the 22d day of July, 1919.

Ser. No. 133,002. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY J. STEIN, Boston, Mass. Filed May 26, 1920.



Particular description of goods.—Syrups for Soft Drinks and Flavors and Flavoring Extracts for Soft Drinks.
Claims use since about Mar. 1, 1920.

Ser. No. 133,018. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) M. MCTIGHE COMPANY, INC., New York, N. Y. Filed May 27, 1920.



The lined background shown in the drawing represents shading. No claim is made to the exclusive use of the word "Reproducer" apart from the mark as shown in the drawing.
Particular description of goods.—Phonographic Reproducers.
Claims use since May 1, 1920.

Ser. No. 133,198. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) P. BALLANTINE & SONS, Newark, N. J. Filed June 3, 1920.

BALTOSE

Particular description of goods.—Malt Extracts.
Claims use since Apr. 27, 1920.

Ser. No. 133,199. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) P. BALLANTINE & SONS, Newark, N. J. Filed June 3, 1920.

BALMALT

Particular description of goods.—Malt Extract.
Claims use since Apr. 27, 1920.

Ser. No. 133,227. (CLASS 12. CONSTRUCTION MATERIALS.) THE QUALITY BRANDS COMPANY, Cleveland, Ohio. Filed June 3, 1920.

VITAPLASTIC

Particular description of goods.—Glazing, Roofing, and Calking Compounds; Waterproofing Compounds for Cement, Concrete, and other Construction Materials, and on Boiler-Sealer.
Claims use since June 1, 1916.

Ser. No. 133,265. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920.

ATSINA

Particular description of goods.—Magnet-Steel.
Claims use since Jan. 1, 1918.

Ser. No. 133, 268. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920.

KUTANI

Particular description of goods.—Ball-Bearing Steel.
Claims use since Jan. 1, 1918.

Ser. No. 133,270. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920.

SILCROME

Particular description of goods.—Non-Corrosive Steel.
Claims use since Jan. 1, 1919.

Ser. No. 133,271. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920.

SALISH

Particular description of goods.—Drill-Steel and Carbon Twist-Drill Steel.
Claims use since Jan. 1, 1918.

Ser. No. 133,272. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920.

PIEGAN

Particular description of goods.—Ball-Bearing Steel.
Claims use since Jan. 1, 1918.

Ser. No. 133,389. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN MARTHA WASHINGTON CANDIES CO., Chicago, Ill. Filed June 7, 1920.



Particular description of goods.—Candy.
Claims use since on or about Mar. 1, 1920.

Ser. No. 133,542. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) IDEAL WINDOW PULLEY CORPORATION, Brooklyn, N. Y. Filed June 10, 1920.

RIGHT-O

Particular description of goods.—Window-Pulleys.
Claims use since Nov. 1, 1919.

Ser. No. 133,561. (CLASS 39. CLOTHING.) D. W. SHOYER & CO., New York, N. Y. Filed June 10, 1920.



No claim being made to the words "The Very Best" apart from the mark shown in the drawing.
Particular description of goods.—Bloomers.
Claims use since March, 1920.

Ser. No. 133,641. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE VER-VAC COMPANY, Baltimore, Md. Filed June 12, 1920.



Particular description of goods.—Non-Alcoholic Maltless Beverages Sold as a Soft Drink and Syrups and Extracts for Manufacturing the Same.
Claims use since January, 1917.

Ser. No. 133,645. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WAGNER MANUFACTURING COMPANY, Indianapolis, Ind. Filed June 12, 1920.

WagneR

Particular description of goods.—Flexible Toilet-Seat Covers.
Claims use since May 7, 1920.

Ser. No. 133,717. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ANDREW W. TARSON, Chicago, Ill. Filed June 14, 1920.

WEE GEE

Particular description of goods.—Soap.
Claims use since May 15, 1920.

Ser. No. 133,730. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EVERLAST RING CAST COMPANY, Boston, Mass. Filed June 15, 1920.



No claim being made to the representation of the mold or the words "Ever Last" apart from the mark as shown.
Particular description of goods.—Molds and Parts in Connection with Molds Used in Casting Jewelry.
Claims use since Sept. 30, 1919.

Ser. No. 133,801. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SOUTHERN BEVERAGE COMPANY, Galveston, Tex. Filed June 16, 1920.



Particular description of goods.—Non-Alcoholic Beverages and Syrups for the Production of the Same, Under the Following Flavors: Javo, Ginger-Ale, Root-Beer, Strawberry, Orange, Cherry, Cream, Lemon, Sarsaparilla, Grape, Julo, Cherry Julo, Root Julo, and Lime Julo.
Claims use since Apr. 19, 1919.

Ser. No. 133,878. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE GUARANTEE SPECIALTY MANUFACTURING COMPANY, Cleveland, Ohio. Filed June 18, 1920.

Loyal

Particular description of goods.—Snap-Fasteners.
Claims use since about Dec. 9, 1920.

Ser. No. 133,990. (CLASS 38. PRINTS AND PUBLICATIONS.) THE SEARCHLIGHT PUBLISHING COMPANY, INC., Wilmington, Del., and Washington, D. C. Filed June 21, 1920.

THE SEARCHLIGHT

Particular description of goods.—Monthly Publication.
Claims use since May 1, 1919.

Ser. No. 134,037. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SERV-US GROCERY PRODUCTS CORPORATION, New York, N. Y. Filed June 22, 1920.

Serv-us

Particular description of goods.—Grape-Juice, Lemon-Soda, Birch-Beer, Sarsaparilla, Ginger-Ale, Root-Beer Cola; Limes, and Lithia.
Claims use since July, 1910.

Ser. No. 134,040. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SOUTHERN MOTOR MANUFACTURING ASSOCIATION, LTD., Houston, Tex. Filed June 22, 1920.

SOUTHERN

Particular description of goods.—Automobiles, Automobile-Bodies, Trailers, and Motor-Trucks.
Claims use since Apr. 7, 1920.

Ser. No. 134,047. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNITED-XPEDITE FINISHING COMPANY, Portland, Me., and Boston, Mass. Filed June 22, 1920.

XPEDITE

Particular description of goods.—Heel and Sole Edge Finishing Machines and Parts Thereof.
Claims use since before Oct. 1, 1904.

Ser. No. 134,049. (CLASS 12. CONSTRUCTION MATERIALS.) AMERICAN PITCH PINE EXPORT COMPANY, Wilmington, Del., and New Orleans, La. Filed June 23, 1920.

APPECO

Particular description of goods.—Finished Lumber.
Claims use since Apr. 1, 1919.

Ser. No. 134,081. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLER FLOUR MILLS, Yakima, Wash. Filed June 23, 1920.

BIG Y

Particular description of goods.—Wheat-Flour.
Claims use since Mar. 10, 1920.

Ser. No. 134,093. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ROBESON CUTLERY CO., Rochester, N. Y. Filed June 23, 1920.

ROYAL GOBBLER

Particular description of goods.—Carving-Sets.
Claims use since April, 1920.

Ser. No. 134,107. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAVANNA & COMPANY, Philadelphia, Pa. Filed June 24, 1920.

OALCA

Particular description of goods.—Canned Olive-Oil.
Claims use since Mar. 15, 1916.

Ser. No. 134,141. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) POCAHONTAS BRAID CORPORATION, New York, N. Y. Filed June 24, 1920.

POCAHONTAS BRAIDS

No claim being made to the exclusive use of the word "Braids" apart from the mark as shown in the drawing.
Particular description of goods.—Braid-Stitching; Soutache; Elastic; Belting; Cord Edge; Cords; Lace; Wool; Ruching; Seam-Binding; Fringe; Tassels; Snap-Fasteners; Floss; Shoe-Laces; Passementerie; Stickerie; Radium Braids; Rag-Tail Braid; and Pig-Tail Braid.
Claims use since May 15, 1920.

Ser. No. 134,177. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CALVIN L. BEARDSLEY, Rock Island, Ill. Filed June 25, 1920.

QUEEN BESS

Particular description of goods.—Non-Intoxicating Imitation Wine Containing Less than One-Half of One Per Cent. of Alcohol, by Volume, and Sold as a Soft Drink.
Claims use since March, 1907.

Ser. No. 134,179. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BULLARD MACHINE TOOL CO., Bridgeport, Conn. Filed June 25, 1920.

MULTI-BAR

Particular description of goods.—Cutting-Tools for Metal-Working Machines, and Particularly Boring and Reaming Bars.
Claims use since Aug. 7, 1918.

Ser. No. 134,315. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed June 28, 1920.

JEWEL HAMMOCK

Particular description of goods.—Cultivators and Separate Parts Thereof.
Claims use since 1900.

Ser. No. 134,325. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PRIETO MACHINE COMPANY INC., Brooklyn, N. Y. Filed June 28, 1920.

IRENE

Particular description of goods.—Fiber-Decorticating Machinery.
Claims use since 1911.

Ser. No. 134,326. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROMARO MACHINE & TOOL CO. INC., New York, N. Y. Filed June 28, 1920.

STAFF

Particular description of goods.—Wrenches.
Claims use since about Dec. 1, 1919.

Ser. No. 134,343. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN TRADING CO., New York, N. Y. Filed June 29, 1920.

ZARINA

Particular description of goods.—Wheat-Flour.
Claims use since 1904.

Ser. No. 134,400. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE WINK-O PRODUCTS CO., Dunbar, W. Va. Filed June 29, 1920.

WINK-O

Particular description of goods.—Soap Packed in Tin Cans.
Claims use since Sept. 14, 1917.

Ser. No. 134,428. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y. Filed June 30, 1920.

PIERCE

Particular description of goods.—Lifting-Jacks.
Claims use since in or about the year 1901.

Ser. No. 134,432. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE RED BALL COMPANY, Madrid, Iowa. Filed June 30, 1920.

RED BALL

The disk being colored red.

Particular description of goods.—Soap Powder, Toilet and Laundry Soap, and Shaving Soap and Cream.

Claims use since August, 1918.

Ser. No. 134,441. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNITED DRUG COMPANY, Boston, Mass. Filed June 30, 1920.

Elkay's

Particular description of goods.—Compounds for Cleaning Fabrics, Straw, and the Hands.

Claims use since 1903.

Ser. No. 134,455. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISHOP & COMPANY, Los Angeles, Calif. Filed July 1, 1920.

O-SUCH-A

Particular description of goods.—Biscuits.

Claims use since May 1, 1920.

Ser. No. 134,488. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) A. STEIN & COMPANY, Chicago, Ill. Filed July 1, 1920.

HICKORY

Particular description of goods.—Garters and Hose-Supporters.

Claims use since about the month of July, 1912.

Ser. No. 134,489. (CLASS 39. CLOTHING.) A. STEIN & COMPANY, Chicago, Ill. Filed July 1, 1920.

DR. PARKER'S WAIST & GARTERS

No claim is made to the exclusive use of the words "Waist & Garters" apart from the mark shown.

Particular description of goods.—Combined Waists and Garters.

Claims use since about June, 1900.

Ser. No. 134,513. (CLASS 12. CONSTRUCTION MATERIALS.) LEUKOLITH G. m. B. H., Saarbrücken, Germany. Filed July 2, 1920.

Leukolith

Particular description of goods.—Mortar, Dry Mortar, Mortar-Forming Materials, Lime, Calcareous Cement, Artificial Stones, Beton.

Claims use since Nov. 25, 1919.

Ser. No. 134,527. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN B. ROSENFIELD, Oakland, Calif. Filed July 2, 1920.

AN-FO

Particular description of goods.—Animal Foods—viz., Calf-Meal.

Claims use since May 12, 1920,

Ser. No. 134,555. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE BUCKEYE INCUBATOR COMPANY, Springfield, Ohio. Filed July 6, 1920. Under ten-year proviso.

BUCKEYE

Particular description of goods.—Incubators and Brooders for Chicks.

Claims use since the year 1890.

Ser. No. 134,585. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HARVEY HUBBELL, INC., Bridgeport, Conn. Filed July 6, 1920.

Paraline

Particular description of goods.—Convertible Plug-Caps.

Claims use since June 23, 1920.

Ser. No. 134,586. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HARVEY HUBBELL, INC., Bridgeport, Conn. Filed July 6, 1920.

Paraline

Particular description of goods.—Convertible Plug-Caps.

Claims use since June 23, 1920.

Ser. No. 134,846. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE OWL SPECIALTY CO., Paterson, N. J. Filed July 12, 1920.



Particular description of goods.—Hat-Bands, Skirt and Dress Beltings, Pump-Bows, Shoe-Laces, Braids Made of Silk and Cotton, and Garment-Bindings.

Claims use since March, 1918.

Ser. No. 134,993. (CLASS 12. CONSTRUCTION MATERIALS.) THE YOUNGSTOWN PRESSED STEEL COMPANY, Youngstown, Ohio. Filed July 14, 1920.

IDEAL

Particular description of goods.—Metal Lath.

Claims use since 1905.

Ser. No. 135,022. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed July 15, 1920.

Walkoloy

Consists of the word "Walkoloy."

Particular description of goods.—Sheets, Plates, and Castings Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.

Claims use since Jan. 1, 1920.

Ser. No. 135,023. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed July 15, 1920.

Pyroloy

Consists of the word "Pyroloy."

Particular description of goods.—Sheets, Plates, and Castings Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.

Claims use since about Jan. 1, 1920.

Ser. No. 135,024. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed July 15, 1920.

Albroloy

Consists of the word "Albroloy."

Particular description of goods.—Sheets, Plates, and Castings Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.

Claims use since about Jan. 1, 1920.

Ser. No. 135,025. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed July 15, 1920.

Nocoloy

Consists of the word "Nocoloy."

Particular description of goods.—Sheets, Plates, and Castings Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.

Claims use since about Jan. 1, 1920.

Ser. No. 135,026. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed July 15, 1920.

Coroloy

Consists of the word "Coroloy."

Particular description of goods.—Sheets, Plates, and Castings Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.

Claims use since about Jan. 1, 1920.

Ser. No. 135,027. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa. Filed July 15, 1920.

Bidoloy

Consists of the word "Bidoloy."

Particular description of goods.—Sheets, Plates, and Castings Made from Ferrous and Non-Ferrous Metal Alloys, Including Alloys of Nickel and Copper.

Claims use since about Jan. 1, 1920.

Ser. No. 135,336. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE MARATHON TIRE & RUBBER COMPANY, Cuyahoga Falls, Ohio. Filed July 23, 1920.



Particular description of goods.—Leather, Fabric, or Rubber Belts for Supporting Outer Garments.

Claims use since Apr. 25, 1919.

Ser. No. 135,362. (CLASS 12. CONSTRUCTION MATERIALS.) FOXLEY STAVE & LUMBER CO., LTD., New Orleans, La. Filed July 24, 1920.



Particular description of goods.—Rough Lumber.

Claims use since 1908.

Ser. No. 135,363. (CLASS 12. CONSTRUCTION MATERIALS.) FOXLEY STAVE & LUMBER CO., LTD., New Orleans, La. Filed July 24, 1920.

F.Co

Particular description of goods.—Rough Lumber.

Claims use since 1908.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 24, 1920.

134,208. CANNED FISH, SALTED FISH, AND PICKLED FISH. ALASKA SALMON CO., San Francisco, Calif.
Filed March 22, 1920. Serial No. 130,005. PUBLISHED MAY 25, 1920.

134,209. CERTAIN NAMED SOUPS. AMERICAN "E" PRODUCTS COMPANY, Minneapolis, Minn.
Filed March 29, 1920. Serial No. 130,312. PUBLISHED MAY 25, 1920.

134,210. CERTAIN NAMED SOUPS. AMERICAN "E" PRODUCTS COMPANY, Minneapolis, Minn.
Filed March 29, 1920. Serial No. 130,313. PUBLISHED MAY 25, 1920.

134,211. UNSWEETENED EVAPORATED MILK. A. O. ANDERSEN & CO., Portland, Oreg.
Filed March 1, 1920. Serial No. 129,036. PUBLISHED MAY 11, 1920.

134,212. FERTILIZERS. ARMOUR FERTILIZER WORKS, Chicago, Ill.
Filed January 12, 1920. Serial No. 127,026. PUBLISHED MAY 18, 1920.

134,213. ICE-CREAM, FANCY CHOCOLATES, AND CREAMERY-BUTTER. ARCTIC CREAM CO., Fremont, Nebr.
Filed February 20, 1920. Serial No. 128,644. PUBLISHED MAY 25, 1920.

134,214. WHEAT-FLOUR. THE ATCHISON MILLS CORPORATION, Atchison, Kans.
Filed March 22, 1920. Serial No. 130,008. PUBLISHED MAY 11, 1920.

134,215. MACHINES FOR TIMING AND CONTROLLING THE OPERATION AND SIGNALING THE END OF OPERATION OF LAUNDRY-MACHINES. THE AUTOMATIC APPLIANCE COMPANY, St. Louis, Mo.
Filed January 26, 1920. Serial No. 127,573. PUBLISHED MAY 11, 1920.

134,216. MACHINES FOR TIMING THE OPERATION AND SIGNALING END OF OPERATION OF LAUNDRY-MACHINES. THE AUTOMATIC APPLIANCE COMPANY, St. Louis, Mo.
Filed January 26, 1920. Serial No. 127,574. PUBLISHED MAY 11, 1920.

134,217. CANNED MACKEREL. PETER BARNA, New York, N. Y.
Filed March 9, 1920. Serial No. 129,440. PUBLISHED MAY 11, 1920.

134,218. WHEAT-FLOUR AND BUCKWHEAT-FLOUR. BAY CITY MILLING COMPANY, Bay City, Mich.
Filed January 17, 1920. Serial No. 127,234. PUBLISHED MAY 11, 1920.

134,219. POTATO CHIPS, DOUGHNUTS, ZWIEBACK. GEO. H. BECKER, Baltimore, Md.
Filed April 8, 1920. Serial No. 130,797½. PUBLISHED MAY 25, 1920.

134,220. MAPLE-SUGAR. LYNN L. BOWLES, Franconia, N. H.
Filed March 16, 1920. Serial No. 129,777. PUBLISHED MAY 25, 1920.

134,221. MOVING-PICTURE FILMS. THE BRAY PICTURES CORPORATION, New York, N. Y.
Filed March 23, 1920. Serial No. 130,083. PUBLISHED MAY 11, 1920.

134,222. CANNED ADHESIVE RUBBER. FREDERICK F. BRINKER, Peoria, Ill.
Filed September 18, 1919. Serial No. 122,815. PUBLISHED MAY 25, 1920.

134,223. SALTED PEANUTS, PEANUT-BUTTER, COFFEE, TEA, COCOA. GEO. C. BROWNE, Elmira, N. Y.
Filed February 7, 1920. Serial No. 128,077. PUBLISHED MAY 25, 1920.

134,224. PAPER PATTERNS FOR MAKING MEN'S CLOTHES. ROBERT J. BURGAN, New York, N. Y.
Filed November 14, 1919. Serial No. 124,879. PUBLISHED MAY 18, 1920.

134,225. CONFECTIONERY—NAMELY, CHOCOLATE CANDIES, CHOCOLATE SPECIALTIES, AND SOLID CHOCOLATE CANDY. CANDY PRODUCTS CORPORATION, Chicago, Ill.
Filed March 1, 1920. Serial No. 129,043. PUBLISHED MAY 11, 1920.

134,226. TEA. CHASE & SANBORN, Boston, Mass.
Filed March 2, 1920. Serial No. 129,126. PUBLISHED MAY 11, 1920.

134,227. WHEAT-FLOUR AND SELF-RISING WHEAT-FLOUR. CITY MILLS COMPANY, Columbus, Ga.
Filed February 20, 1920. Serial No. 128,655. PUBLISHED MAY 11, 1920.

134,228. WHEAT-FLOUR AND SELF-RISING WHEAT-FLOUR. CITY MILLS COMPANY, Columbus, Ga.
Filed February 20, 1920. Serial No. 128,658. PUBLISHED MAY 11, 1920.

134,229. WHEAT-FLOUR. THE COLORADO MILLING & ELEVATOR CO., Denver, Colo.
Filed February 28, 1920. Serial No. 129,002. PUBLISHED MAY 25, 1920.

134,230. CORNMEAL. W. M. COBBY FLOUR & GRAIN CO., Birmingham, Ala.
Filed March 29, 1920. Serial No. 130,321. PUBLISHED MAY 25, 1920.

134,231. ICE-CREAM. DETROIT CREAMERY COMPANY, Detroit, Mich.
Filed September 8, 1919. Serial No. 122,425. PUBLISHED MAY 11, 1920.

134,232. VINEGAR. DIXIE FRUIT PRODUCTS CORPORATION, New York, N. Y.
Filed March 3, 1920. Serial No. 129,171. PUBLISHED MAY 11, 1920.

134,233. WHEAT-FLOUR. DONMEYER, GARDNER CO., Peoria, Ill.
Filed August 30, 1919. Serial No. 122,158. PUBLISHED MAY 11, 1920.

134,234. WHEAT-FLOUR. DONMEYER, GARDNER CO., Peoria, Ill.
Filed August 30, 1919. Serial No. 122,159. PUBLISHED MAY 11, 1920.

134,235. GLUE. M. FEIGEL & BRO. INC., New York, N. Y.
Filed March 13, 1920. Serial No. 129,628. PUBLISHED MAY 25, 1920.

134,236. BOUILLON-CUBES. ALFRED L. FREDEN, Brooklyn, N. Y.
Filed March 17, 1920. Serial No. 129,835. PUBLISHED MAY 25, 1920.

134,237. LIBRARY-PASTE, MUCILAGE. ROBERT T. FURMAN, New York, N. Y.
Filed October 20, 1919. Serial No. 124,000½. PUBLISHED MAY 25, 1920.

134,238. BARLEY-MALT FLOUR. THE GAMBRILL GRAIN PRODUCTS COMPANY, Baltimore, Md.
Filed April 1, 1920. Serial No. 130,468. PUBLISHED MAY 11, 1920.

134,239. OLEOMARGARIN. THE GLIDDEN NUT BUTTER COMPANY, Chicago, Ill.
Filed April 9, 1920. Serial No. 130,890. PUBLISHED MAY 25, 1920.

134,240. OLEOMARGARIN. THE GLIDDEN NUT BUTTER COMPANY, Chicago, Ill.
Filed April 9, 1920. Serial No. 130,891. PUBLISHED MAY 25, 1920.

134,241. CANNED SARDINES. GLOBE CANNING COMPANY, Eastport, Me.
Filed March 10, 1920. Serial No. 129,497. PUBLISHED MAY 11, 1920.

134,242. CANNED SARDINES. GLOBE CANNING COMPANY, Eastport, Me.
Filed March 10, 1920. Serial No. 129,498. PUBLISHED MAY 11, 1920.

134,243. CANNED SARDINES. GLOBE CANNING COMPANY, Eastport, Me.
Filed March 10, 1920. Serial No. 129,500. PUBLISHED MAY 11, 1920.

134,244. FRESH APPLES. JUDAH PIERCE GRAY, Nampa and Emmett, Idaho.
Filed March 29, 1920. Serial No. 130,327. PUBLISHED MAY 25, 1920.

134,245. EYEGLASSES. CHARLES L. HOGUE, Oakland, Calif.
Filed February 12, 1920. Serial No. 128,306. PUBLISHED MAY 18, 1920.

134,246. WHEAT-FLOUR. HORMEL MILLING COMPANY, Austin, Minn.
Filed March 25, 1920. Serial No. 130,170. PUBLISHED MAY 25, 1920.

134,247. CANDY. ROBERT A. JOHNSTON COMPANY, Milwaukee, Wis.
Filed March 24, 1920. Serial No. 130,142. PUBLISHED MAY 25, 1920.

134,248. TEA. HARRY A. JONES, Baltimore, Md.
Filed March 15, 1920. Serial No. 129,725. PUBLISHED MAY 25, 1920.

134,249. FRESH FRUITS—NAMELY, PEARS. JONES & PETTIGREW, San Francisco, Calif.
Filed March 15, 1920. Serial No. 129,724. PUBLISHED MAY 25, 1920.

134,250. CERTAIN NAMED FOODS. A. KICKBUSCH GROCERY CO., Wausau, Wis.
Filed December 27, 1919. Serial No. 126,526. PUBLISHED MAY 11, 1920.

134,251. BREAKFAST FOODS. VERNE D. LERSCH, Wellington, Ohio.
Filed February 17, 1920. Serial No. 128,510. PUBLISHED MAY 25, 1920.

134,252. COOKING COMPOUND COMPRISING OILS AND HYDROGENATED OILS. LEVER BROTHERS COMPANY, Cambridge, Mass.
Filed March 19, 1920. Serial No. 129,935. PUBLISHED MAY 25, 1920.

134,253. FRESH OYSTERS, CANNED OR OTHERWISE PUT UP. L. P. MAGGIONI & COMPANY, Savannah, Ga.
Filed December 8, 1919. Serial No. 125,712. PUBLISHED MAY 11, 1920.

134,254. FRESH OYSTERS, CANNED OR OTHERWISE PUT UP. L. P. MAGGIONI & COMPANY, Savannah, Ga.
Filed December 8, 1919. Serial No. 125,713. PUBLISHED MAY 11, 1920.

134,255. WEIGHING-SCALES. MASON, DAVIS & COMPANY, Chicago, Ill.
Filed February 21, 1920. Serial No. 128,737. PUBLISHED MAY 18, 1920.

134,256. FABRIC-MEASURING AND COST-COMPUTING MACHINES. THE MEASUREGRAPH COMPANY, St. Louis, Mo.
Filed January 24, 1920. Serial No. 127,561. PUBLISHED MAY 18, 1920.

134,257. EGGS SUBJECTED TO A PRESERVATIVE PROCESS. MUTUAL CREAMERY COMPANY, Salt Lake City, Utah.
Filed April 9, 1920. Serial No. 130,906. PUBLISHED MAY 25, 1920.

134,258. MACHINES FOR PRINTING, ISSUING, RECORDING, AND REGISTERING TICKETS, AND THEIR PARTS. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio.
Filed October 13, 1919. Serial No. 123,751. PUBLISHED MAY 18, 1920.

134,259. CEMENTITIOUS PREPARATION USABLE IN THE FORM OF A PUTTY. FRANK B. O'BRIEN, Chicago, Ill.
Filed February 5, 1920. Serial No. 128,012. PUBLISHED MAY 25, 1920.

134,260. CERTAIN NAMED FOODS. THE ODELSA MFG. CO., Oklahoma, Okla.
Filed April 2, 1920. Serial No. 130,549. PUBLISHED MAY 11, 1920.

134,261. OLEOMARGARIN. PALMINE COMPANY, INC., Dobbs Ferry, and New York, N. Y.
Filed March 16, 1920. Serial No. 129,797. PUBLISHED MAY 11, 1920.

134,262. CORN-FLOUR. THE PATENT CEREALS COMPANY, Geneva and New York, N. Y.
Filed March 1, 1920. Serial No. 129,078. PUBLISHED MAY 11, 1920.

134,263. CANNED FISH—NAMELY, CANNED SARDINES. PAXTON & GALLAGHER CO., Omaha, Nebr.
Filed March 1, 1920. Serial No. 120,079. PUBLISHED MAY 11, 1920.

134,264. ADHESIVE COMPOUND FOR MENDING AUTOMOBILE-RADIATORS, GASOLENE-TANKS, OIL-LINES, GAS-LINES AND THE LIKE. HOMER R. PENDLETON, Tulsa, Okla.
Filed December 20, 1919. Serial No. 126,290. PUBLISHED MAY 25, 1920.

134,265. INSTRUMENTS FOR INDICATING, MEASURING, AND RECORDING THE VELOCITY OF FLOWING STREAMS. THE PITOMETER COMPANY, New York, N. Y.
Filed November 7, 1918. Serial No. 114,083. PUBLISHED MAY 11, 1920.

134,266. CERTAIN NAMED COLD MEATS. POLLODORO RESTAURANT CO., INC., New York, N. Y.
Filed March 22, 1920. Serial No. 130,054. PUBLISHED MAY 25, 1920.

134,267. CORN-FLOUR, HOMINY, CORN-GRITS, CORN-MEAL, AND CREAM-MEAL. POSTUM CEREAL COMPANY, INC., Wilmington, Del., and Battle Creek, Mich.
Filed March 20, 1920. Serial No. 129,986. PUBLISHED MAY 11, 1920.

134,268. CITRUS FRUIT—NAMELY, ORANGES—AND FRESH FRUITS—NAMELY, GRAPES. LUCIUS POWERS, Fresno, Calif.
Filed March 1, 1920. Serial No. 129,081. PUBLISHED MAY 11, 1920.

134,269. CANNED FRUITS, CRUSHED FRUITS, FRUIT PRESERVES, AND FRUIT JAMS. PUYALLUP & SUMNER FRUIT GROWERS CANNING CO., Puyallup, Wash.
Filed March 15, 1920. Serial No. 129,746. PUBLISHED MAY 25, 1920.

134,270. CANDY. THE REDEL CANDY CORPORATION, Milwaukee, Wis.
Filed March 15, 1920. Serial No. 129,747. PUBLISHED MAY 25, 1920.

134,271. CANDY. THE REDEL CANDY CORPORATION, Milwaukee, Wis.
Filed March 15, 1920. Serial No. 129,748. PUBLISHED MAY 25, 1920.

134,272. CANDY. THE REDEL CANDY CORPORATION, Milwaukee, Wis.
Filed March 15, 1920. Serial No. 129,749. PUBLISHED MAY 25, 1920.

134,273. CANDY. THE REDEL CANDY CORPORATION, Milwaukee, Wis.
Filed March 15, 1920. Serial No. 129,750. PUBLISHED MAY 25, 1920.

134,274. OLIVE-OIL AND OTHER EDIBLE OILS. TORRES Y RIBELLES, Seville, Spain.
Filed March 12, 1919. Serial No. 116,505. PUBLISHED MAY 11, 1920.

134,275. CANNED FRUITS AND CANNED VEGETABLES. RICHMOND-CHASE COMPANY, San Jose, Calif.
Filed March 1, 1920. Serial No. 129,086. PUBLISHED MAY 11, 1920.

134,276. CERTAIN NAMED CANNED FRUITS AND CANNED VEGETABLES. RICHMOND-CHASE COMPANY, San Jose, Calif.
Filed March 1, 1920. Serial No. 129,087. PUBLISHED MAY 11, 1920.

134,277. CANNED FRUITS AND CANNED VEGETABLES. RICHMOND-CHASE COMPANY, San Jose, Calif.
Filed March 1, 1920. Serial No. 129,090. PUBLISHED MAY 11, 1920.

134,278. CANDY. RUSSELL & COMPANY INCORPORATED, Cambridge, Mass.
Filed March 23, 1920. Serial No. 130,107. PUBLISHED MAY 25, 1920.

134,279. CANNED VEGETABLES AND CANNED FRUITS. SAN JOSE CANNING CO., San Jose, Calif.
Filed March 22, 1920. Serial No. 130,064. PUBLISHED MAY 25, 1920.

134,280. CANNED VEGETABLES AND CANNED FRUITS. SAN JOSE CANNING CO., San Jose, Calif.
Filed March 22, 1920. Serial No. 130,066. PUBLISHED MAY 25, 1920.

134,281. ENVELOP-SEALING SLIPS AND ADHESIVE PAPER SEALS. WILLIAM SESSIONS, York, England.
Filed June 9, 1919. Serial No. 119,370. PUBLISHED MAY 25, 1920.

134,282. MOTION-PICTURE FILMS. SIMLEC FILM COMPANY, Pittsburgh, Pa.
Filed September 11, 1919. Serial No. 122,579. PUBLISHED MAY 18, 1920.

134,283. STOCK FEED. ST. ALBANS GRAIN COMPANY, St. Albans, Vt.
Filed April 5, 1920. Serial No. 130,692. PUBLISHED MAY 11, 1920.

134,284. DAIRY FEED. ST. ALBANS GRAIN COMPANY, St. Albans, Vt.
Filed April 5, 1920. Serial No. 130,695. PUBLISHED MAY 11, 1920.

134,285. CHOCOLATE. SUCHARD, S. A., Serrieres, Switzerland.
Filed March 16, 1920. Serial No. 129,812. PUBLISHED MAY 25, 1920.

134,286. WHEAT-FLOUR, CORNMEAL, AND ROLLED OATS. W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y.
Filed January 31, 1920. Serial No. 127,811. PUBLISHED MAY 25, 1920.

134,287. COFFEE. D. W. THACKER, Springfield, Ohio.
Filed March 5, 1920. Serial No. 129,294. PUBLISHED MAY 11, 1920.

134,288. CERTAIN NAMED FOODS. JOHN R. THOMPSON Co., Chicago, Ill.
Filed February 3, 1920. Serial No. 127,945. PUBLISHED MAY 25, 1920.

134,289. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,238. PUBLISHED MAY 18, 1920.

134,290. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,239. PUBLISHED MAY 18, 1920.

134,291. CERTAIN NAMED CANDIES, GLACÉ NUTS, AND BARLEY TOYS. Mrs. B. F. TILLEY, Jr., Jamestown, R. I.
Filed March 25, 1920. Serial No. 130,184. PUBLISHED MAY 25, 1920.

134,292. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed February 14, 1920. Serial No. 128,416. PUBLISHED MAY 11, 1920.

134,293. WHEAT-FLOUR. WASHBURN CROSBY CO., Minneapolis, Minn.
Filed March 18, 1920. Serial No. 129,917. PUBLISHED MAY 11, 1920.

134,294. WHEAT-FLOUR. WASHBURN-CROSBY COMPANY, Minneapolis, Minn.
Filed April 8, 1920. Serial No. 130,864. PUBLISHED MAY 11, 1920.

134,295. WHEAT-FLOUR. WASHBURN-CROSBY COMPANY, Minneapolis, Minn.
Filed April 8, 1920. Serial No. 130,865. PUBLISHED MAY 11, 1920.

134,296. WHEAT-FLOUR. WASHBURN-CROSBY COMPANY, Minneapolis, Minn.
Filed April 8, 1920. Serial No. 130,866. PUBLISHED MAY 11, 1920.

134,297. WHEAT-FLOUR. WASHBURN-CROSBY COMPANY, Minneapolis, Minn.
Filed April 8, 1920. Serial No. 130,868. PUBLISHED MAY 11, 1920.

134,298. CANDY. WESTMORELAND CANDY CO., INC., Richmond, Va.
Filed March 6, 1920. Serial No. 129,362. PUBLISHED MAY 11, 1920.

134,299. FRESH FRUITS—NAMELY, GRAPES. CLARENCE WILSON, Dinuba, Calif.
Filed March 1, 1920. Serial No. 129,116. PUBLISHED MAY 11, 1920.

134,300. BREAD. DANIEL P. WOOLLEY, Great Neck and New York, N. Y.
Filed February 19, 1920. Serial No. 128,632. PUBLISHED MAY 25, 1920.

134,301. COFFEE. THE WOOLSON SPICE COMPANY, Toledo, Ohio.
Filed March 10, 1920. Serial No. 129,522. PUBLISHED MAY 11, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920.]

AUGUST 24, 1920.

134,302. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) S. M. BIXBY & CO., INC., Brooklyn, N. Y. Filed May 4, 1920. Serial No. 132,002.

ShuWite

Particular description of goods.—Composition in Solid, Liquid, or Paste Form for the Treatment of and Application to White Shoes.
Claims use since 1906.

134,303. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) S. M. BIXBY & CO., INC., Brooklyn, N. Y. Filed May 4, 1920. Serial No. 132,003.

"JET-OIL"

Particular description of goods.—Shoe-Polishes.
Claims use since 1899.

134,304. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed May 15, 1920. Serial No. 132,492.

The Shelton Looms

Consisting of the phrase "The Shelton Looms."
Particular description of goods.—Pile Fabrics of All Kinds in the Piece.
Claims use since January, 1910.

134,305. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed June 1, 1920. Serial No. 133,134.

Tonquin Broche

Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since about the year 1908.

134,306. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed June 1, 1920. Serial No. 133,135.

Kensington

Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since about the year 1912.

134,307. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed June 1, 1920. Serial No. 133,136.

Bombay

Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since about the year 1904.

134,308. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed June 1, 1920. Serial No. 133,137.

Mysore

Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since about the year 1912.

134,309. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) COLUMBIAN ENAMELING & STAMPING CO., Terre Haute, Ind. Filed Apr. 27, 1920. Serial No. 131,698.

Ski-Blu

Particular description of goods.—Certain Named Enamel Ware.
Claims use since the 18th day of November, 1914.

134,310. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORKRAN, HILL & CO. INC., Baltimore, Md. Filed June 15, 1920. Serial No. 133,725.

OLD. DOMINION.

STYLE.

Particular description of goods.—Hams.
Claims use since 1910.

134,311. (CLASS 33. GLASSWARE.) CORNING GLASS WORKS, Corning, N. Y. Filed June 28, 1920. Serial No. 134,302.

CORNING

Particular description of goods.—Glass.
Claims use since Jan. 1, 1914.

134,312. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) G. CRAMER DRY PLATE COMPANY, St. Louis, Mo. Filed June 8, 1920. Serial No. 133,400.

HI SPEED

Particular description of goods.—Photographic Dry Plates and Photographic Films.
Claims use since on or about May 12, 1919.

134,313. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DE FOREST RADIO TELEPHONE AND TELEGRAPH COMPANY, New York, N. Y. Filed June 8, 1920. Serial No. 133,407.

RADIOPHONE

Particular description of goods.—Wireless Telegraph and Telephone Apparatus.
Claims use since Jan. 1, 1917.

134,314. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DE FOREST RADIO TELEPHONE AND TELEGRAPH COMPANY, New York, N. Y. Filed June 8, 1920. Serial No. 133,406.

RADIOFONE

Particular description of goods.—Wireless Telegraph and Telephone Apparatus.
Claims use since Jan. 1, 1917.

134,315. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DRAPER CORPORATION, Hopedale, Mass. Filed Apr. 30, 1920. Serial No. 131,880.

NORTHROP

Particular description of goods.—Looms and Parts of Looms.
Claims use since June, 1895.

134,316. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed May 17, 1920. Serial No. 132,523.

ENGLISH

Particular description of goods.—Writing-Paper.
Claims use since prior to January, 1900.

134,317. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Jan. 29, 1920. Serial No. 127,718.

GILLETTE

Particular description of goods.—Safety-Razors and Safety-Razor Blades.
Claims use since the fall of 1903.

134,318. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE W. H. HOWELL COMPANY, Geneva, Ill. Filed May 21, 1920. Serial No. 132,739.

JENSEN

Particular description of goods.—Tire-Pumps.
Claims use since Sept. 1, 1915.

134,319. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCCORMICK & CO., Baltimore, Md. Filed June 29, 1920. Serial No. 134,371.



Particular description of goods.—Insect-Powders.
Claims use since more than one year prior to Mar. 19, 1920.

134,320. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MCINTYRE-BURRALL COMPANY, Green Bay, Wis. Filed June 12, 1920. Serial No. 133,628.



Particular description of goods.—Harness-Leather and Shoe-Leather.
Claims use since May, 1908.

134,321. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) R. J. MUNN & BROS., Boston, Mass. Filed July 2, 1920. Serial No. 134,514.

FADELESS FLOWERS

Particular description of goods.—Artificial Flowers.
Claims use since early in 1900.

134,322. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) REO MOTOR CAR COMPANY, Lansing, Mich. Filed Aug. 28, 1919. Serial No. 122,084.

SPEED WAGON

Particular description of goods.—Light Motor-Trucks.
Claims use since May 3, 1919.

134,323. (CLASS 39. CLOTHING.) RIVOLI SILK HOSIERY CO., New York, N. Y. Filed May 19, 1920. Serial No. 132,659.

Rivoli

Particular description of goods.—Men's, Ladies,' and Children's Hosiery and Underwear, Knit or Woven.
Claims use since 1910.

134,324. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ALBERT W. SPROEHNLE, Chicago, Ill. Filed May 28, 1920. Serial No. 133,070.

STEWART

Particular description of goods.—Watches.
Claims use since June 1, 1900.

134,325. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) STOWELL GRIBBLE CHEMICAL COMPANY, Savannah, Ga. Filed June 3, 1920. Serial No. 133,230.

WAX--ALL

Particular description of goods.—Wax Automobile-Polish.
Claims use for one year.

134,326. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SULLIVAN MACHINERY COMPANY, Boston, Mass., and Chicago, Ill. Filed May 4, 1920. Serial No. 132,030.

SULLIVAN

Particular description of goods.—Certain Named Machinery.
Claims use since 1909.

134,327. (CLASS 27. HOROLOGICAL INSTRUMENTS.) TIFFANY NEVER WIND CLOCK CORPORATION, Buffalo, N. Y. Filed Mar. 29, 1920. Serial No. 130,346.

TIFFANY Never-Wind

Particular description of goods.—Electric Clocks and Parts Thereof.
Claims use since December, 1916.

134,328. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACE & CO., Brooklyn, N. Y. Filed May 24, 1920. Serial No. 132,906.

"Candies of Character"

Particular description of goods.—Chocolates and Candies.
Claims use since August, 1916.

134,329. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACE & Co., Brooklyn, N. Y. Filed May 24, 1920. Serial No. 132,907.

Chocolate Dainties

Particular description of goods.—Chocolate Candies.
Claims use since August, 1903.

134,330. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) JOHN WOOD MFG. CO., CONSHOHOCKEN, Pa. Filed Dec. 13, 1919. Serial No. 125,986.

Electric Weld

Particular description of goods.—Range-Boilers, Expansion-Tanks, Combination-Boilers, and Gas Water-Heaters.
Claims use since 1901.

TRADE-MARK REGISTRATIONS RENEWED.

17,950. NEWSPAPERS. ORANGE JUDD CO., New York, N. Y.
Registered May 27, 1890. Renewed May 27, 1920.

18,031. NEWSPAPERS. PHELPS PUBLISHING COMPANY, Springfield, Mass.; Orange Judd Company, assignee. Registered June 17, 1890. Renewed June 17, 1920.

LABELS

REGISTERED AUGUST 24, 1920.

21,983.—*Title:* "PRONTO." (For Fire-Extinguishing Compound.) THE ALLEN CORPORATION, New York, N. Y. Filed January 20, 1920.

21,984.—*Title:* "JAZZ HAND WASH." (For Hand-Soap or Hand-Wash.) AMERICAN SOAP COMPANY, Oakland, Calif. Filed January 15, 1920.

21,985.—*Title:* "PRIZE DOMINOES POP CORN CONFECTION." (For a Pop-Corn Confection.) THE BAXTER CANDY COMPANY, Grand Junction, Colo. Filed January 14, 1920.

21,986.—*Title:* "PEANUT BAR." (For Candies—Namely, Peanut Bars.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed March 6, 1920.

21,987.—*Title:* "SPICEFIELD." (For Cotton Thread.) BOSTON THREAD CO., New York, N. Y. Filed January 31, 1920.

21,988.—*Title:* "IRIS." (For Cotton Thread.) BOSTON THREAD CO., New York, N. Y. Filed January 31, 1920.

21,989.—*Title:* "NEUTRAL." (For Cotton Thread.) BOSTON THREAD CO., New York, N. Y. Filed January 31, 1920.

21,990.—*Title:* "WILD HY-BALL." (For Non-Intoxicating Beverages.) ROBERT A. BRACHVOGEL, Chicago, Ill. Filed October 3, 1919.

21,991.—*Title:* "THE CASWELL BLEND." (For Coffee.) GEORGE W. CASWELL CO., San Francisco, Calif. Filed January 6, 1920.

21,992.—*Title:* "CLEM'S PURE PAINTS." (For Ready-Mixed Paints.) CLEM LUMBER CO., Dallas, Tex. Filed January 26, 1920.

21,993.—*Title:* "CHERRY TONIC." (For a System-Tonic.) THE CHERRY TONE MEDICINE CO. INC., Charlotte, N. C. Filed September 9, 1919.

21,994.—*Title:* "ROMAR." (For Coffee.) COFFEE PRODUCTS COMPANY, Cleveland, Ohio. Filed November 8, 1919.

21,995.—*Title:* "ELASTICAP." (For Splice-Insulators for Electric Conductors.) THE ELASTICAP COMPANY, Hoboken, N. J. Filed October 16, 1919.

21,996.—*Title:* "A LITTLE GOES A LONG WAY." (For Preparation for Treatment of the Hair.) H. EVANS, Waco, Tex. Filed December 6, 1919.

21,997.—*Title:* "ALL-SIZE-CAP." (For Cloth Caps.) FINE & LEVY, New York, N. Y. Filed December 9, 1919.

21,998.—*Title:* "GINGER ALE." (For Ginger-Ale.) FRANK M. FOX & CO., Saegerstown, Pa. Filed December 15, 1919.

21,999.—*Title:* "FOX TROT CARBONATED LAXATIVE." (For Carbonated Laxative.) FRANK M. FOX & CO., Saegerstown, Pa. Filed December 15, 1919.

22,000.—*Title:* "GARDEN CITY MOTO OILS." (For Lubricating-Oils.) GARDEN CITY OIL CO., Chicago, Ill. Filed January 26, 1920.

22,001.—*Title:* "GOOD WILL CRAVATS." (For Cravats.) GELLES & WEISSMAN, New York, N. Y. Filed July 28, 1919.

22,002.—*Title:* "GRAINO." (For Soaps.) GRAIN SOAPS CORPORATION, Dover, Del. Filed January 7, 1920.

22,003.—*Title:* "LAURITSEN'S HOME MADE BUTTER SCOTCH." (For Butter-Scotch.) GRAPHIC LABEL WORKS, Chicago, Ill. Filed December 20, 1919.

22,004.—*Title:* "EVERY BITE A DELIGHT." (For Fried Cakes and Cookies.) GRENNAN CAKE CORPORATION, Chicago, Ill. Filed November 6, 1919.

22,005.—*Title:* "HEDGES-BUCK CO. BRAND." (For Black Pepper.) HEDGES-BUCK COMPANY, Stockton, Calif. Filed September 24, 1918.

22,006.—*Title:* "POP'S PEERLESS POLISH." (For a Polish.) EDWARD L. HESS, Brooklyn, N. Y. Filed December 26, 1919.

22,007.—*Title:* "MAN-HEIL AUTOMATIC INHALER." (For Inhalers.) FREDERICK HEILMAN COMPANY, Johnstown, Pa. Filed December 11, 1919.

22,008.—*Title:* "J. L. HOPKINS & CO." (For Milled Crude Drugs.) J. L. HOPKINS & CO., New York, N. Y. Filed December 24, 1919.

22,009.—*Title:* "LEATHER LAC." (For Preparation for Refinishing Leather Articles.) THE R. F. JOHNSTON PAINT COMPANY, Cincinnati, Ohio. Filed October 11, 1919.

22,010.—*Title:* "LIFE BELT." (For Coffee.) KAFFEE HAG CORPORATION, New York, N. Y. Filed January 30, 1920.

22,011.—*Title:* "OXYDENE." (For a Disinfectant, Sterilizer, Germicide, and Deodorant.) LACTEAL ANALYTICAL LABORATORIES, INC., Buffalo, N. Y. Filed January 13, 1920.

22,012.—*Title:* "RED TOP." (For Evaporated Milk.) THEODORE C. LEEDOM, Toledo, Ohio, and Oil City, Pa. Filed November 25, 1919.

22,013.—*Title:* "THE ACE." (For Caps, Sweaters, and Fancy Knit Goods.) THE LION KNITTING MILLS CO., Cleveland, Ohio. Filed July 28, 1919.

22,014.—*Title:* "ANTIPLASMA LABEL." (For Malarial Medicine.) MALARIAL SPECIFIC COMPANY, INC., New York, N. Y. Filed January 2, 1920.

22,015.—*Title:* "AMERICAN DISINFECTANT." (For American Disinfectant.) PETER A. MANDABACH, Chicago, Ill. Filed December 22, 1919.

22,016.—*Title:* "PAGLIACCI BRAND." (For Macaroni.) MILWAUKEE MACARONI CO., Milwaukee, Wis. Filed November 7, 1919.

22,017.—*Title:* "CHOCOLATE COVERED CHERRIES." (For Chocolate Cherries.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed December 10, 1919.

22,018.—*Title:* "TWENTIETH CENTURY CHOCOLATES." (For Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed March 8, 1920.

22,019.—*Title:* "THE BAL MASQUE." (For Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed December 6, 1919.

22,020.—*Title:* "MILK CHOCOLATES." (For Milk Chocolates.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed January 15, 1920.

22,021.—*Title:* "MILKMAID BREAD." (For Bread.) NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J.: Columbus, Ohio, and New York, N. Y. Filed December 15, 1919.

22,022.—*Title:* "NEKCO." (For California Kippered Sardines.) NIELSEN & KITTLE CANNING COMPANY, LTD., East San Pedro, Calif. Filed March 15, 1920.

22,023.—*Title:* "MARINE PAINTS." (For Paints.) OCEAN PAINT WORKS, INC., Brooklyn, N. Y. Filed March 6, 1920.

22,024.—*Title:* "MERMAID PAINTS." (For Paints.) OCEAN PAINT WORKS, INC., Brooklyn, N. Y. Filed March 6, 1920.

22,025.—*Title:* "ORCICO." (For Cigars.) THE ORRISON CIGAR CO., INC., Bethesda, Ohio. Filed January 8, 1920.

22,026.—*Title:* "BIG '6' CHOCOLATE." (For Vanilla Sweet Chocolate.) PENNSYLVANIA CHOCOLATE COMPANY, Pittsburgh, Pa. Filed January 29, 1920.

22,027.—*Title:* "HOSPITAL CARBOLIC OIL SOAP." (For Carbolic-Oil Soap.) THE J. T. ROBERTSON COMPANY, Syracuse, N. Y. Filed June 1, 1918.

22,028.—*Title:* "LION BRAND, FRESH WHEY CHEESE." (For Cheese.) SANNA COMPANY, INC., New York, N. Y. Filed August 11, 1919.

22,029.—*Title:* "SEAL-FAST." (For Repair-Patches for Automobile-Tubes.) SEAL-FAST MFG. CO., Indianapolis, Ind. Filed November 8, 1919.

22,030.—*Title:* "SMITH'S HAND-MADE CANDY." (For Candy.) E. A. SMITH, Tifton, Ga. Filed January 30, 1920.

22,031.—*Title:* "BULLY BOY CORDIAL APRICOT FLAVOR." (For a Non-Alcohol Drink.) SOUTHERN FOOD PRODUCTS CO., Cincinnati, Ohio. Filed January 24, 1920.

22,032.—*Title:* "THOMPSON'S." (For Pure Food Products.) JOHN R. THOMPSON CO., Chicago, Ill. Filed December 9, 1919.

22,033.—*Title:* "FLAVORITE BRAND APPLES." (For Apples.) UNIVERSITY HEIGHTS FARMS CO., Darby, Mont. Filed January 17, 1920.

22,034.—*Title:* "VICTORY CANNING & PACKING COS. BRAND." (For Canned Artichokes.) VICTORY CANNING & PACKING COMPANY, Los Angeles, Calif. Filed July 26, 1919.

22,035.—*Title:* "LA BELLE HAIR NET." (For Hair-Nets.) AUGUSTUS A. WEST, Philadelphia, Pa. Filed January 7, 1920.

22,036.—*Title:* "PUT-OVER-ALL." (For Overalls.) THE WIGWAM CO. INC., Syracuse, N. Y. Filed November 29, 1919.

22,037.—*Title:* "DIFFUSELITE." (For Paints.) THE J. G. WILSON CORPORATION, Norfolk, Va. Filed September 10, 1919.

22,038.—*Title:* "PAINTING FOR LIGHT." (For Paints.) THE J. G. WILSON CORPORATION, Norfolk, Va. Filed September 10, 1919.

22,039.—*Title:* "GREAT GENERALS." (For Cut Smoking-Tobacco and Cigars.) JAMES E. M. WRIGHT, Portsmouth, Va. Filed February 21, 1920.

22,040.—*Title:* "RITE FIT TROUSERS." (For Men's Trousers.) LEO ZUCKER and EDWARD WEINSHEL, Milwaukee, Wis. Filed December 1, 1919.

PRINTS

REGISTERED AUGUST 24, 1920.

5,292.—*Title:* "YOU WILL NOT REGRET IT—IF YOU CONDULET IT." (For Condulets.) CROUSE-HINDS CO., Syracuse, N. Y. Filed October 25, 1919.

5,293.—*Title:* "MAKE YOUR OWN INK." (For a Powdered Ink.) THE ECONOMY INK COMPANY, Cincinnati, Ohio. Filed February 14, 1919.

5,294.—*Title:* "GOLD DUST—A REAL HELP AT PRESERVING TIME." (For Washing-Powder.) THE N. K. FAIRBANK COMPANY, Chicago, Ill. Filed September 25, 1919.

5,295.—*Title:* "THE NEW 1920 HAYNES TOURING CAR." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,296.—*Title:* "THE NEW SERIES HAYNES BROUGHAM." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,297.—*Title:* "THE NEW SERIES HAYNES BROUGHAM." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,298.—*Title:* "THE NEW 1920 HAYNES ROADSTER." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,299.—*Title:* "THE NEW SERIES HAYNES COUPÉ." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,300.—*Title:* "THE NEW SERIES HAYNES SUBURBAN." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,301.—*Title:* "THE NEW SERIES HAYNES COUPÉ." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,302.—*Title:* "THE NEW 1920 HAYNES TOURING CAR." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,303.—*Title:* "THE NEW SERIES HAYNES SUBURBAN." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,304.—*Title:* "THE NEW 1920 HAYNES ROADSTER." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,305.—*Title:* "PURE AS GOLD TRANSPARENT AS TRUTH." (For Kirk's Jap Rose Soap.) JAMES S. KIRK & COMPANY, Chicago, Ill. Filed March 15, 1920.

5,306.—*Title:* "WINTER'S CHILLY TEMPERATURE DOES NOT AFFECT NUREX." (For Tabbing Compounds.) THE LEE HARDWARE CO., Salina, Kans. Filed December 20, 1919.

5,307.—*Title:* "SKOOKUM AMERICA'S SUPREME APPLES—WHO CAN RESIST THEM?" (For Apples.) NORTHWESTERN FRUIT EXCHANGE, New York, N. Y. Filed December 27, 1919.

5,308.—*Title:* "EVERY COMPLEXION NEEDS SOAP." (For Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed March 10, 1920.

5,309.—*Title:* "THE WAY TO ROSE COMPLEXIONS." (For Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed March 13, 1920.

5,310.—*Title:* "RE-INCARNATION OF BEAUTY." (For Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed January 16, 1920.

5,311.—*Title:* "RELY ON RELIANCE." (For Work-Shirts.) RELIANCE MFG. COMPANY, Chicago, Ill. Filed February 20, 1920.

5,312.—*Title:* "NAILING THE RIGHT BOWER EVERY TIME THE DECK'S DEALT." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,313.—*Title:* "PRINCE ALBERT THE NATIONAL CHRISTMAS JOY SMOKE." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,314.—*Title:* "YOU'RE WISE-O THAT YOU'VE BEEN CHECKING SMOKESPORT." (For Smoking-Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,315.—*Title:* "TAKING AWKWARD ANGLES OUT OF THE EARLY CHRISTMAS MORNING ATMOSPHERE." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,316.—*Title:* "TALK ABOUT HANDING YOURSELF A BIRTH-DAY-BLOW-OUT WITH BELLS ON." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed December 20, 1919.

5,317.—*Title:* "DRINK GREEN RIVER THE SNAPPY LIME DRINK." (For Non-Alcoholic Beverage—Namely, a Lime Drink.) SCHOENHOFEN COMPANY, Chicago, Ill. Filed December 11, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

BLAINE *v.* WHITE.

Decided June 2, 1920.

PATENTS—INTERFERENCE—REVIEW OF CONCURRING DECISIONS OF THE PATENT OFFICE.

Where the line which separates the respective contentions of the parties to an interference is quite attenuated and not easily perceived and the just consideration of the case calls for expert knowledge, the concurring decisions of the Patent Office tribunals will not be disturbed by the court except where error very clearly appears.

Mr. L. T. Greist and *Mr. W. N. Cromwell* for the appellant.

Mr. J. Edgar Bull for the appellee.

SMYTH, *C. J.:*

Blaine appeals from an award of priority against him in an interference proceeding. The invention involved relates to a sheet-guide adjustment on a printing-press. We do not think it necessary to set out any of the counts of the issue in view of the manner in which we think the matter should be disposed of. Blaine moved to dissolve the interference on the ground that count 1 was unpatentable in view of the prior art, and that the party White had no right to make count 2 of the issue. This motion was overruled by the Law Examiner. Blaine stood upon the record, took no testimony, and judgment of priority was given against him, he being the junior party. Afterward he filed several motions in the Office, all of which were denied. On appeal from the decision of the Examiner of Interferences he was defeated before the Board of Examiners, and their action was affirmed by the First Assistant Commissioner.

The subject involved is intricate, and its just consideration calls for expert knowledge. The line which separates the respective contentions of the parties is quite attenuated and not easily perceived. It is the settled rule of this court that where the three tribunals of the Patent Office concur in the disposition of such a case, the decision of the Commissioner will not be disturbed by this court except where error very clearly appears. (*Creveling* v. *Jepson*, 47 App. D. C., 597; *Lindmark* v. *Hodgkinson*, 31 App. D. C., 612; *Murphy* v. *Meissner*, 24 App. D. C., 260; *Stone* v. *Pupin*, 19 App. D. C., 396; *Podlesak* v. *McInnerney*, 26 App. D. C., 399.)

Blaine admits the rule but denies its applicability. He says that the three tribunals, while reaching the same conclusion, did so by different routes, some of which are inconsistent, or at least are not identical with the others. We think not. The Law Examiner held that the counts were patentable and readable upon the disclosures of both parties. In this he was affirmed by the Examiner of Interferences. On appeal the Board of Examiners rejected Blaine's contention that the counts were inconsistent, and refused to consider the prior art, because the meaning of the counts were not obscure and therefore needed no construction.

The necessity for judicial construction never arises until uncertainty is encountered. *Mayo* v. *Whedon*, 47 App. D. C., 138, 140.

The Board sustained the lower tribunals in their holding that the counts were patentable and readable on the claims of both parties. In this they were affirmed by the Assistant Commissioner, who held that Blaine had in no way established that the claims were not readable on the application of White. Having failed to do this, White was necessarily entitled to priority, being the senior party, and Blaine taking no testimony to overcome his date. We think the rule pertinent, and that there is a total absence of such error as would warrant us in overruling the Commissioner.

There is nothing in *Podlesak* v. *McInnerney* (26 App. D. C., 399) requiring a different conclusion. It was there ruled that if a certain course was followed in construing the claims, it might be found that there was no interference in fact, and the court sent the matter back to the Patent Office "for further consideration as to the identity of invention." Between this and what was held in the instant case we perceive no conflict.

For the reasons stated the decision of the Patent Office is affirmed and priority is awarded to Joseph White, the senior party.

Affirmed.

Court of Appeals of the District of Columbia.

BRUCKMAN *v.* MILLER.

Decided June 2, 1920.

1. PATENTS—INTERFERENCE—REOPENING AFTER APPEAL TO COMMISSIONER TO TAKE FURTHER PROOFS.

In an interference between B. and M., in which the question was one of originality, where, after hearing on appeal to the Commissioner from a decision of the Ex-

22,029.—*Title:* "SEAL-FAST." (For Repair-Patches for Automobile-Tubes.) SEAL-FAST MFG. CO., Indianapolis, Ind. Filed November 8, 1919.

22,030.—*Title:* "SMITH'S HAND-MADE CANDY." (For Candy.) E. A. SMITH, Tifton, Ga. Filed January 30, 1920.

22,031.—*Title:* "BULLY BOY CORDIAL APRICOT FLAVOR." (For a Non-Alcohol Drink.) SOUTHERN FOOD PRODUCTS CO., Cincinnati, Ohio. Filed January 24, 1920.

22,032.—*Title:* "THOMPSON'S." (For Pure Food Products.) JOHN R. THOMPSON CO., Chicago, Ill. Filed December 9, 1919.

22,033.—*Title:* "FLAVORITE BRAND APPLES." (For Apples.) UNIVERSITY HEIGHTS FARMS CO., Darby, Mont. Filed January 17, 1920.

22,034.—*Title:* "VICTORY CANNING & PACKING COS. BRAND." (For Canned Artichokes.) VICTORY CANNING & PACKING COMPANY, Los Angeles, Calif. Filed July 26, 1919.

22,035.—*Title:* "LA BELLE HAIR NET." (For Hair-Nets.) AUGUSTUS A. WEST, Philadelphia, Pa. Filed January 7, 1920.

22,036.—*Title:* "PUT-OVER-ALL." (For Overalls.) THE WIGWAM CO. INC., Syracuse, N. Y. Filed November 29, 1919.

22,037.—*Title:* "DIFFUSELITE." (For Paints.) THE J. G. WILSON CORPORATION, Norfolk, Va. Filed September 10, 1919.

22,038.—*Title:* "PAINTING FOR LIGHT." (For Paints.) THE J. G. WILSON CORPORATION, Norfolk, Va. Filed September 10, 1919.

22,039.—*Title:* "GREAT GENERALS." (For Cut Smoking-Tobacco and Cigars.) JAMES E. M. WRIGHT, Portsmouth, Va. Filed February 21, 1920.

22,040.—*Title:* "RITE FIT TROUSERS." (For Men's Trousers.) LEO ZUCKER and EDWARD WEINSHEL, Milwaukee, Wis. Filed December 1, 1919.

PRINTS

REGISTERED AUGUST 24, 1920.

5,292.—*Title:* "YOU WILL NOT REGRET IT—IF YOU CONDULET IT." (For Conduletes.) CROUSE-HINDS CO., Syracuse, N. Y. Filed October 25, 1919.

5,293.—*Title:* "MAKE YOUR OWN INK." (For a Powdered Ink.) THE ECONOMY INK COMPANY, Cincinnati, Ohio. Filed February 14, 1919.

5,294.—*Title:* "GOLD DUST—A REAL HELP AT PRESERVING TIME." (For Washing-Powder.) THE N. K. FAIRBANK COMPANY, Chicago, Ill. Filed September 25, 1919.

5,295.—*Title:* "THE NEW 1920 HAYNES TOURING CAR." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,296.—*Title:* "THE NEW SERIES HAYNES BROUGHAM." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,297.—*Title:* "THE NEW SERIES HAYNES BROUGHAM." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,298.—*Title:* "THE NEW 1920 HAYNES ROADSTER." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,299.—*Title:* "THE NEW SERIES HAYNES COUPÉ." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,300.—*Title:* "THE NEW SERIES HAYNES SUBURBAN." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,301.—*Title:* "THE NEW SERIES HAYNES COUPÉ." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,302.—*Title:* "THE NEW 1920 HAYNES TOURING CAR." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,303.—*Title:* "THE NEW SERIES HAYNES SUBURBAN." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,304.—*Title:* "THE NEW 1920 HAYNES ROADSTER." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 15, 1920.

5,305.—*Title:* "PURE AS GOLD TRANSPARENT AS TRUTH." (For Kirk's Jap Rose Soap.) JAMES S. KIRK & COMPANY, Chicago, Ill. Filed March 15, 1920.

5,306.—*Title:* "WINTER'S CHILLY TEMPERATURE DOES NOT AFFECT NUREX." (For Tabbing Compounds.) THE LEE HARDWARE CO., Salina, Kans. Filed December 20, 1919.

5,307.—*Title:* "SKOOKUM AMERICA'S SUPREME APPLES—WHO CAN RESIST THEM?" (For Apples.) NORTHWESTERN FRUIT EXCHANGE, New York, N. Y. Filed December 27, 1919.

5,308.—*Title:* "EVERY COMPLEXION NEEDS SOAP." (For Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed March 10, 1920.

5,309.—*Title:* "THE WAY TO ROSE COMPLEXIONS." (For Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed March 13, 1920.

5,310.—*Title:* "RE-INCARNATION OF BEAUTY." (For Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed January 16, 1920.

5,311.—*Title:* "RELY ON RELIANCE." (For Work-Shirts.) RELIANCE MFG. COMPANY, Chicago, Ill. Filed February 20, 1920.

5,312.—*Title:* "NAILING THE RIGHT BOWER EVERY TIME THE DECK'S DEALT." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,313.—*Title:* "PRINCE ALBERT THE NATIONAL CHRISTMAS JOY SMOKE." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,314.—*Title:* "YOU'RE WISE-O THAT YOU'VE BEEN CHECKING SMOKESPORT." (For Smoking-Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,315.—*Title:* "TAKING AWKWARD ANGLES OUT OF THE EARLY CHRISTMAS MORNING ATMOSPHERE." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,316.—*Title:* "TALK ABOUT HANDING YOURSELF A BIRTH-DAY-BLOW-OUT WITH BELLS ON." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed December 20, 1919.

5,317.—*Title:* "DRINK GREEN RIVER THE SNAPPY LIME DRINK." (For Non-Alcoholic Beverage—Namely, a Lime Drink.) SCHOENHOFEN COMPANY, Chicago, Ill. Filed December 11, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

BLAINE *v.* WHITE.

Decided June 2, 1920.

PATENTS—INTERFERENCE—REVIEW OF CONCURRING DECISIONS OF THE PATENT OFFICE.

Where the line which separates the respective contentions of the parties to an interference is quite attenuated and not easily perceived and the just consideration of the case calls for expert knowledge, the concurring decisions of the Patent Office tribunals will not be disturbed by the court except where error very clearly appears.

Mr. L. T. Greist and *Mr. W. N. Cromwell* for the appellant.

Mr. J. Edgar Bull for the appellee.

SMYTH, *C. J.:*

Blaine appeals from an award of priority against him in an interference proceeding. The invention involved relates to a sheet-guide adjustment on a printing-press. We do not think it necessary to set out any of the counts of the issue in view of the manner in which we think the matter should be disposed of. Blaine moved to dissolve the interference on the ground that count 1 was unpatentable in view of the prior art, and that the party White had no right to make count 2 of the issue. This motion was overruled by the Law Examiner. Blaine stood upon the record, took no testimony, and judgment of priority was given against him, he being the junior party. Afterward he filed several motions in the Office, all of which were denied. On appeal from the decision of the Examiner of Interferences he was defeated before the Board of Examiners, and their action was affirmed by the First Assistant Commissioner.

The subject involved is intricate, and its just consideration calls for expert knowledge. The line which separates the respective contentions of the parties is quite attenuated and not easily perceived. It is the settled rule of this court that where the three tribunals of the Patent Office concur in the disposition of such a case, the decision of the Commissioner will not be disturbed by this court except where error very clearly appears. (*Creveling* v. *Jepson*, 47 App. D. C., 597; *Lindmark* v. *Hodgkinson*, 31 App. D. C., 612; *Murphy* v. *Meissner*, 24 App. D. C., 260; *Stone* v. *Pupin*, 19 App. D. C., 396; *Podlesak* v. *McInnerney*, 26 App. D. C., 399.)

Blaine admits the rule but denies its applicability. He says that the three tribunals, while reaching the same conclusion, did so by different routes, some of which are inconsistent, or at least are not identical with the others. We think not. The Law Examiner held that the counts were patentable and readable upon the disclosures of both parties. In this he was affirmed by the Examiner of Interferences. On appeal the Board of Examiners rejected Blaine's contention that the counts were inconsistent, and refused to consider the prior art, because the meaning of the counts were not obscure and therefore needed no construction.

The necessity for judicial construction never arises until uncertainty is encountered. *Mayo* v. *Whedon*, 47 App. D. C., 138, 140.

The Board sustained the lower tribunals in their holding that the counts were patentable and readable on the claims of both parties. In this they were affirmed by the Assistant Commissioner, who held that Blaine had in no way established that the claims were not readable on the application of White. Having failed to do this, White was necessarily entitled to priority, being the senior party, and Blaine taking no testimony to overcome his date. We think the rule pertinent, and that there is a total absence of such error as would warrant us in overruling the Commissioner.

There is nothing in *Podlesak* v. *McInnerney* (26 App. D. C., 399) requiring a different conclusion. It was there ruled that if a certain course was followed in construing the claims, it might be found that there was no interference in fact, and the court sent the matter back to the Patent Office "for further consideration as to the identity of invention." Between this and what was held in the instant case we perceive no conflict.

For the reasons stated the decision of the Patent Office is affirmed and priority is awarded to Joseph White, the senior party.

Affirmed.

Court of Appeals of the District of Columbia.

BRUCKMAN *v.* MILLER.

Decided June 2, 1920.

1. PATENTS—INTERFERENCE—REOPENING AFTER APPEAL TO COMMISSIONER TO TAKE FURTHER PROOFS.

In an interference between B. and M., in which the question was one of originality, where, after hearing on appeal to the Commissioner from a decision of the Ex-

aminers-in-Chief awarding priority to M., B. filed a motion to reopen the interference to take the testimony of M., supporting the motion by affidavits executed by M. to the effect that B. disclosed the invention to him, it was error to refuse the motion to reopen.

2. SAME—SAME—POWER OF COMMISSIONER TO REOPEN INTERFERENCE TO TAKE ADDITIONAL TESTIMONY.

Interference proceedings are of an equitable nature, and so long as a case is pending in the Patent Office it is within the supervision of the Commissioner, who is charged with the duty of seeing that full justice is done, and he may, under his supervisory power, order a case reopened for the taking of additional testimony.

3. SAME—SAME—ORIGINALITY.

In an interference between B. and M., involving the question of originality, evidence considered and *Held* that B. disclosed the invention in issue to M.

Mr. A. E. Dieterich for the appellant.

Mr. F. S. Geisler for the appellee.

VAN ORSDEL, *J:*

The issue of this interference relates to the invention of a machine for making cones used as receptacles for ice-cream.

It is unnecessary to set out the claims or to consider the invention in detail, since the appeal turns wholly upon the question of originality.

It is urged by appellant, the junior party, that appellee Miller derived from him the information which enabled him to file his application for patent.

Certain conceded facts are important. Both parties were employed by the Crystal Ice & Storage Company, of Portland, Oreg. Miller had access to the room where Bruckman was engaged in building a rotary cone-making machine which he had invented, and of which the present invention is a modification. Miller admits that he frequently visited the room where Bruckman was at work, and admits that Bruckman disclosed to him the broad idea of the present invention, but denies that he derived from him any information as to the details by which the problem could be solved.

The Examiner of Interferences found in favor of Bruckman, but was reversed by the Board of Examiners-in-Chief and the Assistant Commissioner, upon the ground, as stated by the Commissioner—

if the claims cover broadly the mere reversal of the moving parts (the molds and the batter carriage) in the machine of this patent, then it is clear that either there was no invention, or that Miller got the broad idea from Bruckman. If, on the other hand, the invention is more narrowly the specific means of operating; that is to say, the solution of the problem of reversing the relative motions of the heavy and light parts,—then Bruckman entirely fails to show any disclosure to Miller.

We are convinced from a careful review of the testimony that Bruckman not only disclosed to Miller the broad idea of the invention, but the means of operation, to enable Miller, with the additional knowledge he had of the Bruckman rotary machine then in course of construction, and with the assistance of counsel, to prepare his application for patent. In these matters Miller stands alone, while Bruckman is amply corroborated. This deduction from the testimony is verified, however, by the sworn admissions of Miller. When the case was pending on appeal before the Assistant Commissioner, Miller voluntarily made two affidavits in which he admitted that he derived the whole invention from Bruckman. He states in the first affidavit as follows:

I make this affidavit for the reason that I have been instrumental in causing Mr. Bruckman a good deal of trouble and expense and that Mr. Bruckman originated the idea of the machine I have been heretofore claiming as my own.

In the second affidavit, after stating in detail the circumstances under which he derived the information from Bruckman, he says:

As heretofore stated, I made this affidavit and the affidavit dated December 25, 1918, of my own free will; that I have not received any money or property of any kind or promise of reward for making the same; that I voluntarily approached Mr. Bruckman and told him what I would do; that we have discussed what occurred, when he was working on his machine and from talking the matter over, my mind has been refreshed and matters that did not transpire have been called to mind; that I had entirely forgotten. I very much regret to make this affidavit. I feel it my duty now to make the affidavit; that I am convinced that I would not have been able to build this machine if I had not obtained the original idea from Mr. Bruckman.

The Commissioner, in denying Bruckman's motion to reopen the proofs and introduce the testimony of Miller, gave, as a reason, that in the affidavits—

Miller fails to say that Bruckman disclosed to him the real invention in issue,

and also that the affidavits did not disclose newly-discovered evidence—

for not only was it open to Bruckman to take Miller's testimony at the time of taking his proofs, but Miller was bound to know when he testified, all that he now alleges he knows and proposes to testify.

These proceedings are of an equitable nature, and, so long as the case is pending in the Patent Office, it is within the supervision of the Commissioner, who is charged with the duty of seeing that full justice is done, proceeding with due regard for the requirements of the statutes and the rules of practice affecting procedure in the Patent Office. There was nothing, however, to prevent the Commissioner in the exercise of his supervisory power to order the case reopened for the taking of additional testimony.

While the denial of the motion to reopen the case constitutes reversible error, which would, standing alone, necessitate sending the case back for the taking of further testimony, we deem this course unnecessary, since on the evidence, regardless of the affidavits, Bruckman is entitled to priority.

The decision of the Commissioner of Patents is reversed, and the clerk is directed to certify these proceedings as by law required.

Reversed.

The decision of the Assistant Commissioner reads as follows:

CLAY, *Assistant Commissioner:*

Bruckman appeals from a decision of the Examiners in-Chief which, reversing the decision of the Examiner of Interferences, awarded priority to Miller on an issue in ten counts sufficiently illustrated by the following:

1. In a baking machine including a carriage for conveying batter to the oven and moving adjacent the latter, an oven comprising a core, a conforming mold for said core comprising separable parts, pivoted arms operating the separable parts, means for heating the oven, and means on the carriage for operating said pivoted arms, whereby said molds are opened and closed in time with the movement of the carriage.

3. In a machine of the class described, a plurality of sets of molding devices relatively stationarily located, a carriage adapted to be passed along from one set of molding devices to another, each of said molding devices including parison molds and cores therefor, and mold-section securing latches, a batter reservoir on the carriage, devices on the carriage for engaging said mold-section securing devices to unlock the same and open the molds, devices on the carriage for raising the cores in the molds to strip the molded product from the same, a device on the carriage for engaging the mold securing means to reclose the parison mold sections, instrumentalities on the carriage for transferring the batter from the reservoir to the molding devices.

6. In a machine of the class described, a plurality of sets of molding devices relatively stationarily located and each comprising a pair of female half molds and a core for the same, devices connecting said half molds together, a carriage designed to be passed by said molds, a batter reservoir on said carriage, means on said carriage for engaging said half-mold connecting means to open the half-mold sections, means on said carriage for raising the cores to strip the cones from the same, means on said carriage for engaging said half mold connecting means to reclose said half mold members, and mechanism on the carriage coöperating with the molding devices for supplying batter thereto, said molding devices including heat applying instrumentalities for baking purposes.

9. In a machine of the class described, a plurality of sets of molding devices arranged in a row, each set of molding devices comprising sectional molds and cores for the same, a carriage arranged to be passed along by the molds, batter supplying instrumentalities on said carriage, mold opening and closing mechanism on the carriage, and means for holding the carriage in position with respect to the different molds while effecting the operation of charging the molds with batter.

The main question seems to be one of originality; but a proper determination of this requires a clear delineation of the invention in issue. The Examiner held that Bruckman had disclosed it to Miller. The Examiners-in-Chief held this to be error. In reaching their conclusions these tribunals attributed to the claims very different scopes. Bruckman developed the rotary machine of his patent, No. 1,071,027, August 26, 1913. If the claims cover broadly the mere reversal of the moving parts (the molds and the batter-carriage) in the machine of this patent, then it is clear that either there was no invention or that Miller got the broad idea from Bruckman. If, on the other hand, the invention is more narrowly the specific means of operating—that is to say, the solution of the problem of reversing the relative motions of the heavy and light parts—then Bruckman entirely fails to show any disclosure to Miller.

The claims originated in part in each of the applications; but it is obvious from the histories of both applications that the invention is not broad enough to read upon a mere reversal of the parts in Bruckman's patented rotary machine. There was no invention in the mere idea of making the mold stationary and moving the carriage for the batter: but the invention was in the means of successfully accomplishing this desired end. Yet what Bruckman disclosed to Miller, even according to his own testimony, was just this. This was a statement of the problem, not its solution. Not only does Miller flatly deny Bruckman's statement that Bruckman disclosed the invention to him, but I think Bruckman himself corroborates Miller's position. Over and over again he says that he disclosed only the general idea of the stationary mold and the moving carriage as an alternative form of his own rotary machine, which had traveling molds. Bruckman says at page 25 that in 1909 he conceived two ways of making an automatic cone-baking machine:

One way was to place the molds on a bench or in a row and operating them with a carriage with devices for operating the molds, or by placing the molds on a rotatable wheel and have the operating devices stationary, which would operate the molds as they passed.

He went on and developed the rotary machine of the patent referred to and abandoned the reciprocating machine. In Miller's machine the mold or "oven" (Figures 6 and 7) is composed of the two halves *m* on pivoted arms *n* and a core *i*, which has a vertical reciprocation to strip off the cone when the female mold is open. The whole mold remains in place, while the carriage *p* passes under it, acting to open the mold by means of *a* cam *q*, lifting the slotted cam-plate *k*. Before this the core *i* is raised, as in Fig. 7, so that the baked cone may drop off. Thereupon, the carriage being now stopped and the female mold out of the way, the batter-dipper *s'* is raised to coat the core *i* with new batter. Both parts of the mold carry electric heating devices. This machine is in many ways different from Bruckman's patented machine, and Bruckman is in error in thinking that it is—

simply a reversal of the parts; that is, in the rotary machine the parts that are movable are stationary in the reciprocating type and the parts that are movable in the reciprocating type are stationary in the rotary. (p. 30.)

All Bruckman's testimony rests on this error. At page 32 he agrees with the Examiner's attempted testimony that the invention in issue is this mere reversal of parts. While he says at page 42 that he had the idea of lifting the batter-cup to apply batter to the cone, he says that he gave up that idea and that he never built any machine of that type at all, (p. 43 and p. 59.) He seems reluctant (p. 63) to state that the machine of his present application was patentable over the patented machine.

I think it reasonably clear that whatever specific idea Bruckman may have had at the time of his conference with Miller he deliberately abandoned it in favor of the rotary type of machine. (See X-Q. 16, p. 67.)

As to what he actually described to Miller, he says, (p. 70:)

I don't remember whether I had any drawings or not. I think, though, I made some sketches in order to explain to him how I had planned on building it. * * * They would only show the broad construction of it. I would not draw out any detail work on it; simply showing the difference between how the machine could be constructed in this form of a reciprocating type rather than the rotary.

What he explained to Miller was just what he explained to others, (p. 68.) When specially urged to state definitely just what he disclosed to Miller, he was unable to recollect anything more than the mere matter of reversibility, broadly considered. (R. D. Q. 2, p. 80.) Nowhere in his record is there any statement of any particular construction disclosed to Miller.

To construe the issues to mean what Bruckman disclosed to Miller is to construe them out of existence, for in that case there is no invention involved. On the other hand, the broadest of the claims in issue requires a batter-conveying carriage moving past an oven which comprises a core and a female mold in separable parts mounted on pivoted arms and devices on the carriage for operating said arms, together with heating means for the oven. In the machines of both parties this heating means for the

oven is a part of or fixed to the oven and has no relative motion, as is the case of the gas-jets in the rotary machine of the patent. Supposing one to have the patent before him and to be told that the parts might be reversed, so as to leave the molds stationary and move the battery-carriage relatively thereto, he would still have about as much of a problem to solve in order to arrive at the invention in issue as if he had had the disclosure of the patent alone.

Not only does Bruckman's testimony entirely fail to show a disclosure to Miller of the particular construction which constitutes the invention in issue, but I think what Bruckman and his witnesses do say substantially corroborates Miller's testimony that Bruckman did not disclose the invention to him. Bruckman's brother, L. A. Bruckman, although attempting to state on hearsay that Miller got his ideas from Bruckman, is yet unable himself to relate any conversation in which Miller could have gotten anything more than the bare suggestion—

that the movable parts on the rotary machine would be stationary and placed on a bench on a straight line and some kind of a device to travel along to open and close it and operate it, (p. 111.)

Witness Fosdick not only makes it clear that Bruckman abandoned the idea of the reciprocating machine, but he says that from the information he got from Bruckman he would still "have had to work out the dimensions and all the details," (p. 120.) He nowhere states anything definite as being disclosed even to him, and it is obvious that he does not because he cannot.

After hearing was had on this appeal Bruckman filed a motion to reopen the proofs and introduce testimony of Miller to the effect that he, Miller, received a disclosure from Bruckman. The motion is supported by affidavits of Miller attempting a disclaimer of inventorship; but even in this attempted disclaimer Miller fails to say that Bruckman disclosed to him the real invention in issue. After saying—

I lost track of the fact that I got the idea of my machine from Mr. Bruckman,

and although he has, since giving his testimony, discussed with Bruckman what occurred at the time of the alleged disclosure of Bruckman to Miller and although he has had his mind refreshed and says he—

felt convinced that he would not have been able to build this machine if he had not obtained the original idea from Bruckman,

yet when he comes to state what idea he did get from Bruckman he does not state any idea that constitutes the invention in issue. With the rotary machine before them both, he says, Bruckman—

stepped over to the bench and he demonstrated how he could take these ovens and set them spaced the proper distance apart in a longitudinal way, or in other words, side by side on this bench and then have a carriage or device which I can operate by hand or operate the molds that would travel forward and backward and operate the different cams much better than as set up on this frame or round wheel. (Affidavit dated December 25, 1918, p. 2.)

This is all of the description, and it falls short of covering the invention in issue. There is not in the entire record any description of any means for operating the reciprocating machine, as in the applications of the parties hereto nor as contemplated by the issues.

It is clear enough that Miller would be estopped to deny that he is the inventor so far as such denial is detrimental to the interests of his assignee and as against that assignee, (Rob. on Pats., Vol. III, p. 250;) but I know of no law by which the estoppel could bind Bruckman unless there is some privity between Miller and Bruckman. (A. and E. Encycl., Vol. II, p. 439.) Bruckman was at the proper time entitled to use any witness he could find to prove his disclosure to Miller and could have used Miller himself. Thus if on cross-examination Miller had admitted that Bruckman disclosed to him that would certainly have been admissible evidence for Bruckman, notwithstanding it operated in derogation of the rights of Miller's assignee, the real party in interest against Bruckman. In other words, the estoppel against Miller does not go to the extent of making his testimony inadmissible to show that he was not the inventor when that testimony is taken for the benefit of Bruckman, who was not a party to the transaction which worked the estoppel. (See *De Laval Co.* v. *Vermont F. M. Co.*, 135 Fed. Rep., 772.)

But Bruckman's motion to reopen is refused on other grounds. There is here no newly-discovered evidence in any such sense as would warrant a reopening, for not only was it open to Bruckman to take Miller's testimony at the time of taking his proofs, but Miller was bound to know, when he testified, all that he now alleges he knows and proposes to testify. The sources of his knowledge were the same then as now. A mere change of mind or better recollection upon further thought is no ground for reopening. Besides which, his change of mind is open to suspicion under the circumstances. No new facts have been found. His interests have changed somewhat, since he is now an employee of Bruckman's company. Moreover, in any case his testimony would not be any stronger proof than his present attempted admission against interest, and his affidavit is not only not convincing, but even if believed it apparently shows that if he did testify he would only corroborate his previous testimony, at least so far as it is concerned with the particulars of the invention in issue. He does not state any good reason why he was mistaken in the first place or why his testimony on this point now would better accord with the rest of his testimony.

The motion to reopen the proofs being denied, I am satisfied that Miller was the first inventor of the issue for the reasons more fully given by the Examiners-in-Chief. I entirely agree with them, and their decision is affirmed.

Court of Appeals of the District of Columbia.

THE PREST-O-LITE COMPANY, INC., *v.* PLAY-O-LITE COMPANY, INC.

Decided June 2, 1920.

TRADE-MARKS — "PREST-O-LITE" — RIGHT TO PREVENT REGISTRATION OF "PLAY-O-LITE" IN FIELD OCCUPIED BY SIMILAR MARKS.

Where opposer adopted the mark "Prest-O-Lite" in 1904 for use on gas-tanks and did not extend its use to storage batteries until 1915, it is not entitled to successfully maintain opposition to the registration of "Play-O-Lite," adopted by applicant in 1917 for electric lamps, where others had adopted and used the words "Linolite," "Tubolite," "Portalite," and "Pract-El-Lite" prior to opposer's extension of its mark to storage batteries and had registered the same.

Mr. E. W. Bradford for the appellant.

Mr. Wm. F. Hall for the appellee.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office in a trade-mark opposition proceeding.

In 1904 appellant adopted the mark "Prest-O-Lite" for use on gas-tanks, and in 1915 it applied the same mark to the manufacture of storage batteries. In 1917 appellee adopted the mark "Play-O-Lite" for use on electric lamps for illuminating the front of pianos. The record shows that "Linolite" was registered for use on incandescent electric lamps in 1907, the application showing use of the mark since 1902. "Tubolite" was registered in 1909 for the same goods, the date of use being 1906. "Portalite" for use on electric lamps was registered in 1912, while "Pract-El-Lite" for incandescent electric lights was registered in 1915, with July of 1914 as the date of use. So far as appears, all these marks are in use and were in use when appellant extended its business to cover or include storage batteries. We have just ruled, in *French Battery & Carbon Company* v. *The Prest-O-Lite Company*, present term, where the facts were the same, that the Prest-O-Lite Company was not in a position to prevent the registration of "Ray-O-Lite" for use on electric lamps. The same reasoning applies here. When "Linolite," "Tubolite," "Portalite" and "Pract-El-Lite" were registered for use on electric lamps and lights the field was open, for at that time appellant was using its mark on gas-tanks. Appellant's subsequent use of its mark in 1915 on storage batteries did not entitle it, of course, to strike down the prior registrations made in good faith or destroy the business of the various firms securing those registrations. (See *United Drug Co.* v. *Rectanus*, 248 U. S., 90, 101.) As the field already was occupied, it follows that appellant is not in a position to object to the registration by appellee of its mark for use on electric lights.

The decision is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

H. KUHN & SONS (INC.) *v.* LETTS.

Decided June 2, 1920.

1. TRADE-MARKS—USE NECESSARY TO ESTABLISH RIGHT TO REGISTRATION.

Use of a trade-mark in interstate commerce or in commerce with foreign nations or with Indian tribes is a prerequisite to its registration, and the use contemplated is use by the applicant himself or by some one for him and not an independent or incidental use by a third party. Hence where persons outside the State of California, where appellee was doing business, procured appellee's goods in California and had them sent outside that State appellee could take no benefit from such transaction, and the business being otherwise local appellee failed to show the requisite use.

2. SAME—EVIDENCE OF INTERSTATE USE—SUFFICIENCY—TAKING ADDITIONAL TESTIMONY.

Where in a trade-mark interference proceeding, an applicant is refused permission by the Commissioner to take further testimony to prove interstate commerce on the ground that the testimony in the case shows such use, and on appeal the court concluded that the testimony is insufficient for this purpose, although such use is alleged in the declaration, *Held* that the denial of the request to take further testimony was error, and the case reversed and remanded with directions to permit the introduction of the same.

Mr. Harlan Moore for the appellant.

Mr. C. J. O'Neill for the appellee.

ROBB, *J.:*

Appeal from a decision of the Commissioner of Patents in a trade-mark interference proceeding involving the mark "American Boy."

Appellant was granted registration of the mark in 1917, on an application filed in 1915, and its use of the mark commenced just prior to the filing of its application.

Appellee is the proprietor of a department store in Los Angeles, California, and the testimony clearly shows local use of "American Boy" as a trade-mark long prior to the earliest date claimed by appellant. The sole question is whether an interstate use has been shown. The evidence on this point tended to show that parties outside California had written to friends or relatives in Los Angeles and, through them, had purchased "American Boy" clothing, and that those purchases were shipped by such friends or relatives to their ultimate destination. Aside from vague and unsatisfactory testimony by a representative of appellee's firm, this was the evidence upon which appellee depended to show interstate use.

The Trade-Mark Act, (33 Stat., 724.) requires an applicant for registration to accompany his application—

by a written declaration verified by the applicant that such trademark is used in commerce among the several States, or with foreign nations, or with Indian tribes * * *.

Applicant complied with this provision in the present case by declaring under oath—

that said trademark is used by him in commerce among the several States of the United States.

Clearly the use contemplated by the statute is a use by the applicant himself, or by some one for him, and not an independent or incidental use by a third party, the reason being that before an applicant is entitled to registration he must show that his business extends beyond the boundaries of his own State or into the territory of an Indian tribe. Appellee's business, so far as the present record shows, was local. That persons outside the State procured appellee's goods in California and had them sent outside that State is beside the question, for appellee was in no way responsible for, and hence could not benefit by, such a transaction. The sale was local and not interstate. Appellee evidently appreciated the difficulty, for in the Patent Office he requested an opportunity to introduce further testimony "to prove interstate commerce" but the Commissioner, being of the view that appellee had "fairly proven the interstate use" of the mark, did not deem it necessary to reopen the case.

The decision must be reversed but, in the circumstances, the case will be remanded with directions to permit appellee to introduce further testimony on the question of interstate use. Reversed and remanded.

Notice of Cancelation.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 2, 1920.

Ampere Manufacturing Co., its assigns or legal representatives, take notice:

A cancelation proceeding having been instituted by this Office upon the application of Diamond Electric Specialties Corporation, 103 South Orange avenue, Newark, N. J., to effect the cancelation of the trade-mark registration of Ampere Manufacturing Co., Nos. 408–412 West Thirteenth street, New York, N. Y., No. 65,605, dated October 8, 1907, and the notice of such proceeding sent by registered mail to the said Ampere Manufacturing Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Ampere Manufacturing Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancelation will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

[Vol. 277. No. 4.]

Patents Nos. 1,351,015 to 1,351,726.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 277—No. 5. TUESDAY, AUGUST 31, 1920. Price—$5 per year.

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Issue of August 31, 1920.

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Labels	52—No.	22,041 to No.	22,092, inclusive.
Prints	16—No.	5,318 to No.	5,333, inclusive.
Reissues	7—No.	14,939 to No.	14,945, inclusive.
Total	958		

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 11, 1920.

Peter S. Maroosis, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of William S. Maroosis, corner of Washington avenue southeast and Oak street, Minneapolis, Minn., for registration of a trade-mark and trade-mark registered January 28, 1902, No. 37,688, to Peter S. Maroosis, 257 and 259 First avenue south, Minneapolis, Minn., and a notice of such declaration sent by registered mail to said Peter S. Maroosis at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Peter S. Maroosis, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 17, 1920.

Frederick Gardner, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Ward Baking Company, Southern Boulevard and East One Hundred and Forty-third street, New York, N. Y., for registration of a trade-mark and trade-mark registered January 8, 1907, No. 59,440, to Frederick Gardner, 151 East Van Buren street, Chicago, Ill., and a notice of such declaration sent by registered mail to said Frederick Gardner at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Frederick Gardner, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., August 17, 1920.

H. Chaloner & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Pendleton Creamery Company, Pendleton, Ind., for registration of a trade-mark and trade-mark registered June 18, 1901, No. 36,614, to H. Chaloner & Co., 36 Water street, New York, N. Y., and a notice of such declaration sent by registered mail to said H. Chaloner & Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said H. Chaloner & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 17, 1920.

Retailers' Cooperative Association, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Henry Thayer & Co., Inc., of 150 Broadway, Cambridge, Mass., for registration of a trade-mark and trade-mark registered November 12, 1912, No. 89,143, to Retailers' Cooperative Association, of 423 Market street, Camden, N. J., and a notice of such declaration sent by registered mail to said Retailers' Cooperative Association at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Retailers' Cooperative Association, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

Correction of Drawings.

RULE 72. • • • • •

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Substitute drawings will not be admitted in any case unless required by the Office.

APPLICATIONS UNDER EXAMINATION

Condition at Close of Business August 21, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Mar. 1	624
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Jan. 1	Feb. 27	926
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 17	May 1	286
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Nov. 17	May 25	1,584
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Apr. 8	May 11	483
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 23	June 15	540
312	7. Games and Toys; Optics; Photography; Velocipedes	Apr. 16	May 10	908
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	June 2	June 7	457
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Feb. 25	Mar. 24	632
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 24	July 6	959
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Apr. 5	Apr. 9	395
222	12. Machine Elements	Dec. 9	May 22	1,147
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling, Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 28	June 12	1,173
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	July 9	706
308	15. Bread, Pastry, and Confection Making; Coating; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 17	Apr. 20	1,280
111	16. Radiant Energy; Telegraphy; Telephony	Dec. 31	Feb. 20	896
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	June 14	June 21	246
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 23	Apr. 5	1,230
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 12	Feb. 16	647
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Sales; Undertaking.	May 13	May 7	675
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 27	June 18	547
249	22. Aeronautics; Firearms; Ordnance	June 10	June 18	264
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 13	May 28	737
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Mar. 3	May 15	601
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 28	July 5	234
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Dec. 26	Feb. 2	766
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	May 1	Mar. 18	554
225	28. Internal-Combustion Engines	Feb. 16	Apr. 23	778
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Feb. 17	June 9	614
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 31	July 6	1,147
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 24	Mar. 5	1,356
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Jan. 2	June 1	1,195
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 13	May 19	496
304	31. Electricity-Transmission to Vehicles; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	June 5	July 17	266
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	July 1	July 13	488
204	36. Automatic Weighers; Drafers; Geometrical Instruments; Measuring Instruments; Force Measuring	Mar. 25	Apr. 7	1,250
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 16	Mar. 2	1,277
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Mar. 24	Apr. 24	849
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 15	Sept. 20	1,312
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 5	Mar. 15	941
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Jan. 15	June 1	848
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Feb. 16	Mar. 23	1,167
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Dec. 15	Mar. 15	1,047
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Apr. 20	June 4	298
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Feb. 24	Apr. 2	1,044
332	46. Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Jan. 9	Apr. 19	643
264	47. Brakes; Clutches; Fluid Pressure Brake and Analogous Systems	Dec. 29	Nov. 19	931
	Oldest new case, Oct. 15; oldest amended, Feb. 2.			
	Total number of applications awaiting action			37,444
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Mar. 18	Aug. 2	2,628
	Designs	Mar. 17	Apr. 27	902
	Labels and Prints	June 8	Aug. 2	581

PATENTS

GRANTED AUGUST 31, 1920.

1,351,015. TIRE-CASING. ARTHUR V. ANDERSON and ALFRED M. MORGAN, Fort Worth, Tex., assignors to Ford Tire & Rubber Company, Fort Worth, Tex., a Trust Estate. Filed Jan. 2, 1920. Serial No. 348,800. 1 Claim. (Cl. 152—18.)



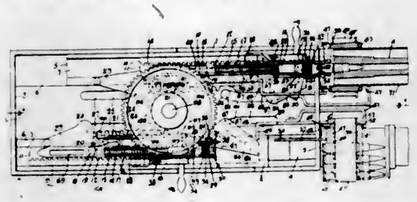
In a tire casing, a carcass formed of fabric and rubber, and puncture preventing means embedded in the tread portion of the carcass, such means comprising a plurality of separate transverse sections, each separate transverse section being formed of a transverse imperforate plate and sections of wire fabric arranged upon the outer and inner faces of the imperforate plate, said sections of wire fabric extending beyond the opposite sides and ends of the imperforate plate for substantial distances, means connecting the imperforate plate near its ends with the end portions of the wire fabric, the separate transverse sections being arranged in overlapping relation with their imperforate plates overlapping.

1,351,016. KNITTING DEVICE. FREDERIKA G. BELL, St. Paul, Minn. Filed July 30, 1917. Serial No. 183,406. 1 Claim. (Cl. 66—17.)



An attachment for knitting needles comprising a sleeve having a hook at one end, and adapted to be slipped over and frictionally retained on the end of the needle.

1,351,017. AUTOMATIC GUN. CHARLES C. BLACKMORE, Dayton, Ohio. Filed Nov. 7, 1918. Serial No. 261,446. 12 Claims. (Cl. 89—2.)



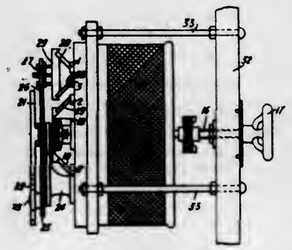
1. In an automatic gun, the combination, a frame, a plurality of longitudinally operable barrels each having a receiver slide secured thereto and operable in said frame, a breech bolt operable in each of the receiver slides, a firing pin operable in each breech bolt, a rack and gear interposed between the opposite receiver slides and breech bolts, respectively, said gears operating in unison and said racks being operable independently of each other, and loading mechanism whereby the firing and recoil of one barrel will actuate said mechanisms in sequence to load and fire another barrel.

1,351,018. BISCUIT-STACKING MACHINE. FRANK BLANDO, New York, N. Y. Filed Dec. 27, 1919. Serial No. 347,692. 17 Claims. (Cl. 107—45.)



1. In a biscuit stacking machine, the combination with means for carrying pans of biscuits through the machine, of means for removing said biscuits from the pans, and means for loosening said biscuits from the pans before removal.

1,351,019. ELECTRIC REGULATING-RHEOSTAT. LAWRENCE BOOTHMAN, Manchester, England, assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 4, 1915. Serial No. 12,214. 7 Claims. (Cl. 219—48.)

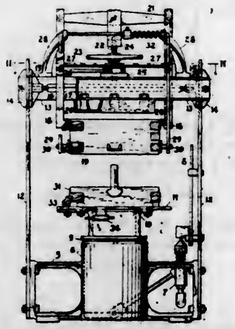


1. A rheostat for electric circuit control comprising a main series of rheostat elements, a subdividing rheostat associated therewith, contact members adapted to progressively engage the said main and subdividing rheostats, and gearing for operating the said contact members in timed relation to each other, said gearing comprising a gear wheel carrying the contact member belonging to the main rheostat, a second gear wheel meshing with the said contact-carrying gear wheel, a third gear wheel adapted to rotate in unison with the said second gear wheel, and a lever secured to move in unison with the contact member belonging to the subdividing rheostat and adapted to periodically engage the said third gear wheel and to partially rotate the said gear wheel at each such engagement.

1,351,020. MOLDING-MACHINE. WILLIAM F. BRADY, Newark, N. J., assignor to Crocker-Wheeler Company, Ampere, N. J., a Corporation of New Jersey. Filed June 11, 1919. Serial No. 303,390. 7 Claims. (Cl. 22—25.)

1. In a sand molding machine, the combination of a horizontal flask-supporting table, a crosshead, a rammer

attached to the crosshead, drawing hooks carried by the crosshead for engaging the cope of the flask when it is



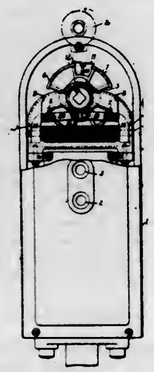
under the rammer, and means for effecting relative vertical movement of the crosshead and table, substantially as described.

1,351,021. ABRASIVE-DISK WHEEL. SAMUEL M. BULLOCK, Chicago, and HARRY S. LLOYD, Oak Park, Ill. Filed July 15, 1919. Serial No. 310,968. 1 Claim. (Cl. 51—209.)



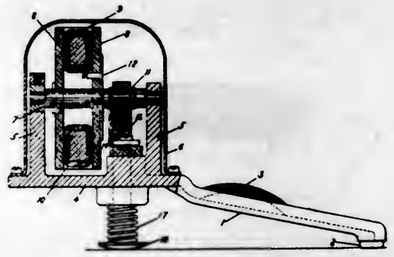
An abrasive disk for disk grinders comprising a fabric disk and a layer of abrasive particles bound together and to the fabric by magnesium chlorid and magnesite, the ratio of magnesium chlorid to magnesite being higher in the fabric than in the layer of abrasive material.

1,351,022. CONTROL APPARATUS. ANDREW H. CANDEE, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 8, 1915. Serial No. 65,687. 9 Claims. (Cl. 200—50.)



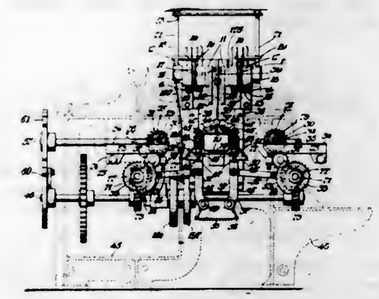
2. In a controller, a contact drum having a central position and an off position on each side of said central position, a switch, a controller handle provided with means for preventing the operation of said switch unless said drum is one of said off positions and for locking said controller in an off position.

1,351,023. CONTROLLER FOR SMALL MOTORS. JOSEPH L. CHANTEMERLE, Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 14, 1918. Serial No. 211,763. 6 Claims. (Cl. 219—48.)



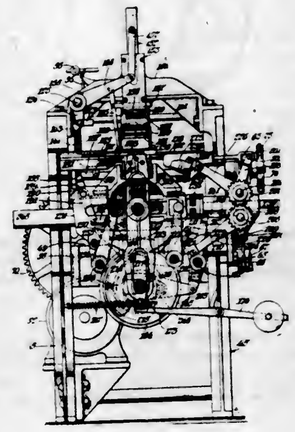
1. In an adjustable rheostat, the combination with a revolubly mounted resistor, and stationary contact fingers adapted to coact therewith, of a pedal member operatively connected to said resistor and adapted for movement in one plane only.

1,351,024. LABELING-MACHINE. SIMON COOPER, Brooklyn, N. Y., assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1918. Serial No. 255,955. 8 Claims. (Cl. 216—54.)



1. In a labeling machine, the combination with a package support, of a label receptacle in spaced relation thereto; a label pasting and transferring element including a member having a paste and label receiving surface normally positioned adjacent the package support; means, including a carrier, for moving said element between the said support and receptacle; a source of paste supply; a body movable in a plane between the said source of supply and the path of said member; a paste-applying roll resiliently supported on said body; means for actuating said body to position the paste-applying roll in the path of the receiving surface of said member during the travel of the latter toward the label receptacle; means for independently moving the said element to present the paste bearing surface thereof to a label in the receptacle, and for permitting said member, with the label attached thereto, to return to its normal position; and means on said body for stripping the label from said member and applying it to a package on said support.

1,351,025. PACKAGE-WRAPPING MACHINE. SIMON COOPER, Brooklyn, N. Y., assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1918. Serial No. 255,956. 30 Claims. (Cl. 93—2.)



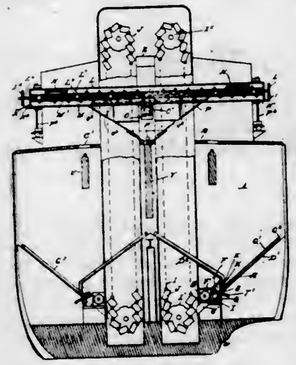
1. In a wrapping machine, the combination of means for supporting and feeding a row of boxes, including a bottom member for temporarily supporting successive groups of said boxes, and spring-pressed side strips spaced apart and arranged above said member so as to embrace and grasp the boxes, means for moving said member into and from its supporting position, a box and wrapper support below said member, means for vertically-reciprocating said support in respect to said member, means for supplying wrapper material to said suport and in position thereon to receive the boxes when they are released by said member, and pressure means for acting upon and depressing the released boxes.

17. In a wrapping machine, the combination with a wrapper-and-article support, and means for vertically-reciprocating the same, of a turret having a central space and a series of spaced apart open receptacles extending radially outward therefrom, and means for intermittently rotating said turret to position the receptacles successively within the path of the support, whereby said support is reciprocated through the successively positioned receptacles and in its downward movements enters the common space connecting the receptacles.

25. In a wrapping machine, the combination with means for supporting a partially wrapped package having end-projecting wrapper portions, of wrapper folding mechanism comprising opposed pairs of pivotally-mounted members, means for simultaneously swinging the pairs of members toward or from each other at the respective ends of the package, whereby the upper and lower projecting portions of the wrapper at each end thereof are simultaneously folded toward each other, and means operative to bear against and insure the proper positioning of the package preparatory to the folding action of the said members.

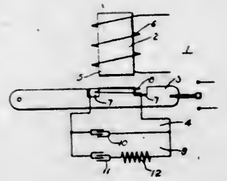
1,351,026. CARGO-STORAGE FOR BOATS AND UNLOADING MECHANISM THEREFOR. STANFORD T. CRAPO and JOSEPH R. JENKINS, Detroit, Mich., assignors to Huron Portland Cement Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 8, 1917. Serial No. 195,304. 6 Claims. (Cl. 214—15.)

1. In a boat, a hold for containing dry comminuted material, a discharge spout therefor, a series of pipes adjacent to the bottom of said hold having a plurality of



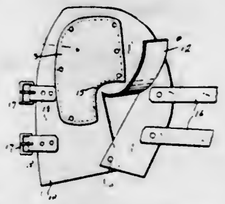
spaced holes for the exit of air, and a fabric covering for said pipes.

1,351,027. RELAY. DAVID C. DAVIS, Wilkinsburg, and CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1918. Serial No. 240,286. 11 Claims. (Cl. 175—338.)



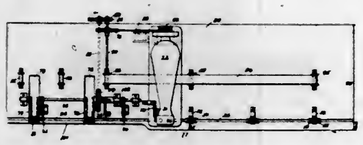
1. A relay comprising an electromagnetic actuating means, an armature therefor, means inductively related to the actuating means for controlling the operation of the armature and a resonant circuit connected to said means.

1,351,028. HANDSHIELD FOR RIVETERS. JAMES P. DONOVAN, Quincy, Mass. Filed Feb. 17, 1919. Serial No. 277,533. 2 Claims. (Cl. 2—104.)



1. A hand shield of the character described comprising a blank of flexible material adapted to be longitudinally folded to extend over the back and palm of the hand and embrace the first and second fingers, straps attached to the margins of the blank whereby it may be held upon the hand, the blank being longitudinally slitted at two points to provide a tongue, the margins defining said tongue being brought together at the base of the blank and overlapped to thereby provide a thumb opening, and a hollow thumb piece attached to the blank and extending therefrom, said tongue extending upward through said thumb piece.

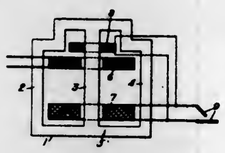
1,351,029. APPARATUS FOR SEWING-MACHINE CONSTRUCTIONS. ALEXANDER EIG, New York, N. Y. Filed Apr. 3, 1919. Serial No. 287,120. 16 Claims. (Cl. 112—2.)



1. In an apparatus of the kind described, the combination of a sewing-machine having a needle, a longitudinal guideway located at one side of the path of the needle, a longitudinal fabric carrier traveling in said guideway to draw material to be sewed across the path of said needle whereat the sewing operation is accomplished, and mechanism for automatically removing the fabric carrier from said guideway.

8. In an apparatus of the kind described, the combination with a longitudinal work-table having a guideway extending lengthwise thereof, a sewing-machine disposed transversely of the table and provided with a needle working at one side of the guideway and with a feeding plate oscillating therein, train coupled carriers slidable in the guideway and consisting each of top and bottom members between which material to be sewed may be held, said carriers having on their under surfaces means on which the oscillating plate may act to cause the travel of the carriers through the guideway, each carrier at it advances drawing its material across the path of the needle whereat the sewing is effected, means yieldingly bearing on the top members of the carriers to prevent the displacement of the material, mechanism for automatically severing the threads between the materials held by successive carriers, automatically operated mechanism for uncoupling the carriers and removing them individually from the guideway, and mechanism for automatically returning the individual carriers to a convenient place for the next operation.

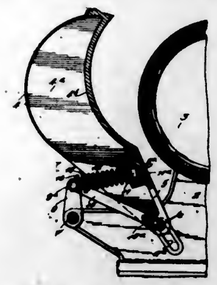
1,351,030. ARC-WELDING SYSTEM. HANS FAHNOE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 3, 1919. Serial No. 321,411. 7 Claims. (Cl. 219—15.)



1. In an arc welding system, a transformer comprising core member, a plurality of windings mounted thereon including primary and secondary windings and an auxiliary winding, the primary winding being adapted to be connected to a source of alternating current, the secondary winding being connected to a plurality of electrodes and the auxiliary winding being connected in parallel relation to the secondary.

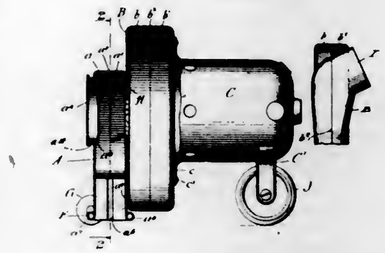
1,351,031. IRONING-MACHINE. ALVA J. FISHER, Evanston, Ill., assignor to Hurley Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 23, 1916. Serial No. 127,246. 15 Claims. (Cl. 68—9.)

1. In an ironing machine, the combination of a roll, a coacting shoe, mountings for said shoe permitting the shoe to turn into and out of contact with the roll in normal operation about a pivotal axis that is beyond the roll-contacting surface of the shoe and permitting the rearward



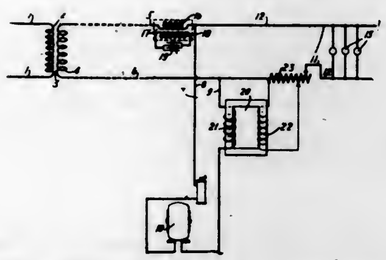
displacement of said shoe bodily from said normal-operation-position, and means for controlling the rocking of the shoe pivotally and for bodily displacing it as aforesaid.

1,351,032. VACUUM-CLEANER. ALVA J. FISHER, Evanston, Ill., assignor to Hurley Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 13, 1916. Serial No. 136,602. 3 Claims. (Cl. 15—60.)



1. A vacuum cleaner structure comprising a nozzle casing and a fan casing secured together, the former casing having a bottom nozzle opening whose front edge is rolled into a tube, a rod passing into such tube and supporting a roller on the end of the rod.

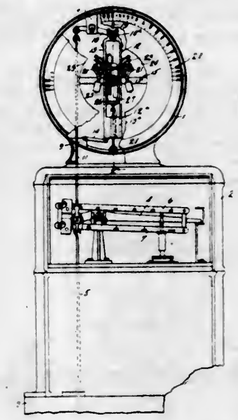
1,351,033. SYSTEM OF DISTRIBUTION. CHARLES LE GEYT FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 4, 1915. Serial No. 65,082. 7 Claims. (Cl. 171—119.)



1. The method of maintaining the voltage impressed upon one branch circuit of a composite load circuit constant and in phase with the voltage impressed on the load circuit which consists in impressing upon said branch circuit an electromotive force that is in phase with the current flowing in the mains of the composite load circuit and substantially in proportion to the current delivered to a second branch circuit, and impressing an electromotive force on the load circuit that is opposite in phase to the reactive voltage drop obtaining in the load circuit.

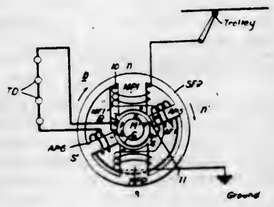
4. In a system of electrical distribution, the combination with a main circuit, a branch circuit requiring varying amounts of power connected thereto, and a second branch circuit requiring a constant electromotive force, of means inserted in the main circuit for compensating for the reactive drop therein, and means influenced by the varying currents flowing in said first branch circuit for impressing upon said second branch circuit an electromotive force to automatically compensate for the ohmic drop in the main circuit caused by the current of the first branch circuit.

1,351,034. WEIGHING-SCALE. CLARENCE H. HAPGOOD, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 23, 1916. Serial No. 127,283. 10 Claims. (Cl. 265—62.)



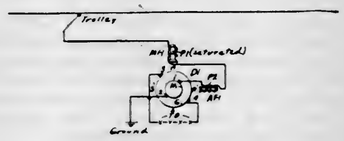
1. In a weighing scale and in combination with the indicating mechanism thereof, a vertically movable frame, oppositely-disposed pendulums carried by said frame and adapted to be rocked upon movement of the frame, means adapted to retain said frame in a true vertical position during its entire movement, and means carried by said pendulums for actuating the indicating mechanism.

1,351,035. DYNAMO-ELECTRIC MACHINE. RUDOLF E. HELLMUND, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 14, 1915. Serial No. 66,725. 5 Claims. (Cl. 171—123.)



4. In a dynamo-electric machine, the combination with a rotor having a high voltage and a low voltage winding and a commutator for each of these windings, of a plurality of spaced sets of brushes for said commutators, a stator frame having a plurality of polar projections and a plurality of sets of field windings to excite said projections and the rotor, means whereby the excitation of one of the sets of field windings is changed so as to increase the total voltage induced in the low-voltage winding without substantially changing the total field flux between the commutating coils of the high-voltage winding.

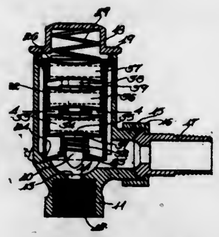
1,351,036. DYNAMO-ELECTRIC MACHINE. RUDOLF E. HELLMUND, Pittsburgh, and RALPH E. FERRIS, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 8, 1916. Serial No. 96,051. 2 Claims. (Cl. 171—123.)



1. In a dynamo-electric machine, the combination with a rotor having a plurality of commutators, of a plurality of spaced sets of brushes for said commutators, and a stator having pairs of main and of auxiliary polar projections of the same sign disposed intermediate certain corresponding brushes, one of said pairs of projections being normally saturated so as to emit a substantially constant flux.

2. In a dynamo-electric machine, the combination with a rotor having a motor and a generator commutator, of a stator having pairs of main and of auxiliary polar projections of the same sign disposed intermediate certain corresponding brushes, one of said pairs of projections being normally saturated so as to emit a substantially constant flux, the forward or toe portions of the brushes for the motor commutator being disposed adjacent to said saturated polar projections.

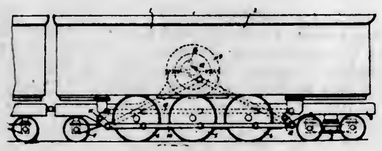
1,351,037. STEAM-TRAP FOR RADIATORS. GEORGE D. HOFFMAN, Pasadena, Calif., assignor to Hoffman Specialty Company, Chicago, Ill., a Corporation of Illinois. Filed June 28, 1915. Serial No. 36,859. 6 Claims. (Cl. 236—58.)



1. A steam trap comprising a casing provided with a valve seat at one end, and an abutment contiguous thereto, a cap removably engaging the other end of the casing, a cage removably supported within said casing independently of the valve seat and of the cap, a thermostatic motor inclosed within said cage, a valve coöperating with said seat, said valve being movable independently of the motor and guided by the cage, a spring acting to move the valve away from its seat, said cage, motor, valve, and spring constituting a single unitary

structure, said motor acting to move the valve to its seat, and a spring interposed between the cap and the cage to hold the latter yieldably in operative position.

1,351,038. LOCOMOTIVE. GEORGE H. F. HOLY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 2, 1917. Serial No. 151,946. 11 Claims. (Cl. 105—120.)



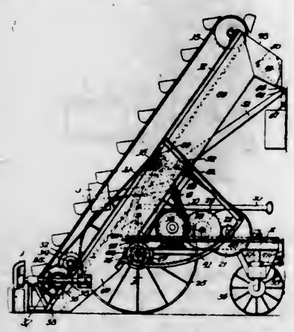
1. In an electric locomotive, the combination with a plurality of driving wheels and electric motors disposed above the driving wheels, of means for transmitting the driving effort of the motors to the driving wheels, said means comprising inclined motor rods disposed in a central vertical plane of the locomotive.

1,351,039. ELECTRIC LOCOMOTIVE. GEORGE H. F. HOLY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1918. Serial No. 227,430. 10 Claims. (Cl. 105—175.)



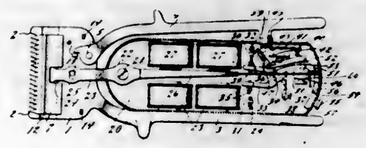
1. A vehicle comprising a plurality of single frame rigid wheel base trucks, a portion of said trucks being equipped with two or more center pins for maintaining pivotal connection with vehicle bodies mounted on said trucks, and having articulation links for connecting adjacent trucks whereby the draft strains are transmitted through said trucks.

1,351,040. WAGON-LOADING APPARATUS. WILLIAM T. JAMES, Chicago, Ill. Filed July 26, 1915, Serial No. 41,829. Renewed Dec. 11, 1918. Serial No 266,320½. 3 Claims. (Cl. 37—29.)



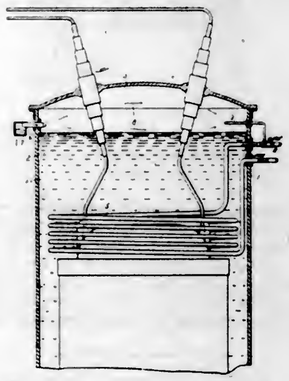
1. A wagon loading apparatus comprising, in combination, a conveyer, buckets on said conveyer, a pair of members arranged immediately in front of and to the sides of said conveyer adapted to move transversely with respect to the conveyer and move the material rearwardly with respect to the conveyer and lift it directly into the buckets of the conveyer.

1,351,041. CONVERTIBLE HAIR-CLIPPER. JOHN N. JOHNSON, Albuquerque, N. Mex. Filed Dec. 16, 1919. Serial No. 345,199. 16 Claims. (Cl. 30—1.)



1. A clipper comprising relatively movable cutter plates, power operated means for producing relative movement of the plates, manually operated means for also producing relative movement of the plates, and means for selectively rendering the manually operated means, effective or ineffective in producing relative movement of the plates.

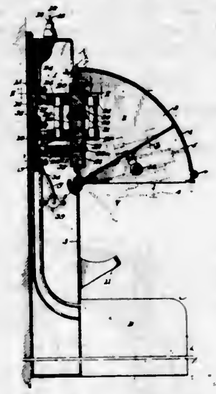
1,351,042. SYSTEM OF VENTILATION FOR TRANSFORMERS. CARL G. JONES, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 3, 1917. Serial No. 184,237. 5 Claims. (Cl. 175—361.)



1. The combination with a closed container partially filled with a gas-evolving liquid, of a coil for circulating cooling fluid within said container, means for utilizing said cooling fluid to eject the air-and-gas mixture that forms above said liquid and for introducing air into the space above said liquid.

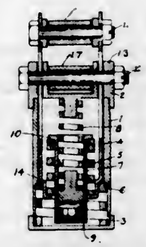
1,351,043. ELECTRIC SWITCH AND FUSE BOX. LAWRENCE F. KAIES, Baltimore, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 9, 1917. Serial No. 167,398. 10 Claims. (Cl. 200—114.)

8. The combination with a casing having an opening and a door for the opening, of customers' fuses within the casing accessible only when the door is open, load-limit fuses within the casing, a switch within the casing, and means in the casing for rendering the load-limit fuses



and the switch inaccessible through said opening in all positions of the door.

1,351,044. COMPOUND SHOCK-ABSORBING SPRING. ALBERT S. KUX, Chicago, Ill. Filed Oct. 7, 1915. Serial No. 54,687. 18 Claims. (Cl. 267—29.)



1. In a device of the class described, the combination with hanger members, of two compression springs arranged in series between said hanger members, one spring coiled within the other and spaced therefrom, means for connection between said two springs comprising a tube having an outward extending flange on its upper end and a screw nut on its interior at its lower end, and a third coiled compression spring always under tension arranged to counteract or take up the recoil of said first named springs.

1,351,045. SPOON AND FORK COMBINED. ALBERT LARSON, Lucan, Minn. Filed Dec. 30, 1919. Serial No. 348,431. 5 Claims. (Cl. 30—22.)



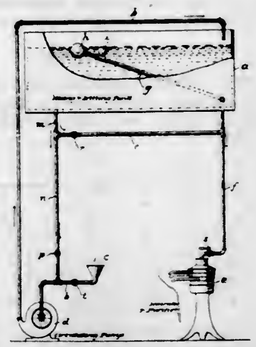
5. A basting spoon or other spoon having its bowl divided longitudinally into a rigid middle member and two side members, the latter arranged to spread with their front ends away from the middle member, and means for spreading and holding spread the side members when so desired.

1,351,046. SPOON AND FORK COMBINED. ALBERT LARSON, Minneapolis, Minn. Filed Apr. 16, 1920. Serial No. 374,486. 3 Claims. (Cl. 30—22.)



1. A combined spoon and fork comprising a handle and extending forward from the handle a central middle tine and a short distance therefrom provided with lateral lugs, two side tines having rigid shanks pivoted to the lugs and normally diverging rearward of the pivots, an operating rod guided to slide upon the handle and having at its front end a crosshead with apertures for said shanks, and means for holding the slide in any desired position.

1,351,047. PROCESS FOR CLEANING GASOLENE. MEREDITH LEITCH, Poughkeepsie, N. Y., assignor to the De Laval Separator Company, a Corporation of New Jersey. Filed Sept. 23, 1918. Serial No. 255,348. 12 Claims. (Cl. 196—26.)



2. The process of purifying used dirty and watery gasolene which comprises adding thereto a saponifying agent, and destroying the resultant emulsion of soap, water and gasolene by applying mechanical force to divide its constituents into a layer consisting of the entire content of gasolene in a pure condition and other layers containing soap, water and dirt unmixed and unemulsified with gasolene, and separately withdrawing the gasolene for re-use.

1,351,048. DIE. BURNS D. LOCKWOOD, Bellevue, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 15, 1919. Serial No. 290,289. 21 Claims. (Cl. 113—49.)

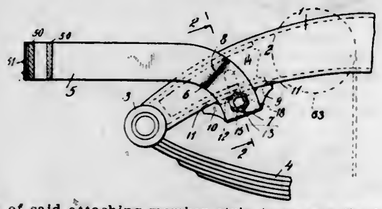


1. A die for shaping metal plates having a hardened pressing face portion comprising granular base materials and a medium for binding said materials together, said face portion being heat resisting.

1,351,049. RETAINER-ATTACHER FOR VEHICLE-BUFFERS. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Nov. 1, 1919. Serial No. 335,052. 23 Claims. (Cl. 293—55.)

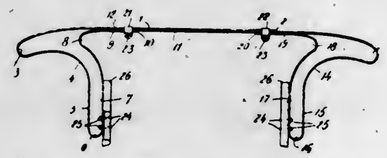
11. In attaching devices adapted for use in attaching an automobile buffer or the like to an automobile frame

members having projecting flanges, an attaching member of steel strip having a downwardly bent portion to form a substantially flat bearing member to coöperate with the web of a frame member, an inturned bent portion on said attaching member formed with a bolt socket, and having its inturned upwardly extending end bifurcated to form alining supporting members on either side of said bolt sockets and separated to a greater extent than the



width of said attaching member strip to engage the lower flange of said frame member, and a coöperating hook bolt having a shank extending through said bolt socket and having a hook end extending around the lower flange of said frame member and engaging the inner surface thereof to insure reliable connection between these parts with a minimum of lateral and longitudinal extent of the attaching device adjacent the lower part of the frame member.

1,351,050. LOOPED-ATTACHER AUTOMOBILE-BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Jan. 14, 1920. Serial No. 351,283. 12 Claims. (Cl. 293—55.)



4. The automobile buffer comprising two generally similar resilient strip elements each having an impact receiving member, and a connected outer end loop and attaching member having an attacher loop and a securing portion adapted to be secured to the automobile frame member, said securing portion having a connector portion adapted to be secured to the coöperating impact receiving member.

1,351,051. METHOD OF MAKING SOUND BRASS CASTINGS. LEON MCCULLOCH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,537. 5 Claims. (Cl. 22—215.)

1. The method of making sound castings of copper or copper alloys which comprises oxidizing and consequently removing absorbed hydrogen from the molten metal prior to casting.

1,351,052. VEHICLE-WHEEL. COLIN MACBETH, Birmingham, England, assignor to The Dunlop Rubber Company, Limited, Westminster, London, England. Filed Nov. 14, 1919. Serial No. 338,003. 8 Claims. (Cl. 301—64.)



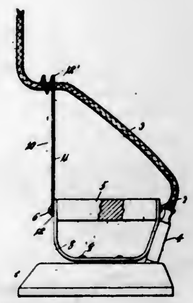
1. A metal vehicle wheel comprising a hub, a rim, and oppositely dished spoke members extending between the hub and rim and adapted to be expanded radially under the action of pressure applied in the direction of the length of the wheel axis, the contacting surfaces of the spoke members and rim being of such form that there may be a slight, relative, transverse rocking between said parts as the spoke members are expanded.

1,351,053. SECTIONAL SCAFFOLD. JOHN J. MACKLEM, Goshen, Ind. Filed Oct. 15, 1919. Serial No. 330,822. 5 Claims. (Cl. 304—3.)



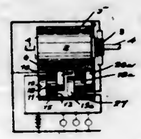
1. In a scaffold including a plurality of superposed ladder sections spaced apart in pairs, side sway braces detachably connecting members of said pairs and including a slotted brace beam, slotted, diagonally disposed arms pivotally connected at one end to said beam, and short U-irons slidably mounted in the slots of the brace beam, and long U-irons slidably mounted in the slots of the pivoted diagonally disposed arms.

1,351,054. ELECTRIC SADIRON. EDWIN MILLER, Hartford, Conn. Filed Jan. 19, 1920. Serial No. 352,467. 1 Claim. (Cl. 219—25.)



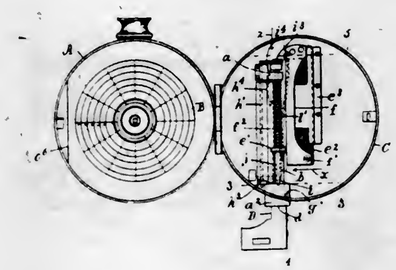
An article of manufacture for use in connection with an electric sad iron and to function as a wire support, comprising an elongated shank having an eye at one end, to receive a screw by which it may be attached to the iron, and also having at the other end a plurality of coils into which the supply wire of the iron may be threaded, the coils being adapted to surround and support said supply wire.

1,351,055. ELECTRIC REGULATION. GEORGE G. MILNE, Rye, and JOHN L. CREVELING, White Plains, N. Y., assignors to Gould Coupler Company, a Corporation of New York. Filed Feb. 17, 1917. Serial No. 149,222. 11 Claims. (Cl. 171—313.)



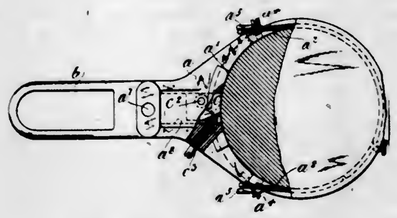
1. In a dynamo having an armature and field exciting means, a plurality of means for regulating the dynamo by independently diverting the field away from said armature and responsive independently to voltage and current, respectively.

1,351,056. WATCHMAN'S TIME-DETECTOR. PAUL MOOSMANN, Brooklyn, N. Y. Filed June 1, 1916. Serial No. 101,015. 14 Claims. (Cl. 234—39.)



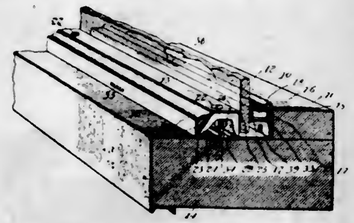
6. In a watchman's time detector, the combination, with a lock having a sleeve held stationary therein, of a spindle movable concentric with the said sleeve, a stop connected with the spindle to obstruct the rotation of the key, and a key having means within its barrel adapted to engage the spindle and remove the stop from the path of the key-ward.

1,351,057. PISTON-GROOVE TOOL. LOUIS DE F. MUNGER, Springfield, Mass. Filed Nov. 14, 1917. Serial No. 201,901. 11 Claims. (Cl. 82—4.)



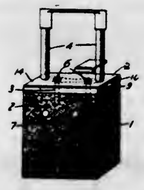
1. Apparatus for cutting grooves in the periphery of circular stock comprising a support adapted to encircle the stock, a grooving tool projecting inwardly from the support, and a plurality of guides projecting inwardly from the support in spaced relationship therearound, the guides being adapted to extend into an annular slot in the stock and having lateral bearing surfaces adapted to position the apparatus axially of the stock.

1,351,058. GLASS-SECURING DEVICE. DANIEL J. MURNANE, Chicago Heights, Ill., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill., a Corporation of Illinois. Filed July 30, 1917. Serial No. 183,487. 8 Claims. (Cl. 189—78.)



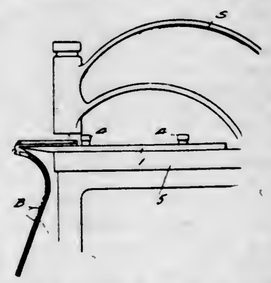
8. In a window glass setting, a support for the glass, a sheet metal sill covering, securing means for said support passing through openings in said sill covering and into the sill, said openings being in the form of slots wider than the dimensions of the said securing means to afford limited adjustment in position of said support and securing means both longitudinally and laterally on said sill covering and having their edge walls punched up to prevent the entrance of drainage water.

1,351,059. SHUNT ATTACHMENT FOR BRUSHES. FRANK D. NEWBURY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 6, 1917. Serial No. 178,929. 5 Claims. (Cl. 171—326.)



2. The combination with a current-collecting brush and a lead therefor, of means for attaching said lead to said brush comprising a contact plate mounted in engagement with said brush and provided with members enveloping the ends of said leads and an additional plate mounted on top of said enveloping members.

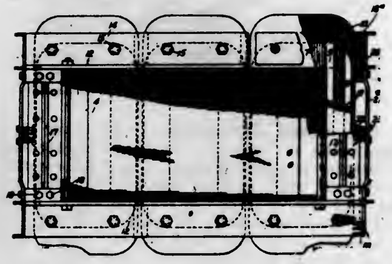
1,351,060. BOOKBINDING-MACHINE ATTACHMENT. JOHN P. NORMANN, Crookston, Minn. Filed Apr. 2, 1917. Serial No. 159,192. 1 Claim. (Cl. 1—4.)



The combination with a machine of the class described including a supporting table having a stationary anvil thereon and an arm carrying a stapler, of a plate bearing upon said table and having a beveled edge extending be-

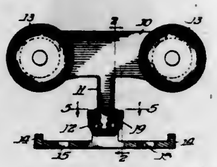
yond the outer edge of the same, said plate being provided with an opening positioned constantly beneath the stapler upon the anvil, and means for adjustably supporting the plate upon the table.

1,351,061. TRANSFORMER. JOHN F. PETERS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1917. Serial No. 163,006. 6 Claims. (Cl. 175—356.)



3. In a polyphase transformer, a three-legged core member, groups of rectangular coils, each of the core legs being embraced by a coil group but only the middle coil group having all its sides embraced by the core, and bracing means surrounding, and forming a box-like inclosure for, the coil edges and faces of those coil groups which are not embraced by the core.

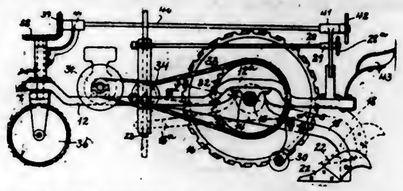
1,351,062. DOOR-HANGER. GEORGE RHINES, Danville, Ill., assignor to Allith Prouty Company, Danville, Ill., a Corporation of Illinois. Filed May 5, 1917. Serial No. 166,539. 2 Claims. (Cl. 16—90.)



1. A slidable door hanger, consisting of a wheeled carriage and a door member, one of said members having an upright shank provided with a cross-head extending in the direction of the path of travel of the carriage, said head having face portions sloping transversely in opposite directions from a median line extending longitudinally of the head, the other member having a continuous stirrup provided with a slot of a size to receive the cross-head therethrough, the cross-head lying transversely of the slot with its sloping portions in coöperative relation with the inner walls of the stirrup, there being a contact engagement between the head and the stirrup in the direction of the length of the head to prevent relative tilting of the members in the direction of said contact.

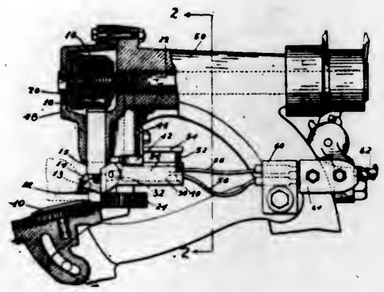
1,351,063. FARM IMPLEMENT. JAMES E. RICH, Springfield, Mass., assignor to Liberty Ignition Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 27, 1919. Serial No. 333,440. 4 Claims. (Cl. 97—50.)

1. A farm implement, comprising a frame having a transverse axle, a wheel journaled to rotate on said axle and supporting a portion of the frame, a draft beam mounted to oscillate on a center formed by said axle, and extending rearwardly and downwardly therefrom, a working member carried by said draft beam, a lever fixed to and constituting a forwardly projecting extension of the



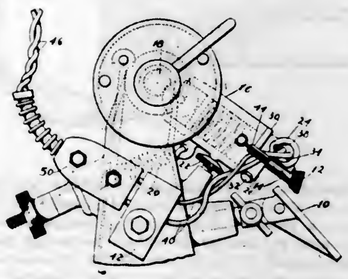
draft beam, and manually operable means carried by the frame for swinging said lever to raise and depress the draft beam and the working member carried thereby, said means being organized to counteract lifting pressure exerted on the working member.

1,351,064. WELT-INDENTING MACHINE. JOHN H. RIGBY, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 24, 1916. Serial No. 73,884. 12 Claims. (Cl. 12—78.)



4. A machine for operating upon the marginal portions of shoe soles having, in combination, a support for a shoe, a movable tool comprising a carrier and a working element carried thereby for acting upon the shoe stock, a contact block for engaging the carrier movably mounted adjacent said carrier, means for yieldingly holding said block in engagement with the carrier during its movement, and means to heat the block.

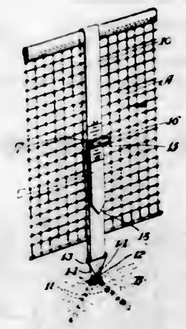
1,351,065. MACHINE FOR OPERATING UPON SHOE-SOLES. JOHN H. RIGBY, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 10, 1916. Serial No. 77,395. 8 Claims. (Cl. 12—78.).



2. A machine for operating upon the marginal portions of shoe soles having, in combination, a support for a sole,

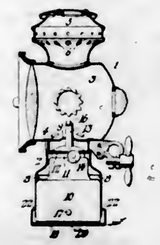
a tool comprising a carrier and a working element on said carrier for burnishing the edge of a sole, a bushing for guiding the carrier in its movements, a heating member fixed on said bushing and having a sliding contact with the carrier, means to heat said member, and mechanism operating upon the end of the carrier to rapidly reciprocate it through said bushing and across the face of the heating member in a direction transverse to the edge of the sole operated upon.

1,351,066. TENNIS-NET APPLIANCE. CHARLES A. ROBINSON, East Orange, N. J. Filed Nov. 9, 1918. Serial No. 261,758. 9 Claims. (Cl. 46—24.)



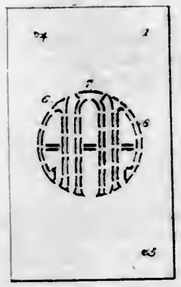
1. A tennis-net appliance comprising a flexible element adapted to be applied to a net, a chain of links adapted to be embedded in the ground to constitute a ground anchor, and means for connecting said element with the body of the chain at a point between the ends of the latter.

1,351,067. LANTERN. EDWIN M. ROSENBLUTH, Wallingford, Pa. Filed Sept. 18, 1918. Serial No. 254,540. 14 Claims. (Cl. 240—50.)



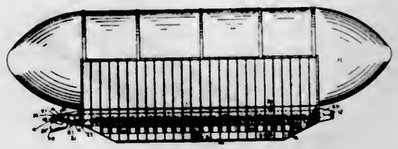
1. In a lantern, the combination with a casing, including a lamp chamber in the lower portion thereof; of a lamp in said chamber; diametrically opposite projections at the lower edge of said casing; a bottom cap for said casing, formed of a single piece of resilient sheet metal, having a unitary spring bottom with a raised central portion to uphold said lamp, and an inwardly turned annular spring flange, having a notch to pass one of said projections, but adapted to overhang and engage both said projections; an inwardly and downwardly extending stop projection on said cap at one side of said notch; and an inwardly and downwardly extending locking projection on said flange; whereby said lamp may be locked in coöperative relation with said casing, prevented from accidental displacement, and prevented from rattling, by said cap.

1,351,068. STENCIL-CARD AND METHOD OF STENCILING MONOGRAMS. FRANK M. SAYFORD, Brooklyn, N. Y. Filed Dec. 18, 1919. Serial No. 345,752. 4 Claims. (Cl. 101—127.)



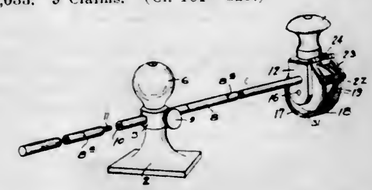
1. A stencil comprising a card having a plurality of forms of the same letter of the alphabet thereon arranged in the form of a monogram.

1,351,069. AERONAUTICAL APPARATUS. HENRY W. SCHMIDT, New York, N. Y. Filed Jan. 6, 1919. Serial No. 269,737. 2 Claims. (Cl. 244—10.)



1. In an apparatus of the class described, a lighter-than-air superstructure, an aerofoil, immediately beneath the same, a car beneath said aerofoil, means for drawing air at the front of said apparatus through said car and from between said superstructure and aerofoil through the latter and for discharging said air beneath said aerofoil.

1,351,070. MARKING DEVICE. WALTER T. SEITZ, Pittsburgh, Pa. Filed Feb. 20, 1920. Serial No. 360,033. 9 Claims. (Cl. 101—329.)

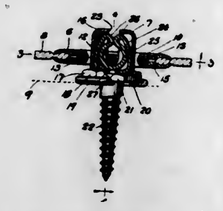


1. A marking device comprising a rotary marking wheel and means for revolubly moving the said wheel in a circular path.

1,351,071. RECORDING DEVICE. ALEXANDER SILVERMAN and ROSWELL H. JOHNSON, Pittsburgh, Pa. Filed June 7, 1918. Serial No. 238,797. 5 Claims. (Cl. 234—1.)

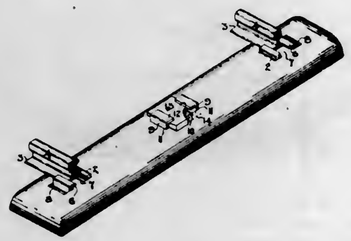
1. The method of producing records which consists in treating a suitable record sheet or strip chemically to render the same susceptible to change under the influence of heat and causing a heated member to travel in contact with said sheet, whereby a contrasting record line is produced on the surface of the sheet.

1,351,072. SPRING-CATCH DEVICE. JOSEPH SOSS, New York, N. Y. Filed Sept. 20, 1919. Serial No. 325,111. 7 Claims. (Cl. 24—214.)



1. A device of the class described comprising an eyelet provided with a cross bar centrally of the aperture of said eyelet, a stud member comprising a hollow portion and a spring in said hollow portion, said hollow portion being provided with a transverse aperture through which the cross bar of the eyelet is adapted to pass and operate in connection with the spring within said hollow portion.

1,351,073. RAIL-FASTENING DEVICE. DIRK ANDRIES TENGE, Krugersdorp, Transvaal, South Africa. Filed Mar. 25, 1919. Serial No. 285,058. 3 Claims. (Cl. 238—348.)



1. A hollow sleeper provided with means toward each end for engaging the inner sides of the bases of rails carried by the sleeper and formed with a central aperture, a tie bar for each rail having a hooked end engaging the outer side of the base of the rail and the underlying part of the sleeper; each of said tie bars having the other end turned upward and engaged in the aperture in the sleeper.

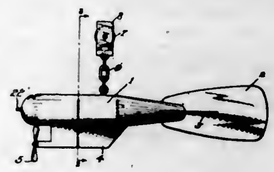
1,351,074. CONDENSER. PHILLIPS THOMAS, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 15, 1917. Serial No. 175,047. 8 Claims. (Cl. 250—41.)



1. An electric condenser unit including superimposed layers of conducting material having a dielectric comprising montan wax disposed between the adjacent layers.

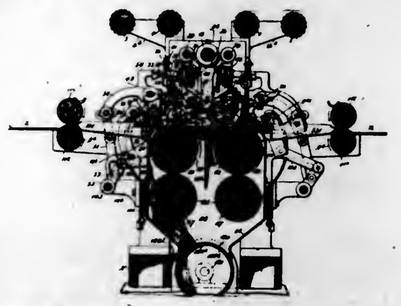
1,351,075. TOY. EDWARD W. TRAUTMAN, Long Beach, Miss. Filed Oct. 22, 1919. Serial No. 332,375. 3 Claims. (Cl. 46—40.)

1. A toy of the character specified comprising a vessel having guiding planes, a pulley connected with the vessel and adapted to run upon a cord connected at one end to a fixed object, a double swivel connection between the pulley



and the vessel, said vessel having means for exploding a torpedo or cap by contact of the toy with the fixed object.

1,351,076. COMBING-MACHINE. HARRY TUNSTALL, Fairhaven, Mass., assignor to Alsatian Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 7, 1918. Serial No. 257,089. 44 Claims. (Cl. 19—6.)



11. The machine above described comprising two pairs of lap-combing mechanisms and two pairs of nipper mechanisms, each located in operative relation to one of said combing mechanisms, means for mounting said nipper mechanisms whereby they may be oscillated independently, a main shaft, and means operated by said main shaft to cause each nipper mechanism in turn to present its lap to the combining mechanism.

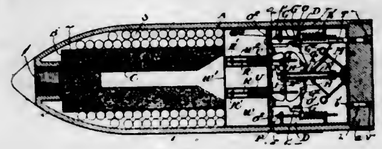
1,351,077. COMBING-MACHINE. HARRY TUNSTALL, Fairhaven, Mass., assignor to Alsatian Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 29, 1919. Serial No. 334,226. 3 Claims. (Cl. 19—6.)



2. In a combing machine, as a means for feeding the sliver, in combination, a cushion plate and a feed roll adapted to press the sliver against, and feed it over, said cushion plate, the feeding surface of said cushion plate being glazed in character, whereby the fibers will be discharged from said cushion plate in the same relation to each other as when received upon it.

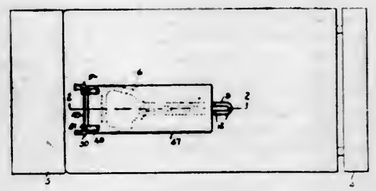
1,351,078. EXPLOSIVE SHELL. WILLIAM L. WALKER, New York, N. Y. Filed Jan. 10, 1917. Serial No. 141,691. 16 Claims. (Cl. 102—29.)

1. In a shell, a supply of material susceptible of generating explosive gas when exposed to a reagent, and a reservoir adapted to receive and contain a supply of said reagent, said reservoir being separated from the gas-



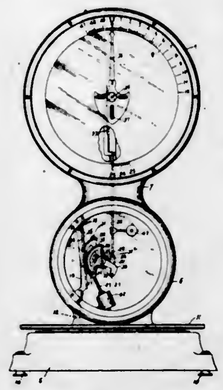
generative material by a solid wall, and means to puncture said wall, to admit the reagent to contact with said material.

1,351,079. SHIRT-FOLDING TABLE. CHARLES E. WAREAM, Cincinnati, and DANA H. BENJAMIN, Cleveland Heights, Ohio, assignors to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed July 24, 1918. Serial No. 246,506. 12 Claims. (Cl. 223—15.)



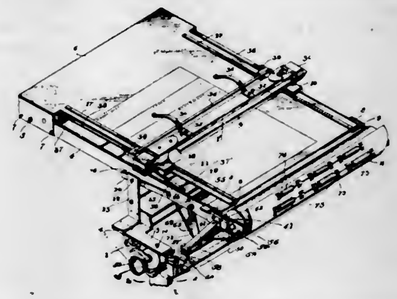
1. A shirt folding table, including a shirt receiving bed provided with a recess, and an expansible neck band former in said recess.

1,351,080. AUTOMATIC WEIGHING-SCALE. LEWIS C. WETZEL, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed July 5, 1916. Serial No. 107,719. 5 Claims. (Cl. 265—37.)



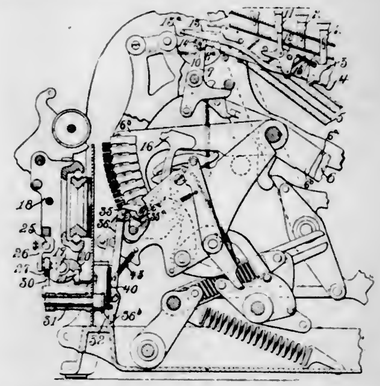
1. In a scale, a platform, a casing, indicating mechanism including a pinion rotatably mounted within the casing, guide tracks carried by the casing, a pendulum suspended within the casing and adapted to contact with said tracks, a connection between the pendulum and platform, a rack rod carrying a rack meshing with said pinion, and means for pivotally connecting said rack rod to said pendulum and for adjusting the effective length of said rack rod.

1,351,081. COLLATING DEVICE FOR TYPEWRITERS. JOHN ASHLAND WHERRY, New Orleans, La. Filed Oct. 15, 1918. Serial No. 258,146. 18 Claims. (Cl. 197—127.)



1. The combination with a platen which is bodily movable to and from operative position, of a collating board connected at one of its ends to the platen and movable with it to assume substantially vertical and horizontal positions, said collating board being pivotally supported intermediate its ends and means for actuating the platen when in operative position, said means being disengageable from the platen to permit the latter to be swung forwardly and upwardly to its inoperative position with the collating board face upward.

1,351,082. ADDING-MACHINE. ROY E. WING, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 6, 1916. Serial No. 135,455. 12 Claims. (Cl. 235—60.)



1. The combination with a plurality of sets of depressible keys, detents for holding down selected keys of the different sets, automatic mechanism for tripping the detents to release the keys, and means for causing the detent-engaging member: of said mechanism to idly pass a certain detent or detents leaving the same in action when tripping the balance of the detents.

8. The combination with a laterally shiftable paper carriage and stops for setting it at different columnar positions, and type-carriers and impression-making means; of devices controlled by the carriage and operating to disable part of the impression-making means.

1,351,083. WINDOW. FRANCIS A. WINSLOW, Chicago, Ill. Filed Apr. 15, 1912. Serial No. 690,722. Renewed May 12, 1916. Serial No. 97,182. 9 Claims. (Cl. 189—67.)

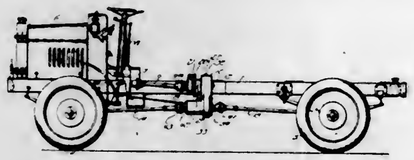
1. A window comprising a frame and a pair of sashes located normally in the same vertical plane with each

other and capable of being bodily raised and lowered in said frame, the upper sash having at its top and the lower sash having at its bottom means for engagement with the sides of the frame, in combination with a balance lever pivoted between its ends to the frame and at its ends



to the upper and lower sashes respectively remote from their ends so that when the upper sash is in the uppermost position and the lower sash is in its lowermost position the bottom of the upper sash engages the top of the lower sash and guiding means for said sashes.

1,351,084. DIFFERENTIAL-DRIVE MECHANISM. ANTHONY WINTHER, Kenosha, Wis., assignor to Marwin Truck Corporation, Kenosha, Wis., a Corporation of Delaware. Filed Oct. 22, 1919. Serial No. 332,494. 11 Claims. (Cl. 180—44.)



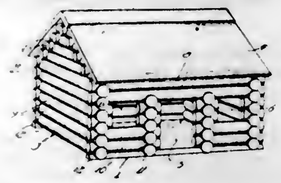
1. In a device of the character described, the combination of a primary driven shaft, a plurality of secondary driven shafts, one of said secondary shafts having positive driving connection with said primary driven shaft and normally in driving connection with the other of said secondary shafts, clutch members interposed between said secondary driven shafts and adapted to automatically disengage the last mentioned secondary shaft when the speed of rotation thereof exceeds the speed of rotation of the positively driven secondary shaft.

1,351,085. FIRE-FIGHTING APPARATUS. JAMES C. WITT, Cairo, Ill. Filed Mar. 11, 1918. Serial No. 221,744. 85 Claims. (Cl. 189—81.)



1. A fire fighting device, consisting of a collapsed shield section, a telescopic truck including a fixed truck member, and an extensible truck member carrying said shield section, and rockable standards pivoted on the extensible truck member and adapted to engage the fixed truck member upon telescoping the truck, to rock said standards.

1,351,086. TOY-CABIN CONSTRUCTION. JOHN LLOYD WRIGHT, Chicago, Ill. Filed Jan. 8, 1920. Serial No. 350,095. 3 Claims. (Cl. 46—35.)

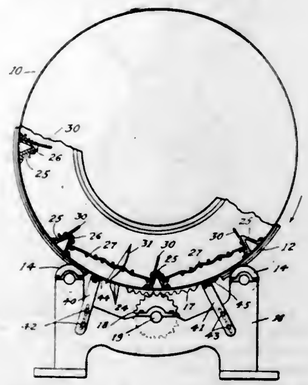


1. A toy structure in the representation of a log cabin or the like comprising a plurality of notched members resembling logs adapted to be assembled one above the other to form the walls of a structure, the members of each wall having interlocking engagement with each other at the corners of the structure, and means for forming end wall gables comprising a series of members of uniformly decreasing length placed one upon the other, a plurality of transverse connecting members interposed between and interlocking the ends of said last mentioned members, and a member positioned at the apex of said end gable extending between the same to form a ridgepole.

1,351,087. WATERPROOFED MATERIAL AND PROCESS OF MAKING SAME. ROSER B. SUTTER, Newark, N. J., assignor to Zenitherm Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 2, 1917. Serial No. 151,962. 16 Claims. (Cl. 106—25.)

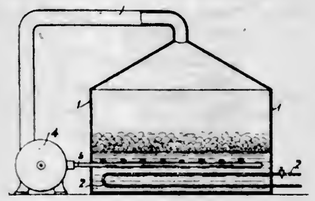
15. A structural material, comprising kieselguhr or infusorial earth and a refractory binder by which the particles of said material are held together.

1,351,088. PROCESS OF SNIPPING BEANS. EDWARD J. VAUDREUIL, Eau Claire, Wis. Original application filed Mar. 12, 1917, Serial No. 154,104. Divided and this application filed May 28, 1917, Serial No. 171,405. Renewed Jan. 15, 1920. Serial No. 351,557. 5 Claims. (Cl. 146—11.)



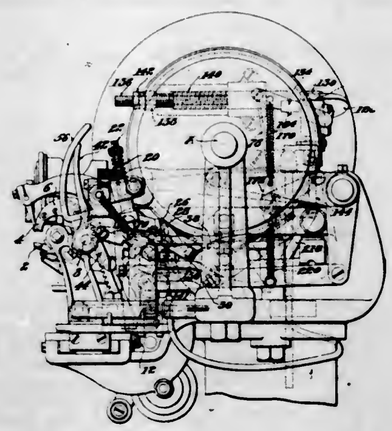
1. The process of snipping bean pods which consists in operating upon several previously assorted lots each containing rods of substantially the same thickness, by presenting each lot of pods to a separate supporting member, each of said members having therein a multiplicity of apertures of a size proportioned to the size of the pods presented thereto and of a different size for each member, acting upon the pods of each lot as they are presented to its member to cause the ends thereof to pass into the apertures of such member and to have the part to be snipped protruding through said apertures, and snipping said protruding parts.

1,351,089. METHOD OF PRODUCING FOAM IN LIQUIDS. ELIAS WIRTH-FREY, Aarau, Switzerland. Filed Apr. 8, 1919. Serial No. 288,644. 2 Claims. (Cl. 8—2.)



1. The herein described method of producing foam by heating a liquid, which consists in drawing off the steam rising from the liquid under treatment and in reconducting it again under pressure into the liquid without contact with atmosphere.

1,351,090. SHOE-SEWING MACHINE. FRED ASHWORTH, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 1, 1918. Serial No. 231,937. 11 Claims. (Cl. 112—61.)



1. A sole sewing machine having, in combination, stitch forming devices, a work support, a presser foot, a cam shaft, driving mechanism therefor, a stop disk driven by the cam shaft provided with a stop shoulder, a stop dog movable toward and from said disk and normally out of operation while the machine is running, a controlling dog movable with said stop dog and also movable independently at right angles to the movement of the stop dog, a surface on said disk coöperating with the controlling dog to hold the stop dog out of the path of said shoulder, a cam on said disk to move the controlling dog with relation to the stop dog out of the path of said surface, means for throwing the stop dog into operation and the driving mechanism out of operation to stop the machine and normally inoperative mechanism thrown into operation on stopping the machine for lifting the presser foot before said stop dog engages said stop shoulder.

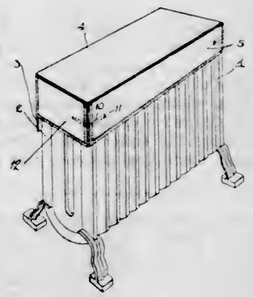
1,351,091. METHOD OF OBTAINING ZIRCONIUM OXID. LOUIS E. BARTON, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a Corporation of Maine. Filed Sept. 24, 1919. Serial No. 325,961. 5 Claims. (Cl. 23—13.)

1. In obtaining zirconium oxid, from a material containing an undesired substance, the steps which consist in melting said material with a carbonaceous reducing agent to production of zirconium cyanonitrid; and subjecting the resulting product to the action of sulfate of an alkali metal.

1,351,092. METHOD OF RECLAIMING PAPER-STOCK. CHARLES BASKERVILLE, New York, N. Y., and CLARENCE M. JOYCE, Leominster, Mass. Filed Oct. 7, 1919. Serial No. 328,982. 4 Claims. (Cl. 92—3.)

1. The method of reclaiming inked paper which consists in saturating the paper in a mixture composed of kerosene, borax, soap and water.

1,351,093. COVER FOR RADIATORS. RAY G. BROWN, Cleveland, Ohio, assignor to The Carey Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 13, 1917. Serial No. 196,499. 4 Claims. (Cl. 237—79.)

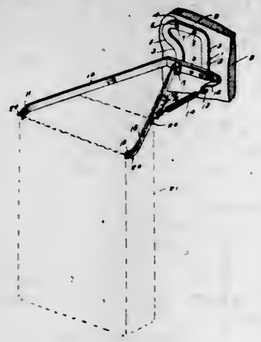


4. A radiator cover comprising a flat central section and a plurality of other flat sections attached to the sides and ends of the central section, the central section being adapted to extend across and rest upon the top of a radiator, and the other sections being adapted to depend from the central section along the sides and ends of the radiator parallel therewith.

1,351,094. SACK-HOLDER. ALBERT BUCKEL, Peru, Ill. Filed May 3, 1919. Serial No. 294,362. 1 Claim. (Cl. 83—26.)

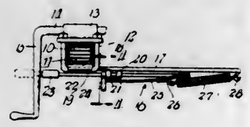
A bag holder comprising a vertical base member arranged to be secured to a support, a bag supporting member secured to the said base member, and having at one end an outwardly extending arm at an angle thereto, a second arm pivotally secured to said supporting member and extending outwardly therefrom, the opposite end of said supporting member being bent forward and curved to form a retaining hook, a contractile coil spring se-

cured to said hooked end and connected with the hinged arm, the free terminals of said arms being curved in-



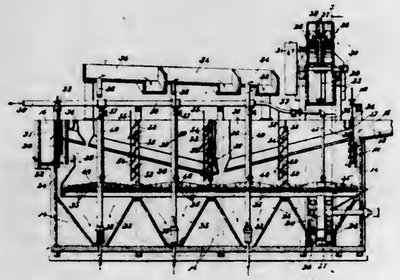
wardly and prongs mounted upon the arms some of them at the curved portions of the arms and others at points spaced therefrom.

1,351,095. LOCKING DEVICE FOR ENGINE-STARTING CRANKS. MAX J. COHN, Chicago, Ill. Filed Sept. 22, 1919. Serial No. 325,497. 6 Claims. (Cl. 70—130.)



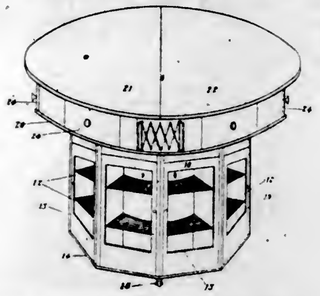
1. A device of the kind described comprising, a plate adapted to be attached to a fixed part of an automobile in the vicinity of the engine starting crank, a yoke longitudinally slidable on said plate, said yoke having laterally spaced side bars, which in one position of the yoke will engage on opposite sides of said starting crank, and a lock for connecting the ends of said side bars together when said crank is arranged between said side bars.

1,351,096. APPARATUS FOR SEPARATING OR CONCENTRATING ORES. DAVID COLE, El Paso, Tex., assignor to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Original application filed Aug. 3, 1915. Serial No. 43,444. Divided and this application filed Dec. 4, 1915. Serial No. 64,993. 2 Claims. (Cl. 83—82.)



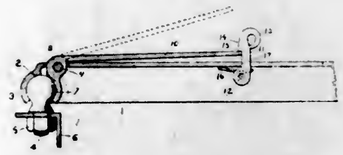
1. A hydraulic sizer comprising a tank having an inlet at one end, an outlet at the opposite end, and a plurality of sizing compartments at the bottom, said tank being constructed and arranged to permit a free flow of material therethrough in a substantially horizontal direction from said inlet to said outlet and above said compartments, and a series of vertically disposed spaced sets of shutters within said tank, said shutters having slats downwardly inclined in the direction of flow.

1,351,097. COMBINATION REFRIGERATOR AND TABLE. FREDERICK COOK, Chicago, Ill. Filed June 9, 1919. Serial No. 302,785. 1 Claim. (Cl. 45—71.)



A combined refrigerator and table, comprising a central ice chamber, a provision compartment surrounding said chamber, a top for said compartment projecting therefrom, said top being flush with the top of the ice chamber, the latter being open at the top and provided thereat with a removable closure, a table top located above the ice chamber and the aforesaid top of the provision compartment, said table top being composed of opposite sections which meet above the ice-chamber and cover the same, and said sections being slidable outwardly to uncover the ice-chamber, slides on the provision compartment top clear of the ice chamber, for supporting the table top sections, and drawers in the space between the table top sections and the provision compartment top, said drawers terminating at their inner ends short of the ice chamber.

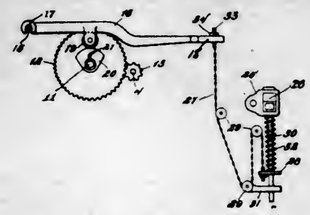
1,351,098. TRAILER-COUPLING. ALLEN W. CORWIN, Wellsville, N. Y. Filed Mar. 13, 1920. Serial No. 365,444. 13 Claims. (Cl. 213—67.)



12. A trailer coupling comprising the combination of a ball member mounted on an upwardly extending shank adapted to be secured to a vehicle, a tongue member having a ball-receiving socket opening through the bottom thereof, securing means on the tongue member comprising a ball-engaging element and a relatively long resilient operating arm therefor, a spring-pressed latch having a locking face thereon adapted to engage and lock the said arm in the securing position, the locking face of the latch and the complemental engaging face of the arm being so formed that the same will not become disengaged even though the latch-operating spring becomes inoperative.

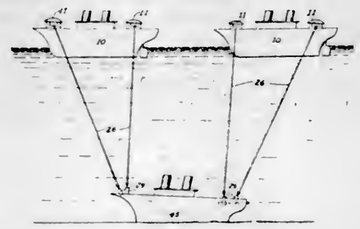
1,351,099. BOX-MOTION FOR LOOMS. WILLIAM JOHN CROWLE, Easton, Pa. Filed Mar. 4, 1920. Serial No. 363,145. 3 Claims. (Cl. 139—28.)

1. In a loom, shuttle-boxes, and shuttle-box raising and lowering mechanism including a lower cylinder gear shaft, of a vibrator gear shedding mechanism, a pattern chain cylinder shaft, gearing between said shafts, a vibratory



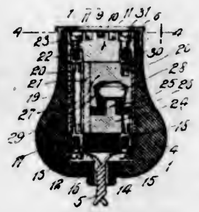
lever, a cam actuated by said gearing for periodically raising and lowering the lever, and connecting means between the lever and the shuttle-boxes.

1,351,100. SHIP-SALVAGE DEVICE. TERENTIE DAVIDENIA, Detroit, Mich. Filed Feb. 4, 1920. Serial No. 356,138. 3 Claims. (Cl. 114—51.)



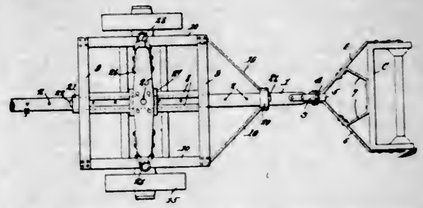
1. In an apparatus for raising sunken vessels, a grappling device adapted to be attached to a cable comprising a casing, a pair of arms pivoted in the lower ends of said casing, a member movable in the casing and engaging the said arms to retain them against outward movement, said member being adapted to have the cable attached thereto, and a spring pressing said member against the said arms.

1,351,101. ELECTRIC MERCURY-SWITCH. RAFAEL ESPINOSA DE LOS MONTEROS, New York, N. Y. Filed Aug. 11, 1919. Serial No. 316,530. 1 Claim. (Cl. 200—152.)



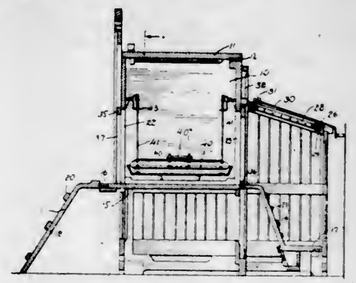
A handle having a chamber in which is placed a plug having an insulated top and two screws, each of which engages a socket, a conducting tube attached to one socket and a plug attached to the other, a projection on said plug and an insulation on the plug and surrounding said projection, a second plug mounted on the insulation with a cavity therein adapted to form a chamber with the first mentioned plug and the insulation, mercury in said chamber and means for holding all of said parts in proper relation so that when the switch is held in one position, an electric circuit is closed through the mercury and plugs, and when the switch is held in another position, a circuit is opened through the mercury and plugs.

1,351,102. TRAILER. ALEXANDER FRIGELSON, Beaumont, Tex. Filed Aug. 2, 1918. Serial No. 247,992. 9 Claims. (Cl. 280—33.1.)



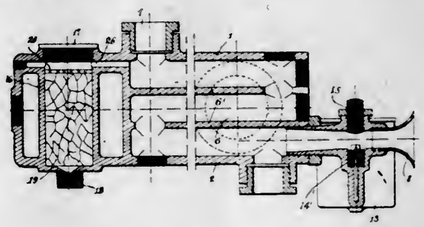
1. A structure of the character described including a wheel supported frame, a pole carried thereby, said pole and frame being capable of relative longitudinal adjustment, a member slidable longitudinally on said frame, and a bolster pivotally connected to the slidable member.

1,351,103. TRAP-NEST. CHARLES EDWARD GLANDER, Jersey City, N. J. Filed Apr. 9, 1919. Serial No. 288,685. 4 Claims. (Cl. 119—50.)



1. A poultry coop comprising a nest inclosure, a main coop extending below and to one side of said inclosure, said nest inclosure having a pair of sliding doors forming entrance and egress openings, a nest within said inclosure, a pair of rods to the lower ends of which said nest is hung, brackets secured to the frames of the respective doors, and a pair of arms pivoted between their ends to the said brackets and having the said rods suspended from one end thereof and their opposite ends adapted to wedge against the said doors to retain the latter in raised position.

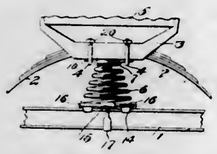
1,351,104. CARBURETER FOR INTERNAL-COMBUSTION ENGINES USING HEAVY OILS. FERNAND GRENIER, Nantes, France, assignor to La Société Robin, Grenier Vidy & G. Zwingelstein, Nantes, France. Filed Dec. 19, 1918. Serial No. 267,525. 2 Claims. (Cl. 48—61.)



1. A carbureter for heavy-oil internal combustion engines, comprising a casing having inlet and outlet ports

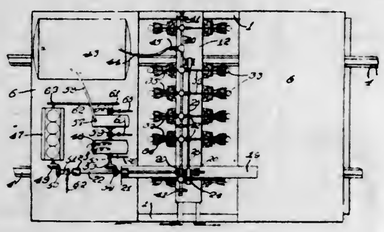
for the admission and escape of the hot exhaust gases of the engine; a tortuous vaporizing conduit in said casing around which said hot gases circulate, said conduit having an air inlet at its inlet end and having its outlet end in communication with the intake manifold of the engine, whereby a suction action is exerted in the conduit; a reservoir for containing heavy oil connected to said casing adjacent the inlet end of said conduit and having a device associated with it for spraying the oil into said conduit end to mix with the air drawn thereinto; means for regulating the admission of air through said conduit end; a chamber for containing coal located within said casing in advance of said conduit and exposed to the heating action of the hot gases circulating through said casing; and means for supplying water to the bottom of said chamber to be converted into steam by the heat thereof, said chamber being in communication at its top with the outlet end of said conduit, whereby the steam will be drawn into the conduit for admixture with the mixture of air and vaporized oil passing therethrough by the suction action exerted in said chamber.

1,351,105. AUXILIARY SPRING FOR AUTOMOBILES AND MOTOR-DRIVEN VEHICLES. ANGUS R. GROFF, Birmingham, Ala., assignor to A. R. G. Auxiliary Spring Company, Birmingham, Ala., a Corporation of Alabama. Filed Feb. 19, 1919. Serial No. 277,999. 5 Claims. (Cl. 267—28.)



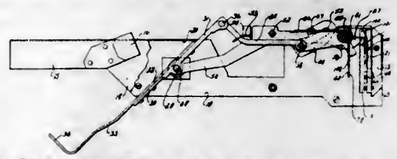
1. The combination with a vehicle body, a supporting spring therefor and spaced connecting elements, of an auxiliary coil spring having a thin attaching plate inserted between its upper coils and engaged and made fast to the body by said spaced connecting elements, and means to attach the base of said auxiliary spring to the vehicle running gear.

1,351,106. TAMPING-MACHINE. CORNELIUS G. HASTINGS, Glendale, Calif. Filed July 15, 1918, Serial No. 245,021. Renewed June 5, 1920. Serial No. 386,922. 15 Claims. (Cl. 104—12.)



1. In a device of the class described the combination of a portable frame, a reciprocal carriage mounted thereon, a vertically adjustable support on the carriage, and tamping means having a universally adjustable connection with the vertically movable support.

1,351,107. LABEL-AFFIXING APPARATUS. WINCENT KWASIS, Newark, N. J. Filed May 1, 1919. Serial No. 293,958. 4 Claims. (Cl. 216—23.)



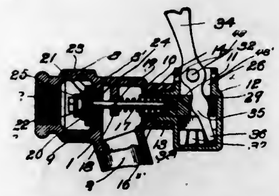
1. In a label affixing apparatus, the combination with a hollow sectional frame, and a handle extending therefrom adapted to carry a roll of paper rotatably mounted in said extension, means for guiding and feeding said paper, a knife having serrations at its cutting end mounted in the path of the paper, said knife being spring impelled downward, a detent engageable with said knife whereby it is normally held in a raised position, an actuating lever pivoted in said body, said lever being adapted for a manual operation, a detent releasing lever, a link connecting said actuating lever and said detent releasing lever, a slotted lever pivoted in the outer end of said body, and a lifting toe formed with said slotted lever whereby said knife is raised, and means carried by said knife for pressing the label firmly upon the article.

1,351,108. DENTAL IMPRESSION-TRAY. THOMAS F. LITTLEJOHN, Plano, Tex. Filed June 8, 1920. Serial No. 387,494. 3 Claims. (Cl. 32—6.)



1. A dental impression tray comprising plate and end members, the former separably hinged longitudinally, side inclosing members attachable thereto, flanges on said plate and end members, and a clamp adapted to maintain said plates and sides in closed relation.

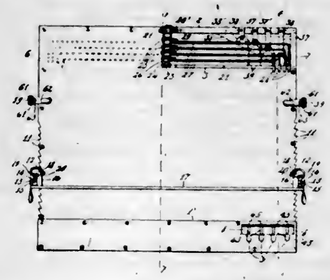
1,351,109. VALVE. WINFIELD S. LIVENGOOD, Kansas City, Mo., assignor to Andrew A. Kramer, Kansas City, Mo. Filed May 9, 1919. Serial No. 295,816. 3 Claims. (Cl. 251—165.)



1. A faucet comprising a casing having a slot extending vertically through it and provided with an inlet and an outlet, a valve between the inlet and the outlet, a spring-actuated slide for normally maintaining the valve on its seat, upstanding flanges on opposite sides of the slot and provided with seats, a flange depending from the casing adjacent to the slot and having teeth, and a valve unseating lever insertible through the slot and having side projections to engage said seats, the lower end of said lever being engageable with the teeth on the flange.

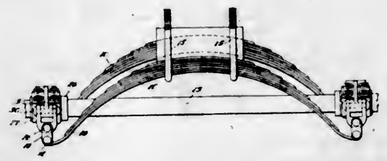
1,351,110. LEAF-TURNER. AMBROSIO VALENTIN LÓPEZ, Marianao, Cuba. Filed Mar. 15, 1917. Serial No. 155,043. 1 Claim. (Cl. 84—17.)

In a music leaf turner, the combination of a pivotally mounted leaf turning arm arranged to swing in a horizontal plane, a pivotally mounted key lever, connections between the arm and the lever to cause the arm to be positively actuated from the key, a spring to move the key lever in one direction and to hence cause the lever



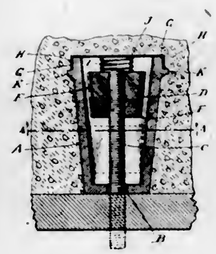
to positively move the arm in one direction, a detent, and means to yieldably engage the detent with the under side of the key lever to cause the detent to yieldably hold the key lever when the latter is moved in the other direction against the tension of the spring.

1,351,111. VEHICLE-SPRING. JAMES A. LUKE, Cleveland, Ohio. Filed Feb. 2, 1920. Serial No. 355,723. 8 Claims. (Cl. 267—19.)



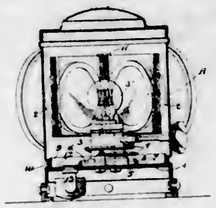
1. In a vehicle, the combination with a vehicle axle, of a pair of leaf springs placed respectively along opposite sides of said axle, and a lever fulcrumed on the axle and connected at its opposite ends to adjacent ends of each spring.

1,351,112. HANGER FOR CONCRETE CEILINGS. EUGENE T. MARTIN, Chicago, Ill. Filed Aug. 28, 1919. Serial No. 320,343. 5 Claims. (Cl. 72—105.)



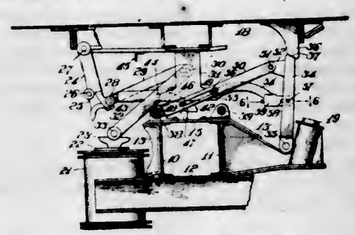
5. In a device of the character described, an open topped socket having a wall adapted to be placed flush with a face of the concrete, said wall having an opening through which a bolt can project from the interior of the socket, an interlocking cover for the top of the socket, said socket adapted to contain a non-rotatable nut to receive the bolt and deep enough to permit the bolt to be pushed into the socket until the outer end of the bolt is flush with the outer face of said wall.

1,351,113. SIGNAL-LAMP. AUGUST MEYER, Wellston, Mo., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 2, 1919. Serial No. 308,210. 2 Claims. (Cl. 240—23.)



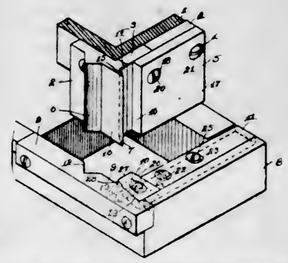
1. In a signal lamp, a shell, a lamp centrally disposed in said shell above the bottom thereof, a rim surrounding said centrally disposed lamp, and a screen carrier comprising a ring interposed between said rim and the signal lamp shell, said shell having a rounded annular bead and said carrier ring having a marginal flange contacting with each other.

1,351,114. DUMP-CAR. ORTUS E. MOATS, Chicago, and JAMES D. BENBOW, Aurora, Ill., assignors to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Filed Sept. 26, 1918. Serial No. 255,795. 12 Claims. (Cl. 105—271.)



1. A dump car composing a suitable under body, a car bed mounted to rock thereon, power operated mechanism for tilting the bed, laterally swinging integral struts between the under body and the sides of the bed for normally holding the bed in its normal position, members connected respectively with the under body and with said struts and coöperating to hold said struts in operative position and operated by the actuation of said power operated mechanism to dump the bed to release the struts at the dumping side of the car, and means for positively moving said struts into operative position when the car bed is righted.

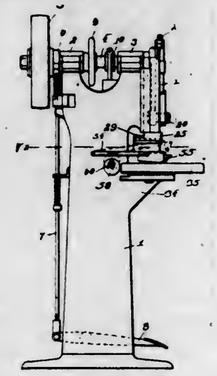
1,351,115. ADJUSTABLE CUTTING-KNIFE. WILLIAM F. MORSE, Rochester, N. Y., assignor to Samuel R. Parry, Rochester, N. Y. Filed Sept. 29, 1917. Serial No. 193,981. 10 Claims. (Cl. 164—58.)



1. A cutting die formed of two cutting bars placed one at the side of the other and having an acute angular

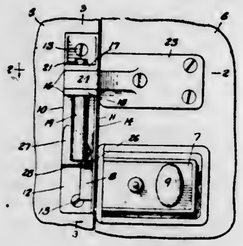
recess between them, one of said cutting bars having an oblique seat on the other cutting bar along which it can be adjusted to take up wear and grinding and preserve the outline of the original cutting edge.

1,351,116. CORNER-CUTTER. WILLIAM F. MORSE, Rochester, N. Y., assignor to Samuel R. Parry, Rochester, N. Y. Filed Oct. 10, 1917. Serial No. 195,830. 5 Claims. (Cl. 164—50.)



1. In a machine for cutting box corners, the combination of a frame having a V-shaped recess extending rearwardly therein, the sides of said recess forming reinforcing members for said frame in the front thereof, a table in front of said recess and a cutter reciprocating above said table and between said table and said recess.

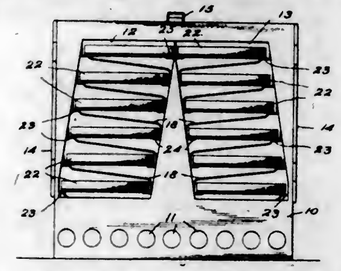
1,351,117. LOCK CONSTRUCTION. FREDERICK A. NEWHALL, New York, N. Y. Filed Dec. 13, 1919. Serial No. 344,530. 4 Claims. (Cl. 70—15.)



1. The combination with a lock, of a supplemental lock comprising a striking plate secured to a stationary support, an apertured lock element movable into and out of engagement with said striking plate, a lock bolt movably mounted in the striking plate and adapted in one position thereof to pass through said lock element to secure in engagement with said striking plate, means operated by the latch bolt of the first named lock for moving said lock bolt into its operative position, and means whereby the withdrawal of said latch bolt will permit said lock bolt and the means for operating the same to move into inoperative position by gravity.

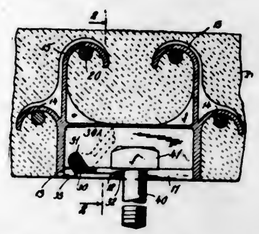
1,351,118. APPARATUS FOR DEHYDRATING FOOD PRODUCTS. FRANK L. NICHOLS, Stamford, Conn. Filed Feb. 4, 1919. Serial No. 274,866. 3 Claims. (Cl. 34—39.)

1. In apparatus for dehydrating food products, a casing provided with an inlet and an outlet flue, deflecting plates forming separate branch passages between said flues, said deflecting plates being provided at their inner



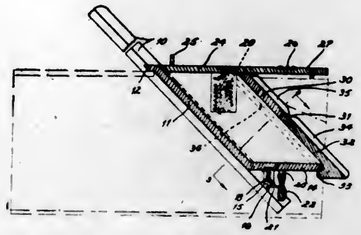
and outer edges with tray supporting ledges and perforated trays supported in a substantially horizontal position upon said ledges.

1,351,119. CONCRETE-INSERT. JOHN EDWARD OGDEN, Cornwall, N. Y. Filed Oct. 19, 1918. Serial No. 258,772. 11 Claims. (Cl. 72—105.)



1. A concrete insert comprising a box-like housing open on one side having parallel side walls and flanges near opposite edges of said side walls extending inwardly therefrom in a plane normal to the planes of said side walls and extending substantially throughout the length of said side walls for supporting the head of a bolt or nut, a part of at least one of said flanges being inwardly movable to permit the insertion of a bolt head or nut.

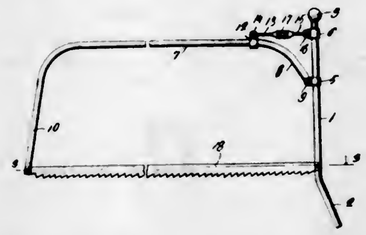
1,351,120. GARBAGE-BOX FOR WAGONS. JOHN ORMANIEC and GEORGE LEMBAS, Novinger, Mo. Filed Oct. 29, 1919. Serial No. 334,134. 4 Claims. (Cl. 220—98.)



1. In a garbage box of the class described, the combination with a rhomboidal container having an open top, a pair of diagonally disposed angular guide rails upon which said container is adapted to slide, detents carried by said container engageable with said rails whereby the container may be held at a desired height, a cover for said container, means for holding said cover in a closed position and a hinged door for the outer wall of said container through which the contents are accessible.

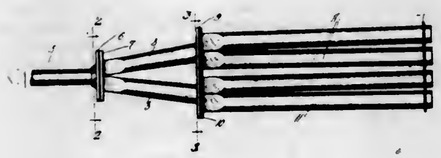
4. In a container of the class described, the combination with a pair of angular guides disposed in spaced parallel relation and in a diagonal plane, of a container slidably mounted in said guide rails, said container having the form of a hollow rhomboid, lugs extending downward from the lower walls of said container, detents pivoted in said lugs, said detents being engageable with the inner surfaces of said angular rails, means for manually actuating both of said detents simultaneously whereby they may be disengaged, and said container raised, said container being adjustable to any height along said rails, a cover element fixedly engaged with the supports of said rails, a hinged cover element engaged with the said fixed element, a handle by which said hinged cover may be operated, a pair of oppositely disposed springs engaged with said cover at one end, and with the side walls of said container at their opposite ends whereby said cover is normally closed, a door hingedly engaged with the outer wall of said cover covering an opening therein, and means at the lower ends of said door engaging with the bottom of said container.

1,351,121. SAW-FRAME. THOMAS OUELLETT, Central Falls, R. I. Filed Oct. 4, 1919. Serial No. 328,365. 1 Claim. (Cl. 145—32.)



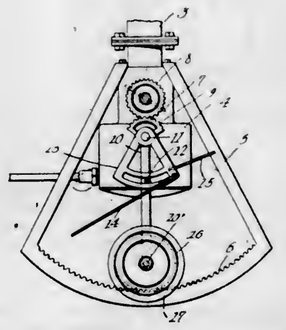
A saw frame comprising a rod having an arm connected at one end to the saw, the other end of the rod being pivotally connected to another rod transverse to the body of said first rod and having a saw pivotally connected to the second rod on the other side of the first mentioned pivot and to the body of the first mentioned rod each of the three pivotal connections comprising a like split clamping ring, two of which clamp the second mentioned rod and one the body of the first mentioned rod, and having projecting ears connected by a pin or rivet which forms the pivot of the first mentioned rod and for the two ends of the adjustable brace.

1,351,122. MUFFLER. HANS PAULSON, Ortin, Wash. Filed June 30, 1919. Serial No. 307,562. 3 Claims. (Cl. 137—160.)



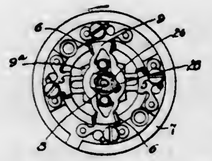
1. A muffler for internal combustion engines comprising a plate provided with an opening adapted to receive an end of the exhaust pipe of the engine, a second plate secured to the first named plate, the second named plate being provided with a plurality of openings partially registering with the opening of the first named plate, and a plurality of diverging pipes secured to the second named plate, the plurality of pipes having their ends secured within the openings of the second named plate so as to receive equally divided portions of exhaust from the exhaust pipe.

1,351,123. GRAVITY CONTROL FOR GAS-ENGINE FEED. EMORY WILLIS PEERY, Lynchburg, Va. Filed Sept. 27, 1918. Serial No. 255,925. 2 Claims. (Cl. 251—11.)



1. A gravity control for gas engine feed, including a carbureter, a valve therein, a gear secured to the stem of the valve, a segmental gear meshing with said valve gear, a rod depending from and movable with the segmental gear, separate frames mounted for oscillation about the axis of movement of the rod and having matching slots concentric with said axis, a pin projecting from the rod and into the slot, and separate means connected to the frames for moving them independently in opposite directions respectively.

1,351,124. ROTARY SNAP-SWITCH. CLARENCE D. PLATT, Bridgeport, Conn. Filed June 30, 1919. Serial No. 307,742. 5 Claims. (Cl. 200—63.)

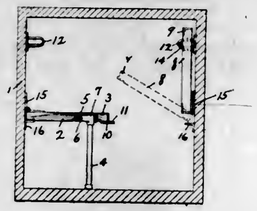


1. In a rotary snap switch, a base, a rotatable spindle mounted thereon, a rotatable switch piece mounted on the spindle, latch mechanism for permitting only a step by step rotation of said switch piece, a spring surrounding said spindle and engaged at one end with said switch piece, a plate having an elongated opening with one portion wider than the remainder and angularly adjustable on and around said spindle, the other end of said spring being engaged therewith.

1,351,125. FOLDING FLOOR FOR RAILWAY-CARS. ROBERT F. REX, Andover, Ohio. Filed Dec. 8, 1919. Serial No. 343,269. 1 Claim. (Cl. 105—372.)

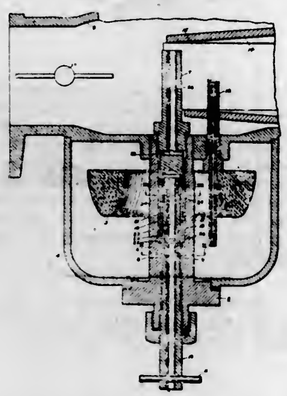
In a device of the class described, having in combination with a railway car, a second floor formed in sections, the outer edge of each section hinged to the sides of said car,

an L-iron secured to the sides of the car directly underneath the hinged edges, folding legs attached to the inner



edges of said section, each leg attached to an offset pivot portion.

1,351,126. FUEL-MIXER. GEORGE F. RITTER and HARRY C. TILLOTSON, Toledo, Ohio, assignors to The Tillotson Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 5, 1916. Serial No. 118,369. 24 Claims. (Cl. 261—41.)



1. In a carbureter, the combination with a fuel supply nozzle, of an air supply passage, a valve comprising a plurality of leaf springs mounted in said passage so that the nozzle is adjacent the greatest movement of the leaf springs and extends transversely of the air supply passage to substantially close said passage when the springs are in their normal position.

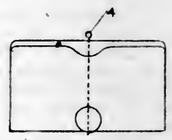
2. In a device of the class described, the combination with a fuel supply nozzle, of an air supply passage, a choke tube section therein comprising a frame having a plurality of triangular shaped sides and a plurality of rectangular shaped sides and a plurality of rectangular sides, and flexible reeds normally closing openings in certain of said sides.

3. In a carbureter, in combination with a main air supply passage, a fuel nozzle projecting into said air supply passage, and a valve comprising oppositely positioned converging flexible reeds having their free ends located adjacent the fuel nozzle and normally coöperating therewith to substantially close said main air supply passage.

4. A device of the class described, comprising the combination of a mixing chamber; a fuel reservoir; a choke tube having side walls formed of flexible reeds adapted to yield under suction to increase the cross section of said choke tube; a primary fuel nozzle extending between the free ends of said reeds, and a secondary nozzle projecting into said choke tube in the rear of said primary nozzle.

5. A device of the class described, comprising the combination of a mixing chamber; a fuel reservoir; a movable choke tube section having side walls formed of converging flexible reeds secured at the rear edges to said section; a primary nozzle projecting into said mixing chamber between the free end of said reeds, and a secondary nozzle projecting into said section behind said primary nozzle.

1,351,127. CLIP AND SUPPORT FOR VERTICAL FILE-FOLDERS. JOHN L. RIVERS, Seattle, Wash. Filed Jan. 22, 1919. Serial No. 272,415. 4 Claims. (Cl. 129—16.7.)



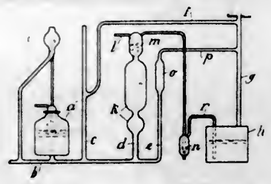
1. A clip and support for a vertical file folder, comprising a body member adapted to support said folder vertically in a file, said member carrying at its top portion a lift, at its lower portion an element adapted to clampingly hold said folder and contents.

1,351,128. UPRIGHT GAS-LAMP. JACOB I. ROBIN, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,079. 4 Claims. (Cl. 67—96.)



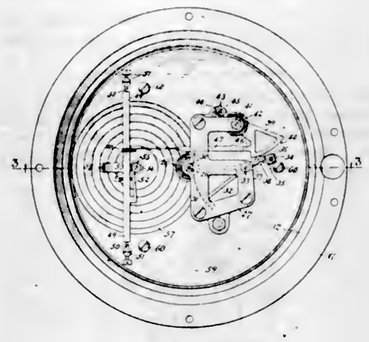
1. An incandescent gas lamp, comprising a bunsen, an upright closed top burner tube thereon, having a plurality of burner holes in its circumference and a central burner hole in its top and an incandescent mantle loosely mounted over the closed-top of said burner tube, so as to extend around said burner holes and be capable of rising under the action of the gas issuing from said central hole to be out of contact with said burner tube.

1,351,129. AUTOMATIC GAS-ANALYZING APPARATUS. OLOF RODHE, Stockholm, Sweden, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden, a Corporation. Filed Jan. 26, 1920. Serial No. 354,283. 2 Claims. (Cl. 23—3.)



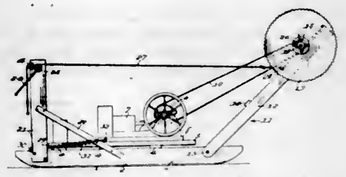
1. An arrangement in automatic gas analyzing apparatus provided with a primary measuring vessel, an absorption vessel and a secondary measuring vessel, characterized by this that a pipe connected with one of the said two last mentioned vessels contains a measuring vessel in which a certain quantity of gas is measured on each analysis, the said quantity of gas being led into one of said two vessels, simultaneously with the gas from the primary measuring vessel.

1,351,130. MEASURING INSTRUMENT. ALFRED ROESCH, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 9, 1918. Serial No. 261,774. 6 Claims. (Cl. 73—74.)



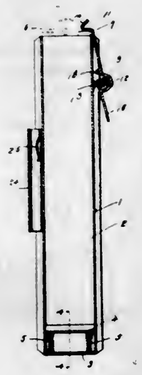
1. In a measuring instrument, the combination of a scale, a pointer coöperating therewith, a shaft carrying said pointer, a pinion on said shaft, a toothed segment in mesh with said pinion, a cam for operating said segment whereby said pointer is actuated, a rock-shaft extending transversely to said pointer shaft, a link connecting said cam and rock-shaft and means located adjacent to said rock-shaft for actuating the same whereby said cam is operated to actuate said segment and pointer.

1,351,131. ICE-CUTTING MACHINE. ETHAN A. RUPLE, Burlington, Vt., assignor of one-half to Raymond F. Ruple, Charlotte, Vt. Filed Mar. 20, 1920. Serial No. 367,346. 4 Claims. (Cl. 262—20.)



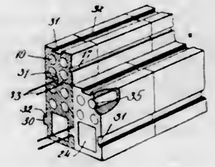
1. In an ice cutting machine, the combination with a supporting frame having guides, of a carriage thereon, power means mounted on the carriage, a beam mounted on the support for movement in a vertical plane and provided with an ice cutting mechanism, driving connections connecting the power means and the ice cutting mechanism, and means for returning the carriage to its normal position when the beam is raised.

1,351,132. CASE FOR FOLDING RULERS. JAMES HARVY RUTLEDGE, Pittsburg, Kans. Filed May 7, 1920. Serial No. 379,579. 5 Claims. (Cl. 24—3.)



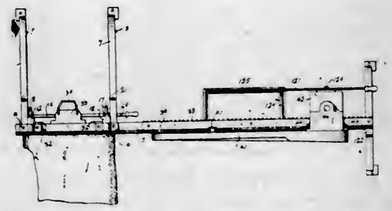
1. A device of the character set forth comprising a ruler receiving chamber, ruler ejecting means in said chamber, means locking a ruler in said chamber against the ejecting means, and a pencil holder carried by said chamber.

1,351,133. INSULATING-CONDUIT. JOHN A. SCHARWATH, Elizabeth, N. J. Original application filed Jan. 15, 1916, Serial No. 72,197. Divided and this application filed Jan. 15, 1918. Serial No. 211,920. 7 Claims. (Cl. 137—75.)



1. In a structure of the character described, bricks or blocks having interfitting tongues and grooves and provided with coöperating opposed key slots in the sides of said tongues and grooves and rods or keys engaged in said coöperating key slots and removable therefrom for the purpose of enabling separation of the bricks or blocks thus keyed together.

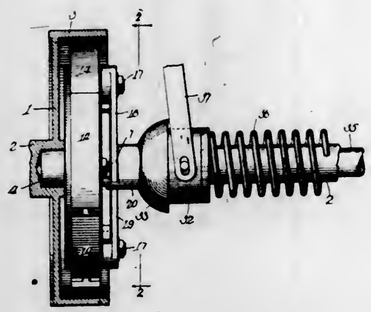
1,351,134. BAG-SEWING MECHANISM. JACOB EMIL SCHMANDT, Harrington, Wash. Filed Nov. 23, 1918. Serial No. 263,858. 18 Claims. (Cl. 112—11.)



1. In a bag sewing machine, a shiftable case having a longitudinally extending slot to receive a bag, sewing mechanism mounted within said case and including a re-

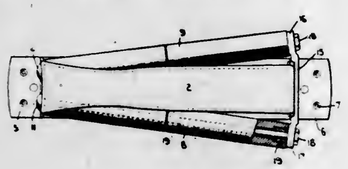
ciprocating needle movable across said slot, means for actuating said mechanism in the movement of the case in one direction and means for retracting the needle within the case when the case is moved in the opposite direction.

1,351,135. CLUTCH. RICHARD SCHMITZ, Chicago, Ill. Filed Feb. 7, 1919. Serial No. 275,493. 6 Claims. (Cl. 192—5.)



2. In a device of the character described, the combination with a member to be gripped, of a clutch mechanism comprising a tube, a hub fixedly mounted thereon having a radially extending flange, stud bolts mounted in said flange, a segment pivotally secured to each of said stud bolts, stud bolts mounted in said segments, frictional devices pivotally carried by all of said stud bolts having frictional engaging surfaces formed thereon, there being U-shaped recesses in said frictional devices adjacent the bearing for said stud bolts, an annular member mounted on said hub, a plurality of rollers in number corresponding to the number of frictional devices, said rollers being fitted to the U-shaped recesses, longitudinally movable means mounted on said tube the movement of which operates to rotate said annular member whereby the frictional devices are projected outwardly.

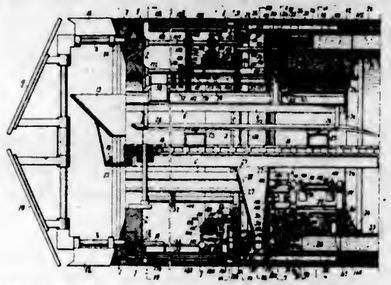
1,351,136. SHOE-POLISHER. WILLIAM E. SHEEHY, East Boston, Mass. Filed Sept. 5, 1919. Serial No. 321,868. 1 Claim. (Cl. 15—58.)



A polishing device comprising a base, a plate having vertical end portions provided with flanges secured to said base and an intermediate shoe supporting portion, the vertical portion at the toe end having a transverse groove therein, shafts, having guiding rollers thereon, anchored at one end in the vertical heel portion and means seated in said groove supporting the other ends of said shafts.

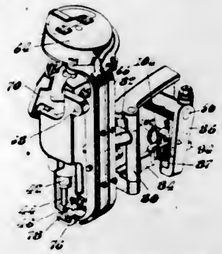
1,351,137. MACHINE FOR BUILDING SEWERS. MILTON ROY SHEEN, Philadelphia, Pa., assignor to Tunnel Machine Manufacturing & Engineering Company, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 7, 1916. Serial No. 118,812. 61 Claims. (Cl. 61—84.)

1. A machine of the character described comprising a circular casing, a structure composed of sectional blocks formed within the casing, a cam rotatably mounted within



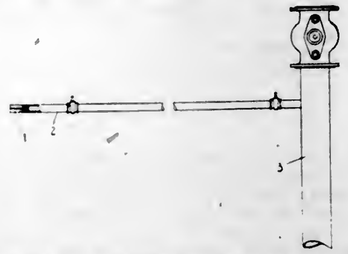
the casing adapted to press against said structure as it is formed, and means for rotating the cam to propel the casing.

1,351,138. EYELETING-MACHINE. ROBERT B. SMITH, Stoughton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 21, 1918. Serial No. 212,972. 7 Claims. (Cl. 218—15.1.)



4. In a machine of the character described, a reciprocable fastener-engaging device, means arranged to reciprocate said device, a raceway the delivering end of which is movable into and out of the path of said device, and mechanism arranged to be operated by a reciprocatory element of said means to control the movements of the raceway, said mechanism including a raceway-operating cam having two relatively long dwell portions connected by a relatively short actuating portion, said cam being shiftable to alter the effective timing of said actuating portion, and means arranged to shift said cam during the latter stages of each stroke of said device to postpone the operation of said actuating portion during the next succeeding stroke of said fastener-engaging device.

1,351,139. APPARATUS FOR EXTRACTING LIQUIDS OR GASES. JAN SONNEVELD, Schela Gura Ocnitsei, near Targoviste, Roumania. Filed Mar. 10, 1917. Serial No. 154,604. 1 Claim. (Cl. 299—107.)



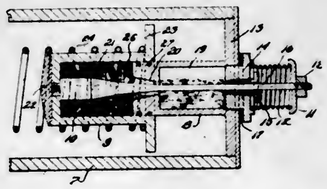
Apparatus for extracting liquids or gases, under pressure and containing granular material, from wells, comprising a discharge pipe connected substantially horizontally to the casing of the well and provided at its outer end with a tubular nozzle of considerable length, the bore of which has a diameter smaller than that of the bore of the pipe, the nozzle bore being coaxial with the bore of the pipe and being rounded at its inner end to reduce the wear caused by the granular material.

1,351,140. DOG-MUZZLE. HENRY LESPINASSE STOKER, New York, N. Y. Filed Oct. 17, 1919. Serial No. 331,442. 4 Claims. (Cl. 119—130.)



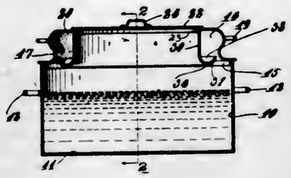
1. A dog muzzle, comprising a frame made of a single integral length of wire, said wire frame bent to fit sides of head and form a U distant in front of and a little below the upper teeth, said wire frame to engage an adjustable neck strap near the ends of said wire frame, means for connecting the U-frame and neck strap, said neck strap to have a fixed position relative to the horizontal plane of said wire frame, said neck strap permitted to have a sliding movement on the length of said wire frame, said neck strap to fit snugly around the dog's neck, said wire frame to engage a nose strap, said wire frame to have a fixed position relative to said nose strap, said nose strap to have an adjustable position relative to said wire frame, said nose strap to fit loosely around dog's snout, said nose strap to have an adjustable circumference, not permitted to expand after adjustment.

1,351,141. BUFFER. JOHN TALIAFERRO THOMPSON, Newport, Ky., assignor of one-half to Thomas F. Ryan, New York, N. Y. Filed Apr. 28, 1920. Serial No. 377,185. 22 Claims. (Cl. 42—3.)



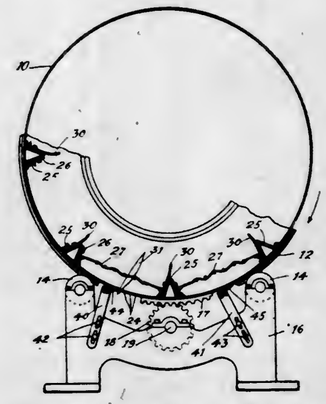
1. A buffer for firearms or the like comprising recoil cushioning means and mechanical means independent of the cushioning means to retard the reaction of said cushioning means.

1,351,142. BOILER. ANTONI TOMASZAK, Cohoes, N. Y., assignor of one-third to Jozef Waz, Cohoes, N. Y. Filed July 20, 1917. Serial No. 181,686. 1 Claim. (Cl. 53—1.)



In a boiler, the combination of a metallic vessel, with a cover fitted thereto, said cover being provided with a flange fitting against the interior wall of said vessel, a central interior tube formed with said cover extending downward therein, an outwardly flaring trough on the lower extremity of said tube having minute perforations and a supplementary flanged cover closing the upper end of said tube.

1,351,143. APPARATUS FOR SNIPPING BEANS. EDWARD J. VAUDREUIL, Eau Claire, Wis. Filed Mar. 12, 1917, Serial No. 154,104. Renewed Jan. 15, 1920. Serial No. 351,556. 8 Claims. (Cl. 146—11.)



1. A machine for snipping bean pods comprising a pair of spaced and apertured members, the apertures of the outer member being of a size to receive the end of a pod and to permit only the portion to be snipped to extend outside of the member, and means coöperating with said outer member to snip such protruding ends.

1,351,144. PROCESS OF ELECTRICALLY DEPOSITING ALUMINIUM. GLEN LENARDO WILLIAMS, New York, N. Y., assignor, by mesne assignments, to Henry Walton Campbell, Detroit, Mich. Filed Mar. 11, 1918. Serial No. 221,736. 19 Claims. (Cl. 204—3.)

13. The process of producing aluminium which comprises electrolyzing an aluminium sulfate while dissolved in a normally liquid anhydrous vehicle inert to aluminium and of higher electrical resistance than the aluminium sulfate to be electrolyzed while in a heated condition.

1,351,145. GOLF-BALL. GEORGE C. WORTHINGTON and WILLIS E. REICHARD, Elyria, Ohio, assignors to Worthington Ball Company, Elyria, Ohio, a Corporation of Ohio. Filed Mar. 9, 1916. Serial No. 83,017. 6 Claims. (Cl. 46—4.)

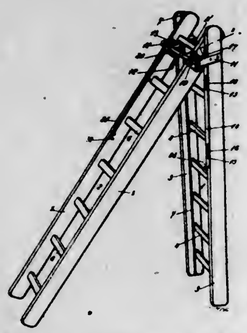


1. In a golf ball, the combination of a center part, a winding of weighted rubber thread or tape about said center part forming a thin stratum, a winding of pure rubber about said first stratum forming a second stratum, a second winding of weighted rubber about said second stratum forming a third stratum of thin weighted rubber, a fourth stratum of pure rubber wound around the third stratum and a shell or cover about the whole.

1,351,146. EXTENSIBLE LADDER. ALESSANDRO ZERLINI, Brescia, Italy. Filed June 26, 1919. Serial No. 306,980. 3 Claims. (Cl. 228—25.)

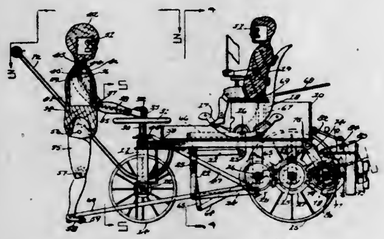
1. A ladder, comprising a pair of separable flights, each embodying connected side beams and steps; one flight

being provided adjacent its top with a horizontal cross-shaft which is attached to the side beams thereof in front of and in spaced relation to the topmost step; the other flight having inwardly-extending slots provided in its side



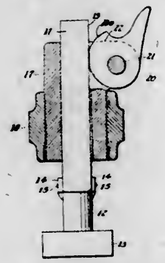
beams adjacent their upper ends to receive the adjacent portions of said shaft, and also having retaining means associated with one of said slots to bridge the same and thereby lock said shaft against displacement.

1,351,147. AUTOMATIC VEHICLE TOY. BÉLA ZSARNAY, Belleville, N. J. Filed Mar. 27, 1920. Serial No. 369,174. 2 Claims. (Cl. 46—45.)



1. A mechanical toy comprising a wheeled carriage, a rocking chair on said carriage manikin seated in said chair, and means whereby rotation of the carriage wheels rocks said chair, and means for causing the body of the manikin to move oppositely to the movement of the chair.

1,351,148. WORK-CLAMP. VERNE P. ALEXANDER, Chicago, Ill. Filed Oct. 25, 1919. Serial No. 333,164. 4 Claims. (Cl. 90—59.)

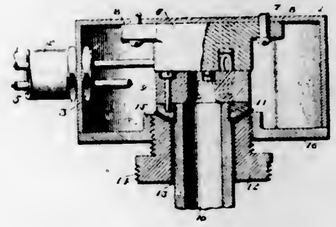


1. A clamping device comprising a headed shank, a sleeve slidably mounted on the shank, means for locking the sleeve to the shank, and a nut threaded on the sleeve and located opposite the base of the head.

1,351,149. FIREPROOFING MATERIAL. HAROLD S. ASHENHURST, Chicago, Ill. Filed Aug. 20, 1919. Serial No. 318,801. 3 Claims. (Cl. 134—45.)

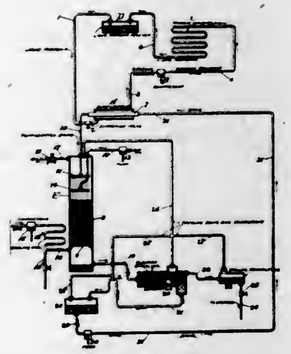
1. A new composition of matter adapted to be sprayed onto surfaces for fireproofing the same, consisting of sodium silicate, water and the finely divided product formed from the waste of asbestos mills.

1,351,150. DEVICE FOR ATTACHING ELECTRIC-LIGHT FIXTURES TO OUTLET-BOXES. RICHARD BATTLE, Okmulgee, Okla. Filed Apr. 11, 1919. Serial No. 289,268. 5 Claims. (Cl. 247—20.)



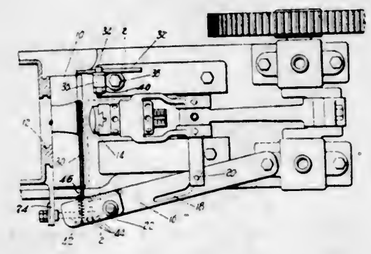
2. In combination with an outlet box having a cover plate, a pipe connection, a plug and a sectional electrical connection for an electric lighting fixture, one of said sections being secured to the box and the other being supported by the mounting for the fixture, of a collar on the inner end of the pipe connection to which the section is connected, the plug having threaded engagement with the cover for the outlet box, and engaging the collar at its inner end.

1,351,151. ART OF OBTAINING VOLATILE LIQUIDS FROM GASES. LLOYD FELCH BAYER, Tulsa, Okla. Filed Oct. 11, 1917. Serial No. 196,005. 3 Claims. (Cl. 196—25.)



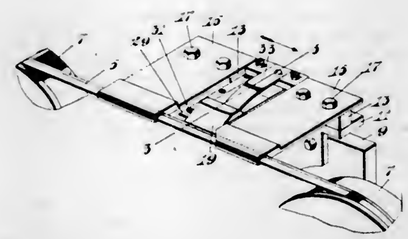
1. In the art of treating hydrocarbons, the method of obtaining volatile hydrocarbon liquid from gas, said method comprising commingling the gas with a hydrocarbon oil, confining said gas and hydrocarbon oil under pressure, at the same time artificially refrigerating another liquid and commingling the refrigerating liquid with the oil and gas, so as to refrigerate the oil and gas under pressure, thereby condensing volatile constituents of the gas and blending such condensate with the oil, and thereafter separating the refrigerating liquid from the blended hydrocarbons.

1,351,152. MACHINE FOR OPERATING ON HEELS. CHARLES A. BLISS, Bradford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 21, 1918. Serial No. 213,045. 21 Claims. (Cl. 1—33.)



1. In a machine for operating upon heels, a support, a feeding member arranged to move heels over the support, means for holding the heels during the operation, and a guide for the heels as they are moved along the support, said guide being interposed between the holding means and the heels.

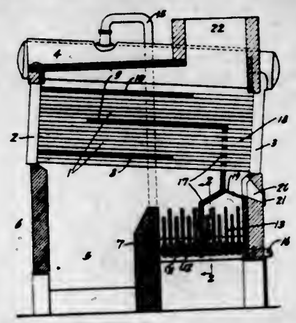
1,351,153. MACHINE FOR REMOVING SURPLUS MATERIAL. BUDD D. BOHANAN, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 24, 1916. Serial No. 110,942. 16 Claims. (Cl. 69—10.)



1. A machine for removing surplus material projecting beyond a seam which joins two or more flexible articles, having in combination, a knife, means for operating the knife, a combined support for the surplus material and cutting bed for the knife, and means for causing the edge of the knife to pass through the surplus material into contact with the bed.

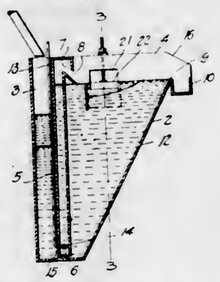
1,351,154. BOILER WITH SUPERHEATER. BENJAMIN BROIDO, New York, N. Y., assignor to Locomotive Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 24, 1918. Serial No. 213,514. 5 Claims. (Cl. 122—469.)

1. In a boiler comprising a front and a rear water leg, horizontal parallel rows of water tubes connecting them, and a furnace under the tubes bounded at the rear by a bridge-wall, the combination of a baffle between two rows of tubes but terminating short of each water-leg, a partition extending downwardly from the rear end of the baffle into the space behind the bridge-wall and terminating short of the bottom of the setting, a second baffle below and parallel to the first extending from the front water



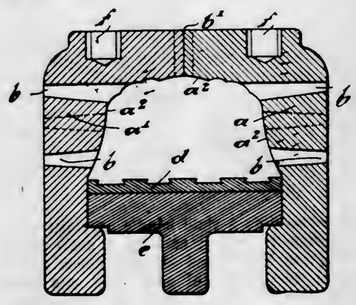
leg and terminating short of the partition, and a superheater behind the bridge-wall.

1,351,155. ORE-FLOTATION APPARATUS. JAMES B. BROWN, Denver, Colo. Filed Sept. 4, 1917. Serial No. 189,568. 9 Claims. (Cl. 83—85.)



1. In ore-flotation apparatus, a container divided into a feed chamber, a separating chamber provided with an overflow and a transfer-conduit which, adjacent its bottom, communicates with each of the chambers for the reception of material, and which has an outlet adapted to deliver material in sheet-like form onto the liquid level in the separating chamber, determined by the overflow, and means for introducing a gas into the lower part of the transfer-conduit.

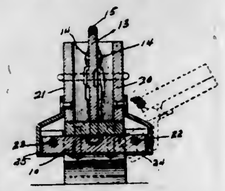
1,351,156. MANUFACTURE OF RUBBER TIRES OF THE SOLID OR BAND TYPE. CUTHBERT BURNETT and ALBERT EDWARD BURNETT, Trowbridge, England. Filed Oct. 17, 1919. Serial No. 331,457. 1 Claim. (Cl. 18—42.)



A tire mold comprising a pair of separable members having a mold chamber formed in their opposing sides,

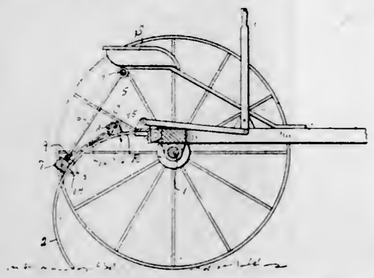
and also provided with spew receiving openings in their side walls out of the midplane of the mold and spew receiving openings in their outer walls at the opposing portions thereof.

1,351,157. MOLDING DEVICE. LEON E. BUTLER, Chicago, Ill. Filed Apr. 12, 1919. Serial No. 289,527. 4 Claims. (Cl. 25—121.)



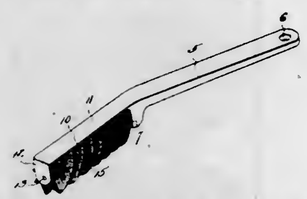
3. The combination with a base of a pattern plate having a relief on each side, each of which forms one half of a figure and is adapted to register with the other, means to hold said plate rigidly in position, a pair of channels pivoted to said base adapted to engage said plate with their edges and to be swung away therefrom and means to hold said channels tightly against said plate.

1,351,158. SULKY-RAKE. STEPHEN N. CANFIELD, Holly, Colo. Filed Apr. 21, 1920. Serial No. 375,595. 5 Claims. (Cl. 56—393.)



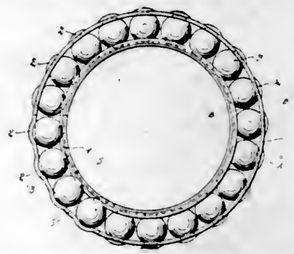
1. In combination with a portable body including a rake supported thereby for vertical swinging movement, a draw bar resting upon the tines of the rake, means for supporting the draw bar for swinging movement in a vertical path, inwardly directed rods pivotally engaged with the draw bar, a head secured to the forward end portions of the rods and resting upon the tines, and teeth carried by the head and extending between the tines of the rake.

1,351,159. ROTARY TOOTHBRUSH. WILLIAM N. CAVILEER and RUTH L. CAVILEER, Ray, Ariz. Filed Mar. 27, 1917. Serial No. 157,734. 1 Claim. (Cl. 15—37.)



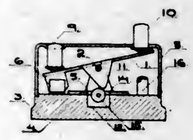
A brush embodying a rigid handle provided at one end with an L-shaped resilient backing, a shaft having one end fixed in the handle and disposed below and in parallelism with the horizontal portion of said backing, a brush body mounted on said shaft, and means for detachably connecting one end of the brush body with the vertical portion of the backing and preventing any accidental displacement of the brush body therefrom.

1,351,160. BALL-CAGE FOR AXIAL-THRUST BALL-BEARINGS. AXEL DANIELSSON, Gottenborg, Sweden, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Filed July 1, 1919. Serial No. 307,905. 2 Claims. (Cl. 64—59.)



1. A ball bearing including a cage composed of an inner ring having a circumferential ball race in its outer periphery, an outer ring, a plurality of balls free to roll in the ball race and the outer ring being provided with spherical seats about its circumference to effect a proper spacing of the balls and to reduce the friction factor between the balls and cage rings to a minimum.

1,351,161. SWITCH. ERIK ARTUR FAGERLUND, Stockholm, Sweden. Filed Feb. 7, 1919. Serial No. 275,644. 2 Claims. (Cl. 200—72.)



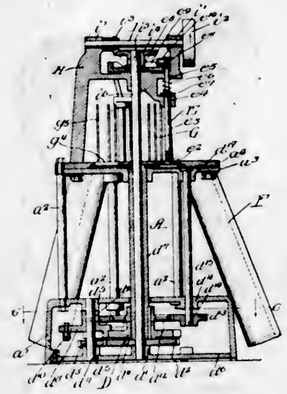
1. In an electric switch the combination with a base and a contact swing lever, of a resilient locking device for said lever consisting of two coöperating members, one of said members being mounted on the lever and the other on the base, one of said members being in the form of an arm and the other member comprising a roller and a flexible pin carrying and forming the axle of said roller, substantially as described.

1,351,162. HERMETIC-SEALING DEVICE. CHARLES W. GRAHAM, Crestwood, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 17, 1916. Serial No. 72,600. 2 Claims. (Cl. 220—81.)



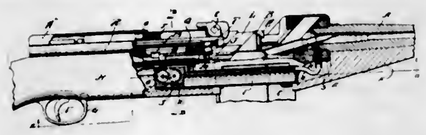
1. A means of forming hermetic joints in cans having ends secured thereto by double seams, comprising a can body having an outstanding seaming flange formed on its end, and a can cover having an outstanding seaming flange of greater diameter than said can body flange, said seaming flange of the cover folding around said body flange and lying parallel with the under surface of said body flange in the completed seam, together with a flat gasket formed with a bent periphery with one leg of the gasket extending under the body flange before the formation of the double seam is begun, so that when a double seam is formed by interfolding said body and said cover flanges portions of said gasket are in parallel contact with both the inner and outer surfaces of the body flange and the surface of the cover flange is in contact with said parts of the liner to form an hermetic joint.

1,351,163. CAN-END-LINING MACHINE. CHARLES W. GRAHAM, Crestwood, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 4, 1916. Serial No. 82,056. 22 Claims. (Cl. 113—80.)



1. In a machine for assembling liners and can ends, the combination of a central intermittently rotatable carrier, means adapted to deliver thereto elements to be assembled, carriers which are intermittently rotatable and which are arranged and spaced around said central carrier and intersect therewith for the alinement of said elements with other elements, means for delivering said other elements to each of said spaced carriers, and sets of assembling devices arranged around the center of the central carrier and alternating with the element-delivering means thereof, whereby a plurality of elements are received by the central carrier at the same intermission during which a plurality of other elements are assembled with can ends, the central carrier and the other carriers having simultaneous receiving and assembling intermissions of movement.

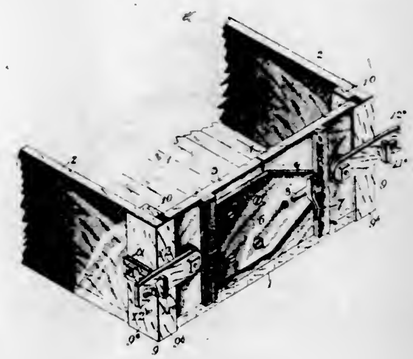
1,351,164. GUN LUBRICATION. OLIVER B. GRAHAM, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed July 2, 1919. Serial No. 308,222. 5 Claims. (Cl. 42—1.)



1. A gun comprising a firing chamber, an automatic breech closure, means for automatically feeding ammunition to said chamber, a lubricant reservoir, a duct extending from said reservoir to the mouth of said chamber, and means actuated by the breech closure in its closing movement to force lubricant through said duct, said automatic breech closure and ammunition feeding means and lubricant forcing means being synchronized to spray lubricant on the ammunition in transit to the firing chamber.

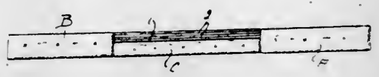
1,351,165. END-GATE. HIRAM E. GRIGGS, Wayne, Nebr. Filed Dec. 26, 1919. Serial No. 347,293. 2 Claims. (Cl. 296—55.)

1. In a device of the character described, the combination with the sides and bottom of a wagon box, of an end-gate hinged between its ends to open rearwardly; spaced cleats on the sides of the box for engaging the free ends of the end-gate sections to hold them against lateral movement while permitting them to move toward each other when the end-gate is opened rearwardly; rearwardly projecting keepers secured to the sides of the wagon box; corner latches pivoted at their inner ends to the hinged sections of the end-gate, and provided at their



outer ends with means for engaging and disengaging said keepers, said means including longitudinal slots in engagement with said keepers to permit longitudinal movement of the latches on the keepers for permitting the sections of the end-gate to move toward each other when opened rearwardly without becoming detached from the sides of the wagon box; and means for securing the end-gate sections in rigid relation to each other.

1,351,166. MATTRESS. ELIZABETH E. GUNDLACH, Madison, Wis. Filed Mar. 3, 1920. Serial No. 363,038. 1 Claim. (Cl. 5—13.)

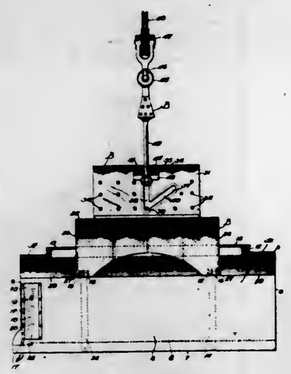


A mattress comprising three separable sections, the intermediate section being of a thickness less than the thickness of the remainder of the sections and being of a length greater than each of the end sections, separable pads adapted to be superimposed upon said intermediate section to compensate for the difference between the thickness of said intermediate section and the remainder of the sections, and a sheeting of material impervious to moisture interposed between said intermediate section and said pads.

1,351,167. CARGO-HANDLING APPARATUS. JAMES G. GUNN, Cherokee, Iowa. Filed Jan. 2, 1920. Serial No. 348,827. 8 Claims. (Cl. 294—69.)

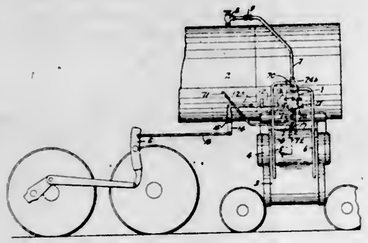
1. A cargo handling device comprising a receptacle, a lifting device detachably secured to said receptacle and being provided with a V-shaped slot, means disposed in said slot and adapted to be attached to a crane or simi-

lar power device for raising and lowering the receptacle and its attached lifting device when the said means is in



one arm of the V-shaped slot, and for dumping the receptacle when it is in the other arm of the slot.

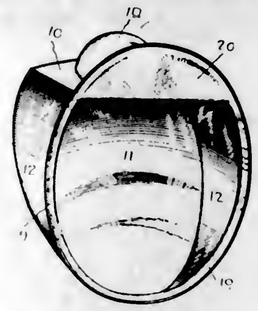
1,351,168. DRIFTING AND BY-PASS VALVE. CHARLES D. HILFERTY, Yonkers, N. Y., assignor to Locomotive Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 8, 1917. Serial No. 200,920. 5 Claims. (Cl. 121—137.)



1. In a locomotive, the combination of a valve chest, a main engine cylinder, a by-pass connecting its two ends, a conduit connecting the by-pass with the locomotive steam space, a differential piston valve for controlling the by-pass and for shutting off communication from the conduit to the by-pass, pressure on the smaller and on the larger areas of the piston valve tending to open it and to close it respectively, and means to subject the smaller area to live steam pressure at all times, and the larger area to a pressure substantially equal to valve chest pressure while the locomotive is moving above a low pre-determined speed and to live steam pressure when moving below that speed or standing still.

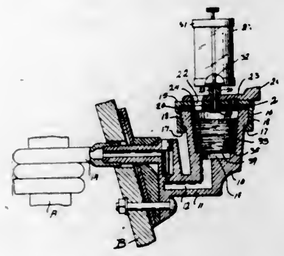
1,351,169. HEADLIGHT-REFLECTOR. PAUL M. HOTCHKIN, Chicago, Ill., assignor to National X-Ray Reflector Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1916. Serial No. 79,747. Renewed Feb. 16, 1917. Serial No. 149,149. 2 Claims. (Cl. 240—41.)

1. A device for reflecting light, comprising two substantially concaved reflectors, one of which is in a plane above the other, the lower reflector extending under the axis of the upper reflector, and side reflectors having curved walls, the said side reflectors having their edges



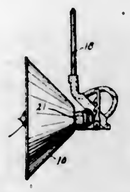
merging with the lower of the first mentioned reflectors, as and for the purpose described.

1,351,170. AUXILIARY AIR AND WATER SUPPLYING DEVICE. CHARLES W. JENKINS, Ellerson, Va., assignor of one-half to Lee B. Hancock, Richmond, Va. Filed Jan. 25, 1919. Serial No. 273,158. Renewed Apr. 21, 1920. Serial No. 375,651. 3 Claims. (Cl. 261—94).



1. An auxiliary air device comprising a chamber having an outlet at one end, a cover detachably closing the opposite end of the container, and having an air inlet opening, a liquid container having a tubular stem extending through the cover and mounted thereon, a rotatable air valve through which said stem passes, the stem forming a pivot for the valve, and a needle valve passing through the container and controlling the outlet through said tubular stem.

1,351,171. LAMP-BRACKET. CARL ALFRED JOHNSON, New Bedford, Mass. Filed Apr. 2, 1920. Serial No. 370,848. 3 Claims. (Cl. 240—88.)



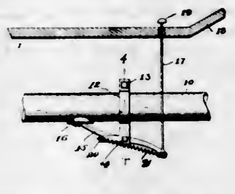
1. An adjustable lamp bracket comprising a supporting arm adapted to engage the flexible suspending conducting cord by one end and the lamp portion by the other end, said arm being jointed intermediate its ends, and a connector between said arms for retaining the members of said arm in adjusted position at different angles to each other.

1,351,172. SHOE-COUNTER. JOSEPH JONES, Cincinnati, Ohio, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 10, 1916. Serial No. 83,382. 1 Claim. (Cl. 36—68.)



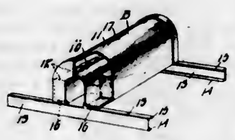
A heel stiffener adapted to interline the rear portion of a shoe and having wings arranged to terminate adjacent to the heel breast line of the shoe, the body of the stiffener being adapted to embrace the ball of the heel and terminating substantially at the junction of the vamp and top of the shoe, said stiffener having a vertical skived and lapped joint at its rear end comprising a plurality of rows of stitches arranged vertically of the stiffener to render the stiffener flexible widthwise without impairing its stiffness vertically.

1,351,173. MUFFLER CUT-OUT. ORSON F. KIRKPATRICK, South English, Iowa. Filed June 10, 1918. Serial No. 239,294. Renewed June 28, 1920. Serial No. 392,514. 1 Claim. (Cl. 251—10.)



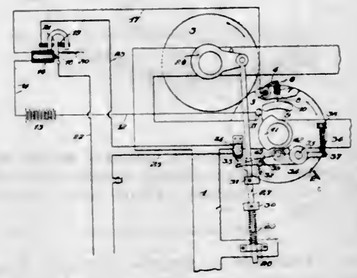
A muffler cut-out for automobile engines comprising an exhaust pipe having an opening in its lower side, a band clamped around the pipe in the rear of the opening and having an arm extending from its lower end forward and bent aside, a lever pivoted between its extremities to said lower end of the band and having its rear end bent aside, a plate carried by its front end and adapted to close said opening, an operating rod rising from the rear end of the lever, and a contractile spring connecting the lateral bent portions of the arm and the lever and passing the lever-pivot in its neutral position, whereby the lever is held in either extreme position.

1,351,174. SPRING-LEAF OILER. FREDERICK KLEINSMITH, Indianapolis, Ind. Filed Mar. 22, 1919. Serial No. 284,364. 3 Claims. (Cl. 184—1.)



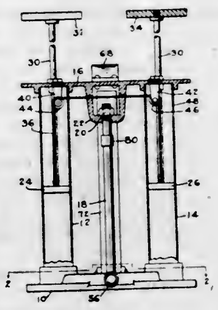
2. An oiler for leaf springs comprising an oil container formed with a chamber surrounding a central passageway and having closed ends and bottom with oil outlet passages at said ends, a clamping bolt extending through said central passageway for securing said oiler in position, the ends of said chamber being provided with extension bars extending each way from said chamber and adapted to embrace the edge of the spring and serve to guide the oil lengthwise of the spring from said container, substantially as set forth.

1,351,175. PRINTING-PRESS. FRANK J. LEHR, Rochester, N. Y., assignor to Stecher Lithographic Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 27, 1917. Serial No. 188,347. 5 Claims. (Cl. 101—234.)



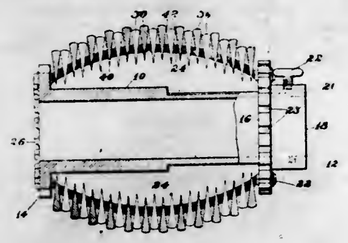
1. In a printing press, the combination of a frame, an impression cylinder rotatively mounted therein and adapted to receive a work sheet, a rotatable plate cylinder normally in contact with said impression cylinder, a rock arm pivoted to the frame, means actuated by said impression cylinder for rocking said arm, and an electrically controlled bell crank pivoted to said rock arm and adapted to separate said cylinders in the absence of a work sheet on the impression cylinder.

1,351,176. AIR-PUMP. CHARLES G. LILLOS, Minneapolis, Minn. Filed Aug. 25, 1919. Serial No. 319,777. 2 Claims. (Cl. 230—27.)



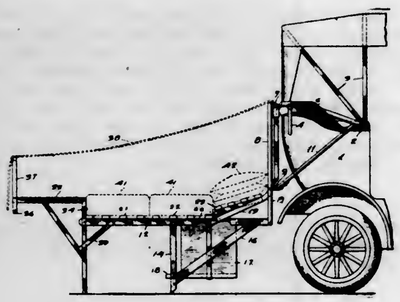
1. An air pump comprising a base, a pair of cylinders secured to said base, a plate fitting the tops of said cylinders, a lug depending from the middle of said plate, a rod secured to said base and to said lug, plungers in said cylinders, a pair of rods extending up from each of said plungers, foot-plates secured to the upper ends of each pair of rods, rollers mounted at the tops of said cylinders, and a cable running over said rollers and attached at its ends to said plungers.

1,351,177. FINISHING DEVICE. EDWARD B. LIMLE, Cincinnati, Ohio, assignor, by mesne assignments, to United-Xpedite Finishing Company, Berwick, Me., a Corporation of Maine. Filed Mar. 5, 1918. Serial No. 220,493. 31 Claims. (Cl. 12—105.)



4. In a finishing device, a revoluble flexible member, and a plurality of work-engaging members each provided with an elongated opening through which the flexible member extends.

1,351,178. FOLDING CAMPING DEVICE. JAMES F. LONG, San Francisco, Calif. Filed Aug. 29, 1919. Serial No. 321,243. 5 Claims. (Cl. 5—72.)



1. A folding camping device comprising a frame arranged to be attached to the rear of a motor vehicle or the like; vertically disposed stringers pivotally mounted at their lower ends to the frame and arranged to be lowered to extend horizontally from said pivotal points; suitable legs secured to the stringers; braces between said legs and stringers; a receptacle pivotally mounted between said braces; means for maintaining the receptacle in an upright position; a table portion pivotally mounted upon the upper ends of the stringers and having legs on one side of said table whereby the top of said table will extend above the top of the stringers when lowered to a horizontal position; and a U-shaped crate comprising three sections hingedly connected, one vertical section of said crate having depending legs to engage the bottom of the receptacle, and the horizontal or central section of said crate being adapted for locking engagement with the frame to hold the stringers in a vertical or folded position.

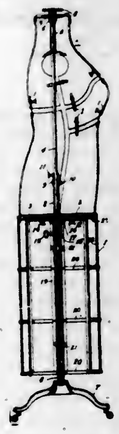
1,351,179. DRESS-FORM. MICHAEL LUERY and BEN S. NELSON, Chicago, Ill.; said Nelson assignor to Model Form Company, Chicago, Ill, a Corporation of Illinois. Filed Mar. 19, 1917. Serial No. 155,841. 5 Claims. (Cl. 112—18.)

1. A dress form comprising a vertical standard, a clutch drum carried at the top of the standard, a form supporting rod extending downwardly through the drum, a clutch collar, rotatable elements carried by the collar



and disposed between the rod and the drum so as to lock the rod, and means for operating the collar to release said elements to unlock the rod.

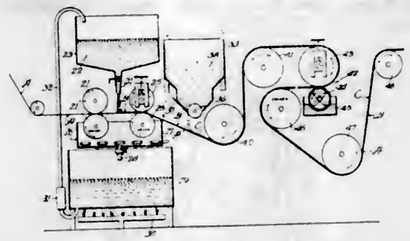
1,351,180. DRESS-FORM. MICHAEL LUERY and BEN S. NELSON, Chicago, Ill.; said Nelson assignor to Model Form Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 19, 1917. Serial No. 155,842. 3 Claims. (Cl. 223—18.)



1. A dress form comprising a base, a tubular standard extending upwardly from and fixed to the base, an adjustable body, a bracket secured to the base of the body and adjustably embracing the standard so that the body may be dropped down to the base into a compact arrangement, and a guide rod secured to the neck of the body and extending downwardly into the standard so as to support the body but permit reducing it by pressing down upon the shoulders.

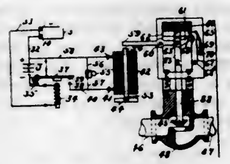
1,351,181. METHOD OF MAKING PREPARED ROOFING. WILLIAM F. MCKAY, La Grange, Ill. Filed Dec. 7, 1915. Serial No. 65,613. 8 Claims. (Cl. 91—67.9.)

8. Steps in the art of making roofing and the like which consist in coating a plastic surfaced sheet with a layer of contrastingly colored granular material, and in selected zones submerging the granules of the layer to



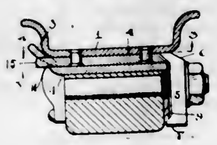
increasing depth into the plastic, thereby blending gradually the colors of the plastic and the granular layers.

1,351,182. TRAIN-CONTROLLING MEANS. JOHN HUGH MCQUILLEN, Philadelphia, Pa. Filed May 8, 1917. Serial No. 167,240. 3 Claims. (Cl. 246—29.)



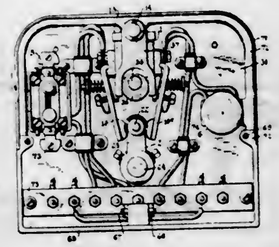
3. In a train control system, the combination of electromechanical control and signal means including a light influenced element and electromechanical control means, said electromechanical control means being arranged normally in an open circuit with a source of electric current supply, said open circuit being closed when said light influenced member is affected by light, and said closing of circuit operating the electromechanical control means, and means arranged to function as a visual signal and to affect said light influenced element, said visual signal means being located adjacent to one section or block of a railway and including an incandescent lamp arranged in a normally open circuit with a source of electric current supply, said circuit being closed by a locomotive or train in an adjacent block of the railway.

1,351,183. WHEEL WITH DEMOUNTABLE RIM. JOHN C. MANTERNACH and CHARLES W. GRESSLE, Cleveland, Ohio, assignors, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 1, 1916. Serial No. 101,013. 6 Claims. (Cl. 152—21.)



1. The combination with a wheel body; of a demountable rim therefor of the transversely split type, movable laterally onto and off from said wheel body; interfitting plates on the respective ends of said rim adapted to lock the same against relative lateral movement; and means on said wheel body adapted to engage said plates to draw the same, and thereby such rim-ends, together as said rim is placed in position on said wheel body.

1,351,184. CIRCUIT-CONTROLLER. WILLIS S. MORSE, New York, N. Y., and CLARENCE T. EVANS, Milwaukee, Wis. Filed Feb. 18, 1916. Serial No. 79,101. 22 Claims. (Cl. 200—6.)

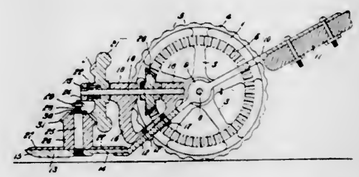


1. The combination with an oscillatable switch arm, and opposed contacts yieldingly mounted thereon, of an electromagnetic ratcheting mechanism to effect adjustment of said arm in steps and a contact member located between said opposed contacts and movable bodily in opposite directions for engaging said contacts selectively.

4. The combination with an oscillatable switch arm and a plurality of sets of opposed contacts mounted thereon for movement therewith, of a contact member located between said opposed contacts and movable bodily in a single direction for interrupting circuit between one set of opposed contacts while engaging another of said contacts.

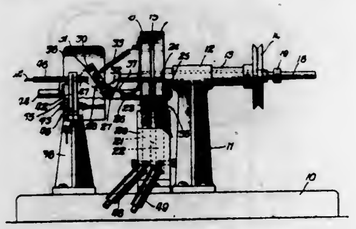
22. In a circuit controller, the combination with an electric switch mechanism, of an electromagnetic ratcheting mechanism for adjusting one of the elements of said switch mechanism, said mechanisms being readily separable, an inclosing casing for said mechanisms having a removable wall for supporting said ratcheting mechanism and means on the exterior of said wall and operatively connected to a member included in said ratcheting mechanism for indicating the position of said element, said means being manually operable to effect direct adjustment of said element.

1,351,185. LAWN-TRIMMER. ERNEST E. MUZZY, Canton, Ohio, assignor of one-half to Charles H. Ritterbush, Canton, Ohio. Filed May 17, 1919. Serial No. 297,719. 1 Claim. (Cl. 56—255.)



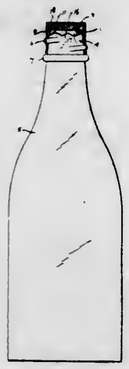
A lawn trimmer comprising a frame, a driving wheel mounted thereon, a stationary cutter bar, a rotary cutter bar coöperating therewith, a balance shaft operatively connected to said driving wheel, a ratchet member provided with beveled recesses carried by said balance shaft, a balance wheel rotatably mounted upon said balance shaft, spring pressed pins carried by said balance wheel and arranged to engage the depressions in said ratchet member and means operatively connecting the balance wheel with the rotary cutter bar, the momentum of the balance wheel thus causing the cutter bar to rotate for a number of revolutions after the driving wheel is brought to a stop.

1,351,186. PROCESS OF AND MACHINE FOR REMOVING COMBUSTIBLE COVERINGS. CARL A. NELSON, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 2, 1917. Serial No. 152,016. 14 Claims. (Cl. 81—9.5.)



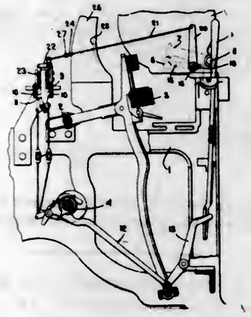
7. In a device of the character described in combination, a rotatable spindle, an insulating disk secured to said spindle, current conducting rings mounted on said disk, means pivotally secured to one face of said disk, a current carrying conductor associated with said means, current conducting means connected with said rings and said conductor, a source of current supply, article holding means comprising a yielding member which clamps said article in a fixed position and with a protruding end to be operated on, means to force said current carrying conductor against a combustible surface of said protruding end whereby a circumferential groove will be burned in said coating and whereby when the article is withdrawn from said holding means said protruding coating which extends beyond said groove is removed by said holding means.

1,351,187. CONTAINER. PATRICK H. QUINN, Somerville, Mass. Filed Dec. 15, 1919. Serial No. 345,112. 2 Claims. (Cl. 215—13.)



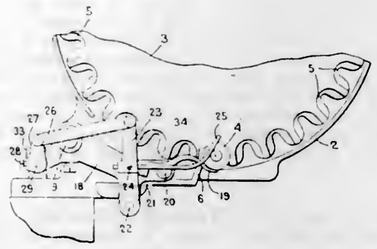
1. A container of the class described comprising a body including an exteriorly threaded neck, a shoulder formed inwardly of the neck closely adjacent the mouth, a stopper penetrating jaw projecting from the inner marginal edge of the shoulder toward the mouth in substantially parallel relation to the inner wall of the mouth, said jaw coöperating with the inner wall of the mouth to form an endless groove, a paraffin coated stopper having a portion of its lower surface engaged with the jaw, a cap adapted to engage the neck over the mouth and paraffin coated stopper, said cap compressing the stopper inwardly of the mouth, whereby the same is penetrated by the stopper penetrating jaw, the marginal edge of the stopper being forced inwardly of the neck into the groove.

1,351,188. AUTOMATIC FILLING-REPLENISHING LOOM. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 20, 1919. Serial No. 339,330. 6 Claims. (Cl. 139—85.)



1. An automatic filling replenishing loom comprising a rotary hopper containing a supply of separately supported fresh filling carriers, means for detecting absence of a fresh filling carrier from the hopper at a predetermined point in its rotation, and mechanical means controlled by the detecting action of the detecting means to effect the stopping of the loom.

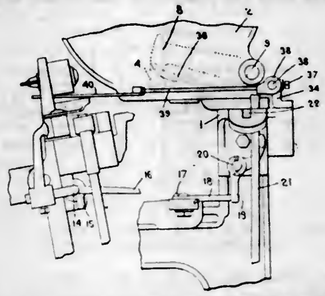
1,351,189. AUTOMATIC FILLING-REPLENISHING LOOM. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 20, 1919. Serial No. 339,331. 7 Claims. (Cl. 139—85.)



1. An automatic filling replenishing loom comprising a hopper containing a supply of fresh filling carriers for successive transfer to the lay, means for detecting a predetermined depletion of said supply, loom stopping means, weft fork mechanism operative to effect actuation of the loom stopping means, and means controlled by the detecting action of the detecting means acting to render the weft fork mechanism operative to effect the actuation of the loom stopping means.

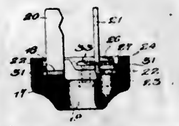
1,351,190. AUTOMATIC FILLING-REPLENISHING LOOM. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 20, 1919. Serial No. 339,332. 7 Claims. (Cl. 139—85.)

1. An automatic filling replenishing loom comprising a hopper containing a supply of fresh filling carriers for successive transfer to the lay, means for detecting a predetermined depletion of said supply, loom stopping means, protector mechanism operative to effect actuation of the loom stopping means, and means controlled by the de-



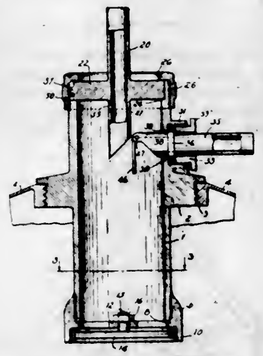
tecting action of the detecting means acting to render the protector mechanism operative to effect the actuation of the loom stopping means.

1,351,191. ELECTRICAL CONNECTING DEVICE. MAXIMILIAN SIDON, Bridgeport, Conn., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 24, 1916. Serial No. 133,110. Renewed Feb. 13, 1920. Serial No. 358,409. 2 Claims. (Cl. 173—343.)



1. A device of the class described, comprising a cap, a contact blade having an offset or base provided with an elongated slot, a binding plate over said offset, and a screw passing through said binding plate and said offset into said cap.

1,351,192. VACUUM MILK-RELEASER CHAMBER. CHARLES E. SOMERS, Milwaukee, Wis., assignor to B-V Milking Machine Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 17, 1917. Serial No. 191,697. 19 Claims. (Cl. 31—98.)



1. In a milking machine, the combination of a releaser chamber provided with a valved outlet and a milk inlet, of an air outlet duct leading from the upper portion of said chamber, open at its lower end and having a smaller opening at one side, and means for substantially closing the end of said duct during the final portion of a suction period.

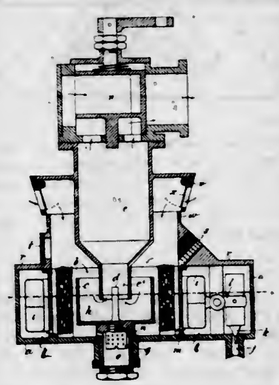
5. In a milking machine, the combination of a releaser chamber provided with a valved milk outlet port, a set of converging ducts projecting through the walls of said chamber near its upper end, and adapted to serve as milk inlet and air outlet ducts respectively, a swinging valve adapted to alternately close the inner ends of said ducts, the ends of said ducts being faced off each in a plane which said valve assumes when swung to closing position thereon, one of said ducts being also provided with an aperture through which air may pass from the releaser chamber into the duct after the valve has been closed upon the end thereof, and means for detachably coupling said ducts to the releaser chamber adapted to permit a removal of the ducts and valve to facilitate cleansing the same.

9. In a milking machine, a releaser chamber provided with removable air outlet and milk inlet fittings extending into the chamber adapted to be non-rotatably adjusted into and out of position upon the walls of said chamber, and means exterior to the chamber for detachably connecting said fittings to the chamber wall, adapted to engage and hold the fittings to the wall under clamping pressure, in their positions of proper adjustment.

12. In a milking machine, the combination with a releaser chamber having milk inlet, air outlet, and milk outlet ports, of a valve for the milk outlet port, adapted to close inwardly, and a valve for the milk inlet port adapted to close when the vacuum is relieved in the chamber, said valve being arranged to also cover the outlet port when air is withdrawn from the chamber, together with means for allowing a relatively slow withdrawal of additional air after the air outlet port is closed by said valve.

19. In a milking machine, the combination with a vacuum chamber open at its lower end, a collar having a valve seat therein adapted to fit over the lower end of the vacuum chamber, a valve suspended from the collar adapted for limited movement therein, said chamber being also provided with removable coupling fittings adapted for connection with the milk inlet and air outlet passages respectively, and a valve adapted when in one position to seat against the inner end of the milk inlet fitting, and when in the other position to seat against the inner end of the air outlet fitting and preventing milk from entering the air outlet, said air outlet also having an aperture near the point of exit from the chamber, adapted to permit an additional withdrawal of air after the valve has closed the end thereof.

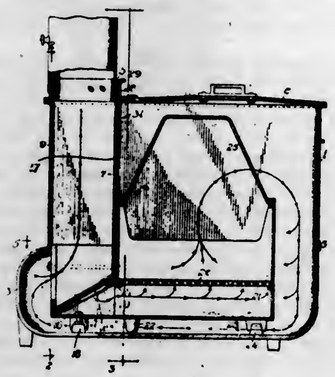
1,351,193. PRODUCTION OF GASEOUS FUEL FOR INTERNAL-COMBUSTION ENGINES. ALFRED WILLIAM SOUTHEY, London, England, assignor to Southey Gas Producers Limited, London, England. Filed Aug. 16, 1916. Serial No. 115,199. 10 Claims. (Cl. 48—211.)



1. The method herein described of making gaseous products which consists in producing a flame, conducting

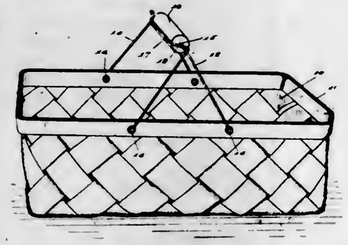
said flame into a restricted passage so as to reduce the cross sectional area of the flame and thus obtain a zone of high temperature, and subjecting liquid fuel to the flame at said restricted zone of high temperature.

1,351,194. TANK-HEATER. OSCAR A. WENBERG, Batavia, Ill., assignor to United States Wind Engine & Pump Company, Batavia, Ill., a Corporation of Illinois. Filed Apr. 6, 1917. Serial No. 160,154. 13 Claims. (Cl. 126—367.)



7. A tank heater comprising an outer casing to be immersed in the water, a fire-box in said casing having a grate, an ash receptacle underneath said grate, means for supplying air to said fire-box to support combustion, and a passage for conducting substantially all the hot burned gases underneath said ash receptacle and along the sides thereof and along the sides of the fire-box, said passage being located adjacent the walls of said outer casing, whereby a large heating surface is provided.

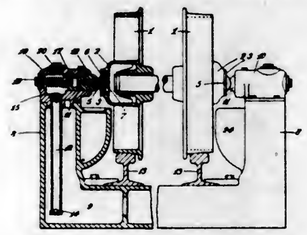
1,351,195. BASKET. HARLAN B. WHITE, Crothersville, Ind. Filed May 22, 1920. Serial No. 383,541. 5 Claims. (Cl. 217—125.)



1. A double-bail basket, comprising a basket with two separably movable wire bails pivotally attached thereto, one of said bails being provided with a carrying handle on its base, and the other bail being provided with an offset base portion which provides hooks which hook around the handle on the first bail.

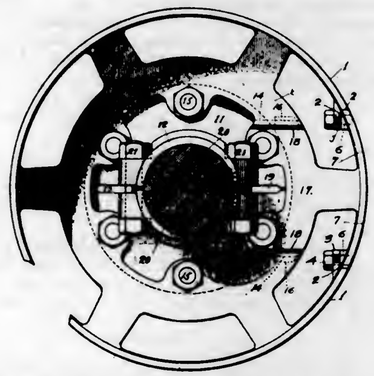
1,351,196. MEANS FOR OILING THE WHEELS OF TRAMWAY AND LIKE VEHICLES. TOM ABBOTT, Pontyclun, Llantrisant, Wales. Filed Jan. 27, 1920. Serial No. 354,489. 4 Claims. (Cl. 64—24.)

1. An oiling apparatus for track-guided vehicles, comprising a stationary cylinder located at right angles to the track, a spring-pressed plunger in said cylinder and provided with passages communicating with a source of oil supply, a spring-pressed plate adapted to be inserted in the hub of the vehicle wheel, and coöperating means carried by the plate and plunger for compressing both of said



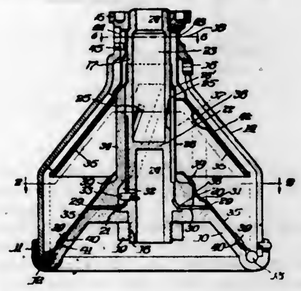
members against the action of their springs, thereby to permit the passage of oil from the plunger into the hub of the vehicle.

1,351,197. SPLIT PULLEY. HORACE T. ADAMS and HUGO ALTMAYER, San Francisco, Calif. Filed Sept. 2, 1919. Serial No. 321,248. 8 Claims. (Cl. 64—18.)



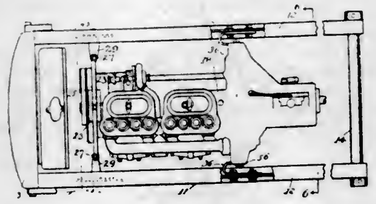
1. A split pulley comprising a hub having an annular flange; a rim detachably mounted upon the flange and having an opening in one side thereof; and a rim segment arranged to seat within the opening in the rim and to be detachably connected to the hub flange.

1,351,198. CREAM-SEPARATOR BOWL. CARL OSCAR ANDERSON, Springfield, Ill., assignor, by mesne assignments, to Thorne Brothers, Incorporated, Chicago, Ill., a Corporation of Illinois. Filed Apr. 13, 1918. Serial No. 228,302. 15 Claims. (Cl. 233—29.)



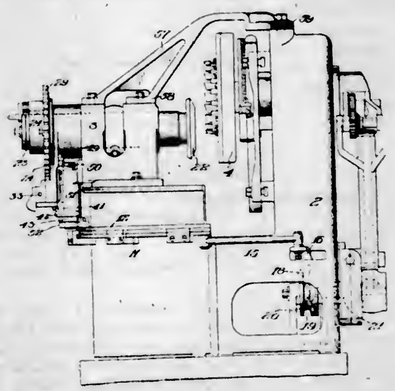
1. In a separator bowl of the class described including a base, a shell associated therewith, and means for holding the same in assembled relation, the combination with an inlet tube carried by said base, said tube having a milk-receiving chamber and a plurality of feed ports communicating therewith, and also provided at its exterior with a series of milk distributing channels into which said ports discharge, of a distributer sleeve surrounding said inlet tube and forming the outer wall of said distributing channels, whereby to direct the flow of the whole milk to the lower portion of the bowl, and a liner surrounding said distributer sleeve and provided with distributing channels in communication with the distributing channels of the inlet tube.

1,351,199. SELF-PROPELLED VEHICLE. OTTO ARMLEDER, Wyoming, Ohio. Filed Apr. 28, 1919. Serial No. 293,170. 8 Claims. (Cl. 180—64.)



1. In a self-propelled vehicle, the combination of a chassis, a motor for propelling the vehicle, and means for mounting said motor on said chassis comprising a bent leaf-spring the edges of which are presented up and down and the respective limbs whereof are secured respectively to said chassis and to said motor.

1,351,200. GEAR-CUTTING MACHINE. EDWARD W. BULLOCK, SCHUYLER H. EARL, and GEORGE H. BRYAN, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Nov. 30, 1917. Serial No. 204,686. 19 Claims. (Cl. 90—56.)



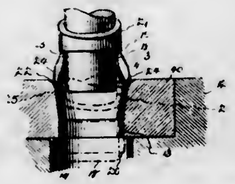
1. In a gear cutting machine, the combination with a blank spindle and an index wheel in fixed relation therewith, of a swinging index frame which is locked to the index wheel during the cutting operation, and actuating means which is normally stationary and is intermittently moved to unlock the index frame from the index wheel and turn it a predetermined distance after which it is again locked to the index wheel and returned to initial position, causing the index wheel to move a corresponding distance.

1,351,201. BAIL-SUPPORT. CHARLES T. CARLAND, Cleveland, Ohio. Filed Oct. 30, 1919. Serial No. 334,579. 1 Claim. (Cl. 220—96.)



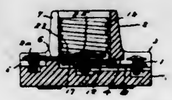
A bail support comprising a single piece of metal having an upright tubular bail clip at its upper end and a cross piece at its lower end, terminating in spaced depending legs the ends of which are turned in at their lower edges to engage the under side of a vessel rim and the cross piece having a notch in its lower edge through which the eye of the bail may extend.

1,351,202. PROCESS OF MAKING METAL BANDS OR RINGS. WILLARD R. CARROLL, Derby, Conn. Filed Jan. 5, 1918. Serial No. 210,422. 2 Claims. (Cl. 29—156.)



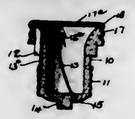
1. The process of making annular shaped articles from sheet metal consisting in forming a perforated disk of substantially uniform thickness and shaping said disk into a coniform ring or band, the ends thereof being of less thicknesses than a point between said ends and finally shaping said ring or band into an article having ends and sides of substantially uniform thickness.

1,351,203. PLUG-CUT-OUT BASE. ROBERT C. COLE, Hartford, Conn., assignor to The Johns-Pratt Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 27, 1919. Serial No. 279,562. 7 Claims. (Cl. 173—342.)



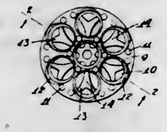
1. A plug cut-out base comprising an insulating socket having a slot in one side with an opening through the side wall into the bottom of the socket at the inner end of said slot, said opening being wider than the slot, and an opening through the side wall into the bottom of the socket on the opposite side from the slot, a threaded metallic shell located in said socket, conducting terminal strips extending from opposite sides through said openings into the socket and held from movement longitudinally out of the socket by the walls of said openings, the inner end of one terminal strip being in contact with the bottom of the shell, an insulating disk separating the inner end of the other terminal strip from the bottom of the shell, an insulating disk in the shell outside of the terminal strip that is in contact with the shell, and a screw turned in from the front through the parts and into the terminal that is insulated from the shell.

1,351,204. FUSE-PLUG. ALBERT F. DAUM, Pittsburgh, Pa. Filed Sept. 12, 1914. Serial No. 861,414. 8 Claims. (Cl. 200—130.)



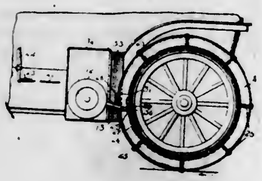
1. In a fuse plug having a cap, a terminal conductor carried by the plug and extending within the plug body with its inner end approaching the axis of the plug, said terminal coöperating with the cap in clamping the fusible element in position.

1,351,205. MOUNTING FOR CLUSTER-TOPS FOR RINGS. ABRAHAM L. ELIASOFF and CHARLES BIRNBAUM, New York, N. Y. Filed Mar. 3, 1919. Serial No. 280,336. 5 Claims. (Cl. 63—28.)



1. As an article of manufacture, a ring cluster mounting comprising a disk-like top having a series of annularly disposed open-ended sockets juxtaposed to the perimeter of said top, the material of said top between the juxtaposed edges of each of said sockets and the perimeter of said top being raised above the contiguous surface of said top in line of those radii of said top which are coincident with the radii of said sockets.

1,351,206. MEANS FOR AUTOMATICALLY APPLYING TIRE-CHAINS TO VEHICLE-WHEELS. WILLIAM W. FARNSWORTH, Littleton, Colo., assignor of one-third to Edward A. Ryan, Kansas City, Mo., and one-third to Edward H. White, Cumberland, Md. Filed Mar. 1, 1917. Serial No. 151,636. Renewed May 5, 1920. Serial No. 379,178. 26 Claims. (Cl. 152—14.)

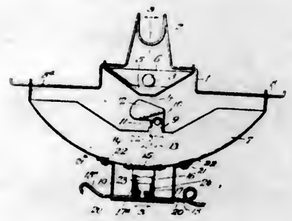


1. Means for automatically applying an anti-skid chain to a vehicle wheel, embodying a carrier for the chain, and means for actuating the carrier to wind the chain about the wheel and deliver the chain entirely from the carrier, the first recited means also operating to interfasten both ends of the chain upon the wheel and at any point about the circumference of the wheel.

14. The combination of an anti-skid chain, a catch at one end of the chain, a catch engaging portion at the other end of the chain, and means for automatically applying the chain to the wheel, the said means embodying a carrier for the chain, said carrier embodying an arm to which the ends of the chain are detachably connected, means for actuating the carrier at will, said arm operating to deliver one end of the chain to the wheel, and also to form a guide for the catch for directing the catch into engagement with the said catch engaging portion for securing the ends of the chain together, and means for housing and protecting the chain and carrier, said housing having an opening through which the chain is delivered to the wheel, and a closure for the opening, said closure adapted to be opened by the actuation of the said carrier.

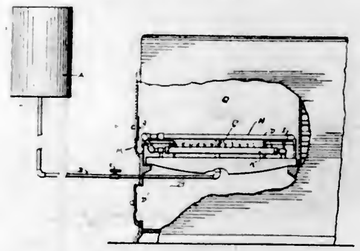
18. The combination of a vehicle body, and a chain carriage on the body, said carriage embodying a movable element to which both ends of the chain are detachably connected, and said element embodying means for delivering the chain to the wheel to be wound thereabout and for securing the ends of the chain together upon the wheel.

1,351,207. AUTOMATIC CIRCUIT-CLOSER. BENJAMIN GOLBIN, Chicago, Ill. Filed Apr. 2, 1917. Serial No. 159,293. 4 Claims. (Cl. 200—142.)



1. In a device of the class described, a carrier provided with an opening, fusible means covering said opening, a metal counterweight mounted on said material, an interrupted electric circuit, the contact points of which are positioned below said carrier, and means whereby when said fusible material is fused, the metal counterweight will establish an electric circuit through said contact points, said means comprising a plurality of metal balls suspended in the path of said counterweight and adapted to be dropped into engagement with said contact points.

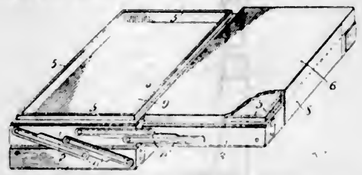
1,351,208. OIL-BURNER. JAMES WILLIAM HAMILTON, Wichita, Kans. Filed Dec. 10, 1918. Serial No. 266,158. 1 Claim. (Cl. 158—63.)



In an oil-gas burner, a coil comprising a series of straight stationary tubes, elbows connecting said tubes, outer tubes rotatably mounted upon said stationary tubes, the latter each having a series of transversely elongated apertures therein, and said outer tubes each having a series of round perforations registering with the respective apertures of the stationary tubes.

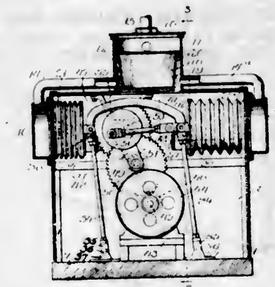
1,351,209. TRAY MECHANISM. MARY M. HAMMOND, Kansas City, Mo. Original application filed Feb. 14, 1916. Serial No. 78,283. Divided and this application filed Oct. 31, 1918. Serial No. 260,530. Renewed Feb. 13, 1920. Serial No. 358,403. 3 Claims. (Cl. 190—17.)

1. In a tray mechanism, two trays adapted to be superposed one upon the other, the lower tray having at its upper edge a continuous flanged portion extending all around said upper edge, the upper tray having side walls which embrace said flanged portion its full length when the trays are superposed one above the other, the flanged



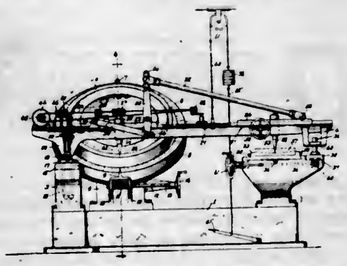
portion holding the upper tray against lateral shifting relatively to the lower tray, a removable bottom fitted in the lower tray, and means supported by said flanged portion for supporting the removable bottom.

1,351,210. PUMPING MECHANISM FOR STATIONARY VACUUM-CLEANERS. PAUL HEILIGER, Chicago, Ill., assignor of one-third to Lyman J. Clarke and one-third to Elmer E. Clarke, Chicago, Ill. Substitute for application Serial No. 51,602, filed Sept. 20, 1915. This application filed Nov. 8, 1919. Serial No. 336,583. 9 Claims. (Cl. 230—2.)



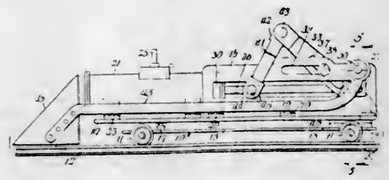
1. In a vacuum cleaner system the combination with a casing, a suction chamber in open communication therewith, a pair of bellows mounted on upright movable supports within said casing, said supporting members being connected with the free end of said bellows, a rigid connecting bar mounted between the free ends of said bellows, and means for operating said bellows to create a vacuum within the system.

1,351,211. DIE SINKING, ENGRAVING, REPRODUCING MACHINE AND THE LIKE. JOSEPH F. KELLER, New York, N. Y., assignor to Keller Mechanical Engraving Co., Brooklyn, N. Y., a Corporation of New York. Filed May 2, 1917. Serial No. 165,871. 9 Claims. (Cl. 90—13.1.)



1. In a machine of the character described, a carrier bar mounted to swing about a universal joint, a tracer point and a cutter, both slidably mounted upon said bar, and means connecting tracer point and cutter whereby they can be slid simultaneously, the ratio of the distances of the tracer point and the cutter respectively from the center of the joint remaining constant for all positions of said tracer point and cutter.

1,351,212. EXCAVATING-MACHINE. JAMES A. MACKILLICAN and FRANK L. LIPCSEY, Hibbing, Minn. Filed Sept. 18, 1918. Serial No. 254,558. 9 Claims. (Cl. 214—134.)



1. In an excavating machine, in combination, a shovel adapted to be swung from a normal position in front of said machine into and out of dumping position above the same, means for giving said shovel a straight forward thrust in front of said machine, means located entirely to the rear of said shovel when at the front of the machine for guiding the same during its straight forward thrust, and means automatically brought into operation at the completion of the straight forward thrust of said shovel for swinging the same into its dumping position and to return the shovel to its normal position in front of the machine after said shovel has reached its dumping position.

1,351,213. CLIP-FASTENER FOR SPRINGS. FREDERICK MEADS, Toledo, Ohio. Filed Dec. 3, 1919. Serial No. 342,219. 1 Claim. (Cl. 5—29.)



As a new article of manufacture, a clip comprising an isosceles triangular body portion, necks adapted to extend from the base and intermediate the points of said body portion, rectangular shaped flaps provided upon said necks, said flaps adapted to be bent so as to form sleeves for receiving convolutions of coil springs, and the points of said body portion adapted to be bent for a like purpose.

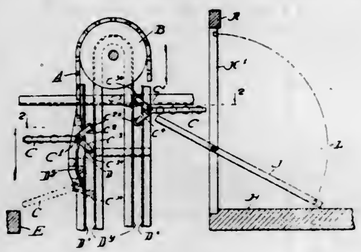
1,351,214. ELECTRIC SWITCH. NORMAN W. NUTT, Trenton, N. J. Filed Jan. 29, 1919. Serial No. 273,711. 2 Claims. (Cl. 173—351.)



2. In an electric switch of the type which has two current carrying contacts, a rotatable current carrying member having a body portion, upturned ends and upturned flanges all extending to the same side of the body portion, and a key shank extending through and secured to the body portion, there being spaces between the adjacent edges of the upturned ends and upturned flanges.

whereby upon the rotation of the rotatable current carrying member in the plane of its body portion an air disturbance will be created.

1,351,215. TRAY-ELEVATOR. SAMUEL OLSON, Chicago, Ill. Filed Jan. 5, 1914. Serial No. 810,357. 3 Claims. (Cl. 193—8.)



3. In a conveyer comprising a belt mounted for vertical travel, a tray pivotally engaged therewith and extending to one side of the axis of engagement, upper and lower guide rollers rigidly associated with said tray, and a guide channel positioned to receive the reactions of said rollers upon its opposite walls respectively, said lower roller being positioned to engage such guide below the plane of the tray, and the vertically extending part of the wall of the guide channel which supports the upper roller having a portion which is deflected away from the opposite wall for tilting the tray in its travel thereover whereby said tilting of the tray is accompanied by a slight bodily movement thereof about the lower roller in a direction for discharge of the load.

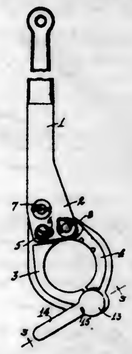
1,351,216. GRAPEFRUIT-CORER. MARIE WATSON PIFER, Sullivan, Ill. Filed May 20, 1920. Serial No. 382,853. 4 Claims. (Cl. 146—6.)



1. An article of the class described comprising a body member including a plurality of expansible spring arms, a cutting blade secured to each arm, and means operatively associated with said arms for flexing them and moving them toward and from each other.

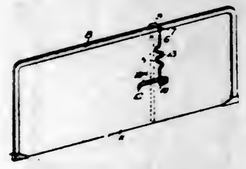
1,351,217. PIPE AND CASING TONGS. LEROY L. RICHARD, Coalinga, Calif. Filed June 23, 1919. Serial No. 306,052. 4 Claims. (Cl. 81—66.)

1. A pipe and casing tongs comprising opposing jaws having at one end interfitting ears with pintle sockets, an associated handle at the other end to effect the gripping and release of said jaws, an axially turnable pintle fitting said sockets and hinging the jaws together, the section of the pintle fitting the socketed ear of one jaw being eccentric to the section of said pintle fitting the socketed ear of the other jaw, whereby the turning of the pintle on its axis will vary the relation of said jaws, and means



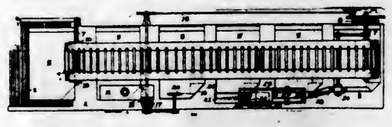
for fixing said pintle in the position to which it is turned on its axis consisting of a latch pin interlocking the pintle and an ear of one of said jaws.

1,351,218. WINDSHIELD-CLEANER FOR AUTOMOBILES. OLIVER C. RITZ-WOLLER, Chicago, Ill. Filed Nov. 30, 1917. Serial No. 204,577. 1 Claim. (Cl. 15—59.)



A device of the class described, comprising a supporting member adapted to slidably contact with the edge of a windshield, a wiper arm adapted to engage the outer surface of said shield, a handle disposed on the inner side of said shield, and a shoe integral with said handle and disposed at substantially right angles thereto and to said wiper arm, said shoe being adapted to contact with the inner surface of said shield to prevent said device from rocking during manipulation and to retain said handle spaced from said shield.

1,351,219. MACHINE FOR MAKING VALVED PAPER BAGS. MAXWELL C. ROSE, Cleveland, Ohio, assignor to The Cleveland-Akron Bag Co., Cleveland, Ohio, a Corporation of Ohio. Filed July 14, 1919. Serial No. 310,611. 10 Claims. (Cl. 93—8.)



5. In a paper bag-making machine, means for feeding a flat bag or tube forwardly with one longitudinal edge in advance of the body, means for tucking the corner of the advance edge of the bag or tube, means for creasing the bag or tube parallel to the end thereof, means adapted to apply paste between the creased folds of the bag or tube, and means adapted to press said pasted folds together.

1,351,220. SKIASCOPE. NATHAN A. SHIGON, New York, N. Y. Filed Feb. 1, 1919. Serial No. 274,410. 10 Claims. (Cl. 88—20.)



1. In combination, a skiascope, a spherical reflecting mirror supported in proximity thereto, a chart adapted to be reflected in said reflecting mirror, said reflecting mirror being disposed relatively to the head of the examiner viewing the patient's eye through the skiascope, so that the virtual image viewed therein is at a distance rearwardly of the examiner's eye at variance with the distance between the reflecting mirror and the patient's eye.

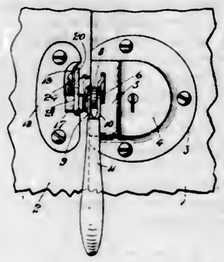
1,351,221. OPTICAL INSTRUMENT. NATHAN A. SHIGON, New York, N. Y. Filed Mar. 30, 1920. Serial No. 369,917. 5 Claims. (Cl. 88—20.)



1. In an optical instrument, a mirror, illuminating means arranged in proximity to the mirror and the latter being adapted to reflect light from the illuminating means, a chart arranged adjacent the mirror to be viewed by the patient, a second illuminating means arranged in position for illuminating the chart, a common support for said mirror, chart means, and both of said illuminating means, and electric conductors for both of said illuminating means and including said supporting means as a portion thereof.

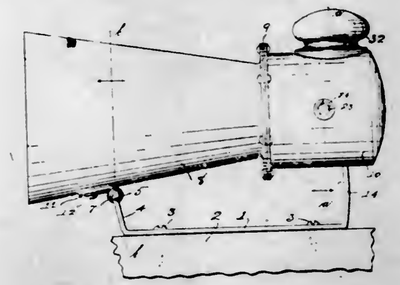
1,351,222. LATCH CONSTRUCTION. DANIEL WEBSTER TOWER, Grand Rapids, Mich., assignor to Grand Rapids Brass Co., Grand Rapids, Mich., a Corporation of Michigan. Filed Dec. 4, 1918. Serial No. 265,249. 4 Claims. (Cl. 292—242.)

4. In a latch construction, a housing having a raised portion provided with a slot in the top thereof, a member connected to the housing and projecting outwardly from the top thereof, a handle having a divided upper end one part passing to each side of said member and pivotally connected thereto, each part being of flat relatively thin metal and one part passing into the housing through said slot, and the other part passing alongside of the housing and having a section turned laterally at its free end, a sleeve around and secured to said section, and a



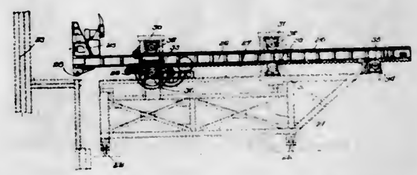
spring in the housing acting against the part of the handle passed into the housing, substantially as described.

1,351,223. HORN. GEORGE F. VOIGHT, San Francisco, Calif. Filed Mar. 21, 1919. Serial No. 284,028. 6 Claims. (Cl. 116—144.)



1. The combination with the body portion of an oscillatory horn, embodying a resonator, a diaphragm and casing rigidly secured together, and means movable relative thereto disposed inside the casing for operatively engaging and vibrating said diaphragm, of an opening in the lower side of said casing, a bracket having one end disposed below said resonator and pivotally connected thereto and another end disposed below said casing and having a projection extending through said opening and operatively in engagement with said means, and a spring engaging said bracket and horn adapted to yieldingly support the horn against oscillation.

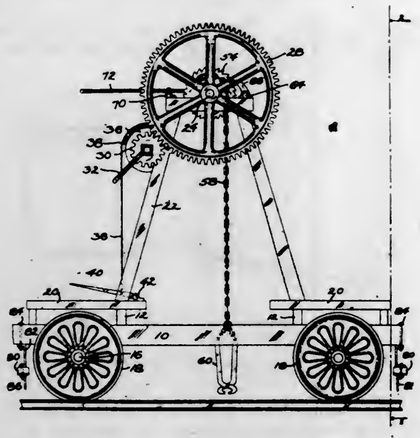
1,351,224. PUSHER-RAM-CHANGING STATION. WILLIAM LAMAR WILLIAMS, Jr., Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 20, 1919. Serial No. 331,959. 24 Claims. (Cl. 214—23.)



1. In combination with a pusher-ram machine embodying, a movable carriage, and a reciprocatory ram supported thereby, said ram having a rack extending longi-

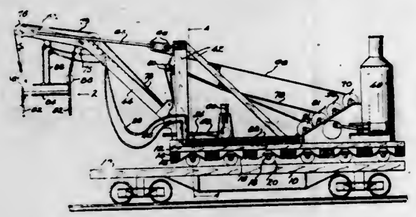
tudinally along its bottom and a head and shoe depending below said rack; a ram receiving and supporting station for receiving the ram head-first from the pusher machine, comprising, a frame, a continuous track supported thereby parallel with the direction of movement of said ram, said track having a supporting level and a lower level at its receiving end connected by an incline with said supporting level, and a plurality of structurally-independent ram-supporting roller trucks movable on said track and each provided with a toothed member for interlocking engagement with the rack of the pusher-ram, said trucks being respectively movable from the lower level of the track to the upper level thereof behind the head of a ram moving from its pusher machine on to the supporting station to support the ram on the supporting level of the track, substantially as specified.

1,351,225. MULTIPLE-HOIST PUSH-CAR. SAMUEL E. BARLOW, Denver, Colo. Filed June 28, 1919. Serial No. 307,396. 6 Claims. (Cl. 212—142.)



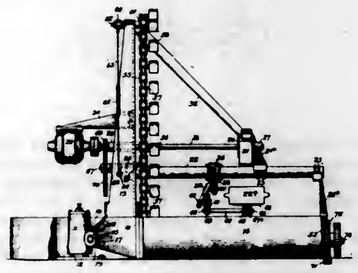
1. In a push car hoist, a frame, wheels thereon, and hoisting means mounted on the frame and adapted to operate between the wheels and within the frame, said hoisting means comprising a plurality of independently controlled elevating devices spaced side by side transversely of the car frame, and spaced means on the under side of the car, adapted to maintain rails held by said spaced devices in spaced relation when elevated.

1,351,226. DERRICK-CAR. SAMUEL E. BARLOW, Denver, Colo. Filed Mar. 1, 1920. Serial No. 362,274. 10 Claims. (Cl. 212—44.)



1. A derrick car, comprising a derrick platform and a series of long heavy rollers disposed transversely under said platform and journaled thereon.

1,351,227. MACHINE FOR MAKING MOLDS FOR FOUNDING. ELMER O. BEARDSLEY and WALTER F. PIPER, Chicago, Ill. Filed Dec. 12, 1919. Serial No. 344,378. 42 Claims. (Cl. 22—36.)



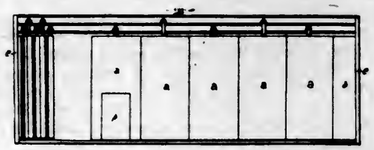
1. In a molding machine, the combination of a movable carriage, a sand projector comprising a stator and a rotor mounted on the carriage, a flask-support mounted on the carriage, means mounted on the carriage for feeding sand to the projector and means to permit relative lateral movement between the projector and the flask-support to fill all portions of the flask.

1,351,228. PUMP-PLUNGER. HANS M. BOE, Minneapolis, Minn. Filed Nov. 22, 1919. Serial No. 339,808. 3 Claims. (Cl. 103—63.)



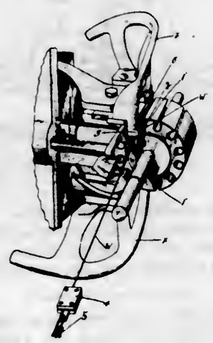
1. A pump plunger comprising a rod, piston cups of flexible material placed back to back and having means for securing them to the end of said rod, metallic disks fitting within said cups and having a series of radial slits in their peripheral edges, a series of spring tongues being formed by said slits, the edges of abutting tongues lapping by each other and said tongues exerting an outward spring-like pressure on the edges of said piston cups.

1,351,229. COLLAPSIBLE DOOR, PARTITION, AND THE LIKE AND OPERATING MECHANISM THEREFOR. ANGELO BOMBELLI, Milan, Italy. Filed Feb. 10, 1917. Serial No. 147,971. 2 Claims. (Cl. 20—20.)



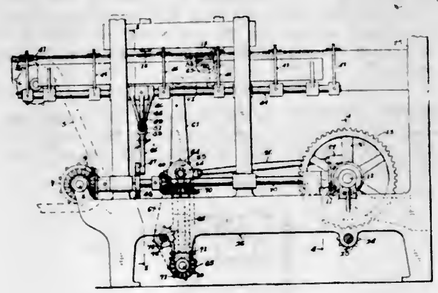
1. The combination, with a frame having two vertical side posts and two horizontal tracks arranged at different levels near the top of said frame, of a folding door comprising a plurality of sections pivoted to one another along their vertical edges, one of said sections having one vertical edge pivoted to said frame, a series of pivoted levers connected with the frame and with the individual door sections in such a manner as to form therewith a system of lazy tongs, guiding means pivotally connected with each door section at its point of attachment to the pivoted levers, said means including rollers engaging said tracks, the rollers engaging one track alternating with the rollers engaging the other track.

1,351,230. ARMATURE AND COIL WINDING MACHINE. PENROSE E. CHAPMAN, St. Louis, Mo. Filed Feb. 23, 1918. Serial No. 218,785. 9 Claims. (Cl. 242—13.)



1. In a winding device, means for producing windings of the character described consisting of the combination of means for winding "wire" with means for "offsetting" said wire as it comes to a "land" on a straight side in the coil being wound.

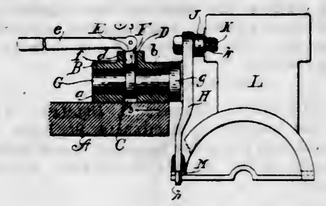
1,351,231. FEEDING MECHANISM FOR BOOK-STITCHING MACHINES. MARTIN CHRISTENSEN, Racine, Wis., assignor to Christensen Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed July 16, 1918. Serial No. 245,201. 9 Claims. (Cl. 1—7.)



3. In a book-stitching machine, the combination, with the stitchers, of a table, means for feeding the books along the table past the stitchers including a reciprocating rod, an oscillatory lever and an eccentric connection between said rod and lever, and means for varying the eccentricity of said connection to thereby vary the length of feed of said feeding means so that the binders of one book will be staggered with respect to those of the next book.

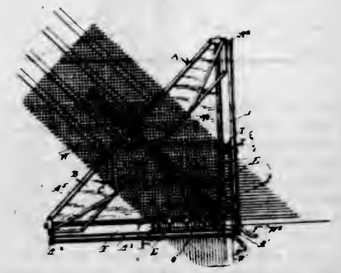
1,351,232. CYLINDER-BLOCK HOLDER. GEORGE J. S. COLLINS, Peoria, Ill. Filed Aug. 22, 1919. Serial No. 319,257. 4 Claims. (Cl. 29—89.)

1. In a cylinder block holder, the combination with a base, of housings erected upon said base and having passages through them, the said housings being arranged with a space between them, a block or table connecting the said housings at the tops thereof, a clamping ring movable in said space, said ring having a stem passing upwardly through the table, means acting upon the table



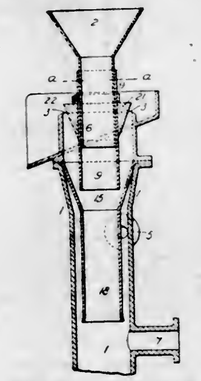
for drawing the ring upwardly, a trunnion pin passing through the ring and the passages of the housings, and a carrier attached to the pin.

1,351,233. WIRE-LOOM. HARRY DENBY, Cleveland, Ohio. Filed Sept. 2, 1919. Serial No. 321,115. 11 Claims. (Cl. 139—39.)



4. In a wire weaving machine, a platform, a slotted guide member thereon, a transverse support elevated above said guide member, a member movable in said guide for engaging and propelling said fabric, and means mounted on said support for operating said fabric propelling member.

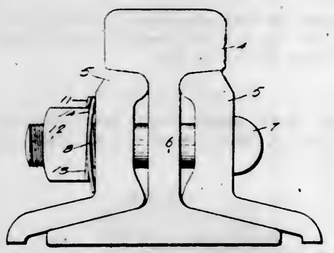
1,351,234. SEPARATOR FOR THE TREATMENT OF COAL, CLAYS, ORES, AND THE LIKE. JOHN MARRIOTT DRAPER, Bridgend, England. Filed Feb. 4, 1919. Serial No. 274,836. 6 Claims. (Cl. 83—82.)



3. A separator comprising an outer tube or receptacle, an inverted conical inner chamber contained within the upper part of said receptacle and from the apex of which a tube extends downward, a central feed fitted with a

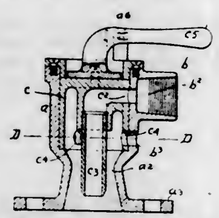
telescopic adjustable delivery tube to regulate the point of delivery in relation to the bottom or apex of the inverted conical chamber, a hydraulic connection for the admission of liquid to the outer tube or receptacle below the top of the inner chamber, and a circular or peripheral overflow ledge above the upper end of said chamber, substantially as specified.

1,351,235. NUT-LOCK. ERNEST E. ELLMANN, FRANK A. KELL, and LEONARD L. ZACHARIAS, St. Louis, Mo.; said Kell and said Zacharias assignors to said Ellmann. Filed Nov. 13, 1919. Serial No. 337,700. 3 Claims. (Cl. 151—41.)



1. A nut lock comprising in combination with a screw threaded bolt, a rectangular concavo-convex washer formed of spring material, an opening formed in the center of the washer for receiving the bolt, a projecting tongue formed on said washer, said tongue extending from the opening to one edge of the washer, and a nut having inclined and flat faces, said inclined and flat faces forming vertical recesses at their conjunction, said vertical faces adapted to hold the nut against rotation in one direction when in contact with the projecting tongue, said flat and inclined faces extending entirely across the face of the nut, said vertical faces being deeper at their outer edges than their inner edges.

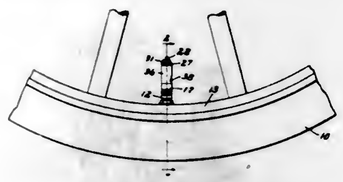
1,351,236. MIXING-VALVE. GEORGE B. EMERSON and CHARLES E. BUYSSE, Detroit, Mich. Filed Sept. 16, 1916. Serial No. 120,441. 1 Claim. (Cl. 48—180.)



In an apparatus of the kind described, a casing having an air passage formed therein, means for delivering air into said passage, said passage being contracted toward the delivery end thereof beyond the portion of said passage to which air is admitted, a pipe c^3 within the larger portion of said air passage and extending into and beyond the most contracted portion thereof at its delivery end, means for supplying gas to the inner portion of said pipe, said casing being adapted to be secured to the intake of the engine so that the suction of the engine shall come directly on the delivery end of said air passage.

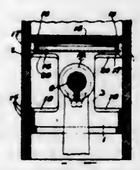
1,351,237. SIGNAL FOR INDICATING SUBNORMAL PRESSURE IN PNEUMATIC TIRES. ARTHUR GARFIELD EWING, Los Angeles, Calif. Filed June 24, 1920. Serial No. 391,366. 5 Claims. (Cl. 116—34.)

1. In a pressure signal for pneumatic tires, the combination of a body portion adapted to be secured to the tire valve casing having a central bore and spring actuated plunger therein and an intermediate transverse wall, a horizontal slot below said transverse wall connecting the



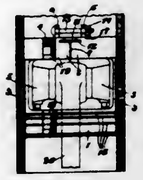
internal bore to atmosphere, an annular channel above said slot, a bevel face on the wall intermediate said slot and said channel and a sleeve member containing a whistle aperture covering said slot and said channel.

1,351,238. PISTON. JOHN FLAMMANG, St. Louis, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed Feb. 25, 1918. Serial No. 219,096. 19 Claims. (Cl. 74—108.)



1. A piston, comprising a split upper ring, a lower ring, connections integrally uniting the upper and lower rings, a piston head detachably supported by the upper ring, and means coöperating with said connections to impart outward pressure to the upper ring to cause it to press against the wall of the cylinder in which the piston is mounted.

1,351,239. PISTON. JOHN FLAMMANG, St. Louis, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed May 23, 1918. Serial No. 236,194. 15 Claims. (Cl. 74—108.)

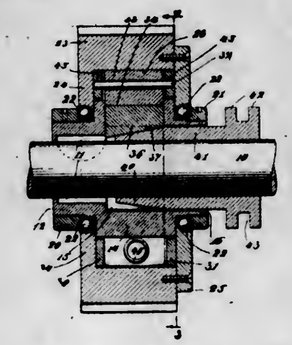


15. A piston, comprising a number of segmental sections arranged to press against the cylinder wall by the resiliency of the material of said sections, a head integral with said sections, and resilient members integral with said sections coöperating with said sections to press the sections outwardly against the wall of the cylinder.

1,351,240. CLUTCH. WILLIAM FRITZ, Philadelphia, Pa. Filed June 14, 1918. Serial No. 240,053. 3 Claims. (Cl. 192—11.)

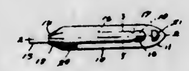
1. In a clutch, a hub adapted to be fixed upon a shaft, said hub being formed with a plurality of radial slots, a member surrounding said hub, shoes disposed in said radial slots and adapted to bear outwardly on the said

member, wedge blocks located under the said shoes in the said slots, means for forcing said wedge blocks outwardly,



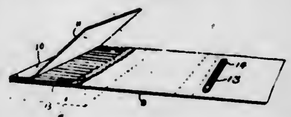
and a common spring operated means for retracting each of said shoes when the first mentioned means is withdrawn.

1,351,241. MATCH-PACKET. ANDREW W. GRAHAM, Buffalo, N. Y. Filed Sept. 23, 1919. Serial No. 325,806. 3 Claims. (Cl. 206—32.)



3. A match receiving packet for individual matches consisting of opposed sides having opposed match stem receiving grooves, opposed match head receiving recesses, and a constricted yieldable neck arranged to engage the match stem, there being a second constricted portion between the grooves and recesses yieldably engageable against the match adjacent the head.

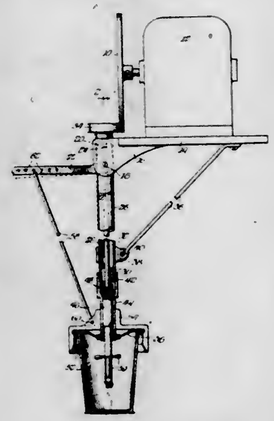
1,351,242. COMBINATION PACKAGE WRAPPER OR LABEL AND MATCH-PACKET. ANDREW W. GRAHAM, Buffalo, N. Y. Filed Sept. 23, 1919. Serial No. 325,807. 2 Claims. (Cl. 206—48.)



2. The combination with a packet for cigarettes and the like, of a member formed in two parts of relatively stiff material formed to conform to a portion of the surface of the packet, said parts being connected by a flexible portion forming a hinge, one of said parts being provided with an opening and being secured to the packet, the remaining part being arranged to cover and uncover a portion of the packet, a striking strip secured beneath the first part and exposed through the opening, and matches having their butts held beneath the first part and their bodies and heads positioned beneath the second part and normally covered thereby.

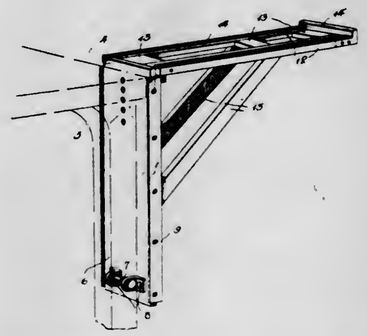
1,351,243. MIXING-MACHINE. JOHN GRAVES, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed Feb. 21, 1919. Serial No. 278,357. 8 Claims. (Cl. 259—1.)

1. In mechanism of the class described, a continuously moving power member, a second power member adapted to be temporarily moved into engagement with said continuously moving power member, a stirring member driven by the second power member, a cover member adapted to close a receptacle detachably applied to the stirring member for the purpose of having it operate in said



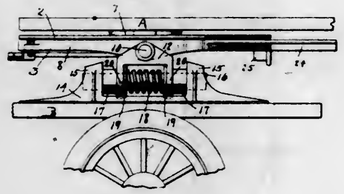
receptacle, and mechanism connecting the cover member to the second power member adapted, when the cover is pressed by such a receptacle containing material to be stirred to throw the second power member into engagement with the first, and otherwise hold it out of such engagement.

1,351,244. WORK-SUPPORTING RACK FOR SEWING-MACHINES. JOSEPH GUTSTEIN, Chicago, Ill., assignor to Hart, Schaffner & Marx, Chicago, Ill., a Corporation of New York. Filed Mar. 11, 1920. Serial No. 364,902. 1 Claim. (Cl. 248—20.)



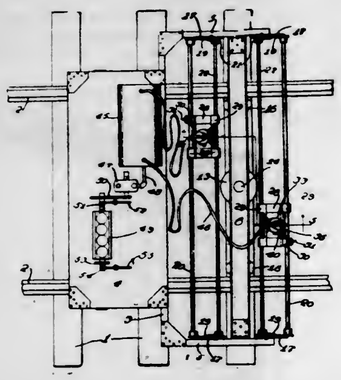
In a clothes supporting rack for sewing machines, a standard provided with recesses at different heights therein, means carried by said standard for removably attaching the same to a sewing machine table, flange members secured to the sides of said standard and having their forward edges turned inwardly and spaced from the face thereof, a vertically adjustable member slidably seated within said flanges, a spring-equipped bolt carried by said last referred to member adapted to take into the recesses in said standard whereby to hold the said adjustable member at any predetermined height, clothes supporting bars carried by said adjustable member, and friction exerting means on said bars to prevent the accidental displacement of clothing therefrom.

1,351,245. FIFTH-WHEEL. ERNEST F. HARTWICK, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 24, 1919. Serial No. 347,206. 7 Claims. (Cl. 280—33.1.)



1. In combination, a circular member having a pair of alined pins, stirrups mounted thereon and comprising a pair of spaced cheeks, a pair of pedestals adapted to be mounted on the body of a tractor and provided with upright brackets, short shafts mounted in the brackets in planes at right angles to the alined pins, a spring on each shaft, said cheeks extending down between the ends of the springs and the pedestals and inclosing said springs, and means mounted on a trailer adapted to engage said circular member.

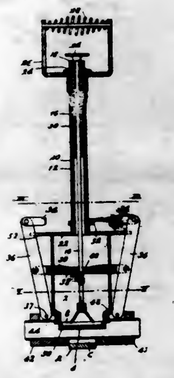
1,351,246. TAMPING-MACHINE. CORNELIUS G. HASTINGS, Glendale, Calif. Filed July 15, 1918. Serial No. 245,022. 6 Claims. (Cl. 104—12.)



1. In a device of the class described, the combination of a frame having track engaging wheels, a transverse guideway on the frame, an upright tamping device movable transversely on the guideway, and means for angularly adjusting the transverse guideway so as to move the lower end of the tamping device longitudinally of the frame.

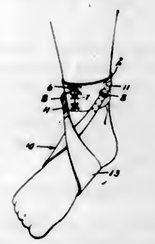
1,351,247. COMBINATION LADLE AND BABBITTING-JIG. WILBUR J. HEMPY, Kansas City, Mo., assignor to Hempy-Cooper Manufacturing Company, a Corporation of Missouri. Filed Dec. 19, 1919. Serial No. 346,009. 13 Claims. (Cl. 22—123.)

1. In a device of the character described, a bottom pouring ladle adapted to rest upon a bearing to be babbitted, means for controlling the outflow of molten metal from said ladle to the bearing, and a member associated with



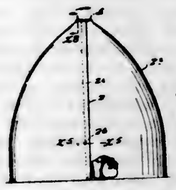
said ladle and arranged to occupy the position of a shaft in the bearing to mold the molten metal to receive such shaft.

1,351,248. ARCH-SUPPORT. WALTER C. HILL, Los Angeles, Calif. Filed Nov. 7, 1919. Serial No. 336,402. 7 Claims. (Cl. 128—166.)



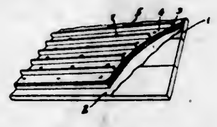
1. An arch support including an ankle band, a stirrup adapted to pass under the instep to support the arch, and means to adjustably secure said stirrup to the ankle band.

1,351,249. TREE-PROTECTING APPARATUS. ORRA VAY HONSTEDT, Upland, Calif. Filed Feb. 13, 1919. Serial No. 276,858. 5 Claims. (Cl. 47—33.)



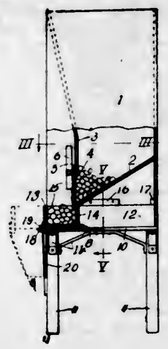
1. In a tree protector, a standard adapted to be adjusted to different heights; means on the upper end of said standard for supporting in either open or closed position a tree covering fabric; an arm pivotally mounted on said standard; adjustable means for retaining said arm at an angle from said standard; and means on the outer end of said arm for retaining the tree covering fabric in a non-covering position.

1,351,250. RUBBER-SET RIFFLE. JOE HORN, Kelvin, Ariz. Filed June 24, 1919. Serial No. 306,438. 4 Claims. (Cl. 83—88.)



1. In a concentrating table or the like, a wooden deck, a layer of tar paper upon the deck, wooden strips upon the layer of tan paper, linoleum strips upon the wooden strips, and sheet metal riffle plates upon the tar paper between the wooden strips and between the linoleum strips, and water proofing cement coating for the bottom and side edges of the wooden and linoleum strips.

1,351,251. MEASURING AND DELIVERING BIN FOR POTATOES, &c. JAMES E. JEWELL, Kansas City, Mo. Filed Jan. 16, 1919. Serial No. 271,541. 6 Claims. (Cl. 211—9.)



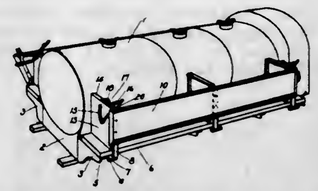
1. In a device of the character described, a hopper having a discharge opening at its lower end, a gate controlling said opening, a receptacle for receiving from the hopper through said opening and movable for discharging what it receives, and a collapsible funnel openable through opening movement of said receptacle, to receive the contents of the latter, and collapsible through closing movement of the receptacle.

1,351,252. VEHICLE-WHEEL. LINWOOD F. JORDAN, Portland, Me. Filed Sept. 30, 1918. Serial No. 256,197. 2 Claims. (Class 301—35.)



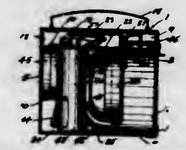
1. A vehicle wheel rim comprising two duplicate members, one member provided with locking tongues and the other member provided with tongue receiving sockets, said tongues and sockets being located on the inside of the rim members, and springs fastened at each end to the socket members and spanning said sockets.

1,351,253. CAN-RACK. ANDREW A. KRAMER, Kansas City, Mo. Filed May 3, 1920. Serial No. 378,365. 3 Claims. (Cl. 280—5.)



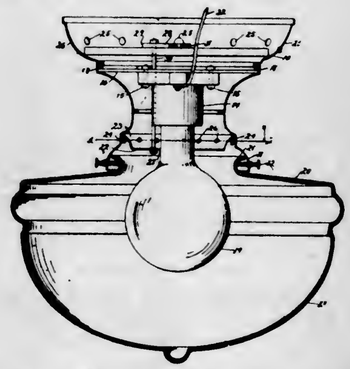
2. In a vehicle tank construction, a tank, bolsters supporting said tank, can brackets carried by the bolsters, a floor board carried by the brackets, upstanding walls supported by the floor board, each wall comprising a plate having right angularly projecting flanges and arranged crosswise of the board, a side member extending substantially the length of the floor board and hingedly connected thereto, means connecting the side member to the upstanding walls, said means permitting limited swinging movement of the side member, and locking members carried by the upstanding walls and removably engaging the side member.

1,351,254. AUDIPHONE. CHARLES LARRICK, Los Angeles, Calif. Filed Mar. 26, 1919. Serial No. 285,377. 6 Claims. (Cl. 179—107.)



4. In an audiphone, a box, a cylindrical lining mounted in the front end of the box, a rectangular shell slid down into the box behind the lining, an amplifier mounted in the rectangular shell, and a transmitter mounted in the amplifier.

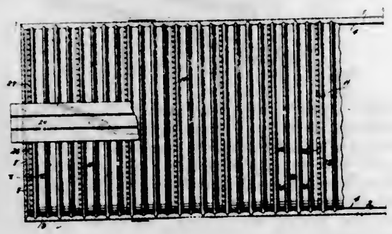
1,351,255. LIGHTING-FIXTURE. ABRAHAM LAZERSON, Chicago, Ill., assignor to Solar Illuminating Co., a Corporation of Illinois. Filed Jan. 26, 1920. Serial No. 353,964. 3 Claims. (Cl. 240—78.)



1. A lighting fixture comprising, in combination, a canopy having a collar adapted to engage with a globe

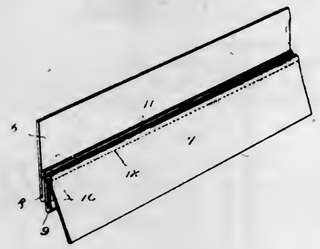
and carrying means to secure a globe in place, a plate having a reflecting surface on its lower side, said plate of the same shape as and slightly less in diameter than said collar, said plate having an opening for passage of source of light parts, an outwardly flaring rim on said plate adapted to contact with the interior of the canopy, said rim having ventilating openings.

1,351,256. CAR-ROOF. BENJAMIN FURMAN LIVELY, Lenoir City, Tenn., assignor of one-half to Raymond C. Dudley, Chicago, Ill. Filed Dec. 14, 1915. Serial No. 66,727. 9 Claims. (Cl. 108—5.)



1. In a metal car roof, in combination: roof sheets having upstanding transverse and V-shaped marginal corrugations, and having intermediate corrugations parallel with and of greater depth than said marginal corrugations, the marginal corrugations of contiguous sheets being lapped and double at their apices; whereby the middles of the sheets are stiffened correspondingly with their margins.

1,351,257. TROUSERS-WAISTBAND. JACOB MARCUS and JOHN F. BERGEN, Brooklyn, N. Y. Filed Feb. 28, 1920. Serial No. 362,170. 1 Claim. (Cl. 2—142.)



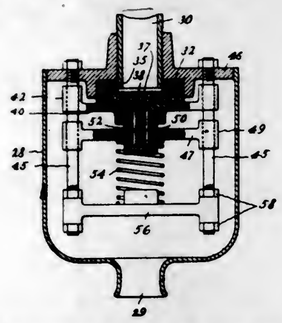
As a new article of commerce, a unitary waistband structure for trousers comprising a stiffener element and a liner element, said stiffener element being folded to provide a multiply formation along one of its longitudinal edges, and said liner element being folded along one of its longitudinal edges to provide a skirt in overlying relation to said folded edge of the stiffener, said stiffener and liner elements being jointed together by a line of stitches extending through the plies of their folded portions and the said stitches being adapted to be concealed by a ply of the liner element when in applied position.

1,351,258. DRIP-PREVENTER AND THE LIKE. GORDON SPENCER MARSTON, Ravenscourt Park, England. Filed May 4, 1920. Serial No. 378,900. 4 Claims. (Cl. 53—3.)

1. Means for preventing liquids from running down the outside of the pouring spout of a liquid-containing vessel comprising a member to be carried by the spout and a second member loosely attached to the first mentioned member so as to be free to move and maintain a substantially vertical attitude, whatever the position of the vessel.

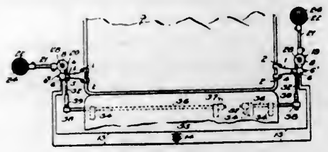


1,351,259. VALVE. LOUIS MASCHEK and CAMILLUS B. HIGGINS, Kansas City, Mo. Filed Oct. 28, 1918. Serial No. 260,023. 7 Claims. (Cl. 137—53.)



1. A valve consisting of a casing having inlet and outlet ports, a valve plug to close one of said ports, a yieldably supported member to normally hold said valve plug in closed position, and resilient means interposed between said member and the valve plug to hold the latter to its seat in case said member should be jarred away from said valve plug.

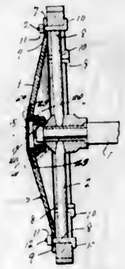
1,351,260. SIGNAL FOR MOTOR-VEHICLES. JOSEPH B. MERWIN, Lincoln, Nebr. Filed Sept. 2, 1916. Serial No. 118,263. 1 Claim. (Cl. 116—54.)



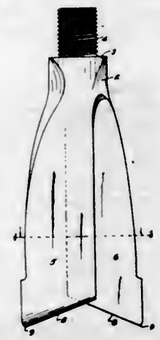
An indicating device for vehicles comprising a supporting bracket extending laterally from the vehicle, a signal, a signal arm adapted to move laterally in the arc of a circle from a normally vertical to a horizontal position having an enlarged joint member pivoted upon said bracket, a vertically movable signal operating rod eccentrically pivoted upon said joint member, a horizontally arranged actuating rock shaft, a crank pivotally connecting said shaft and operating rod, a manipulating lever fixed upon said rock shaft, and means for automatically illuminating said signal when in a horizontal position.

1,351,261. SHIELD FOR WHEELS. EDWIN E. MILLER, Tyrone, Pa. Filed Jan. 3, 1920. Serial No. 349,169. 1 Claim. (Cl. 301—37.)

In a device as set forth, a vehicle wheel, a shield plate conically dished and arranged adjacent one face of the wheel and having its marginal portion detachably secured to the felly of the wheel, the central portion of the conically dished shield plate having an opening axially alined with the hub of the wheel, the outer face of the shield plate in surrounding relation to the opening being rabbeted, a cap plate countersunk in the rabbet of the shield plate and provided with a cylindrical flange telescoping through the opening, and over the hub, and spring fasteners carried by the cylindrical flange and engaging the marginal wall of the opening of the conically dished shield to retain the cap in position.

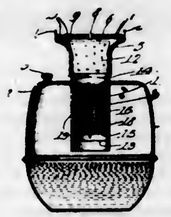


1,351,262. DRILLING-BIT. GEORGE NYMANNING, Los Angeles, Calif. Filed Jan. 9, 1920. Serial No. 350,464. 5 Claims. (Cl. 255—61.)



1. A fish-tail, rotary cutting bit comprising a butt or head portion with downwardly extending laterally spaced rigid cutting blades, the blades relatively offset to each other and a threaded shank extending upwardly from said butt.

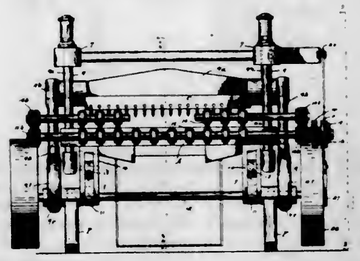
1,351,263. FUMIGATING-CONTAINER. WENZEL J. SCHEFF, Manitowoc, Wis. Filed June 3, 1919. Serial No. 301,536. 1 Claim. (Cl. 299—20.)



A fumigating container having a body portion, means for admitting a liquid into the container, an extended neck

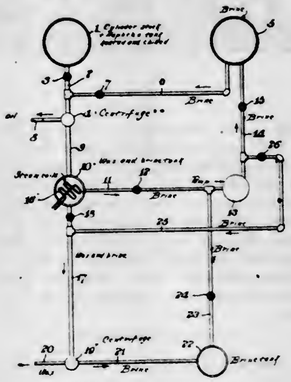
member projecting a considerable distance into the body of the container, a screen mounted in the lower portion of said neck member, spaced wire rings, one of the rings having an integrally formed wire extending longitudinally of the neck of the container, the other ring having a looped portion slidably engaging said longitudinally extending wire, a spring operatively connected to the two rings and arranged to draw one of the rings toward the other, and a relatively large amount of absorbent material positioned between the two rings.

1,351,264. MACHINE FOR MAKING PLASTER-BOARD. JOHN SCHUMACHER, Los Angeles, Calif. Filed Jan. 23, 1919. Serial No. 272,765. 10 Claims. (Cl. 134—89.)



1. A machine for perforating plaster board and like products of that type which comprise a plastic filler interposed between cover sheets, including a die member, a punch member mounted for coöperation with the die member to form openings through the plaster board and leave one of the cover sheets in a torn condition at the openings, means for advancing the plaster board between the die member and punch member, and means for subsequently restoring the torn portions of the said cover sheet to substantially their original positions.

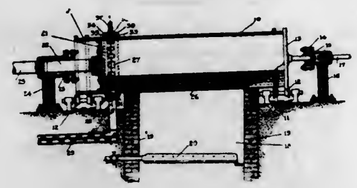
1,351,265. PROCESS FOR SEPARATING SUBSTANCES FROM LIQUIDS. PHILIP T. SHARPLES, St. Davids, Pa. Filed June 28, 1919. Serial No. 307,472. 10 Claims. (Cl. 196—24.)



1. In the separation from a liquid of a substance soluble therein at normal temperatures and insoluble at lower temperatures, the process which consists in chilling said liquid to a temperature adapted for precipitating said substance and centrifuging the liquid containing said substance together with a liquid heavier than and immiscible with said substance, thereby separating said substance

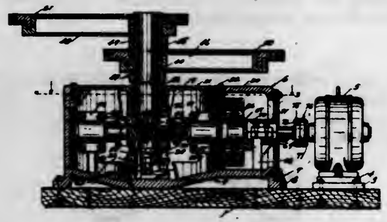
from thhe containing liquid, floating said substance on said heavier liquid and separately discharging said substance and the liquid from which it is separated.

1,351,266. APPARATUS FOR DISTILLING MINERAL OIL. ERNEST VICTOR STONE, Los Angeles, Calif. Filed Nov. 14, 1918. Serial No. 262,519. 3 Claims. (Cl. 196—12.)



3. An apparatus for distilling mineral oils, comprising a retort rotatably mounted, a pipe for supplying oil thereto, a second pipe for leading gases and vapors therefrom, means for heating the retort, iron rods extending substantially throughout the length of the retort loosely mounted in the retort so that the rotation of the retort and the tumbling of the iron rods will pulverize the carbon, and means for discharging the carbon from the retort.

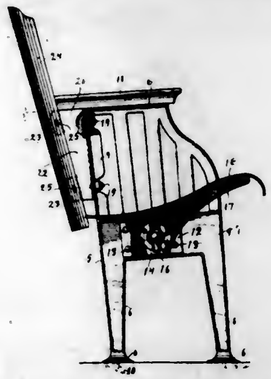
1,351,267. PUMPING POWER. WILLIAM H. TEEL, Los Angeles, Calif. Filed Aug. 26, 1919. Serial No. 319,997. 1 Claim. (Cl. 74—36.)



A pumping power comprising a housing having side walls and a top, a power shaft mounted through the side walls of the housing horizontally and adapted to be connected with an electric motor, a main operating shaft journaled in the base of the housing and extending upwardly through a bearing in the top thereof, a worm gear mounted upon the main shaft within the housing, a worm and shaft adapted to operate upon the gear, means for connecting the worm shaft with the power shaft, and eccentrics mounted upon the operating shaft above the top of the housing.

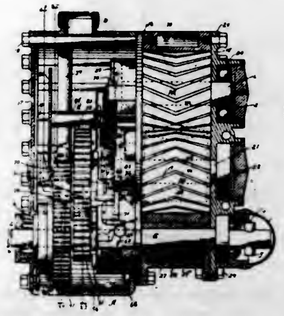
1,351,268. THEATER-CHAIR CONSTRUCTION. RAY TRAVERS, New London, Wis., assignor to The Wisconsin Chair Company, Fort Washington, Wis., a Corporation of Wisconsin. Filed July 13, 1916. Serial No. 108,976. 4 Claims. (Cl. 155—85.)

1. A standard for a theater chair, comprising a cast metal standard member having leg portions, a medial portion and a back portion, a bracket formed of stamped sheet metal connected at its opposite end portions to the medial portion of the standard member and projecting medially outwardly therefrom, and a back bracket formed of stamp sheet metal connected to the rear edge of the



back portion and projecting rearwardly therefrom and having back attaching portions which extend at an angle from said rearward portion and away from each other.

1,351,269. COMPRESSOR AND MOTOR-STARTER. MORRIS C. WHITE, Los Angeles, Calif., assignor to M. C. White Company, Los Angeles, Calif., a Corporation of California. Original application filed Nov. 28, 1914, Serial No. 874,384. Divided and this application filed June 23, 1916. Serial No. 105,418. 5 Claims. Cl. 230—37.)

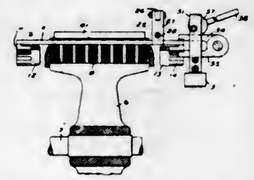


1. Apparatus of the character disclosed, including a drive shaft, a fluid compressor having a shaft, primary coupling means between the driving shaft and compressor shaft, a clutch controlling the said coupling means, a secondary coupling means connecting the two shafts and arranged to rotate them in a reverse relation and maintain the same direction of rotation of the drive shaft when it is actuated by the compressor, and an automatic clutch in the secondary coupling means constructed to become inoperative when the drive shaft again becomes the source of power.

1,351,270. SQUIRREL-CAGE WINDING CONSTRUCTION. NATHAN WILKINSON, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 27, 1914. Serial No. 859,121. 10 Claims. (Cl. 172—120.)

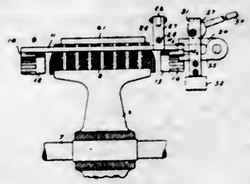
1. As an article of manufacture, a cage-like device including a plurality of metallic bars of the type of copper and a pair of metallic rings of the type of copper directly united to said bars by welds extending throughout the full cross section of the united parts.

2. In a squirrel-cage rotor, a core of magnetic material having slots, conductor bars disposed in said slots, and



end rings, one at each side of said core, directly united to said bars by welds extending throughout the full cross section of the united arts.

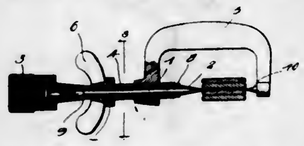
1,351,271. METHOD OF AND APPARATUS FOR ELECTRIC WELDING. NATHAN WILKINSON, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Original application filed Aug. 27, 1914, Serial No. 859,121. Divided and this application filed June 28, 1919, Serial No. 307,803. Renewed Mar. 1, 1920. Serial No. 363,097. 8 Claims. (Cl. 219—10.)



1. The method of building a cage-like device comprising bars of conducting material and end connecting members disposed at the ends of said bars which consists in disposing a core of magnetic material within the inner periphery of said bars, completing the magnetic circuit about a given bar to be welded by magnetic material coacting with said core, and passing an alternating current through the point of contact of the bar to be welded and its associated end connecting member.

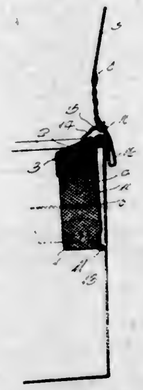
4. In apparatus for electrically welding conductive bars inductively associated with a core of magnetic material to an end ring, a source of alternating welding current, and means to coöperate with the magnetic material of the core for establishing a magnetic field about the bar to be welded of intensity substantially choking off any current in said bar other than the useful welding current.

1,351,272. SPRING-LEAF SPREADER AND LUBRICATOR. LOUIS E. WOOD, Farrell, Pa. Filed Mar. 8, 1920. Serial No. 364,334. 2 Claims. (Cl. 81—3.)



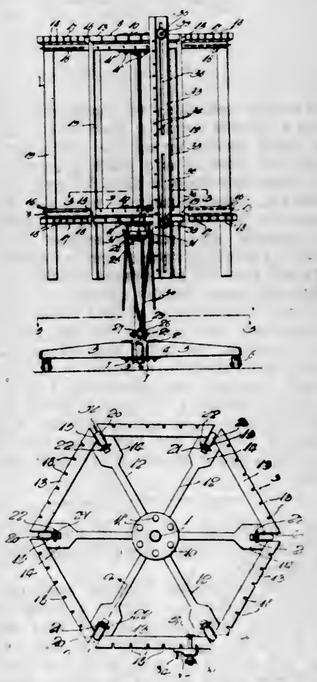
1. A spring leaf spreader and lubricator comprising a tubular lubricant conducting member having a leaf spreading wedge at one end and lubricant feeding means at its other end, a screw for projecting said member to spread the leaves of the spring, the operating means of said screw being located adjacent to said lubricant feeding means, and a spring-straddling yoke through which the screw is threaded, said screw being tubular, receiving said lubricant conducting member therein, and being rotatable about said member.

1,351,273. SOAP-CONTAINER. LOUIS E. WOOD, Farrell, Pa. Filed May 17, 1920. Serial No. 382,146. 4 Claims. (Cl. 45—28.)



1. A soap holder comprising a receptacle of foraminate material open at its upper end, a carrier pivotally connected with the rear wall of the receptacle for swinging movement from a position extending above the receptacle to a position in front of the receptacle, a cover carried by the carrier for closing the upper portion of the receptacle when the carrier is in a raised position, and a handle connected with the receptacle.

1,351,274. CURTAIN-STRETCHER. LOUIS E. WOOD, Farrell, Pa. Filed May 24, 1920. Serial No. 383,840. 9 Claims. (Cl. 45—24.)



1. A curtain stretcher comprising a rotatably mounted standard, a drum having an upper curtain engaging head

fitting upon the standard and a lower curtain engaging head slidably fitting upon the standard, vertical bars loosely connected with the upper head and slidably engaging the lower head, one bar being provided with curtain engaging means, a vertically extending curtain engaging bar releasably and slidably connected with the heads, and means for drawing the lower head downwardly to stretch a curtain connected with the heads and bars.

9. The structure of claim 3 having each drum head provided with a hub, spokes extending from the hub and having seats cut in their outer ends to receive vertical bars, and side bars connected with the spokes upon opposite sides of the seats and provided with curtain engaging elements.

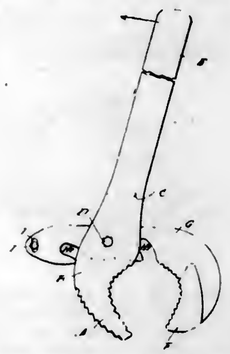
1,351,275. SCREEN. WILLIAM WOROPEL, Lansing, Mich. Filed Dec. 29, 1919. Serial No. 348,153. 1 Claim. (Cl. 156—39.)



A roll screen comprising in combination a shaft supported on a window frame, a drum rotatable about said shaft, a coiled spring having one end attached to said drum and the other to said shaft, a screen adapted to be rolled upon said drum, a hood for said drum and the screen thereon, hingedly mounted upon said frame, vertical runners in the sides of said frames having serrated interior surfaces, said runners adapted to guide said screen in its vertical movement, and releasable means for retaining said screen in any desired position in said frame comprising horizontal tubular members at the bottom of said screen, the inner ends of said members having enlarged chambers, rods passing through said tubes and adjacent chambers, the outer ends thereof adapted to engage said serrated surfaces, a stop on each of said rods within said chambers and coiled springs about said rods within said chambers, a bell crank having one of said rods attached thereto, a link having the other of said rods attached thereto, said link being also attached to said bell crank, and a handle on the latter for actuating said rods.

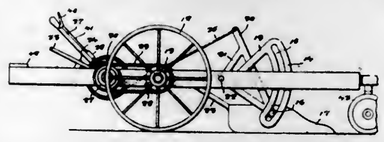
1,351,276. WRENCH. ALBERT H. BENWELL, St. Louis, Mo. Filed Mar. 1, 1920. Serial No. 362,445. 2 Claims. (Class 81—109.)

2. A wrench comprising a slotted head provided with a pin across the slot, and having a handle and a jaw curved laterally with regard to said head and serrated on both sides, and an auxiliary jaw and shank curved laterally with regard to each other and provided with notches on said shank adapted to engage selectively with said pin,—said shank being insertible into the slotted head from either side and the auxiliary jaw being thereby generally parallel to the main jaw for gripping plate or small pipe, or curved opposite to the same when reversed



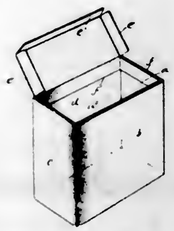
for gripping relatively larger pipe, and variably adjustable in both positions substantially as described.

1,351,277. ROAD-SCRAPER AND LAND-LEVELER. ALEX PETER KARL BERG, Turlock, Calif. Filed Nov. 28, 1919. Serial No. 341,205. 4 Claims. (Cl. 37—33.)



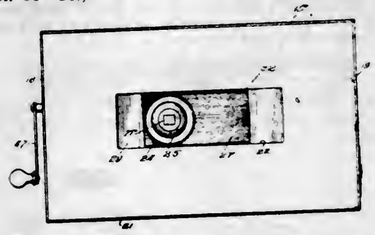
1. A machine of the class described comprising a wheeled frame, spaced guides carried by the sides of the frame, levers pivoted between their ends on the sides of the frame, a shovel or scraper pivoted between the lower end of said levers, the pivots projecting beyond the levers, and movable within said guides, means actuated from the tractor wheel of the frame for operating said levers to move said shovels toward and away from the ground, and means for holding the shovel elevated.

1,351,278. BOX. AARON M. BILSTEIN, Riderwood, Md. Filed July 27, 1917. Serial No. 188,183. 6 Claims. (Cl. 229—38.)



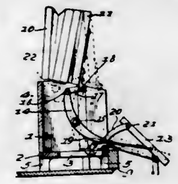
1. The herein described box comprising a body closed at the bottom and provided at its top with a plurality of interior pockets open only at the top formed of thin material folded on itself and one of the folded leaves or sections connected at its edge to the body of the box at the top, and a cover having a plurality of marginal flaps corresponding to and adapted to be received in said pockets when the box is closed, whereby a complete closure is provided and the escape of powder-like contents of the box prevented.

1,351,279. CAMERA. BRUCE BORLAND, Chicago, Ill. Filed Mar. 6, 1918. Serial No. 220,706. 10 Claims. (Cl. 88—16.)



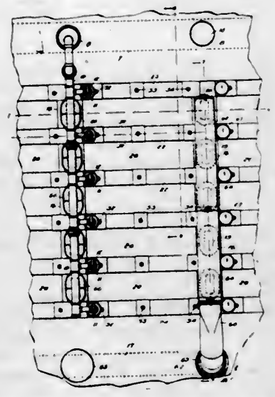
1. The combination with a camera of the type in which the objective is moved relatively to the film, and having driving mechanism for actuating the objective, of means separate from the driving mechanism for positively locking the objective during the periods of exposure whereby the objective is held rigidly in proper position.

1,351,280. DETACHABLE BOTTOM-ACTION UNIT FOR AUTOMATIC MUSICAL INSTRUMENTS. GEORGE P. BRAND, New York, N. Y. Filed Oct. 29, 1917. Serial No. 199,139. 12 Claims. (Cl. 84—169.)



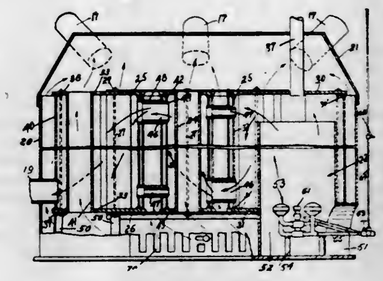
1. A removable unit adapted to be placed in a player piano, comprising a pedal receptacle, pedals adapted to be folded in the same, and exhaust mechanism supported by said receptacle and connected to said pedals, said pedals foldable in a plane below that of said exhaust mechanism and all removable as a unit from said player.

1,351,281. FURNACE CONSTRUCTION. BARTLEY E. BROADWELL, Niagara Falls, N. Y. Filed Mar. 19, 1919. Serial No. 283,470. 10 Claims. (Cl. 25—134.)



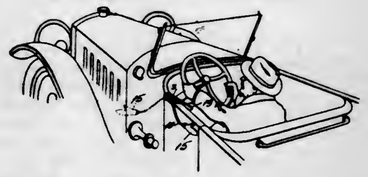
1. In a ring furnace, the combination with a plurality of interconnected gas flues arranged longitudinally of said furnace, of pits arranged parallel to said flues and in proximity thereto and having a passageway extending beneath same throughout their length and connecting with one of said flues, and a vertical baffle in one or more of the flues.

1,351,282. FURNACE. BENJAMIN F. CALDWELL, Pomona, Calif. Filed Apr. 21, 1919. Serial No. 291,746. 1 Claim. (Cl. 126—116.)



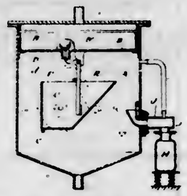
A heating furnace comprising an outer casing, a series of heating chambers mounted in bodily spaced relation to each other and to and within the said casing, each of the sections provided with respective top and bottom forming plates and walls arranged on the respective top and bottom plates to form a unitary section, telescopic flues between the adjacent heating sections at the opposite ends thereof, said flues at the opposite ends of the heating sections being a large and a small flue, respectively, with one pair of flues between the adjacent sections reversely arranged relative to the pairs of large and small flues between the next adjacent sections.

1,351,283. AUTOMOBILE-SIGNAL. SAM D. CARNES, Fort Worth, Tex. Filed Aug. 22, 1919. Serial No. 319,100. 3 Claims. (Cl. 116—52.)



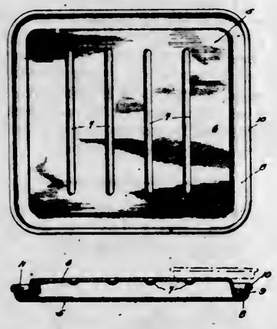
1. In an automobile direction signal, a plate to be fastened to the inner side of the door of an automobile or the like, and carrying an upper horizontal portion, a second plate arranged upon the upper horizontal portion and provided with elongated slots extending transversely of the second palte, clamping elements carried by the upper horizontal portion and operating within the elongated slots, a housing secured upon the second plate and extending transversely thereof, a plunger slidable within the housing and provided at its outer end with a gear rack, a signal arm pivotally connected with the second plate and provided near its pivot with a gear engaging the gear rack, a pedal arranged near and inwardly of the first named plate, means pivotally connecting the pedal and first named plate and spaced from the forward end of the pedal, means connecting the forward end of the pedal and the inner end of the plunger, and a spring to swing the rear end of the pedal outwardly.

1,351,284. AUTOMATIC MILK-MEASURING APPLIANCE. JOHN CROCKER CAWSEY, Hawera, New Zealand. Filed June 1, 1920. Serial No. 385,735. 2 Claims. (Cl. 249—35.)



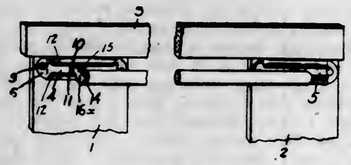
1. In combination with an automatic milk measuring apparatus including a chamber and a measuring tipping vessel therein, means for separating a small proportion of the milk from the main quantity and separately delivering it consisting in a cup arranged to catch a quantity of milk as the measuring vessel tips to discharge its contents, a discharge leading from such cup, a receiving flask into which such discharge leads and a pipe connection between the said flask and the chamber, substantially as specified.

1,351,285. FOOD-TRAY. MATTIE G. CHESS, Oakland, Calif. Filed Sept. 19, 1919. Serial No. 324,858. 1 Claim. (Cl. 65—53.)



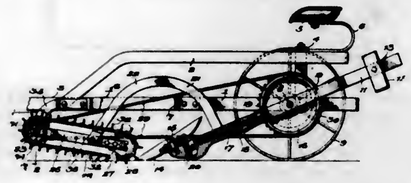
A pressed metal article of manufacture comprising a sheet metal blank formed into a tray having a raised food platform provided with depressed reinforcing corrugations constituting essence receiving means, the edges of the blank being turned upwardly to provide an insecticide trough below the level of the food platform whereby insects are prevented from crawling from the outer side of the trough to dishes mounted upon the platform and projecting beyond the same.

1,351,286. BRACKET-SUPPORT FOR ROLLER-BLINDS. WILLIAM CLAYTON, Toronto, Ontario, Canada. Filed Apr. 2, 1920. Serial No. 370,800. 1 Claim. (Cl. 156—24.)



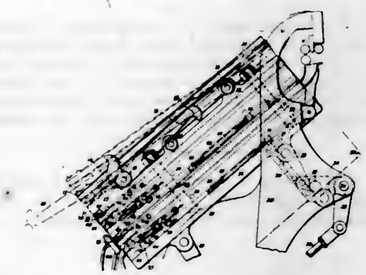
A bracket support for roller blinds comprising a plate member adapted to be permanently secured in position, and provided with parallel guides, and an inverted V-shaped spring bracket, the arms of the V being provided with right-angular outward extensions adapted to bear at one end against the base of the bracket and at the opposite end against the opposing portions of each guide when the V-shaped spring bracket is expanded.

1,351,287. BEET-TOPPING MACHINE. JOHN DEVEY, Lehi, Utah. Filed Dec. 18, 1918. Serial No. 267,312. 5 Claims. (Cl. 55—107.)



1. In a beet topping machine, the combination with the main frame, of a vertically movable cutting disk, an elongated belt frame pivotally mounted adjacent one of its ends on the main frame with its opposite end in proximity to the surface of the ground, a traveling belt carried by the belt frame, and connections between the cutting disk and belt frame, whereby vertical movement of the belt frame will impart a vertical movement to the cutting disk.

1,351,288. TYPOGRAPHICAL COMPOSING-MACHINE. CLARENCE LEON GEORGE and HENRY HART, London, England, assignors to Linotype and Machinery Limited, London, England, a Limited Liability Company of Great Britain. Filed Apr. 30, 1919. Serial No. 293,818. 47 Claims. (Cl. 199—46.)

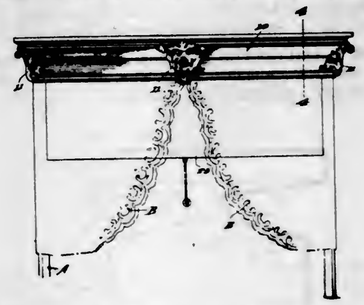


47. In a typographical composing machine, the combination of a plurality of superposed magazines, a shift frame therefor movable to bring any selected magazine into operative position, and a sliding frame carrying one of the magazines and arranged to be slid forwardly and backwardly out of and into the shift frame to facilitate the removal and replacement of the magazine thereon.

1,351,289. CURTAIN AND SHADE SUPPORT. IVAN GOSAR, Bethlehem, Pa. Filed Aug. 28, 1919. Serial No. 320,428. 6 Claims. (Cl. 156—13.)

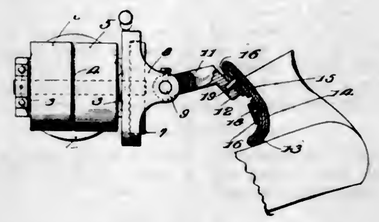
6. In a combined curtain and shade support, the combination of an ornamental frame including a face portion and end portions, said ornamental frame adapted to be mounted about a window casing, attaching brackets carried by the ornamental frame, a pair of substantially L-shaped rods pivotally connected to the ends of the ornamental frame, said ornamental frame provided with recesses in its inner surface adapted to receive portions of said rod therein for clamping curtains in the recesses and

connecting them to the ornamental frame at the inner surfaces thereof, the meeting ends of said L-shaped rods being outturned and concavely curved to provide a hook for receiving the ball of an operator's fingers to permit



the swinging the rods outwardly to disconnect a curtain from the ornamental frame, and buttons carried by the inner surface of the ornamental frame for engagement with said rods to hold them against accidental pivotal movement.

1,351,290. HEEL-SCOURING MACHINE. RUPERT L. GREENLEAF, Cambridge, Mass. Filed June 17, 1918. Serial No. 240,405. 2 Claims. (Cl. 51—17.)



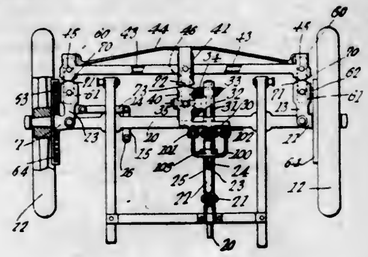
1. Means for securing the breasts of shoe heels comprising supporting arms carrying a form plate of curved cross section and of approximately uniform thickness throughout its extent, a yieldable cover over the front face of the form plate, an abrading strip fitting over the cover with its longitudinal edges against the back of the form plate, clamping plates fitted against the abrading strip at the back of the form plate and extending longitudinally of the form plate, means for securing one clamping plate and the adjacent side edges of the cover and of the abrading strip to the form plate, and means for securing the other clamping plate and the adjacent side edge of the cover and of the abrading strip to the form plate and to the ends of the supportihg arms, the first-mentioned clamping plate and the parts held thereby being entirely free of the supporting arms.

1,351,291. RUBBER SOLE. FRANK HORNQUIST, Mount Jewett, Pa. Filed Feb. 14, 1920. Serial No. 358,741. 3 Claims. (Cl. 36—32.)



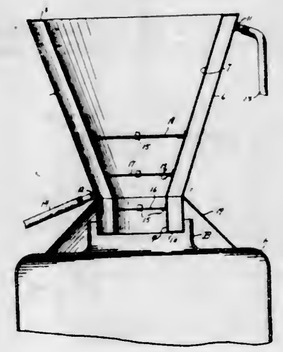
1. A rubber shoe sole having a central longitudinal ridge on its upper side terminating a short distance in rear of its front end, said upper side being concave from said ridge to the side edges of the sole and also from the front end of the ridge to the front end of the sole; the lower side of said sole having a central longitudinal channel terminating a short distance from its front end, said lower side being convex from said channel to the side edges of the sole and between the front end of the sole and the corresponding end of the channel; said sole having nail guides at substantially the crest of its convex portion, whereby the attaching nails will flatten the sole and retain its center and edges in tight contact with the shoe to which it is attached.

1,351,292. VEHICLE-DRIVE. MARTIN KIMBLE, Highland Park, Ill. Filed Mar. 8, 1920. Serial No. 364,165. 3 Claims. (Cl. 74—103.)



1. In a vehicle of the class described, a front axle; stub axles pivoted thereto; ground wheels journaled on the stub axles; a yoke; a bracket; links connecting the yoke with the stub axles and with the bracket; means for moving one stub axle to effect a steering of the vehicle; interengaging elements on the yoke and on the stub axles for imparting swinging movement from said stub axle to the other stub axle; interengaging eleinents on the yoke and on the bracket for imparting swinging movement to the bracket; a drive shaft; a second shaft journaled in the bracket; an operative connection between the second shaft and the ground wheels; a telescopic shaft; a first universal joint connecting the telescopic shaft with the drive shaft; a second universal joint connecting the telescopic shaft with the second shaft; and means coöperating with the telescopic shaft and with the bracket for preventing lateral movement at the second universal joint.

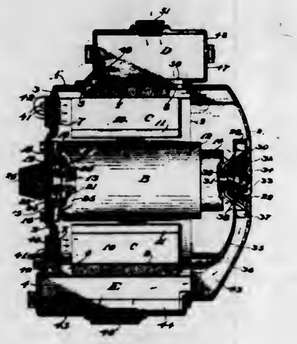
1,351,293. STRAINER. HENRY EARNEST LEECH, Live Oak, Fla. Filed Nov. 19, 1919. Serial No. 339,007. 1 Claim. (Cl. 210—155.)



The combination with a kettle having an enlarged neck, of a strainer comprising a single length of material

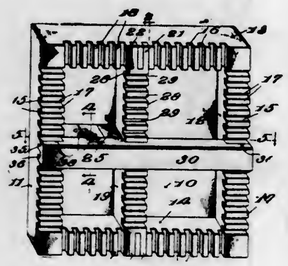
tapered from the intermediate portion to its ends, one end portion of said length being extended back upon said length in spaced parallel relation to the other end portion to provide a heat chamber, said length being formed into a frustum-conical casing, the ends of said length being connected to each other, heat inlet and outlet ports for said chamber, strainers disposed within the inner casing, an inverted frustum-conical stand connected to the outer surface of the heating chamber adjacent the lower end of the strainer, said stand holding the lower end of the strainer within the neck of the kettle in annular spaced relation thereto and coöperating with the kettle to prevent the escape of heat.

1,351,294. ELECTRIC MOTOR. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 7, 1916. Serial No. 89,650. 8 Claims. (Cl. 172—36.)



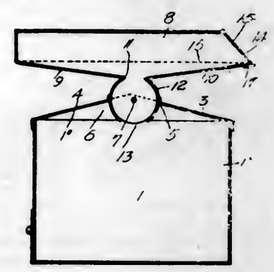
6. In an electric motor having a coil supporting and armature inclosing field frame, an armature therein mounted upon an armature shaft supported by flame proof bearings, a flame tight starting and controlling box and a flame tight resistance box secured by gas tight joints to the side walls of the motor casing, passages formed in the walls of the casing connecting the starting and controlling box and the resistance box with the interior of the motor casing, flame proof ventilators in the walls of the starting and controlling box and of the resistance box, and means actuated by the rotation of the armature to cause a positive flow of air through the ventilators and passages of the casing as and for the purpose set forth.

1,351,295. GALLEY. ALFRED J. LORIOT, Newark, N. J. Filed Jan. 2, 1919. Serial No. 269,253. 5 Claims. (Cl. 22—136.)



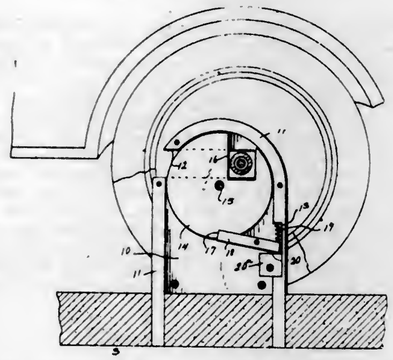
1. A frame whose sides and ends have transverse channels, a bar therein parallel with the sides and having longitudinal fingers adjustably engaging the channels in the ends, this bar also having transverse channels, and a second bar extending across the frame and the first bar and having longitudinal ribs adjustably engaging their channels.

1,351,296. ASH-SIFTER. ISIDOR LUNENFELD, Brantford, Ontario, Canada. Filed Mar. 20, 1920. Serial No. 367,437. 1 Claim. (Cl. 83—60.)



A container having a convex top portion provided at the apex with a slot, the side walls of said slot being formed to project above the top and to present opposed concave bearing surfaces, a sifter having the body portion thereof formed to present a slotted horizontally disposed tubular extension, said extension being disposed for oscillating movement in said slot with the outer surface thereof in sliding contact with the opposed bearing surfaces at either side of the slot, an pivots supporting the ends of said extension in said slot, said pivots being positioned midway between the sides of the slot and in a plane with the opposed concaved bearing surfaces.

1,351,297. AUTOMOBILE-LOCK. EDGAR MCCRACKEN, Albia, Iowa. Filed Aug. 9, 1919. Serial No. 316,362. 4 Claims. (Cl. 70—90.)

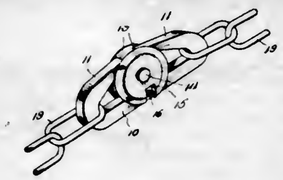


1. An automobile lock comprising a vertical casing having a horizontally extending slot, a rotatable disk disposed within the casing and having a straight tangential slot adapted in one position of the disk to register with the slot in the casing and in the other position to extend transversely to the casing slot, and means within the casing for locking the disk in the last named position.

1,351,298. COUPLING-LINK. DAVID MADILL, Salt Lake City, Utah. Filed Apr. 22, 1919. Serial No. 291,833. 1 Claim. (Cl. 24—232.)

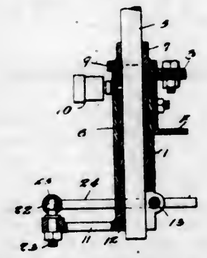
A coupling link for tire chains including a body provided with bills having their ends arranged in opposed

spaced relation thereby forming a gap, said body being provided intermediate its ends with an upstanding lug terminating below said gap, a pivot pin extending through said lug, disks rotatably carried by said pivot pin on opposite sides of said body and having link receiving notches adapted for registration with said gap, the peripheral edges



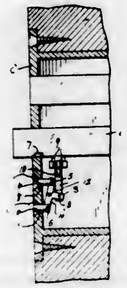
of said disks being beveled, said body being provided immediately below said lug with a transverse opening, and a detachable pin slidably extending through said opening and having its end portions arranged within said link receiving notches for securing the disks against rotation, the ends of said pin terminating inwardly of the outer sides of said disks whereby the same are spaced from the adjacent tire.

1,351,299. DIRIGIBLE HEADLIGHT MECHANISM. MACK O. MEEKS, Wildorado, Tex. Filed Oct. 19, 1917. Serial No. 197,465. 1 Claim. (Cl. 240—62.)



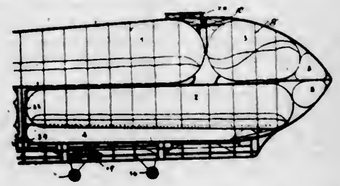
The combination with the frame, of a fixed sleeve, an elongated bushing in the sleeve extending its full length and having its ends flush with the ends of the sleeve, a lamp-bracket-stem oscillatable in the bushing, a cap fixed on the stem and supported on the upper ends of the sleeve and bushing, an actuating arm having a split hub on the lower end of the stem engaging the lower ends of the sleeve and bushing, and a clamp bolt in the free sides of the hub for rigidly securing the arm to said stem.

1,351,300. LATCH. SAMUEL H. MILLER, La Junta, Colo. Filed Dec. 13, 1919. Serial No. 344,578. 1 Claim. (Cl. 292—150.)



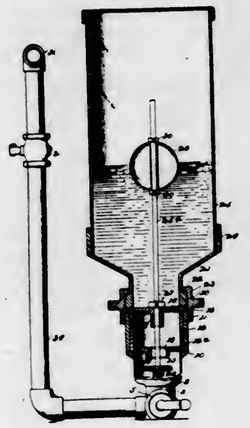
In combination with a lock mechanism including a casing and a latch bolt, a pair of spaced studs having sliding movement through a wall of a casing, a member pivotally engaged with and connecting the inserted end portions of the studs, and provided with an outstanding arm, a vertically disposed member pivotally engaged at one end portion with the opposite end portion of said arm, said last-named member coacting with the bolt when retracted and upon inward movement of one of the studs for holding the bolt against outward movement, a pair of spaced lugs carried by the casing adjacent the latch and between which the free end portion of the last named member is freely disposed, and a spring leaf secured substantially midway its length to the second member, the extremities of said spring leaf coacting with the face of the casing for holding said second member against movement away from the bolt when in working engagement therewith.

1,351,301. AIRSHIP. VINCENZO PRITELLI, Rome, Italy. Filed July 23, 1918. Serial No. 246,394. 1 Claim. (Cl. 244—6.)



An airship including a series of spaced ballonnets, diaphragms dividing the ballonnets into hydrogen and air chambers, the hydrogen chambers of the respective ballonnets being in open communication, and means for delivering air under pressure to the air chamber of any or all of the ballonnets to force the gas therefrom, a platform supported by the ballonnets, propellers arranged on the line of maximum length transverse the longitudinal dimension of the air ship, a vertical wing mounted above the ballonnets, a plurality of vertical wings arranged below the ballonnets, and a plurality of rudders.

1,351,302. ICE-CREAM MACHINERY. ANTHONY R. SANNA, Washington, D. C., assignor to George P. Sacks, Bethesda, Md. Filed Oct. 3, 1919. Serial No. 328,285. 5 Claims. (Cl. 221—100.)



1. In combination, an ice cream freezer, a mixture supply pipe located to supply "mix" to the freezer by gravity, a regulator between the mixture supply pipe and the ice

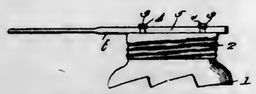
cream freezer including means for automatically receiving a predetermined charge of "mix" from the mixture supply pipe, and manual means for simultaneously cutting off the supply of mix in the mixture pipe and discharging the predetermined charge of "mix" in the regulator to the freezer.

1,351,303. AUTOMOBILE-MUFF. CHARLES R. SCOTT, Wyandotte, Okla. Filed Apr. 15, 1920. Serial No. 374,153. 5 Claims. (Cl. 2—104.)



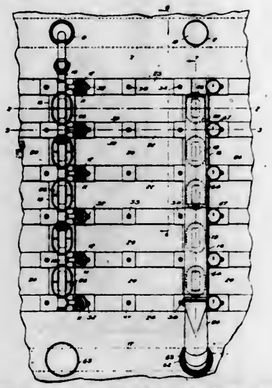
1. In a device of the character described, a substantially arcuate frame embodying upper and lower inwardly diverging sections, means to secure the frame to the steering post of an automobile, and a cover secured to said frame.

1,351,304. CLOSURE-RELEASING MEANS FOR JARS. WALTER M. SHELTON, South Richmond, Va. Filed Feb. 13, 1920. Serial No. 358,353. 2 Claims. (Cl. 215—84.)



1. As an article of manufacture, a jar closure having located upon its upper face at diametrically opposite points tool engaging lugs, certain opposite faces of said lugs being upwardly converged to cause an upward movement of a closure removing tool for engagement in front of one of the lugs and to the rear of the other lug, whereby upon applying pressure on the tool in one direction, the closure may be rotated, the upper ends of said lugs having heads provided with laterally extending parts curved toward the closure and adapted to overlie and bite upon the tool to limit the tool in its upward movement and retain the tool in a firm engagement with the lugs.

1,351,305. FURNACE CONSTRUCTION. ALBERT G. SMITH and BARTLEY E. BROADWELL, Niagara Falls, N. Y. Filed Mar. 19, 1919. Serial No. 283,469. 7 Claims. (Cl. 25—134.)



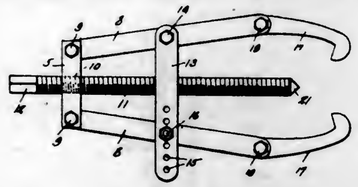
1. In a ring furnace, a gas flue, a hollow head wall at either end thereof, and having an orifice at its upper end discharging into the flue, a fuel gas inlet in the upper wall of the flue in proximity to said orifice, means for closing said orifice, and an observation hole in said flue adjacent to said inlet.

1,351,306. VEHICLE-SPRING. PERCY SMITH, Highland Park, Mich. Filed Sept. 19, 1919. Serial No. 324,816. 10 Claims. (Cl. 267—19.)



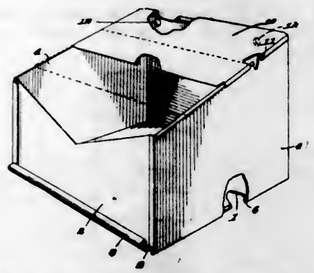
1. A device of the character described including pivotally connected arms, springs fixed thereto, and a connection between said springs coupling corresponding end portions of the arms and so arranged that when one of the arms is rocked with respect to the other said springs will be flexed.

1,351,307. GEAR-PULLER FOR AUTOMOBILES AND ALL OTHER KINDS OF MACHINERY. CARL W. STELTING, Medford, Okla., assignor of one-half to Clarence R. Nelson, Medford, Okla. Filed Jan. 26, 1920. Serial No. 354,030. 1 Claim. (Cl. 29—85.)



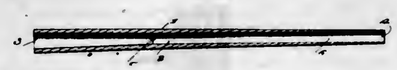
A gear puller comprising a head having a threaded aperture, a screw threaded therein, arms, means for pivotally connecting the arms to the head, jaws, means for pivotally connecting the jaws to the arms, links pivotally connected to one of the arms, said links having coinciding apertures and a fastener in the other arm extending through an aperture in each link for adjustably connecting the links to the said arms.

1,351,308. KNOCKDOWN HEN'S NEST. EDWARD SWANSON, Sheffield, Ill. Filed July 31, 1919. Serial No. 314,460. 3 Claims. (Cl. 119—45.)



1. A hen's nest comprising a rectangular receptacle having a cover element adapted to partially cover the same, and a slidable connection between said cover and the side walls of the receptacle for permitting said cover to be moved to position to provide two openings in the top of the receptacle of smaller than sufficient dimensions to permit entrance or exit of a hen.

1,351,309. GUN-BARREL. ARTHUR W. THISTLETHWAITE, Atchison, Kans. Filed June 4, 1918. Serial No. 238,160. 2 Claims. (Cl. 42—70.)



1. A smooth bore gun barrel of greater cross sectional diameter at its breech end than at its discharge end and having its bore gradually tapered from the extreme rear end of its breech in the direction of its discharge end for a distance not less than one-third nor more than two-thirds its length, the walls of the bore being of greater thickness at the breech end of the barrel than at the discharge end thereof.

1,351,310. SILO-HOOP. JOHN J. VERHAGEN, Cobleskill, N. Y. Filed June 5, 1919. Serial No. 301,984. 1 Claim. (Cl. 217—95.)



A turnbuckle for cable hoops comprising two substantially flat, truly rectangular blocks of identical size and shape and unobstructed on all sides and edges, each block having one edge for contact with a cable-encircled object and having a pair of cable receiving openings adjacent said edge, each block having near its opposite edge a single central opening, all of said openings leading from one flat side of the block to the other flat side thereof, and a screw passing through said central opening of each block.

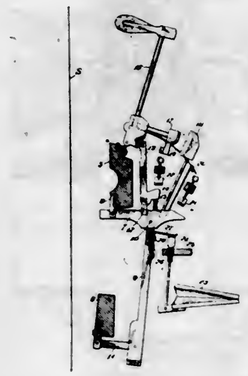
1,351,311. COMBINATION WASHRAG AND SOAP-CONTAINER. GEORGE VIENEBURG, New York, N. Y. Filed Sept. 3, 1919. Serial No. 321,315. 2 Claims. (Cl. 15—26.)



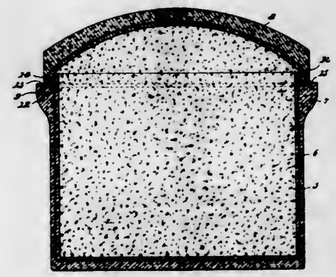
1. A wash rag composed of two pieces of flexible and porous material stitched together to form a pocket for soap or the like, the top or inner piece having a transversal incision to form a mouth for said pocket and a longitudinal extension at each end adapted to be folded around the hand of the user and to overlap one another, and fastening means on said extensions, said mouth being located near one end of said pocket to lie below the respective marginal, fleshy part of the user's palm so that it will be closed when said extensions are folded around the hand.

1,351,312. PLAYER-PIANO. FRANK J. W. WEISER, Elmhurst, Ill. Filed July 10, 1919. Serial No. 309,827. 2 Claims. (Cl. 84—68.)

1. In a player piano, a piano action including a hammer and its operating sticker, a player pneumatic having an adjustable cap located in front of the sticker and above the pneumatic, and a contact consisting of a flange attached to the front side of the sticker and a flexible spring arranged above the pneumatic and in the path of the cap.



1,351,313. BURIAL-VAULT. HARRY M. WELLS, Omaha, Nebr. Filed June 10, 1919. Serial No. 303,088. 2 Claims. (Cl. 72—7.)

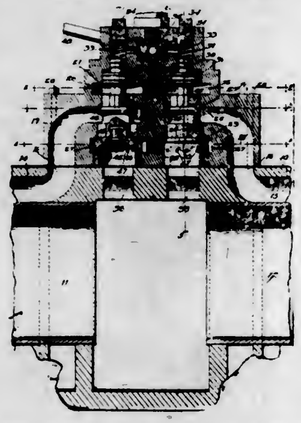


2. A burial vault comprising a body portion, a shoulder formed upon the upper edge thereof, the upper face of the shoulder being cut away to form a channel seat, a cover having a depending flange flatly resting on the bottom wall of the channel seat, and a plastic filling for sealing the cover on the shoulder positioned on the seat outwardly of the cover flange.

1,351,314. STEAM-CIRCULATING BY-PASS AND RELIEF VALVE. EUGENE B. WHELAN, Omaha, Nebr. Filed Feb. 1, 1919. Serial No. 274,521. 5 Claims. (Cl. 121—133.)

4. In a locomotive drifting device, a by-pass and relief valve having by-pass channels and a steam chamber, double seating valves controlling communication between said channels and between the channels and said

steam chamber, and having axial openings, pilot valves controlling the axial openings of the main valve, said



openings of the valve being in communication with the said steam chamber, and means for supplying low pressure steam to the said chamber.

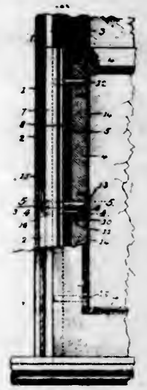
1,351,315. SLIDING WINDOW AND ITS FRAME. WILLIAM ADOLPHUS WILSON, Birmingham, England. Filed June 9, 1920. Serial No. 387,713. 1 Claim. (Cl. 20—49.)



The combination with a window frame, of an upper and lower sash mounted for sliding movement in said frame, a pair of independently revoluble pulleys mounted at the side of the frame intermediate its ends, a flexible strand led under one of the pulleys and having its ends connected to the upper parts of the sashes and a second flexible strand led over the other pulley and having its ends connected to the lower parts of the sashes whereby a movement of either sash compels movement of the other sash.

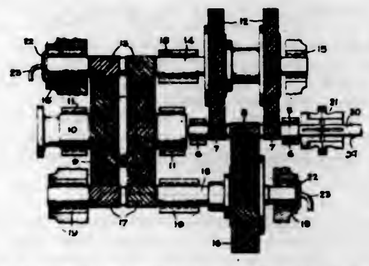
1,351,316. REVERSIBLE WINDOW. DAVID YADGIR, Chicago, Ill. Filed Feb. 16, 1920. Serial No. 359,128. 14 Claims. (Cl. 20—45.)

1. In a reversible window, the combination of a window frame provided with a vertical guide groove, a window sash formed with an open recess along an end of a vertical rail of the sash, a guide rail movable in said recess and adapted to engage in the guide groove of the window frame, a horizontal guide stem carried by the sash and having guiding engagement with said guide rail, said guide stem extending through the guide rail and into the guide groove of the window frame to constitute a pivot for the sash, a base plate carrying said stem and adapted



for attachment to an outer face of the sash rail, a removable bearing strip adapted for engagement with said stem, and means for imparting sliding movement to said guide rail.

1,351,317. GEARING. KARL ALQUIST, Schenectady, N. Y. Filed Nov. 20, 1917. Serial No. 203,064. 15 Claims. (Cl. 74—7.)



2. In a gearing, the combination of a high speed shaft having two helical pinion members thereon, one of which has right-hand teeth and the other left-hand teeth, a low speed gear wheel, a set of intermediate gear wheels which transmits load between one of said pinion members only and the low speed gear wheel, and a second set of intermediate gear wheels which transmits load between the other pinion member only and the low speed gear wheel, the gear wheels which engage the pinion members being located on opposite sides of the high speed shaft.

6. In a gearing, the combination of a high speed shaft having two gearing members thereon, one of which has right-hand helical teeth and the other left-hand helical teeth, a low speed gear wheel having double helical teeth thereon, and two sets of intermediate gear wheels which transmit the load from said gearing members to said low speed gear wheel, each of said intermediate sets comprising a low speed pinion having double helical teeth which mesh with the low speed gear wheel and a high speed gear wheel having single helical teeth, one of said high speed gear wheels meshing with one of said gearing members on one side of the high speed shaft and the other meshing with the other of said gearing members on the opposite side of the high speed shaft, and means for balancing the axial thrust of said intermediate sets of gear wheels.

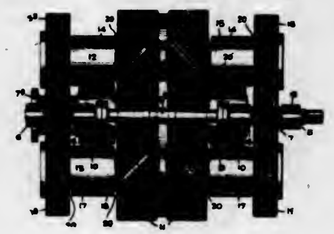
7. In a gearing, the combination of a high speed shaft having two helical pinions thereon, one of which has

right-hand teeth and the other left-hand teeth, a low speed gear wheel, a set of intermediate gear wheels which transmits load between one of said pinions and the low speed gear wheel, and a second set of intermediate gear wheels which transmits load between the other pinion and the low speed gear wheel, the gear wheels which engage the pinions being located on opposite sides of the high speed shaft, and means whereby the gear wheels of one of said intermediate sets may be adjusted angularly relatively to each other.

11. In a gearing, the combination of a high speed shaft, two pinion members thereon, one of which has right hand helical teeth and the other left hand helical teeth, one of said pinion members being formed in two parts which are located on opposite sides of the other, a low speed gear wheel, and two sets of intermediate gear wheels which transmit power between said pinion members and the low speed gear wheel, each of said sets comprising a gear wheel which engages one of said pinion members and a pinion engaging the low speed gear wheel.

12. In a gearing, the combination of a high speed shaft having two pinion members thereon, a low speed gear wheel, a set of intermediate gear wheels which transmits load between one only of said pinion members and said low speed gear wheel, and a second set of intermediate gear wheels which transmits load between the other only of said pinion members and said low speed gear wheel.

1,351,318. GEARING. KARL ALQUIST, Schenectady, N. Y. Filed Jan. 9, 1918. Serial No. 210,955. 16 Claims. (Cl. 74—7.)

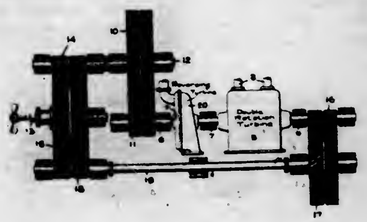


1. In a gearing, the combination of a high speed pinion comprising two parts, a low speed gear wheel, gearing means through which power is transmitted between said pinion parts and the low speed gear wheel, and means connecting said pinion parts together so arranged that such parts can adjust themselves relatively to each other by moving sidewise out of axial alinement.

11. In a gearing, the combination of a low speed gear wheel, two low speed pinions meshing therewith, shafts for said pinions having overhung ends, high speed gear wheels mounted on the overhung ends of said shafts, and a shaft carrying pinion members which mesh with said high speed gear wheels, said pinion members being balanced between said gear wheels and having right and left-hand helical teeth respectively.

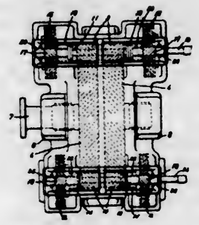
1,351,319. GEARING FOR DOUBLE-ROTATION TURBINES. KARL ALQUIST, Schenectady, N. Y. Filed Jan. 16, 1918. Serial No. 212,028. 1 Claim. (Cl. 74—7.)

In combination, a turbine having two rotors which revolve in opposite directions, shafts for said rotors, a driven shaft, gearing through which said driven shaft is driven by both rotors, the gearing for one rotor shaft comprising a gear wheel and a pinion meshing directly therewith, and the gearing for the other rotor shaft comprising a pinion, a gear wheel, and two intermediate gear wheels through which power is transmitted in parallel



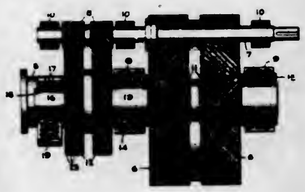
from the pinion to said gear wheel, and a reversing turbine associated with one of the rotor shafts.

1,351,320. GEARING. KARL ALQUIST, Schenectady, N.Y. Filed June 22, 1918. Serial No. 241,345. 11 Claims. (Cl. 74—7.)



1. In combination, a gear casing having bearings in its walls, shafts mounted in said bearings, gear wheels carried by said shafts, supporting means for said casing located under the bearings of one of said shafts, and supporting means for said casing located between the bearings of another of said shafts.

1,351,321. GEARING. KARL ALQUIST, Schenectady, N. Y. Filed June 22, 1918. Serial No. 241,346. 8 Claims. (Cl. 74—7.)

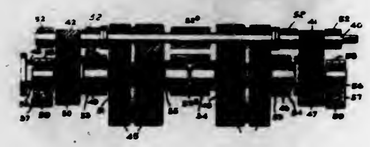


8. The combination with a high speed pinion, a low speed gear wheel, and intermediate gearing for transmitting power from one to the other including an intermediate shaft and overhung gearing means thereon, of yielding means supporting the weight of said overhung gearing means.

1,351,322. GEARING. KARL ALQUIST, Schenectady, N. Y. Filed June 22, 1918. Serial No. 241,347. 27 Claims. (Cl. 74—7.)

1. In a gearing, the combination of a high speed shaft, right hand and left hand helical pinion members thereon, a low speed shaft, a plurality of intermediate speed shafts through which power is transmitted between the high speed shaft and the low speed shaft, and a helical gear

wheel having single helical teeth on each intermediate speed shaft which meshes with only one of said pinion members, whereby one intermediate speed shaft transmits power from only one of said pinion members and the other intermediate speed shaft transmits power from only the other of said pinion members.



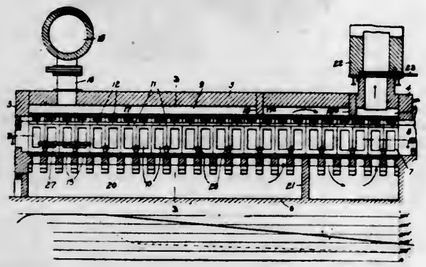
19. In a gearing, the combination of a high speed shaft, a pair of pinion members mounted thereon, one of which has right hand helical teeth and the other left hand helical teeth, a low speed shaft, a pair of gear wheel members thereon, an intermediate speed shaft associated with each pinion member, gear wheels on each such intermediate speed shaft for transmitting power from a pinion member to a low speed gear wheel member, said low speed gear wheel members and the gear wheels meshing therewith having right hand and left hand helical teeth thereon which are unequal as to width so as to balance the axial thrust on said intermediate shafts.

20. In a gearing, right hand and left hand helical pinion members, means connecting them which permits said members to adjust themselves relatively to each other, a low speed shaft, a plurality of intermediate speed shafts through which power is transmitted between said pinion members and the low speed shaft, and a single helical gear wheel on each intermediate speed shaft which meshes with one of said pinion members.

23. In a gearing, right hand and left hand helical pinion members, means connecting said members whereby they can adjust themselves relatively to each other, a low speed shaft, two gear wheel members thereon each having double helical teeth, an intermediate speed shaft associated with each pinion member, and helical gear wheel means on each intermediate speed shaft for transmitting power between such pinion member and a gear wheel member.

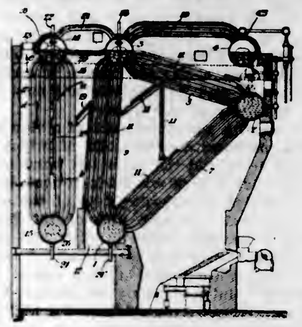
26. In a gearing, the combination of a high speed shaft, a plurality of pinion members thereon, a low speed shaft, a plurality of intermediate speed shafts, and gear wheel means on each intermediate speed shaft which transmits power from one only of said pinion members to said low speed shaft.

1,351,323. ANNEALING-FURNACE OR LEER. WALTER O. AMSLER, Edgewood, Pa. Filed Nov. 29, 1918. Serial No. 264,491. 11 Claims. (Cl. 49—46.)



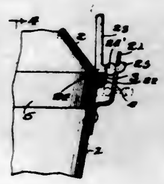
6. In an annealing furnace or leer, a muffle having its sides and arch formed of tiles disposed therein, said muffle having its side walls formed of a series of side wall tiles proper and a series of independent skew tiles, the arch of the muffle being supported by the skew tiles.

1,351,324. STEAM-BOILER. JOHN P. BADENHAUSEN, Philadelphia, Pa. Filed May 19, 1917. Serial No. 169,609. 7 Claims. (Cl. 122—444.)



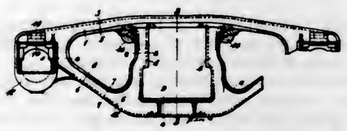
1. In a steam generating system comprising a boiler, a feed-water preheater comprising the combination of a water drum, a steam-and-water drum located above said water drum, tubes connecting said drums and baffling located among said tubes and extending vertically downwardly from said steam-and-water drum to a short distance from said water drum whereby the hot gas is directed downwardly along one portion of said tubes and upwardly along another portion of said tubes so as to cause a continuous circulation of the water in said preheater successively through said tube portions and said drums.

1,351,325. CONTAINER. THOMAS S. CATLIN, Indianapolis, Ind. Filed Jan. 9, 1917. Serial No. 141,372. 3 Claims. (Cl. 220—56.)



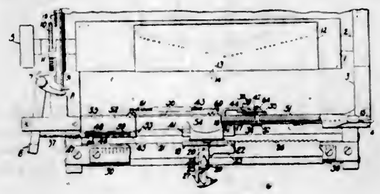
1. In a device of the class described, the combination with a container and a closure therefor, of a bail for the container, and ears on the container for supporting the bail, said bail having out-turned ends and the ears having restricted openings therein receiving the ends of the bail, each end of the bail having an enlargement adapted, when turned to a predetermined position, to pass through the opening in the adjacent ear in one direction for binding the bail against the closure to hold the latter in place and in the other direction to hold the bail out of engagement with the closure to admit opening thereof.

1,351,326. RAILWAY SIDE FRAME. CLAUS J. WERNER CLASEN, Davenport, Iowa, assignor to The Bettendorf Company, Bettendorf, Iowa, a Corporation of Iowa. Filed Oct. 28, 1919. Serial No. 333,903. 8 Claims. (Cl. 105—205.)



1. An integral metallic side frame for car trucks, comprising column members, a top member, a lower member, and a journal box at each end of said lower member, said column, top and bottom members being all of U section, said top member extending above the tops of said journal boxes.

1,351,327. TYPEWRITING-MACHINE. CORNELIUS B. CORCORAN, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 15, 1919. Serial No. 271,203. 28 Claims. (Cl. 97—63.)



1. In a typewriting machine, the combination with a traveling carriage and a line-space lever therefor, of a margin-stop, and means adapted to be variably positioned by operation of the line-space lever to vary the point at which the margin-stop will be effective, independently of the travel of the carriage.

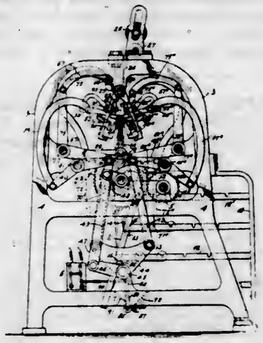
1,351,328. CAP FOR NURSING-BOTTLES AND THE LIKE. WILLIAM MORE DECKER, Buffalo, N. Y. Filed Dec. 6, 1918. Serial No. 265,659. 2 Claims. (Cl. 215—11.)



1. The combination of a nursing and sterilizing cell provided at its mouth with a projecting flange, and an elastic dome-shaped sterilizing cap arranged outside of the cell and having a beaded base-portion stretched over said cell-flange and engaging thereunder, said cap being provided in its top with a pocket for a porous plug extending into the interior of the cap, said pocket having a bottom and a normally-open gas-escape aperture which is unobstructed except by said porous plug during the sterilizing process.

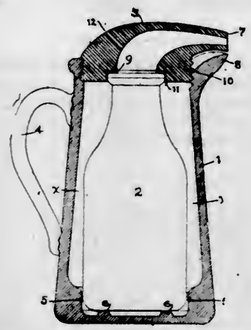
1,351,329. LACE-MAKING MACHINE. PERCY GREENWOOD, New York, N. Y., assignor to August A. Follmer, New York, N. Y. Filed Jan. 8, 1917. Serial No. 141,115. 2 Claims. (Cl. 66—6.)

1. In a lace making machine the combination of point bars and catch bars and main operating mechanism therefor located in a lower plane than said bars, with a lace making space between it and said bars, and operating connections, at opposite ends of the machine and beyond the lace making space, extending upwardly from said operating mechanism to said bars.



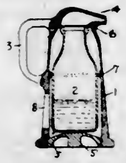
2. In a lace making machine the combination of point bars and catch bars and main operating mechanism therefor located in rear of the front frame of the machine and in a lower plane than said bars, with a lace making space between said mechanism and said bars, and operating connections, at opposite ends of the machine and beyond the lace making space, extending upwardly from said operating mechanism to said bars.

1,351,330. FLUID-CONTAINER. ARTHUR J. HERSCHMANN, New York, N. Y. Filed Apr. 24, 1920. Serial No. 376,381. 6 Claims. (Cl. 65—61.)



2. A fluid container comprising a body portion adapted to receive a milk bottle or the like and having a threaded neck through which such bottle may be inserted, such body portion having a spout and a coöperating unitary threaded cap with an opening formed within it and registering with the mouth of the bottle through which the contents of the bottle may be poured.

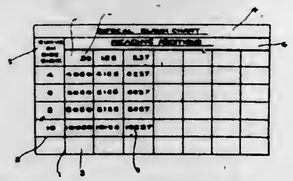
1,351,331. FLUID-RECEPTACLE. ARTHUR J. HERSCHMANN, New York, N. Y. Filed Apr. 30, 1920. Serial No. 377,996. 1 Claim. (Cl. 65—61.)



A fluid receptacle adapted to receive a readily replaceable and standard size of milk bottle, or the like, from

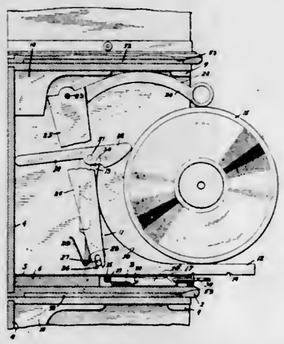
below, comprising an open-bottomed one-piece jug with its otherwise permanently closed upper end provided with a fluid conduit registering at its inner end with the open mouth of the bottle while its outer and smaller end serves as a nozzle for the emission of the fluid, and a removable retaining plug for the bottom of the jug.

1,351,332. CHART. HARRY W. HILL, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 4, 1918. Serial No. 226,710. 7 Claims. (Cl. 283—1.)



1. A chart for use in the selection of bifocal lens blanks, consisting of intersecting rows and columns, designations for one of said members indicating the power of the distance portion on the bifocal face, designations for the other indicating the excess of power in the reading portion over the power in the distance face, and a key number at the intersection of the row and column built up from the designations of the row and column, said key number comprising three sections, a two unit section denoting fractional diopter portions, a one unit section denoting whole diopter variations, and additional unit columns indicating the base on which the latter parts are figured.

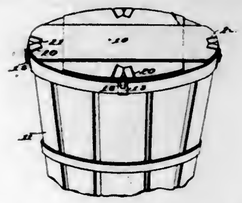
1,351,333. LOCK-CABINET FOR PHONOGRAPH-RECORDS. MILLER REESE HUTCHISON, West Orange, N. J., assignor to Miller Reese Hutchison, Inc., a Corporation of New Jersey. Filed June 3, 1919. Serial No. 301,520. 50 Claims. (Cl. 211—16.)



1. In a cabinet for phonograph records, in combination, a plurality of compartments, each having a slidable carriage frame therein, each said frame being adapted to support a record, means responsive to the movement of any said frame to permit release of the corresponding record, and means to prevent release of any other record while said record is released.

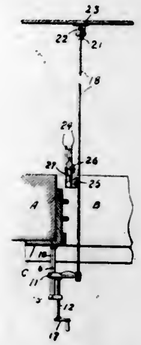
1,351,334. BASKET-FASTENER. JAMES FRANCIS KENNEDY, Charleston, S. C. Filed Feb. 27, 1920. Serial No. 361,854. 5 Claims. (Cl. 217—124.)

1. A cover fastener for baskets having rim bands and having a cover provided with inwardly converging slots extending through its edge, consisting of a clip having one bent end extending upwardly beneath the lower edge of the rim band and provided with a hook at its opposite end exteriorly of the rim band, extending wires anchored to the clip and projecting inwardly over the basket edge



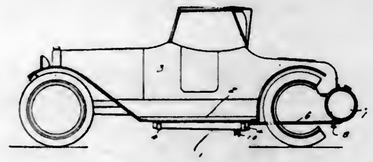
and upwardly through the inner ends of the said slots of the cover, the extremities of said wires projecting outwardly and downwardly over the edge of the cover between its slots and engaged with the hook of the clip, as described.

1,351,335. LAUNDRY-HANGER. MACIEJ KORKUS, Providence, R. I. Filed Oct. 27, 1919. Serial No. 333,518. 1 Claim. (Cl. 68—3.)



A support for endless clothes lines including a frame, means to detachably rigidly connect said frame to the inner side of a window casing so as to project inwardly from the latter, a laterally extending arm slidable on said frame, a pulley carried by said arm over which the endless clothes line is adapted to travel, a block carried by the inner end of said frame, a screw threaded through said block and rotatably connected at its outer end to said arm, and means for operating said screw.

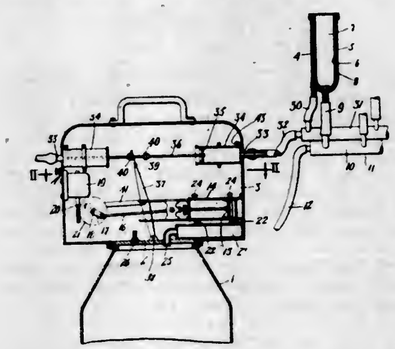
1,351,336. EMERGENCY-TANK FOR AUTOMOBILES. SAMUEL H. LOVE, Sanford, Fla., assignor of one-third to Henry Meacham, Sanford, Fla. Filed Sept. 5, 1917, Serial No. 189,777. Renewed Jan. 14, 1920. Serial No. 351,495. 1 Claim. (Cl. 280—164.)



The combination with an automobile including a running board, of a main fuel supply tank carried thereby, an auxiliary tank suspended from the under face of said

running board and positioned closely adjacent the same, the auxiliary tank corresponding substantially in length and width to the running board and the running board acting to support and to cover said auxiliary tank so as to protect the same from injury while permitting ready access to the auxiliary tank, said auxiliary tank being positioned below the main tank, a pipe establishing communication between the main tank and the auxiliary tank at the top thereof, a control valve in said pipe, and means for draining fuel from said auxiliary tank.

1,351,337. MILKING-MACHINE. HERBERT A. MCARTHUR, Montreal, Quebec, Canada. Filed June 10, 1918. Serial No. 239,108. 5 Claims. (Cl. 31—100.)



1. In a milking machine the combination of double chambered teat cups, double acting pumping means acting on one stroke to force fluid pressure into the outer chambers of one cup or group of cups and at the same time create suction in the outer chamber of another teat cup or group of teat cups and on the opposite stroke to reverse such conditions of suction and pressure, and means for supplying suction to the inner teat cup chambers.

2. In a milking machine the combination of double chambered teat cups, a pumping system comprising a reciprocating piston and cylinder means adapted to produce pressure in one part of said system and simultaneously produce suction in another part of said system and vice versa, connections between the outer chambers of different teat cups or groups of teat cups and the respective parts of the pumping system, and means for applying suction to the inner teat cup chambers.

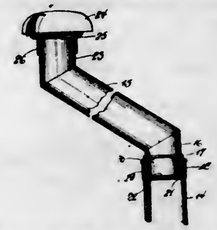
3. A portable milking unit comprising a milk pail, a lid therefor, a casing mounted on the lid, a vacuum pump in the casing, a pair of pulsation cylinders in the casing, pistons in the cylinders connected by a common piston rod, a motor in the casing, driving connections from said motor to said vacuum pump and to said piston rod, and groups of double chambered teat cups, the outer chambers of the cups of the respective groups being connected to the respective pulsation cylinders and the inner chambers of the teat cups being connected to discharge into the milk pail.

4. In a milking machine the combination of teat cups, a suction pump and means for determining the degree of suction to be produced by the pump by providing the pump with a definite clearance proportioned to the degree of suction to be produced.

5. In a milking machine the combination of teat cups, a suction pump for producing suction therein and means for varying the clearance of the pump to adjust the degree of suction to be produced.

1,351,338. LUBRICATING ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. CHARLES L. MAGEE, Washington, D. C. Filed Dec. 30, 1919. Serial No. 348,360. 4 Claims. (Cl. 184—105.)

4. A lubricating attachment for engines having a breather pipe, comprising a pipe equipped with a spud upon one end, a thimble adapted to fit over said spud, said thimble having an inturned flange at its end, a screen removably fitting in the thimble and supported on said flange, said spud being adapted to engage in the



thimble against the screen for holding the latter to the flange, and said thimble being adapted to engage in said breather pipe, and means on the upper end of the device for supporting the same on the engine.

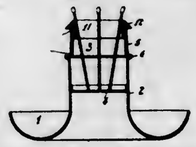
1,351,339. SUNSHADE. OSCAR MAUREB, Richmond Hill, N. Y. Filed Apr. 1, 1920. Serial No. 370,552. 6 Claims. (Cl. 296—95.)



1. The combination with windshield standards and a windshield panel pivotally hung therebetween and provided with clamps at the pivotal supports thereof for securing the same in different angularly adjusted relations, of a sunshade panel overstanding said windshield panel and provided with bearings at the opposite ends of the same, adjustable supporting brackets for the sun shade having base portions pivotally engaged with and detachably held by the windshield panel clamps and having offset oppositely disposed bearing elements at the opposite sides of the windshield pivotally engaged with the bearings at the ends of the sunshade panel, and means for securing the sunshade panel in various angularly adjusted relations over the windshield panel.

2. A sunshade for attachment to automobile windshields comprising a substantially U-shaped frame, a tubular element bridging the open side of said frame, supporting brackets having spindles projecting through the sides of said frame and adjustably engaging in the ends of the tubular element, said brackets having angularly projecting base portions perforated to receive supporting means, and a covering over the frame thus formed, said frame being held together by the spindles of the supporting brackets.

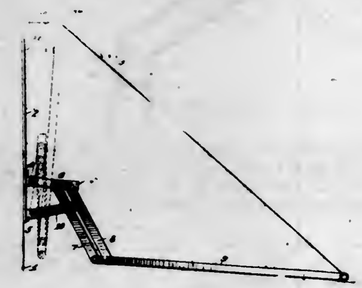
1,351,340. MATCH-HOLDER. JACOB E. NEAHR, New York, N. Y. Filed Mar. 4, 1918. Serial No. 220,159. 1 Claim. (Cl. 206—20.)



In combination, a match-safe of slightly tapering form and a band of igniting material forced upon the taper

and mechanically held in position thereby against accidental movement, said match-safe having a surface roughened to prevent the band from slipping or creeping around the safe.

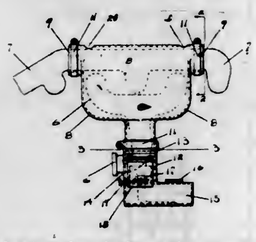
1,351,341. AWNING-ARM. JOSEPH F. O'BRIEN, West New York, N. J. Filed June 19, 1917. Serial No. 175,570. 2 Claims. (Cl. 156—42.)



1. An awning support comprising a pair of awning arms at opposite sides of the awning, each side having a base member pivoted at a fixed point to the window frame, two parallel intermediate members pivotally connected to said base member contiguous to the outer end thereof, an outer member connected at one end to the awning and having a pivotal connection at its opposite ends with the inner of said two parallel members and a connection intermediate its ends with the other of said two parallel members, a supporting member pivoted to one of said intermediate members at one end and to a fixed point on the window frame at the opposite end and means for limiting the extension movement of said members.

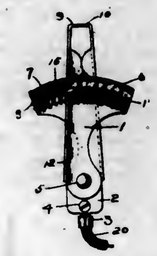
2. An awning support comprising a pair of awning arms at opposite sides of the awning, each side having a base member pivoted at a fixed point to the window frame, two parallel intermediate members pivotally connected to said base member contiguous to the outer end thereof, an outer member connected at one end to the awning and having a pivotal connection at its opposite end with the inner of said two parallel members and a connection intermediate its ends with the outer of said two parallel members, a supporting member pivoted to one of said intermediate members at one end and to a fixed point on the window frame at the opposite end and an extension on the base member adapted to abut against one of said two intermediate members to limit the extension movement of the awning arm.

1,351,342. HEATER. FRANK R. PETTITT, Portland, Oreg. Filed Jan. 29, 1919. Serial No. 273,896. 3 Claims. (Cl. 263—5.)



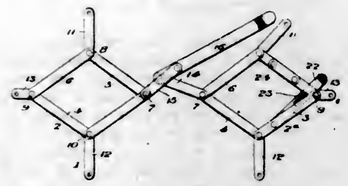
1. In a heater for hydro-carbon motors, a casing adapted to inclose the gas intake manifold of said motor; a downwardly projecting open flange upon said casing; a heater; an upwardly projecting flange upon said heater; and means to secure said flanges together.

1,351,343. TEST-CLIP. GEORGE H. REMPES, Cleveland, Ohio. Filed Jan. 16, 1917. Serial No. 142,639. 2 Claims. (Cl. 24—252.)



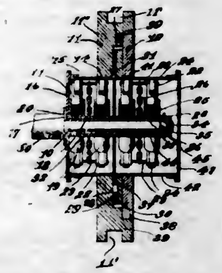
2. In a device of the class described, the combination of two rearwardly pivoted clamping members provided with jaws arranged to be distended to grip an electrical conductor, a semi-circular depression formed in each of said members for supporting a spiral tension spring, said spring serving to maintain said jaws in engagement, said depressions partially housing said spring when said jaws are in engagement and to practically house said spring when said jaws are distended.

1,351,344. PACKAGE-TIE. WILLIAM FERDINAND RILEY, Spokane, Wash. Filed May 22, 1919. Serial No. 298,944. 6 Claims. (Cl. 24—24.)



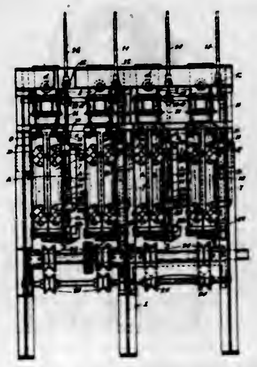
4. In a tying or binding device, a plurality of sets of lazy tongs each having means for receiving the tying means, longitudinal links pivoted to said lazy tongs, a lever pivotally connected to said longitudinal links, a latch pivoted to one of the lazy tongs adapted to receive the end of the lever and a pin on the said lazy tongs engaging said latch and thereby locking the lever thereon.

1,351,345. VEHICLE-WHEEL. BENJAMIN W. ROTH, Allentown, Pa. Filed Nov. 7, 1917. Serial No. 200,750. 6 Claims. (Cl. 152—45.)



1. The combination with an axle, a hub including a cylindrical casing inclosing the axle, and means for communicating rotary movement from the axle to the hub; of shock absorbing members on the axle within the hub, each having an element yieldingly distended into normal contact with said casing, a chain encircling said axle, and chains radiating from it and each connected with one of said elements.

1,351,346. INGOT-MOLD. JOHN T. ROWLEY, Pittsburgh, Pa. Filed Dec. 8, 1916. Serial No. 135,792. 7 Claims. (Cl. 22—144.)



1. In a casting apparatus, the combination of a mold comprising two sections, the said sections being connected by toggle members, means to operate said toggle members, a water jacketed neck piece constituting the upper end of the mold sections adapted to receive the metal initially, the lower end of said mold sections being closed by a water jacketed door, and means to swing said door into open position simultaneously with the opening of the mold sections.

1,351,347. DRILL-CHUCK. CHARLES LYON RUSSELL, New York, N. Y. Filed Dec. 6, 1918. Serial No. 265,629. 2 Claims. (Cl. 279—72.)

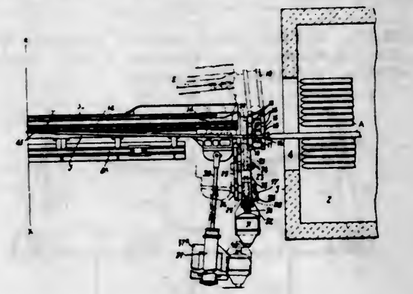


1. In a chuck, the combination with a sleeve, of a jaw carrier mounted in and rotatable relatively to said sleeve, the jaw carrier having a centrally disposed tool seat and jaw pockets extending outwardly from such tool seat, and a substantially flat jaw in each such pocket having a rounded tool engaging face at its inner edge and a rounded cam engaging face at its outer edge, the sleeve being provided on its inner face with jaw engaging cams, the width of the jaw pockets and the width of the jaws being of such relative proportions that the jaw has a loose fit in the pocket and is capable of inward edgewise movement by the action of the cam and is also capable of a limited rolling movement against the cam and against the tool when the said rounded edge faces are engaged by these.

1,351,348. METHOD OF AND APPARATUS FOR MAKING BUTT-WELD PIPES. JOHN SHEDDON, McKeesport, Pa., assignor to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Nov. 22, 1918. Serial No. 263,710. 8 Claims. (Cl. 205—12.)

1. The method of making butt-weld pipe which consists in connecting one end of the heated pipe skelp to the traveling chain of a draw bench, and thereby pulling the skelp through a welding bell, and shifting the relative position of the draw chain and welding bell to thereby move the chain sidewise out of alinement with the axial center of said bell and into substantial alinement with another bell and to pull the skelp through said first bell in a path at an angle to the lengthwise center of the traveling draw chain in the welding operation.

3. In the manufacture of butt-weld pipes, the steps consisting in attaching the pipe tongs to the traveling draw chain of a draw bench having a series of welding bell holders, after applying a welding bell to one of said holders, and shifting the position of the draw bench relative to the welding bell after attachment of the tongs to the draw chain to thereby draw the attached skelp through the welding bell in a path at an angle to the line of travel of the draw chain and to aline the draw chain with another bell holder in said series of holders.

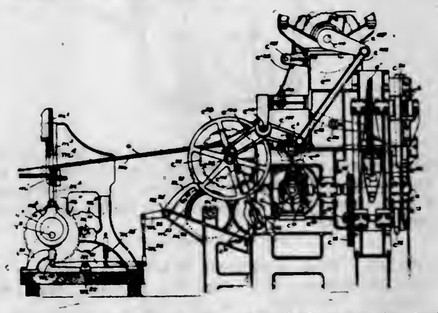


1,351,349. TIE. ALBERT M. SNIDAOWSKI, U. S. Army. Filed Sept. 9, 1919. Serial No. 322,703. 1 Claim. (Cl. 2—83.)



A necktie of the type described comprising a knot plate, a knot strip associated with the knot plate, said knot plate being of inverted substantially cone-shaped formation, inwardly directed flanges carried by the upper and the side edges of the plate and overlying the same, the outer edges of the side flanges adjacent their lower ends having an opening therein, a pair of hooks carried by the knot strip adapted to be received in said openings with the knot strip folded about the plate in simulation of a four-in-hand, and fastening means carried by the knot strip for holding the free end thereof in position.

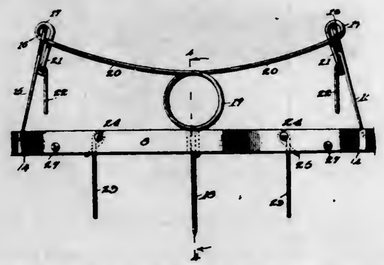
1,351,350. INTERPOSED-FABRIC MACHINE. WILLIAM S. SOUTHWICK, Clinton, Mass., assignor, by mesne assignments, to Wickwire Spencer Steel Corporation, a Corporation of Massachusetts. Filed Apr. 22, 1918. Serial No. 230,027. 16 Claims. (Cl. 140—112.)



1. In a machine of the class described, means for feeding strand members, means for feeding stay members,

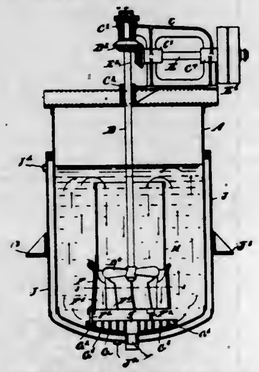
means for feeding fabric between said members, means for forming cross rows of perforations in said fabric, means for welding the strand and stay members through said perforations, and means for changing the distance of travel of the fabric from the point of perforation to the point of welding.

1,351,351. GOPHER-TRAP. JOSEPH FREDRECH STANKIEWICZ, Bandon, Oreg. Filed Jan. 6, 1920. Serial No. 349,761. 3 Claims. (Cl. 43—86.)



1. In a trap the combination with a frame comprising metal side bars and a laterally elongated guide loop at each end, spring mechanism held in said frame centrally of said elongated loops, choker ring arms associated with the said spring mechanism and actuated thereby, said arms extending from said spring mechanism to the outer ends of said frame and above the elongated loops of the frame, choker rings loosely hung at the outer ends of said arms and guidedly held in the elongated loops, a detent supporting loop at the outer end of said arms, a detent pivotally hung to said detent supporting loop, triggers mounted between the side bars of the frame intermediate the laterally elongated end loops and the central part of said frame, and means for anchoring the trap against relative movement.

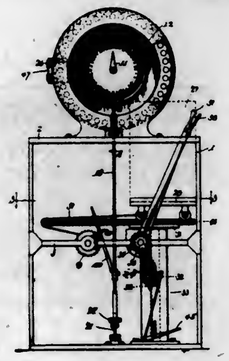
1,351,352. EMULSIFIER. ROBERT H. STEVENS, Larchmont, N. Y., assignor to Stevens Brothers, New York, N. Y., a Firm. Filed Mar. 11, 1920. Serial No. 365,099. 12 Claims. (Cl. 259—97.)



1. In an apparatus of the character set forth, a container, means to induce an axially directed stream in the contents of said container, and means located in the path of such stream whereby the latter is baffled against outward movement.

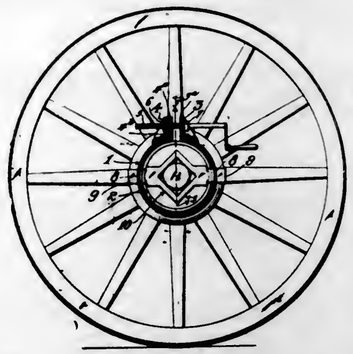
1,351,353. BOX-MARKING MACHINE. ROBERT F. STUART, Kokomo, Ind. Filed Dec. 19, 1918. Serial No. 267,422. 15 Claims. (Cl. 197—6.7.)

1. In a package imprinting machine, printing means, means to move the printing means to printing position, package carrier means, means common to the moving means and to the carrier means to actuate each, and



means whereby said common means may be continuously operated without effecting actuation of the moving means.

1,351,354. VEHICLE-HUB WRENCH. GEORGE TOWNILL, PETER TOWNILL, and GEORGE SAMPSON, Plainfield, Ill. Filed Mar. 19, 1920. Serial No. 367,030. 1 Claim. (Cl. 81—75.)

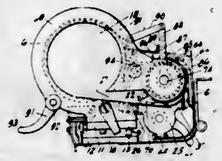


A hub wrench for removing axle nuts comprising a flexible band, the ends of said band being spaced apart, lugs carried by the ends of the band, a threaded bolt passing through apertures in said lugs, a rectangular shaped nut threaded on said threaded bolt and disposed in a recess of one of the lugs, a shoulder carried by the threaded bolt and engaging the outer face of the other lug, means whereby said bolt may be rotated to draw the lugs together and clamp the band on a hub, there being diametrically disposed apertures in the flexible band, a socket wrench provided with oppositely disposed arms, said arms being slidably mounted in the diametrically disposed apertures so that said socket wrench will assume a substantially central position for the reception of axle nuts when the clamping band is applied to various sizes of hubs.

1,351,355. TYPEWRITING-MACHINE. BENJAMIN W. TUCKER, South Orange, N. J., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Original application filed May 26, 1916, Serial No. 100,037. Divided and this application filed Sept. 17, 1917. Serial No. 191,660. 17 Claims. (Cl. 197—60.)

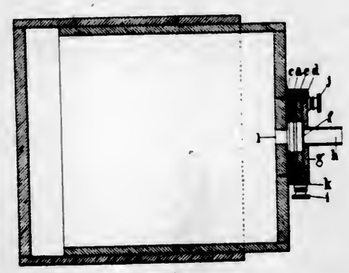
1. In a typewriting machine, the combination of a carriage, a substantially cylindrical work sheet holder having

open ends and a longitudinally extending throat portion having an entrance into said work sheet holder throughout the length of the holder at the forward side of said holder, a platen located forward of the work sheet holder, a roll located beneath the platen and coöperating therewith to



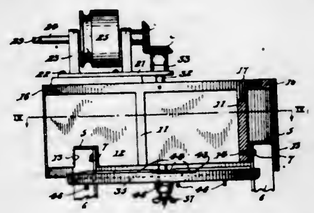
hold the work sheet between the platen and the roll, and line spacing means embodying a curved line space lever operatively connected with the platen and extending rearwardly and downwardly about the work sheet holder to a point below the path of the work sheet.

1,351,356. SOUND-DETECTING DEVICE. WILLIAM SANSOME TUCKER, Thames Ditton, England. Filed Jan. 6, 1919. Serial No. 269,902. 12 Claims. (Cl. 179—101.)



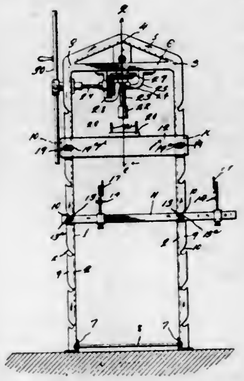
1. A sound detecting device comprising an electrically heated thin conductor in combination with a sound box and with means for producing a small blast of air past the electrically heated thin conductor into the sound box, the said conductor being arranged between the said means and the sound box, as and for the purpose set forth.

1,351,357. VEGETABLE-CUTTER. FRANK TURK, Casselman, Pa., assignor of one-fourth to Frank Gacnik, Johnstown, Pa., and one-fourth to Josip Hocevar, Rockwood, Pa. Filed July 2, 1919. Serial No. 308,137. 1 Claim. (Cl. 146—11.)



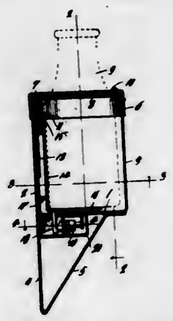
A vegetable cutter comprising a pair of spaced horizontal parallel bars, supporting legs secured at their upper ends to the ends of said bars, a frame comprising crossed spaced flat vertical members, one of said bars lying flatly against the outer face of one of said crossed members and rigidly secured to the latter, another of said crossed members being cut out at its lower edge for reception of the other bar therein, a cylindrical casing surrounding said frame and contacting the ends of the crossed members thereof, said casing being also cut out at its lower edge for reception of the ends of said bars, said crossed members of the frame providing an open space for the introduction of a vegetable to be cut, a disk upon said crossed members having an opening therethrough coincident with said space, a horizontal rotary cutter member operatively positioned adjacent the lower edges of the crossed members, and means to rotate said cutter member for causing the vegetable to be cut as the same is fed downwardly through said space.

1,351,358. HAND-PRESS FOR SHAFTING. HENRY C. URBANER, Naperville, Ill. Filed Dec. 13, 1919. Serial No. 344,757. 7 Claims. (Cl. 153—53.)



1. A press for straightening shafts and the like said press comprising a U-shaped frame formed from channel iron, the flanges of said channel iron being outwardly disposed, the sides of said U-shaped frame having their flanges provided with inwardly and downwardly extending notches in registration with each other and in registration horizontally to each other, said notches forming means for supporting a shaft supporting bed, a vertically movable shaft adapted to be moved downwardly into engagement with a shaft on the shaft supporting means, and means for moving said vertically disposed shaft upwardly or downwardly as desired.

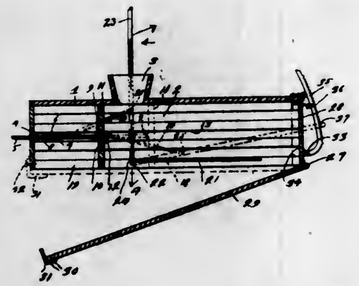
1,351,359. COMBINED MILK-BOTTLE HOLDER AND LOCK. FREDERIC WAMBACK, Greenwich, Conn. Filed May 8, 1919. Serial No. 295,554. 5 Claims. (Cl. 232—41.)



1. A bottle rack comprising a base, arms extending upwardly from the base, an annular member connecting the

upper ends of the arms and having an inner flange, an inclosed locking mechanism disposed below the base, contractile bottle gripping means located within the annular member just below the flange thereof, an operating bar having a bottle engaging rest at its lower end and having its upper end connected with the bottle gripping means and a locking element movable with the operating bar and adapted to pass through an opening in the bottom and cooperating with the locking element to secure the parts in locked position.

1,351,360. BALING-PRESS. SOLOMON F. WEITMAN, Live Oak, Fla. Filed Nov. 13, 1917, Serial No. 201,787. Renewed Jan. 29, 1920. Serial No. 354,886. 3 Claims. (Cl. 100—4.)

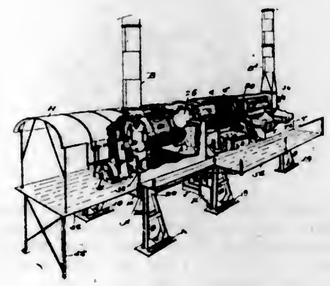


1. In a hay baling machine, a frame having a baling chamber provided with guides, a plunger mounted in said chamber, means mounted in said guides and connected to the plunger, whereby the plunger may be guided in its movements, and a U-shaped lever having its arms pivoted to the sides of the baling frame and having link connections with said means for moving the plunger, the forward end of the baling chamber having on its outer face a pivoted spring tensioned rack, to be engaged by the arch of the U-shaped lever to hold the same tilted forwardly and downwardly as the plunger moves forwardly.

3. In a hay baling machine, a frame having a baling chamber provided with guides, a plunger mounted in said chamber, means mounted in said guides and connected to the plunger, whereby the plunger may be guided in its movements, and a U-shaped lever having its arms pivoted to the sides of the baling frame and having link connections with said means for moving the plunger, said baling chamber having a forward hinged end, the lower portions of the side walls of the chamber having elongated slots provided with offset portions at their rear ends to receive the pivot pins, whereby the lever may be pulled forwardly by removing the pivot pins from the offset portions and causing them to move longitudinally in the slots, the forward face of the forward end having a pivoted spring tensioned rack to be engaged by the arch of the U-shaped lever to hold the same tilted forwardly and downwardly when the forward end piece is closed, to hold the plunger in its forward position.

1,351,361. APPARATUS FOR PREPARING PAVING MATERIALS. LAWRENCE BATES WEST, Chattanooga, Tenn., assignor to One Fire Asphalt Plant Company, Chattanooga, Tenn., a Corporation of Tennessee. Filed Aug. 7, 1915. Serial No. 44,338. 20 Claims. (Cl. 94—41.)

20. A plant for manufacturing paving material comprising, in combination, a furnace, a pair of stacks one of which is directly connected to the furnace, a drying drum constituting a connection between the furnace and the other of said stacks and valvular means for each of said



stacks for controlling the passage of the products of combustion therethrough.

1,351,362. NAME-PLATE AND ANNUNCIATOR. WILLIAM H. BAILEY, New Lexington, Ohio. Filed Mar. 1, 1919. Serial No. 280,017. 1 Claim. (Cl. 116—133.)

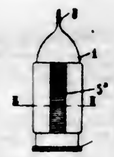


Office indicating means comprising an annunciator dial on the outside of the office door, a plate covering the dial and having an observation opening at one side to expose matter on the dial and having other openings at its top and bottom and having a central and other projections on the side adjacent the door, cards opposite the top and bottom openings bearing the name and office hours of the person respectively, a dial on the inner side of the door, a shaft extending through the door and journaled at its outer end in the central projection of the covering plate and at its inner end in the inner dial, and having the outer dial secured to its outer end, and a hand secured to the inner end of the shaft and coöperating with the inner dial.

1,351,363. PROCESS FOR REMOVING TAR FROM PRODUCTS OF THE DISTILLATION OF WOOD OR COAL. EMILE AUGUSTIN BARBET, Paris, France. Filed Nov. 6, 1918. Serial No. 261,427. 5 Claims. (Cl. 203—6.)

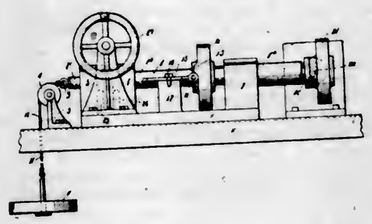
1. A process of removing the tar from the vapors and gases given off in the destructive distillation of wood or coal, which comprises bringing the said vapors into intimate and methodical contact with a phenolic solvent having a higher absorbing and dissolving power for tars than has tar itself, and afterward regenerating the solvent by distillation of the mixture of solvent and tar.

1,351,364. TOILET ARTICLE. STANLEY SEPTIMUS BOOTY, Sutton, England. Filed Feb. 26, 1919. Serial No. 279,461. 1 Claim. (Cl. 132—36.)



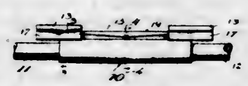
A manicure device comprising a sleeve member formed of rigid material, a prolongation on said sleeve adapted for use in treating the cuticle bordering the nails, a polishing surface and a file member secured to said sleeve.

1,351,365. CAM-CUTTING ATTACHMENT. GEORGE L. BOWER, Greenwood, Mass. Filed June 21, 1918. Serial No. 241,174. 1 Claim. (Cl. 90—13.3.)



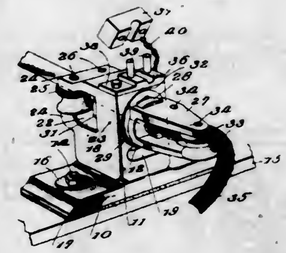
In an attachment of the class described the combination with a support, of a base mounted on said support and having a plurality of longitudinally spaced uprights rising therefrom, said uprights having bearings of different sizes, said bearings increasing successively in size from the upright at one end of the base to that in the other end thereof, a shaft of varying diameters mounted to rotate and slide in said bearings, a master cam fixed to said shaft between two of said uprights, a standard positioned on said base at one side of said shaft, a bar adjustable longitudinally on the top of said standard and having a roller at one end positioned in the path of said cam, means for exerting a yielding pull in one direction on said shaft whereby the master cam is held in yieldable engagement with said roller, and work holding means carried by one end of said shaft.

1,351,366. FEEDER-WIRE SPLICE. NEWTON K. BOWMAN, North Lawrence, Ohio, assignor to The American Mine Door Company, a Corporation of Ohio. Filed Aug. 9, 1917, Serial No. 185,386. Renewed Feb. 18, 1920. Serial No. 359,543. 2 Claims. (Cl. 287—110.)



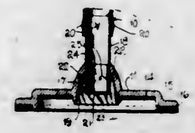
1. A splicing device including a sleeve open along one side and provided along the sides of the opening with clamping jaws tapering in thickness toward their outer ends and undercut to provide locking shoulders tapering in width toward the centers of the jaws, and clamping members each tapering in width from one end to the other and provided at their side edges with downwardly and inwardly inclined clamping flanges for engagement against the outer faces of the clamping jaws and under faces of the shoulders of the jaws.

1,351,367. CABLE-GUIDE. NEWTON K. BOWMAN, North Lawrence, Ohio. Filed Apr. 29, 1918, Serial No. 231,528. Renewed Feb. 18, 1920. Serial No. 359,544. 9 Claims. (Cl. 254—190.)



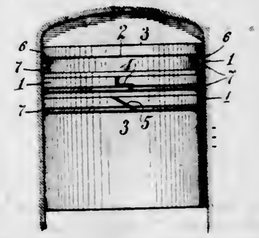
8. A cable guide including a base, a body rotatable thereon, a guide yoke rotatable upon the body at an angle to the axis of rotation of the body, coacting guide rollers carried by the yoke and body respectively, and means for insulating the base with respect to a support therefor.

1,351,368. PIPE CLEANER AND SPRAYER. FRANCIS E. BURNS, Los Angeles, Calif. Filed Aug. 22, 1919. Serial No. 319,146. 7 Claims. (Cl. 4—1.)



1. A spraying head comprising a head proper formed upon one face to provide a circular chamber and bounded by a wall, the center of the head being formed with an outwardly extending, slightly conical, hollow boss entirely open at its inner end, and a tubular member extending through the axis of the boss and closed at its inner end, the tubular member having perforations discharging against the inner face of the boss adjacent the smaller end of the boss.

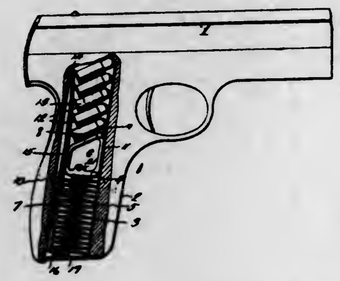
1,351,369. PISTON-RING. FRANK R. CARR, Xenia, Ohio. Filed Dec. 18, 1919. Serial No. 345,707. 1 Claim. (Cl. 74—109.)



The combination with a piston, of a one piece piston ring disconnected on one side, the said ring having an annular groove in the upper face thereof, the inner wall of said groove being parallel to the axis of the ring and the outer wall thereof being tapered outwardly and upwardly from the lower terminal of said inner wall to provide a deflecting surface for the explosive mixture while under compression, and an outer peripheral

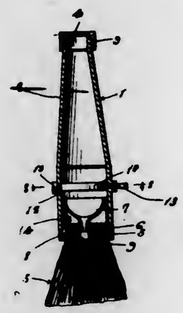
oil groove in said ring inclosed by an upper horizontal wall and a lower outwardly and downwardly tapered wall, said last named wall being terminated above the lower end of the ring, substantially as specified.

1,351,370. MAGAZINE FOR AUTOMATIC PISTOLS. RAY H. CHASE, Alexandria, S. D. Filed Feb. 18, 1920. Serial No. 359,617. 2 Claims. (Cl. 42—7.)



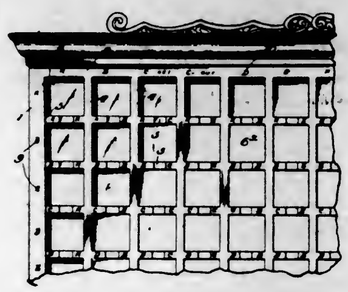
1. A magazine for automatic pistols comprising a casing adapted to be received by a chamber in the handle of the pistol, said casing extending upwardly and inclined forwardly, a slidable follower block disposed in said casing, a spring for forcing said follower block upwardly so that the shells within the magazine will be fed upwardly, the upper face of said follower block being inclined so that the shells will be held in an inclined position in said casing, leaf springs disposed in said casing and engaging the bases of the shells, said leaf springs being spaced from each other and from the wall of the casing so that they will vibrate during firing, thereby causing the breaking of any jam of the shells within the casing.

1,351,371. FOUNTAIN-BRUSH. JOSEPH CHMIELINSKI, Passaic, N. J. Filed Feb. 11, 1919. Serial No. 276,258. 1 Claim. (Cl. 15—49.)



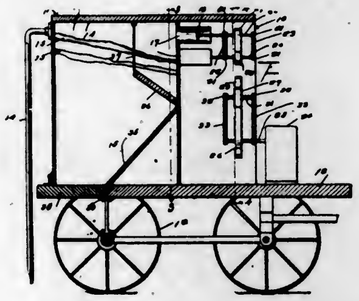
A fountain brush comprising a hollow body having each end open, a brush threaded in one end of said body, a funnel shaped member disposed in the body and having its neck portion positioned in the brush, an annular supporting flange formed on the enlarged end of the funnel shaped member and resting on the brush and against the wall of said body to hold the neck portion within said brush, a valve in said body adjacent the funnel shaped member and adapted to control liquid thereto, and a removable closure for the other end of said body.

1,351,372. GENERAL-DELIVERY POST-OFFICE CABINET. JAMES B. CONINE, Fort Worth, Tex. Filed Feb. 3, 1919. Serial No. 274,663. 1 Claim. (Cl. 211—36.)



In a mail cabinet, indexing means dividing the cabinet into coöperating compartments alining in vertical and horizontal rows the index division means for each compartment bulged to project beyond the surface of the cabinet and having a finger notch providing separate promontories, said index means including main index designations for each vertical row and main index designations for each horizontal row, the main indicia of the vertical and horizontal rows being duplicated on the promontories of each compartment, the respective indicia of each compartment progressing in alphabetical order with respect to succeeding compartments of the same row to form a cabinet having alining vertical and horizontal rows of compartments indexed in alphabetical order.

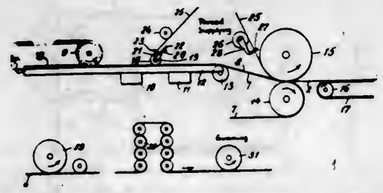
1,351,373. COTTON-PICKER. WILLIAM F. COOPER, New Orleans, La. Filed Apr. 11, 1919. Serial No. 289,309. 6 Claims. (Cl. 302—17.)



1. A cotton picker including, a casing, a plurality of spaced parallel partitions disposed within the casing thereby providing a plurality of compartments, vacuum conveying elements in communication with each of the compartments, vacuum creating elements for each of the compartments, and inclined baffle walls disposed within the compartments.

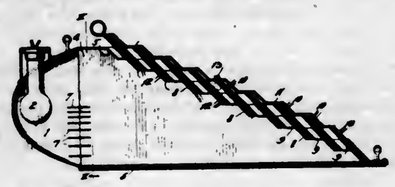
1,351,374. THREAD-REINFORCED-PAPER GUMMED TAPE. CHARLES H. CROWELL, Brooklyn, N. Y. Filed Dec. 1, 1916. Serial No. 134,349. 28 Claims. (Cl. 92—40.)

7. The process of forming thread reinforced adhesive paper which comprises forming a continuous sheet of paper, incorporating with said sheet a substantially parallel series of reinforcing cotton threads and embedding and securing said threads in said sheet of paper by felting or interlocking with the paper fiber so as to be substantially



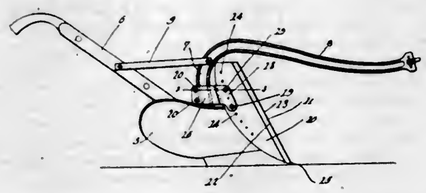
parallel to its edges so that portions of the threads extend through one side of the paper body, and applying an adhesive coating to the sheet.

1,351,375. ELECTRIC-LIGHT FIXTURE. FERNAND E. D'HUMY, Englewood, N. J. Filed Jan. 18, 1919. Serial No. 271,870. 7 Claims. (Cl. 240—1.)



3. A lighting fixture comprising a source of light, a reflector for projecting the rays emitted by the source of light, a plurality of stationary flat reflecting surfaces arranged in stepped relation at an angle to the path of the rays projected by said reflector, and a plurality of sets of reflecting plates independently shiftable to interpose the plates of either set between the stationary reflecting surfaces and the source of light.

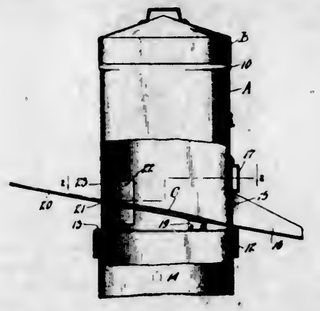
1,351,376. COLTER. ROBERT L. DILLON, Timpson, Tex., assignor of fifty-one per cent. to F. M. Davis, Timpson, Tex. Filed Jan. 3, 1920. Serial No. 349,139. 1 Claim. (Cl. 97—6.)



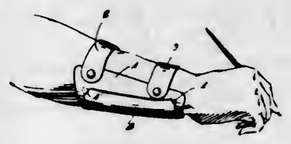
In combination with a plow blade having a curved forward portion and having a stock for supporting the same, a colter having a pointed end and having a knife-like cutting edge, said colter having a curved rear portion and having a plurality of openings formed therein, the openings being disposed in spaced relation with each other and in a line in spaced relation with the curved rear portion, a pair of spaced arms having openings formed at their ends, means for securing the arms to the plow stock, and said openings adapted to register with the openings in the colter, and means extending through the registering openings for securing the colter to the arms.

1,351,377. ASH-SIFTER. THOMAS FRED FITZBERGER, Baltimore, Md. Filed Jan. 13, 1919. Serial No. 270,813. 2 Claims. (Cl. 83—60.)

1. An ash sifter comprising a cylindrical casing, a cover therefor, a downwardly inclined chute located upon one side of the casing and communicating with an opening in the side thereof, a sieve disposed within and extending in an inclined plane substantially in line with said chute entirely across the casing and positioned to discharge at its lower side through the opening and upon the chute, means for supporting said sieve at its periphery within the casing, and a handle attached to said sieve and extending through a segmental slot in said casing opposite said chute for oscillating said sieve.

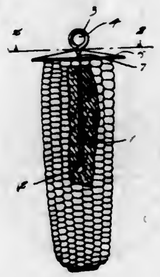


1,351,378. WRIST-BLOTTER. GUSTAV FRANKEL, Seattle, Wash. Filed June 19, 1918. Serial No. 240,800. 2 Claims. (Cl. 120—25.)



1. A blotter to be worn on the wrist, the same comprising an oblong rectangular base of flexible material having diagonal slits in its corners to receive the corners of a blotter and detachably retain it in place, and having integral straps at one side near the ends thereof projecting to unequal distances, and complemental fastenings at the outer ends of the straps and at the opposite side of the base.

1,351,379. CORN-HANGER. CLIFTON ELROY GILLETT, Verdigre, Nebr. Filed Mar. 26, 1919. Serial No. 285,228. 1 Claim. (Cl. 34—26.)



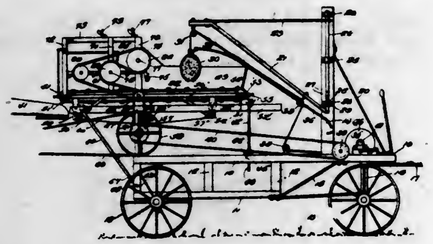
A corn hanger comprising an ear supporting element, and a conical shaped guard having an opening in its apex receiving the supporting element, said guard having a slot extending from the opening through the periphery thereof to give said guard flexibility and said slot being of a width smaller than the diameter of the supporting element.

1,351,380. CHILD'S GARMENT. NETTIE GREEN, Cambridge, and SAUL MATISON, Boston, Mass. Filed Aug. 12, 1918. Serial No. 249,444. 4 Claims. (Cl. 2—145.)



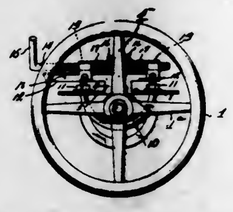
1. In a garment having a waist and bifurcated trunk portion, each provided with a tapering flap extending from the crotch to the upper edge of the garment, said flaps being permanently secured in overlapping relation at the crotch and temporarily secured at the upper edge of the garment.

1,351,381. SELF FEEDING AND PITCHING MACHINE. FRANK HAMILTON, Burlington, Okla. Filed July 2, 1918. Serial No. 243,031. 13 Claims. (Cl. 214—89.)



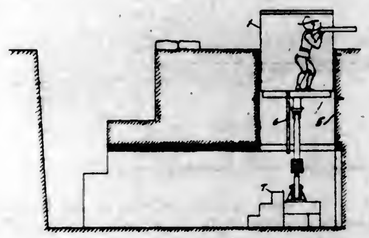
1. In an apparatus of the class described, a receptacle, a conveyer device forming the bottom of said receptacle, a fork device substantially at right angles to the conveyer device, means for moving said fork device vertically and horizontally to move the contents of the receptacle toward the conveyer device, another fork device substantially in parallel relation to the conveyer device, means for moving said last mentioned fork device horizontally and vertically to move the contents of the receptacle longitudinally of the conveyer device.

1,351,382. PLOW-GUIDE-WHEEL HOLDER. GEORGE HAZELMAN, West Brooklyn, Ill. Filed Oct. 31, 1919. Serial No. 334,678. 3 Claims. (Cl. 74—33.)



1. A holder for tractor guide wheels of tractors, said holder comprising a bracket which may be supported in any suitable manner adjacent one side of the wheel, said bracket having rotatably mounted in bearings thereof a transversely disposed bolt, lugs spaced from each other and carried by said bolt and means whereby said lugs may be maintained in engagement with each side of a spoke of the guide wheel or out of engagement therewith.

1,351,383. DISAPPEARING TURRET. SAMUEL E. HITT, Elyria, Ohio. Filed Mar. 27, 1918. Serial No. 224,962. 2 Claims. (Cl. 89—37.)



1. In apparatus for defensive warfare, a manually operated turret for machine gunners consisting of a cylindrical metallic casing embedded in the ground, a cylindrical metallic turret chamber movable within the said casing, counterbalance means for the said turret chamber, a supporting track mounted on the said casing, a carriage to run on the said track, means for preventing relative rotative movement of the turret chamber and carriage, a supporting rod with a rack mounted on the said carriage, a hand wheel and a pinion engaging the said rack mounted within and on the said turret chamber for the purpose of raising and lowering the same, and means for locking the said hand wheel to hold the said turret chamber at any desired elevation, substantially as specified.

1,351,384. PUZZLE. IVAN L. HOFFER, Marcus, Wash. Filed Oct. 11, 1919. Serial No. 329,998. 1 Claim. (Cl. 46—41.)



A puzzle comprising a member having spaced coils and arms extending therefrom and mutually united at their extremities, and a second member having spaced coils and arms extending therefrom and mutually disconnected, the arms of the second mentioned member being of too great a length to permit of their passage between the arms of the first mentioned member and of their extremities past the connection between the connected extremities of the said arms of the first mentioned member in any relative position of the two members when interengaged, the coils of the second mentioned member being initially engaged with one of the arms of the first mentioned member.

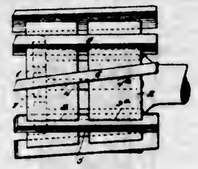
1,351,385. PROCESS FOR MANUFACTURING OF AN ELASTIC IMITATION HEMP. TOMOTAKE HONDA, Ongagun, Japan, assignor to Heijiro Nishimura, Tokyo, Japan. Filed July 3, 1919. Serial No. 308,368. 3 Claims. (Cl. 91—68.)

1. The process for manufacturing elastic imitation hemp from cotton thread or cloth, consisting of first coating the cotton thread or cloth with a size or paste made from the roots of the hydrosme rivieri and then treating the same with tannic acid.

1,351,386. MILLING-CUTTER. WILLIAM ALFRED JAMES, Woonsocket, R. I. Filed Apr. 8, 1918. Serial No. 227,305. 4 Claims. (Cl. 29—105.)

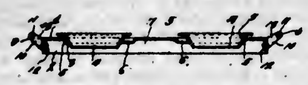
1. A milling tool comprising a pair of relatively axially and rotatably movable members, tool elements mounted

on the members at different angles to the axis thereof, and means for moving the members axially one with re-



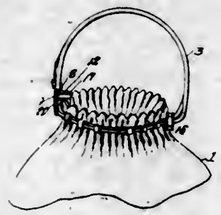
spect to the other, whereby the tool elements cause relative rotation of the members to clamp the elements therein.

1,351,387. PIE-PLATE HOLDER. EOLINE BALL JESSE, Nuttsville, Va. Filed June 30, 1916. Serial No. 106,841. 1 Claim. (Cl. 126—337.)



A pie plate holder formed from a single sheet of material, said holder comprising an enlarged body portion having its edges provided with depending marginal flanges, said body plate having a plurality of pie plate receiving openings, the marginal edges of each pie plate receiving opening having a depending annular inwardly inclined flange, said inclined flange being inclined at substantially the same inclination as the body of the pie plate, said body plate having depressions adjacent the sides of the pie plate opening and disposed at the inner edges of the openings, the pie plate opening flanges terminating at each side of the depression, the depth of the depressions being the same as the depth of the flanges of the pie plate openings, thereby forming an engaging edge adapted to engage the side of the pie plate, said depressions forming means whereby the hand may be placed in a position to grasp the pie plates and remove them from the body plate openings.

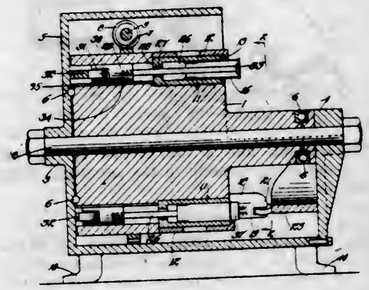
1,351,388. LOCKING DEVICE FOR MAIL POUCHES OR BAGS. JOHN KABACI, Wyano, Pa., assignor of one-half to Charles Hess, Wyano, Pa. Filed Dec. 9, 1919. Serial No. 343,623. 5 Claims. (Cl. 150—23.)



1. In an apparatus of the class described, the combination with a pouch, of a lock secured to said pouch, a catch device secured to said pouch, and a loop on said pouch and extending through said lock, whereby the loop may be drawn through the lock for closing the pouch and then fastened to the catch device for producing a handle on the pouch.

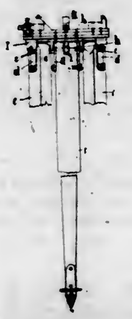
1,351,389. MACHINE FOR RE-FORMING AMMUNITION-SHELL CASINGS. FRANK LEMING, Hingham, Mass. Filed July 24, 1919. Serial No. 312,066. 11 Claims. (Cl. 153—32.)

5. A machine for reforming ammunition shell casings comprising a rotary carrier having mounted therein a die shaped to the contour of the casing in its true form, means for rotating the carrier, a movable presser member which is mounted on said carrier and which is movable into and out of alinement with the die in addition to its movement bodily with the carrier in a rotary path, means which during the rotation of the die carrier causes the said presser member to move inward when in its alined position and



thereby force the casing into the die, if a casing has been properly positioned therefor at the entrance to the die, means for causing the retraction of the presser member from the die, means for turning the presser member out of alinement with the die after it is retracted, and means for again moving the presser member into alinement with the die.

1,351,390. TRIPOD AND LIKE SUPPORT. FRANK MICHAEL LEWIS, Pimlico, London, England. Filed Jan. 4, 1919. Serial No. 269,729. 5 Claims. (Cl. 248—43.)

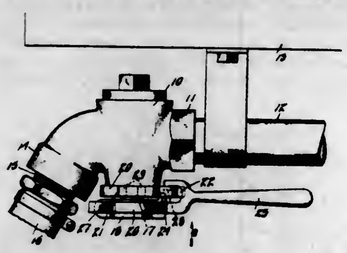


3. A tripod or like support comprising a plurality of legs, each of which is substantially of rectangular section at its upper end, gradually changing to circular section in the middle and tapering off toward the bottom, a fitting supported upon said legs and means for drawing said fitting and said legs firmly into contact so that each leg contacts at four points with said fitting, substantially as described.

1,351,391. SELF-LOCKING ANGLE-COCK. ROBERT E. MCGAHEY, Alexandria, Va. Filed Nov. 15, 1919. Serial No. 338,203. 4 Claims. (Cl. 251—165.)

1. An angle cock comprising a housing, a turning plug, a segmental flange formed upon the housing and provided at either extremity with a stop and having a segmental slot formed in its face, a disk rigidly secured to the turning plug and having a lug fitting and movable in the slot,

a handle member provided with a collar embracing the disk and proportioned to engage against the stops at each



limit of movement, and a lug carried by the handle adapted to engage an opening in the segmental flange at either limit of movement.

1,351,392. RELIEF-MAP AND PROCESS OF MAKING SAME. LOUIS B. MANHEIMER, Washington, D. C., assignor, by mesne assignments, of one-third to Louis B. Manheimer, one-third to Fleming Newbold, and one-third to Frank T. Fuller, Washington, D. C. Filed Aug. 2, 1919. Serial No. 315,013. 61 Claims. (Cl. 35—6.)



FINISHED MAP.

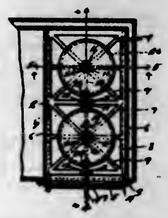
1. A process of making relief maps, consisting of forming a model of a relief map by carving out and building up, forming a metallic die and counter die of the model, molding a matrix to the form of the relief map, transferring to the matrix the written and drawn features of the map which is being copied, flattening the matrix, reproducing the flattened matrix, and molding the reproduction to the relief form.

1,351,393. TRANSMISSION MECHANISM. CHILTON M. MARSHALL, Elton, La., assignor of one-half to R. E. Powell, Jefferson Davis parish, La. Filed Dec. 20, 1918. Serial No. 267,735. 1 Claim. (Cl. 74—59.)



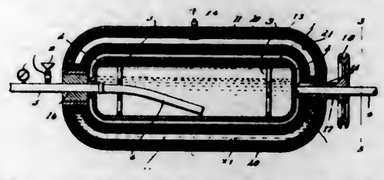
A transmission mechanism, including a yoke, whose arms are formed into extended bearings spaced apart, a sleeve rotatable in each bearing, the inner ends of said sleeves being formed into pinions which are spaced apart, a shaft extending through said sleeves and rotatable independently thereof, an intermediate pinion mounted on said yoke and in mesh with each of the first mentioned pinions, a clutch member slidably mounted upon the shaft between said sleeves, means preventing the relative rotation of said member on said shaft, the inner ends of said sleeves being formed into oppositely facing clutches formed to engage with the corresponding ends of said member alternatively said member being automatically brought into alternative engagement with said sleeve clutches as the direction of the rotation thereof is reversed.

1,351,394. OVEN-SHELF. WILLIAM BAIRD MARTIN, Beloit, Wis. Filed Feb. 11, 1919. Serial No. 276,251. 1 Claim. (Cl. 126—338.)



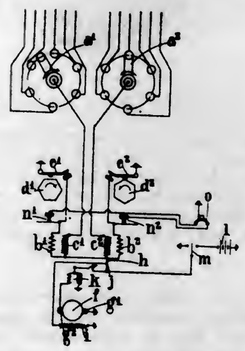
An oven shelf comprising a body member adapted to be supported in an oven, said shelf being provided with a pair of spaced bearings, a shaft rotatably mounted in said bearings adjacent the upper face of the shelf, gears adjustably secured to the shaft, said bearings being provided with sockets located above the shaft, said sockets being adapted to receive pintles of article supporting plates, said adjustable gears being adapted to mesh with gears carried by the article supporting plates and means whereby the shaft may be rotated for simultaneously rotating the article supporting plates.

1,351,395. LIQUID-CONTAINER FOR AEROPLANES. LAUREAT L. MARTINEAU, St. John, N. D. Filed Dec. 18, 1918. Serial No. 267,324. 3 Claims. (Cl. 220—63.)



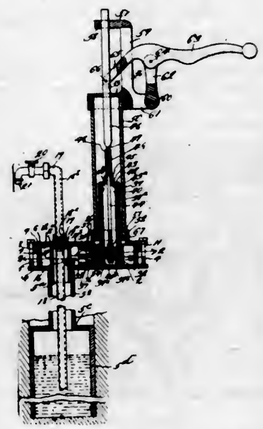
1. The combination of a liquid container, and a revoluble protection member inclosing and spaced from said container; said revoluble protection member comprising inner an douter spaced walls, a valved induction tube in the outer wall, linings at the inner sides of said walls, an inflatable tube disposed between the walls and connected to the induction tube, and liquid cement in said inflatable tube.

1,351,396. IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. ALBERT HENRY MIDGLEY, Acton Vale, England, assignor of one-half to C. A. Vandervell & Company Limited, Acton Vale, England. Filed Feb. 6, 1919. Serial No. 275,360. 3 Claims. (Cl. 123—148.)



1. An ignition system for internal combustion engines comprising in the combination of an ignition coil and circuit breaker, with a battery for supplying current to said ignition coil at starting and with a dynamo for supplying current to the ignition coil after the engine has been started, an electrical star connection between the ignition coil with its circuit breaker, the dynamo and the battery and an electrical delta connnection between the free ends of such star connection, the part of the star connection which includes the battery also comprising a connecting wire between the common point of the star connection and the battery, and a switch between the connecting wire and the battery, said switch having a movable contact arm and two stationary contacts, the movable contact arm being connected to the said connecting wire, and one of the stationary contacts being connected to the battery, while the second stationary contact of the switch is so connected as to be capable of short-circuiting both the dynamo and the ignition coil with its circuit breaker when the contact arm is in contact therewith, as and for the purpose set forth.

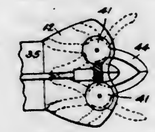
1,351,397. AIR FORCE-PUMP. JOHN M. MISSOURI, Montrose, Minn. Filed Sept. 12, 1918. Serial No. 253,770. 1 Claim. (Cl. 103—8.)



A well pump comprising a casing, said casing comprising a base adapted to be secured to a support, flanges rising upwardly from the base, a flanged cover for said casing secured to the base flanges, a downwardly extending annular flange carried by the base, a casing secured to said downwardly extending flange and having its lower end connected to a well casing, a vertically disposed pipe disposed in said downwardly extending casing and having its lower end disposed in the well casing, a sleeve telescopically engaging the pipe and registering with the opening formed by the downwardly extending threaded flange, said sleeve being of greater diameter than the pipe, an aperture in the sleeve and in communication with the chamber of the casing, the upper end of the sleeve surrounding the pipe being provided with a shoulder adapted to be engaged by the casing cover, the sleeve above the shoulder being interiorly threaded for the reception of the upper threaded end of the pipe and also for the reception of an upwardly extending discharge pipe, and means for forcing air into the casing chamber, through the sleeve aperture and downwardly extending casing to the well casing for lifting the water from the well casing upwardly through the pipe and discharge pipe.

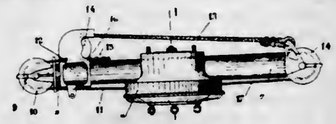
1,351,398. COTTON-HARVESTER. JOE NEWMAN, Dallas, Tex., assignor of one-half to John L. Boyd, Dallas, Tex. Filed Feb. 8, 1918. Serial No. 216,043. 2 Claims. (Cl. 56—32.)

2. In a cotton picker, the combination with a flexible suction tube having an enlarged head at its inlet end, a pair of picker shafts journaled in said head and having worm gears on one end, a worm between and engaging said gears, and a flexible shaft for driving said worm; of a series of rubber picker fingers carried by said shafts,



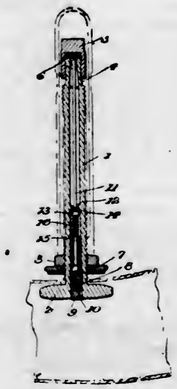
arranged successively and progressively along the same and disposed in pairs whose members are respectively opposite each other and of sufficient length to make contact and be deflected by such contact, for the purpose set forth.

1,351,399. STARTING APPARATUS FOR USE WITH INTERNAL-COMBUSTION ENGINES AND OTHER PURPOSES. ANTOINE ISIDORE ODIER, Puteaux, France. Filed July 16, 1918. Serial No. 245,214. 4 Claims. (Cl. 74—54.)



1. A starting apparatus comprising in combination a cylinder, a piston member in the cylinder arranged to be worked by pressure fluid, a pulley mounted on the piston member, another pulley mounted for turning the engine shaft, a spring attached to a fixed part and a rope attached at one end to a fixed part adjacent the cylinder and at the other end to the spring and adapted to pass over the pulley mounted on the piston member and around the other pulley for turning the engine shaft.

1,351,400. TIRE-VALVE. BERT PANGRAZIO, Scottsville, N. Y. Filed June 26, 1919. Serial No. 306,893. 1 Claim. (Cl. 152—12.)



A tire valve comprising a body having a bore screw threaded at one end and provided intermediate its ends with an integral annular valve seat, a valve coöperating with said seat, a pin extending through and guided by said annular valve seat and connected intermediate its ends to said valve, a collar threaded in the inner portion of said body and slidably receiving and guiding said pin, said collar being provided with a valve seat, a ball valve

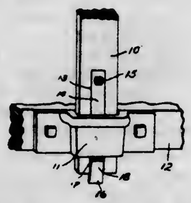
engaging said second named valve seat, a guiding member threaded into said body between said first and second named valve seats, and a coil spring confined between said guiding member and said first named valve seat.

1,351,401. POWER-TRANSMISSION GEAR-WHEEL. CHARLES ALGERNON PARSONS, Newcastle-upon-Tyne, and STANLEY SMITH COOK, Wallsend, England; said Cook assignor to said Parsons. Filed May 15, 1918. Serial No. 234,827. 2 Claims. (Cl. 74—41.)



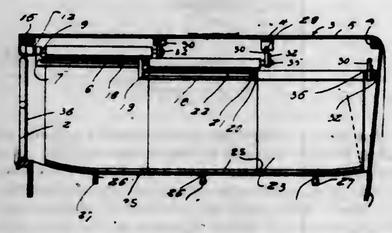
1. A pinion or gear wheel having teeth of substantially the form to give uniform distribution of force across the face of the teeth at a given load to compensate for torsional deflection and the deflection due to bending, said gear having its teeth varying progressively across the gear face in relation to the axial center of said gear, substantially as described.

1,351,402. STANDARD-LOCK. JOHN W. ROBERTS, Oklahoma, Okla., assignor of one-third to Raleigh L. Webster and one-third to William P. Cornett, Oklahoma, Okla. Filed Oct. 28, 1919. Serial No. 333,945. 1 Claim. (Cl. 280—147.)



In combination with a wagon standard and the keeper in which it is seated, of a spring tongue secured at one end to and extending longitudinally of the standard and projecting at its free end beyond the extremity of the standard to form an accessible finger hold or grip below the lower end of the keeper, and provided at an intermediate point adjacent to its free end with an offset forming a shoulder for engagement with the lower edge of the keeper, said tongue being rearwardly or inwardly deflected from said shoulder to the extended grip or finger hold to facilitate insertion of the tongue carrying standard into the seat of said keeper.

1,351,403. ROLLER-CURTAIN FOR AUTOMOBILES. PETER H. SAGER, Marianna, Fla. Filed Sept. 3, 1918. Serial No. 252,406. 4 Claims. (Cl. 296—143.)

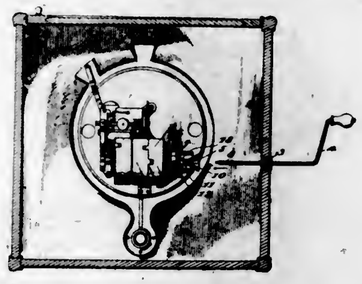


4. A device of the character set forth including an automobile body and a top, a roller pivotally connected to the top, a frame journaled to said roller, a second frame slidably connected to the first-named frame, a roller journaled to the second-named frame, a roller slidably and rotatably connected to the second-named frame, curtains for said rollers, plates pivoted to the top at spaced intervals and having openings to receive the free ends of the rollers, locking plates having keyhole slots carried by said plates and adapted to secure the free ends of the rollers of the first-named plates against endwise movement, and means securing the curtains to the body.

1,351,404. BABBITT-METAL PRODUCT AND PROCESS OF MAKING SAME. LOUIS SAPERY, Brooklyn, N. Y. Filed May 21, 1920. Serial No. 383,315. 2 Claims. (Cl. 75—1.)

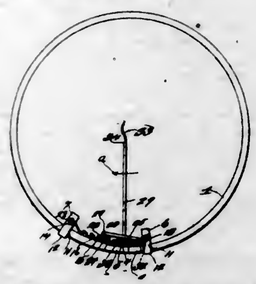
1. The process of protecting Babbitt metal from oxidation while being melted, which consists in coating the Babbitt metal, prior to melting the same, with a thin film of another metal which is without injurious action on the bearing qualities of the Babbitt metal and which has a melting point that is substantially higher than that of the Babbitt metal.

1,351,405. WINDING MECHANISM FOR SPRING-MOTORS. JOHN J. SCULLY, Bridgeport, Conn., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed July 29, 1918. Serial No. 247,282. 3 Claims. (Cl. 74—33.)



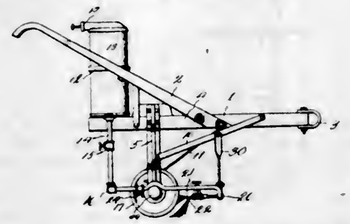
1. In combination, a spring motor having a winding arbor, a sleeve telescoped over said arbor and secured thereto, a wall spaced from said arbor and having an opening therein, a winding shaft projecting through said opening, and a funnel-shaped member carried by said sleeve and facing said opening.

1,351,406. RIM CONTRACTOR OR EXPANDER. JOHN W. SHUTE, Bishop, Calif. Filed Nov. 27, 1918. Serial No. 264,407. 1 Claim. (Cl. 157—1.)



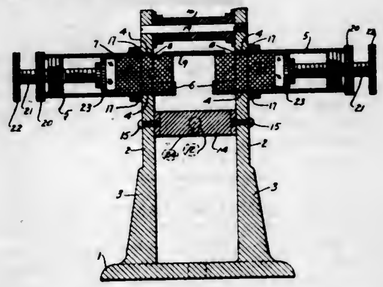
In a device of the character described, comprising clamping jaws adapted to engage the adjacent ends of a demountable rim, said clamping jaws being provided with transversely disposed bolts, one of said bolts being provided with a pivoted toothed plate extending toward the adjacent end of the demountable rim, the other clamping jaws being provided with a transversely disposed pin, a bail pivoted to the last named clamping jaws and overlying the pivoted toothed plate, and a second bail pivoted to the last mentioned jaws and overlying the toothed plate at a point beyond the overlying portion of the first mentioned pivoted bail.

1,351,407. INSECT-DESTROYER. DANIEL DARLEY SMITH, Valdosta, Ga. Filed Dec. 16, 1919. Serial No. 345,270. 5 Claims. (Cl. 43—144.)



1. In an insect destroyer, the combination with a frame, of a pair of rollers in axial alinement with each other and rotatably mounted, said rollers being adapted to be moved over the ground between the rows of plants, a series of burners located within and without the rollers, said burners within the rollers projecting a flame against the inner periphery of the rollers at points diametrically opposite to the point of contact of the flame with the rollers located outside of the rollers and means for supplying fuel to the burners.

1,351,408. MACHINE FOR APPLYING EMOLLIENT TO MOTION-PICTURE FILMS. PAUL WERNER, St. Louis, Mo., assignor to Werner Film-Protector Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 4, 1919. Serial No. 315,242. 17 Claims. (Cl. 91—36.)

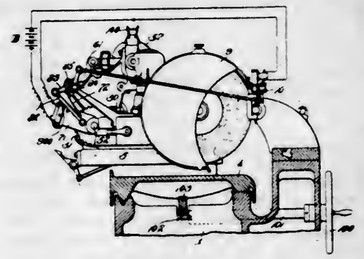


8. In a machine of the character described, a frame, a tube supported by the said frame and fastened thereto, an emollient contained within the said tube, and a bayonet clasp for attaching the said tube to the said frame.

14. A film-softening machine including material-holding tubes formed with end openings including a portion of the side and end of said tube.

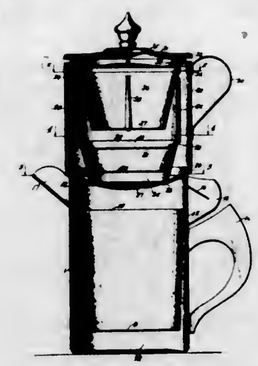
1,351,409. GRINDING-MACHINE. PHILIP S. ARNOLD, Highland Park, Mich., assignor of one-fifth to Charles E. Wisner, Detroit, Mich. Filed Apr. 16, 1917. Serial No. 162,278. 15 Claims. (Cl. 51—4.)

1. In a grinding machine, means for grinding a piece of work to reduce the diameter thereof, electrically controlled means adapted to cause cessation of the grinding operation, and a calipering device having parts riding in yieldable contact with diametrically opposite sides of the



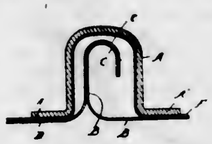
work adapted to close the circuit for said electrically controlled means upon attaining a predetermined distance apart.

1,351,410. COFFEE-POT. WILLIAM H. BRUNING, Evansville, Ind. Filed May 31, 1918. Serial No. 237,451. 12 Claims. (Cl. 53—3.)



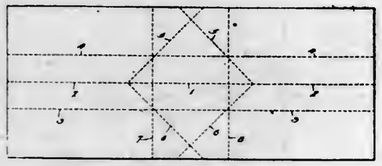
1. In a coffee pot, a dripper adapted to be superposed on a coffee pot, said dripper having spaced concentric walls forming an air space, the outer wall having an external shoulder, and the inner wall having a reduced lower portion provided with a removable filtering screen at its bottom and a coffee receptacle having a sieve bottom and arranged in the inner wall with its bottom above the filtering screen thereof.

1,351,411. CAR-ROOF. RICHARD WEBB BURNETT, Albany, N. Y. Filed Feb. 9, 1918. Serial No. 216,177. 7 Claims. (Cl. 108—5.)



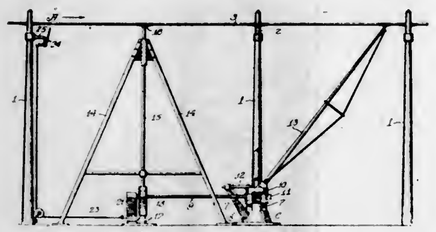
1. In a car roof, the combination with an inverted channel-shaped member, of load sustaining roofing sheets supported at spaced points and arranged beneath said inverted channel-shaped member and having upstanding flanges adjacent to each other, the upper portions of said flanges being return-bent in the same direction, nested and secured to each other at approximately the free edges.

1,351,412. COLLAPSIBLE PAPER CUP. PAUL H. CARR, Washington, D. C. Filed July 11, 1919. Serial No. 310,229. 4 Claims. (Cl. 229—53.)



1. A collapsible drinking-cup made from a rectangular blank which is neither cut nor notched, but which has three longitudinal scores extending more or less centrally thereof and throughout its entire length, two transverse scores, and four diagonal scores at the center having the form of a square set diagonally with respect to the blank, the central score between the square and the end of the blank forming an out-fold, and the same central score within the square an infold when the cup is collapsed, and the edges of the blank overlapped and secured together to form the body of the cup.

1,351,413. AUTOMATIC DELIVERY SYSTEM. ELZA T. S. CLIFFE, Mansfield, Ohio. Filed Jan. 10, 1919. Serial No. 270,456. 4 Claims. (Cl. 104—88.)



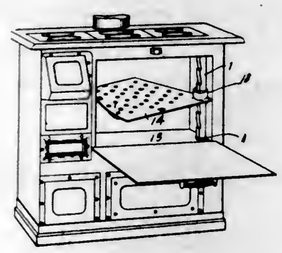
1. In a delivery system, the combination of an overhead track, a flexible switch section, means below said track adapted for flexing said switch section, cars suspended from said track, motive power for said cars, and means movable with said car adapted to actuate said switch flexing means.

1,351,414. SHOE. CHARLES P. COSCIA, Pittsburgh, Pa. Filed Dec. 20, 1919. Serial No. 346,365. 5 Claims. (Cl. 36—1.)



1. As a new article of manufacture a unitary front half of a shoe comprising a vamp, a welt, an in-sole and an outer-sole, said in-sole secured to said vamp and projecting rearwardly therefrom, said vamp, welt and outer-sole secured together and said welt and outer-sole projecting rearwardly from said vamp, said rearwardly projecting portion of the in-sole disconnected from the rearwardly extending portion of the welt, and said rearwardly extending portion of the welt disconnected from the rearwardly extending portion of the outer-sole.

1,351,415. OVEN-SHELF. JOHN W. COUMERILH, Mullan, Idaho. Filed May 28, 1919. Serial No. 300,275. 1 Claim. (Cl. 126—337.)



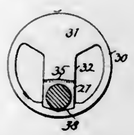
The combination with an oven having upper and lower plates, of a post fashioned on one side with spaced shoulders and inclined faces, a non-rotatable shelf on the post formed with a supporting thimble adapted to co-act with the inclined faces on the post and rest on a shoulder, alined bearing rings secured in said plates, bearing pins on the post operative in said rings, and one of said pins having spring connection with the post for the purpose specified.

1,351,416. FUSE FOR PROJECTILES. JOHN W. DARLEY, Jr., Baltimore, Md. Filed May 12, 1915. Serial No. 27,616. 16 Claims. (Cl. 102—39.)



15. The combination with a projectile revolving on an axis at right angles to the trajectory, of an explosive charge contained in said projectile, and a fuse comprising a detonating cap and means for firing said cap when the speed of rotation of said projectile diminishes below a predetermined speed.

1,351,417. COUNTERBALANCED CRANK-SHAFT. CHARLES C. DODGE, Cleveland, Ohio, assignor to The Park Drop Forge Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 9, 1918. Serial No. 233,482. Renewed Nov. 24, 1919. Serial No. 340,306. 5 Claims. (Cl. 74—5.)



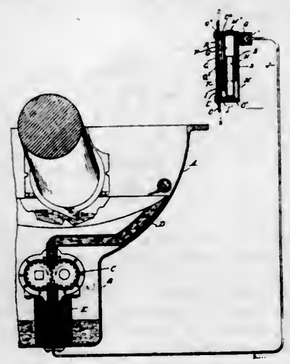
1. The combination with a crank shaft, of a counterbalancing ring applied to an offcenter part of said crank shaft in such position that the axis of the ring shall be coincident with the axis of the shaft,—said ring having an integral counterweighting arm which extends from one side of the ring toward the axis thereof, the end of said arm being in engagement with an offcenter part of the crank shaft, and the engaging surfaces of said arm and crank shaft being interlocked to prevent relative movement of the ring and shaft, and a portion only of the thin part of said ring being also in engagement with and being permanently secured to an adjacent part of the crank shaft.

1,351,418. RIBBON OR TAPE NEEDLE. WALTER C. ELLSWORTH, New York, N. Y. Filed Nov. 21, 1919. Serial No. 339,770. 7 Claims. (Cl. 223—38.)



1. A ribbon or tape needle consisting of a pair of resilient blades secured together and provided with interengaging teeth being turned out of the planes of the blades to oppose each other and at one end of said needle, said teeth normally held in engagement with each other by the resiliency of said blades.

1,351,419. GAGE. JAMES ERSKINE, Flint, Mich. Filed Mar. 23, 1918. Serial No. 224,135. 11 Claims. (Cl. 116—117.)



7. A gage, comprising a casing, a cylinder arranged within said casing and open at its lower end, a piston in said cylinder, an indicator connected to the lower end of said piston, a suction conduit connected with said cylinder for lifting said piston and indicator and a stop for normally arresting upward movement of said piston and indicator, yieldable upon abnormal suction to permit further upward movement of the indicator.

1,351,420. UNIVERSAL SHAFT-COUPLING. HARRY R. GEER, Johnstown, Pa. Filed Dec. 10, 1919. Serial No. 343,699. 5 Claims. (Cl. 64—91.)



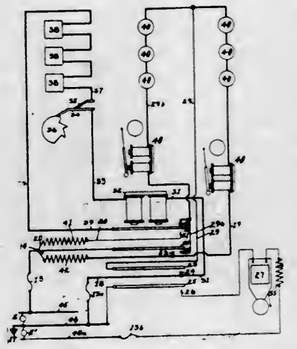
1. In a universal shaft coupling, a shaft, a coupling head thereon provided with a transverse cylindrical recess, opposed slippers, each provided with a substantially plane face and an opposite face of convex cylindrical form adapted to slidably engage the interior surface of said recess, a second shaft provided with a flattened end adapted to slidably and pivotally engage said slippers between the plane faces thereof, a flanged cylindrical coupling sleeve secured to said coupling head thereby retaining the parts of the coupling, notches in the flange of said coupling sleeve, and keepers spanning said notches whereby said flange is adapted to retain lubricant.

1,351,421. BOWLING-PIN. EPHRAIM P. GRIGNON, Appleton, Wis. Filed Oct. 8, 1919. Serial No. 329,289. 9 Claims. (Cl. 46—4.)



1. As an article of manufacture, a solid bowling pin consisting of a plurality of substantially V-shaped segments secured together to form a unitary structure, the apex of said segments being on a straight perpendicular line.

1,351,422. ELECTRIC SIGNALING SYSTEM. SIMON B. HESS, Jamaica, N. Y. Filed Sept. 19, 1916. Serial No. 121,036. 14 Claims. (Cl. 177—360.)

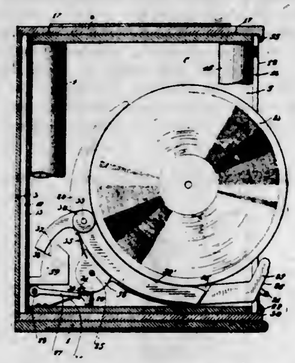


14. An electric signaling system comprising a normally grounded source of energy, a bell loop, a resistance, a station loop, an electromagnet therein, a trouble signal, and means controlled by said magnet for connecting said loops and said resistance in series with each other and to the source of energy and upon the occurrence of a break or a ground in the station loop, a ground in the bell loop or a break in the bell loop for actuating said trouble signal to produce different trouble indications and upon de-energization of said magnet for short-circuiting said resistance and for connecting said loops in parallel with each other and to the source of energy and actuating said trouble signal.

1,351,423. FILING-CABINET WITH LOCKING-COMPARTMENTS. MILLER REESE HUTCHISON, West Orange, N. J., assignor to Miller Reese Hutchison, Inc., a Corporation of New Jersey. Filed June 17, 1919. Serial No. 304,788. 24 Claims. (Cl. 211—16.)

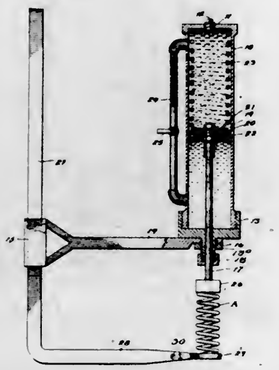
1. In a filing cabinet for phonograph records, in combination, a plurality of compartments each adapted to have a record locked therein, means for simultaneously

unlocking a plurality of said records, and means for permitting removal of but one of said unlocked records.



2. In a filing cabinet for phonograph records, in combination, a plurality of compartments each adapted to have a record locked therein, means for simultaneously unlocking all said records, and means for permitting access to any one selected compartment for record removal, while maintaining the remaining compartments inaccessible.

1,351,424. VALVE-SPRING COMPRESSOR. FRANK E. JENKINS, Medford, Oreg. Filed July 17, 1919. Serial No. 311,480. 4 Claims. (Cl. 29—87.1)



3. A device of the character described comprising a liquid containing cylinder provided with a valve controlled by-pass communicating with the ends thereof, a spring pressed plunger slidable within said cylinder and provided with check valves, a plunger rod connected with said plunger and projecting beyond one end of said cylinder, and a rod slidable with respect to said cylinder and having a portion cooperating with the projecting end of said plunger rod whereby both ends of a spring to be compressed may be engaged.

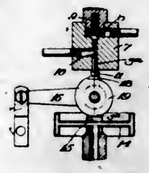
1,351,425. PNEUMATIC SHOVEL. ALONZO W. KANEY, Chicago, Ill., assignor of one-third to Robert E. L. Janney, Chicago, Ill. Filed Dec. 21, 1917. Serial No. 208,203. 2 Claims. (Cl. 294—49.)

1. A pneumatic shovel comprising a blade, a shank for said blade, a power driven pneumatic hammer mounted on the upper end of the shank in alinement therewith and having impact means to engage the end of the shank, and a grip on the upper end of the hammer, said shank, hammer and grip constituting the handle of the shovel.



2. A pneumatic shovel comprising a blade, a shank for said blade, a pneumatic hammer mounted on the upper end of the shank and comprising power driven impact means to engage the end of the shank, a grip on the upper end of the hammer, and a stirrup secured to the hammer and arranged in adjacent relation to the blade.

1,351,426. VALVE MECHANISM. GEORGE KARST, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Aug. 9, 1916. Serial No. 113,897. 3 Claims. (Cl. 236—86.)



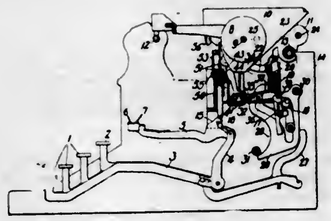
1. In a valve mechanism, the combination with a main valve, of a fluid pressure supply controlling the main valve, a pipe for said fluid pressure, a secondary valve governing the fluid pressure within said pipe provided with a valve stem, an operating diaphragm for the secondary valve having its central portion substantially in alinement with said valve stem, and an operative connection between said diaphragm and valve stem comprising a pivotally mounted arm having thereon a fixed part and an adjustable part, one of said parts engaging said valve stem and the other said diaphragm.

1,351,427. HAIR-DRESSING ATTACHMENT. VERONIKA KRASMAUSKIS, Chicago, Ill. Filed Mar. 1, 1920. Serial No. 362,225. 1 Claim. (Cl. 132—23.)



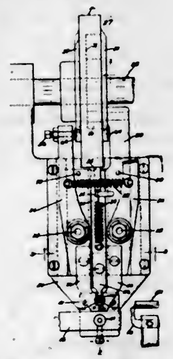
A hair dressing attachment comprising hair switches, a wire extending from the end of each switch, and clasp members at the ends of said wires for securing them together, the wires when secured together forming a support across the head for said switches to hold in place on the head side puffs or other hair dressing forms made up from the switches.

1,351,428. TYPEWRITING-MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 17, 1919. Serial No. 271,568. 19 Claims. (Cl. 197—187.)



1. In a typewriting machine, the combination with a platen carriage shiftable between upper and lower-case positions, and a supporting roller on said carriage, of a key-actuated shift frame, a rail on which said roller rests, rail-carrying arms pivoted on said shift frame and provided with slots, and fixed pins projecting into said slots.

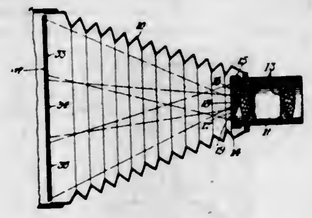
1,351,429. MECHANISM FOR FORMING AND ASSEMBLING SNAP-FASTENER SPRINGS. ARTHUR J. LEWIS, Stratford, Conn., assignor to The Baird Machine Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 5, 1916. Serial No. 113,358. 28 Claims. (Cl. 79—3.)



1. Mechanism for forming and assembling springs comprising a form, jaws, means for causing the jaws to first move relatively to the form to bend a blank of wire over the form, and then close and clasp the blank about the form, a forming punch which completes the formation of the spring, means for moving the jaws carrying the completed spring to the assembling position, a holder for carrying spring receiving articles to the assembling position, and an assembling punch whereby springs are removed from the jaws and assembled in articles in the holder.

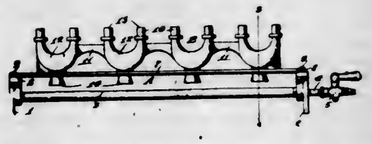
1,351,430. MULTIPLE-IMAGE PHOTOGRAPHY. NAHUM E. LUBOSHEY, Harrow, England. Filed Dec. 22, 1916. Serial No. 138,462. 5 Claims. (Cl. 88—1.)

1. A camera having a single objective and a light refracting prism presenting two intersecting faces at equal and opposite angles to the axis of the objective and each partly covering the light aperture of the objective and at



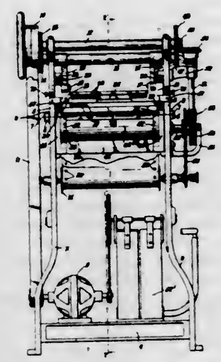
the same side of a chord of said aperture, the portion at the opposite side of the chord being uncovered.

1,351,431. GAS-BURNER. JOHN T. MASTERSON, Huntington, W. Va. Filed July 10, 1919. Serial No. 309,820. 1 Claim. (Cl. 158—106.)



A gas burner comprising a longitudinally extending pipe member having longitudinally spaced port openings formed therein, a valved inlet connection disposed at one end of said member and the opposite end of said member being substantially closed, a burner structure mounted above said pipe member, said structure comprising a series of substantially U shaped outlets having enlarged central portions and relatively reduced outlet portions, and a plurality of projections depending from said burner structure, said projections being provided with a plurality of substantially funnel shaped ports, the latter having their lower extremities disposed immediately above and in registration with said member ports, and the upper restricted ends of said projecting ports terminating within the centrally enlarged portions of said outlets.

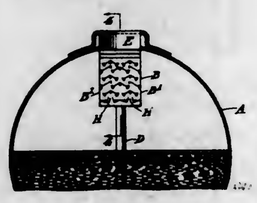
1,351,432. MUSIC-RECORDER. PHILIP J. MEADE, Summit, N. J. Filed Mar. 27, 1919. Serial No. 285,496. 8 Claims. (Cl. 164—113.)



1. In a music recorder, the combination of a plurality of levers, punches pivotally connected with said levers to extend at an angle thereto, means constituting fulcrums for said levers, guides for said punches, means arranged

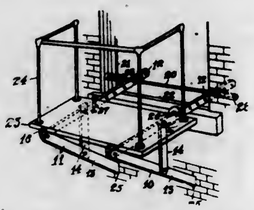
to constantly oscillate said levers about their fulcrums, said means having loose connections with said levers at points distant from said fulcrums permitting the levers to have endwise play in respect to said means, and means for shifting any desired one of said levers when a note is to be recorded.

1,351,433. STEAM-SEPARATOR. JOSEPH J. NELIS, Brooklyn, N. Y. Filed Dec. 31, 1919. Serial No. 348,614. 7 Claims. (Cl. 183—75.)



1. A steam separator consisting of a chamber adapted to be secured in the steam space of a boiler and having openings for the admission of steam at its bottom and an opening for the delivery of steam at its top, in combination with a system of staggered baffle plates extending from end to end of the chamber and formed with water collecting gutters along their edges which gutters extend through an end wall of the chamber, a closed chamber into which said gutters communicate and a drain pipe leading from said chamber to a point below the water level of the boiler.

351,434. WINDOW-PLATFORM. DAN NEWTON, Jamestown, N. Y., assignor of one-half to Charles E. Brink, Jamestown, N. Y. Filed Mar. 29, 1920. Serial No. 369,794. 1 Claim. (Cl. 304—27.)



A window platform including a pair of independent and freely adjustable bars each formed to abut the respective sides of the window frame and having a series of openings in their inner end portions and having their outer ends enlarged and extending upwardly to form stop shoulders, braces for the bars connected thereto and formed to engage the wall, a platform member seated on the tops of the bars, and engaged at the front side thereof with the stop shoulders, a transverse rod passed through two of the openings and engageable with the window frame, and bodily removable clamps arranged along the sides of the bars and having parts engaged with the top face of the platform member and parts adjustably engageable with the under sides of the bars, the clamps being disposed between the inner side edge of the platform member and the window and acting to hold the platform member down onto the tops of the bars and adjustably against the stop shoulders.

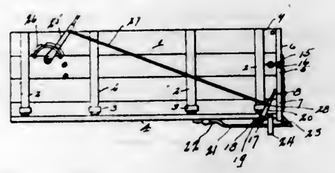
1,351,435. JOINT FOR USE IN CORRUGATED-METAL CONSTRUCTION. PETER NORMAN NISSEN, London, England. Filed Dec. 6, 1917. Serial No. 205,861. 2 Claims. (Cl. 189—2.)

1. A device for joining sheets of corrugated material, comprising a pair of strips of material, each of said strips being corrugated similarly to the corrugations of the sheets to be joined, and means for securing said strips



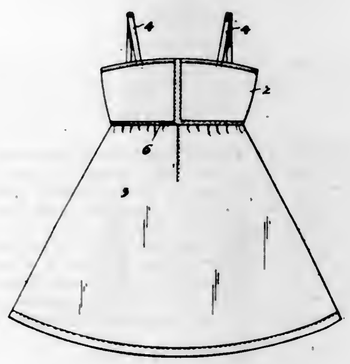
together on opposite sides of the sheets to be joined, whereby said strips are caused to contact with said sheets, throughout the length and breadth of said strips.

1,351,436. END-GATE. HANS P. OLSEN, Spokane, Wash. Filed Mar. 15, 1919. Serial No. 282,908. 1 Claim. (Cl. 296—55.)



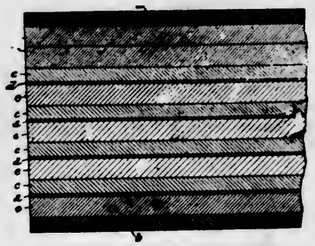
The combination with a vehicle body, of an end gate having a detachable top section and a horizontally hinged lower section a spring latch on the body to retain the hinged section, a shaft journaled beneath the body having a cam member engaging the latch to depress it, a rear lever arm on said shaft, a front lever, and a connecting rod between said lever arm and lever, for the purpose described.

1,351,437. BRASSIÈRE AND CHEMISE. RUTH BLOCH OPPENHEIMER, New Rochelle, N. Y. Filed Sept. 27, 1919. Serial No. 326,857. 1 Claim. (Cl. 2—145.)



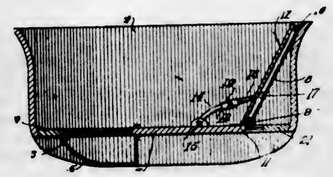
A combined under garment which consists of a brassière with arm straps, a back opening and a bottom seam and a chemise secured to said brassière by said seam.

1,351,438. COMPOSITE CAP OR CLOSURE. HERBERT DODGE PEASE, Richmond Hill, and Wallace Patten Cohoe, Riverdale, N. Y., assignors to The Sanseal Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 23, 1917. Serial No. 187,747. 12 Claims. (Cl. 154—45.5.)



1. A cap or closure for bottles and other receptacles, comprising as an element of structure a layer made up of a preponderating bulk of resinous compound and mineral filler associated with a reinforcement of fiber; substantially as described.

1,351,439. BABY-CARRIAGE. HARRY PERLMUTTER, Brooklyn, N. Y. Filed Nov. 20, 1918. Serial No. 263,424. 5 Claims. (Cl. 296—63.)



1. A carriage body having a sliding seat with a drop-back hinged thereto, and link connections between the drop-back and fixed portions of the carriage body, the latter being forward of the hinged connection and between the back and seat, all of the parts being within the carriage body.

1,351,440. SAW AND METHOD AND MEANS OF HARDENING THE SAME. REINHART W. PITTMAN, New York, N. Y., assignor, by mesne assignments, to Henry C. Pittman, Hackensack, N. J. Filed Nov. 30, 1917. Serial No. 204,482. 7 Claims. (Cl. 148—13.)



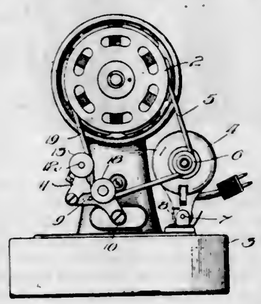
1. The improved method of tempering the teeth of a plurality of saw blades simultaneously, which consists in arranging a plurality of blades in juxtaposed relation with the back edge of one blade alternating with a tooth portion of adjacent blades with the toothed zone of the blades projecting beyond the back edge of adjacent blades to expose the whole surface of the toothed zone of the blades, and then heat treating and cooling the blades while in such assembled position.

1,351,441. ABSORBENT-BANDAGE PACKAGE. EDMUND MORSE POND, Rutland, Vt. Filed Jan. 3, 1919. Serial No. 269,469. 11 Claims. (Cl. 206—63.2.)



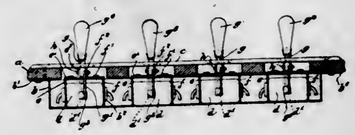
1. An absorbent bandage package which comprises in combination a cylindrical container, a central tube, a bandage wrapped in spiral form about said tube, and means for distributing liquid radially from the lower end of the tube along the bottom of the container in contact with the lower edge of the rolled bandage.

1,351,442. BOBBIN-WINDER FOR MOTOR-DRIVEN SEWING-MACHINES. GEORGE H. RIDDELL, Buffalo, N. Y., assignor to Domestic Sewing Machine Co., Inc., Buffalo, N. Y., a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,619. 3 Claims. (Cl. 242—20.)



1. The combination with a sewing machine head, of a motor arranged behind the head, a driving belt between the motor and the head, a bobbin winder arranged at the front of the head and having a winder pulley, and a guide associated with said bobbin winder and engaging with said belt to deflect the latter into engagement with said winder pulley when the latter is in its winding position.

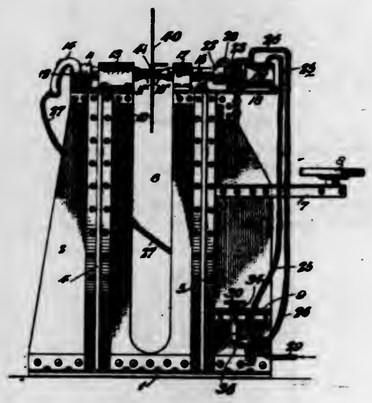
1,351,443. CONTROL-SWITCH FOR CINEMATOGRAPHIC TARGETS. WILLIAM P. ROBERTSON, New York, N. Y., assignor to Lydia B. Koch, New York, N. Y. Filed June 7, 1919. Serial No. 302,530. 5 Claims. (Cl. 247—13.)



1. A switch control for cinematographic targets embodying therein a housing containing a plurality of independent

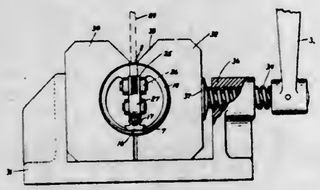
switch mechanisms each embodying therein a casing and a slidable switch actuating member mounted therein and projecting through opposite sides thereof, forked retaining members straddling said casings respectively and detachably connected with said housing, and forked actuating levers pivotally mounted between said forked members repsectively with the arms thereof arranged on opposite sides of each of said casings in the operative relation to the switch actuating member carried thereby, whereby each of said casings is firmly held in relation to said housing and any of said casings may be removed from said housing independently of the others.

1,351,444. DOUBLE-RIVETING MACHINE. WILLIAM LINDSAY SIMPSON, San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa., a Corporation of Delaware. Filed Dec. 31, 1918. Serial No. 269,084. 26 Claims. (Cl. 78—52.)



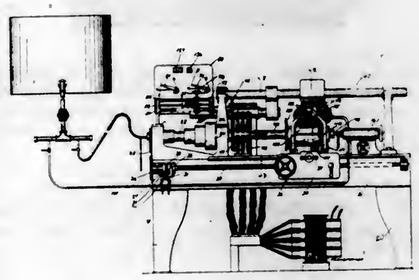
26. In a double riveter, a stationary riveter, means for supporting it in fixed position, an adjustable riveter in alinement with said stationary riveter, means for supporting said adjustable riveter and for guiding it in its movements, a fluid supply to said riveter, controlling means for said fluid supply for actuating said adjustable riveter toward or away from said fixed riveter and a separate controlling means for simultaneously admitting motive fluid to both riveters for actuating them in unison.

1,351,445. MEANS FOR HOLDING FORMED METAL PIECES WHILE THEY ARE BEING ELECTRICALLY WELDED. HERBERT M. SMITH, Great Barrington, Mass., assignor to Stanley Insulating Company, Great Barrington, Mass., a Corporation of Maine. Filed Sept. 30, 1918. Serial No. 256,282. 7 Claims. (Cl. 219—6.)



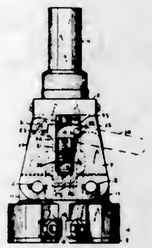
1. A means for holding formed metal pieces while being electrically welded, including an expansible and contractible mandrel, which in its expanded position assumes the exact desired internal size and shape of the finished shell, and suitable jaws movable relatively to each other for engaging the exterior of the shell while welding, said jaws being designed to assume at their bearing surface the exact desired internal size and shape of the finished finished shell, the arbor in its contracted position and the jaws in their removed position permitting easy insertion and removal of the formed metal piece before or after welding.

1,351,446. COMBINATION WELDING-MACHINE. HERBERT M. SMITH, Great Barrington, Mass., assignor to Stanley Insulating Company, Great Barrington, Mass., a Corporation of Maine. Filed Sept. 30, 1918. Serial No. 256,292. 52 Claims. (Cl. 219—4.)



1. A machine of the kind described, comprising a rotating arbor constituting one electrode and a coöperating wheel electrode mounted to engage the work on the arbor, hand and power-operated means, optionally operable, to cause a relative advance of the wheel electrode longitudinally of the arbor to a variably predetermined point and for making and breaking the welded circuit at variably predetermined moments.

1,351,447. SELF-OPENING DIE. OTTO A. SORENSEN, New York, N. Y. Filed Oct. 16, 1918. Serial No. 258,356. 7 Claims. (Cl. 10—98.)



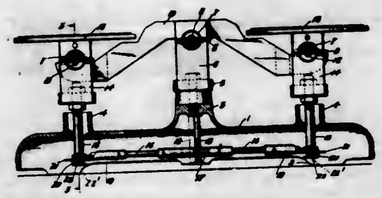
1. A self-opening die comprising a supporting head, cooperating jaws pivoted in said head, cutters carried by said jaws, a stud rigidly secured to the head and centrally projecting therefrom between the rear ends of the pivoted jaws, a jaw closer slidingly mounted on the stud in position to be tripped by the work to release the jaws, and means for sliding said jaw closer in reverse direction to close the jaws.

1,351,448. METHOD AND APPARATUS FOR WIRING COIL-SPRINGS. FREDERICK M. STEVENS, New York, N. Y., assignor to John Chatillon & Sons, a Corporation of New York. Filed Nov. 13, 1917. Serial No. 201,768. 13 Claims. (Cl. 140—93.)



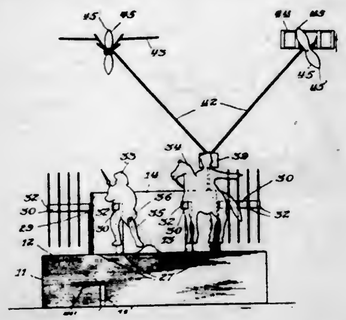
1. The method which consists in tying the coils of a formed spring in contact with each other while holding the spring coils and tie against displacement with respect to each other and confining the spring in normal shape by a mandrel.

1,351,449. SCALE. FREDERICK M. STEVENS, New York, N. Y., assignor to John Chatillon & Sons, a Corporation of New York. Filed Feb. 2, 1916, Serial No. 75,630. Renewed Feb. 18, 1920. Serial No. 359,538. 7 Claims. (Cl. 265—54.)



1. In a scale, a frame, a bushing rotatably mounted therein, and a knife edge support within said bushing.

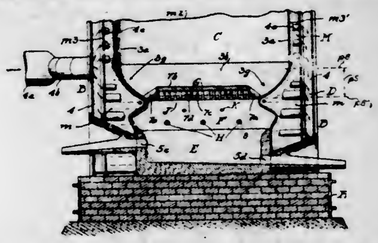
1,351,450. TOY. JAROSLAV STRAKA, Chicago, Ill. Filed June 19, 1919. Serial No. 305,342. 15 Claims. (Cl. 46—40.)



1. In a toy comprising a frame, a movable element carried thereby, a figure mounted on said movable element and having a relatively movable member, and means carried by said frame and located in the path of said member whereby as said figure is set in motion by said movable element said member will be moved with respect to said figure.

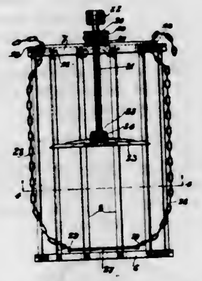
1,351,451. SMELTING-FURNACE. RANDOLPH G. WARD, New York, N. Y., and WILLIAM R. WARD, Bethlehem, Pa., assignors, by direct and mesne assignments, to Independent Mines Smelting Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 4, 1916. Serial No. 123,612. 26 Claims. (Cl. 263—27.)

1. In a smelting furnace of the character described, the combination of a horizontally elongated charge chamber having the lower part of their walls downwardly and inwardly curved to form a furnace-hearth provided with a central elongated hearth opening having a width greater than its vertical depth; and oppositely disposed upwardly



and inwardly pointing coacting burners arranged under said hearth and disposed in opposed pairs and adapted to combine their flames at a point just beneath said opening and to project the concentrated flames up through said hearth opening to points considerably above the opening.

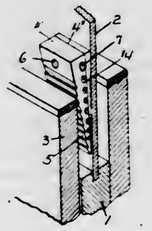
1,351,452. BALER. WILLIAM A. WEBSTER, Galesburg, Ill. Filed July 26, 1916. Serial No. 111,342. 5 Claims. (Cl. 100—8.)



1. A container for balers comprising an open work bottom member substantially circular in form and formed in two separable parts, there being a hook and lug connection between said parts; a top substantially circular ring formed in two separable parts; there being a hook and lug connection between said parts; and substantially vertical slats connecting corresponding parts of said bottom member and said top ring, substantially as described.

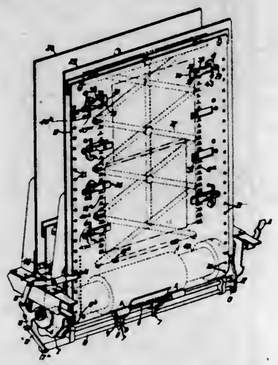
3. A baler comprising a container consisting of upper and lower members and slats connecting the same, the upper member being provided with bale tie receiving apertures, and means to compress the contents of the container, substantially as described.

1,351,453. ANTIRATTLING DEVICE. GEORGE A. WELLS, Jr., New York, N. Y. Filed Dec. 23, 1919. Serial No. 346,816. 4 Claims. (Cl. 292—343.)



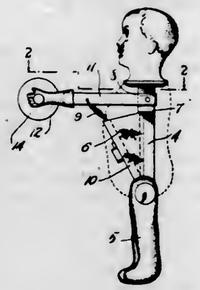
1. An anti-rattling device composed of a wedge-shaped soft rubber face portion and a hard rubber backing therefor integral therewith.

1,351,454. TYPEWRITING-MACHINE. JOHN A. WHERRY, New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 1, 1917. Serial No. 204,968. 31 Claims. (Cl. 197—126.)



1. The combination with a platen having a curved surface, of a flexible collating member passing around said platen, and a plurality of securing devices for holding work-sheets on said collating member having a movement relative to said collating member and to each other, so as to allow for the bending and straightening action of said collating member and said work-sheets in passing to and from the platen and around the platen.

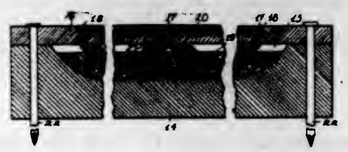
1,351,455. TOY FIGURE. JOHN N. WHITEHOUSE, New York, N. Y., assignor to Elektra Toy & Novelty Co., New York, N. Y. Filed July 11, 1919. Serial No. 310,038. 2 Claims. (Cl. 46—40.)



1. A figure toy having a cruciform frame, a head carried on the upper stem portion of the frame, legs connected to the lower stem portion of the frame, a U-shaped strap of suitable resilient material secured to the cross bar of the frame with the arms of said strap extending forwardly from the cross bar, cymbals secured to the ends of said arms and means connected to the frame and the arms for bringing the arms toward each other to actuate the cymbals.

1,351,456. POULTRY-ROOST. HENRY WINDAHL, New Sharon, Iowa, assignor of one-third to Andrew M. Evans, New Sharon, Iowa. Filed Sept. 25, 1918. Serial No. 255,725. 1 Claim. (Cl. 119—25.)

A poultry perch, comprising a perch bar formed with an upwardly opening channel extending throughout the major portion of its length, a top bar mounted on said perch bar and covering said channel, said top bar being formed with an upwardly opening groove throughout the major portion of its length, and formed with spaced holes forming communication between said groove and channel, means for securing the top bar to the perch bar, and a



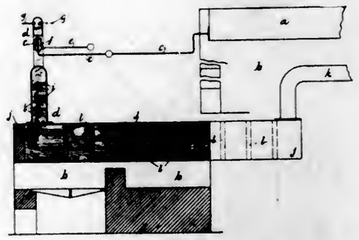
wick member lying in said groove, said wick member also being extended through the holes in said top bar into said channel.

1,351,457. EXTENSION-TABLE. FRIEDRICH WOHLMANN, Los Angeles, Calif. Filed Oct. 26, 1916, Serial No. 127,936. Renewed June 9, 1920. Serial No. 387,722. 8 Claims. (Cl. 45—113.)



7. In an extension table, the combination with a frame including a fixed top, of a carriage slidably mounted in said frame and adapted to be telescoped into the frame, said carriage having a leaf guideway, a leaf slidably mounted in said guideway, the underside of said carriage provided with an incline so positioned as to cause the carriage to move vertically after it has cleared said top as it is moved from the frame.

1,351,458. TREATMENT OF PETROLEUM AND LIKE OILS. EDWARD WILLIAMS WYNNE, Liverpool, England. Filed Aug. 28, 1918. Serial No. 251,716. 3 Claims. (Cl. 204—31.)

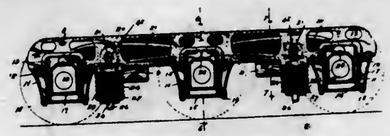


3. An apparatus for the treatment of petroleum and like oils comprising a spraying apparatus adapted to receive oils, means communicating with said spraying apparatus to cause ozonized oxygen to commingle with oil sprayed in said apparatus, electrodes in said spraying apparatus to subject the mixture emitted thereby to an electrical treatment, a still communicating with said spraying apparatus, and electrodes located in said still to subject the mixture to a further electrical treatment.

1,351,459. CAR-TRUCK. FRANKLIN L. BARBER and EDWIN W. WEBB, Chicago, Ill., assignors to Standard Car Truck Company, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 24, 1919. Serial No. 278,619. 7 Claims. (Cl. 105—196.)

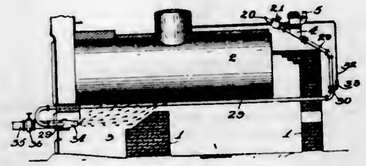
1. In a car truck, the combination with a frame having side members and a pair of transoms rigidly connecting

said side members, of a double bolster, lateral motion devices carried by the transoms and supporting the double



bolster with freedom for lateral movement entirely between the frame side members, and stops for limiting the lateral movement of the double bolster.

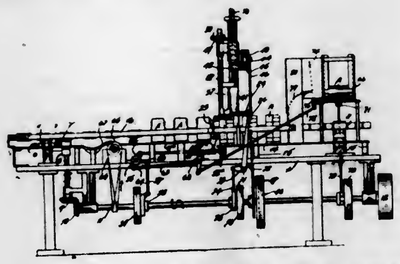
1,351,460. PULVERIZED-FUEL GAS-GENERATOR. NAPOLEON F. N. BEAUREGARD, Chicago, Ill. Filed May 21, 1917. Serial No. 169,942. 9 Claims. (Cl. 110—104.)



1. The process of burning fuel, which consists in mixing powdered fuel with air, then subjecting the mixture to an intense heat, then mixing an additional supply of air therewith, and thereafter introducing the mixture into a furnace chamber for combustion.

3. A fuel supply apparatus, comprising a conduit having an outlet at one end, means for supplying air thereto near its inlet end, supplemental air supply means at the outlet end thereof, means for heating a portion of said conduit intermediate its ends, and means for supplying pulverized fuel to said conduit intermediate its inlet end and its heated portion.

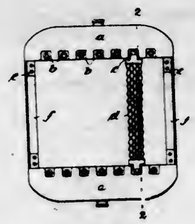
1,351,461. MEANS FOR OPENING RECEPTACLES OR CARTONS. CARL BECKMANN, New York, N. Y., assignor to E. D. Anderson, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 15, 1919. Serial No. 338,336. 14 Claims. (Cl. 93—36.)



10. The combination of means to support receptacles having flaps, with means to deflect the flaps of said receptacles, and means to open said receptacles.

1,351,462. RADIATOR. JULIUS BEHR, Feuerbach-Stuttgart, Germany. Filed Apr. 24, 1915. Serial No. 23,733. Renewed Feb. 17, 1920. Serial No. 359,231. 2 Claims. (Cl. 257—130.)

1. In a radiator, the combination with a cooling element comprising an upper header, a lower header and a plurality of tubes having very thin walls opening into the same, of an upper end a lower header, an upper tubular member securely carried by and opening into one of the upper headers, the other of the upper headers having an annular member surrounding said tubular member, a lower tubular member securely carried by and opening into one of the lower headers, the other of the lower headers having an annular member surrounding the lower said tubular



member, and elastic packing rings locked between each tubular member and the adjacent annular member for forming chambers in the annular members, each chamber being in open communication with the adjacent tubular member and with the header carrying the respective annular member containing the chamber, said upper and said lower tubular member each constituting a tightening or bolting and a supporting member.

1,351,463. TIRE-CASING AND METHOD OF MAKING THE SAME. NEWTON BENJAMIN, Elmira, N. Y. Filed Jan. 26, 1918. Serial No. 213,895. 2 Claims. (Cl. 154—14.)

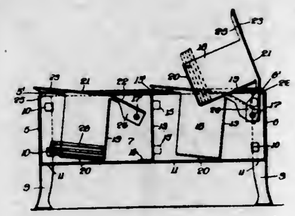


1. A tire armor or casing having embodied therein, a reinforcement comprising parallel wires and a braid comprising a plurality of cords wound spirally on said wires in a plurality of strands of said braid alternately in reverse directions, the convolutions of each strand of braid lying alongside of the adjacent convolutions, and each convolution being disposed between two other convolutions.

1,351,464. COMMODITY-CABINET. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1919. Serial No. 341,363. 5 Claims. (Cl. 211—7.)

1. A commodity cabinet of the character described, comprising a supporting frame having a wall extending between opposite sides thereof, and a plurality of commodity receptacles disposed side by side between said sides of the

frame, each of said receptacles having top, bottom, side and rear walls and a front opening lying behind said frame wall, said receptacles being hinged at their rear ends so as to tilt upwardly and thereby expose their front openings above said frame wall.



2. A commodity cabinet of the character described, comprising a supporting frame having a wall extending between opposite sides thereof, and a plurality of commodity receptacles disposed side by side between said sides of the frame, each of said receptacles having top, bottom, side and rear walls, and a front opening lying behind said frame wall, said receptacles being hinged at their rear ends so as to tilt upwardly and thereby expose their front openings above said frame wall, and a transverse ledge on said frame above and in rear of the hinges of said receptacles for limiting the extent of upward tilting movement of the latter.

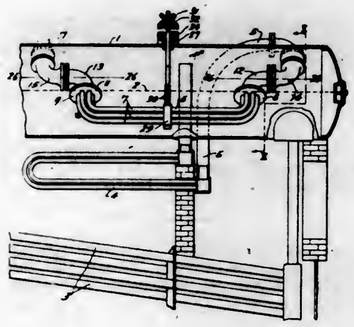
3. A commodity cabinet of the character described, comprising a supporting frame having a wall extending between opposite sides thereof, and a plurality of commodity receptacles disposed side by side between said sides of the frame, each of said receptacles having top, bottom, side and rear walls and a front opening lying behind said frame wall, said receptacles being hinged at their rear ends so as to tilt upwardly and thereby expose their front openings above said frame wall, and the top walls of said receptacles being extended forwardly of their front openings and resting upon the upper edge of said frame wall.

4. A commodity cabinet of the character described, comprising a rectangular supporting frame having substantially vertical front and side walls and corner legs, a hinge rod extending between said side walls parallel with said front wall, and a row of commodity receptacles pivoted at their rear ends on said hinge rod, each of said receptacles having an open front end lying behind the front wall of said supporting frame, and the top walls of said receptacles being extended forwardly of their open front ends and resting upon and overhanging the top edge of the front wall of said supporting frame, whereby each of said receptacles is normally held closed by gravity and may be tilted upwardly to expose its open front end.

5. A commodity cabinet of the character described, comprising a rectangular supporting frame having substantially vertical front and side walls and corner legs, a hinge rod extending between said side walls parallel with said front wall, and a row of commodity receptacles disposed side by side between said side walls, each of said receptacles having top, bottom, side and rear walls and an open front end lying behind the front wall of said supporting frame, and the top walls of said receptacles having downwardly inclined rear extensions pivoted on said hinge rod and forward extensions resting upon and overhanging the top edge of the front wall of said supporting frame.

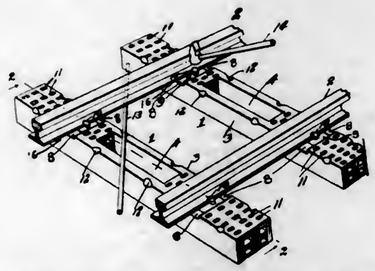
1,351,465. APPARATUS FOR REGULATING THE TEMPERATURE OF SUPERHEATED STEAM. BENJAMIN BAOIDO, New York, N. Y., assignor to Locomotive Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 7, 1917. Serial No. 206,115. 4 Claims. (Cl. 122—479.)

1. In a regulator of the class described, the combination of a pair of elbows in alinement, two other elbows connected with the first pair by universal joints, two perforated plates connected to the ends of the second pair



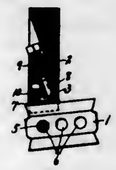
of elbows, and a set of curved tubes whose ends are secured in said plates.

1,351,466. CREEPLESS METALLIC TIE. LEONARD L. BROWN, Clifton Forge, Va., assignor of one-eighth to Robert E. Robinson and one-eighth to George I. Grasty, Clifton Forge, Va. Filed May 15, 1920. Serial No. 381,724. 5 Claims. (Cl. 238—30.)



1. A tie of the class described, comprising a body having a free vertically-arranged central opening and with wood blocks between said central opening and its ends, crowbar receiving means formed upon the body, a replacing-device receiving or anchoring means formed upon the body.

1,351,467. CUTTING-TOOL. EDWARD I. CHAPIN and FRANK E. BAKER, Syracuse, N. Y., assignors to Chapin & Baker Manufacturing Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Mar. 12, 1919. Serial No. 282,169. 5 Claims. (Cl. 29—96.)



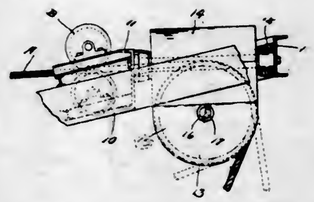
1. In a tool of the character described, a cutting blade having a series of apertures along its longitudinal center and its opposite lengthwise edges of the same cross-sectional form and parallel with the row of apertures, the end faces of said longitudinal edges being undercut beyond the corresponding end faces of the main body.

1,351,468. HARP. MELVILLE A. CLARK, Syracuse, N. Y. Filed Sept. 9, 1916. Serial No. 119,194. 9 Claims. (Cl. 84—14.)



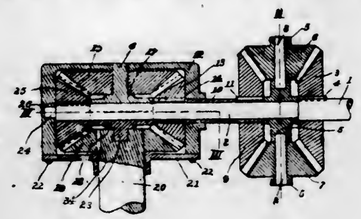
1. A harp having all of its strings attached to the neck at one and the same side thereof, in combination with movable frets, one for each string, mounted on the neck, and operating members for said frets at the opposite side of the neck.

1,351,469. BALANCED SHEAVE. THOMAS A. COLEMAN, Blytheville, Ark. Filed Sept. 11, 1919. Serial No. 323,133. 3 Claims. (Cl. 254—195.)



1. A balanced sheave comprising a pair of plates, a counterbalancing weight formed integral with and connecting the upper portions of said plates, integrally formed tubular trunnions on the ends of said weight, and a sheave journaled between said plates.

1,351,470. RIGHT-ANGLE POWER TRANSMISSION. ROBERT WILLIAM DAVIS, Hiltonia, N. J. Filed Mar. 17, 1919. Serial No. 283,141. 9 Claims. (Cl. 74—7.)



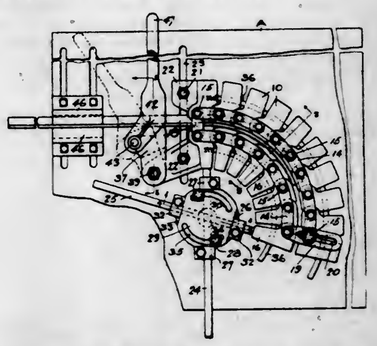
1. The combination with a driving shaft and a driven shaft arranged at right angles to one another, of a gear fast on the driven shaft, a hollow shaft mounted loosely around the driving shaft, a gear fast on the driving shaft and meshing with said gear on the driven shaft, a gear fast on the hollow shaft and also meshing with said gear on the driven shaft, and means for actuating said hollow shaft from the driving shaft.

1,351,471. WALL SYSTEM. WILLIAM H. DRABERS, Niles, Ohio. Filed Feb. 21, 1919. Serial No. 278,525. 6 Claims. (Cl. 72—30.)



6. A wall comprising a plurality of blocks having beads and mating but shallower grooves on their adjacent faces and ends, said beads forming the side walls of a central and flanking channels, said channels being continuous and intercommunicating, having cementitious binder filling said central channel.

1,351,472. BENDING-MACHINE. JAMES FARMER, Pittsburgh, Pa., assignor of one-third to James E. Conway, Pittsburgh, Pa. Filed Sept. 12, 1919. Serial No. 323,338. 15 Claims. (Cl. 153—32.)



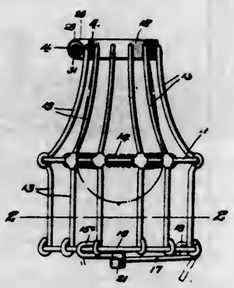
1. In a bending machine, the combination with a support, of a plurality of adjustably connected sets of bending dies, the dies in each set being flexibly connected one to another and means for feeding the work between the said sets of dies.

1,351,473. FISHING-ROD. FORSTER HARDY, South Ealing, England. Filed July 1, 1919. Serial No. 307,984. 6 Claims. (Cl. 43—18.)



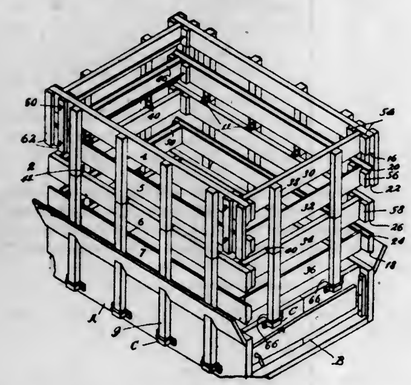
1. A fishing rod having a handle secured to its butt end only and extending forwardly of said butt end, and an adjustable extension provided on said handle for increasing the effective length thereof.

1,351,474. INCANDESCENT-LAMP GUARD. WALTER A. HEINRICH, St. Louis, Mo., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo., a Corporation of New Mexico. Filed Aug. 9, 1919. Serial No. 316,426. 1 Claim. (Cl. 240—102.)



In an incandescent lamp guard, a wire cage adapted to inclose the lamp body, members hinged to the lower portion of said cage and coöperating to form a closure for the bottom thereof, the inner ends of which members are adapted to overlap, key operated means removably seated in said overlapping ends, and a socket on the inner end of one of said members, which socket incloses a portion of the key operated means.

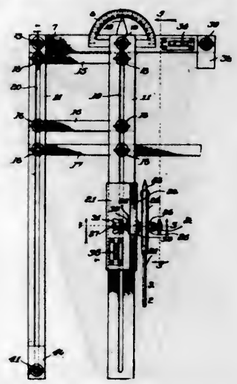
1,351,475. CONVERTIBLE VEHICLE-RACK. WILBUR J. HEMPY, Ottawa, Kans. Filed Jan. 9, 1919. Serial No. 270,282. 1 Claim. (Cl. 296—13.)



A convertible rack consisting of two oppositely-disposed sides the upper portions of which are hinged to fold downwardly, and an end-gate disposed at one end of said oppositely-disposed sides and consisting of stakes having upper and lower sections, hinges connecting said sections so that the upper sections may fold downwardly, slats secured to said stakes and spaced apart to form an open end-gate when the stakes are extended and a grain tight end-gate when said stakes are folded, in combination with a vehicle body having a tail-gate with notches in its upper portion registering with the stakes so that it can be opened and closed without disturbing the end-gate, and sockets on said tail-gate to receive the lower ends of the stakes, said sockets having open sides registering with the notches in the tail-gate.

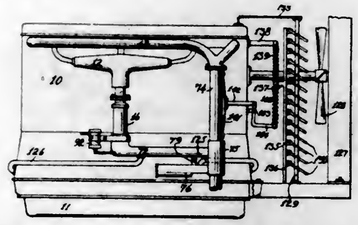
1,351,476. SCRIBING DEVICE. WALTER G. HILL, Chicago, Ill. Filed Sept. 15, 1919. Serial No. 323,899. 6 Claims. (Cl. 33—35.)

1. In a device of the character set forth, the combination of a member adapted to be positioned relative to the surface of an object to be marked, a slide moveable lengthwise of said member, a member pivoted on said slide on an axis extending crosswise of the direction of movement of said slide and adapted to rock on its pivot in the



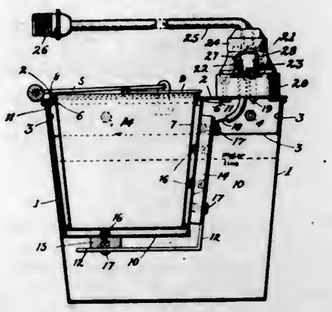
use of the device, and a marking device mounted on said second-named member and shiftable lengthwise thereon in the operation of the device.

1,351,477. AIR-CONTROL AND HEAT-REGULATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. EDWARD G. HODGES, Marshalltown, Iowa. Filed Mar. 15, 1919. Serial No. 282,954. 10 Claims. (Cl. 123—122.)



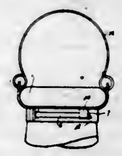
1. The combination of an internal combustion engine; a carbureting device; a shutter mechanism at the forward end of said engine; means for controlling the shutter mechanism according to the heat of the engine, said shutter mechanism being so mounted as to be effected by the pressure of the air against said shutter device.

1,351,478. ELECTRIC GLUE-HEATER. HARRY KAIN, CON L. MILES, and GLENN A. WILKINSON, Wabash, Ind. Filed Jan. 8, 1920. Serial No. 350,139. 3 Claims. (Cl. 219—43.)



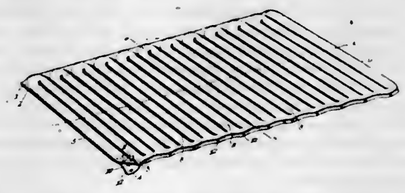
1. An electrically heated glue pot comprising a double boiler structure having an outer vessel and an inner vessel, a cover for said outer vessel containing an opening for the insertion of the inner vessel, a screen member supported from the said cover extending downwardly along the sides of the opening and under and across the bottom of the inner vessel, a plurality of electrodes extending along one side and the bottom of said screen mechanically supported thereby but electrically insulated therefrom, said electrodes extending vertically above a given level in the outer vessel and circuit connections for said electrodes entering said outer chamber through the cover and connecting with said electrodes at points above the said given level.

1,351,479. MILK-BOTTLE HANDLE. WILLIAM A. KRUTH, Minneapolis, Minn. Filed Feb. 2, 1920. Serial No. 355,799. 2 Claims. (Cl. 215—1.)



1. In a milk bottle handle the combination of a band having one end thereof formed into a tongue, an aperture in the other end of said band to form a guide for said tongue when passed therethrough, the portion of said band beyond said aperture being folded against itself and extending outwardly from said band, a latch formed from an ear extending from said band and positioned adjacent to said aperture and a latch formed at the extremity of said tongue to coöperate with said catch, said band being formed into a circular shape and adapted to be passed around the throat of a milk bottle and held in positive relation thereto by the coöperation of said latch and catch, and lifting means extending from said band.

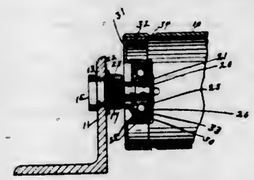
1,351,480. PNEUMATIC OR COMPRESSED-AIR-CUSHION BED. RICHARD A. LEIGH, Denver, Colo., assignor to Edna Frances Leigh, Denver, Colo. Filed Oct. 2, 1919. Serial No. 328,020. 2 Claims. (Cl. 5—1.)



1. An air cushioning bed, comprising a pair of similar sized outside cover portions and air receiving and retaining rubber tubes secured between said cover portions, said outside covers having loose and free side edges, said side edges on their opposite sides being arranged to be attachably and detachably secured together, said portions being formed by securing said covers together at predetermined distances apart lengthwise of said covers, and said partitions extending transversely across said covers to within a few inches of the loose and free edges of said covers.

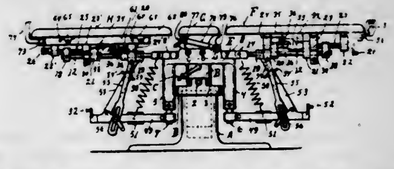
1,351,481. BEARING FOR CONVEYER-ROLLERS. CHARLES HENRY LISTER, North St. Paul, Minn. Filed Feb. 21, 1919. Serial No. 278,323. 4 Claims. (Cl. 64—36.)

1. In a bearing for conveyer rollers, a stud having a medial thread and a smooth inner end, forming a shoulder and a projecting bearing pintle, an annular raceway adapted to revolve freely upon said pintle and to fit against said shoulder, a peripheral groove in said race way, a two part annular ball cage adapted to retain



a series of balls in said groove, a series of anti-friction balls in said cage, and a tubular roller, provided with an end plug formed with axial cups adapted to fit freely over said cage and coöperate with said shoulder to hold said cage against lateral movement on the stud.

1,351,482. TREATMENT-TABLE. JOHN V. MCMANIS, Kirksville, Mo. Filed June 27, 1917. Serial No. 177,311. 25 Claims. (Cl. 128—74.)

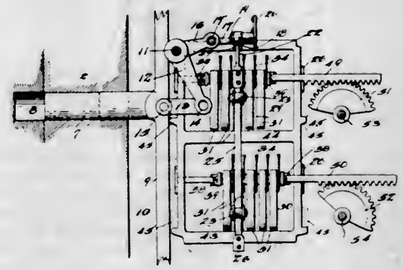


1. A treatment table comprising a base, a pedestal vertically adjustable relative to said base, and a plurality of table top sections each pivotally and resiliently supported upon and relative to said pedestal.

1,351,483. PROCESS FOR EXTRACTING OLEAGINOUS SUBSTANCES FROM OLEAGINOUS-SUBSTANCE-CONTAINING MATERIALS. JAMES MACGREGOR, Glasgow, Scotland, assignor to Herbert Austin, Fall River, Mass. Filed June 24, 1918. Serial No. 241,640. 3 Claims. (Cl. 87—6.)

1. A process for the extraction of oil, wax, rosins and the like from bone-charcoal, fullers' earth and like substances containing the same, consisting in mixing the said material with water to form a paste or emulsion and subsequently treating the said paste or emulsion with a solvent which separates the oil from the water and material.

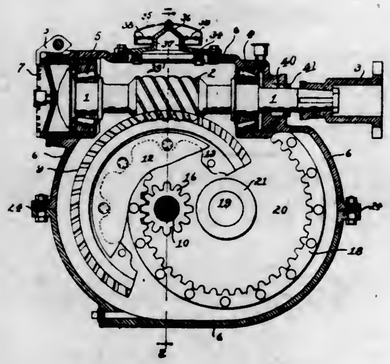
1,351,484. COMBINATION-LOCK. CLYDE LEE MANON, Fitzgerald, Ga. Filed Jan. 28, 1919. Serial No. 273,604. 3 Claims. (Cl. 70—18.)



1. The combination with a set of laterally movable revoluble latches and means for adjusting the latches to

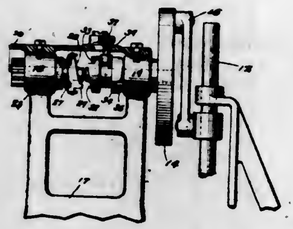
selected position, of a depressible bar adapted to engage a selected latch, a liftable keeper frame adapted to engage the selected latch, and means combined with locking mechanism for actuating said mechanism, the depressible bar and the keeper frame.

1,351,485. TRANSMISSION MECHANISM FOR TRACTORS. FRANK MOON, Oakland, Calif., assignor to Moon Tractor Co., San Francisco, Calif., a Corporation of California. Filed Oct. 29, 1919. Serial No. 334,304. 2 Claims. (Cl. 74—7.)



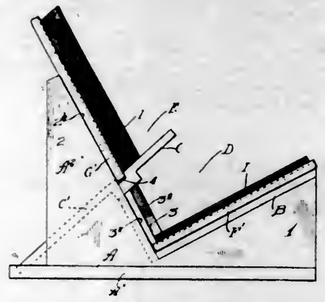
1. A transmission mechanism comprising a substantially cylindrical open-ended housing; a driving shaft positioned therein at right-angles to the axis of said housing; a worm mounted upon said driving shaft; a countershaft within said housing and positioned parallel with the axis thereof; a worm-wheel fixed upon said countershaft and adapted to mesh with said worm; a pinion fixed upon each end of said counter-shaft; an internal gear driven by each pinion; a driven shaft fixed to and extending outwardly from each internal gear; and a pair of end plates removably secured to said housing, said plates having tubular extensions for surrounding and supporting said driven shafts.

1,351,486. WASHING-MACHINE. NEVVENS N. NUNN, Maplewood, Mo., assignor to The Almetal Manufacturing Company, Maplewood, Mo., a Corporation of Missouri. Filed Dec. 23, 1918. Serial No. 267,966. 3 Claims. (Cl. 74—46.)



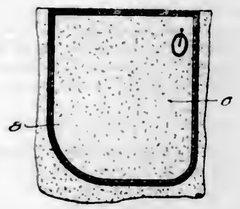
1. In a clutch of the class described, a pair of rotatably mounted alined shafts, clutch members mounted to rotate with and move lengthwise upon said shafts, a lever provided with locking pins for shifting one of said clutch members lengthwise upon its shaft and locking said member in position, yielding pressure means for resisting the movement of the other one of the clutch members away from the manually operable clutch member, and a bearing provided with a pin for engaging the first mentioned clutch member.

1,351,487. LOOSE-LEAF DEVICE. GEORGE H. POTWIN, Chicago, Ill., assignor to Accounting Devices Company, Chicago, Ill., a Corporation of Illinois. Filed May 24, 1918. Serial No. 236,309. 11 Claims. (Cl. 45—57.)



1. A loose-leaf book-supporting rack comprising a lower platform, a back equipped with a guide-rib for slotted leaves and with a recess at the junction of said platform and back for accommodating a cover-section, and an upper platform having means associated therewith for supporting a book in rearwardly inclined position.

1,351,488. DOOR PANEL AND THE LIKE. JOSEPH REGENSTEIN, Chicago, Ill. Filed June 27, 1919. Serial No. 307,080. 2 Claims. (Cl. 154—43.)



1. As a new article of manufacture, a door panel or the like comprising a backing of paste-board and the like, having pasted to its exposed surface a facing of suitable material, and having pasted or glued to its back surface a facing of water-proof material, and a line of stitching extending around the periphery of the panel and through the backing and both facing materials and serving to firmly secure the facing materials to the backing and prevent the entrance of water into the edge of the panel, substantially as described.

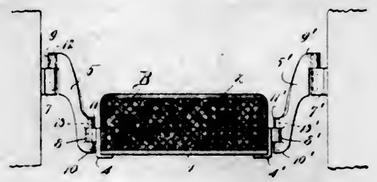
1,351,489. RECOVERY OF THORIUM. LONNIE W. RYAN, Chicago, Ill., assignor to Lindsay Light Company, Chicago, Ill., a Corporation of Illinois. Filed May 29, 1918. Serial No. 237,328. 10 Claims. (Cl. 23—13.)

2. In the recovery of thorium, the step which consists in precipitating a dissolved thorium salt from a solution as a metaphosphate.

1,351,490. FLOWER-BOX. CHARLOTTE REDDEN SANBORN, Somerville, Mass. Filed Feb. 24, 1919. Serial No. 278,642. 1 Claim. (Cl. 47—41.)

A device adapted to support flowers in various locations and positions comprising a flower box, L-shaped members adapted to hook under the opposite ends of the box, wall members adapted to be secured to a wall, and arms extending between said L-shaped members and said

wall members, said L-shaped members and said wall members having lateral lugs with vertical openings therein, said arms extending under the lugs in said L-shaped



members and over the lugs on said wall member, and pivot pins extending from the ends of said arms into said openings in the L-shaped and wall members respectively.

1,351,491. SPECTACLES. SAMUEL I. SCHWABACHER, Seattle, Wash. Filed May 20, 1919. Serial No. 298,355. 1 Claim. (Cl. 2—149.)



A device for protecting the eyes in viewing motion pictures, comprising vision frames for the eyes, the openings of said frames being bridged by bars arranged in parallelism and horizontal to the line of vision, each bar being within the plane of the frame and rounded on the side next the eye, the opposing side of the bar being flat, the rounded side of each bar being of dull color.

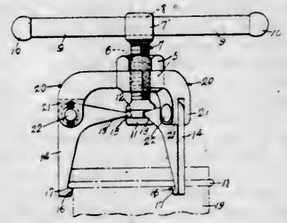
1,351,492. HERMETIC GLASS COVERING. JEAN CHARLES SÉAILLES, Paris, France, assignor to Societe Des Vitrages A. M. L. Société Anonyme, Paris, Seine, France, a Corporation of France. Filed Feb. 6, 1918. Serial No. 215,712. 1 Claim. (Cl. 108—10.)



A construction of the glass described, consisting of a pair of glass tiles having their ends overlapping, each of said tiles having at least two spaced ribs, the transverse spaces between the ribs being greater than the width of the ribs themselves and a filler of adhesive material disposed between at least one pair of said ribs and in which one of the ribs of the opposed tile is embedded, the faces of the tile being flat and smooth offering an unobstructed water shed for the lapped and overlapping tiles and a flat supporting underface for the overlapped tile.

1,351,493. ICE-CREAM-CAN TONGS. CHARLES A. SIGMOND, Freeport, N. Y. Filed Aug. 29, 1919. Serial No. 320,639. 3 Claims. (Cl. 294—106.)

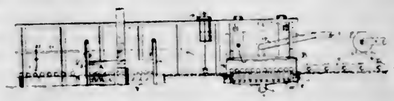
1. Tongs including a body portion, right angled arms extending from the body portion, each of said arms having a depending portion, clamping jaws including right angled members, means for pivotally connecting the clamping jaws to the right angled arms, means on one end of each of the clamping jaws for coöperating with an ice cream can, an operating bar threaded to move through the body, a head on one end of the operating bar, means for connecting the head and one end of each of the clamping jaws whereby movement of the operating bar produces a relative movement of the clamping jaw.



2. Tongs including a body portion having a central threaded opening, arms formed integral with the body portion, clamping jaws pivotally connected to the arms, a threaded operating bar operating in the threaded opening in the body, means for providing a connection between the clamping jaws and operating bar whereby movement of the operating bar produces a relative movement of the clamping jaws.

3. Tongs including a body portion, a threaded operating bar adjustably supported within the body portion, a head formed on one end of the operating bar, said head having a groove, clamping jaws associated with the body, each of said jaws having an arm provided with a head on the extreme end thereof, said heads of the clamping jaws being positioned in the groove, whereby movement of the operating bar produces a relative movement of the clamping jaws.

1,351,494. PROCESS OF STEEL TREATMENT. DAVID J. SIMPSON, Chicago, Ill., assignor to Noah Steiner Amstutz, Valparaiso, Ind. Filed Apr. 5, 1915. Serial No. 19,310. Renewed Dec. 29, 1919. Serial No. 348,049. 6 Claims. (Cl. 148—13.)



1. The process of heat treating steel which consists first of subjecting the material to a continuous rising heat up to about 1370 degrees F. for 30 point carbon and about 1270 degrees F. for 65 point carbon, varying this temperature inversely to the carbon content for intermediate products, arresting the application of heat, and then subjecting the same to a continuous rising temperature above the upper critical point, and finally applying a cooling gaseous medium to reduce the temperature rapidly.

2. The process of heat treatment of steels which consists in heating medium steel (of say 60 to 70 point carbon) for the lower critical point, arresting the application of heat, again heating to above the upper critical point, and finally quenching in a gaseous cooling medium.

1,351,495. STEEL-TREATMENT APPARATUS. DAVID J. SIMPSON, Chicago, Ill., assignor to Noah Steiner Amstutz, Valparaiso, Ind. Filed Apr. 5, 1915. Serial No. 19,311. Renewed Dec. 29, 1919. Serial No. 348,050. 15 Claims. (Cl. 266—2.)



1. A suitable furnace, means for supplying heat thereto in a controllable manner, a cooling device, suitable trackages therebetween, means for transferring material from one to the other, means for hermetically sealing the

cooling device, means for causing the rapid traverse of a cooling medium therethrough, and means for varying such traverse in different parts of said device.

2. A cooling chamber comprising a movable hood, a water seal tank therefor, a suitable isolated support within the tank, a flexible conduit leading to the hood, a series of outlets attached to said support, and means for controlling the inlet and outlets thereof.

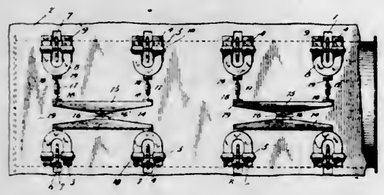
3. A suitable furnace, oppositely placed openings therefor constituting charging and delivery ends, a storage space adjacent each end, a cooling chamber beyond one of the storage spaces, a conveyer traversing the furnace, the inter-space and the chamber, and a second conveyer adapted to traverse over both storage spaces and the furnace on a different plane whereby materials requiring reheating may be delivered from the chamber to the space adjacent the charging end of the furnace without interfering with materials being heated in said furnace and their subsequent transfer to the cooling chamber.

1,351,496. JAR-CLOSURE. CHARLES HORACE SPOONER, Charlestown, N. H. Filed July 9, 1918. Serial No. 244,095. 1 Claim. (Cl. 215—98.)



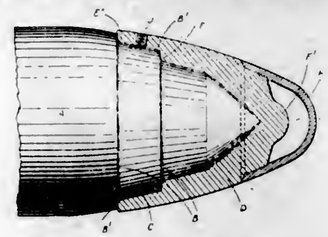
The combination with a jar having a mouth end provided with interior interrupted threads, of a closure comprising a body fitting into the mouth end and provided with interrupted threads to engage the threads of the interior of the mouth end, the marginal edge of the mouth end having an annular recess, said annular recess inclining inwardly and downwardly and having its inner wall substantially vertical, the body of the closure having an annular flange, said annular flange on its under face being provided with an annular recess, which annular recess inclines inwardly and upwardly, an annular recess concentric with the recess of the under face of the flange and adjacent thereto, said second annular recess of the flange and the inclined recesses of the flange and marginal edge of the jar mouth forming means for clamping a rubber washer in such a manner so that the same will be held against outward spreading by the annular recesses which incline inwardly and downwardly and inwardly and upwardly.

1,351,497. SUSPENSION-EQUALIZING DEVICE FOR REVOLVING DRUMS. JOHN STADLER, Shawinigan Falls, Quebec, Canada. Filed Apr. 19, 1919. Serial No. 291,396. 5 Claims. (Cl. 64—60.)



1. The combination with a wood barking machine having a support, chains suspended from said support for supporting a revolving drum, of stationary and movable bearings mounted upon said support, sprocket wheels journaled within said bearings over which pass said chains, an equalizing beam connecting each pair of movable bearings and said beams being pivotally supported to said stationary bearings.

1,351,498. ARMOR-PIERCING PROJECTILE. HARRY BLAND STRANG, London, England. Filed May 28, 1918. Serial No. 237,078. 7 Claims. (Cl. 102—28.)



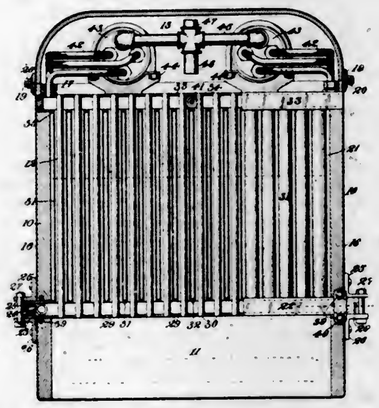
1. In an armor piercing projectile, the combination of a pointed head, a plurality of forwardly directed resistant surfaces formed on the head and spaced longitudinally thereof, a cap hollowed as to its rear portion and provided with a plurality of rearwardly directed surfaces adapted to abut the resistant surfaces on the head, and means for securing the cap on the head.

1,351,499. SAW. KIYOSHI TAKANO, Honolulu, Hawaii. Filed Nov. 15, 1919. Serial No. 338,221. 3 Claims. (Cl. 143—133.)



1. A saw having a plurality of grooves in each side thereof arranged to hold lubricant, said grooves being of graduating lengths, the ends of said grooves terminating adjacent the edges of the saw.

1,351,500. STEAM-BOILER. ERNEST H. VINCENT, Oakland, Calif., assignor of one-half to Herman Christensen, Sunnyvale, Calif. Filed Apr. 3, 1919. Serial No. 287,106. 3 Claims. (Cl. 122—268.)



1. A steam boiler including a series of units each comprising a lower and an upper tube, water tubes and heat tubes therein connected to the lower and upper tubes, a housing, the ends of the lower tubes projecting outwardly beyond the housing, angle plates secured to the housing and engaged with said projecting ends of the lower tubes, bars extending over the projecting ends of the tubes, and vertical bolts connected to the angle plates and extending over the bars.

1,351,501. DISK HARROW. CHARLES E. WHITE, Moline, Ill., assignor to Deere & Mansur Company, Moline, Ill., a Corporation of Illinois. Filed Sept. 9, 1913, Serial No. 788,921. Renewed Jan. 21, 1920. Serial No. 353,094. 6 Claims. (Cl. 55—83.)



1. In a double disking harrow, the combination of the front frame, the front pair of disk gangs extending inward to the central vertical longitudinal planes of the machine, the rear pair of disk gangs, the rear draft frame having the front hinging element pivoted to the front frame on a line in a vertical transverse plane in front of the forward disk gangs the arch element lying above the forward gang frames and the U-shaped rear element rigid with the arch element formed of a cross-bar, and the short attachment bars rigidly connected to said cross bar and pivotally connected to the rear disk gangs to apply the draft thereto at points in horizontal planes approximating those of the rear gang axles.

2. In a double disking harrow, the combination of the front draft frame, the front pair of disk gangs adapted to have their inner ends adjusted longitudinally and arranged to abut at all times against each other at the central vertical longitudinal plane of the machine, the rear pair of disk gangs, the rear draft frame having the front hinging element pivoted to the front frame on a line in a vertical transverse plane in front of the forward disk gangs the arch element lying over the abutting parts of the forward disk gangs and at its rear end the cross frame element formed of a transverse bar and short longitudinal draft bars respectively pivoted to the rear disk gangs and inclined tension bars extending from the arch element to the said short draft attachment bars.

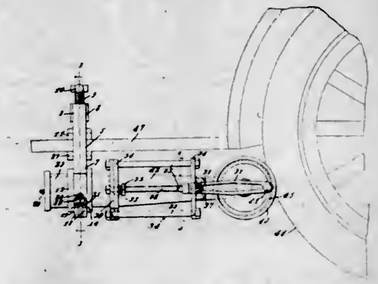
5. In a double disking harrow, the combination of the rear pair of disk gangs, the rear draft frame comprising a U-shaped frame at its rear and arranged to have its parts lie in upwardly and forwardly inclined planes and having draw bars 71 pivotally connected to the disk gangs, and forwardly extending frame parts rigid with said U frame and comprising an arch element and a hinge element, the front pair of disk gangs arranged to abut against each other under the said arch, and the front draft frame pivoted to the said hinge element at a line in front of the front disk gangs.

1,351,502. METHOD OF AND APPARATUS FOR TAKING MOVING PICTURES. WALDON S. BALL, San Francisco, Calif., assignor, by mesne assignments, to Stereoscopic Motion Picture Company, a Corporation of California. Filed Mar. 25, 1916. Serial No. 86,607. 5 Claims. (Cl. 88—16.)



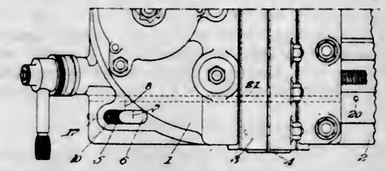
1. An apparatus for taking photographic views, comprising in combination a motion picture camera, a track, a roller carriage on said track to receive the camera, and operative connections between one of the carriage rollers and the film-feeding device.

1,351,503. AUTO-TIRE PUMP. EDWARD B. BARNHILL and JOHN STONE, Indianapolis, Ind. Filed Jan. 7, 1920. Serial No. 349,006. 5 Claims. (Cl. 230—27.)



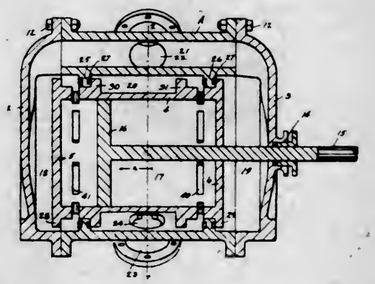
1. An automobile tire pump including a bracket adapted to be clamped to the running board of an automobile, a pump supporting bracket including semi-circular members, a pump barrel adapted to be positioned within the semi-circular members, a frame carried by the pump barrel, a power wheel adapted to contact with the periphery of an automobile wheel, a plunger rod having connection with the power wheel whereby movement of the automobile wheel produces a relative movement of the power wheel to cause the reciprocation of the plunger rod.

1,351,504. CENTER-INDICATING DEVICE. FREDERICK F. CLARKE, Franklin, Pa., assignor to Colburn Machine Tool Company, Franklin, Pa., a Corporation of Pennsylvania. Filed Apr. 7, 1919. Serial No. 288,066. 10 Claims. (Cl. 29—29.)



1. A center-indicating device for boring and turning mills comprising a rectilineally-movable indicating member carried by the saddle of the mill, and means on the cross-rail of said mill for actuating said member to indicate the coincidence of the center line of the tool-socket with the center of the table.

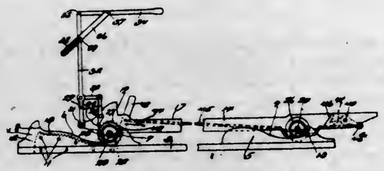
1,351,505. PUMP. IRVING R. COCKROFT, Alameda, Calif. Filed Jan. 28, 1920. Serial No. 354,679. 8 Claims. (Cl. 103—76.)



1. A pumping apparatus comprising two concentric interspaced cylinders, a head member secured on each end

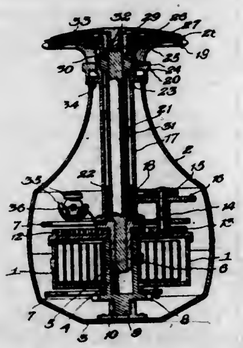
of the outer cylinder, inlet and outlet passages formed in the outer cylinder, a foot valve mounted in the intake passage, a pair of interior flanges formed on the outer cylinder, and interior thereof, said flanges disposed one adjacent each end of the cylinder and forming a sliding support for the inner cylinder, a pair of flanges formed on each end on the inner cylinder and alternately closable against the stationary flanges formed on the outer cylinder, ports formed in the inner cylinder between the flanges, a piston within the inner cylinder, and a piston rod connected therewith and extending through both cylinders.

1,351,506. AUTOMOBILE-LIFTER. JACOB EDWARD COFFEY, Casey, Ill. Filed Feb. 26, 1919. Serial No. 279,319. 2 Claims. (Cl. 254—88.)



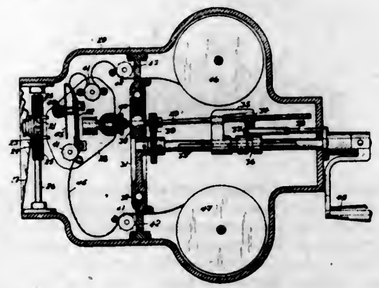
1. The combination with a base frame having inclined tracks provided with abutments, of a superimposed frame provided with flanged wheel connections with said tracks, spring tensioned levers to be engaged by the forward axle of the automobile to move the superimposed frame forwardly, whereby it may engage under and lift the forward axle thereof and consequently the automobile, and a second pair of levers pivoted to the rear of the superimposed frame provided with lifting arms to engage under the rear axle of the automobile to lift the rear end thereof, and connections between the first and second levers, one of said tracks having rack teeth, one of the wheel connections having teeth to engage the rack teeth, and ratchet means coöperating with the teeth of the wheel connections to hold the superimposed frame in its forward raised position.

1,351,507. ROTARY SAFETY-RAZOR. CAP BERTRAND COLLINS, Sioux Falls, S. D. Filed July 27, 1918. Serial No. 247,064. 22 Claims. (Cl. 30—12.)



1. In a rotary razor, a casing, a post therein, blade driving means arranged adjacent said post, a blade carrier rotatably and slidably receivable over the post and engageable with and disengageable from said driving means by mere sliding of the carrier, and means engageable with the post and said blade carrier to hold the carrier against sliding movement.

1,351,508. METHOD OF PRODUCING STEREOSCOPIC EFFECTS IN MOTION-PICTURES. RAYMOND A. DUHEM and JOHN D. GRANT, San Francisco, Calif. Filed Nov. 27, 1917. Serial No. 204,272. 8 Claims. (Cl. 88—16.)



1. A method of producing stereoscopic effects in motion pictures, which consists in taking a series of exposures with a single lens picture camera, and shifting the camera in a manner to cause the principal optical axis thereof to cross a median line at points receding from and approaching the camera.

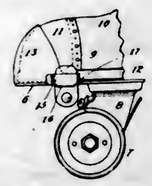
2. The method of producing stereoscopic effects in motion pictures, which consists in taking a succession of exposures of the same object or scene with a single lens motion picture camera while shifting the camera from side to side, and turning said camera during the course of its shifting movement so that its principal optical axis plays back and forth between the distant and close-up points in an object space which it is desired to hold more or less in the same position on the film.

3. A method of producing stereoscopic effects in motion pictures, which consists in taking a series of exposures with a single lens motion picture camera while shifting the camera from side to side and skewing the camera, so that its principal optical axis crosses a median line at varying points during each cycle of movement.

4. A method ofproducing stereoscopic effects in motion pictures, which consists in taking a series of exposures with a single lens motion picture camera while shifting the camera from side to side and skewing the camera, so that its principal optical axis crosses a median line at points gradually receding from and approaching the camera.

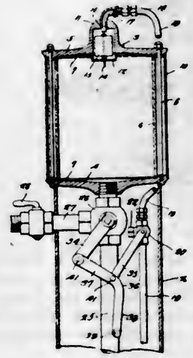
5. The method of producing stereoscopic effects in motion pictures, which consists in taking a series of exposures with single lens motion picture camera while shifting the latter, keeping the principal optical axis of the camera directed toward the center of the object space during a portion of its shifting movement and during the remainder of its shifting movement skewing it about so that its principal optical axis crosses a median line at points gradually receding from said point.

1,351,509. DETACHABLE SHOE-TIP PROTECTOR FOR ROLLER-SKATES. FRANK ESS, Cincinnati, Ohio. Filed Feb. 24, 1919. Serial No. 278,873. 1 Claim. (Cl. 46—53.)



A detachable shoe-tip protector for use with roller or other skates comprising a curved or bowed body-portion, rear-extensions at the opposite ends of the body-portion, forwardly-projecting hooks at the ends of said rear-extensions, inwardly-turned stop-arms or hooks provided on the lower edges of said forwardly-projecting hooks, and a central rearwardly-extending tongue or horizontal foot-piece provided at the lower edge of the body-portion, said hooks being adapted to detachably engage the upright clamping lugs at the fore end of the skate for securing the device against accidental length wise and vertical movements and said tongue or foot-piece being adapted to lie between the sole of the shoe and the fore-portion of the bed-plate of the skate to obviate vertical or tilting movement or displacement of the device on or from the skate either when in or out of use on the foot.

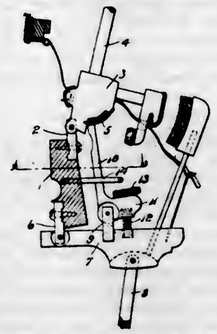
1,351,510. VACUUM GASOLENE-PUMP. GEORGE E. FRIESEN, North Yakima, Wash. Filed Dec. 23, 1918. Serial No. 268,022. 1 Claim. (Cl. 221—99.)



In a device of the class described, a tank; a source of liquid supply; a dispensing outlet; a first valve establishing communication between the source and the tank, and between the tank and the outlet, at different times; a source of suction supply for the tank; an air inlet; a second valve establishing communication between the source of suction supply and the tank, and between the air inlet and the tank, at different times; a third valve coöperating with the source of suction supply to open and close the same; a float operatively connected with the last specified valve and responsive to changes of level in the tank; and means for operating the first and second valves simultaneously.

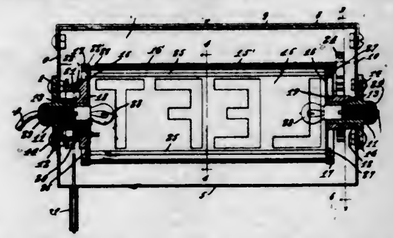
1,351,511. [WITHDRAWN.]

1,351,512. REGULATING-HOOK FOR PIANO-ACTIONS. WALTER A. GOBLE, Grand Rapids, Mich. Filed Nov. 10, 1919. Serial No. 336,995. 4 Claims. (Cl. 84—26.)



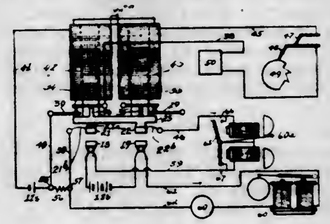
1. In a piano action, a supporting rail, a piano jack pivotally mounted adjacent the supporting rail and having an arm extending upwardly adapted to engage a hammer butt, and a regulating hook secured to and extending from the rail and turned to pass in front of the upwardly extending portion of the jack, said hook being normally rigid but bendable to different positions, and said jack having a part extending away from its pivot and normally lying under the free end of the hook, substantially as and for the purposes described.

1,351,513. AUTOMOBILE-SIGNAL. DORÉ W. GRAZIER, Johnstown, Pa. Filed Feb. 24, 1920. Serial No. 360,738. 3 Claims. (Cl. 116—43.)



1. In a signaling device, a casing, an inner signaling member supported within the casing, said inner signaling member including side walls, said side walls having cut out portions indicating direction, end sections having offset portions providing seats for the side walls, connecting rods having connection with the end sections for securing the end sections in proper spaced relation, lamp sockets carried by the casing, said inner signaling member adapted to rotate on said lamp sockets, means for moving the inner signaling member in one direction, and means for returning the inner signaling member to its normal position.

1,351,514. FIRE-ALARM SYSTEM. SIMON B. HESS, New York, N. Y. Filed Apr. 24, 1917. Serial No. 164,152. 7 Claims. (Cl. 177—367.)

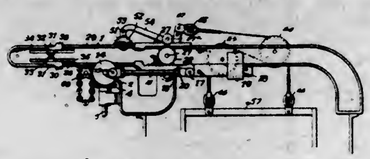


5. An electric signaling system comprising a bell loop, a station loop, two sources of energy, and means controlled by said station loop in one condition thereof for connecting each loop to a separate one of said sources and in another condition of said station loop for connecting both loops in series to one at least of said sources.

1,351,515. LOOM. BAPTISTE HILBERT, Worcester, Mass., assignor of one-half to George H. Hilbert, Worcester, Mass.; Julie L. Hilbert executrix of said Baptiste Hilbert, deceased. Filed May 19, 1914. Serial No. 839,639. 5 Claims. (Cl. 139—79.)

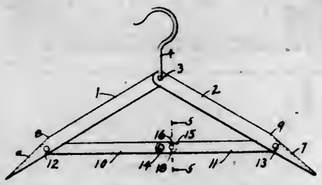
1. In a loom shedding mechanism, a pair of horizontally reciprocating rack bars on opposite sides of the machine, a crank journaled substantially in the plane of and operatively connected with one of said rack bars, means for continuously rotating said crank, a shaft extending transversely across the machine between said rack bars, gears attached to the opposite ends of said shaft engaging said rack bars, upper and lower knife

bars adjustably attached to said rack bars, jack racks engaging said knife bars to move the jack racks in



either direction from a central position, and means for returning the jack bars to a central position independently of their engagement by the knife bars.

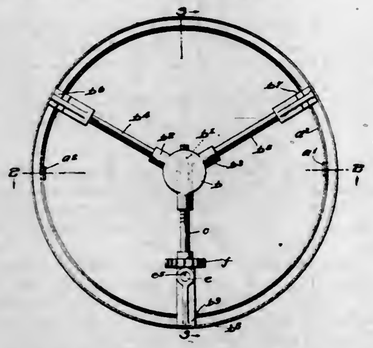
1,351,516. DISPLAY-FORM. HENRY HOFFMAN, East Rutherford, N. J. Filed June 7, 1920. Serial No. 386,940. 1 Claim. (Cl. 211—13.)





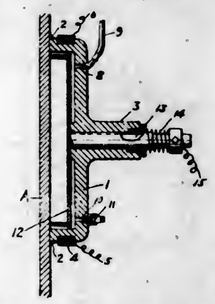
In a device of the class described, a pair of hinged members each consisting of a flat strip of metal having its edge bent at an angle to the main body portion at one end thereof, a second pair of members made of flat strips of metal hinged to each other and to said first pair, locking means for retaining said second pair in alined position and a hook adapted to support said device in the open position and to retain it in its closed position.

1,351,517. AUTO-TIRE-TUBE CARRIER. CHARLES JERABEK, Philadelphia, Pa., assignor to Louis Rothschild, Philadelphia, Pa. Filed Jan. 20, 1920. Serial No. 352,676. 4 Claims. (Cl. 224—29.)



1. An auto tire-tube carrier, comprising a yoke having shoes, each having a recess in one part and in the other a shiftable foot, for clenchingly engaging a rim of a tire-tube, a spindle engaging said yoke and provided with threaded and unthreaded portions and having a shoe with a shiftable foot, a sleeve mounted on said spindle and having a recessed shoe, a locking-means provided with a plunger and a notched ring threading with said spindle and arranged to permit the plunger of said means to engage a notch of said ring, substantially as and for the purposes described.

1,351,518. CUTTING HOLES IN SHIPS' WALLS. WALTER J. JONES, New York, N. Y., assignor to B. B. Chichester, Leighton P. Stradley, and Harry A. Stone, trustees under a Massachusetts Trust. Filed Dec. 24, 1919. Serial No. 347,222. 3 Claims. (Cl. 219—8.)



1. Apparatus for cutting holes in submerged ships' walls comprising the combination of a cup-shaped chamber, holding-on electro-magnets for the chamber, inlet and outlet connections for the interior of the chamber, and an electrode mounted in the chamber, substantially as described.

1,351,519. WRENCH. CHARLES L. KELLY, Detroit, Mich. Filed Dec. 24, 1919. Serial No. 347,132. 5 Claims. (Cl. 81—130.)

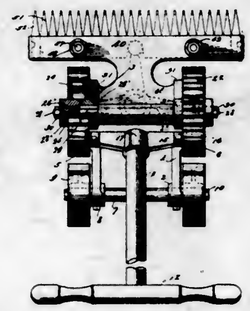


4. In a wrench, a bar, a jaw member positioned at an angle to the length of the bar and located at one end of the bar, a movable jaw member located above the bar and movable toward or away from the fixed jaw member, interengaging means on the movable jaw member and the bar for holding the movable jaw member in any one of a number of positions against movement away from the fixed jaw member, and spring means associated with the movable jaw member tending to move the same away from the fixed jaw member, and also yieldingly maintain said interengaging means in engagement, substantially as described.

1,351,520. LAWN-MOWER. JOSEPH N. M. KEYZER, Lynchburg, Va., assignor to Southern Electro Steel Company, Inc., Lynchburg, Va., a Corporation of Virginia. Filed Sept. 30, 1919. Serial No. 327,450. 10 Claims. (Cl. 56—263.)

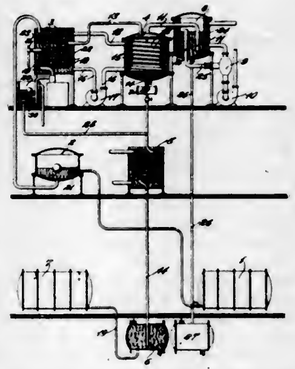
1. A lawn mower comprising a frame composed of two complementary members having oppositely disposed bosses pierced with bearings, a main shaft reduced near each end to form a shoulder, continued beyond the shoulder in a trunnion mounted through one of said bearings, and reduced beyond the trunnion, a pair of main wheels each having a hub with a bore to fit on a reduced portion of the shaft against a boss on one of said members, means

for fastening the hub on the shaft, a cutting apparatus, and a housing carrying said apparatus, its ends being held removably by said members while the latter are held in their normal positions by said shoulders and hubs.



6. In a lawn mower, the combination with a frame, a main shaft therein, drum wheels on said shaft, and cams within their peripheries; of a housing carried by said frame, a cutting apparatus carried by the housing, a stud within said housing, a three-arm rocker having a ring mounted on said stud, its front arm connected with said apparatus and its lateral arms projecting into said drum wheels, and pawls mounted on the extremities of the lateral arms and alternately engaged by the cams in the wheels to rock the driving mechanism when the wheels rotate forwardly.

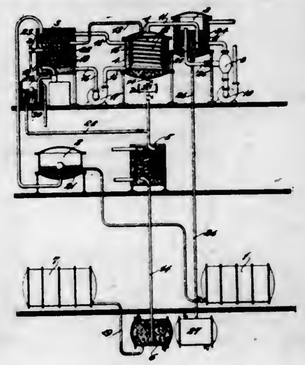
1,351,521. PROCESS OF DEALCOHOLIZING LIQUIDS. WILLIAM KOEDDING and WILLIAM J. LEMP, St. Louis, Mo. Filed Feb. 21, 1917. Serial No. 150,024. 6 Claims. (Cl. 195—1.)



6. The process of de-alcoholizing beer which consists in maintaining a fair degree of vacuum in a vacuum chamber, heating the beer in a pipe system to a temperature in the neighborhood of that required for evaporation in said vacuum chamber and in passing said beer in a continuous stream slowly through said chamber, and maintaining the beer while passing through said chamber at a temperature high enough to evaporate most all of the alcohol but low enough to avoid impairing the other contents of the beer.

1,351,522. APPARATUS FOR TREATING LIQUIDS. WILLIAM KOEDDING, St. Louis, and WILLIAM J. LEMP, county of St. Louis, Mo. Filed Apr. 14, 1917. Serial No. 162,046. 7 Claims. (Cl. 195—1.)

5. An apparatus for treating liquids comprising a water jacketed evaporating tank having an open helical V-shaped trough formed on the wall thereof opposite said jacket, means outside of said jacket for heating and circulating heated water through said jacket, a suction device connected to said evaporating tank, means for delivering liquid on to the upper portion of said trough, and means for removing the liquid from the lower portion of said tank, a surface condenser in the suction system and means for draining off the liquid condensed in said condenser.



1,351,523. STATION-INDICATOR. MARTIN M. KOVAL, Heilwood, Pa., assignor of one-half to Frank Muller, Warren, Ohio. Filed Jan. 19, 1920. Serial No. 352,261. 1 Claim. (Cl. 40—86.)

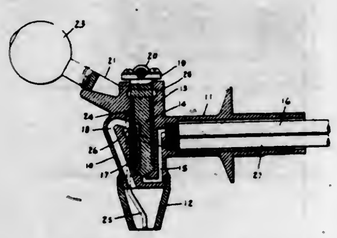


A device of the class described comprising a frame, a cover for said frame, a partition therein dividing said frame into two compartments, a drum mounted in the lower portion of one of said compartments, a second drum mounted in the upper portion of the same compartment, shafts upon which said drums are loosely mounted, a clutch on each of said shafts for locking or releasing said drums upon their respective shafts, a clutch-operating handle extending from each of said clutches and passing out from said frame, the upper of said drums being provided with a notch in the periphery thereof, a pawl adapted to releasably engage said notch, a spring normally urging said pawl against the periphery of said drum, a cord attached to said pawl and passing outward from said frame, a gear mounted rigidly upon the shaft of said first-named drum and located in the other of said compartments, a spring motor adapted to rotate said last-named shaft, a pinion rigid to the shaft of said last-named drum, gears connecting said first-named gear with said pinion, a tape wound partly upon each of said drums, an opening in said frame, and legends printed on said tape adapted to appear singly behind said opening.

1,351,524. FAUCET. WILLIS E. LA RUE, Indianapolis, Ind., assignor of one-half to William P. Hall, Indianapolis, Ind. Filed Oct. 28, 1919. Serial No. 334,051. 6 Claims. (Cl. 225—23.)

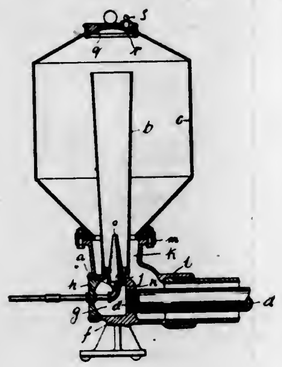
1. A faucet structure having a valve chamber therein with a valve seat, a liquid inlet communicating with said

chamber through said valve seat, an outlet communicating with said chamber, a reciprocatory valve plunger adapted to seat in said valve seat having a passage there-



through for opening and closing the communication between said inlet and outlet, and means for preventing leakage from said faucet when said valve is closed.

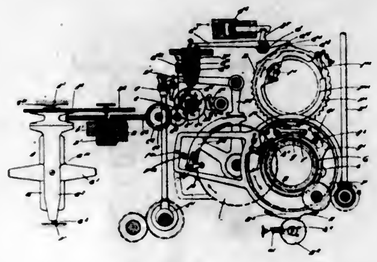
1,351,525. HEATING-STOVE BURNING GAS OR THE LIKE. FREDERICK MACKENZIE LEA, Birmingham, England. Filed Oct. 31, 1918. Serial No. 260,562. 3 Claims. (Cl. 126—85.)



1. An improved heating stove for burning gas in the presence of air, comprising in combination a burner chamber, a gas burner arranged therein, an air pipe leading to said burner chamber, an outer chamber having a seating at the top, a chimney outlet from said burner chamber above said burner, and within but closed from said outer chamber, a closed casing of larger volume surrounding said chimney and secured on the seating of said outer chamber, said casing having free communication with the interior of said outer chamber, and said outer chamber having an outlet pipe for the products of combustion communicating therewith, said products rising in said chimney and being received in said casing and having their exit through said outer chamber below said casing.

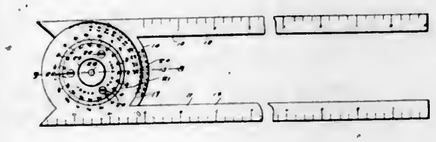
1,351,526. AUTOMOBILE TORPEDO. EDGAR LEES and HERBERT WHEATLEY RIDSDALE, Weymouth, England, assignors to The Whitehead Torpedo Works (Weymouth,) Limited, Weymouth, England. Filed June 6, 1919. Serial No. 302,367. 7 Claims. (Cl. 114—23.)

1. An automobile torpedo of the kind set forth, wherein means are provided for causing relative movement to occur between the controlling valve and the valve seating the said means embodying a cam which remains dormant



until the torpedo has run a predetermined distance after launching.

1,351,527. DRAFTSMAN'S PROTRACTOR. DAVID CABRERA LOPEZ, Chicago, Ill. Filed Sept. 13, 1919, Serial No. 323,468. Renewed July 22, 1920. Serial No. 398,285. 5 Claims. (Cl. 33—117.)

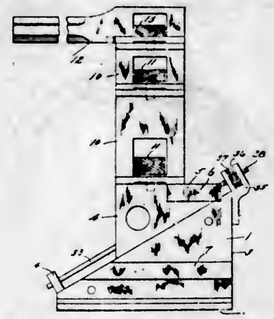


1. A protractor comprising sections each having an arm, a head carried by each arm, the head of one arm being provided with a central opening undercut and the head being further provided with a circular seat in its upper face positioned about the central opening and in spaced relation thereto to provide a collar about the opening, the head of the second arm fitting into the seat of the first head and provided with a central opening receiving the collar of the first head, a disk secured upon the collar of the first head and providing a dial overlapping the outer face of the second head to rotatably hold the second head in engagement with the first head, said dial being provided with a central opening registering with the central opening of the first head, and said dial being provided with scale markings about its periphery coöperating with corresponding scale markings adjacent the inner edge of the second head and the second head being provided adjacent its outer periphery with scale markings coöperating with the scale markings upon the outer face of the first head, a fastener having a screw provided with a head fitting into the undercut opening of the first head, a collar carried by the head of the screw and fitting into the opening of the dial, a threaded stem extending from the collar, a locking washer upon the threaded stem engaging the disk, and a securing nut screwed upon the threaded stem and engaging the locking washer.

1,351,528. GAGE. ALBERT W. MARTIN, Columbus, Ohio. Filed Jan. 4, 1919. Serial No. 269,551. 5 Claims. (Cl. 33—162.)

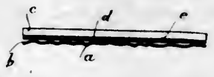
1. In a gage, a triangular base member including a recess formed therein and an inclined edge, a slide member movably positioned upon said edge, a shouldered projection rigidly depending from said slide member and arranged to be slidably received within the recess formed in said base member, a plate adjustably located within said

recesses, said plate being provided with a shoulder arranged for coöperation with said projection, and means



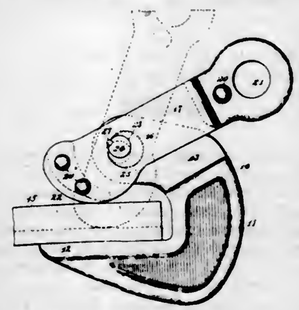
operating to raise and lower said plate so as to release or clamp said slide member in its adjusted positions with respect to said base member.

1,351,529. METHOD FOR PRODUCING IMITATION OF MOTHER-OF-PEARL. EMILE MAUVILLIN and VICTOR GUILLET, Courbevoie, France. Filed May 11, 1914. Serial No. 837,876. 2 Claims. (Cl. 41—22.)



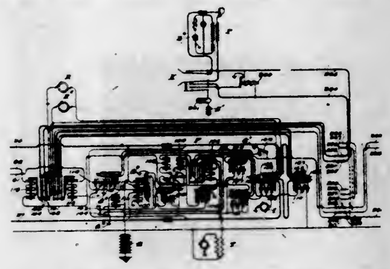
1. Article presenting the appearance of mother of pearl formed by: an iridized and irregularly undulated surface, a ground diffuser screen placed on said surface and a glass plate itself placed on said screen and provided on its lower surface with designs or letters having parts alternately opaque and transparent.

1,351,530. LIFTING-CLAMP. CASPER D. MEALS, Trenton, N. J., assignor to Reading Steel Casting Company, Reading, Pa., a Corporation of New Jersey. Filed Sept. 16, 1919. Serial No. 324,103. 10 Claims. (Cl. 294—101.)



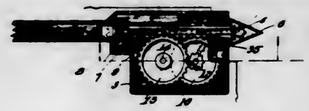
1. A lifting clamp comprising a frame composed of connected overhanging arms, the one arm being formed as an abutment and the opposite arm reduced to thickness and provided with a pivot opening extending therethrough, a clamping lever composed of two side sections forming a slot therebetween receiving the reduced arm within said slot, a pivot pin engaging openings provided in the side sections of said clamping lever and within the arm of the frame, the lower extremity of the clamping lever provided with a cam face and the opposite extremity of the lever provided with means for securing it to a lifting member.

1,351,531. AUTOMATIC TELEPHONE SYSTEM. TRYGVE E. MEYER, Lombard, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 9, 1916, Serial No. 77,216. Renewed Jan. 29, 1919. Serial No. 273,888. 41 Claims. (Cl. 179—17.)



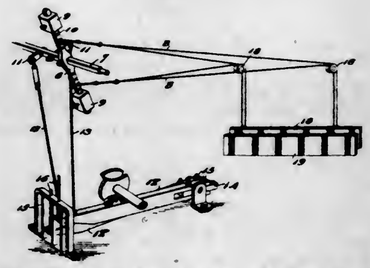
35. In a telephone system, an automatic connector switch, a party line accessible to said connector via as many paths as there are stations on the line, means for operating said connector to connect with said line, and means operated automatically when the connector is seized for predetermining over which path the connection is to be established.

1,351,532. SIGNALING DEVICE FOR VEHICLES. PETER J. O. MUELLER, Peoria, Ill. Filed Dec. 31, 1917. Serial No. 209,747. 3 Claims. (Cl. 116—50.)



1. In a vehicle signal, a casing, a signal arm movable relative to the casing, rack teeth borne by the arm, a shaft in the casing, a pinion on the shaft, a gear on the shaft in mesh with said rack teeth, a spring coiled on the shaft and connected to the gear and casing so as to be wound upon movement of the gear in one direction, a second shaft slidable in the casing, a gear on the second shaft in mesh with said pinion, means to rotate and slide the second shaft, and a coil spring coiled on the second shaft and abutting the gear thereon and the casing to hold the second gear normally in mesh with said pinion.

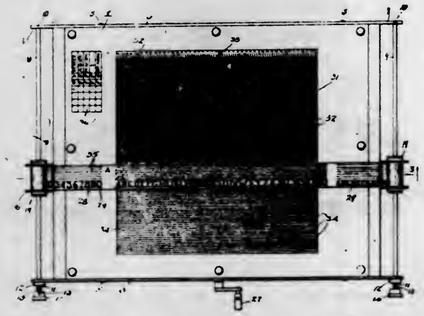
1,351,533. HATBAND-LOOM. AUGUST MUELLER, New York, N. Y. Filed Aug. 20, 1919. Serial No. 318,700. 2 Claims. (Cl. 139—78.)



1. The combination with a shaft, of adjustable arms thereon, treadles, and connecting wires between the arms

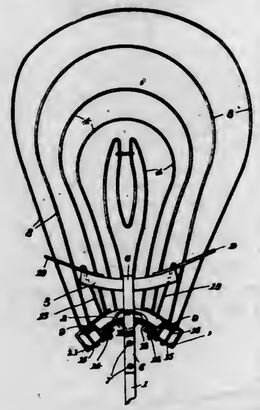
and treadles whereby the arms are operated by the reciprocal movements of the treadles, supports for the treadles comprising loosely mounted vertical slidable bolts and springs coiled around the bolts, said bolts being mounted in an angular frame, and the ends of the treadles engaging under the bolts.

1,351,534. DRAFTING APPLIANCE. ROBERT H. PERDUE and LEROY W. THEIS, Cleveland, Ohio. Filed Oct. 17, 1919. Serial No. 331,393. 9 Claims. (Cl. 35—12.)



1. In a drafting appliance, the combination of a board, provided with a form having both transverse and longitudinal spacings, a character strip mounted over said board, said strip and board being capable of both longitudinal and transverse relative movement, said strip having characters thereon, the size of said characters bearing a direct relation to said spacings.

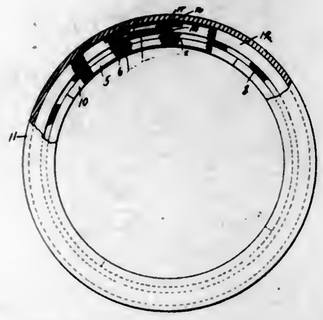
1,351,535. CARPET-BEATER. JOHN O. PIERCE, New York, N. Y. Filed Aug. 22, 1918, Serial No. 250,934. Renewed Jan. 28, 1920. Serial No. 354,752. 11 Claims. (Cl. 15—8.)



1. The combination with a basic carpet beater, of additional bows, and means for detachably fastening said bows to the basic beater in line with its bows to increase the size of said beater.

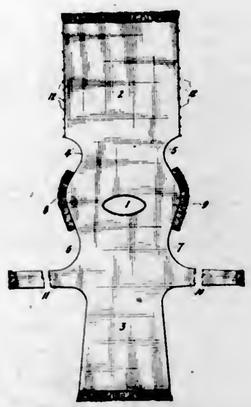
1,351,536. CUSHION-TIRE. JOHN M. RAMAGE, Uniontown, Pa. Filed Nov. 6, 1919. Serial No. 336,151. 1 Claim. (Cl. 152—8.)

In a cushion tire, a plate longitudinally and laterally curved having its ends overlapping to form a casing support, arms secured to the plate near each end, the said arms being arranged near opposite edges of the said plate, the arms at one end of the plate projecting toward the arms near the opposite end of the plate, sets of links, the links of each set being pivotally connected, means for



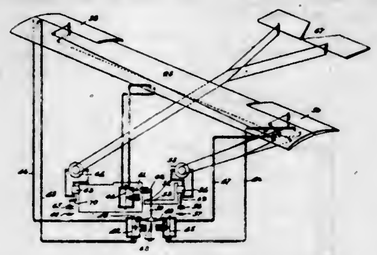
pivotally connecting the end links of each set to the oppositely disposed arms of the plate for flexibly connecting the two sets of arms, and means for yieldingly supporting the plate.

1,351,537. WEARING-APPAREL, PARTICULARLY RELATING TO GOWNS, DRESSES, COATS, AND THE LIKE. LEONIE SOPHIA REYNARD, London, England. Filed Sept. 29, 1919. Serial No. 327,076. 2 Claims. (Cl. 2—145.)



2. A full length external garment for women's wear comprising a piece of material, the general outline of which when laid out flat is rectangular and of greater length than breadth, said material having an approximately central aperture through which the wearer's head is to be passed to permit said material to fall in front and at the rear of the wearer, the hanging front portion being of a width to permit its two side edges to meet together approximately centrally when drawn together at the back of the wearer underneath the hanging back portion, coöperating fastening devices to connect together the said meeting edges of the said hanging front portion, and two laterally extending tongues rearward of said aperture one extending from each side of said material to form a girdle to be brought around and secured in front of the wearer, and curved recesses to pass under the arms of the wearer and lateral extensions to lie over the shoulders of the wearer.

1,351,538. INDICATOR FOR FLYING-MACHINES. JOHN NEWBERRY REYNOLDS, Greenwich, Conn. Filed Sept. 29, 1917. Serial No. 193,901. 12 Claims. (Cl. 244—29.)



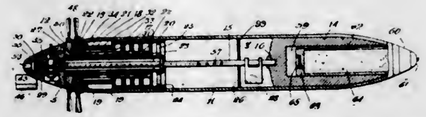
1. A flying machine having an aerofoil, means responsive to air reactions at a plurality of points on the aerofoil and due to that relative movement of the air and aerofoil, which produces the necessary lifting forces, and means operated by the average of said reactions for stabilizing the machine.

1,351,539. BOTTLE CAPPING AND CORKING TOOL. ADEN H. ROBERTS and GEORGE W. WHED, Waverly, N. Y. Filed May 20, 1920. Serial No. 382,851. 6 Claims. (Cl. 226—84.)



3. In a bottle capping device, the combination of two bottle clamping arms hinged together; a die-carrier arm hinged to one of said clamping arms and confined to swing substantially in a single plane with reference thereto; and a cap-applying die mounted on said die-carrier arm.

1,351,540. PROJECTILE. WILLIAM F. ROOS, Mamaroneck, N. Y. Filed Aug. 21, 1917. Serial No. 187,403. 13 Claims. (Cl. 102—2.)



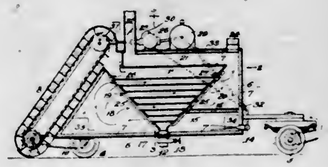
1. In a device of the class described, a projectile having a gas chamber, a gas-operated projecting device for said projectile and means for conducting a part of the projecting gas to said chamber and storing it there for use in propelling said projectile.

1,351,541. COKE-HANDLING APPARATUS. WILLIAM F. RUST, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 4, 1919. Serial No. 328,571. 5 Claims. (Cl. 214—18.)



1. In a coke-handling apparatus, in combination with a coke-oven battery; a quenching-car movable lengthwise of said battery; a coke-wharf positioned adjacent to said battery for receiving freshly quenched coke discharged from said quenching-car; an endless conveyer positioned for receiving and carrying away coke discharged from said coke-wharf; a coke storage pit located adjacent to said battery and also adapted to receive freshly quenched coke discharged from said quenching-car; a hopper in juxtaposition to said coke-pit; means for feeding coke from said pit into said hopper; and another endless coke conveyer leading from said hopper to said first-named conveyer, whereby coke deposited in the hopper may be advanced to said first-named conveyer; substantially as specified.

1,351,542. SNOW REMOVING AND MELTING MACHINE. JOHN J. RYAN, Bayonne, N. J. Original application filed Jan. 28, 1919, Serial No. 273,612. Divided and this application filed June 21, 1919. Serial No. 305,853. 7 Claims. (Cl. 126—343.5.)



1. A snow removing and melting machine, comprising a tank vehicle, a snow receptacle located in the tank body and having its front and back walls and the lower parts of its sides inclined, a discharge spout at the apex of the inclined walls and sides, a combustion chamber at the lower part of the front of the tank body, burners in said chamber, a chamber at the rear of the tank body communicating with the combustion chamber around the lower part of the snow receptacle, a chimney chamber above the combustion chamber, and flues arranged fore and aft through the snow receptacle for the products of combustion to pass from the rear chamber to the chimney chamber.

1,351,543. SHOE-HEEL. AGOSTINO SANTACROCE, Cleveland, Ohio. Filed Feb. 26, 1920. Serial No. 361,605. 7 Claims. (Cl. 36—35.)

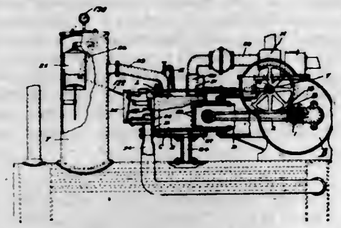


1. A heel comprising a hollow skeleton cage with a top plate, an attaching plate adapted to be secured to the shoe, and attached to said top plate, and a filling of rubber in said cage and projecting below the bottom thereof.

1,351,544. ENGINE. GEORGE W. SWARTZ, Peoria, Ill. Filed Oct. 21, 1916. Serial No. 126,858. 6 Claims. (Cl. 123—6.)

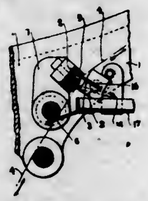
2. In an internal combustion engine, a cylinder and piston operable therein, means for supplying a charge of combustible gas to the cylinder for certain power strokes of the piston, means for supplying a charge of hot water into the cylinder for certain other power strokes of the

piston which alternate with the intervals during which the gas is supplied, and means for supplying a scavenging charge of air to the cylinder between the charges of gas



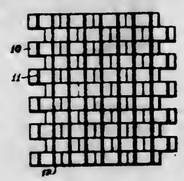
and hot water whereby the saturated atmosphere within the cylinder will be exhausted prior to a succeeding charge of gas.

1,351,545. INK-SAVING DEVICE FOR INTAGLIO PRINTING AND EMBOSSING PRESSES. FRED WAITE, Otley, near Leeds, England. Filed Feb. 11, 1920. Serial No. 357,992. 2 Claims. (Cl. 101—169.)



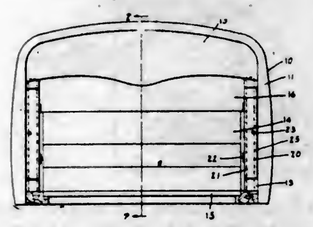
1. In ink saving devices of the scraper type for the recovery of ink from the wiping paper of intaglio printing and embossing presses; the combination with a scraper blade situated across the machine at one side of the paper, of a member situated across the machine at the opposite side of the paper and being formed with a longitudinal narrow groove or recess into which the scraper blade projects, and means for adjusting the position of the scraper blade to regulate the depth thereof in the groove or recess of the said member to cause the paper to be bent at an angle to an extent sufficient to keep the contact between the scraper blade and the paper practically uniform irrespective of the tension of the paper behind.

1,351,546. WOOD-BLOCK PAVING. GEORGE W. WARMOTH, Indianapolis, Ind. Filed Oct. 4, 1918. Serial No. 256,850. 5 Claims. (Cl. 94—13.)



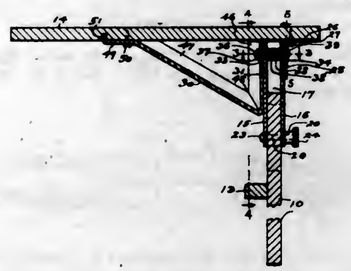
1. A pavement or flooring formed of rows of blocks, each row comprising a plurality of identically shaped blocks adjacent each other, each block having a plurality of transversely extending and parallel kerfs angular in cross section cut in the under side thereof and intermediate the ends, the kerfs in the diagonally adjacent blocks in the adjacent rows registering with each other, and strips angular in cross section inserted in said kerfs for securing the blocks together as a pavement.

1,351,547. CURTAIN COMPARTMENT FOR AUTOMOBILES. JOHN W. APPLIN, Indianapolis, Ind., assignor to La Fayette Motors Company, a Corporation of Delaware. Filed Dec. 13, 1919. Serial No. 344,693. 5 Claims. (Cl. 296—37.)



1. In combination with the driver's space of a motor vehicle having a floor, a foot board extending forwardly of and upwardly from said floor, and a cowl forming the sides and top of said space, of a vertical compartment mounted in a side of said space, said compartment extending forwardly from the floor and below the upwardly extending surface of said foot board for inclosing a space adapted to receive curtains, and a door for said compartment and opening into the driver's space for permitting curtains to be inserted therein, said door being positioned between the upwardly extending foot board and the compartment portion nearest the driver's seat.

1,351,548. TABLE ATTACHMENT FOR SEATS. KENNETH S. BASKIN, Cleveland Heights, Ohio. Filed May 3, 1920. Serial No. 378,360. 12 Claims. (Cl. 155—128.)



1. The combination, with a seat, a standard at the forward end and one side of the seat, a support adjustable up and down said standard, means for securing said adjustable support in the desired adjustment, and a table extending over said adjustable support and arranged in the main at the laterally inwardly facing side of and pivotally connected to said support and movable, when free to be readjusted, circumferentially of its axis, from a substantially horizontal position into an inclined position or vice versa, of a brace arranged under said table and secured to the table at a point spaced laterally inwardly from the aforesaid adjustable support and extending from the table downwardly to said side of said support, said brace being pivotally connected to said adjustable support and having its axis coincident with the axis of the table, said table and said brace being adjustable rearwardly and forwardly in a substantially horizontal plane, and means for securing the brace and the table to said adjustable support in the desired adjustment of the table

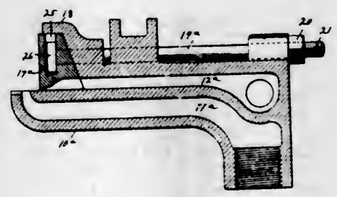
in relation to said support, the last-mentioned securing means and the aforesaid axes being in the same horizontal plane.

1,351,549. FISHING-REEL. LAWRENCE BENSON, Kokomo, Ind. Filed Oct. 21, 1919. Serial No. 332,160. 3 Claims. (Cl. 242—84.5.)



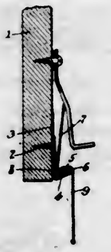
1. A fishing reel including a spindle having a shoulder at one end thereof and with the outer end threaded and an intermediate angular portion, a reel plate, a hub mounted on the round portion of said spindle with one end bearing against said shoulder and with the other end secured to said plate, a yielding washer with an angular opening mounted on the angular portion of said spindle and engaging the outer side of said plate, a nut on the threaded end of said spindle with an inwardly extending sleeve recessed so that when the nut is screwed inwardly it will not engage the angular portion of said spindle, and a spiral spring surrounding said sleeve with one end bearing against the nut and the other end bearing against said washer.

1,351,550. BURNER. ANNIE H. BEST, Brooklyn, N. Y., assignor to W. N. Best, Inc., New York, N. Y., a Corporation of New York. Filed June 3, 1919. Serial No. 301,523. 7 Claims. (Cl. 158—78.)



5. A burner including a body portion, having a fuel passage therethrough terminating in an upwardly facing outlet, an expansive fluid passage terminating in a recess adjacent to but in the rear of said outlet, a nozzle piece within said recess, and a bolt extending lengthwise of said burner and connected to said nozzle piece outside of said expansive fluid passage for retaining said nozzle piece in position.

1,351,551. FABRIC-CLAMP. ROY W. BIDDLECOM, Los Angeles, Calif., assignor to L. B. Girard, Los Angeles, Calif. Filed Dec. 16, 1919. Serial No. 345,374. 4 Claims. (Cl. 24—259.)



1. A fabric clamp comprising a strip having one longitudinal edge bent and doubled back to form a groove and a second strip having one longitudinal edge bent to form an angular tongue, said tongue interfitting within said groove to grip a fabric interposed between said strips.

1,351,552. PENCIL. JOHN BAICKEN, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed July 19, 1918. Serial No. 245,759. 2 Claims. (Cl. 120—18.)



1. In a pencil of the type described, a barrel or storage chamber, a plug in the outer end thereof provided with an outwardly opening socket, a spring pronged element designed to fit within said socket and adapted to project outwardly beyond the end of said barrel, a strip of flattened lead designed to fit between said prongs and to be held thereby against rotation, a rotatable cap fitting over said prongs and held thereby, and a screw-threaded aperture in one end of said cap designed to receive one end of said lead and to feed the same inwardly or outwardly, the screw threads formed on said lead by said feeding operation serving to maintain the same against accidental longitudinal displacement.

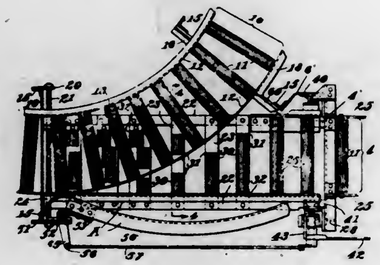
1,351,553. SUSPENDERS. WAITMAN D. CORDER, Philippi, W. Va. Filed Feb. 18, 1920. Serial No. 359,641. 3 Claims. (Cl. 267—71.)



1. A suspender comprising an inelastic webbing shaped to form a pocket which has eyes formed in its lower end, a member depending within said pocket, a bar suspended upon said member at the lower end of said pocket, said

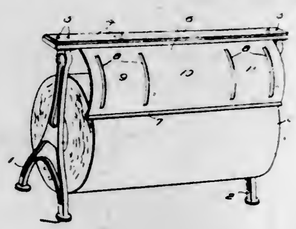
bar having eyes in its opposite ends in register with the eyes in said pocket, a looped cord with its loop-end located outside said pocket and having its opposite end portions extending through the registering eyes of said pocket and said bar into the interior of said pocket, means connecting the upper ends of said end portions, and coil compression springs encircling said end portions and interposed between said connecting means and said bar.

1,351,554. CONVEYER. JAMES T. COWLEY, Minot, Mass., assignor to The Lamson Company, Boston, Mass., a Corporation of New Jersey. Filed Dec. 14, 1918. Serial No. 266,712. 18 Claims. (Cl. 193—1.)



1. A conveyer having therein a track or way adapted to contact with, support and direct loads moving thereon by the action of a force on the load, in combination with a branch track or way, and means adapted to contact with, support and differently direct the load adjustable into and out of position to coact with the load at a number of different places distributed throughout the region of juncture of said main and a branch track or way to remove the load at said region from operative contact with said main track or way and direct the load to or from the main track or way.

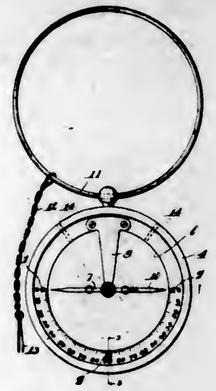
1,351,555. ROLL-PAPER GUARD AND CUTTER. HAROLD B. CRANSHAW, Boston, Mass. Filed July 28, 1919. Serial No. 313,794. 5 Claims. (Cl. 211—32.)



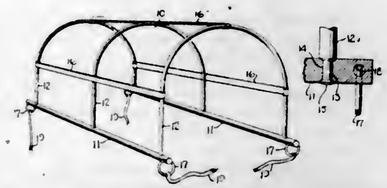
1. In a roll paper dispenser, a paper cutter comprising a relatively wide curved guard member, the lower edge of said guard member being bent to provide a cutting blade, and integral, transverse card holding ribs struck up from said gurd and disposed in pairs, said ribs serving simultaneously as stiffening members and as guides for retaining display cards upon the face of said guard.

1,351,556. INSTRUMENT FOR LOCATING BURIED OBJECTS. WILLIAM S. DARLEY, Chicago, Ill. Filed Mar. 19, 1918. Serial No. 223,346. 3 Claims. (Cl. 33—222.)

1. A device of the class described comprising a casing: a magnetic needle pivotally mounted in said casing, there being an opening in the wall of said casing registering with the path of movement of said needle; and a retaining device insertible through said opening to engage the point of said needle to prevent rotation thereof, substantially as described.

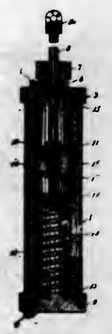


1,351,557. BEDCLOTHES-SUPPORT. LAURA M. DOBBINS, Orange, N. J. Filed Mar. 19, 1920. Serial No. 367,053. 2 Claims. (Cl. 5—41.)



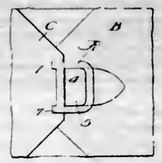
2. In a bed clothes support, a pair of substantially parallel base members, hoops pivoted thereto in the neighborhood of each end, an intermediate shorter hoop, and longitudinally extending members pivoted to each of the hoops, whereby the sides are left substantially unobstructed and the support can be folded flat when out of use.

1,351,558. SHOCK-ABSORBER. DAVID W. DURBIN, Bridgeville, Pa. Filed Oct. 15, 1919. Serial No. 330,902. 6 Claims. (Cl. 267—8.)



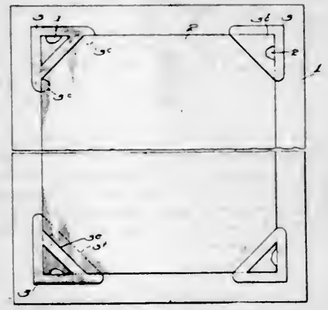
6. In a shock absorber, a cylinder, removable heads closing the ends of the cylinder, a liner removably mounted in the cylinder consisting of two sections, detachably secured together at their inner ends, the upper section having a bore tapering from its inner end, the lower section having a similar tapering bore and in addition a straight bore in its lower end, a rod slidable through one of said heads, a spherical piston secured on said rod and operable in the bore of the liner, said piston having a diameter approximately equal to that of the liner at the points corresponding to the upper and lower extreme positions of said piston, a coil spring located below said piston and means for guiding said spring axially relatively to said rod.

1,351,559. GUMMED SEAL. ALBERT W. ENGEL, Chicago, Ill. Filed Aug. 29, 1919. Serial No. 320,707. 3 Claims. (Cl. 229—79.)



1. An envelop sealing device consisting of a flap having a relatively narrow terminal, in combination with a seal for the envelop consisting of a sheet of material having a slit through which the terminal of the flap extends, the flap being gummed at its inner side to the end of the terminal, and the dimensions of the seal, the length of the slit and the width of the terminal being so proportioned that the terminal protruding through the slit extends beyond the portion of the seal which is overlapped for adhering to the envelop body beyond the seal.

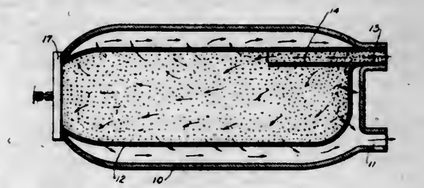
1,351,560. PICTURE-MOUNTING DEVICE. ALBERT W. ENGEL, Chicago, Ill. Filed Aug. 29, 1919. Serial No. 320,708. 4 Claims. (Cl. 40—156.)



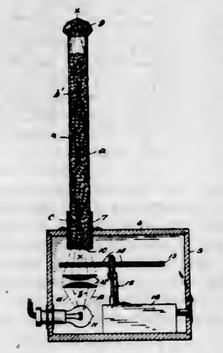
3. A picture or card mounting device, consisting of a corner piece gummed on one side, and having a corner embracing aperture two adjacent sides of which form an angle equal to that of the corner of the card or picture to be mounted, and having at intervals from said aperture along the lines, respectively, of the sides of said angle produced, portions extending from said lines inward for engaging back of the card or picture.

1,351,561. DUST-COLLECTING BAG FOR CLEANING APPARATUS. WILLIAM W. FARNSWORTH, Littleton, Colo. Filed Apr. 8, 1920. Serial No. 372,251. 6 Claims. (Cl. 183—44.)

1. An impurities collecting bag or sack for cleaning apparatus embodying an outer casing constructed of flexible material impervious to air and having a discharge outlet, a partition in the sack through which the air currents may pass to remove the impurities from the air before the air passes through the said outlet, and an inlet for conveying the impurities-laden air into the bag or sack, the said inlet and outlet being out of communication with each other except through the said partition.

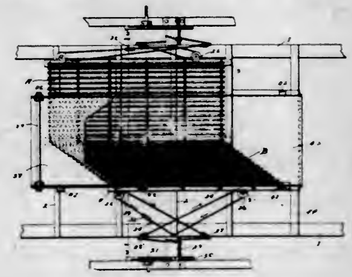


1,351,562. ILLUSION APPARATUS. DONOVAN FOSTER, Seattle, Wash., assignor of one-fourth to J. B. Wadman, Seattle, Wash. Filed Sept. 10, 1919. Serial No. 322,801. 5 Claims. (Cl. 240—1.)



1. An optical illusion apparatus comprising a cabinet provided with an opening, a transparent glass rod connected to said cabinet at the opening thereof, an object on the end of said rod remote from the cabinet, said object being provided with a light diffusing surface and a source of light provided within said cabinet and arranged in alinement with the axis of said rod.

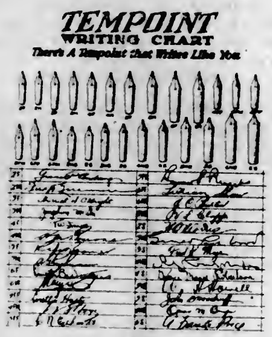
1,351,563. ADJUSTABLE BAR-COAL SCREEN. JAMES C. GASKILL, Fairmont, W. Va. Filed Feb. 6, 1920. Serial No. 356,717. 10 Claims. (Cl. 83—56.)



1. In a device of the class described, a frame, comprising side beams and transversely disposed I-beams, a stationary, central, longitudinal supporting beam, trans-

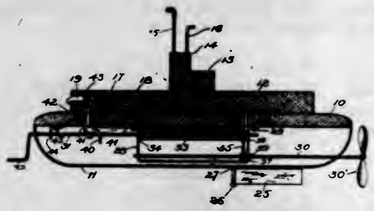
verse lug-carrying members pivotally supported upon the stationary central longitudinal beam, additional longitudinal beams pivotally supporting the outer ends of said transverse members, a multiplicity of spaced parallel bars, and lugs carrying said bars, said lugs being mounted upon said transverse lug-carrying members, and said additional longitudinal beams being slidably supported by said transverse I-beams, as and for the purpose set forth.

1,351,564. CHART FOR FOUNTAIN-PENS. WILFRED E. GERRY, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 24, 1919. Serial No. 284,885. 2 Claims. (Cl. 283—1.)



1. In a chart for the selecting of pen nibs, the combination of a plurality of specimens of handwriting, a directive legend associated with each specimen of handwriting, and an illustration of various styles of pen nibs, each pen nib being suitable for use with one of the styles of handwriting and having associated therewith a legend corresponding to the legend associated with the style of handwriting intended to be written by said pen nib.

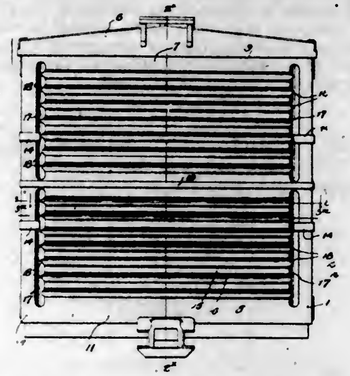
1,351,565. TOY SUBMARINE. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed May 13, 1918. Serial No. 234,200. 9 Claims. (Cl. 46—37.)



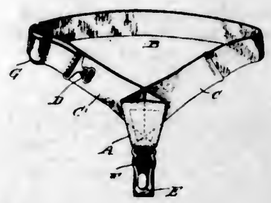
1. A toy submarine, having a hull, a deck upon said hull, said deck having a torpedo-receiving opening in one end thereof, a spring operated propeller for said submarine, and means controlled by the tension of said spring for releasing a torpedo from said torpedo-receiving opening, said means including a shaft for placing said spring under tension.

1,351,566. METAL CAR END. CHARLES F. GILES, Louisville, Ky., assignor, by mesne assignments, to Walter P. Murphy, Chicago, Ill. Filed May 8, 1916. Serial No. 96,071. 13 Claims. (Cl. 105—410.)

1. A metal facing member for railway cars comprising a metal sheet constructed for attachment to vertical and horizontal portions of the car body, with its main area shaped with horizontal corrugations extending nearly to the vertical margins of the sheet, and with vertical corrugations near said vertical margins lying transversely across the ends of the horizontal corrugations; there being a plurality of said vertical corrugations at each end of the horizontal corrugations; one of the vertical corrugations being merged with ends of the horizontal corrugations, and the adjacent vertical corrugation being spaced from said merged corrugation.

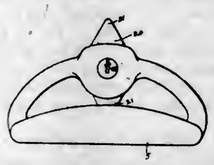


1,351,567. GARTER. ROBERT GORTON, Brookline, Mass.; Charles W. Noyes administrator of said Robert Gorton, deceased. Filed Oct. 7, 1919. Serial No. 329,072. 2 Claims. (Cl. 241—6.)



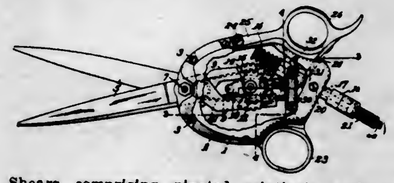
1. In a garter, a pad and leg-band parts formed from a single piece of material which is wider in its middle portion than at its ends and which is folded and secured to provide a pad reinforced at the back by folded portions of the blank, and parts extending upward and outward in opposite directions from the rear of the pad to provide portions of the leg-band.

1,351,568. LOCK FOR VEHICLE-DOORS. FRANKLIN H. HART, New Haven, Conn., assignor to C. Cowles & Co., New Haven, Conn., a Corporation. Filed Apr. 5, 1920. Serial No. 371,226. 3 Claims. (Cl. 70—91.)



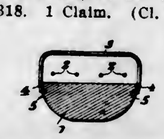
2. A lock for vehicle doors, comprising a handle provided with a shank and with a spindle, a transversely arranged key-operated locking-pin mounted in said shank, a hub connected with the handle, an escutcheon-plate coupled with the shank and adapted to be secured to the outer face of a vehicle door, said plate formed with locking-notches in the path of the said locking-pin, and with a forwardly projecting boss entering said hub, said plate formed with screw-holes whereby it may be secured in place, and the hub formed with a flange adapted to cover said screw-holes when the handle is in the locked position, and with clearance notches which will expose said holes when the handle is turned to an unlocked position.

1,351,569. POWER-OPERATED SHEARS. JESSE P. HEIL, Weeling, W. Va. Filed Jan. 2, 1920. Serial No. 348,826. 14 Claims. (Cl. 164—74.)



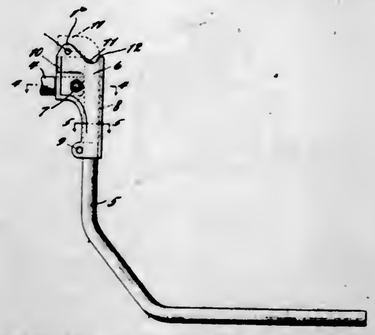
1. Shears comprising pivoted relatively reciprocable cutting blades, a flexible rotary power-transmission shaft, a worm driven by said shaft, a gear wheel adapted to be driven by said worm, means for shifting said worm into and out of driving relation to said gear wheel, a cam driven through rotation of said gear wheel, and means interposed between said cam and said blades whereby rotation of the former actuates the latter to oscillate.

1,351,570. FINGER-BOARD ATTACHMENT. THOMAS J. HEWITT, Grand Forks, N. D. Filed Oct. 8, 1918. Serial No. 257,318. 1 Claim. (Cl. 84—87.)



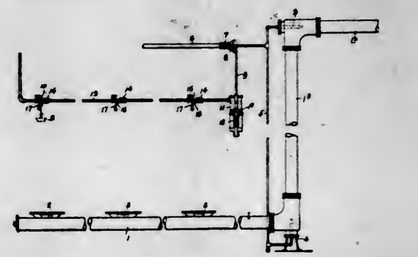
The combination, in a musical instrument, of a fingerboard, strings extending along the fingerboard, said fingerboard being provided with grooves in the side faces thereof, and visual indicators arranged at intervals along the fingerboard, each of said indicators comprising an arched cross bar of spring metal provided at its ends with transversely extending clamping plates, said plates having their inner faces provided with ribs engaging the aforesaid grooves.

1,351,571. SHIP'S DAVIT. HARRY B. HILLS, Tompkinsville, N. Y., assignor to Steward Davit & Equipment Corporation, New York, N. Y., a Corporation of New York. Filed June 30, 1920. Serial No. 392,998. 1 Claim. (Cl. 9—22.)



In a ship's davit in combination with the boom, an operating screw, a crank, and a connection between the crank and screw comprising a socket fixed to the screw in which the crank is vertically movable, and said socket being provided with two recesses in either of which the end of the crank may be placed.

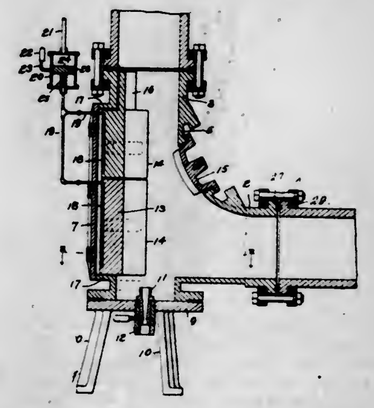
1,351,572. ASH-CONVEYER. JOHN M. HOPWOOD, Pittsburgh, Pa., assignor to The Hagan Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 11, 1917, Serial No. 174,038. Renewed Jan. 29, 1920. Serial No. 354,872. 4 Claims. (Cl. 193—10.)



1. In an ash conveying apparatus the combination of an open ended conduit having a plurality of spaced openings therein, a plurality of removable plugs for said openings, a nozzle for directing a jet of fluid under pressure into said conduit to establish a current of air therethrough, a valve controlling the flow of fluid to said nozzle, means for opening said valve, a plurality of means shiftable by the said plugs of the respective openings for controlling the valve operating means.

3. In an ash conveying apparatus the combination of an open ended conduit having a plurality of spaced openings therein, a plurality of removable plugs for said openings, a nozzle for directing a jet of fluid under pressure into said conduit whereby to establish a current of air through the conduit, a valve controlling the flow of fluid through said nozzle, a motor for normally holding said valve in closed position and adapted to be operated to open the valve by any of the plugs.

1,351,573. ASH-CONVEYER. JOHN M. HOPWOOD, Dormont, Pa., assignor to The Hagan Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 31, 1917, Serial No. 199,441. Renewed Jan. 29, 1920. Serial No. 354,873. 6 Claims. (Cl. 137—75.)



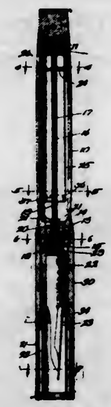
1. An elbow for an ash conveyer having in combination therewith a removable wearing block and means for indicating the cutting away of the block.

1,351,574. FOUNTAIN-PEN. CHARLES R. KEERAN, Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 2, 1917. Serial No. 159,198. 17 Claims. (Cl. 120—46.)



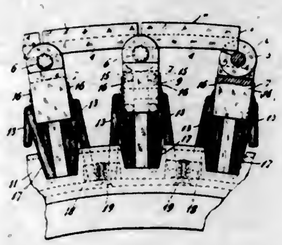
1. In a fountain pen, the combination of an elliptical casing the wall of which curves substantially from end to end of the casing, a pen, a feeding nib, an ink sack attached to said feeding nib, said ink sack being approximately of elliptical section similarly curving from end to end thereof, a flexible presser bar adapted to conform to the opposite curvatures of the casing wall, and a lever for operating said presser bar to deflate said sack.

1,351,575. FOUNTAIN-PEN. CHARLES R. KEERAN, Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed June 11, 1917. Serial No. 174,040. 14 Claims. (Cl. 120—42.)



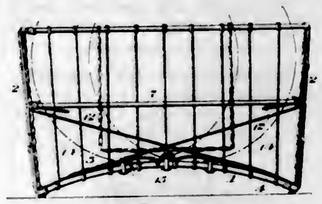
1. In a fountain pen, the combination of a casing, a valve seat at one end thereof, a valve having a stem extending longitudinally of the casing, a plug mounted in said casing and adapted to be moved longitudinally thereto, said plug having a projection extending into the interior of the casing, and means mounted on said valve stem and adapted to be engaged by said projection to manipulate said valve thereby when said plug is removed from the casing.

1,351,576. TIRE. ZACHARY KUTCHUK, Pittsburgh, Pa. Filed Apr. 3, 1919. Serial No. 287,274. 4 Claims. (Cl. 152—8.)



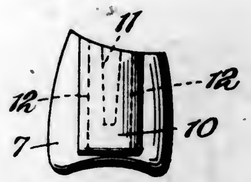
4. In combination, a flexible tread, brackets extending transversely of the tread and connected thereto, and pairs of coil springs of duplex type positioned adjacent the opposite sides of the respective brackets, said springs being secured at their intermediate portions to the annulus and at their ends to the brackets.

1,351,577. DISH DRIER AND HOLDER. ROSE LOMBARD, Cornelia, Ga. Filed Nov. 3, 1919. Serial No. 335,370. 2 Claims. (Cl. 141—11.)



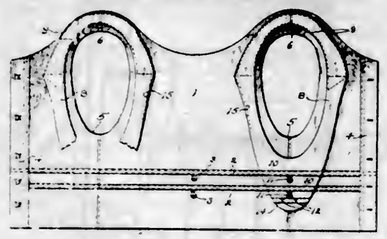
1. A drier and holder for dishes having opposite outer sides or walls provided with dish-retaining means, said drier being provided with an upwardly bowed or arched bottom, and dish-engaging means located in the region of the bottom and adapted to engage the lower parts of dishes while the sides of said dishes are engaged by the dish-retaining means on the sides of the drier, said bowed or arched bottom being adapted to cause the dishes to gravitate toward the said outer sides or walls and thereby cause the dishes to be held by the dish-retaining means.

1,351,578. ARTIFICIAL TOOTH. GEORGE A. LOUQUE, New Orleans, La., assignor to Carmelite Louque, New Orleans, La. Filed Mar. 2, 1920. Serial No. 362,648. 3 Claims. (Cl. 32—9.)



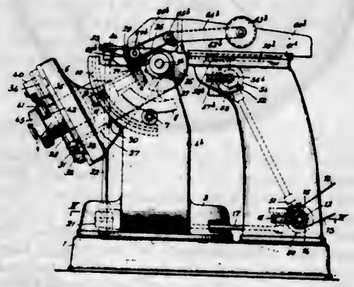
1. In an artificial tooth the combination of a body portion, a longitudinal central groove extending from the upper end of said body to a point slightly beyond the transverse center thereof, channels formed on the front and rear face of the body and on each side of the groove, and a support having a portion that seats in the groove, and further having portions that are connected together by the first named portion; said last named portions being so constructed and arranged that they rest in the channels of the body portion.

1,351,579. CHILD'S APPAREL-SUPPORTER. HARRIET MCELDOWNEY, Windsor, Ontario, Canada. Filed Sept. 14, 1918. Serial No. 254,060. 3 Claims. (Cl. 2—98.)



1. An apparel support comprising a body having arm holes and adapted to be secured about the wearer, annular oval-shaped supporting members each having an arm hole of greater dimensions than the arm holes of the body, said members being secured to the body throughout the portions thereof which extend over the shoulders of the wearer and downwardly to points midway of the arm holes in the body, said portions of said members which are secured to the body being positioned at a distance from the upper portion of the arm holes of the body to rest well upon the shoulders of the wearer and the unsecured portions of said members being free below the lower portions of the body arm holes to swing independently of the body, and means on the lower end portions of said members beneath the arm holes for the attachment of garments thereto.

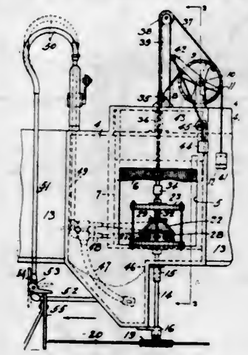
1,351,580. MACHINE FOR GENERATING BEVEL-GEARS. MAX MAAG, Zurich, and RICHARD FREY, Höngg, near Zurich, Switzerland. Filed Jan. 30, 1920. Serial No. 355,143. 13 Claims. (Cl. 51—52.)



1. A machine for generating the teeth of bevel wheels, comprising a movable table, a blank carrier adjustably mounted on said table, means adapted to move said table together with the blank carrier around an axis passing through the vertex of the pitch cone of the blank, means adapted to rotate the blank around its axis, the last mentioned means being operatively connected by means of a vertical shaft and flexible bands to said means adapted to move the table, means for varying the speed of said movement of the blank-shaft relatively to the speed of the movement of the table and means to move the tool-carrying rams in such a way that the tools reciprocate along apex lines of the convex surface of the pitch cone.

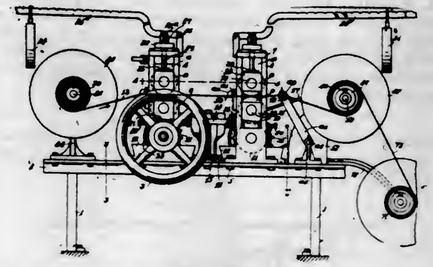
1,351,581. SAND-BLAST MACHINE. CHARLES F. MOTZ, Monaca, Pa. Filed Nov. 21, 1919. Serial No. 339,674. 7 Claims. (Cl. 51—4.)

4. Sand blasting apparatus comprising a compartment having an opening for the insertion of the ware to be sand-blasted, a rotary ware-support in said compartment, means for rotating said ware support, sand-blasting means, a vertically movable pattern-carrier, a rope connected to said pattern-carrier, a sheave engaged by said



rope, a rock-shaft, sheaves on said rock-shaft, a door for said opening, a cable connected to said door passing over one of said sheaves, weights connected to said cables, an arm on said rock shaft, and a cam in the path of said arm.

1,351,582. RIBBON-INKING MACHINE. HENRY G. MUTSCHLER, Rochester, N. Y., assignor to A. & H. G. Mutschler, Inc., Rochester, N. Y., a Corporation. Filed Sept. 30, 1919. Serial No. 327,505. 18 Claims. (Cl. 91—50.)



1. A bichrome ribbon inking machine comprising two inking mechanisms arranged to ink opposite edges of a ribbon fed through the machine, said mechanisms operating on the ribbon at two spaced points, in the direction of the length of the ribbon.

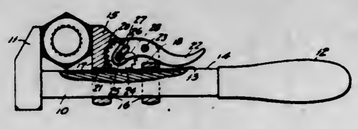
9. A bichrome ribbon inking mechanism comprising two pairs of rollers between which the ribbon is caused to travel, said rollers operating upon the ribbon at two spaced points and having their active sections out of alinement, and two scrapers operating on one roller of each pair at the end of such roller nearer the center of the ribbon.

12. A ribbon inking machine comprising a feeding roller, a pair of inking rollers having bearing blocks adjustable toward and from the feeding rollers, the upper roller being free to move toward the lower roller and wedge members arranged to effect the movement of the lower bearing blocks on the guides in order to effect a simultaneous movement of both inking rollers toward and from the feeding roller.

1,351,583. WRENCH. JAMES B. NEWLON and CHRISTIAN BACKINGER, Seattle, Wash. Filed Sept. 25, 1919. Serial No. 326,120. 2 Claims. (Cl. 81—133.)

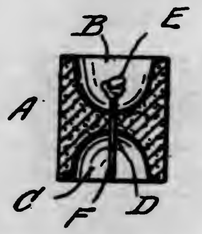
2. In a wrench, the combination of a stationary jaw, a shank therefor having teeth on one side of the same, a chambered block slidably fitted at both of its ends to

said shank and serving as a movable jaw, said block being provided interiorly with teeth, a spur wheel carried by said block and in continuous mesh with the



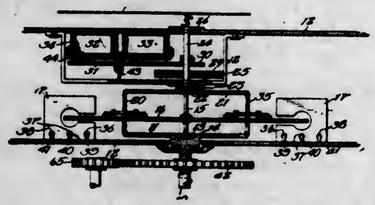
shank teeth, and a means for adjustably moving said wheel parallel with said shank to effect the engagement or disengagement selectively of the wheel teeth with or from the block teeth.

1,351,584. DENTAL MOLD-CUP. CHARLES A. PALMER, Seattle, Wash. Filed Nov. 26, 1919. Serial No. 340,893. 2 Claims. (Cl. 22—97.)



1. A dental mold-cup consisting of a cylindrical body made of porous material having water absorbent characteristics, said cup being provided in each end with a conoidal cavity which cavities are communicatively connected by a small hole wherein a sprue wire can be supported by the cup structure.

1,351,585. SPEEDOMETER. ARTHUR F. POOLE, Chicago, Ill. Filed May 5, 1917. Serial No. 166,613. 12 Claims. (Cl. 121—21.)

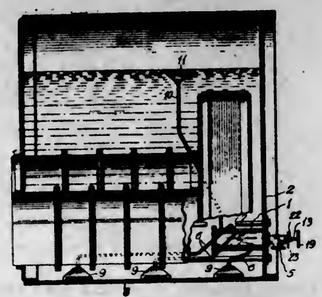


1. In an automobile speedometer, the combination of means for producing polyphase pneumatic impulses, means for translating said impulses into a rotary motion, and means to measure said rotary motion.

5. In an automobile speedometer, the combination of a framework, an element rotating proportional to the speed to be measured, pneumatic means adapted to rotate said element proportional to the speed to be measured, means to establish a magnetic field mounted on said framework, means for rotating a conducting element in said magnetic field proportional to the speed to be measured, and means for measuring the torque necessary to rotate said conducting element.

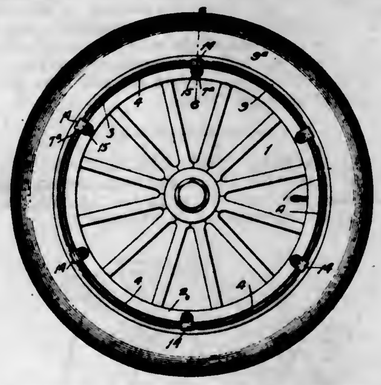
1,351,586. BLOW-OFF FOR BOILERS. GEORGE PURVIS, Port Huron, Mich. Filed June 7, 1918. Serial No. 238,799. 10 Claims. (Cl. 122—381.)

1. A blow-off for boilers comprising a selective valve having a plurality of distributed nozzles and an outlet having its axis alined with the valve axis, a controllable closure for the outlet and positioned to be located within the boiler when the blow-off is in position, and means for



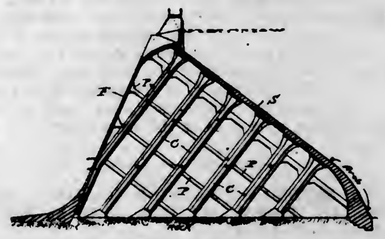
controlling the movements of the valve and closure, said means being positioned to be accessible externally of the boiler when the blow-off is installed.

1,351,587. WHEEL AND DEMOUNTABLE-RIM CONSTRUCTION. JOSEPH STUNGO, New York, N. Y. Filed Apr. 12, 1919. Serial No. 289,723. 5 Claims. (Cl. 152—21.)



1. The combination with a wheel, of a demountable tire-carrying rim composed of two circumferentially-split parts, releasable means bridging said split parts and connecting the same together, wedging means movable to engage and lock said releasable connecting means against releasing movement and simultaneously to frictionally engage the said rim and wheel to secure the same together and means on the wheel for moving the said wedging means into said locking and frictional engagements.

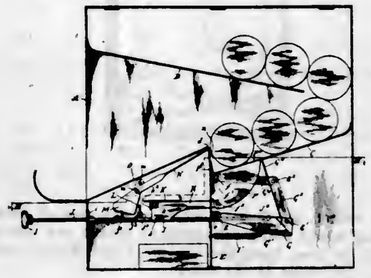
1,351,588. CONCRETE DAM. CLAUDE A. P. TURNER, Minneapolis, Minn. Filed Nov. 23, 1918. Serial No. 263,855. 5 Claims. (Cl. 61—32.)



1. In a dam, the combination of an inclined concrete slab forming the upstream face, and inclined separated,

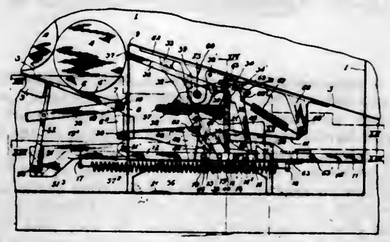
slab supporting column piers, said slab having reinforcements extending over the columns and throughout the slab, between the columns, and situated in the upper part of the slab at the columns, and in the lower part of the slab between columns, all such reinforcement being situated between the upper and lower faces of the slab, and the ratio of slab thickness to span between piers being such as to secure flat arch and flat dome action.

1,351,589. VENDING-MACHINE. JOHN VONS, Cleveland, Ohio. Filed July 2, 1917. Serial No. 178,238. 2 Claims. (Cl. 194—1.)



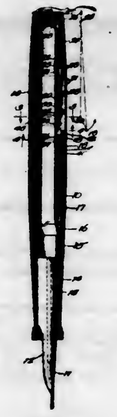
1. In a vending machine for vending articles in circular containers, the combination with the casing, of an inclined plane adapted to support said containers, a movable member forming a continuation of said inclined plane, a swinging latch pivoted to the casing above the coin slot and having a rod extending to the lower end of the inclined plane and adapted to come in contact with the lowermost container, whereby the weight of the container forces the swinging latch clear of the slot, and the weight of the latch causes it to close the coin slot when the casing is empty, substantially as and for the purpose specified.

1,351,590. VENDING-MACHINE. JOHN VONS, Cleveland, Ohio. Filed June 5, 1919. Serial No. 301,983. 10 Claims. (Cl. 194—80.)



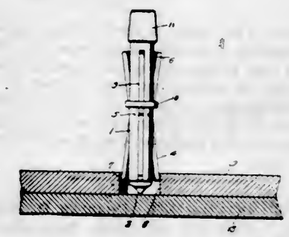
1. In a vending machine, a coin operated mechanism, comprising a coin chute, a pivoted coin retaining frame disposed adjacently to the lower parts of the sides of the coin chute, an operating plunger shiftable transversely across the lower end of the chute, and a frame carried by said plunger provided with a plurality of horizontally disposed levels adapted to coöperate with said retaining frame to release coins therefrom at different positions of the plunger.

1,351,591. FOUNTAIN-PEN. JOHN C. WAHL, Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 27, 1917. Serial No. 188,335. 8 Claims. (Cl. 120—46.)



2. In a self filling fountain pen, the combination of a pen casing and a slot therein, and a lever pivoted in said slot, said lever being composed of an outer shell having a pair of operating lugs inserted therein.

1,351,592. CENTERING-PUNCH. HARRY M. WALKER, Ellenton, S. C. Filed Nov. 29, 1919. Serial No. 341,555. 5 Claims. (Cl. 33—191.)

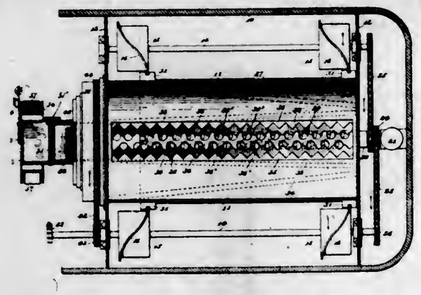


1. A centering punch comprising a body having at one end a point and at the other a head, and having longitudinally extending grooves spaced apart from each other, a blade of angular formation pivoted in each groove, each blade consisting of a relatively long portion and a relatively short portion extending at an obtuse angle with respect to each other, said short portions extending toward the engaging end of the punch, a spring normally pressing the long portion of each blade away from the body, and a collar movable on the body and the blades for operating the blades.

1,351,593. COAL-HANDLING MACHINE. EDWIN N. WEAVER, Jersey City, N. J. Filed May 24, 1919. Serial No. 299,596. 3 Claims. (Cl. 83—52.)

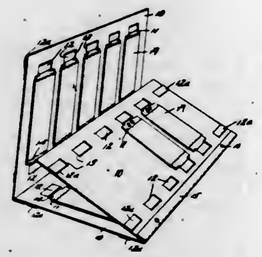
2. In a coal machine the combination of a bottom, a plurality of pairs of crushing jaws beneath said bottom, the jaws of each pair being movable toward and from each other, a crusher actuator beneath the jaws, and means to operate the actuator, connections between the

actuator and the jaws to cause reciprocation of the jaws of one pair in directions opposite to that in which the



other jaws reciprocate, the actuator being moved in directions perpendicular to the directions of the movement of the jaws.

1,351,594. SAMPLE-CARD. ABRAHAM WEINBACH, Brooklyn, N. Y. Filed Apr. 21, 1920. Serial No. 375,609. 1 Claim. (Cl. 211—34.)



A sample card including a sheet having pairs of slits in two approximately parallel series, separate strips laced through said slits alternately to the opposite sides of the sheet, the ends of said strips being pasted to the sheet while the intermediate areas at the opposite sides of the sheet are free from the latter, and sample-carrying tabs having tongues at the opposite ends thereof receivable beneath said strips.

1,351,595. SPINNING-RING. CHARLES D. WHITE, Norwich, Conn. Filed Oct. 21, 1919. Serial No. 332,225. 5 Claims. (Cl. 118—59.)

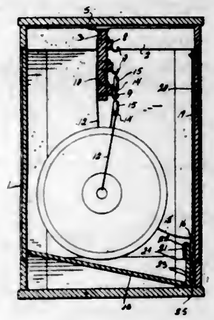


1. A spinning ring having a base lying in a substantially horizontal plane, and a raceway disposed angularly thereto, and flared from its lower edge outwardly toward its upper edge, said edges projecting above and below the plane of the base.

1,351,596. RECORD-CABINET. HAROLD A. WIBERG, New York, N. Y. Filed Oct. 8, 1919. Serial No. 329,307. 10 Claims. (Cl. 211—16.)

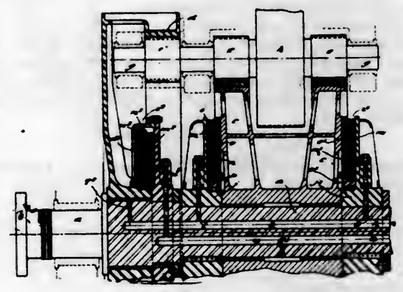
8. The combination with a record receiving chamber having an inclined bottom, of a support in the upper part of the chamber and a plurality of individual means for suspending a plurality of records spaced above said inclined bottom, each of said means being detachable to release its respective record to permit it to roll upon the bottom to the front of the cabinet.

9. The combination with a record receiving chamber provided with an inclined member, of a plurality of means for suspending a plurality of records in parallel planes at right angles to said inclined member with their marginal



edges spaced above said member, any one of said suspending means being releasable to permit any one of the records to drop upon the roll down the inclined member toward the front of the chamber.

1,351,597. POWER-TRANSMISSION TOOTHED GEARING. BERNARD R. WINGFIELD, West Drayton, England. Filed Aug. 6, 1918. Serial No. 248,639. 2 Claims. (Cl. 74—59.)

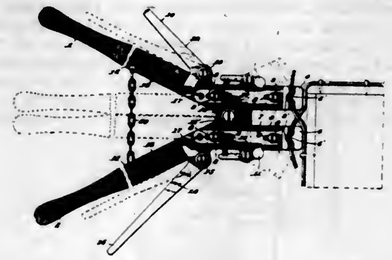


1. A reducing gear for driving a shaft in either direction of rotation from a shaft rotating continuously in one direction, comprising a wheel having external teeth and a wheel having internal teeth both mounted on the shaft to be driven, pinions on the driving shaft gearing with the said toothed wheels, the gears on one of the shafts being fast on that shaft while the co-acting gears on the other shaft are mounted freely thereon, hydraulically operated clutches adapted to couple the free gear wheels alternately to their shaft, and valve gear controlling the operation of the clutches and the supply of a lubricating fluid film to the gear wheels, substantially as described.

1,351,598. PORTABLE HAND-TOOL FOR STRETCHING, TIGHTENING, AND TWISTING THE FREE ENDS OF WIRE LENGTHS. CLARENCE E. WISE, Washington, D. C. Filed Nov. 12, 1918. Serial No. 262,112. 11 Claims. (Cl. 140—121.)

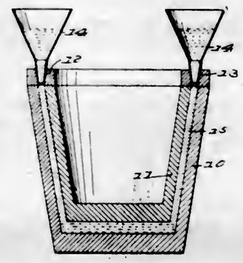
1. A tool of the character described, comprising pivoted members, each member having a rigid jaw at one end

thereof, and a longitudinally slidable member secured to each pivoted member having a clamping jaw at one end,



each slidable member being adapted to move forwardly and rearwardly.

1,351,599. ART OR METHOD OF CASTING ARTICLES OF CLAY. FRANKLYN J. WOLFF, Trenton, N. J. Filed July 25, 1918. Serial No. 246,733. 9 Claims. (Cl. 25—156.)



1. The method of molding clay articles which contemplates the exposure of opposite surfaces of the molded mass to the simultaneous effect of media having moisture absorbent characteristics of substantially equal capacity throughout the area of said surfaces.

1,351,600. GAGE. ORLO L. WOOD, Lansing, Mich. Filed June 19, 1920. Serial No. 390,228. 2 Claims. (Cl. 101—414.)



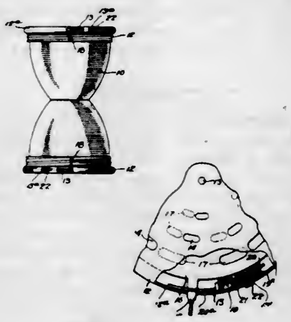
2. The combination with an automatic feeding mechanism for printing presses having a rotary finger holder, of a finger including a flat body secured in the holder, said finger having its outer end bent upon itself to provide transverse projections and depressions to form the said body with a jaw, the outer end of the jaw being reduced and rounded to the sides thereof and beveled from its edge to the opposite faces thereof, a second jaw having its inner end fixed to the body and overlying the first mentioned jaw, said second mentioned jaw comprising a strip which is corrugated transversely to provide intersecting projections and depressions the depressions of the last mentioned jaw designed to receive the projections of the first mentioned jaw therein, the last mentioned jaw having its end flared upwardly to provide a rod which is reduced and rounded from its end to its sides and which has its opposite faces beveled inwardly from its edges.

1,351,601. OIL-ABSORBING DEVICE. ALIDA E. ALLEN, Brooklyn, N. Y. Filed Oct. 31, 1919. Serial No. 334,714. 1 Claim. (Cl. 112—256.)



An oil absorbing device comprising an elastic core of substantially circular form provided with a central opening adapted to receive the article to which the absorbing device is attached, and a wrapping inclosing said core and wound about the same through its central opening, said wrapping providing an absorbent covering for the core.

1,351,602. SALT AND PEPPER SHAKER. RAGNAR ANDERSON, Sheridan, Wyo. Filed May 11, 1920. Serial No. 380,630. 2 Claims. (Cl. 65—45.)

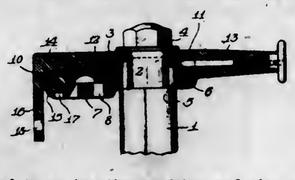


1. A condiment holder comprising a shell divided transversely into two compartments which are similar, a cap detachably engaged upon each end of the shell and provided in one side with a slot, the cap being further provided with a plurality of series of arcuate slots, a disk disposed against the inner side of each cap and pivotally connected therewith for rotatable movement, the disk being provided with a plurality of series of arcuate slots adapted to be brought into registration with said first named slots, a lug extending from the disk and passing through said first named slot, an apertured guide carried by the cap, a rod connected with the lug and slidable through said guide, a coil spring surrounding the rod between the lug and guide, and said guide being adjustable to limit the movement of said lug and consequently said disk, varying the degree of registration of the arcuate slots.

1,351,603. HINGE AND LOCK FOR STEERING-WHEELS. WILLIAM H. APPLEBY, Windsor, Ontario, Canada. Filed Aug. 1, 1919. Serial No. 314,659. 8 Claims. (Cl. 74—33.)

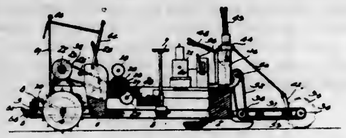
5. The combination of a steering post, a disengageable and removable steering wheel adapted for operation on said post, and means including a pin fixed relative to the

post and a barrel carried by the wheel establishing a connection between said post and wheel so that said wheel



may be tilted to an inactive position and also completely removed from the post.

1,351,604. ICE-HARVESTING MACHINE. DANIEL APPLEGATE, Port Clinton, Ohio. Filed Nov. 18, 1918. Serial No. 262,999. 2 Claims. (Cl. 262—20.)



1. In an ice harvesting machine of the class described, a frame adapted to move over the ice to be cut, ice saws swingingly mounted on said frame, a series of levers corresponding to the saws for raising or lowering each of the same independently of one another, a shaft common to said levers and mounted on the frame, and means for actuating said shaft to thereby shift the saws through the said levers regardless of the position of any one of the same.

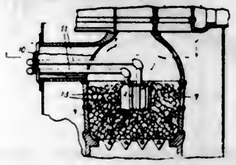
1,351,605. TRAFFIC-SIGNAL FOR VEHICLES. ROBERT L. ATWELL, Beloit, Wis. Filed May 24, 1919. Serial No. 299,419. 5 Claims. (Cl. 116—48.)



1. In a vehicle carried traffic signal, a signal supporting member, a direction indicating and pointing member having an articulated connection with said supporting member adapting it to be swung in a vertical plane in line with the direction of movement of the vehicle and also in a vertical plane at substantially a right angle to the direction of movement of the vehicle, and means for swinging said direction indicating member in either of said vertical planes, the last named means comprising a rockable element by which said indicating member is carried, including a push rod geared to said rockable element, and means including a cam device for rocking said element on an axis substantially at a right angle to its major axis, and a manually operable element controlling both of the last named means.

1,351,606. WATER-HEATER FOR FURNACES AND THE LIKE. ALBERT W. BACHMANN, Laporte, Ind. Filed Aug. 6, 1917. Serial No. 184,673. 1 Claim. (Cl. 122—20.)

In a structure of the class described, a water heater adapted to be arranged in either a vertical or horizontal position within a fire pot, comprising a hollow body formed of a single piece, said body having approximately flat end walls, one of which is formed with a pair of spaced openings for the connection thereto of either pipes or plugs, and side walls formed of a plurality of longitudinal hollow ribs disposed in a circular series to provide narrow flue spaces between the ribs, and another longitudinal hollow rib of greater width and diameter than the other ribs and offset therefrom at one side and having its outer wall provided with a pair of openings for the connection



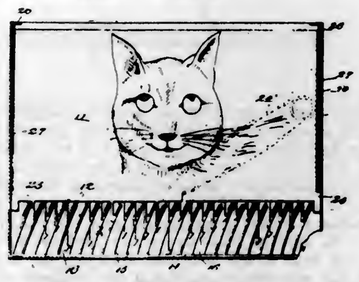
thereto of either pipes or plugs, said openings being located near the top and bottom of the body, the inner one of the two openings in the end wall being located at one end of the body where the plurality of hollow ribs are provided and substantially in the longitudinal center of said ribs, the other of said openings being provided at the end of the rib of greater width and diameter and adjacent to the top opening therein, whereby the water circulating pipes may be connected to the body in a plurality of different ways and air pockets within the heater body are eliminated.

1,351,607. ROAD OR PAVEMENT. JAMES V. BARRETT, Bordentown, and THOMAS J. BARRETT, Fieldsboro, N. J. Filed May 1, 1919. Serial No. 293,965. 14 Claims. (Cl. 238—5.)



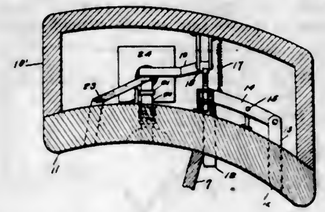
1. A concrete roadway or pavement having a recess extending lengthwise of the wear surface of the same and of substantially uniform depth, a filling of asphaltic, bituminous, or tarry paving material in said recess, and metallic reinforcing strips interlocked with said paving material; the projecting ends of said metallic reinforcing strips being embedded in the body of the road.

1,351,608. EDUCATIONAL TOY. WALTER M. BARRY, New York, N. Y. Filed Mar. 20, 1920. Serial No. 367,355. 14 Claims. (Cl. 35—9.)



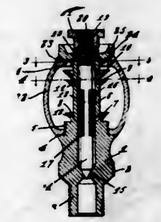
1. A device as characterized, including a casing, a plurality of projectable picture embodying panels, normally concealed within said casing, an operable key-board including spring pressed lettered keys embodying the alphabet permanently located on said casing, and means operable through the use of said key-board to expose a particular panel by permitting the same to move step by step.

1,351,609. COIN-CONTROLLED DOOR. WILLIAM JAMES BISHOP, Collingwood, Ontario, Canada, assignor of one-half to John J. Quilty, Collingwood, Canada. Filed July 9, 1919. Serial No. 309,652. 2 Claims. (Cl. 194—74.)



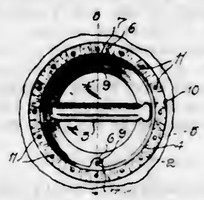
1. A device of the character set forth including a rotating door, a lock casing, a substantially U-shaped member pivoted within said casing and having one arm engaging the door to lock the same against rotation and its other arm held in a retracted position, tension means connected to the substantially U-shaped member, a locking means engaging the substantially U-shaped member, a push button in said casing, and a coin chute in said casing conveying a coin to a point for permitting the push button to actuate the locking means.

1,351,610. VACUUM OIL-CUP. HARRY F. BLOOM, Toledo, Ohio. Filed Apr. 21, 1920. Serial No. 375,563. 3 Claims. (Cl. 184—70.)



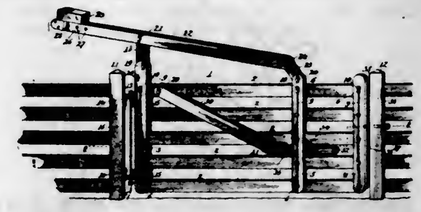
2. In a vacuum oil cup a neck having a valve seat therein and an outlet nipple, a tubular stem projecting from the neck and having an annular shoulder, there being ports extending from the shoulder and into the stem, a valve adjustably mounted in the stem and adapted to engage the seat, one end of the valve projecting beyond the stem and body, a lock nut engaging said valve and adjustable against the stem, and a cover adjustably engaging the stem and movable toward and away from the body to close and open said body, said lock nut constituting means for holding the cover against removal from the cup.

1,351,611. SANITARY MILK-CAN COVER. MARY A. BLOSSER, Bever township, Mahoning county, Ohio. Filed Nov. 24, 1919. Serial No. 340,142. 6 Claims. (Cl. 220—24.)



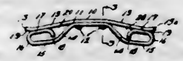
1. A protecting device for milk can covers comprising a ring, means for fastening the same to the cover, and a sheet of flexible material fastened to said ring and adapted to be held against the circumference of the can neck.

1,351,612. GATE. MARK HARRIS BODLEY, Tyrone, Pa. Filed Oct. 2, 1919. Serial No. 327,843. 4 Claims. (Cl. 39—13.)



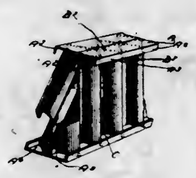
1. A gate formed of a series of longitudinal bars in superposed order, end posts connecting the bars and to which the latter are pivoted, an intermediate post also connecting the bars and to which the latter are pivoted, other bars extended in the direction of the length of the gate with one bar slidable lengthwise of the gate between two adjacent longitudinal bars and traversing the intermediate post and there provided with perforations for the reception of a stop pin to engage the intermediate post and thereby hold the gate in either a level or different tilted positions.

1,351,613. COLLAR-BAR. ALBERT BROWN, New York, N. Y., assignor of one-third to Max Jacob Grauer and one-third to Joseph Lipschutz, New York, N. Y. Filed Apr. 13, 1920. Serial No. 373,678. 3 Claims. (Cl. 24—81.)



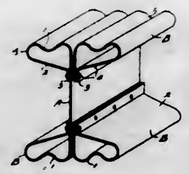
1. A collar bar having clamps at the ends thereof, each clamp comprising front and rear elements, one of said elements of each clamp having the end portion thereof return bent presenting an elongated member extending laterally inward along and in close contact with the opposed inner surface of the coacting clamp element, there being clearance space laterally inward from said returned member and said contacting surfaces.

1,351,614. GIRDER AND THE LIKE FOR AIRCRAFT. EDWARD EUGENE BROWN, Streatham, London, England. Filed Jan. 26, 1918. Serial No. 213,980. 11 Claims. (Cl. 189—37.)



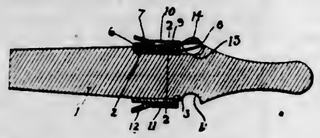
1. In a girder, a pair of members having inner flanges disposed side by side and outer flanges, a second pair of members having inner flanges disposed side by side and outer flanges, the second mentioned members being spaced from the first mentioned members, two panels, each provided with ribs, and having their sides disposed at the inner flanges, means to secure the sides of the panels and the inner flanges together, and means to secure the ribs on the panels to the outer portions of the outer flanges.

1,351,615. METAL CONSTRUCTION. EDWARD EUGENE BROWN and DERMOT JOSEPH MOONEY, London, England. Filed Jan. 28, 1920. Serial No. 354,722. 2 Claims. (Cl. 189—37.)



1. A metal spar, comprising a web, and hollow flanges at both sides of the web at both longitudinal edges thereof, said hollow flanges having straight inclined inner portions and curved outer edges, and the outer portions of said flanges having a compound curvature transversely.

1,351,616. PEG FOR VIOLINS AND THE LIKE. WILLIAM J. BURKE, San Francisco, Calif. Filed Mar. 16, 1920. Serial No. 366,247. 3 Claims. (Cl. 84—304.)

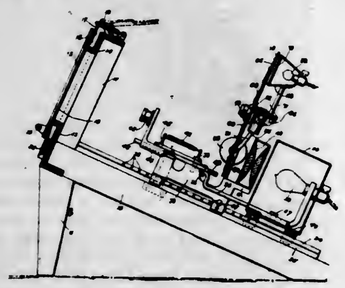


3. The combination with a sleeve having an interior series of ratchet teeth, of a peg insertible into the sleeve and having a longitudinal channel, a band extending around the peg and having inturned ends seated in the channel to hold the band against displacement, a pin connecting said ends and within the channel, a folded spring strip pivotally mounted on the pin, one end portion of said strip constituting a yielding support for the balance of the strip, an outturned portion upon said strip for engaging the teeth in the sleeve to hold the peg against rotation in one direction, and a finger piece upon the fold portion of the strip and yieldingly supported outside of the channel.

1,351,617. PRODUCT IMITATING CHINA. CARLOS BUTTY and FLORENCIO ALVO, Buenos Aires, Argentina. Filed June 18, 1919. Serial No. 304,979. 2 Claims. (Cl. 106—24.)

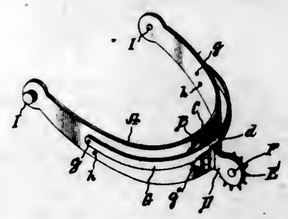
1. A composition for forming articles in imitation of china, consisting of sulfur 40%, clay and cement 60%, and a coloring matter.

1,351,618. OPTICAL PRINTER. HAGAR BOLTON BYRON, New York, N. Y. Filed Mar. 8, 1919. Serial No. 281,417. 3 Claims. (Cl. 88—24.)



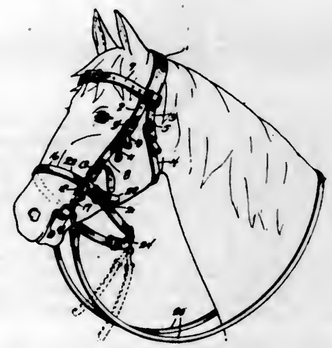
1. In a machine of the character set forth, the combination of a frame, a guide bar extending across the lower portion of the frame, means to adjust and hold the bar at any desired elevation with respect to the focal axis of the frame, a plurality of fingers carried by and adjustable with the bar for accurately receiving and holding sheets of print paper, and a platen movable toward and from the frame into direct contact with the paper and having grooves to receive said fingers without obstruction.

1,351,619. SPUR. LOPE VICENTE CALDERÓN, La Ceiba, Honduras. Filed Apr. 26, 1920. Serial No. 376,817. 6 Claims. (Cl. 54—83.)



1. In a spur the combination with a U-shaped heel plate adapted to engage the heel of the wearer, of a hinge plate secured to the rear thereof, a yoke hinged to said hinge plate, a rowel journaled in said yoke, and a guard plate pivoted to the exterior of said heel plate and adapted to lock said hinged yoke in the open or closed position.

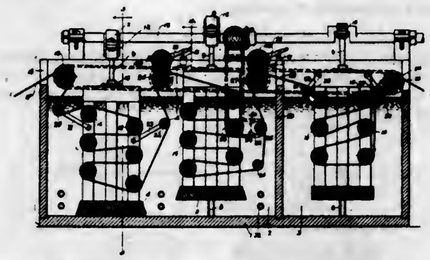
1,351,620. BRIDLE AND HALTER. SAMUEL CORNELIUS CANTER, Wilkesboro, N. C. Filed July 28, 1919. Serial No. 313,793. 1 Claim. (Cl. 54—6.)



A bridle comprising opposite cheek straps of different lengths, the shorter of the cheek straps having a snap hook suspended therefrom, a bit comprising a mouth piece and rings having a combined length equal to the length of the shorter of the said cheek straps, and a snap hook secured to the upper portion of the longer of the said cheek straps whereby one end of the said bit may be attached to the said snap hook for coöperating with the shorter of the said cheek bands to maintain the lower end of the cheek bands in substantially the same plane, and a nose band supported by the lower ends of the said cheek straps.

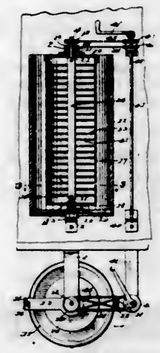
1,351,621. TEXTILE-FABRIC-TREATING MACHINE. LOUIS CLARENBACH, Passaic, N. J. Filed Aug. 5, 1919. Serial No. 315,552. 11 Claims. (Cl. 8—19.)

1. A machine for treating fabric in open width comprising a vat, a plurality of frames arranged in said vat, each of said frames carrying a plurality of rollers, means for guiding textile fabric in open width to the rollers, on said frames, and means for reciprocating said frames in



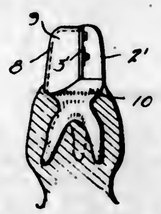
such a direction as to cause the fabric extending from one roller to the other to engage substantially flatwise the liquid in said vat.

1,351,622. ICE-CREAM FREEZER. JOHN CLARK, Flint, Mich. Filed Oct. 17, 1919. Serial No. 331,304. 5 Claims. (Cl. 259—85.)



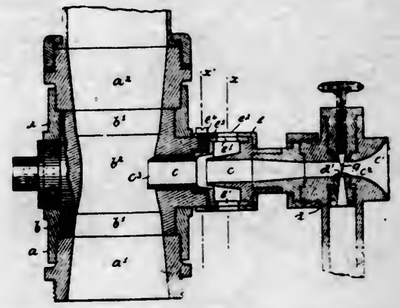
3. In a device of the character described, agitating means including a shaft composed of two sections one of which is rectangular in cross section and formed with a vertical groove in one face and with a plurality of horizontal grooves intersecting the vertical groove, a lug formed medially of the ends of the inner wall of each horizontal groove, the other section being plate-like in form, a vertical rib carried by one face of the plate-like section, a plurality of bars each having opposed recesses formed in its side edges medially of the ends, the bars being positioned in the horizontal grooves and the recesses being engaged by the lug and the rib when the sections are arranged together, and means for detachably fastening the sections together.

1,351,623. DETACHABLE TOOTH. CLAUDE ASTOLFO CONOVER, Newburgh, N. Y. Filed Jan. 8, 1920. Serial No. 350,079. 6 Claims. (Cl. 32—12.)



1. A removable tooth comprising a tooth structure, a supporting plate, and means for connecting the tooth structure with the plate so that the tooth structure will not move independently of the plate, said means including a snap fastener.

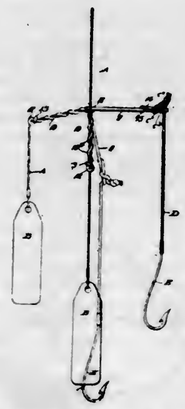
1,351,624. CARBURETER. ARTHUR COX, Olton, near Birmingham, England. Filed Mar. 1, 1919. Serial No. 280,127. 4 Claims. (Cl. 261—45.)



1. A carbureter for internal combustion engines, comprising a primary air branch or induction tube having an air intake; a fuel supply jet located in said branch; a main air passage into which the primary air branch leads; and an adjustable valve remote from said air intake adapted to admit air into said branch at the engine side of the jet for controlling the fuel supply.

4. A carbureter for internal combustion engines, comprising a primary air branch or induction tube; a fuel supply jet located therein; a main air passage into which the primary air branch leads; an adjustable air-admission valve located in said branch intermediate the fuel jet and the main air passage and embodying fixed and movable members having coöperating series of ports; and a throttle valve located in said passage and connected for simultaneous operation with the movable member of the air-admission valve, said movable valve member being initially adjustable relatively to the fixed member and independently of its operating movement with the throttle valve.

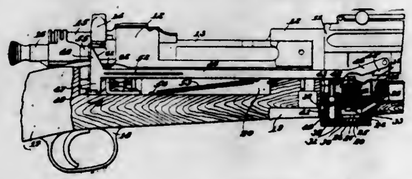
1,351,625. FISHLINE ATTACHMENT. MARTIN J. CROSBIE, New York, N. Y. Filed Feb. 11, 1920. Serial No. 357,971. 3 Claims. (Cl. 43—28.)



1. A line attachment comprising an elongated line-engaging member, and a lateral arm thereon at an end thereof, said attachment presenting a laterally disposed line-receiving open loop at the juncture of said line-engaging member and said arm and in a plane approximately at right angles to the line-engaging member, said

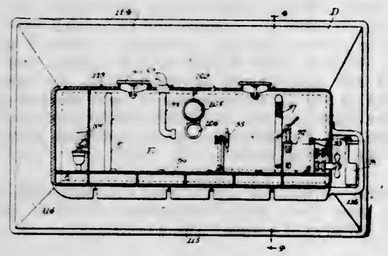
arm departing laterally from said loop so that one side of the loop is formed by said arm, whereby the attachment when a weight is imposed on the lateral arm will swing through an arc having its center directly at said loop and therefore directly at the inner end of the lateral arm.

1,351,626. GUN LUBRICATION. HENRY HAVELOCK CUMMINGS, Newton, Mass., assignor, by direct and mesne assignments, of one-half to John Taliaferro Thompson, Newport, Ky., and one-half to Thomas Fortune Ryan, New York, N. Y. Filed June 9, 1920. Serial No. 387,577. 15 Claims. (Cl. 42—1.)



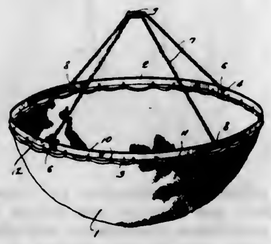
1. In combination with a gun, a lubricant reservoir, means for pumping lubricant from the reservoir and outlet means adapted to discharge the lubricant upon cartridges in the gun magazine.

1,351,627. LIFEBOAT. GEORGE DORFFEL, West Seattle, Wash. Original application filed May 14, 1919, Serial No. 297,015. Divided and this application filed Sept. 10, 1919. Serial No. 322,773. 5 Claims. (Cl. 114—16.7.)



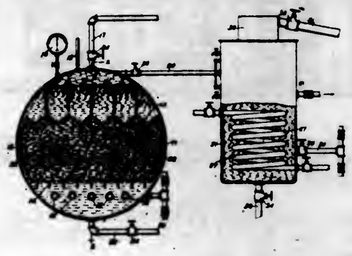
1. In combination, a submarine vessel, a life boat carrier mounted thereon, a life boat seated in said carrier, and flexible means exteriorly of the submarine and of the life boat for securing said life boat in position, said means being adjustable from within said submarine vessel and being releasable from within said life boat.

1,351,628. FISHING-NET. JAMES K. DUKAS, Edwardsville, Pa. Filed Apr. 4, 1919. Serial No. 287,442. 1 Claim. (Cl. 43—12.)



A device of the class described comprising a collapsible frame composed of jointed sections, a net carried thereby, supporting chains, one of which is permanently engaged with said frame, and the others having hooks detachably engaged therewith at their joints to hold the frame in expanded position.

1,351,629. APPARATUS FOR EXTRACTING RESIN AND ALLIED PRODUCTS. WILLIAM EDENBORN, New Orleans, La. Filed June 3, 1918. Serial No. 238,010. 10 Claims. (Cl. 203—6.)



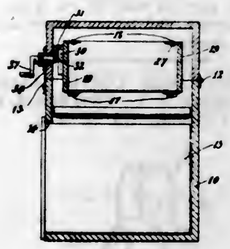
8. An apparatus as characterized embodying a tank for extracting in the form of a solution, the resin contained in wood particles; means for maintaining the solution above said wood particles; and means interposed between the body of said solution and said particles for collecting the resin and preventing the redeposit of the same on said particles.

1,351,630. GYROSCOPIC TOP. KARL EDISON, Spring Valley, N. Y., assignor to Harry E. Block, Spring Valley, N. Y. Filed Dec. 20, 1919. Serial No. 346,252. 6 Claims. (Cl. 46—32.)



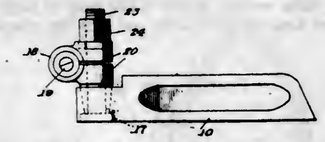
1. A top, including a plate, a cross-bar attached to and spaced from the lower face of said plate, a rotatably mounted fly wheel positioned intermediate said plate and cross bar, means for rotating such fly wheel, and a supporting point forming a part of such cross bar.

1,351,631. ASH-SIFTING DEVICE. ABRAHAM ELKINS, Bridgeport, Conn. Filed June 27, 1919. Serial No. 307,066. 4 Claims. (Cl. 83—60.)



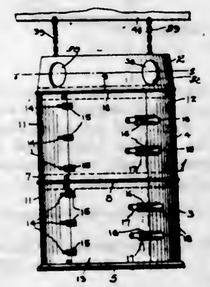
1. An ash sifting device comprising a receptacle, a cover hinged thereto, a plurality of guide rods extending longitudinally thereof, a sifting element mounted for reciprocal movement on said guide rods, means for reciprocating said sifting element, and means carried by the hinged cover for guiding the sifting element in its reciprocal movement.

1,351,632. TOOL-HOLDER. OSWALD ENGELS, Flint, Mich. Filed Jan. 24, 1920. Serial No. 353,648. 2 Claims. (Cl. 29—98.)



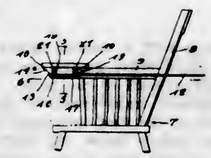
1. A tool holder comprising an arm having an opening extending transversely through one end thereof, a bolt removably positioned in said opening, means for locking the bolt against rotary movement, a split clamping collar for receiving a tool, registering openings formed in the adjacent end of the collar to receive the bolt and a nut secured upon the threaded end of the bolt for clamping the tool and collar against movement.

1,351,633. FURNACE-CASING. CECIL L. EPPS, Van Wert, Ohio. Filed Feb. 8, 1916. Serial No. 77,050. 4 Claims. (Cl. 126—114.)



1. A furnace casing including relatively spaced horizontally disposed rings, upper and lower body portions embracing said rings, each body portion consisting of relatively spaced removable sections, and doors intermediate the said sections, means detachably connecting certain side edges of said doors to the side edges of one of said sections, and means adapted to be operated to detachably connect the other side edges of said doors to the side edges of the other of said sections, and to draw the doors and the sections into and hold them in close embracing engagement with said rings.

1,351,634. BABY'S CHAIR-TABLE. THEODORE ERNST, Bayfield, Wis. Filed Sept. 8, 1919. Serial No. 322,570. 7 Claims. (Cl. 155—127.)



1. The combination with a chair having a back, of a track supported by said chair and extending from the front portion past the said back, a table, means movably securing said table to said track so it can be moved thereabout from a position in front of said back to a position in rear of said back while remaining secured to the track, and supporting means on said chair to support the opposite end portion of said table in substantially horizontal position in front of and behind the said back.

1,351,635. AUTOMOBILE DIRECTION-SIGNAL. GEORGE ANDREW FORSBERG, New Britain, Conn. Filed Nov. 21, 1919. Serial No. 339,657. 14 Claims. (Cl. 40—132.)



1. A signal device comprising intelligible light-transmitting indicia arranged to impart intelligible signals, light-emitting means individual to each signal for differentiating one signal from another, and groups of laminæ individual to the signal indicia and located between the light-transmitting signal and the light-emitting means with the edges of the laminæ presented toward the indicia and toward the light-emitting means and of non-reflecting character, whereby the signal means may be used successfully either by daylight or at night.

2. A signal device comprising a container with walls dividing the interior of the container into compartments separated optically one from the other, each compartment containing light-emitting means, a front wall with light-transmitting indicia therein grouped to display an intelligible signal, and groups of laminæ in and individual to compartments interior to the outer wall and related to the light-emitting means to prevent the reflection of light entering the indicia from the outside through said indicia to the outside.

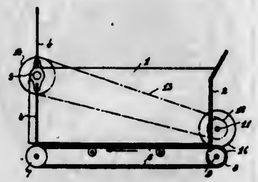
3. A signal device comprising a container with walls dividing the interior of the container into compartments separated optically one from the other, each compartment containing light-emitting means, a front wall with light-transmitting indicia therein grouped to display an intelligible signal, and groups of laminæ in and individual to the compartments interior to the outer wall and related to the light-emitting means to prevent the reflection of light entering the indicia from the outside through said indicia to the outside, the laminæ being in superposed spaced horizontal position when installed, and having the surfaces substantially non-reflective.

4. A signal device comprising a container with optically distinct compartments therein, a front or cover with light-transmitting indicia representing intelligible signals and each individual to a compartment, and a group of non-reflective spaces and substantially parallel laminæ adjacent to the inner face of the cover and projecting toward the source of light in, and each group being individual to, the compartment, whereby the signal may be caused by the energization of the light source either in daylight or at night.

5. A signal device comprising a container with interior division walls separating the container in optically distinct compartments therein, light-emitting means in each compartment individual thereto, and cover means for the compartments in the form of a plate with light-transmitting indicia therein providing intelligible signals, said plate having on its rear face groups of closely adjacent

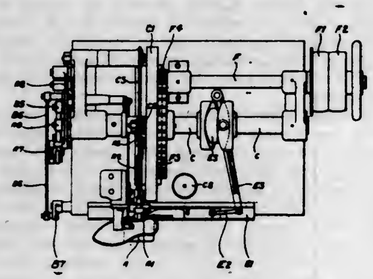
spaced laminæ projecting perpendicularly and individual to the indicia between the cover means and the light-emitting means in each compartment.

1,351,636. DEVICE FOR PERIODIC EMPTYING OF RECEPTACLES. OLOF FRANKMAN, Malmö, Sweden. Filed Oct. 25, 1919. Serial No. 333,337. 1 Claim. (Cl. 214—83.)



A device of the character described comprising, a receptacle having opposite closed sides, a rear closed end, a forward open end and an open bottom; an endless conveyer arranged beneath the receptacle to cover its open bottom and having its upper run traveling toward the open forward end of the receptacle; a transverse shaft arranged above and spaced from the endless conveyer and disposed near and within the forward ends of said sides, a pair of radial gates carried by the shaft and arranged in diametrical relation, each gate being adapted to assume a vertical position within the open end of the receptacle to close the same while the other gate is disposed wholly exteriorly of the receptacle, and gearing connecting said shaft and endless conveyer to cause them to move in unison whereby the endless conveyer is adapted to completely discharge the material from the receptacle by the time the gate reaches the vertical closed position.

1,351,637. SEWING-MACHINE FOR PLAITED-SOLED SHOES. NORMAN FRASER, JOHN FRASER, and GORDON SCOTT FRASER, Arbroath, Scotland. Filed Sept. 24, 1918. Serial No. 255,511. 2 Claims. (Cl. 112—36.)



1. In a machine for sewing uppers to jute or like soles to form shoes, in combination a vertically reciprocated sewing needle, an inclined work table to receive the sole and upper so positioned that the needle enters the edge of the sole diagonally and passes through the sole inward and toward the center thereof, a vertically reciprocated spiked bar adapted to pierce the sole in a direction opposite to that in which the needle enters, and a spiked roller at substantially the same inclination as the work table and adapted to feed the sole forward between successive stitches, as set forth.

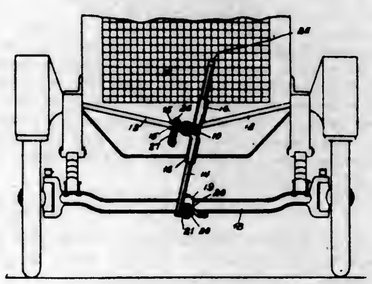
1,351,638. BROOM-HOLDER. GEORGE GENTSLINGER, Wapakoneta, Ohio. Filed Jan. 24, 1920. Serial No. 353,711. 1 Claim. (Cl. 15—19.)

A broom holder comprising metallic straps connected together at one end to form a point, portions of said straps being diverged and projected downwardly to overlie the upper end and opposed edges of a broom, a rigid confining band shaped to fit about the broom and secured to said metallic straps above their lower free ends, a semi confining band secured to the lower ends of said metallic straps and adapted to embrace one-half the broom, and a



supplemental frame including a semi-confining strap to encircle the broom head opposite said semi-confining band and extensions from said semi-confining strap pivotally connected to the metallic straps, and means connecting these semi-confining band and semi-confining strap to vary the clamping coöperation between said parts.

1,351,639. CRANK. ZACHRIAH E. GILLEY, Lamasco, Tex. Filed Sept. 27, 1919. Serial No. 326,937. 2 Claims. (Cl. 74—33.)

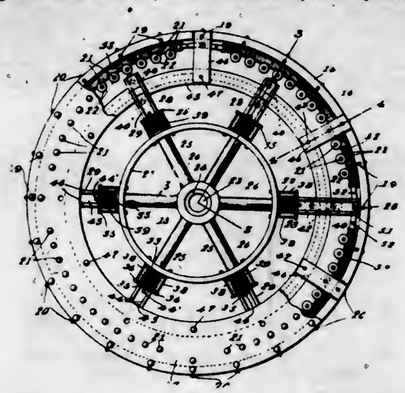


1. The combination with a vehicle having an internal combustion motor, of a shaft having an operative connection with the crank shaft of the motor, a crank arm carried by and disposed transversely of and extending upon opposite sides of the first mentioned shaft and a trip secured to the vehicle below the shaft and in the path of movement of both ends of the crank arm.

1,351,640. WHEEL CONSTRUCTION. RASEY J. GOODSON, Appleton City, Mo. Filed Aug. 18, 1919. Serial No. 318,277. 3 Claims. (Cl. 152—48.)

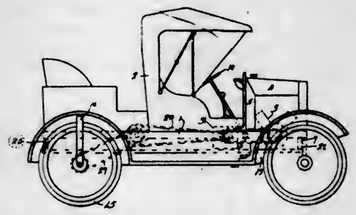
3. A wheel comprising an inner hub section and an outer rim section, a concentrically arranged annulus carried by the rim section and spaced from the rim, radially yieldable spokes carried by the hub section and having

their outer bifurcated ends disposed upon opposite side edges of the annulus, means carried by the spokes for



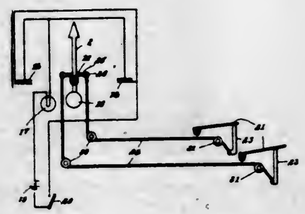
engagement with the inner and outer peripheries of the annulus and springs connecting the spokes and rim section.

1,351,641. MOTOR-VEHICLE. WILLIE GREER, Osceola, Ark. Filed Nov. 6, 1919. Serial No. 336,134. 4 Claims. (Cl. 280—124.)



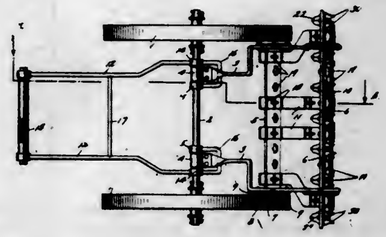
1. A motor driven vehicle including upright forks, wheels journaled within the forks, a cross bar connecting the forks and yieldably engaging the same, a main frame supported upon the cross bar, and springs interposed between the main frame and the cross bar.

1,351,642. AUTOMOBILE-SIGNAL. EDDIE FLOYD GRIFFIN, Uniontown, Pa. Filed June 2, 1917. Serial No. 172,481. 1 Claim. (Cl. 116—47.)



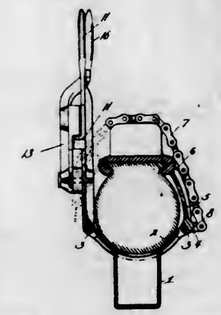
A device of the class described, comprising a housing, a transparent plate in the upper part thereof, a pivot pin supported by the lower front and rear walls of said housing, a signal arrow secured to said pin intermediate its ends, a counter weight on the lower end of said arrow for holding the head of the arrow opposite the transparent plate, a cross-arm on said arrow immediately above the pivot pin, cables connected with the ends of said arms and means in the lower part of the housing for illuminating the interior of the housing and the arrow.

1,351,643. CULTIVATOR. ROBERT LEE GUTHRIE, Santa Rosa, Calif. Filed Apr. 29, 1920. Serial No. 377,649. 9 Claims. (Cl. 97—42.)



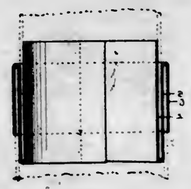
1. A cultivator, comprising a support, a pair of normally horizontal parallel bars located on the support, one bar in advance of the other, vertical standards having each a series of slots therein, turn buttons on the rear bar located in any of said slots and securing the standards to the bar, and braces connecting the lower portions of the standards with the forward bar.

1,351,644. WHEEL-LOCK. IGNAZ HADINGER, Pottsville, Pa. Filed Mar. 29, 1920. Serial No. 369,714. 12 Claims. (Cl. 70—90.)



12. In a wheel lock, a chock adapted to be applied to the tire thereof, a flexible member connected to said chock and means comprising relatively movable levers for tightening and locking said flexible member about the felly of the wheel.

1,351,645. PIPE-COUPLING. BENJAMIN RILLEY HAMBY, Crum Creek, Okla. Filed Oct. 13, 1919. Serial No. 330,269. 3 Claims. (Cl. 285—185.)



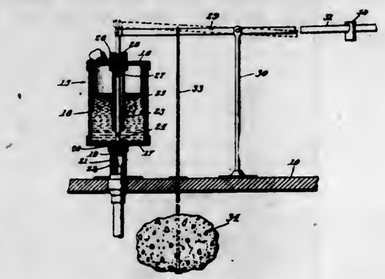
1. A pipe coupling comprising a tubular body longitudinally split with the adjacent edges overlapping for expansion and contraction of said body and inwardly and outwardly folded ends on the body to provide reversely extended flanges for forming pipe end receiving sockets.

1,351,646. BOTTLE-OPENER. JOHN ALDEN HIGGS, Wareham, Mass. Filed Dec. 4, 1919. Serial No. 342,331. 2 Claims. (Cl. 65—47.)



1. An article of the character specified, comprising a narrow base having a point at one end and a butt at the opposite end and wings at opposite sides of the base and projecting therefrom to form a finger grip, said wings being inwardly inclined and having their outer edge portions brought together, and notched in their outer edges to form an opener for crimped metal caps.

1,351,647. INCUBATOR ATTACHMENT. WILLIAM E. HILL, Alton, N. H. Filed Apr. 1, 1919. Serial No. 286,702. 3 Claims. (Cl. 236—44.)



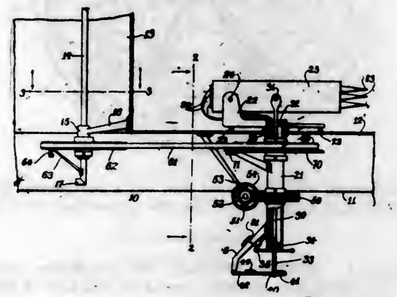
1. The combination with an incubator, of a water reservoir communicating with the interior of the incubator to supply moisture, a spring actuated plunger valve within the reservoir for controlling the supply of water to the incubator and means controlled by the degree of moisture within the incubator for operating the valve.

1,351,648. COMMUTATOR. LEWIS E. HODGES, Tarboro, N. C. Filed Sept. 22, 1919. Serial No. 325,393. 4 Claims. (Cl. 200—26.)



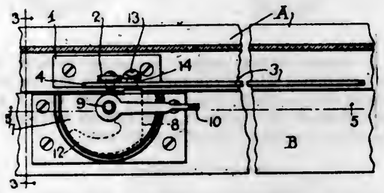
4. In a commutator, a rotatably mounted shaft, a casing surrounding the shaft, said casing including a rear wall and a removable front wall having openings therein for the passage of the shaft, a sleeve surrounding the shaft within the casing and having one end surrounding the opening in the rear wall and its opposite end extending through the opening in the front wall, a distributer arm rotatable with said sleeve for engagement with spaced contacts carried by the casing, means engageable with the sleeve and shaft and contacting with the outer wall to hold the parts assembled, spaced aprons carried by the sleeve for contact with the inner surfaces of the front and rear walls to properly position the distributer arm between said walls and to prevent the escape of lubricant, an auxiliary cover plate and means for removably holding the latter in position in a manner to permit of rotation of the casing.

1,351,649. COMBINED PERISCOPE AND GUN. LOUIS HOLECEK, Oakland, Calif. Filed Sept. 16, 1918. Serial No. 254,318. 10 Claims. (Cl. 89—41.)



1. In a submarine, the combination of a periscope, a gun mounted to swing on a vertical axis on a submarine above deck, and indicating means carried by the gun support and controlled by the periscope to permit the gun to be swung to point in the same direction as the periscope.

1,351,650. WINDOW-LOCK. ARTHUR J. HUFFER, Philadelphia, Pa. Filed June 12, 1919. Serial No. 303,844. 1 Claim. (Cl. 292—270.)

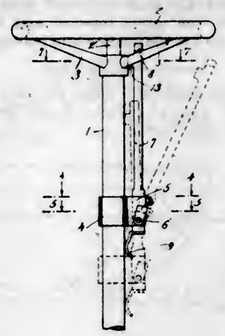


A device of the class described comprising a casing connected with the top of the lower sash, a vertical shaft journaled in said casing and having its upper end projecting therefrom, a hand lever connected with said projecting end, a locking member carried by the inner end of said shaft, said member having a hook at one end and a groove in its other end, the casing having an opening in one side through which said hook and grooved part are adapted to extend, a plate carried by the lower rail of the upper sash, an upright on said plate, a slotted lever pivoted to said upright and having a projecting reduced end extending beyond the pivotal point and adapted to be engaged by the hook on the locking member when the plate is in horizontal position and said slot having an enlarged lower end for receiving the grooved end of the locking member for guiding said end into the upper part of the slot to permit the sash to be opened to a limited extent.

1,351,651. AUTOMOBILE-LOCK. JAMES W. HUNTER, Mobile, and EDWIN WILLIAMSON, Selma, Ala. Filed Dec. 15, 1919. Serial No. 345,022. 5 Claims. (Cl. 70—129.)

1. A device of the character stated, comprising a split collar adapted to be positioned around a steering column,

an arm pivotally connected to the collar, cam blocks operatively connected to the arm and engaging a split collar and adapted to contract the collar when the arm is in

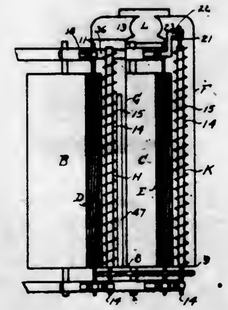


a vertical position, and said arm adapted, when moved to a vertical position, to be positioned between the spokes of the wheel.

1,351,652. METHOD OF MAKING PYROXYLIN PRODUCTS. JOHN G. JARVIS, Stamford, N. Y. Filed Mar. 13, 1919, Serial No. 282,402. Renewed June 23, 1920. Serial No. 391,161. 2 Claims. (Cl. 18—57.)

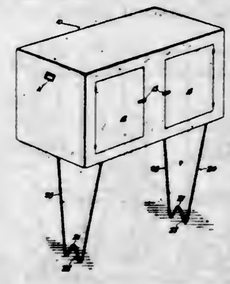
1. A method of making pyroxylin products consisting of a spreading mixture made of nitrocellulose and acetyl cellulose united by a mutual solvent when in a soft state upon a carrier, afterward spreading upon the soft surface a fluid mixture made of acetyl cellulose and naphthalene in suitable proportions, together with equal parts of acetone and acetic ether and to which a solution of acetone and collodion is added and when in a homogeneous state a solution such as chloral hydrate is added to reduce the inflammability of the film.

1,351,653. BUR-CONVEYER ATTACHMENT FOR WOOL-CARDS. CHARLES EDWARD JEWETT, North Andover, Mass. Filed Mar. 22, 1919. Serial No. 284,292. 10 Claims. (Cl. 19—3.)



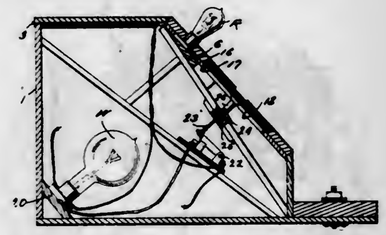
8. The combination in a card having revoluble carding rolls and a revoluble bur roll for beating burs from one of such rolls, of a trough having an open end with a V-shaped open bearing therein and extending across such card proximate said bur roll in position to receive the burs, and a revoluble screw conveyer which extends through such trough, one end resting on such open bearing adapted to convey burs through the trough and to deliver them from the open end thereof, bearings which carry the other end of the screw conveyer, driving means for said conveyer proximate said bearings, and a resistance member attached lengthwise to said trough proximate the screw conveyer.

1,351,654. CABINET. RICHARD JOBLING, Calumet, Mich. Filed Feb. 17, 1919. Serial No. 277,454. 1 Claim. (Cl. 45—71.)



A bread or cake cabinet, comprising a hollow box-like member, having doors at the front thereof, vertical and horizontal partitions therein dividing the same into pairs of upper and lower compartments, and said partitions having portions of the ends thereof spaced from each other and from the walls of the cabinet to provide communicating air passages for all the compartments, the base of the cabinet having openings communicating with the lower compartments, and pivoted doors controlling said openings.

1,351,655. ELECTRIC PRINTING-MACHINE. GEORGE W. JOHNSON, Latrobe, Pa. Filed Jan. 28, 1919. Serial No. 273,529. 1 Claim. (Cl. 95—73.)

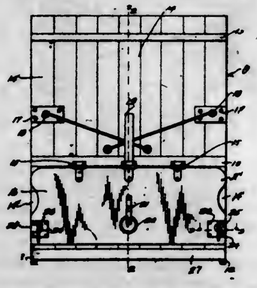


In a device of the character described, the combination of a casing including a circuit therein having a lamp and a knife switch, a rod connected to said knife switch and having a head on its outer end, a coiled spring surrounding said rod and engaging said head for forcing the same in one direction to hold the switch normally open, an abutment means on said casing for said spring, said head adapted to compress said coil spring against said abutment, said casing having a print receiving portion provided with a sectional door, said casing having a recess contiguous to the receiving portion, a plunger extending into said recess and having its inner end contacting with the head of said rod, a tongue extending from one section of the door and adapted to be received within the recess as the door is closed to strike said plunger and cause the same to depress said rod to close the switch, although when one section of the door is opened for the usual purposes the tongue will be removed from the plunger to cause the spring to again open the switch, as and for the purposes set forth.

1,351,656. COMBINED END-GATE AND SHOVELING-BOARD. HENRY H. JOHNSON, Avoca, Iowa. Filed Oct. 12, 1917. Serial No. 196,195. 1 Claim. (Cl. 296—51.)

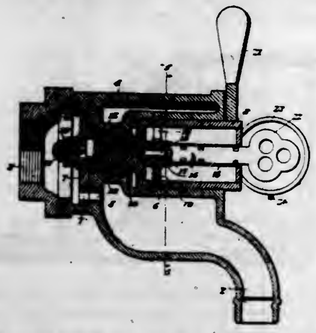
In an end gate structure for wagon bodies, the combination with an upper section closed at its upper portion and having legs at its sides extending downward, wings disposed at right angles to said legs and extending throughout their length, means pivotally connecting the lower ends of the wings with the wagon body, means detachably con-

necting the upper portion of this section with said body, and a door hinged to said section and having upright boards for closing the space between said legs and a cross board to lap said legs when the door is closed, the ends of such board having horizontal notches; of a bracket se-



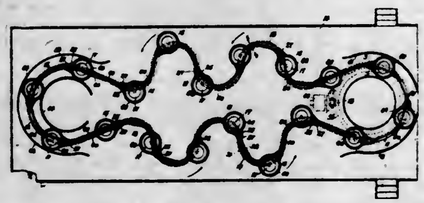
cured to each wing and having a nut, and a bolt passing through each leg and threaded at its inner end to engage said nut, its body having a shoulder next outside the leg and projecting beyond the shoulder to engage one of said slots and its outer end having a T-head adapted to be set across the slot, for the purpose set forth.

1,351,657. FAUCET. JOEL W. JOHNSON and ALBERT J. CARPENTER, Pine Bluff, Ark. Filed Aug. 30, 1918. Serial No. 252,091. 2 Claims. (Cl. 251—6.)



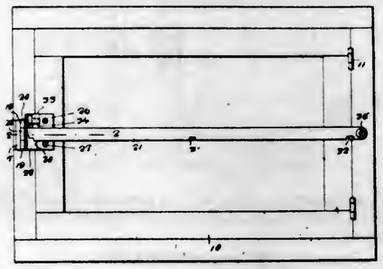
1. A faucet comprising a casing, a valve plate therein, a hollow stem connected with the valve plate, a handle on said stem, locking bolts located in the bottom of the hollow in the stem and adapted to engage a part of the casing, means carried by said bottom for actuating said bolts the top of the stem being closed and having a key hole therein and a key adapted to pass through said key hole to engage the bolt actuating means.

1,351,658. PLEASURE-RAILWAY. MARCUS JOHNSON, Brooklyn, N. Y. Filed Nov. 4, 1919. Serial No. 335,571. 13 Claims. (Cl. 104—66.)



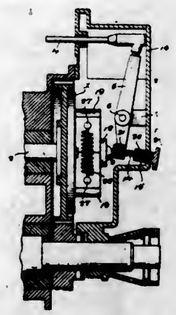
1. A pleasure railway, comprising a platform provided with an endless guideway, a plurality of cars mounted to travel on the said platform and extending across the said guideway, and propelling means arranged underneath the platform and having connecting means extending through the said guideway and each connected with a corresponding car to move the latter forward and to allow it to swing sidewise on the platform while traveling thereon.

1,351,659. SASH-BOWER. JOHN F. JOST, Leavenworth, Kans. Filed Apr. 12, 1918. Serial No. 228,184. 3 Claims. (Cl. 292—266.)



1. The combination with a sash frame having a sash hinged thereto, of a bar secured to the frame and capable of both horizontal bearing and vertical pivotal movement, an outwardly inclined inner plate carried by the frame, an outwardly inclined inner plate carried by the sash for contacting engagement with the first mentioned plate, both of said plates being provided with notches for engagement with the bar and means for securing the bar against movement.

1,351,660. GAS-ENGINE GOVERNOR. JOHN KATHE, Quincy, Ill. Filed May 20, 1919. Serial No. 298,557. 1 Claim. (Cl. 264—17.)



The combination in a governor, of a radially-slotted disk-like motor-driven rotary member, a housing in which said member is disposed, centrifugal members held to the face of the rotary member by means movable in the slots of the latter and yieldingly held against outward movement, said centrifugal members having inner lapped cam portions, a tubular guide carried by the motor-driven member and in which said cam portions are movable, a central endwise-movable plunger in said guide and having a cam portion opposed to the cam-portions of the centrifugal members, a lever mounted in the housing and movable by said plunger, and a spring arranged at the opposite side of the lever to the plunger.

1,351,661. COLOR-INDICATING CHART. JEAN FRANÇOIS KAUFMAN, New York, N. Y. Filed Sept. 4, 1918. Serial No. 252,619. 9 Claims. (Cl. 88—14.)

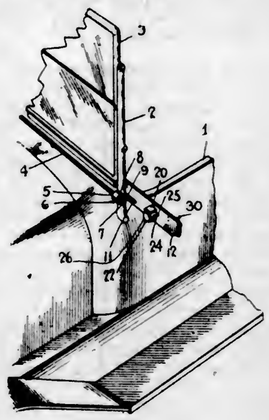
1. A color-indicating chart comprising a disk having a series of areas triangularly arranged, said areas having

applied thereto the three primary colors and blends of the adjacent colors graded through the intervening areas, a



cover plate for said chart having triangularly disposed view openings therein for exposing said colors, and a movable shutter adapted to expose and close said openings.

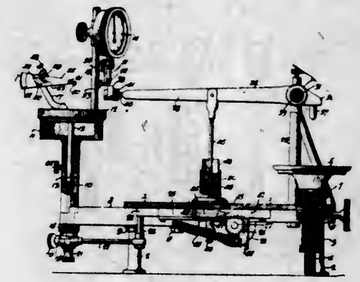
1,351,662. AUTOMOBILE-SIGNAL. HERMAN KLATT, Pueblo, Colo. Filed Mar. 24, 1919. Serial No. 284,564. 1 Claim. (Cl. 177—329.)



In an automobile direction signal, the combination of carrying means, a rectilinearly movable pointer member on said carrying means and provided with a rack, an incandescent electric lamp on the carrying means, and a switch complementary to said lamp and comprising a turning member provided with a gear that is intermeshed with the rack; manipulation of said turning member bringing about completion or interruption of the circuit connected with the lamp.

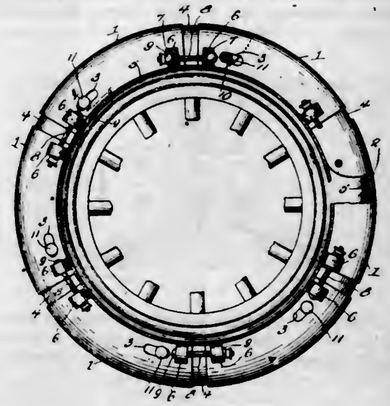
1,351,663. GAGE. JOHN R. KOCH, Philadelphia, Pa. Filed Nov. 22, 1919. Serial No. 339,924. 5 Claims. (Cl. 33—147.)

1. The combination in a gage, of a base; a table mounted on the base; means for adjusting the table; standards; a beam pivotally mounted on the standards and in the form of a lever; the short arm of the beam having a pin directly above the table; an indicator shiftable into and out of register with the long arm of the



beam and arranged to be actuated thereby; and means for raising the beam.

1,351,664. TIRE-ARMOR. HARVEY M. LALEY, Monessen, Pa. Filed Sept. 28, 1918. Serial No. 256,047. 1 Claim. (Cl. 152—17.)

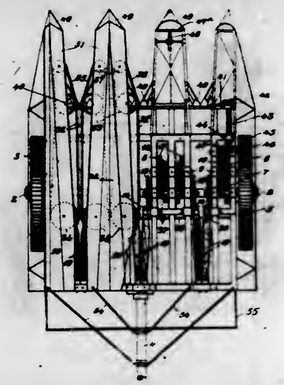


A tire armor comprising a plurality of circumferentially extended transversely bowed sections arranged in overlapping relation, each of said sections having one of its ends recessed and its other end reduced to be received in the recess of the co-acting section, an articulated connection between the respective sections, and means between the said sections for limiting an articulated movement there between.

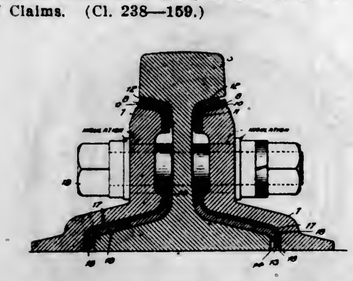
1,351,665. MAIZE OR INDIAN-CORN HARVESTING MACHINE. EMILIO LOGARZO, Buenos Aires, Argentina. Filed Nov. 18, 1916. Serial No. 131,989. 7 Claims. (Cl. 56—64.)

1. In a corn harvesting machine, the combination of a supporting frame, driving wheels for the frame, means carried by the front portion of the frame to gather fallen plants, a plurality of endless devices to receive the plants and carry them rearwardly with respect to the machine, cutting devices to sever the plants from the ground, and a

plurality of coöperating biconical rollers to remove the husks therefrom, said rollers having yielding fluted surfaces and operating in a plane different from the plane in which the endless devices operate.

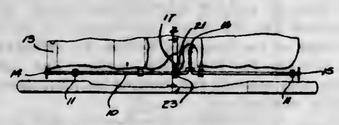


1,351,666. INSULATED AND ARMORED RAIL-JOINT. CHARLES G. MCCAULLEY, Washington, D. C., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Sept. 6, 1918, Serial No. 252,941. Renewed Feb. 4, 1920. Serial No. 356,124. 17 Claims. (Cl. 238—159.)



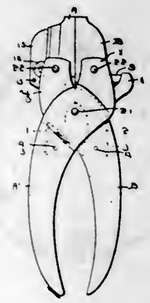
7. An insulated rail joint including a retaining member fitting the head of the splice bar and having a plurality of keeper elements, and an insulating unit engaging a keeper element and the head of the rail.

1,351,667. AUTOMOBILE-SIGNAL. JOSEPH L. MCWILLIAMS, San Francisco, Calif. Filed Jan. 25, 1919. Serial No. 273,058. 1 Claim. (Cl. 116—47.)



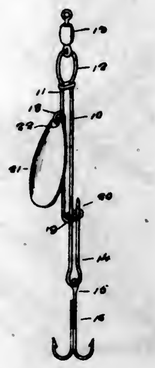
A direction indicator for an automobile including a longitudinally extending rock shaft having a crank portion, and a pinion, a vertical tubular member mounted adjacent the seat of the driver and extending through the floor of the automobile, a radial signal arm on each end of the shaft, a vertically reciprocable rod disposed through the tubular member and having a rack engaging with the pinion, and a spring connected to the crank portion and to the automobile for yieldably returning and holding the shaft and signal arms in normal central position.

1,351,668. PARALLEL-JAW PLIERS. ANTON MAR, New Haven, Conn. Filed Nov. 4, 1919. Serial No. 335,636. 5 Claims. (Cl. 7—3.)



5. In pliers of the character described, relatively movable jaws, one of said jaws being provided with a knife edge, an arm pivotally supported upon the jaw having the knife edge and provided with a companion knife edge to coöperate with the latter, means actuating the arm and actuated upon by the other jaw to effect the approach of the knife edges toward each other, and means for actuating the jaws for the opening and closing thereof.

1,351,669. ARTIFICIAL BAIT. CHARLES R. MANSFIELD, Crescent City, Calif. Filed Dec. 5, 1919. Serial No. 342,702. 4 Claims. (Cl. 43—28.)

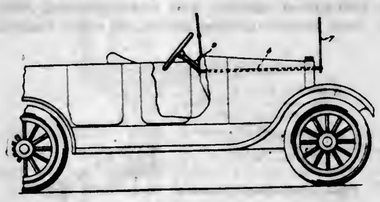


1. An artificial bait comprising a body portion formed from a single strand of wire and bent to provide an eye at one end of the body, and spaced limbs, one of said limbs terminating to provide a hook, an eye formed in the length of the other limb, and arranged at right angles to the aforementioned eye, the plate having an opening to receive said eye from which the plate is supported, and a laterally disposed open loop formed by the free ends of the second mentioned limb, said loop being adapted to embrace said hook to hold the latter closed.

1,351,670. TIRE-FILLER AND METHOD OF MAKING THE SAME. FRANC D. MAYNE, Chicago, Ill. Filed Jan. 27, 1919. Serial No. 273,239. 5 Claims. (Cl. 106—23.)

1. A tire filler, consisting of the following ingredients in the proportion stated: 152 lbs. of sunflower seed oil, 32 lbs. of sulfur chlorid, 5 lbs. of calcium hydroxid, 4 ozs. of soluble dyes, and 8 lbs. of soap oil.

1,351,671. DIRECTION-INDICATOR. JAMES ELMER MAYHALL, Covington, Ky. Filed Oct. 30, 1919. Serial No. 334,393. 1 Claim. (Cl. 74—39.)



The combination with a vertical support; of a semicircular plate mounted on the support with the convex edge thereof disposed uppermost, said plate having an opening at the axis thereof and a vertical slot above said opening near the convex edge, stop pins projecting from the face of the plate near the extremities of the convex edge, a shaft having bearing in the opening and adapted to support an arm at its opposite end for bearing a signal or the like, and a lever fixed to the shaft at the end thereof projecting through the plate and extending in juxtaposition to the face of the plate and beyond the convex edge thereof to form a handle, said handle being offset and having a projecting prong combining with the resiliency of the lever to engage in the slot automatically for maintaining said shaft and the arm in a fixed position, said pins serving to limit the swing of the lever, substantially as and for the purpose set forth.

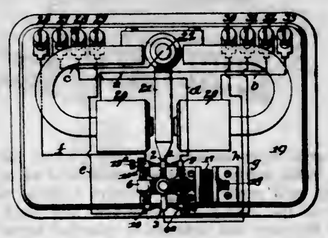
1,351,672. PROCESS OF PRODUCING DOUBLE SUPER-PHOSPHATE. CURTIS C. MEIGS, Philadelphia, Pa. Filed Oct. 28, 1919. Serial No. 333,955. 6 Claims. (Cl. 71—7.)

1. The herein described process of producing double super-phosphate which consists in treating phosphate rock with about one-half the amount of acid used in producing ordinary super-phosphate, treating the resulting mass with an excess of a solution of an alkali metal sulfate to produce a dialkali metal phosphate, filtering the products of the reaction, separating the free alkali metal sulfate from the filtrate, subjecting the remaining liquid to crystallization, separating the crystals formed, heating such crystals to a temperature of at least 100° F., subjecting the product to the action of dilute hydrochloric acid, subjecting phosphate rock to the action of the resulting solution, and drying the resulting product.

1,351,673. ALLOY. FOSTER MILLIKEN, Lawrence, N. Y., assignor to Foster Milliken, S. Fullerton Weaver, and James M. Repplier, trustees. Filed Oct. 8, 1919. Serial No. 329,375. 2 Claims. (Cl. 75—1.)

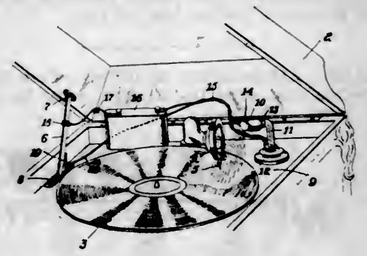
1. An alloy formed from copper 42 to 52 per cent., nickel 22 to 28 per cent., and lead 22 to 30 per cent.

1,351,674. RELAY-ARMATURE. JAMES ISHAM MITCHNER, Atlanta, Ga. Filed Aug. 5, 1918. Serial No. 248,362. 9 Claims. (Cl. 200—104.)



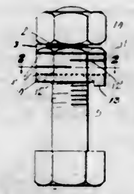
1. A relay armature having a plurality of insulated contacts, and a plurality of pairs of insulated contacts rockably mounted independently of the armature for adaptation to the associated armature contacts when the armature swings, and for simultaneous completion of a plurality of circuits.

1,351,675. LIGHTING ATTACHMENT FOR PHONOGRAPHS. WILLIAM C. MONEY, Washington, D. C., assignor of one-half to Henry Bogorad, Washington, D. C. Filed May 26, 1919. Serial No. 299,694. 1 Claim. (Cl. 240—2.)



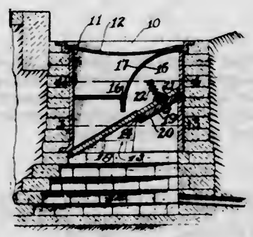
In combination with a talking or like machine, having a top plate movable cover with a brace arm for holding said cover elevated, a lighting attachment comprising a lamp, a battery, circuit connections, a clip to be slipped on the brace for closing the circuit at one end to the brace, and a contact supported by and at the upper face of the top plate to be borne upon by the brace when the cover is open and to be free from the brace when the cover is closed, thereby to control the lamp, substantially as described.

1,351,676. NUT-LOCK. WALTER S. MYERS, Darby, Pa. Filed Apr. 26, 1919. Serial No. 292,975. 4 Claims. (Cl. 151—21.)



1. In a nut lock, a nut having a bolt-receiving opening and a transverse slit communicating with the opening, the slit being filled with compressible soft, rust-resisting metal.

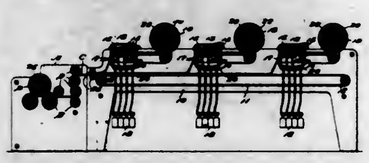
1,351,677. SEWER-TRAP. HENRY W. NAGEL, Charleston, S. C. Filed Jan. 20, 1919. Serial No. 272,070. 1 Claim. (Cl. 182—14.)



A sewer trap comprising an open-ended casing having curved grooves in the inner faces of two of its opposite

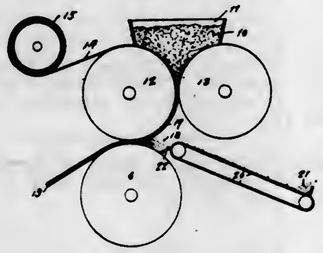
walls, a curved guard plate engaged in said grooves and extending into the casing, the lower portions of said grooved walls being cut out and formed with stop shoulders, inwardly extending pins carried by said walls, and a door having an inner thickened end portion formed with a longitudinal groove arranged to receive the said pins and whereby said door is pivotally supported in the casing, the said thickened portion of the door lying beneath the curved guard plate, and a spring carried by said thickened portion and arranged to be compressed against said guard plate when the door is swung open and to expand to impart an initial closing movement to the door when pressure is released from the door.

1,351,678. LAP-DRAWING MACHINE. PAUL NUCKOLS, Cordova, Ala. Filed Dec. 2, 1919. Serial No. 341,888. 6 Claims. (Cl. 19—8.)



4. In combination with a lap head, a lap drawing device comprising a frame, bracket members carried by said frame and adapted to journally support the spindles of a plurality of rolls of sheet cotton to be treated, a set of rollers associated with each roll and arranged adjacent the associated brackets, each set of rollers including upper and lower rows coöperating for engagement with the sheet of cotton, means for driving the rollers in each set,—co-acting teeth formed on the corresponding upper and lower rollers in each set, and means for conducting the sheet of cotton from each set of rollers to the lap head, said means comprising a plurality of guide rollers interposed between said frame and said lap head.

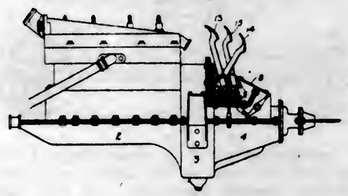
1,351,679. METHOD OF INLAYING LINOLEUM AND THE PRODUCT THEREOF. CHARLES A. O'BRIEN, Kearney, N. J., assignor to The Nairn Linoleum Company, Kearney, N. J., a Corporation of New Jersey. Filed Jan. 26, 1918. Serial No. 213,885. 7 Claims. (Cl. 154—26.)



1. A method of inlaying linoleum which consists in forming a ground web and thereafter rolling into the material thereof spaced elements of differently colored material to form therewith a patterned ground said colored material being in comminuted form.

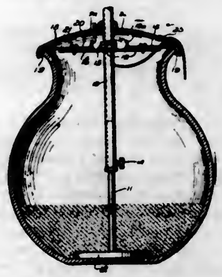
1,351,680. TRANSMISSION-CASE. GEORGE H. PADGETT, Otisville, N. Y. Filed June 18, 1919. Serial No. 305,028. 2 Claims. (Cl. 74—56.)

1. A transmission case, including a case formed with a substantially square conventional opening through its upper face, such opening being formed around three of its sides with a flange, such case being formed with a further opening to one side of and in communication with such first-named opening and communicating with the same, such second opening having its edges flanged, and



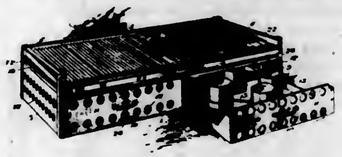
a plate adapted to seat within such second-named opening, the upper edge of such plate being flanged, and when in applied position forming a continuation of the flange around the first-named opening whereby the plate therefor may seat properly.

1,351,681. LAMP-FIXTURE. JAMES S. PENNEFATHER, New York, N. Y., assignor of one-half to William E. Price, New York, N. Y. Filed July 30, 1919. Serial No. 314,209. 4 Claims. (Cl. 240—52.)



3. An adapter for securing illuminating fixtures to vases, comprising; a rod inserted in a vase, an anchor base carried on the end of the rod to mount said rod in the vase, a hub on the rod, radial arms on the hub, a clamp arm adjustably related with each radial arm, and a hook made on each end of the clamp arm to grasp the rim of a vase.

1,351,682. GRILL-STOVE. ISAAC C. POPPER, New York, N. Y., assignor to The Theros Company, New York, N. Y., a Corporation of Delaware. Filed May 8, 1920. Serial No. 379,862. 6 Claims. (Cl. 126—43.)



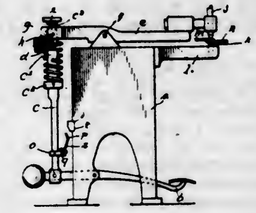
1. A grill stove including a body portion having perforated walls, guides at opposite sides, and an open front, a sliding grill rack, sliding drawers adapted to fit and be slid in the guides and openings, and rigid lugs for holding the rack and drawers in position when slid into place, and for guiding and supporting them when pulled out of their normal position.

1,351,683. PIPE. NATHAN H. PRICE, Shannon, Ala. Filed Aug. 25, 1919. Serial No. 319,598. 2 Claims. (Cl. 131—12.)



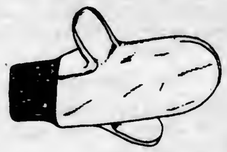
2. In combination with a smoker's pipe having an opening through the bottom of the smoke chamber thereof, a clamp having a hook-shaped end on the stem of the pipe, and the said stem between the clamp and the referred to opening having a depression providing a pocket on its under face, of a combined cleaning and supporting means for said pipe including a disk designed to be received in the smoke bowl below the passage in the stem of the pipe, a stem on said disk passing through the opening in the smoke bowl, a spring rod pivotally secured to the outer end of the stem designed to contact with the stem of the pipe and to be engaged in the hook of the clamp for holding the said disk in the smoke chamber, and the stem of the said disk designed to be received in the opening in the stem of the pipe and the spring rod adapted to exert a pressure between the hook of the clamp and the mouth piece of the pipe when the device is employed as a support for the pipe.

1,351,684. METHOD AND APPARATUS FOR UNITING TOGETHER PIECES OF BRASS, ALUMINIUM, AND SIMILAR METALS OR ALLOYS BY ELECTRIC-RESISTANCE HEATING. NORBERT PRÖSTLER, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 26, 1915, Serial No. 30,573. Renewed Jan. 14, 1920. Serial No. 351,494. 3 Claims. (Cl. 219—10.)



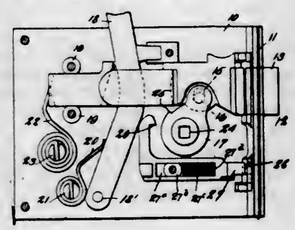
1. The method of uniting brass pieces by electric resistance heating, which consists in subjecting the brass pieces to be united to a gradually increasing yielding electrode-pressure, closing the electric welding circuit, and, when a fusion has been produced by the electric current at the place of welding, transforming said gradually increasing electrode pressure acting upon the brass pieces into a non-yielding pressure adapted to render the uniting of said brass parts more perfect.

1,351,685. REVERSIBLE HAND-COVERING. CHARLOTTE M. PUTNAM, Falls City, Nebr. Filed Oct. 1, 1917. Serial No. 194,186. 1 Claim. (Cl. 2—102.)



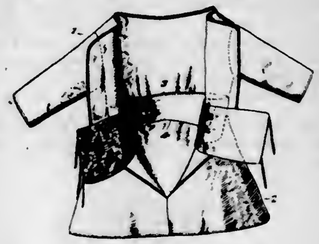
In a reversible mitten, a one piece body folded longitudinally to provide a front and back and having a pair of slits adjacent the line of fold providing a tongue and another slit adjacent one side edge providing a second tongue, a thumb blank secured to the first tongue and edges of the pair of slits, and a second thumb blank secured to the second tongue and to the edge of said other slit and directly to the side edge of the body opposite the second tongue.

1,351,686. LATCH. PASQUALE RACCIO, New Haven, Conn., assignor, by direct and mesne assignments, to The Racolock Company, New Haven, Conn., a Corporation of Connecticut. Filed Aug. 5, 1919. Serial No. 315,472. 2 Claims. (Cl. 292—333.)



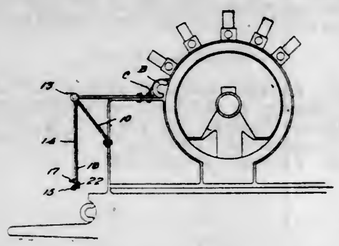
1. In a latch, a casing, a bolt slidable therein, means for urging the bolt outwardly, a rollback having a shoulder, means for operatively connecting the rollback and latch whereby they move in unison, a trigger bolt slidable in the casing and projecting therefrom, means for holding the trigger bolt projected, means for retracting the trigger bolt, a trigger carried by the trigger bolt and adapted to engage the shoulder of the rollback when the bolt is retracted, and means for retracting the bolt.

1,351,687. GARMENT. ANNA L. RANKIN, Peoria, Ill. Filed Mar. 17, 1919. Serial No. 283,027. 1 Claim. (Cl. 2—145.)



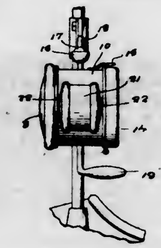
A garment for infants comprising a shirt and a skirt forming a continuation of the shirt, said shirt and the upper part of the skirt being opened in the front, a bandage of greater diameter than the garment and having its upper edge secured to the inner part of the shirt at a point adjacent the connection of said shirt with the skirt, said bandage opening in front and having overlapping ends, said ends being free of the shirt and the lower rear part of said bandage being cut away to make the rear part of less width than the front part and means for connecting the ends of the bandage to the other parts thereof whereby the diameter of the bandage may be adjusted.

1,351,688. ATTACHMENT FOR IRONING-MACHINES. GEORGE F. RAMM, Del Monte, Calif. Filed Feb. 20, 1920. Serial No. 360,128. 5 Claims. (Cl. 68—9.)



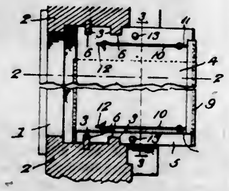
1. An attachment for ironing machines comprising a shield detachably mounted upon the delivery end thereof and arranged in depending position for covering the traveling apron thereof.

1,351,689. COMBINED LAMP AND SIGNAL. FREDERICK RAUSCHER, New York, N. Y. Filed June 9, 1919. Serial No. 302,682. 2 Claims. (Cl. 240—11.)



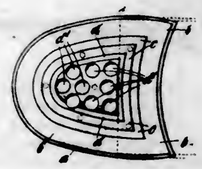
1. The combination with an automobile lamp, including a casing, of a signal comprising a relatively small casing carried by and arranged at one side of the lamp casing, a lens at each end of said small casing, reflectors disposed within said casing and dividing the latter into separate compartments, a plurality of bulbs arranged in each compartment and varying in color, and certain lights of the respective compartments being in circuit and adapted to be lighted simultaneously and independently of the remaining bulbs.

1,351,690. WINDOW-SEAT. ALFRED RIDING, Worcester, Mass. Filed Sept. 27, 1918. Serial No. 255,923. 1 Claim. (Cl. 804—26.)



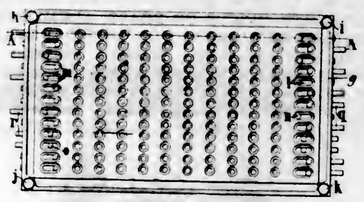
A window seat comprising a lower base board having upwardly extending flanges at its front and rear edges, said flanges having grooves therein, an upper base board mounted on the lower board and having its edges engaging said grooves, the outer end edge of each board having notches therein for engaging the window beads and a back support hinged to the upper base board.

1,351,691. RESILIENT HEEL OR LIFT FOR BOOTS AND SHOES. HARRY CHARLES RIDOUT, Bournemouth, England. Filed Jan. 7, 1920. Serial No. 349,915. 10 Claims. (Cl. 36—35.)



1. In a resilient lift for boots, the combination of a plurality of surfaces arranged in tiers on the upper part of the lift so as to provide a plurality of recesses one within another in the upper face of the said lift.

1,351,692. MEANS FOR COMPILING TABULAR AND STATISTICAL DATA. HERBERT EDWARD SOPER, London, England. Filed July 23, 1918. Serial No. 246,272. 5 Claims. (Cl. 129—16.1.)



1. Means for compiling data of the kind specified, comprising a number of sheets superposed in a file, each sheet answering to a character into one of whose alternative categories and individual entry from the data may be placed; means for giving definitive displacements in its plane to each sheet at will without displacing the other sheets, such displacements by their distances and direction answering in predetermined manner to the several categories into which the character borne by the sheet is divided; said sheets having successive entries recorded thereon by means comprising a single hole extending through the mass of sheets when these have been given the displacements appropriate to the classification of the entry, said entries being distinguished by their position in serial order upon the face of the file.

1,351,693. PROCESS OF PRODUCING ALKALI-METAL HYDROXIDS. SAMUEL S. SADTLER, Springfield township, Montgomery county, Pa. Filed Mar. 21, 1919. Serial No. 284,064. 10 Claims. (Cl. 23—22.)

1. The process of producing an alkali metal hydroxid which consists in reacting upon disodium phosphate with calcium hydroxid in the approximate proportions of from 148 to 222 parts by weight of the hydroxid to 284 parts by weight of the phosphate.

1,351,694. METAL LATH. STEPHEN SCANLON, New York, N. Y. Filed Feb. 4, 1919. Serial No. 275,013. 1 Claim. (Cl. 72—116.)

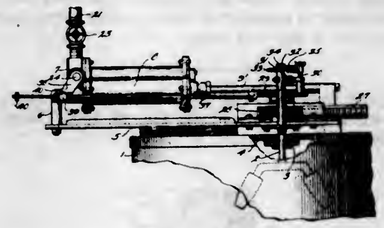
A lath comprising a sheet metal blank folded upon itself at equi-distantly spaced intervals to provide layers contacting throughout their entire area and adapted to be

expanded to form oppositely disposed substantially triangular pockets, said pockets tapering inwardly from



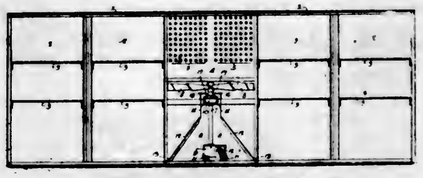
their outer open ends to provide gradually decreasing opposed upper and lower walls which meet at their inner pointed ends.

1,351,695. MOTOR. JOHN SCHROEDER, Davenport, Iowa. Filed Jan. 31, 1920. Serial No. 355,390. 5 Claims. (Cl. 121—164.)



1. A valve gear, comprising a shaft, means for turning the shaft in opposite directions, a crank disk loose on said shaft, means on the shaft and disk compelling the disk to turn with the shaft during a portion of the rotary movements of the shaft in both directions, a spring operatively connected to the disk and compelling the latter to complete its movements in both directions, a valve operating crank arm, and a rod connecting the disk and crank arm.

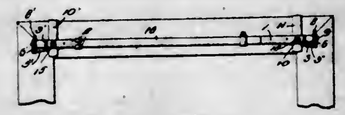
1,351,696. FAN FOR DRYING-MACHINES. WALTER M. SCHWARTZ and ELWOOD B. AYRES, Philadelphia, Pa., assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 7, 1920. Serial No. 357,095. 5 Claims. (Cl. 34—39.)



1. The combination in a drier, of a drying chamber; a tunnel in the drier; a driving shaft extending into the tunnel; a vertical shaft driven from the driving shaft; bearings for the vertical shafts; and fans carried by the vertical shafts for circulating the air in the drying chamber.

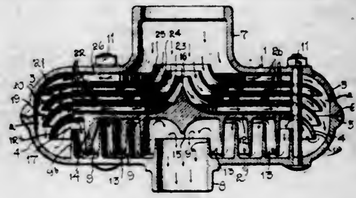
1,351,697. ADJUSTABLE SHADE AND CURTAIN-POLE SUPPORTING BRACKET. ELISHA T. SHEPPARD, Stonega, Va. Filed Oct. 11, 1919. Serial No. 330,084. 2 Claims. (Cl. 156—23.)

2. In combination, a lower flat bar terminating at one end in two clasping lugs and at the other in an outstanding shade supporting ear, a rightangular bracket ending in a pole supporting hook held to said bar, a bolt passing through said bar and bracket, a counterpart flat upper bar held below said clasping lugs, at one end and having an outstanding shade supporting ear, a counterpart rightangular bracket ending in a pole supporting hook held to



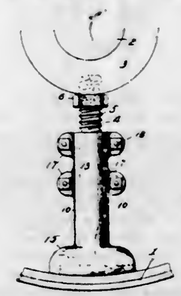
said bar, a bolt passing through said last bar and bracket, a hanger held to each of said bolts ending in a rightangular supporting shoulder, a pinch collar surrounding said two bars, and an S-shaped hook having a stop shoulder pivotally held to the end of each of said supporting hooks.

1,351,698. MUFFLER FOR STEAM AND GAS ENGINES. CHARLES S. SHUMAN and SOREN SCOTT HANSON, New York, N. Y., assignors to Vacuum Muffler Corporation of America, New York, N. Y., a Corporation of New York. Filed Dec. 22, 1919. Serial No. 346,670. 14 Claims. (Cl. 137—160.)



1. The method of muffling engine exhausts, which comprises subdividing the engine exhaust into a plurality of concentric portions, separately directing said portions into parallel layers at substantially right angles to the direction of initial flow, expanding and thereby cooling each layer separately, discharging and expanding the cooled gases directly into an expanding chamber and passing the united expanded gases over cooling surfaces into the direction of initial flow.

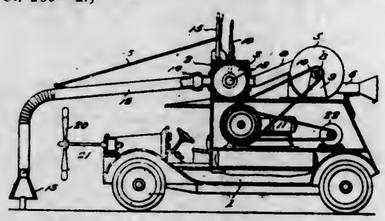
1,351,699. PROTECTOR FOR TROMMEL-SPOKES. FRANK SMARCH, Anaconda, Mont. Filed Mar. 31, 1920. Serial No. 370,314. 2 Claims. (Cl. 83—66.)



1. In a trommel wherein are employed radial spokes each with an expanded head for abutment against the rim of the trommel, means for protecting the stems of the spokes and the heads of the spokes from wear, consisting of a longitudinal divided sleeve adapted to be applied

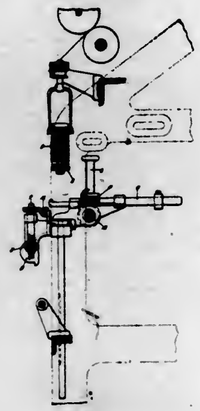
about the spoke and fastened thereto, said sleeve having a laterally expanded end portion adapted to over-ride and house the head end of the spoke and press against the inner periphery of the rim and the fastening means whereby the head end of the spoke is made fast to the rim of the trommel.

1,351,700. FIRE-ENGINE. PAUL E. SMITH, Henrietta, Tex. Filed Feb. 7, 1920. Serial No. 356,953. 3 Claims. (Cl. 169—1.)



1. An apparatus for extinguishing fires in oil wells comprising a wheeled frame, a suction producing apparatus carried thereby, a suction tube connected with the apparatus, a nozzle at the free end of said tube for fitting over the mouth of the well and an outlet conduit connected with the suction means and extending through the rear of the frame.

1,351,701. DOFFING MECHANISM FOR FLIER SPINNING, TWISTING, DOUBLING, AND ANALOGOUS MACHINES. PRINCE SMITH, Jr., Keighley, England. Original application filed Mar. 12, 1918, Serial No. 222,009. Divided and this application filed July 31, 1918. Serial No. 247,517. 1 Claim. (Cl. 118—18.)



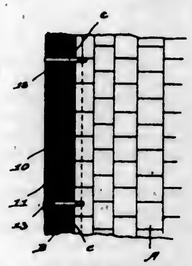
Doffing mechanism for flier spinning, twisting, doubling and analogous machines embodying a vertically movable lifter plate for carrying empty bobbins, a vertically movable lifter plate for carrying full bobbins, a horizontally reciprocable rack having a plurality of recesses for receiving said lifter plates, the lifter plate recess for the empty bobbins being disposed in the rear of the lifter plate recess for the full bobbins, and receiving means immovable at intervals and vertically movable at other times for engaging and raising the lifter plate with the full bobbins to permit the return movement of said rack, said recesses being so spaced that when the lifter plate with the full bobbins is in operative position with relation to said means the empty bobbins are in proper alinement and ready to be elevated to spinning position.

1,351,702. VALVE-GEAR FOR STEAM-ENGINES. WILLIAM H. SMITH, Picher, Okla. Filed Aug. 22, 1918. Serial No. 250,985. 1 Claim. (Cl. 121—164.)



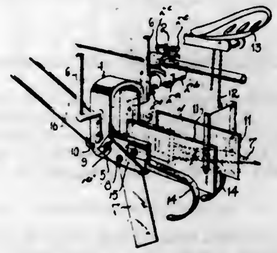
A valve gear for steam engines comprising a plate adapted to be loosely carried by a cross head guide and having an elongated slot of less length than the stroke of the cross head adapted to receive a cross head pin whereby to slightly reciprocate the plate, a shaft adapted to be arranged transversely of the cross head guide, an arm pivoted to the plate and fixed to the shaft intermediate the extremities thereof, a second arm fixed to the end of the shaft, a rod, a link pivotally connecting the rod to the second named arm, and a cross arm adapted to be fixed to a steam control valve and pivotally connected with the rod whereby to actuate the steam control valve upon reciprocation of the cross head.

1,351,703. EAVES-TROUGH SCREEN. WILLIAM L. SPRIGGS, Bixby, Okla. Filed Jan. 23, 1920. Serial No. 353,465. 1 Claim. (Cl. 108—28.)



An attachment for eaves-troughs comprising a wire screen having one edge rolled for conforming engagement upon the rolled outer edge of the trough and having its other edge portion formed with an upwardly extending channel engaged upon the rear edge of the trough, the screen being provided at intervals with openings for the accommodation of the braces holding the trough in position upon the roof.

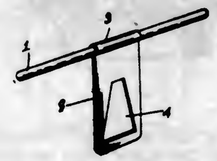
1,351,704. CULTIVATOR ATTACHMENT. THOMAS STARCH, Ralls, Tex. Filed Aug. 20, 1919. Serial No. 318,681. 2 Claims. (Cl. 97—13.)



1. An attachment for cultivators, consisting of an inverted U-shaped member having rearward projecting angled extensions at its lower end, means for securing said U-shaped member to a cultivator, spring tooth bars

and plate guards disposed on opposite sides of each of said extensions, and means for adjustably securing said spring tooth bars and plate guards to said extensions, including a common pivotal supporting member for the tooth bar and plate guard carried by each of said extensions.

1,351,705. RAIL-LIFTER. JOHN B. STIMATZE, St. John, Kans. Filed Feb. 21, 1920. Serial No. 360,375. 2 Claims. (Cl. 294—15.)



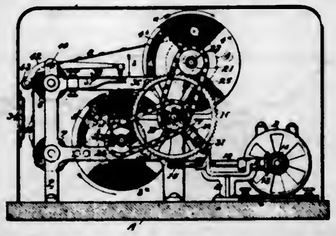
1. A device of the class described comprising a handle member and a plate carried thereby and having a rail receiving opening therein.

1,351,706. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. WILLIAM E. STITZER, Muskogee, Okla. Filed Nov. 24, 1919. Serial No. 340,173. 1 Claim. (Cl. 184—65.)



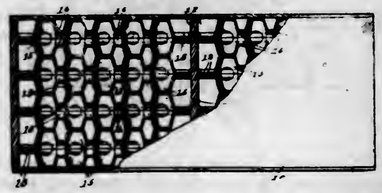
In an internal combustion engine, the combination with the lubricator casing, of a normally open short circuiting circuit for the ignition circuit, and means controlled by the level of the oil in the lubricator casing for closing said circuit when said level falls below a predetermined point, said means comprising an arc shaped float, a rod on which the float has guided movement, a contact member connecting the ends of the float, and a rod supported by the casing in insulating relation and having a lug at its lower end for engagement by the contact member.

1,351,707. INDICATOR. MICHAEL F. SULLIVAN, San Francisco, Calif., assignor to Gertrude A. Margeson, San Jose, Calif. Filed Aug. 22, 1918. Serial No. 250,961. 2 Claims. (Cl. 40—53.)



1. In a street indicator, a frame, a pair of rollers borne by the frame and having a belt engaged therewith, means to drive the rollers including a motor, and means to stop the motor including a contact device, means to connect said device to the frame, an L-shaped rocker arm having one end horizontal and arranged above the device and formed to close the device, said rocker arm being pivoted at its angle to the frame and having its other end depending downwardly from the pivot, and projections on the belt engageable with said other end of the arm to raise the latter, the depending end of the rocker arm being formed so as to normally maintain the horizontal end thereof out of engagement with the contact device.

1,351,708. EGG-CASE. GEORGE THEMANN, Joliet, Ill., assignor of eleven per cent. to Fred A. Muentnich, Joliet, Ill. Filed June 28, 1919. Serial No. 307,436. 2 Claims. (Cl. 217—26.)



1. An egg case comprising a receptacle, egg container units therein, said container units being formed with spaced egg receiving portions arranged in superimposed relation with the pockets of adjacent upper and lower units staggered and air circulating passages between the pockets.

1,351,709. SOUNDING-BOARD FOR MUSICAL INSTRUMENTS. JOSEPH VIRZI, New York, N. Y. Filed Feb. 12, 1920. Serial No. 358,165. 2 Claims. (Cl. 84—44.)



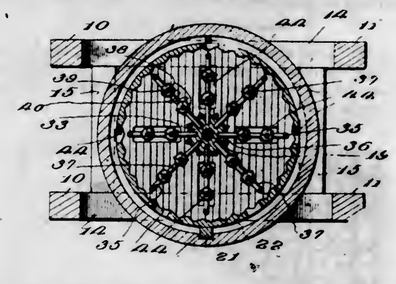
1. In a musical instrument, the combination with a sounding board and a bridge on one side thereof, of an auxiliary sounding board on the opposite side of the main sounding board from the bridge, and means extending between the sounding boards to support the auxiliary sounding board leaving the periphery of the auxiliary sounding board free, said supporting means being in alinement with the bridge.

1,351,710. METHOD OF OPENING THE SHADE ENDS OF HAND-BLOWN GLASS ROLLERS. CHARLES F. WARRICK, Morgantown, W. Va., assignor to United States Window Glass Company, Morgantown, W. Va., a Corporation of West Virginia. Filed May 9, 1919. Serial No. 295,977. 4 Claims. (Cl. 49—77.)

1. A method of opening the shade end of hand blown rollers comprising applying heat to a small area at the

apex of said closed end and confining the heat to said area, and causing the gases within the roller to expand until said small heated area blows open.

1,351,711. POTATO-PEELER. SAMUEL JESSIE WHITE, Haleyville, Ala. Filed Jan. 28, 1919. Serial No. 273,676. 4 Claims. (Cl. 146—14.)



1. In a device for peeling potatoes or like articles, the combination with a receptacle for containing a mass of the articles; of a flail consisting of a staff and a swingle flexibly connected therewith and having a roughened surface, and means for moving the staff through the mass and permitting the swingle to trail from it.

1,351,712. SAFETY-RAZOR. WILLIAM A. BARRY, Little Rock, Ark. Filed May 19, 1920. Serial No. 382,671. 10 Claims. (Cl. 30—12.)



7. In a safety razor, a front plate, an adapter having means to engage a razor blade, and means on said front plate to prevent longitudinal and angular displacement of said adapter.

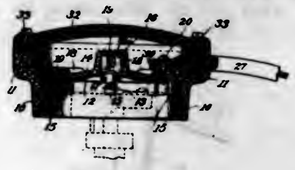
1,351,713. SAFETY-RAZOR. WILLIAM A. BARRY, Little Rock, Ark. Filed June 12, 1920. Serial No. 388,594. 24 Claims. (Cl. 30—12.)



9. In a safety razor, a blade, superimposed members between which the blade is held, one of said members having a reduced central portion, means for positively positioning the blade with reference thereto, and means for flexing the one member to slide the blade along the other member to vary the position of the edge of the blade with reference to said other member.

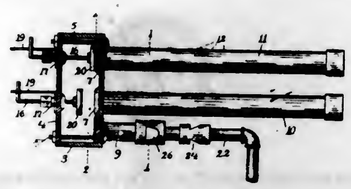
1,351,714. DISTRIBUTER-HEAD FOR IGNITION DEVICES. ALBERT E. BERDON, Anderson, Ind., and CLARENCE RINGWALD and ALBERT B. GOMORY, Detroit, Mich., assignors to Remy Electric Company, Anderson, Ind., a Corporation of Indiana. Filed May 25, 1917. Serial No. 170,820. 5 Claims. (Cl. 200—23.)

4. A distributer head for ignition apparatus comprising a shell divided by a partition into a cable receiving chamber and into a distributer chamber; L-shaped distributer posts embedded in said partition, each having one leg thereof exposed in the distributer chamber; a plurality of insulated cables extending through the shell into the cable receiving chamber, said cables having their ends flattened out and provided with holes passing through the insulated portion and the conducting portion of the cables; screws



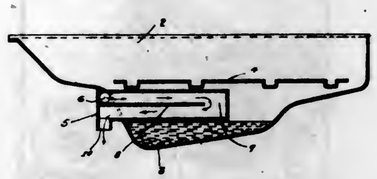
passing through said holes and having threaded engagement with the distributer posts whereby to hold said cable ends in position and for making electrical connection with the posts; and a detachable cover for the cable receiving chamber for permitting ready access to the cable securing means, said cover being removable from the head without interference with any of said cables.

1,351,715. GAS-BURNER. GEORGE W. CALEF, Boston, Mass. Filed Nov. 5, 1919. Serial No. 335,821. 4 Claims. (Cl. 158—105.)



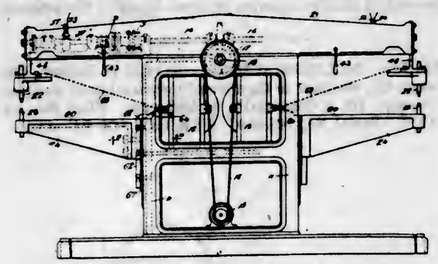
2. A gas burner comprising a hollow header adapted to receive a supply of burning gas, a plurality of burner tubes communicating with the interior of the header, a cap for the inner end of each tube, a stem supporting each cap slidably supported by a wall of the header and extended through the same to the exterior thereof, each stem having means for rendering its passage to the exterior gas-tight, the outer end of each stem being bent upward, and a slotted guide slidably receiving each upward-bend.

1,351,716. CRANK-CASE EVAPORATOR. FREDRICK I. COCHRANE, Minneapolis, Minn., assignor to Crank Case Evaporator Company, a Partnership composed of Harvey E. Mack and Frederick I. Cochrane. Filed Feb. 16, 1920. Serial No. 358,913. 5 Claims. (Cl. 123—198.)



1. The combination, with a gas engine crank case, of a member mounted to project into the case with a greater portion of its walls above the level of the oil therein, means for circulating a heating agent through said member to heat the walls thereof and evaporate the moisture within said crank case.

1,351,717. DUPLEX ROTARY ELECTRIC WELDING-MACHINE. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 17, 1919. Serial No. 290,783. 20 Claims. (Cl. 219—4.)

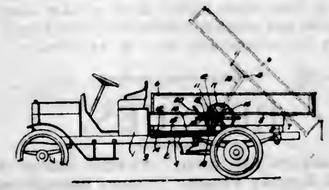


1. In an electric welding machine, a frame, a transformer mounted therein, welding electrodes arranged in the secondary circuit of said transformer, a power driven shaft journaled in said frame, and connections operated thereby and including friction disks yieldingly held in contact with each other for reciprocating one of said electrodes toward and from the other.

1,351,718. COMBUSTION-ENGINE. WILLIAM T. PRICE, New Rochelle, N. Y., assignor to De La Vergne Machine Company, New York, N. Y., a Corporation of New York. Filed June 22, 1915. Serial No. 35,498. 12 Claims. (Cl. 123—119.)

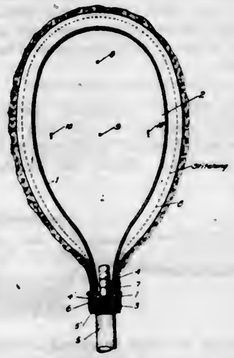
3. In an internal combustion engine, a crank inclosure having double walls with offset ports communicating respectively with the crank space and with the atmosphere and affording a circuitous passageway constantly open to oscillatory air movement.

1,351,719. DUMPING VEHICLE-BODY AND HOIST THEREFOR. ROBERT W. ROSE, Clifton, Mass., assignor to Lally Commercial Body Company, Everett, Mass., a Corporation of Massachusetts. Filed Aug. 21, 1915. Serial No. 46,657. 2 Claims. (Cl. 298—11.)



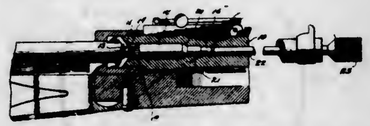
1. Hoisting apparatus of the kind described, comprising a vehicle frame having fixed tracks at each side, a dumping vehicle body adapted to be inclined on said frame about a pivot near the rear of the body, hoisting mechanism to incline said body, comprising a pair of rigid bent arms, one arm at each side of the body, each arm having a roll adapted to bear upon said track, each arm consisting of two portions extending at an angle to each other, one portion being substantially in vertical position when the body is lowered and the other portion extending horizontally, a winding shaft carried by the frame approximately in the same horizontal plane as the upper end of the vertically extending portions of the bent arms and flexible connections from said winding shaft to the outer free ends of each arm, said connections leading over the elbow at the junction of said vertical and horizontal extending portions of the arms, and means to rotate said shaft to wind up the flexible connections and operate the hoisting mechanism.

1,351,720. CLEANING APPLIANCE. GEORGE LEON BARTLETT, Boston, Mass. Filed June 1, 1917. Serial No. 172,808. 3 Claims. (Cl. 15—51.)



1. A cleaning appliance comprising in combination a frame, a bag of flexible sheet material secured to and receiving said frame, means to introduce a cleaning fluid into said bag; said sheet material when said bag is filled with said fluid, presenting a filamentary fluid-cushioned surface to the article to be cleaned and being perforate to permit of a flow of the fluid out from said bag into and through the mass of filaments composing said surface, said filaments being substantially incapable of opposing flexure thereof and being so close together that said surface is felt-like and permits said fluid merely to seep therethrough.

1,351,721. HEADSPACE-MICROMETER. THEODORE H. EICKHOFF, Washington, D. C., and CHARLES A. TUNKS, Cleveland, Ohio, assignors, by direct and mesne assignments, to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed July 25, 1917. Serial No. 182,761. 7 Claims. (Cl. 33—163.)



1. A headspace micrometer for measuring the length of the firing chamber in a firearm comprising a beam adapted to be placed in the firing chamber, and a sleeve movable longitudinally of the beam and adapted to be placed in the firing chamber, the sleeve and the beam having measuring faces respectively adapted to engage the forward and rearward ends of the firing chamber when the firing chamber is closed, and means adapted to extend through the barrel of the firearm for moving the sleeve and beam longitudinally of each other when the firing chamber is closed.

1,351,722. MEMBER FOR SHOE-UPPERS. WILLIAM F. LAUTENSCHLAGER, Cincinnati, Ohio, assignor to Lorens Muther, Newton, Mass. Filed Oct. 20, 1917. Serial No. 197,611. 5 Claims. (Cl. 36—57.)



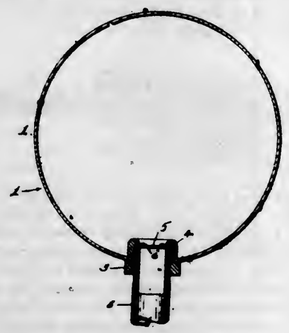
2. A shoe upper member having a marginal edge folded over, and a folded tape having adhesive exterior surfaces, lying within the folded margin, the folded edge of the tape coinciding with the turned over edge of the material, and the double edges of the tape coinciding with the fold of the material.

1,351,723. BLACKING-DAUBER. LEWIS MARCHIONE, Boston, Mass., assignor to The Self Feeding Dauber Co., Inc., Boston, Mass., a Corporation of Massachusetts. Filed July 21, 1919. Serial No. 312,423. 3 Claims. (Cl. 15—46.)



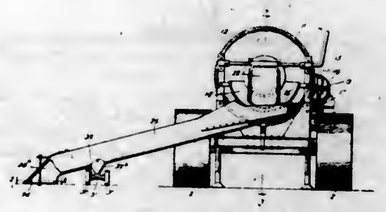
1. In a device of the class described, a container, spreading means carried thereby, a closed substantially tubular receptacle connected to said container and communicating therewith, a plunger within said receptacle, a circumferentially grooved portion on said plunger intermediate its ends, and forming two plunger heads, two apertured portions on the walls of said receptacle and spaced from each other, and adapted for alternate communication with said grooved plunger portion, and respectively in communication with said container and with said spreading means, and operating means exterior of said receptacle connected to said plunger, and elastic cushioning means between the plunger and the bottom of the receptacle.

1,351,724. CONDUIT-SEAL. JOHN I. MISENER, Syracuse, N. Y., assignor to Misener & Irving Manufacturing Co. Inc., Syracuse, N. Y., a Corporation of New York. Filed June 18, 1918. Serial No. 240,622. 2 Claims. (Cl. 247—7.)



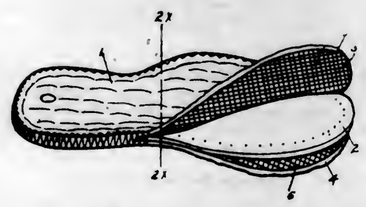
1. The combination of a conduit outlet box, a conduit extending through one wall thereof, means for securing said conduit in position including a bushing threaded upon the end of the conduit and bearing against the inner face of the box wall, an annular internal flange provided on the bushing and extending over the end edge of the conduit and a flat disk of puncturable insulating material having its marginal edge held between the end edge of the conduit and the annular internal flange of the bushing.

1,351,725. MIXING-MACHINE. ALFRED D. MOSBY, Chicago, Ill., assignor to Equipment Corporation of America, Chicago, Ill., a Corporation of Delaware. Filed Feb. 14, 1917. Serial No. 148,470. 6 Claims. (Cl. 94—44.)



5. A mixing machine having a discharge device having its discharge end provided with wheels adapted to rest and travel upon the surface on which the machine stands, in combination with means for supporting said wheels to permit them to swing horizontally and tilt vertically.

1,351,726. HAIR INSOLE. JOHN T. STORY, New York, N. Y. Filed Feb. 2, 1920. Serial No. 355,832. 3 Claims. (Cl. 36—44.)

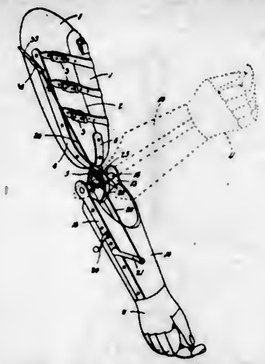


1. An insole having an intermediate layer of binding material, a layer of hair loosely disposed on one side thereof and stitched thereto, a layer on the other side formed of a thin fabric with a layer of hair loosely disposed thereon and stitched thereto, the second layer being fastened to the intermediate layer by an adhesive.

REISSUES.

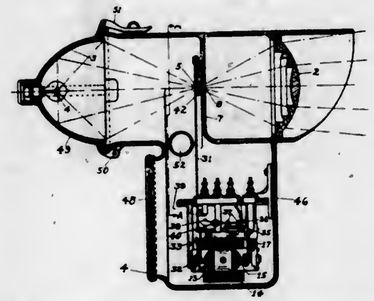
14,939. ARTIFICIAL ARM. WILLIAM PURVES ANDERSON and NORMAN CARLYLE CLARKE, Birmingham, and JOHN FALCONER WHITELAW, Erdington, England. Filed May 21, 1920. Serial No. 383,285. Original No. 1,272,179, dated July 9, 1918, Serial No. 172,041, filed May 31, 1917. 9 Claims. (Cl. 3—12.)

1. In an artificial arm, the combination of an upper arm socket, a forearm pivoted thereto, a sliding bolt for locking said forearm in its adjusted position relatively to the socket, a crank on the forearm controlling



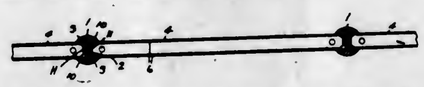
said sliding bolt and having a limited movement only, and a controlling cable connected to said crank for the purpose specified.

14,940. LIGHT-SIGNAL. ELI J. BLAKE, Buffalo, N. Y., assignor to Hall Switch & Signal Co., a Corporation of Maine. Filed May 26, 1920. Serial No. 384,478. Original No. 1,279,638, dated Sept. 24, 1918, Serial No. 178,720, filed July 5, 1917. 15 Claims. (Cl. 240—23.)



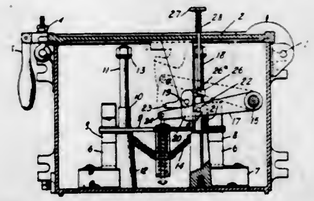
10. In combination, a source of light, means for condensing rays of light from said source at a focal point, a plurality of color filters, means for selectively moving one color filter or another into position at said focal point so that the rays of light at that point may pass through it, and means for changing the direction of the light rays after they have passed through the color filter.

14,941. REINFORCING MEANS FOR CONCRETE STRUCTURES. WILLIAM GOLDIE, Wilkinsburg, Pa. Filed Mar. 30, 1920. Serial No. 370,037. Original No. 1,312,908, dated Aug. 12, 1919, Serial No. 244,236, filed July 10, 1918. 10 Claims. (Cl. 72—110.)



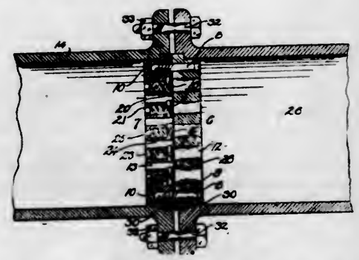
1. A reinforcing structure for concrete, comprising main frame members having recesses extending along the sides thereof, metallic connecting members for entering the side recesses of said bars and having movable portions adapted to be forced into holding engagement with the said frame members within the said recesses, and locking members for forcing the said movable portions of the said connecting members into said holding engagement in said recesses.

14,942. ELECTRICAL SWITCH. BRYSON D. HORTON, Detroit, Mich., and WILLIAM P. HAMMOND, Passaic, N. J.; said Hammond assignor to said Horton. Filed Mar. 20, 1919. Serial No. 283,931. Original No. 1,187,911, dated June 20, 1916, Serial No. 826,843, filed Mar. 24, 1914. 2 Claims. (Cl. 200—50.)



1. In combination with a housing provided with a hinged cover, a switch mechanism therein including movable and stationary coöperating contacts, means for freely operating the switch mechanism to make or break the circuit without opening the receptacle and switch actuating devices carried by the cover normally engaging the switch mechanism whereby the switch mechanism is thrown to its "off" position during the opening movement of the cover, and means for closing said switch during the closing movement of the cover.

14,943. CHECK-VALVE. HENRY O. JACKSON, Denver, Colo., assignor to The Jackson Compressor Company, Denver, Colo., a Corporation of Colorado. Filed June 1, 1920. Serial No. 385,761. Original No. 1,297,296, dated Mar. 11, 1919, Serial No. 98,296, filed May 18, 1916. 9 Claims. (Cl. 277—46.)

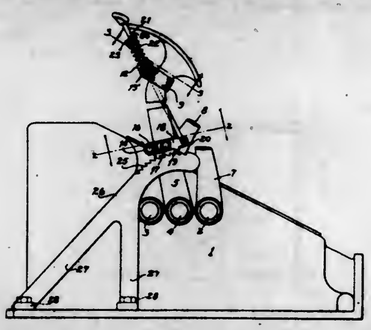


7. A check valve comprising a casing having a number of coöperating inlet and exit passages arranged in staggered relation, and relatively long, flat, thin valve pieces mounted to move bodily and substantially uniformly throughout their entire length, toward and away from the exit extremities of the inlet passages, the inner faces of the casing partitions between the exit passages having shallow recesses and ports in communication with these recesses, certain of the ports being counterbored, and spiral springs located in the counterbores of the said ports and acting on the valve pieces to move them normally into seated relation with the exit extremities of the inlet passages.

14,944. ATTACHMENT FOR LEVERS. CLARENCE H. WALKER, New York, N. Y. Filed Dec. 2, 1919. Serial No. 341,989. Original No. 1,249,260, dated Dec. 4, 1917, Serial No. 148,021, filed Feb. 12, 1917. 4 Claims. (Cl. 74—81.)

2. In combination with a spring-pressed lever provided with a foot engaging surface, locking mechanism for the lever comprising a supporting member formed for connection to the lever below said foot engaging surface, a pawl pivotally supported by said member, a ratchet with which said pawl coöperates mounted independently

of the lever, a pawl-operating element mounted on the lever and operable by the foot on said engaging surface,



and a spring applied to the pawl to normally maintain it disengaged from the ratchet.

14,945. DOOR-LATCH AND CONTROLLING DEVICE FOR COMBINED HINGE AND SLIDE DOORS. THOMAS V. PLICE, Ashland, Ohio, assignor to The Topping Manufacturing Co., Ashland, Ohio, a Corporation of Ohio. Filed July 10, 1920. Serial No. 395,386. Original No. 1,341,583, dated May 25, 1920, Serial No. 348,357, filed Dec. 30, 1919. 11 Claims. (Cl. 292—136.)



1. In a door locking mechanism, two complementary latchable frames, a horizontally positioned tongue carried by one frame, jaws on the other frame forming a socket for the tongue, and a horizontally pivoted latch member carried by said other frame for detachably engaging said tongue, said tongue operating to lift said latch upon a door closing movement.

DESIGNS.

56,215. SPOON, FORK, OR SIMILAR ARTICLE. ERNEST T. BECK, Meriden, Conn., assignor to International Silver Co., Meriden, Conn., a Corporation of New Jersey. Filed Jan. 21, 1920. Serial No. 353,089. Term of patent 7 years.



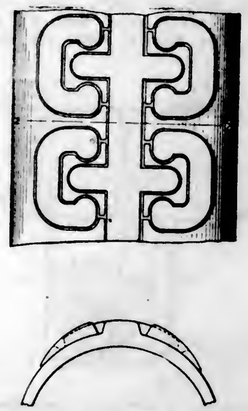
The ornamental design for a spoon, fork, or similar article, as shown.

56,216. SPOON, FORK, OR SIMILAR ARTICLE. ERNEST T. BECK, Meriden, Conn., assignor to International Silver Co., Meriden, Conn., a Corporation of New Jersey. Filed June 14, 1920. Serial No. 389,082. Term of patent 7 years.



The ornamental design for a spoon, fork, or similar article, as shown.

56,217. TIRE-TREAD. HENRY B. BIXLER, Akron, Ohio, assignor to The Chillicothe Tire and Rubber Company, Chillicothe, Ohio. Filed July 21, 1919. Serial No. 312,457. Term of patent 7 years.



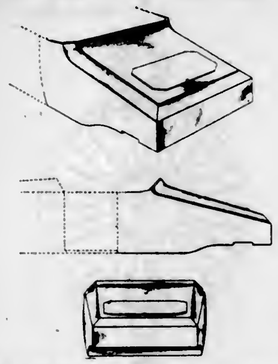
The ornamental design for a tire tread as shown.

56,218. PHONOGRAPH CASE OR CABINET. JOSEPH F. BOSSERMAN, Staunton, Va.; H. H. Bosserman administrator of said Joseph F. Bosserman, deceased. Filed Oct. 8, 1919. Serial No. 329,371. Term of patent 14 years.



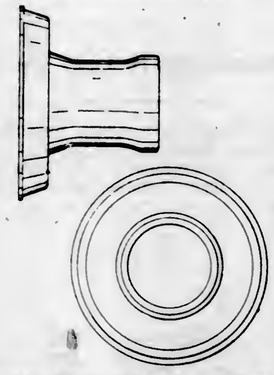
The ornamental design for a phonograph case or cabinet, as shown.

56,219. REAR-END PORTION OF AN AUTOMOBILE-BODY. FRED E. BRADFIELD, Davenport, Iowa. Filed Nov. 20, 1919. Serial No. 339,440. Term of patent 7 years.



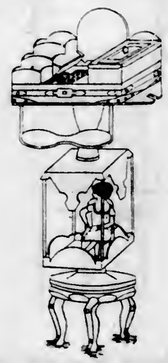
The ornamental design for a rear end portion of an automobile body, as shown.

56,220. WHEEL-HUB. THOMAS C. BURNS and FRANK K. HUFFMAN, Jackson, Mich., assignors to Hayes Wheel Company, Jackson, Mich. Filed June 19, 1920. Serial No. 390,262. Term of patent 14 years.



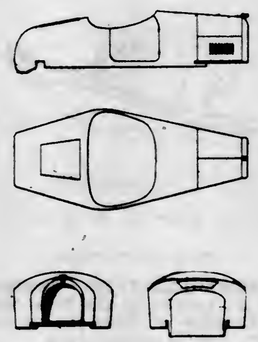
The ornamental design for a wheel hub as shown.

56,221. SMOKER'S STAND. ARTHUR CHEEKS, Birmingham, Ala. Filed June 5, 1920. Serial No. 386,817. Term of patent 14 years.



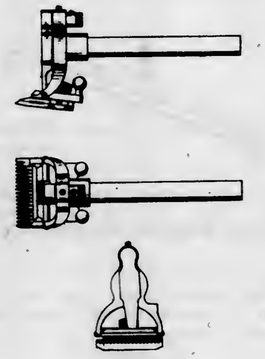
The ornamental design for a smoker's stand as shown.

56,222. AUTOMOBILE-BODY. JULIUS W. CHORDAS, Los Angeles, Calif. Filed June 17, 1919. Serial No. 304,846. Term of patent 14 years.



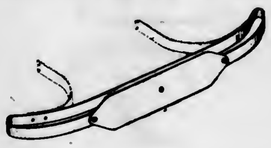
The ornamental design for an automobile body, as shown.

56,223. HAIR-CUTTING-MACHINE FRAME. SAMUEL M. COFFMAN, Kansas City, Mo., assignor to The Barbers Electric Specialty Company, a Corporation of Kansas. Filed May 17, 1918. Serial No. 235,195. Term of patent 14 years.



The ornamental design for a hair cutting machine frame, as shown.

56,224. AUTOMOBILE-BUFFER. THEODORE M. COX, Albany, N. Y., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Filed June 21, 1920. Serial No. 390,655. Term of patent 7 years.



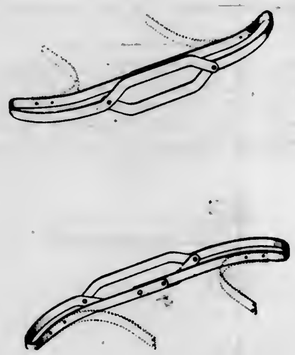
The ornamental design for an automobile buffer, as shown.

56,225. AUTOMOBILE-BUFFER. THEODORE M. COX, Albany, N. Y., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Filed June 21, 1920. Serial No. 390,656. Term of patent 7 years.



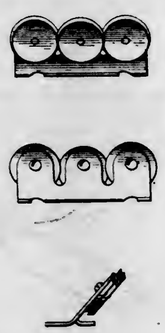
The ornamental design for an automobile buffer, as shown.

56,226. AUTOMOBILE-BUFFER. THEODORE M. COX, Albany, N. Y., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Filed June 21, 1920. Serial No. 390,657. Term of patent 7 years.



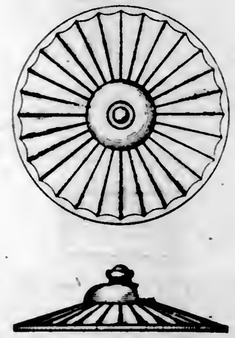
The ornamental design for an automobile buffer, as shown.

56,227. KNIFE-SHARPENER. TERENCE F. CURLEY, Brooklyn, N. Y. Filed Apr. 2, 1920. Serial No. 370,884. Term of patent 7 years.



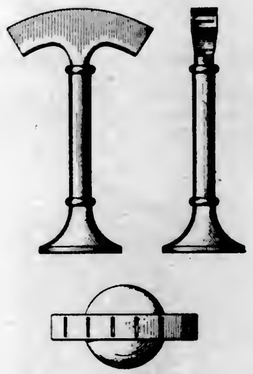
The ornamental design for a knife sharpener as shown.

56,228. GLASS COVER FOR A DISH. HOWARD S. EVANS, Pittsburgh, Pa. Filed Aug. 8, 1919. Serial No. 316,270. Term of patent 14 years.



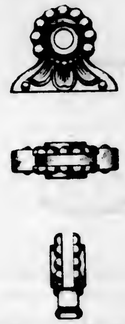
The ornamental design for a glass cover for a dish, as shown.

56,229. FRUIT-KNIFE HOLDER OR SIMILAR ARTICLE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 20, 1920. Serial No. 360,167. Term of patent 14 years.



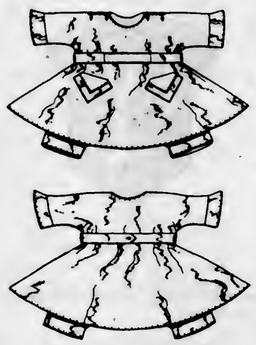
The ornamental design for a fruit knife holder or similar article, as shown.

56,230. EAR FOR A HANDLE OF BOWLS OR SIMILAR ARTICLES. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 20, 1920. Serial No. 360,168. Term of patent 7 years.



The ornamental design for an ear for a handle of bowls or similar articles, as shown.

56,231. CHILD'S ROMPER. EUGENE GILLMAN and LEAH SIEGEL, Seattle, Wash. Filed May 6, 1920. Serial No. 379,417. Term of patent 7 years.



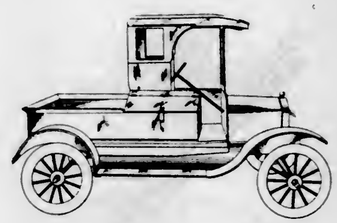
The ornamental design for a child's romper, as shown.

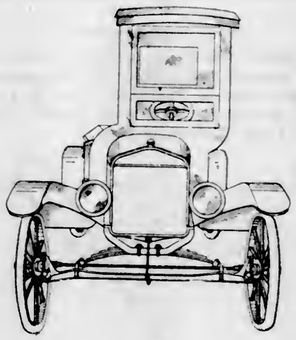
56,232. PHONOGRAPH-CABINET. SEWARD W. HECOX, Zeeland, Mich. Filed June 17, 1920. Serial No. 389,773. Term of patent 7 years.



The ornamental design for a phonograph cabinet, as shown.

56,233. INDIVIDUAL-SEAT SERVICE-CAR BODY. FREDERIC M. HOBLITT, New York, N. Y. Filed Apr. 6, 1920. Serial No. 371,777. Term of patent 14 years.





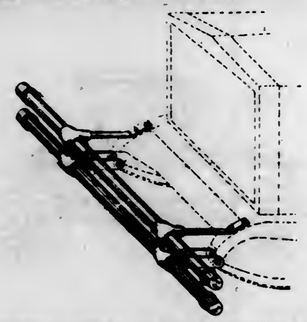
The ornamental design for an individual seat service car body, as shown.

56,234. VEHICLE-OPERATOR'S HEEL-REST. WILLIAM A. HONEYMAN, San Francisco, Calif. Filed July 19, 1919. Serial No. 312,103. Term of patent 14 years.



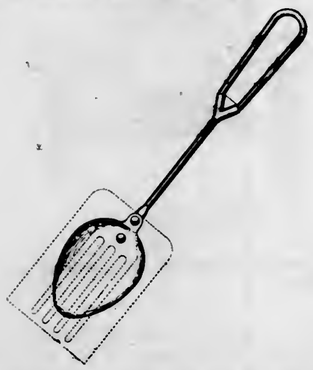
The ornamental design for a vehicle operator's heel rest, as shown.

56,235. AUTOMOBILE-BUMPER. JAMES HOWARD HURLBUT, Los Angeles, Calif. Filed June 2, 1920. Serial No. 386,071. Term of patent 14 years.



The ornamental design for an automobile bumper as shown.

56,236. SPOON, FORK, OR SIMILAR ARTICLE. EDWARD H. JOHNSON, Binghamton, N. Y., assignor to The A. & J. Manufacturing Co., Binghamton, N. Y., a Corporation of New York. Filed June 5, 1920. Serial No. 386,821. Term of patent 14 years.



The ornamental design for a spoon, fork, or similar article substantially as shown and described.

56,237. SPOON, FORK, OR SIMILAR ARTICLE. ALFRED G. KINTZ, Wallingford, Conn., assignor to International Silver Co., Meriden, Conn., a Corporation of New Jersey. Filed Jan. 7, 1920. Serial No. 350,026. Term of patent 14 years.



The ornamental design for a spoon, fork, or similar article, as shown.

56,238. COLLAR-HOLDER. FRANK J. LE CLAIR, Attleboro, Mass., assignor to Freeman-Daughaday Co., Chartley, Mass., a Corporation of Massachusetts. Filed June 23, 1920. Serial No. 391,228. Term of patent 14 years.



The ornamental design for a collar holder, as shown.

56,239. EMBLEMATIC ARTICLE OF MANUFACTURE. DAVID ROSENBACH, Chicago, Ill., assignor to Illinois Automobile Club, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1920. Serial No. 362,559. Term of patent 14 years.



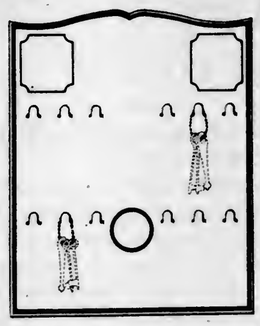
The ornamental design for an emblematic article of manufacture as shown.

56,240. EMBROIDERED LACE. HENRY SCHWARBER, Weehawken, N. J., assignor to The Inflexible Co., West New York, N. J. Filed June 14, 1920. Serial No. 389,036. Term of patent 3½ years.



The ornamental design for embroidered lace substantially as shown.

56,241. DISPLAY-STAND. HARRY SOREF, Milwaukee, Wis. Filed June 23, 1920. Serial No. 391,226. Term of patent 7 years.



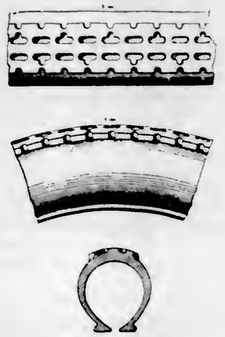
The ornamental design for a display stand, as shown.

56,242. AUXILIARY DESK-TOP. GEORGE E. STIMPSON, Worcester, Mass. Filed Feb. 21, 1919. Serial No. 278,547. Term of patent 7 years.



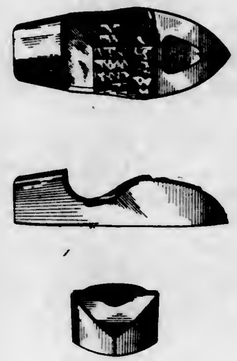
The ornamental design for an auxiliary desk top as shown.

56,243. TIRE-TREAD. HERBERT H. SWAN, Grand Rapids, Mich. Filed Mar. 11, 1920. Serial No. 365,076. Term of patent 14 years.



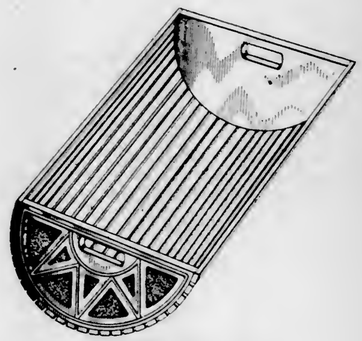
The ornamental design for a tire tread substantially as shown.

56,244. AUTOMOBILE-BODY. CLEMENS A. TIMPTE and TONY C. TIMPTE, Denver, Colo. Filed July 6, 1920. Serial No. 394,366. Term of patent 7 years.



The ornamental design for an automobile-body, as shown.

56,245. BASKET. WOJCIECH WEGIEL, Ludlow, Mass. Filed May 20, 1920. Serial No. 382,987. Term of patent 7 years.



The ornamental design for a basket, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 31, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 99,144. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELLEN BAILEY, Poughkeepsie, N. Y. Filed Nov. 7, 1916.



Consisting of a picture of Gladys Porter.

Particular description of goods.—A Preparation for the Treatment of Fevers.

Claims use since Jan. 1, 1916.

Ser. No. 101,149. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LONGMONT FARMERS MILLING & ELEVATOR CO., Longmont, Colo. Filed Feb. 3, 1917.

Pride of America

Particular description of goods.—Wheat-Flour.

Claims use since Feb. 28, 1916.

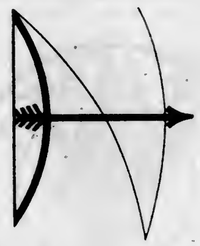
Ser. No. 101,759. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STAR PEA HULLER COMPANY, Chattanooga, Tenn. Filed Feb. 27, 1917.



Particular description of goods.—Internal-Explosive Engines and Baling-Presses.

Claims use since June, 1895.

Ser. No. 104,037. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BOWDEN WIRE LTD., London, England. Filed May 24, 1917.



Consisting of the letter "N," combined with a bow and arrow.

Particular description of goods.—Component Parts, Attachments, and Accessories for Velocipedes, Motorcycles, Automobiles, and other Road-Vehicles—Namely, Control-Levers, Brake-Clutch and Valve-Lifting Levers, Foot-Levers, Clutch or Gear Control Levers, Combined Control-Levers, Vehicle-Brakes, Fork-Clip for Front Brakes, Back Brakes, Bent-Rim Brakes, Band-Brakes, Band-Brakes for Side Cars, Twist Handle, Handle-Bar Control for Pulleys,

Handle-Bar Clutch Control for Hub-Gears, Adjustable Couplings, Carbureter Controls, Gas-Throttles, Frame-Clips, Thimbles, Nipples, Double-Ended Adjustable Stops, Shackles, Caps for Ends of Outer Wire, Springs, Telescopic Tubes, Compensating Tubes, and Detachable Clips and Fixings for Levers.

Claims use since November, 1916.

Ser. No. 108,603. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) YORKSHIRE STEEL CO. LD., London, England. Filed Jan. 23, 1918.

APIS

Particular description of goods.—Scissors; Table-Knives and Table-Forks of Base Metal, Razors, Pocket-Knives, and Shears.

Claims use since March, 1916.

Ser. No. 110,188. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILSON REMOVER COMPANY, Newark, N. J. Filed Apr. 13, 1918.

PRESERVITT

Consisting of the word "Preservitt," no claim being made to the words "Preserve It."

Particular description of goods.—Rust-Preventive Compound of a Chemical Nature.

Claims use since on or about Mar. 26, 1918.

Ser. No. 110,394. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEATRICE S. FIELDS, New York, N. Y. Filed Apr. 23, 1918.

SCALP-O-LENE

Particular description of goods.—Hair-Tonics.

Claims use since on or about Feb. 1, 1917.

Ser. No. 110,540. CLASS 38. PRINTS AND PUBLICATIONS.) JOSEPH A. MACDONELL, Brooklyn, N. Y., assignor to McClure-Fenlon Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 29, 1918.



With triangular dots within the arcs of the circles. No Claim is made to the word "Book," which forms no part of the trade-mark.

Particular description of goods.—Directories to be Issued Yearly.

Claims use since Apr. 2, 1918.

Ser. No. 110,870. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAXIM NIVEN, Chicago, Ill. Filed May 13, 1918.

Château

Particular description of goods.—Alteratives, Antineuralgics, Antirheumatics, Cathartics, Digestives, Diuretics, Expectorants, Hematinics, Laxatives, Nervines, Medicinal Nutrients, Restoratives, Sedatives, Hepatic Stimulants.

Claims use since Mar. 1, 1918.

Ser. No. 111,678. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SANO MILLING AND MANUFACTURING CO., Belleville, Ill. Filed June 19, 1918.



No claim is made to the word "Flour" apart from the combination shown. The field of the diamond design of the trade-mark is colored red, as indicated by the drawing and the specimens filed.

Particular description of goods.—Wheat-Flour.

Claims use since Oct. 30, 1917.

Ser. No. 112,515. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EARLE C. ANTHONY, INC., Los Angeles, Calif. Filed Aug. 5, 1918.

WAXIT

Particular description of goods.—A Cleanser Used to Thoroughly Clean and Remove Spots, Stains, Marks, Chalks, Scratches, &c., from Automobile-Bodies, Varnished Floors, and the Like and to Prepare the Same for Polishing.

Claims use since May 1, 1918.

Ser. No. 113,031. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEROFSKY BROTHERS, INC., New York, N. Y. Filed Sept. 5, 1918.



Particular description of goods.—Small Pieces of Rags or Clippings from Textiles to Be Used in the Manufacture of Paper, Shredded Waste, and Shoddy Waste.

Claims use since Mar. 1, 1918.

Ser. No. 114,489. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa. Filed Dec. 4, 1918. Under ten-year proviso.

S.S.WHITE

Particular description of goods.—Dental Engines, Lathes, and Parts Thereof, Dental Handpieces, Dental Mallets and Hammers; Dental Burs, Drills; Dental Bur-Cases, Dental Extractors, Dental Mandrels and Porte-Polishers; Dental Root Trimmers, Reamers, and Facers; Dental Abrasive Points, Disks, Stones; Dental Polishing Cups, Disks, Points, Brushes, Wheels, Strips; Dental Burnishers, Dental Post-Extractors, Dental Saws, Dental Disk-Moisteners, Dental Forceps, Dental Pliers and Punches, Dental Root-Elevators, Dental Lancets; Dental Scissors, Shears, Tweezers, and Tongs; Dental Crown-Slitters, Dental Chairs, Dental Headrests, Dental Equipment-Stands; Dental Spittoon and Spittoon-Stands, Saliva-Ejectors; Dental Operating-Stools; Dental Brackets, Bracket-Tables, Tablets, and Trays; Electric Furnaces, Dental Vulcanizers and Thermometers Therefor, Dental Flasks and Flask-Press; Gas-Administering Apparatus, Inhalers and Tubes Therefor; Gas-Cylinders Adapted for Use in Connection with Gas-Administering Apparatus, Handles and Holders for Dental Tools; Dental Scalers, Cleavers, Chisels, Hatchets, Hoes, Spoons, Discoids, Cleoids, Cutting and Carving Instruments, Excavators, Bits, Canal-Cleaners, Broaches, Bristles, and Probes; Dental Pluggers, Dental Filling Materials and Instruments, Gum-Retractors, Dental Root-Driers, Dental Pellet-Placers, Dental Files and Knives, Dental Matrix Material and Implements, Dentimeters, Dental Sterilizers, Dental Lamps, Dental Burners and Dental Blowpipes, Dental Spatulas, Dental Mirrors, Dental Syringes, Dental Mortars and Pestles; Dental Rubber Dam, Rubber-Dam Clamps, Rubber-Dam Holders, and Rubber-Dam Weights; Dental Napkin-Holders, Dental Floss, Dental Cotton and Waste Holders, Teeth Separating and Regulating Appliances, Mouth-Distenders; Dental Gold Plates, Disks, and Shells; Dental Crown-Forming Devices, Dental Waxes, Dental Casting Outfits, Fusible Metal for Dental Practice, Dental Investment Compound, Dental Impression-Trays, Dental Modeling Composition; Dental Vulcanite Scrapers, Trimmers, and Finishers; Dental Bench-Blocks; Artificial Teeth, Facings, Crowns, and Posts; Tooth-Shade Guides, Dental Jaw and Mouth Props, and Dental Instrument Cases, Racks, and Cabinets.

Claims use since 1869.

Ser. No. 115,160. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. S. QUINBY COMPANY, Boston, Mass. Filed Jan. 13, 1919.

LA TOURAINE

Particular description of goods.—Canned Fruits, Condensed Milk; Dry, Ground, and Prepared Mustard; Tomato Catsup, Olive-Oil, Salad-Dressing, Vinegar, Table-Syrups, Flavoring Extracts for Food-Flavoring Purposes, Spices, Breakfast Cereals.

Claims use since about May, 1899.

Ser. No. 116,585. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE A. I. ROOT CO., Medina, Ohio. Filed Mar. 14, 1919.

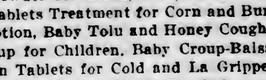
Cream of Honey

No claim is made to the word "Honey" apart from the other features of the trade-mark.

Particular description of goods.—Comb and Extracted Honey.

Claims use since Apr. 6, 1918.

Ser. No. 116,678. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) COUCH BROS. MANUFACTURING CO., East Point, Ga.; Memphis, Tenn., and Waterloo, Iowa. Filed Mar. 18, 1919.



Particular description of goods.—Tarpaulins, Tents, and Canvas Covers.

Claims use since August, 1917.

Ser. No. 117,495. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NEWTON D. LOGAN, Boston, Mass. Filed Apr. 15, 1919.

TRI-HI-GLO

Particular description of goods.—A Cream Preparation for Cleansing and Polishing Furniture, Woodwork, and other Painted, Varnished, Enameled, and Similarly-Treated Surfaces.

Claims use since Mar. 10, 1919.

Ser. No. 117,747. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX ROBINS, Chicago, Ill. Filed Apr. 22, 1919.



Particular description of goods.—Eye-Water Used for Inflamed Eyes, Nasal-Jelly Treatment for the Relief of Catarrh and Cold in Head, Larkspur Lotion for External Uses for the Destruction of Lice or other Vermin, Eucalyptus and Honey Cough-Syrup, White Pine and Tar Cough-Syrup, Wild-Cherry and Tar Cough-Syrup; Foot Comfort Powder for Tired, Sore, and Aching Feet; Foot-Comfort-Tablets Treatment for Corn and Bunion Callouses, Eczema-Lotion, Baby Tolu and Honey Cough-Balsam, Baby Worm-Syrup for Children, Baby Croup-Balsam, and Laxative Quinin Tablets for Cold and La Grippe.

Claims use since Jan. 10, A. D. 1919.

Ser. No. 118,307. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GRATON & KNIGHT MANUFACTURING COMPANY, Worcester, Mass. Filed May 9, 1919.

SPARTAN

Particular description of goods.—Leather Belting.
Claims use since the year 1907.

Ser. No. 118,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HANSEN PACKING COMPANY, Butte, Mont. Filed May 26, 1919.

SILVER BOW BRAND

No claim being made to the word "Brand."
Particular description of goods.—Hams, Bacon, Rolled Shoulders, and Lard.
Claims use since Feb. 2, 1919.

Ser. No. 119,279. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LEONA A. SANDERS, New York, N. Y. Filed June 6, 1919.

LEONOIL

Particular description of goods.—A Liquid Compound for Polishing Painted or Enameled Surfaces.
Claims use since about September, 1912.

Ser. No. 119,328. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BAKE-RITE OVEN MFG. COMPANY, Reno, Nev., and San Francisco, Calif. Filed June 9, 1919.

BAKE-RITE

Particular description of goods.—Completely-Assembled Baking Plants Containing Dough-Mixing Apparatus, Dough-Proofing Apparatus, Baking-Ovens, Racks for Baked Goods, and Sales-Counters.
Claims use since May 27, 1918.

Ser. No. 119,329. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BAKE-RITE OVEN MFG. COMPANY, Reno, Nev., and San Francisco, Calif. Filed June 9, 1919.

BAKE-RITE

Particular description of goods.—Gas-Fired Ovens, Oil-Fired Ovens, Coal-Fired Ovens, and Wood-Fired Ovens; Gas-Fired Stoves, Oil-Fired Stoves, Coal-Fired Stoves, and Wood-Fired Stoves; Gas-Fired Ranges, Oil-Fired Ranges, Coal-Fired Ranges, and Wood-Fired Ranges; Gas-Fired Boilers, Oil-Fired Boilers, Coal-Fired Boilers, and Wood-Fired Boilers; Gas Water-Heaters, Oil Water-Heaters, Gas-Burners, Oil-Burners, Thermostatically-Controlled Oil-Burner Units, and Thermostatically-Controlled Gas-Burner Units.
Claims use since May 27, 1918.

Ser. No. 119,383. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BEACH SOAP COMPANY, Lawrence, Mass. Filed June 10, 1919.

Sopo-flake

No exclusive right to the term "Flakes" is claimed apart from the mark shown on the drawing.
Particular description of goods.—Laundry Soap.
Claims use since Nov. 29, 1918.

Ser. No. 119,775. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROYAL SPECIALTY CO., New York, N. Y. Filed June 19, 1919.

ROYAL BRAND
BOUILLON KUBES

"Brand," "Bouillon Kubes," "Trade-Mark," and "Royal Specialty Co." being disclaimed essential parts of the trade-mark except in the particular form and relation shown in the drawing.
Particular description of goods.—Bouillon-Tablets.
Claims use since May 28, 1919.

Ser. No. 119,895. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN KENYON & CO. (SHEFFIELD,) LIMITED, Millsands, Sheffield, England. Filed June 24, 1919. Under ten-year proviso.

MIDDLEWOOD
SHEFFIELD

Particular description of goods.—Milling-Cutters, Twist-Drills, Machine-Knives, Shear-Blades, Paper-Knives; Machine-Saws—Namely, Circular Saws, Vertical Saws, Pit-Saws; Hay-Knives, Chaff-Knives; Edge-Tools—Namely, Files, Handsaws, Chisels, Shears, Axes, Adzes, Plane-Irons, Gouges; Hammers, Hoes, Spades, Shovels, Picks, Spanners, Vises, Screw-Drivers, and Pliers.
Claims use since the year 1720.

Ser. No. 119,898. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN KENYON & Co. (SHEFFIELD,) LIMITED, Millsands, Sheffield, England. Filed June 24, 1919. Under ten-year proviso.

COWLEY
SHEFFIELD

Particular description of goods.—Milling-Cutters, Twist-Drills, Machine-Knives, Shear-Blades, Paper-Knives; Machine-Saws—Namely, Vertical Saws, Circular Saws, Pit-Saws; Reaping-Machines, Plows, Hay-Knives, Chaff-Cutters, Mowing-Machines and Parts Thereof; Table, Pen, and Pocket Knives; Razors, Scissors; Edge-Tools—Namely, Files, Handsaws, Chisels, Gouges, Axes, Adzes, Plane-Irons, Shears; Hammers, Hoes, Spades, Shovels, Picks, Spanners, Vises, Screw-Drivers, and Pliers.
Claims use since the year 1870.

Ser. No. 119,902. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN KENYON & Co. (SHEFFIELD,) LIMITED, Millsands, Sheffield, England. Filed June 24, 1919. Under ten-year proviso.

FULTON
SHEFFIELD

Particular description of goods.—Milling-Cutters, Twist-Drills, Machine-Knives, Shear-Blades, Paper-Knives; Machine-Saws—Namely, Vertical Saws, Circular Saws, Pit-Saws; Reaping-Machines, Plows, Hay-Knives, Chaff-Cutters, Mowing-Machines and Parts Thereof; Table, Pen, and Pocket Knives; Razors, Scissors; Edge-Tools—Namely, Files, Handsaws, Chisels, Gouges, Axes, Adzes, Plane-Irons, Shears; Hammers, Hoes, Spades, Shovels, Picks, Spanners, Vises, Screw-Drivers, and Pliers.
Claims use since the year 1870.

Ser. No. 119,904. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN KENYON & Co. (SHEFFIELD,) LIMITED, Millsands, Sheffield, England. Filed June 24, 1919. Under ten-year proviso.

HK KENYON
SHEFFIELD

Particular description of goods.—Milling-Cutters, Twist-Drills, Machine-Knives, Shear-Blades, Paper-Knives; Machine-Saws—Namely, Circular Saws, Vertical Saws, Pit-Saws; Hay-Knives, Chaff-Knives; Edge-Tools—Namely, Files, Handsaws, Chisels, Shears, Axes, Adzes, Plane-Irons, Gouges; Hammers, Hoes, Spades, Shovels, Picks, Spanners, Vises, Screw-Drivers, and Pliers.
Claims use since the year 1870.

Ser. No. 119,998. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHAMBERLAIN-HABER CHEMICAL CO., Cleveland, Ohio. Filed June 27, 1919.

Puritox

Particular description of goods.—Insecticidal, Germicidal, and Air-Purifying Preparations.
Claims use since May 27, 1919.

Ser. No. 120,349. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEGGETT & BROTHER, INC., New York, N. Y. Filed July 8, 1919. Under ten-year proviso.

MAGIC

Particular description of goods.—Insecticides.
Claims use since the year 1888.

Ser. No. 120,480. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOLD STAR MAYONNAISE CO., Bayonne, N. J. Filed July 12, 1919.

GOLD STAR
MAYONNAISE.
CONTAINS VINEGAR, OLIVE OIL, EGGS, SPICES.
NET WEIGHT 8 OZ
CAN BE MIXED WITH LEMON JUICE OR CREAM
GOLD STAR MAYONNAISE CO.
BAYONNE, NEW JERSEY.
KEEP COOL. DO NOT FREEZE.

The exclusive use of the words "Trade-Mark Reg. U. S. Pat. Off.," "Mayonnaise," "Contains Vinegar, Olive Oil, Eggs, Spices," "Net Weight 8 Oz.," "Can be Mixed with Lemon Juice or Cream," "Gold Star Mayonnaise Co.," "Bayonne, New Jersey," "Keep Cool," and "Do Not Freeze" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Mayonnaise Dressing.
Claims use since June 20, 1919.

Ser. No. 120,544. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HELEN LYNCH, Chicago, Ill. Filed July 14, 1919.

Stazon

Particular description of goods.—Face-Powder.
Claims use since Mar. 1, 1919.

Ser. No. 120,785. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ED. L. BIESENBACH & Co., San Antonio, Tex. Filed July 21, 1919.



Particular description of goods.—Cough-Drops.
Claims use since August, 1906.

Ser. No. 120,822. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) E-JAY-R-MFG. Co., Baltimore, Md. Filed July 23, 1919.

TisA Ye

No claim being made for the words "A Dye" apart from the mark shown in the drawing.
Particular description of goods.—A Dye Preparation for Coloring Shoes or the Like.
Claims use since Jan. 1, 1914.

Ser. No. 120,921. (CLASS 38. PRINTS AND PUBLICATIONS.) THE LABOR AMERICAN PUBLISHING COMPANY, Indianapolis, Ind. Filed July 25, 1919.

THE LABOR AMERICAN

The lining appearing on the drawing is for shading purposes only and not intended to indicate color.
Particular description of goods.—A Monthly Periodical.
Claims use since July 1, 1919.

Ser. No. 121,034. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) X-ZEMA REMEDY Co., Haskell, Okla. Filed July 28, 1919.

X
Zema

No claim is made to the word "Eczema."
Particular description of goods.—A Remedy for Eczema, Poison-Ivy, Barbers' Itch, Dandruff, and Other Skin Diseases.
Claims use since June 15, 1919.

Ser. No. 121,223. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VENTOURA & BEGANI, New York, N. Y. Filed Aug. 2, 1919.

LA VIVA ITALIA



Particular description of goods.—Salad-Oils with a Cotton-Seed Blend.
Claims use since Dec. 15, 1918.

Ser. No. 121,333. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) C. L. BEST GAS TRACTION COMPANY, San Leandro, Calif. Filed Aug. 7, 1919.

TRACKLAYER

No claim being made herein to the word "Tracklayer" apart from the mark illustrated.
Particular description of goods.—Machinery and Tools and Parts Thereof.
Claims use since 1912.

Ser. No. 121,746. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH P. CANAVERI, Port Arthur, Tex. Filed Aug. 18, 1919.



Particular description of goods.—A Preparation for the Treatment of Eczema of All Kinds, Sores, Itch of Any Kind, Cuts, Stings, Bites, Scalds, and Dandruff, and for All Skin Irritations.
Claims use since Jan. 1, 1919.

Ser. No. 121,806. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HORROCKSES, CREWDSON & COMPANY, LIMITED, Manchester, England. Filed Aug. 19, 1919.



Particular description of goods.—Cotton Piece Goods.
Claims use since Oct. 17, 1882.

Ser. No. 121,898. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) IMPERIAL BELTING COMPANY, Chicago, Ill. Filed Aug. 22, 1919.

KARLITE

Particular description of goods.—Rubber Belting, Duck Belting, Rubber Hose, Duck Hose, Rubber Machinery Packing, Flax Machinery Packing, Asbestos Machinery Packing, and Elevator, Conveyer, and Transmission Belting of Rubber, Cotton, Silk, Flax, Fabrics, Fiber, Leather, Metal, Composition, Balata, or any Combination of These Materials.
Claims use since Apr. 13, 1915.

Ser. No. 121,899. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) IMPERIAL BELTING COMPANY, Chicago, Ill. Filed Aug. 22, 1919.

ANTISULPHO

Particular description of goods.—Rubber Belting, Duck Belting, Rubber Hose, Duck Hose, Rubber Machinery Packing, Flax Machinery Packing, Asbestos Machinery Packing, and Elevator, Conveyer, and Transmission Belting of Rubber, Cotton, Silk, Flax, Fabrics, Fiber, Leather, Metal, Composition, Balata, or Any Combination of These Materials.
Claims use since Mar. 9, 1912.

Ser. No. 121,901. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) IMPERIAL BELTING COMPANY, Chicago, Ill. Filed Aug. 22, 1919.

SAHARA

Particular description of goods.—Rubber Belting, Duck Belting, Rubber Hose, Duck Hose, Rubber Machinery Packing, Flax Machinery Packing, Asbestos Machinery Packing, and Elevator, Conveyer, and Transmission Belting of Rubber, Cotton, Silk, Flax, Fabrics, Fiber, Leather, Metal, Composition, Balata, or Any Combination of These Materials.
Claims use since Oct. 20, 1910.

Ser. No. 122,116. (CLASS 37. PAPER AND STATIONERY.) ALBERT W. ENGEL, Chicago, Ill. Filed Aug. 29, 1919.

"Art Corners"

Consisting of the words "Art Corners" in the rude, irregular, or inexact style of lettering shown in the drawing, inclosed in an oblong approximately-rectangular border of similarly rude and inexact lines, as shown.
Particular description of goods.—Picture or Sheet Mounting Devices.
Claims use since June, 1915.

Ser. No. 122,559. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) SOUTHERN SALES CORPORATION, New York, N. Y. Filed Sept. 10, 1919.

SOSALCO

Particular description of goods.—Belting and Packing Made of Leather.
Claims use since Jan. 28, 1919.

Ser. No. 122,582. (CLASS 48. THREAD AND YARN.) BELDING BROS. & Co., New York, N. Y. Filed Sept. 12, 1919.

EAGLE

Particular description of goods.—Silk Thread.
Claims use since Jan. 1, 1883.

Ser. No. 122,962. (CLASS 37. PAPER AND STATIONERY.) BESSIRE & COMPANY, Indianapolis, Ind., and Louisville, Ky. Filed Sept. 22, 1919.

BESCO

Particular description of goods.—Paper Napkins, Paper Doilies, Cake-Laces, and Paper Circles.
Claims use since Mar. 21, 1913.

Ser. No. 122,979. (CLASS 2. RECEPTACLES.) ESCANABA MANUFACTURING COMPANY, Escanaba, Mich. Filed Sept. 22, 1919.

EMCO

Particular description of goods.—Wood and Paper Dishes.
Claims use in the business since 1910.

Ser. No. 123,181. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) STAPLES & SEEFELD, Milwaukee, Wis. Filed Sept. 26, 1919.

LOKTITE

Particular description of goods.—Attaching Members for Vehicle Non-Skid Tread Members.
Claims use since Aug. 21, 1919.

Ser. No. 123,277. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CRESCENT CITY DYE SALES CO. INC., New York, N. Y. Filed Sept. 30, 1919.



We hereby disclaim the words "Dye Soap Powder" and "For Laundry and Home Use" and the word "FIX."

Particular description of goods.—Dyes Manufactured in Soap Form.

Claims use since May 1, 1919.

Ser. No. 123,312. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DE NORDISKE FABRIKER, DE-NO-F. A., Christiania, Norway. Filed Oct. 1, 1919.

DE-NO-FA

Particular description of goods.—Refined and Unrefined Fats Produced by the Hydrogenation of Vegetable and Animal Oils and Fats Used as Paint and Varnish Vehicles and Driers.

Claims use since September, 1912.

Ser. No. 123,453. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MANUEL PEDROL SOLÉ, Tarragona, Spain. Filed Oct. 4, 1919.

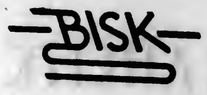


I disclaim the words "This Oil is Guaranteed to be Manufactured from Finest Quality Olives Only, Pure Olive Oil, Pedrol, Tarragona, Spain."

Particular description of goods.—Alimentary Oils.

Claims use since August, 1916.

Ser. No. 123,836. (CLASS 32. FURNITURE AND UPHOLSTERY.) BISK CORPORATION, Brockton, Mass. Filed Oct. 16, 1919.



Particular description of goods.—Steel Kitchen-Cabinets; Steel Cabinets (or Steel Kitchens) Adapted to be Fitted in a Space Left in the Wall of a Room and Hidden from View When Not in Use by Ornamental Doors and Adapted to Contain Bins, Shelves, a Stove, a Refrigerator, and a Sink; Steel Cupboards for Storage, Steel Closets for Storage, Steel Lockers, Steel Shelving, Steel Kitchen-Tables, Steel Hospital Bedside-Tables, Steel Office-Tables, Steel Hospital Bowl-Stands, Steel Medicine-Cabinets, Steel Flat-Top Office-Desks, Steel Hospital-Chairs, Not Including Surgical Chairs, and Steel Surgeons' Instrument-Cabinets.

Claims use since August, 1918.

Ser. No. 124,157. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE WIETHLIN-MANN CO., Cincinnati, Ohio. Filed Oct. 24, 1919.



Consists of the word "Polar" and the representation of the head of a polar bear, taken or used together, as shown in the labels and drawing. Without waiving any common-law right, applicant disclaims for the purposes of registration the word "Waterproof" apart from the mark as shown, and also the catch-phrase "A Bear for Wear."

Particular description of goods.—Leather Belting.

Claims use since Aug. 1, 1919.

Ser. No. 124,267. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GINTER COMPANY, Boston, Mass. Filed Oct. 28, 1919.



Particular description of goods.—Candy, Crackers, Biscuits, Tea, Coffee, Cocoa, Chocolate, Canned Fruits, Canned Vegetables, Canned Soups, Canned Fish, Canned Milk, Macaroni, Dried Fruits and Peels, Yeast, Shortening, Peanut-Butter, Corn-Starch, Rice, Tapioca; Wheat, Rye, and Corn Flour; Oat, Rye, and Corn Meal; Barley, Cereals, Dried Beans, Jellies, Jams, Marmalade, Gelatin, Puddings, Preserves, Marshmallow, Cocoanut, Mince-Meat, Spices, Extracts for Food-Flavoring Purposes, Maple-Syrup, Corn-Syrup, Blended Maple and Corn Syrup, Molasses, Honey, Vinegar, Olives, Salad-Oil, Salad-Dressing, Olive-Oil, Pickles, Catsup, and Chilli Sauce.

Claims use since October, 1911.

Ser. No. 124,530. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEORGE NIKOLOW, New York, N. Y., assignor to Robert C. Hull, New York, N. Y. Filed Nov. 4, 1919.



Particular description of goods.—Artificial or Prepared Fuel to be Used Like Coal, but Not Containing Coal.

Claims use since Oct. 21, 1919.

Ser. No. 125,218. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES BEACH & SONS, Dubuque, Iowa. Filed Nov. 24, 1919.

WONDER SUDS

Particular description of goods.—Soap and Soap Preparations.

Claims use since Aug. 1, 1917.

Ser. No. 125,268. (CLASS 39. CLOTHING.) WILLIAM B. WEBB, New York, N. Y. Filed Nov. 24, 1919.



Particular description of goods.—Hosiery.

Claims use since about 1906.

Ser. No. 125,537. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. L. HAEUSSERMANN, Philadelphia, Pa. Filed Dec. 3, 1919.



Particular description of goods.—Stomach-Tonic and Blood-Purifier.

Claims use since Nov. 14, 1919.

Ser. No. 125,565. (CLASS 17. TOBACCO PRODUCTS.) THE BARKMAHN COMPANY, INC., New York, N. Y. Filed Dec. 4, 1919.



No claim is herein made to the words "Smoking Mixture Never Bites" apart from the mark shown in the drawing.

Particular description of goods.—Smoking-Tobacco and Cigarettes.

Claims use since July 9, 1912.

Ser. No. 125,772. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CLEVELAND TWIST DRILL CO., Cleveland, Ohio. Filed Dec. 10, 1919. Under ten-year proviso.



Particular description of goods.—Boring Drills and Bits of All Kinds and Reamers.

Claims use since Sept. 15, 1893.

Ser. No. 126,307. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DUNDAS FOOD PRODUCTS CORPORATION, Philadelphia, Pa. Filed Dec. 22, 1919.



No claim being made to the word "Bona" apart from the mark shown.

Particular description of goods.—Macaroni.

Claims use since Sept. 1, 1919.

Ser. No. 126,308. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DUNDAS FOOD PRODUCTS CORPORATION, Philadelphia, Pa. Filed Dec. 22, 1919.



The word "Bona" being disclaimed apart from the mark shown.

Particular description of goods.—Wheat-Flour and Macaroni.

Claims use since Sept. 1, 1919.

Ser. No. 126,334½. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. T. CHEMICAL CO., Kansas City, Mo. Filed Dec. 22, 1919.

REGENO TONE

Particular description of goods.—A Medicine Intended for Use as a General Tonic, a Mild Laxative, and a Blood-Alterative and for the Treatment of Nervousness.
Claims use since May 24, 1918.

Ser. No. 126,376. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRAPE OLA PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 23, 1919.

Grape Ola
CONCENTRATE

The word "Concentrate" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Flavoring Material in the Nature of Fruit Syrup for Foods.
Claims use since Aug. 1, 1912.

Ser. No. 126,910. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Jan. 7, 1920.

LANASOL

Particular description of goods.—Coal-Tar Colors.
Claims use since Sept. 30, 1918.

Ser. No. 126,973. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY THAYER & CO., INC., Cambridge, Mass. Filed Jan. 9, 1920.

CUTEX

The word "Cutex."
Particular description of goods.—Dental Cream, Nerve and Bone Pain Liniment, Antiseptic Foot-Bath Tablets, Laxative Cold-Tablets, Antiseptic Liquid Court-Plaster, Toothache-Gum, Cold-Sore Remedy, Wart and Corn Remover.
Claims use since Apr. 14, 1919.

Ser. No. 127,044. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DELANO COMPANY INC., Syracuse, N. Y. Filed Jan. 12, 1920.

LANOLATED



IODINE

No claim is herein made to the exclusive use of the words "Lanolated Iodine" apart from the mark shown in the drawing.
Particular description of goods.—An Antiseptic for Treatment of Bruises, Cuts, and Injuries, Sore Throat, Swollen Glands, Tonsillitis, Chilblains, and Eczema.
Claims use since Nov. 1, 1918.

Ser. No. 127,423. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD W. BURKE, Lynn, Mass. Filed Jan. 21, 1920.

Creme Vegatol

No claim is made for the word "Creme" apart from the word "Vegatol."
Particular description of goods.—Shaving-Cream to be Used After Shaving.
Claims use since Jan. 1, 1920.

Ser. No. 127,474. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MORRIS GOLDMAN, St. Louis, Mo. Filed Jan. 22, 1920.

Sidonia

Particular description of goods.—Phonographs.
Claims use since on or about Jan. 3, 1920.

Ser. No. 127,489. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JOHN C. SCHMIDT, St. Louis, Mo. Filed Jan. 22, 1920.

"STRA-TEDGE"

No claim being made to the use of the words "Straight Edge."
Particular description of goods.—Metal Adjustment-Fixtures for Curtain-Stretchers and Curtain-Stretcher Pins.
Claims use since about the 1st of April, 1918.

Ser. No. 127,600½. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CHARLES M. LASH, Columbus, Ohio. Filed Jan. 27, 1920.

GREEN CROSS RELINER

No claim is made for the word "Reliner" apart from the mark shown on the drawing.
Particular description of goods.—Reliners.
Claims use since on or about June 1, 1917.

Ser. No. 127,609. (CLASS 38. PRINTS AND PUBLICATIONS.) A. STEIN & COMPANY, Chicago, Ill. Filed Jan. 26, 1920.

Steinews

Particular description of goods.—Monthly Bulletin.
Claims use since about Jan. 1, 1920.

Ser. No. 127,665. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SUNSET PAINT COMPANY, Los Angeles, Calif. Filed Jan. 27, 1920.

Sun-Glo

Particular description of goods.—House-Paint, Floor-Finish in the Nature of a Varnish, Wall-Paint Reducer, Color-Varnish.
Claims use since June, 1918.

Ser. No. 127,925. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) L. & L. AUTOMOBILE ACCESSORIES CORP., Hartford, Conn. Filed Feb. 3, 1920.

L&L

No claim being made to the representation of the goods or to the numeral "1" and the words "Piece" and "Slip On Transmission Lining for Fords."
Particular description of goods.—Brake-Bands and Transmission-Lining.
Claims use since Aug. 25, 1919.

Ser. No. 128,071. (CLASS 37. PAPER AND STATIONERY.) EDWARD O. BAKER, Shanghai, China. Filed Feb. 7, 1920.

Aero—Fount

Particular description of goods.—Fountain-Pens.
Claims use since prior to Dec. 16, 1919.

Ser. No. 128,268. (CLASS 37. PAPER AND STATIONERY.) GUTHRIE & COMPANY LIMITED, Singapore, Straits Settlements, and London, England. Filed Feb. 11, 1920.



Particular description of goods.—Foolscap-Paper.
Claims use since the year 1895.

Ser. No. 128,289. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN-NATIONAL SHOE AND LEATHER CORP., New York, N. Y. Filed Feb. 12, 1920.

AMICUS

The word "Amicus."
Particular description of goods.—Hides and Leather.
Claims use since Jan. 9, 1920.

Ser. No. 128,307. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALTER KIDDE & COMPANY, INCORPORATED, New York, N. Y. Filed Feb. 12, 1920.

The RICH System

The word "System" appearing in the mark is hereby disclaimed.
Particular description of goods.—Marine Fire-Extinguishing Systems.
Claims use since Nov. 15, 1919.

Ser. No. 128,309. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KINGAN & COMPANY, LIMITED, Belfast, Ireland; Indianapolis, Ind.; Atlanta, Ga.; Jacksonville, Fla.; Richmond, Va.; Washington, D. C.; San Francisco, Calif.; Norfolk, Va.; Tampa, Fla.; Baltimore, Md.; Columbus, Ohio. Filed Feb. 12, 1920.

KINGAN'S

Particular description of goods.—Fresh Meats, Cured Meats, Cooked Meats, Canned Meats, Salted Meats, Pickled Meats, Sausages, Lard, Oleomargarin, and Pork and Beans.
Claims use since August, 1914.

Ser. No. 128,388. (CLASS 37. PAPER AND STATIONERY.) H. P. HARRIS, Scranton, Pa. Filed Feb. 14, 1920.

Object Club

Particular description of goods.—Books and Cards of a Blank Nature.
Claims use since Nov. 1, 1919.

Ser. No. 128,527. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWIN D. SCOTT, Graham, N. C. Filed Feb. 17, 1920.

RAT-I-CIDE



Particular description of goods.—Preparation for Killing Rats.
Claims use since June 1, 1919.

Ser. No. 128,791. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) METAL HOSE & TUBING CO. INC., Brooklyn, N. Y. Filed Feb. 24, 1920.

BENFLEX

Particular description of goods.—Fabric-Covered Rubber Hose with Metal Lining.
Claims use since Jan. 26, 1920.

Ser. No. 128,822. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISCEGLIA BROTHERS, San Jose, Calif. Filed Feb. 24, 1920.

MORGAN HILL

Particular description of goods.—Canned Fruits—Namely, Canned Cherries, Canned Peaches, Canned Pears, and Canned Apricots; Canned Vegetables—Namely, Tomatoes.
Claims use since Sept. 1, 1902.

Ser. No. 128,858. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. M. NEWHALL & Co., San Francisco, Calif. Filed Feb. 24, 1920.

Newhall Quality

No claim is made to exclusive use of the word "Quality" apart from the mark shown in the drawing. The word "Newhall" is in facsimile handwriting of George Almer Newhall, a member of the firm.
Particular description of goods.—Canned Fruits—Namely, Canned Pears, Peaches, and Apricots—and Tomato Paste.
Claims use since Oct. 7, 1919.

Ser. No. 128,924. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) B. GOLDSTEIN & CO., New York, N. Y. Filed Feb. 26, 1920.



Applicant hereby disclaims the word "Fabrics."
Particular description of goods.—Clothiers' Linings in the Piece.
Claims use since Jan. 1, 1920.

Ser. No. 129,065. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN ARTHUR JOHNSTON, Chicago, Ill. Filed Mar. 1, 1920.

YIROWIN

Particular description of goods.—Liniment for Relief of Aches and Pains, Such as Occur in Rheumatism, Lumbago, Muscular Cramps, Neuralgia, Stiff Neck, and Similar Ailments, Cold and Grippe Capsules, Cough Relief, Sore Throat Relief, Laxative Liver-Pills, and Skin-Lotion.
Claims use since Oct. 15, 1912.

Ser. No. 129,122. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANLEY SEPTIMUS BOOTY, London, England. Filed Mar. 2, 1920.

PAM PAM

Particular description of goods.—Toilet Powder and Rouge.
Claims use since Nov. 26, 1918.

Ser. No. 129,209. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KATHERINE E. HISCOX, Brooklyn, N. Y. Filed Mar. 4, 1920.

La Vi-Vi-en

Particular description of goods.—Skin-Lotions and Wrinkle-Removers.
Claims use since the 5th of January, 1920.

Ser. No. 129,257. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Mar. 5, 1920.

NULIXIR

Particular description of goods.—Elixirs for Use as Vehicles for the Administration of Nauseous Drugs, Tonics, Sedatives, and Digestive Agents.
Claims use since about Jan. 1, 1920.

Ser. No. 129,296. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BAKE-RITE CORPORATION, Chicago, Ill. Filed Mar. 6, 1920.

Bake-Rite

Particular description of goods.—Baking-Ovens.
Claims use since May 9, 1919.

Ser. No. 129,472. (CLASS 37. PAPER AND STATIONERY.) PRICE BROTHERS & COMPANY, LIMITED, Quebec, Quebec, Canada. Filed Mar. 9, 1920.



Particular description of goods.—News-Print Paper, Cardboard, Made of Sulfite and Ground Wood, and Wood-Board.
Claims use since Jan. 7, 1920.

Ser. No. 129,486. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BORDEN COMPANY, New York, N. Y. Filed Mar. 10, 1920.



Particular description of goods.—Milk and Cream, Either Whole or Skimmed, Sterilized, Homogenized, Condensed, Evaporated, Concentrated, or Desiccated, with or without other Ingredients; Malted Milk, Ice-Cream; Food-Beverage Extracts—Namely, Coffee, with or without Added Ingredients—Namely, Milk and Sugar; Candy, Caramels, Caramel Paste.
Claims use since Jan. 1, 1865.

Ser. No. 129,487. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BORDEN COMPANY, New York, N. Y. Filed Mar. 10, 1920.



No claim being made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Milk and Cream, Either Whole or Skimmed, Sterilized, Homogenized, Condensed, Evaporated, Concentrated, or Desiccated, with or without other Ingredients; Malted Milk, Ice-Cream; Food-Beverage Extracts—Namely, Coffee, with or without Added Ingredients—Namely, Milk and Sugar; Candy, Caramels, Caramel Paste.
Claims use since Jan. 1, 1865.

Ser. No. 129,610. (CLASS 10. FERTILIZERS.) ROCKLAND AND ROCKPORT LIME CORPORATION, Rockland, Me. Filed Mar. 12, 1920.

R-R

Particular description of goods.—Land-Lime.
Claims use since Mar. 1, 1905.

Ser. No. 129,668. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO., LTD., Christiania, Norway. Filed Mar. 13, 1920.



The section-lines on the drawing are for the purpose of shading only.
Particular description of goods.—Brisling and Sild, (Frequently Known Generically as Sardines.)
Claims use since about 1914.

Ser. No. 129,671. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO., LTD., Christiania, Norway. Filed Mar. 13, 1920.



Particular description of goods.—Brisling and Sild, (Frequently Known Generically as Sardines.)
Claims use since about 1914.

Ser. No. 129,788. (CLASS 43. THREAD AND YARN.) H. E. LOCKE & COMPANY, INC., Boston, Mass. Filed Mar. 16, 1920.

IBEX

THE ORIGINAL

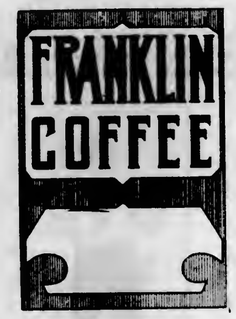
Particular description of goods.—Bag-Thread—Namely, Thread for Sewing Bags.
Claims use since Mar. 1, 1920.

Ser. No. 129,811. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUCHARD, S. A., Serrieres, Switzerland. Filed Mar. 16, 1920.

VELNUT

Particular description of goods.—Chocolate with Hazel-Nut.
Claims use since 1916.

Ser. No. 129,814. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH TUREK, Saginaw, Mich. Filed Mar. 16, 1920.



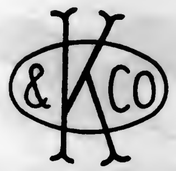
The closely-arranged parallel lines in the drawing indicate shade-lines and are not intended to indicate color. No claim is made to the word "Coffee" as a feature of the mark.
Particular description of goods.—Coffee.
Claims use since Mar. 1, 1920.

Ser. No. 129,885. (CLASS 12. CONSTRUCTION MATERIALS.) FORD ROOFING PRODUCTS COMPANY, INCORPORATED, Chicago, Ill., and St. Louis, Mo. Filed Mar. 18, 1920. Under ten-year proviso.



Lined for green.
Particular description of goods.—Shingles and Prepared Asphalt Roofing.
Claims use since 1865.

Ser. No. 129,979. (CLASS 37. PAPER AND STATIONERY.) K. AND O. CO. INC., Brooklyn, N. Y. Filed Mar. 20, 1920.



Particular description of goods.—Metal Desk Sets—viz., Inkstands, Stamp-Boxes, Pen-Trays, Clips, Paper-Cutters, Cast Figure Paper-Weights.
Claims use since Jan. 1, 1905.

Ser. No. 130,145. (CLASS 39. CLOTHING.) HURWITZ BROTHERS, New York, N. Y. Filed Mar. 24, 1920.



Particular description of goods.—Infants' and Children's Dresses.
Claims use since Feb. 1, 1920.

Ser. No. 130,156. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLACK AND GAY CANNERS, INC., Thomaston, Me. Filed Mar. 25, 1920.



Particular description of goods.—Canned Vegetables, Canned Pork and Beans, Canned Berries, and Canned Clams.
Claims use since 1911.

Ser. No. 130,166. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EDWARD R. HICKEY, Los Angeles, Calif. Filed Mar. 25, 1920.



Particular description of goods.—Electric Motors and Generators and Parts Thereof.
Claims use since Feb. 10, 1919.

Ser. No. 130,275. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. R. HOLLINGSHEAD COMPANY, Binghamton, N. Y. Filed Mar. 27, 1920.

BINGO

The mark consists of the word "Bingo."
Particular description of goods.—Ironing-Wax.
Claims use since July 1, 1917.

Ser. No. 130,347. (CLASS 17. TOBACCO PRODUCTS.) WILLIAM L. VAN DYKE, Tampa, Fla. Filed Mar. 29, 1920.

USACUBA

Particular description of goods.—Cigars.
Claims use since Feb. 2, 1918.

Ser. No. 130,365. (CLASS 39. CLOTHING.) FRANK & HYMAN, INCORPORATED, San Francisco, Calif. Filed Mar. 30, 1920.



The exclusive use of the word "Tan" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Shoes.
Claims use since Jan. 1, 1920.

Ser. No. 130,407. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE CELLULOID COMPANY, New York, N. Y. Filed Mar. 31, 1920.

SNAP-A-CUFF

The word "Snap-a-Cuff."
Particular description of goods.—Cuff-Buttons.
Claims use since Feb. 2, 1920.

Ser. No. 130,462. (CLASS 17. TOBACCO PRODUCTS.) JACOB (JACK) AUGENBLICK, New York, N. Y. Filed Apr. 1, 1920.

MAXIMUS

Particular description of goods.—Cigars.
Claims use since June 5, 1901.

Ser. No. 130,767. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE NEW YORK CONSOLIDATED CARD COMPANY, New York, N. Y. Filed Apr. 7, 1920.

CAMBRIC

Particular description of goods.—Playing-Cards.
Claims use since Jan. 1, 1910.

Ser. No. 130,841. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Apr. 8, 1920.

VITRICARBO

Particular description of goods.—Luting Compounds.
Claims use since the year 1913.

Ser. No. 130,870. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN WIRE FABRICS COMPANY, Chicago, Ill. Filed Apr. 9, 1920.

AMERICAN

No claim being made to the word "American" except in the setting and relation in which it appears in the drawing.

Particular description of goods.—Hardware, Plumbing, and Steam-Fitting Supplies.

Claims use since 1911.

Ser. No. 131,054. (CLASS 25. LOCKS AND SAFES.) THE YALE & TOWNE MFG. CO., Stamford, Conn. Filed Apr. 12, 1920.

YALE

Particular description of goods.—Locks and Parts Thereof, Screen-Door Latches, Secret Gate-Catches, Screen-Door Catches, Cupboard-Turns, Cupboard-Catches, Mortise-Extension Bolts, Cupboard-Bolts, Swing-Latches.

Claims use since 1902.

Ser. No. 131,183. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARITIME TRADING CORPORATION, New York, N. Y. Filed Apr. 15, 1920.

E

Particular description of goods.—Poultry and Stock Food.

Claims use since about Aug. 1, 1919.

Ser. No. 131,249. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN TRADING COMPANY, New York, N. Y. Filed Apr. 17, 1920.

Q-R-S- BRAND

The word "Brand" is hereby disclaimed apart from the other features of the mark.

Particular description of goods.—Small Fish Canned in Oil.

Claims use since Apr. 3, 1920.

Ser. No. 131,341. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LARKIN CO., Buffalo, N. Y. Filed Apr. 19, 1920.

Larco

Particular description of goods.—Fireless Cookers.

Claims use since Aug. 13, 1917.

Ser. No. 131,351. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) P. B. CANDY CO., New York, N. Y. Filed Apr. 19, 1920.

SURBRUG'S SUNNY SOUTH SALTED

No claim is made to the exclusive use of the words "Salted" and "World Satisfaction" apart from the mark shown in the drawing.

Particular description of goods.—Peanut-Butter and Salted Peanuts.

Claims use since the year 1894.

Ser. No. 131,408. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STRAUSS BROTHERS, Baltimore, Md. Filed Apr. 20, 1920.

WORLD BEATER

Particular description of goods.—Muslin Piece Goods.

Claims use since Jan. 2, 1916.

Ser. No. 131,423. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HOME ACCESSORIES CO., New York, N. Y. Filed Apr. 21, 1920.

THE KITLEY CAPPER

No claim is made to the word "The" and "Capper" except in conjunction with other elements of the trade-mark.

Particular description of goods.—Cappers Suitable for Fastening Metallic Caps upon Bottles, Glasses, Jars, and Similar Containers.

Claims use since Feb. 14, 1920.

Ser. No. 131,463. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARTER, MACY & CO. INC., New York, N. Y. Filed Apr. 22, 1920.

HILLCREST



No claim is made to the Chinese characters translated as "Te," "Niu," and "Yoh" apart from the mark shown in the drawing.

Particular description of goods.—Teas.

Claims use since on or about Jan. 1, 1919.

Ser. No. 131,541. (CLASS 22. GAMES, TOYS AND SPORTING GOODS.) THE SEAMLESS RUBBER COMPANY INC., New Haven, Conn. Filed Apr. 23, 1920.

TRUFLITE

Particular description of goods.—Hand-Balls and Tennis-Balls.

Claims use since Oct. 20, 1919.

Ser. No. 131,713. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROCHESTER ICE CREAM COMPANY, Rochester, N. Y. Filed Apr. 27, 1920.

COUNTRY CLUB

Particular description of goods.—Ice-Cream.

Claims use since Mar. 31, 1918.

Ser. No. 131,847. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLITS & GREEN, Los Angeles, Calif. Filed Apr. 29, 1920.

HOMFLAVOR

Particular description of goods.—Foods and Ingredients of Foods—Namely, Jams, Jellies, and Fruit Preserves.

Claims use since September, 1918.

Ser. No. 131,852. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS H. BOWDIDGE, Boston, Mass. Filed Apr. 30, 1920.

Kleen Kandy

No claim being made to the words "Kleen Kandy" aside from the mark as shown and without waiving any of applicant's common-law rights thereto.

Particular description of goods.—Candy.

Claims use since Apr. 7, 1920.

Ser. No. 131,871. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Apr. 30, 1920.

Granette

Consisting of the word "Granette."

Particular description of goods.—Silk, Woolen, Linen, and Cotton Piece Goods and Combinations Thereof.

Claims use since July 2, 1919.

Ser. No. 131,935. (CLASS 15. OILS AND GREASES.) HENRY C. WILSON, New York, N. Y. Filed May 1, 1920.

STAZON

No claim being made to the phrase "Stayson" in the accompanying drawing.

Particular description of goods.—Rust-Retarding Oil Compositions and Lubricating-Grease for Ferrous Materials.

Claims use since Mar. 1, 1920.

Ser. No. 132,012. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FISK-JENCKS FOUNDRY CO., Geneva, Ill. Filed May 4, 1920.

FISK JENCKS

Particular description of goods.—Cast-Iron Castings.

Claims use since July 1, 1919.

Ser. No. 132,028. (CLASS 43. THREAD AND YARN.) SEAMANS & COBB COMPANY, Augusta, Me., and Boston, Mass. Filed May 4, 1920.

JAPERICA TWIST

Consisting of the words "Japerica Twist," no claim being made to the right to the exclusive use of the word "Twist" except as it appears in the accompanying drawing and samples of the trade-mark filed with the application.

Particular description of goods.—Mercerized Cotton Sewing-Threads.

Claims use since November, 1917.

Ser. No. 132,041. (CLASS 37. PAPER AND STATIONERY.) THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio. Filed May 5, 1920.

FINEFOLD

The lines being for shading only.

Particular description of goods.—Enameled Paper—Namely, Book-Paper, Cover-Paper, and Box-Paper.

Claims use since October, 1914.

Ser. No. 132,069. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WEIR & CRAIG COMPANY, Chicago, Ill. Filed May 5, 1920. Under ten-year proviso.

MARSH

Particular description of goods.—Backwater-Valves, Water and Steam Traps.

Claims use since 1889.

Ser. No. 132,2404. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHRIST BARUXES, Newark, Ohio. Filed May 10, 1920.

Particular description of goods.—Hard and Soft Candies, Bonbons, Chocolates, and Marshmallows.

Claims use since Dec. 1, 1919.

Ser. No. 132,304. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HARRIS GREENBERG, New York, N. Y. Filed May 11, 1920.

WELDO PATCH

No claim being made to the exclusive use of the words "Self-Welding, Patch, All Rubber, a Patch That Has No Match" nor to the pictorial representation of the patch.

Particular description of goods.—Patches for Repairing Rubber Goods—viz., Tires, Tubes, Gum Boots, Hot-Water Bags.

Claims use since Feb. 21, 1920.

Ser. No. 132,396. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WILLIAM G. LEE, Oakland, Calif. Filed May 13, 1920.

SUPER INSPECTED SEDER

I desire to disclaim the word "Inspected" shown in the drawing.

Particular description of goods.—Separators, Insulators, or Partitions Used in Lighting and Storage Batteries.

Claims use since Oct. 1, 1919.

Ser. No. 132,463. (CLASS 37. PAPER AND STATIONERY.) CHICAGO GUM TAPE COMPANY, Chicago, Ill. Filed May 15, 1920.

"GRIP-TITE"

Particular description of goods.—Gummed and Ungummed Paper Sealing, Veneer, and Stay Tapes.

Claims use since prior to June 17, 1917.

Ser. No. 132,514. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. A. W. DAVIS CORP., New York, N. Y. Filed May 17, 1920.

COMMODORE

Particular description of goods.—Fiber Carpets and Rugs.

Claims use since January, 1915.

Ser. No. 132,675. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ARTHUR STORAGE BATTERY SUPPLY CO., Chicago, Ill. Filed May 20, 1920.

No claim is made to the exclusive use of the word "Batteries" apart from the trade-mark as shown. The shading in the drawing indicates red.

Particular description of goods.—Storage Batteries, Plates, Terminals, and Accessories Therefor—Namely, Post-Straps, Cop-Cell Connectors, Flat-Cell Connectors, Taper Terminals, Neutral Links, Handles, Cable-Terminals, Terminal Cables, Taper Plugs, Lead-Covered Studs, Rubber Separators, Battery-Charging Clips, Treated-Wood Separators, Hard-Rubber Jars, Seal-Covers, Flat Covers, Vent-Caps, Vent-Tubes, Gaskets, Wood Cases.

Claims use since Sept. 1, 1919.

Ser. No. 132,685. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAWSON-DAVIS COMPANY, INC., Boston, Mass. Filed May 20, 1920.

Particular description of goods.—Wheat-Flour.

Claims use since Nov. 5, 1919.

Ser. No. 132,745. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES KEILLER & SON, LTD., Dundee, Scotland. Filed May 21, 1920.

LINDA

Particular description of goods.—Chocolate.

Claims use since March, 1919.

Ser. No. 132,811. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANCIS ROGERS & SONS, New York, N. Y. Filed May 22, 1920.

THREE NICKEL

Particular description of goods.—Coffee.

Claims use since about May, 1910.

Ser. No. 132,925. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HINCK & MULLER, New York, N. Y. Filed May 25, 1920.

INCA

Particular description of goods.—Cotton Piece Goods.

Claims use since 1918.

Ser. No. 132,930. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HANSON MOTOR COMPANY, Atlanta, Ga. Filed May 25, 1920.

HANSON

Particular description of goods.—Automobiles.

Claims use since February, 1917.

Ser. No. 132,942. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WARREN A. ROSS, Haverhill, Mass. Filed May 25, 1920.

ROSS-McDONALD Singette MODERN BARBER SUPPLIES SPOKANE WASH

I disclaim the use of the words "Ross-McDonald," "Modern Barber Supplies," and "Spokane, Wash."

Particular description of goods.—An Electric Hair-Singeing Device.

Claims use since Apr. 22, 1920.

Ser. No. 132,947. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEMRAD CHEMICAL CO., Chicago, Ill. Filed May 25, 1920.

GREENVIEW

Particular description of goods.—Food-Flavorings for Ice-Cream and Confectionery.

Claims use since Jan. 2, 1920.

Ser. No. 132,995. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) NATIONAL CAR COUPLER COMPANY, Attica, Ind. Filed May 26, 1920.



Particular description of goods.—Car-Couplers.
Claims use since Mar. 1, 1920.

Ser. No. 132,996. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) NATIONAL CAR COUPLER COMPANY, Attica, Ind. Filed May 26, 1920.

CRAWDAD

Particular description of goods.—Car-Couplers.
Claims use since Mar. 1, 1920.

Ser. No. 133,019. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FAYETTE R. PLUMB, INC., Philadelphia, Pa. Filed May 27, 1920.

PLUMB

Particular description of goods.—Hammers, Hatchets, Axes, and Sledges.
Claims use since Aug. 1, 1917.

Ser. No. 133,082. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CHISWICK POLISH COMPANY, LIMITED, Chiswick, London, England. Filed May 29, 1920.



The lining indicating shading only and not color.
Particular description of goods.—Metal, Leather, and Boot and Shoe Polishes.
Claims use since Aug. 23, 1919.

Ser. No. 133,090. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed May 29, 1920.

Floradora

Consisting of the word "Floradora."
Particular description of goods.—Silk, Woolen, Linen, and Cotton Piece Goods and Combinations Thereof.
Claims use since Apr. 24, 1920.

Ser. No. 133,091. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed May 29, 1920.

Trianon

Consisting of the word "Trianon."
Particular description of goods.—Silk, Woolen, Linen, and Cotton Piece Goods and Combinations Thereof.
Claims use since Apr. 24, 1920.

Ser. No. 133,190. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE POWRLOK COMPANY, Cleveland, Ohio. Filed June 2, 1920.



Particular description of goods.—Differential Gears to Be Used in Motor-Vehicles.
Claims use since Feb. 15, 1920.

Ser. No. 133,196. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. AUERBACH & SONS, New York, N. Y. Filed June 3, 1920.

AUER-BEST

Particular description of goods.—Chocolates.
Claims use since Jan. 2, 1920.

Ser. No. 133,245. (CLASS 37. PAPER AND STATIONERY.) THE ALLING AND CORY CO., Rochester, N. Y. Filed June 4, 1920.

Dri-Pac

Particular description of goods.—Wrapping-Paper.
Claims use since April, 1913.

Ser. No. 133,247. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) B. F. AVERY & SONS, Louisville, Ky. Filed June 4, 1920. Under ten-year proviso.

B.F.AVERY & SONS

Particular description of goods.—Plows, Cultivators, Planters, Rakes, Tedders, Hay-Loaders, Hay-Presses, Stackers, Combined Rakes and Stackers, Corn-Pickers, Corn-Shellers; Cornstalk Rakes, Huskers, and Shredders; Ensilage-Cutters, Feed-Grinders, Harrows, Knife and Tool Grinders, Binder-Hitches, Binders, Reapers, Headers, Header-Binders, Mowers, Corn-Binders, Seeders, Planters, Land-Packers, Land-Rollers, Manure-Spreaders, Stalk-Cutters, Weeders, Grain-Drills, Fertilizer-Drills, Lime-Sowers, and Separate Parts for Each of Said Machines.
Claims use since June, 1877.

Ser. No. 133,280. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE POWER MANUFACTURING COMPANY, Marion, Ohio. Filed June 4, 1920.



Particular description of goods.—Internal-Combustion Engines.
Claims use since 1911.

Ser. No. 133,285. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELBERTA REED STEEG, Kansas City, Mo. Filed June 4, 1920.

Peacock

Particular description of goods.—Candy.
Claims use since May 12, 1919.

Ser. No. 133,287. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SEES-ALL MANUFACTURING COMPANY, Seattle, Wash. Filed June 4, 1920.

SEES-ALL

Particular description of goods.—Automobile-Windshield Mirrors.
Claims use since Feb. 3, 1920.

Ser. No. 133,307. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HIDE LEATHER & BELTING CO., Indianapolis, Ind. Filed June 5, 1920.



Particular description of goods.—Leather Belting.
Claims use since May 1, 1920.

Ser. No. 133,360. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARABEE FLOUR MILLS CORPORATION, Kansas City, Mo. Filed June 7, 1920.



In which the vertical lining on the letters indicates red.
Particular description of goods.—Wheat-Flour.
Claims use since Sept. 10, 1913.

Ser. No. 133,386. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SUPERIOR STEEL CORPORATION, Pittsburgh, Pa. Filed June 7, 1920. Under ten-year proviso.

SUPERIOR

Particular description of goods.—Hot and Cold Rolled Strip-Steel.
Claims use since Jan. 1, 1893.

Ser. No. 133,393. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) AMERICAN METAL PARTS CORPORATION, Boston, Mass. Filed June 8, 1920.



Applicant disclaims the representation of a piston-ring apart from the other features of the mark.
Particular description of goods.—Piston-Rings.
Claims use since Apr. 10, 1920.

Ser. No. 133,395. (CLASS 33. GLASSWARE.) GEORGE BORGFELDT & CO., New York, N. Y. Filed June 8, 1920.

KEWPIE

Particular description of goods.—Glassware—Namely, Plates, Mugs, and Bottles.
Claims use since Sept. 19, 1919.

Ser. No. 133,423. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LEGALLET HELLWIG NORTON COMPANY, San Francisco, Calif. Filed June 8, 1920.



Particular description of goods.—Leather.
Claims use since Nov. 20, 1919.

Ser. No. 133,472. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL PACKING CORPORATION OF CALIFORNIA, Los Angeles, Calif. Filed June 9, 1920.



Particular description of goods.—Canned Tuna Fish, Canned Sardines, Canned Mackerel, Canned Bonita, Canned Yellowtail, and Canned Amber-Fish.
Claims use since June 1, A. D. 1918.

Ser No. 133,477. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KALISH & MILLER, New York, N. Y. Filed June 9, 1920.

BEAVERETTE
K&M
FUR

No claim being made to the words "Beaverette Fur" apart from the mark shown on the drawing.
Particular description of goods.—A Certain Fur Manufactured by Us from Pieces of Inexpensive Furs, Which are Carefully Sewed Together and Then Dyed to Give the Color and Appearance of Genuine Beaver-Fur Piece, from Which Clothing may be Cut.
Claims use since Dec. 1, 1919.

Ser. No. 133,513. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ATHOL MANUFACTURING COMPANY, Athol, Mass. Filed June 10, 1920.

ATHOLEATHER

Particular description of goods.—A Waterproofed Fabric.
Claims use since Jan. 1, 1916.

Ser. No. 133,617. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERLASTIK, INCORPORATED, Boston, Mass. Filed June 12, 1920.

EVERLASTIK

Particular description of goods.—Elastic and Non-Elastic Webs.
Claims use since on or about Apr. 1, 1897.

Ser. No. 133,674. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY KUPFER & SON, Chicago, Ill. Filed June 14, 1920.

ICY DEVIL

Particular description of goods.—Candies and Sweetmeats.
Claims use since July, 1919.

Ser. No. 133,748. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NASHUA MANUFG. COMPANY, Nashua, N. H. Filed June 15, 1920.



Particular description of goods.—Cotton Piece Goods—Namely, Cotton Suitings.
Claims use since May 13, 1920.

Ser. No. 133,756. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN ELECTRICAL WORKS, Phillipsdale, R. I. Filed June 16, 1920.



No claim is made to the words "American Electrical Works" and "Phillipsdale, R. I." apart from the mark shown in the drawing.
Particular description of goods.—Bare and Insulated Copper and Copper-Alloy Wires, Cables, and Cordage Used for Electrical Purposes.
Claims use since on or about May 3, 1920.

Ser. No. 133,785. (CLASS 39. CLOTHING.) LOUIS LEWIN COMPANY, Chicago, Ill. Filed June 16, 1920.

WORKALLS

Particular description of goods.—Overalls.
Claims use since on or about Apr. 1, 1920.

Ser. No. 133,786. (CLASS 39. CLOTHING.) LOUIS LEWIN COMPANY, Chicago, Ill. Filed June 16, 1920.

BOB
WORKALLS

Particular description of goods.—Overalls.
Claims use since on or about Apr. 1, 1920.

Ser. No. 133,803. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STATE SPECIALTY CO., Moundsville, W. Va. Filed June 16, 1920.



Particular description of goods.—Candy.
Claims use since Dec. 1, 1919.

Ser. No. 133,804. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) TERNSTEDT MANUFACTURING CO., Detroit, Mich. Filed June 16, 1920.



No claim is made to the exclusive use of the words "Mfd. by" and the words "Detroit, U. S. A." apart from the mark as shown by the drawing.
Particular description of goods.—Window-Regulators.
Claims use since May 1, 1919.

Ser. No. 133,831. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MATTHEWS COMPANY, Port Clinton, Ohio. Filed June 17, 1920.

KER-O-EL

Particular description of goods.—Unitary Electric Light and Power Plants.
Claims use since April, 1920.

Ser. No. 133,854. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JAY C. VAN HOAN, Philadelphia, Pa. Filed June 17, 1920.



No claim is made to the conventional representation of wireless apparatus apart from the mark shown in the drawing.
Particular description of goods.—Electrical Apparatus for Radiosignaling—Namely, Radio-Receivers, Amplifiers, Transformers, Telegraph-Keys, Lamp-Sockets, Spark-Gaps, Induction-Coils, Condensers, Rheostats, Batteries, Buzzers, Tuning-Coils, Wave-Meters, and Parts Thereof.
Claims use since on or about Nov. 1, 1912.

Ser. No. 133,896. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STODDARD, GILBERT & CO., INC., New Haven, Conn. Filed June 18, 1920.

OLD GREEN

The lining indicating the color green.
Particular description of goods.—Candy.
Claims use since Nov. 2, 1918.

Ser. No. 133,936. (CLASS 43. THREADS AND YARN.) H. RAY PAIGE & COMPANY, INC., New York, N. Y. Filed June 19, 1920.



No exclusive claim is made to the words "Cotton Yarns" or "New York, U. S. A." or to the representation of a skein of yarn apart from the mark as shown.
Particular description of goods.—Cotton Yarns.
Claims use since about Jan. 1, 1920.

Ser. No. 133,942. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STATE SPECIALTY CO., Moundsville, W. Va. Filed June 19, 1920.

Staco

Particular description of goods.—Candy.
Claims use since Jan. 15, 1920.

Ser. No. 133,964. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ESTATE STOVE COMPANY, Hamilton, Ohio. Filed June 21, 1920.

Estate

Particular description of goods.—Electric Air-Heating Stoves, Electric Cooking-Stoves, and Electric Portable Air-Heaters.
Claims use since Feb. 1, 1880.

Ser. No. 133,965. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE ESTATE STOVE COMPANY, Hamilton, Ohio. Filed June 21, 1920.

Estate

Particular description of goods.—Gas Heating-Stoves, Gas Cooking-Stoves, Coal Heating-Stoves, Coal Hot-Air Furnaces, Wood Cook-Stoves, and Wood Heating-Stoves.
Claims use since Feb. 1, 1880.

Ser. No. 133,999. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE WATTERS CORPORATION, Wilmington, Del., and St. Louis, Mo. Filed June 21, 1920.

Watters Systems

Particular description of goods.—Automatic Account-Finding Machines and Pay-Roll-Scheduling Machines.
Claims use since Feb. 15, 1920.

Ser. No. 134,003. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed June 22, 1920.

A

Particular description of goods.—Hard-Rubber Pipe, Hard-Rubber Elbows, Hard-Rubber T's, Hard-Rubber Nuts, and Hard-Rubber Cocks, All Used as Equipment for the Conveyance and Handling of Corrosive Chemical Solutions, and Hard-Rubber Closet-Seats.
Claims use since Mar. 5, 1920.

Ser. No. 134,016. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EL RENO MILL & ELEVATOR CO., El Reno, Okla. Filed June 22, 1920.

VI-CO-SA

Particular description of goods.—Wheat-Flour.
Claims use since May 12, 1920.

Ser. No. 134,057. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLOVER CREAMERY COMPANY, INC., Roanoke, Va. Filed June 23, 1920.

Clover

Particular description of goods.—Ice-Cream.
Claims use since the year 1900.

Ser. No. 134,178. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BORDEN COMPANY, Jersey City, N. J., and New York, N. Y. Filed June 25, 1920.

T·S

Particular description of goods.—Condensed Milk.
Claims use since Jan. 3, 1914.

Ser. No. 134,220. (CLASS 39. CLOTHING.) LEVI STRAUSS & CO., San Francisco, Calif. Filed June 25, 1920.

HOME RUN

Particular description of goods.—Dress, Negligée, and Work Shirts, Blouses, Coats, Vests, Pants, Jackets, Jumpers, and Overalls for Men, Youths, and Boys, Also Play-Suits.
Claims use since May 10, 1920.

Ser. No. 134,235. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed June 26, 1920.

GOVERNOR

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since June 8, 1920.

Ser. No. 134,237. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed June 26, 1920.

Goldenlocks

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since June 4, 1920.

Ser. No. 134,246. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FAIRBANKS, MORSE & CO., Chicago, Ill. Filed June 26, 1920.

FAIRBANKS-MORSE QUALITY F M 100%

No claim being made to the exclusive use of the word "Quality" apart from the mark shown in the drawing.
Particular description of goods.—Dynamos and Motors.
Claims use since May 18, 1920.

Ser. No. 134,297. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ALBERT BLOCH & SONS, New York, N. Y. Filed June 28, 1920.

ABESCO BRAND ABS

No claim being made to the word "Brand" shown in the drawing.
Particular description of goods.—Sponges and Chamois.
Claims use since about June, 1918.

Ser. No. 134,318. (CLASS 39. CLOTHING.) THE HOUSE OF FINKELSTEIN, INCORPORATED, St. Louis, Mo. Filed June 28, 1920.

FLORODORA

Particular description of goods.—Women's and Girl's Outer Garments—Namely, Street, Evening, and House Dresses.
Claims use since May 15, 1920.

Ser. No. 134,324. (CLASS 39. CLOTHING.) PHILLIPS-JONES COMPANY, INC., New York, N. Y. Filed June 28, 1920.

Splendor

Particular description of goods.—Men's Outer Shirts, Men's Pajamas, Men's Underwear, Both Knit and Woven Goods, and Men's Neckwear and Hosiery.
Claims use since Oct. 15, 1919.

Ser. No. 134,375. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MAGNAVOX COMPANY, San Francisco, Calif. Filed June 29, 1920.

MAGNAVOX

Particular description of goods.—Electrical Sound-Amplifying Devices, Loud-Speaking Telephones, Marine Telephones, Aircraft-Telephones, Desk-Telephones, Audion-Frequency-Amplifying Cabinets, Control-Boxes for Loud-Speaking Telephones, Loud-Speaking Transmitters, Junction-Boxes, Antinoise-Telephones, and Master-Ringers for Marine-Telephone Equipment.
Claims use since May, 1915.

Ser. No. 134,377. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MODERN MACARONI MANUFACTURING COMPANY, Brooklyn, N. Y. Filed June 29, 1920.

DIANA BRAND

The word "Brand" is hereby disclaimed apart from the other features of the mark.
Particular description of goods.—Macaroni.
Claims use since Sept. 1, 1919.

Ser. No. 134,436. (CLASS 39. CLOTHING.) DAISY M. STANFORD, Brooklyn, N. Y. Filed June 30, 1920.

DAINTY BLOSSOM

Particular description of goods.—Frocks for Children.
Claims use since Apr. 20, 1920.

Ser. No. 134,454. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BENNETT MILLING CO., Grafton, Ohio. Filed July 1, 1920.

BENNETT'S SUN-RAYS

Particular description of goods.—Wheat-Flour.
Claims use since October, 1917.

Ser. No. 134,487. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDWARD P. STAHEL & CO., New York, N. Y. Filed July 1, 1920.

THOROUGHLY SHRUNK HARVO MADE IN GREAT BRITAIN

The words "Thoroughly Shrunk" and "Made in Great Britain" are hereby disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Straight Woven Wool and Goat-Hair Piece Goods.
Claims use since Feb. 1, 1920.

Ser. No. 134,506. (CLASS 39. CLOTHING.) SAMUEL COHEN & SONS, New York, N. Y. Filed July 2, 1920.

SACSON

Particular description of goods.—House-Dresses, Porch-Dresses, Bath-Robes, and Dressing-Sacks.
Claims use since Nov. 28, 1919.

Ser. No. 134,547. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) READING BAKING & PRETZEL CO., INC., Reading, Pa. Filed July 3, 1920.



No claim being made to the words "The Famous Reading Pretsel" or to the representation of a pretzel apart from the mark shown in the drawing.
Particular description of goods.—Pretzels.
Claims use since about September, 1918.

Ser. No. 134,625. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed July 7, 1920.

VENUS

Consists in the word "Venus."
Particular description of goods.—Pencil-Sharpeners.
Claims use since Jan. 2, 1920.

Ser. No. 134,705. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC VACUUM CLEANER COMPANY, INC., Cleveland, Ohio. Filed July 8, 1920.

HANDYVAC

Consisting of the word "Handyvac."
Particular description of goods.—Electric Vacuum-Cleaners.
Claims use since Apr. 15, 1920.

Ser. No. 134,726. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PROUTY-BOWLER SOAP CO., Des Moines, Iowa. Filed July 8, 1920. Under ten-year proviso.

WHITE LAUNDRY

Particular description of goods.—Laundry Soap.
Claims use since 1889.

Ser. No. 134,734. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. M. THOMPSON, Muncie, Ind. Filed July 8, 1920.

SUNRISE

Particular description of goods.—Bread.
Claims use since June 17, 1920.

Ser. No. 134,861. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TAYLOR, CLAPP & BEALL, New York, N. Y. Filed July 12, 1920.



No claim being made to the exclusive use of the words "New York" apart from the mark as shown in the drawing, and the lining in the drawing merely representing shading.
Particular description of goods.—Cotton Piece Goods.
Claims use since June 1, 1920.

Ser. No. 134,871. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARRY ALT, New York, N. Y. Filed July 13, 1920.

ALT.

Particular description of goods.—Serge and Woolens in the Piece.
Claims use since June 1, 1919.

Ser. No. 134,920. (CLASS 37. PAPER AND STATIONERY.) SCHMIDT & AULT PAPER CO., York, Pa. Filed July 13, 1920.



Particular description of goods.—Tailors' Pattern-Papers and Blue Macaroni-Paper.
Claims use since June 19, 1920.

Ser. No. 135,012. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MENNEL MILLING COMPANY, Toledo, Ohio. Filed July 15, 1920.



Doughboy

Particular description of goods.—Wheat-Flour.
Claims use since Dec. 5, 1918.

Ser. No. 135,120. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BROS. CO., INC., Buffalo, N. Y. Filed July 17, 1920.

WARD BROS. COMPANY INC.

Particular description of goods.—Bread.
Claims use since June 26, 1920.

Ser. No. 135,147. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOYLAND FLOUR MILLS COMPANY, Kansas City, Mo. Filed July 19, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since about the 1st day of June, 1918.

Ser. No. 135,246. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN W. PAYNE, Golden City, Mo. Filed July 21, 1920.

RAZORPEP

Particular description of goods.—Strop-Dressing for Sharpening Razors.
Claims use since Aug. 2, 1919.

Ser. No. 135,290. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MUNYON'S HOMOEOPATHIC HOME REMEDY COMPANY, Philadelphia, Pa. Filed July 22, 1920.



Being a portrait of James M. Munyon, deceased, the founder of our business.
Particular description of goods.—Toilet Soap.
Claims use since about December, 1920.

Ser. No. 135,297. (CLASS 37. PAPER AND STATIONERY.) THE PENCRAFT COMPANY, Chicago, Ill. Filed July 22, 1920.

PENCRAFT

Particular description of goods.—Fountain-Pens.
Claims use since May 1, 1918.

TRADE-MARK REGISTRATIONS GRANTED

AUGUST 31, 1920.

134,331. MEDICINAL TREATMENT FOR CATARRHAL CONDITIONS. ACME CHEMICAL MFG. CO. LTD., New Orleans, La.
Filed January 6, 1920. Serial No. 126,836. PUBLISHED MAY 4, 1920.

134,332. CANNED PORK AND BEANS, APPLE-BUTTER, JAMS, AND JELLY. ACME PACKING CO., Chicago, Ill.
Filed February 28, 1920. Serial No. 128,987. PUBLISHED MAY 18, 1920.

134,333. FOOD-FLAVORING EXTRACTS. ADES PRODUCT CORPORATION, Philadelphia, Pa.
Filed February 17, 1920. Serial No. 128,482. PUBLISHED MAY 18, 1920.

134,334. RUG-CLEANING COMPOUND. JOHN G. ALEXANIAN, Fort Wayne, Ind.
Filed July 24, 1919. Serial No. 120,863. PUBLISHED MAY 18, 1920.

134,335. CONFECTIONERY—NAMELY, CHOCOLATES. ALL-QUAL-SWEETS CO., INC., Chicago, Ill.
Filed December 15, 1919. Serial No. 125,998. PUBLISHED MAY 25, 1920.

134,336. CANNED EVAPORATED MILK. ALPINE EVAPORATED CREAM CO., San Francisco, Calif.
Filed May 19, 1919. Serial No. 118,633. PUBLISHED SEPTEMBER 30, 1919.

134,337. SHUTTERS FOR RADIATORS OF MOTOR-VEHICLES. AUTO METAL PARTS COMPANY, Des Moines, Iowa.
Filed January 26, 1920. Serial No. 127,572. PUBLISHED MAY 25, 1920.

134,338. COAL. BAIR-COLLINS COAL CO., Billings, Mont.
Filed January 12, 1920. Serial No. 127,039. PUBLISHED MAY 25, 1920.

134,339. MONTHLY PUBLICATION. THE BARNES-ROSS COMPANY, Indianapolis, Ind.
Filed July 28, 1919. Serial No. 120,981. PUBLISHED FEBRUARY 10, 1920.

134,340. OLIVE-OIL. JOSÉ BAU, Tortosa, Spain.
Filed March 25, 1919. Serial No. 116,875. PUBLISHED MAY 18, 1920.

134,341. OLIVE-OIL. JOSÉ BAU, Tortosa, Spain.
Filed March 25, 1919. Serial No. 116,876. PUBLISHED MAY 18, 1920.

134,342. OLIVE-OIL. JOSÉ BAU VERYÉS, Tortosa, Spain.
Filed March 25, 1919. Serial No. 116,877. PUBLISHED MAY 18, 1920.

134,343. CANDIES. J. S. BELL CONFECTIONERY COMPANY, Cambridge, Mass.
Filed October, 28, 1919. Serial No. 124,257. PUBLISHED MAY 25, 1920.

134,344. WATERPROOF AND NON-WATERPROOF COATS, SLICKERS; APRONS, EXCLUDING DENTAL, MEDICAL, AND SURGICAL APRONS; PONCHOS, HATS, OVERALLS, PANTS, AND LEGGINGS. JAMES T. CARADINE, St. Louis, Mo.
Filed March 22, 1918. Serial No. 109,709. PUBLISHED MAY 27, 1919.

134,345. COVERS FOR HEATING-RADIATORS. THE CAREY COMPANY, Cleveland, Ohio.
Filed December 13, 1917. Serial No. 107,937. PUBLISHED MAY 25, 1920.

134,346. METAL CAPS FOR BOTTLES, JARS, AND TUMBLERS. LESLIE R. N. CARVALHO, Brooklyn, N. Y., assignor, by mesne assignments, to Closure Service Corp., of Brooklyn, N. Y., a Corporation of New York.
Filed July 2, 1919. Serial No. 120,202. PUBLISHED MAY 25, 1920.

134,347. TEA. CHASE & SANBORN, Boston, Mass.
Filed March 2, 1920. Serial No. 129,127. PUBLISHED MAY 11, 1920.

134,348. CHOCOLATES AND CANDIES. CHÉRI INCORPORATED, Philadelphia, Pa.
Filed March 29, 1919. Serial No. 117,005. PUBLISHED MAY 11, 1920.

134,349. POWDERED BUTTERMILK. COLLIS PRODUCTS COMPANY, Clinton, Iowa.
Filed July 30, 1919. Serial No. 121,107. PUBLISHED MAY 18, 1920.

134,350. PANCAKE-FLOUR, A COMPOSITION OF FLOURS OF VARIOUS GRAINS AND LEAVENING. THE COMMERCIAL MILLING CO., Detroit, Mich.
Filed January 15, 1920. Serial No. 127,181. PUBLISHED MAY 25, 1920.

134,351. CANDIES. CREAM PRODUCTS CO., Peoria, Ill.
Filed March 1, 1920. Serial No. 129,050. PUBLISHED MAY 25, 1920.

134,352. CANDIES. CREAM PRODUCTS CO., Peoria, Ill.
Filed March 1, 1920. Serial No. 129,051. PUBLISHED MAY 25, 1920.

134,353. SEWING-COTTON. DE LUX THREAD CORP., New York, N. Y.
Filed April 17, 1920. Serial No. 131,260. PUBLISHED MAY 25, 1920.

134,354. CANNED VEGETABLES—NAMELY, OKRA. DIXIE FRUIT PRODUCTS CORPORATION, New York, N. Y.
Filed March 3, 1920. Serial No. 129,170. PUBLISHED MAY 18, 1920.

134,355. SUN-SHIELDS FOR AUTOMOBILES. HENRY J. DOYLE, Lyndhurst, N. J.
Filed February 2, 1920. Serial No. 127,853. PUBLISHED MAY 18, 1920.

134,356. ICE-CREAM AND BUTTER. DULUTH CREAMERY & PRODUCE COMPANY, Duluth, Minn.
Filed February 21, 1920. Serial No. 128,730. PUBLISHED MAY 11, 1920.

134,357. CANDIES. WILLIAM A. EASTERDAY, Washington, D. C.
Filed February 24, 1920. Serial No. 128,770. PUBLISHED MAY 18, 1920.

134,358. SWINGLETREES, DOUBLETREES, AND TRIPLETREES AND FOUR-HORSE EVENERS FOR VEHICLES AND SWINGLETREES FOR FARM IMPLEMENTS. THE FARM EQUIPMENT CO., Baltimore Md.
Filed December 31, 1919. Serial No. 126,681. PUBLISHED MAY 25, 1920.

134,359. KNOCKDOWN, READY-CUT, AND PORTABLE GARAGES, ANIMAL AND POULTRY HOUSES, AND TRACTOR-HOUSES, SELF-FEEDERS OR HOPPERS FOR STOCK AND POULTRY, PORTABLE CORN-CRIBS, AND AUTOMATIC FEEDERS. THE FARM EQUIPMENT CO., Baltimore, Md.
Filed December 31, 1919. Serial No. 126,684. PUBLISHED MAY 25, 1920.

134,360. PUDDING-POWDER. WILLIAM J. FIKES, St. Louis, Mo.
Filed March 16, 1920. Serial No. 129,780. PUBLISHED MAY 25, 1920.

134,361. FERTILIZERS. THE FISHERIES PRODUCTS CO., INC., New York, N. Y.
Filed January 26, 1920. Serial No. 127,587. PUBLISHED MAY 25, 1920.

134,362. CANNED SHRIMP. C. B. FOSTER, Biloxi, Miss.
Filed May 29, 1916. Serial No. 95,518. PUBLISHED MAY 18, 1920.

134,363. SALVES AND OINTMENTS FOR TREATMENT OF THE HUMAN SKIN. PHILIP FUCHS, New York, N. Y.
Filed November 26, 1919. Serial No. 125,324. PUBLISHED APRIL 27, 1920.

134,364. LEATHER SHOES. FRITZ-RICHARDS COMPANY, Lynchburg, Va.
Filed January 21, 1920. Serial No. 127,428. PUBLISHED MAY 11, 1920.

134,365. SHAVING-BRUSHES. GEM SAFETY RAZOR CORPORATION, Brooklyn, N. Y.
Filed February 25, 1920. Serial No. 128,886. PUBLISHED MARCH 23, 1920.

134,366. ARTIFICIAL ICE. GENERAL NECESSITIES CORPORATION, Detroit, Mich.
Filed October 17, 1919. Serial No. 123,889. PUBLISHED MAY 18, 1920.

134,367. CITRUS FRUITS—NAMELY, FRESH ORANGES, FRESH LEMONS, AND FRESH GRAPEFRUIT. GOLDENWEST CITRUS ASSN., Tustin, Calif.
Filed May 22, 1918. Serial No. 111,107. PUBLISHED MAY 18, 1920.

134,368. FRUITS—NAMELY, CONCORD GRAPES IN THEIR NATURAL STATE. FRED L. GRANGER, Benton Harbor, Mich.
Filed February 19, 1920. Serial No. 128,600. PUBLISHED MAY 18, 1920.

134,369. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. HAAS, BARUCH & CO., Los Angeles, Calif.
Filed January 6, 1920. Serial No. 126,857. PUBLISHED MAY 18, 1920.

134,370. ANTISEPTIC AND ASTRINGENT. EUGENIA GOBEIL HANCOCK, New York, N. Y.
Filed January 16, 1920. Serial No. 127,213. PUBLISHED MAY 25, 1920.

134,371. ANIMAL FOODS, PARTICULARLY BIRD-SEED. RALPH T. HARDING, Kansas City, Mo.
Filed March 11, 1920. Serial No. 129,546. PUBLISHED MAY 18, 1920.

134,372. CHICKEN-WATERERS AND CHICKEN-COOPS. HARPER & MCINTIRE COMPANY, INCORPORATED, Ottumwa, Iowa.
Filed April 9, 1920. Serial No. 130,892. PUBLISHED MAY 18, 1920.

134,373. BICYCLES. HARPER & MCINTIRE COMPANY, INCORPORATED, Ottumwa, Iowa.
Filed April 9, 1920. Serial No. 130,896. PUBLISHED MAY 18, 1920.

134,374. CANDIES. THE HEKMAN & GOODMAN CANDY COMPANY, Denver, Colo.
Filed November 4, 1919. Serial No. 124,522. PUBLISHED MAY 25, 1920.

134,375. SOLUBLE AND POWDERED STABILIZING AGENT TO BE EMPLOYED IN THE MANUFACTURE OF ICE-CREAM. B. HELLER AND COMPANY, Chicago, Ill.
Filed December 18, 1919. Serial No. 126,214. PUBLISHED MAY 25, 1920.

134,376. ICE-CREAM, FROZEN CUSTARDS AND ICES. THE HENDLER CREAMERY COMPANY, Baltimore, Md.
Filed March 11, 1920. Serial No. 129,549. PUBLISHED MAY 11, 1920.

134,377. HOPS. GEO. HERRMANN COMPANY, San Francisco, Calif.
Filed February 24, 1920. Serial No. 128,843. PUBLISHED MAY 18, 1920.

134,378. VEHICLE-SPRINGS AND SPRING-PLATES AND SPRING-LEAVES FOR SUCH SPRINGS. HIGGINS SPRING & AXLE COMPANY, Racine, Wis.
Filed February 11, 1920. Serial No. 128,284. PUBLISHED MAY 25, 1920.

134,379. NATURAL AND ARTIFICIAL SILK THREADS AND YARNS. THE H. K. H. SILK CO. OF NEW YORK, INC., New York, N. Y.
Filed March 31, 1920. Serial No. 130,416. PUBLISHED MAY 18, 1920.

134,380. NATURAL AND ARTIFICIAL SILK THREADS AND YARNS. THE H. K. H. SILK CO. OF NEW YORK, INC., New York, N. Y.
Filed March 31, 1920. Serial No. 130,417. PUBLISHED MAY 18, 1920.

134,381. SOAPS AND WASHING-POWDERS. A. HOFFNER & SONS, Buffalo, N. Y.
Filed February 2, 1920. Serial No. 127,859. PUBLISHED MAY 25, 1920.

134,382. GAS SOLDERING-FURNACES, SOFT-METAL FURNACES, BURNERS, AND TORCHES. CHARLES A. HONES, INC., Brooklyn, N. Y.
Filed April 7, 1920. Serial No. 130,759. PUBLISHED MAY 18, 1920.

134,383. RUBBER CUSHION AND PNEUMATIC TIRES AND TUBES AND TIRE-REPAIR PATCHES OR REINFORCEMENTS. HOOD RUBBER COMPANY, Watertown, Mass.
Filed July 6, 1918. Serial No. 111,965. PUBLISHED DECEMBER 31, 1918.

134,384. RUBBER VEHICLE-TIRES. HOOD TIRE CO. INC., Watertown, Mass.
Filed January 16, 1919. Serial No. 115,221. PUBLISHED OCTOBER 7, 1919.

134,385. SELF-GENERATING GAS-BURNERS. HYCO FUEL PRODUCTS CORPN., New York, N. Y.
Filed January 8, 1920. Serial No. 126,933. PUBLISHED MAY 18, 1920.

134,386. CANE-SYRUP FOR TABLE USE. MALONE & HYDE, Memphis, Tenn.
Filed March 14, 1918. Serial No. 109,564. PUBLISHED MAY 18, 1920.

134,387. COTTON PIECE GOODS. HYMAN BAUMAN & Co., New York, N. Y.
Filed February 10, 1920. Serial No. 128,197. PUBLISHED MAY 4, 1920.

134,388. MARBLE AND STONE. C. D. JACKSON & CO. INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,551. PUBLISHED MAY 4, 1920.

134,389. MARBLE AND STONE. C. D. JACKSON & CO. INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,552. PUBLISHED MAY 4, 1920.

134,390. MARBLE AND STONE. C. D. JACKSON & CO. INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,553. PUBLISHED MAY 4, 1920.

134,391. MARBLE AND STONE. C. D. JACKSON & CO. INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,554. PUBLISHED MAY 4, 1920.

134,392. MARBLE AND STONE. C. D. JACKSON & CO. INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,555. PUBLISHED MAY 4, 1920.

134,393. MARBLE AND STONE. C. D. JACKSON & CO. INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,556. PUBLISHED MAY 4, 1920.

134,394. MARBLE AND STONE. C. D. JACKSON & CO. INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,557. PUBLISHED MAY 4, 1920.

134,395. MARBLE AND STONE. C. D. JACKSON & CO. INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,558. PUBLISHED MAY 4, 1920.

134,396. MARBLE AND STONE. C. D. JACKSON & CO. INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,559. PUBLISHED MAY 4, 1920.

134,397. MARBLE AND STONE. C. D. JACKSON & CO. INC., New York, N. Y.
Filed January 24, 1920. Serial No. 127,560. PUBLISHED MAY 4, 1920.

134,398. CANNED VEGETABLES, SLICED DRIED BEEF, JAM, LARD, COFFEE AND TEA, APPLE JELLY, AND CIDER VINEGAR. JOHNSON & MURRAY, INCORPORATED, Utica, Watertown, and Ogdensburg, N. Y.
Filed January 6, 1920. Serial No. 126,863. PUBLISHED MAY 18, 1920.

134,399. CANNED LYE, BLUING IN GLASS, AND AMMONIA IN GLASS. JOHNSON & MURRAY, INCORPORATED, Utica, Watertown, and Ogdensburg, N. Y.
Filed January 6, 1920. Serial No. 126,864. PUBLISHED MAY 4, 1920.

134,400. CANDIES. ROBERT A. JOHNSTON CO., Milwaukee, Wis.
Filed February 17, 1920. Serial No. 128,507. PUBLISHED MAY 18, 1920.

134,401. CHOCOLATE. KANDYKRAFT KORPORATION, New York, N. Y.
Filed March 6, 1920. Serial No. 129,327. PUBLISHED MAY 25, 1920.

134,402. CLEANING PREPARATIONS FOR ARTICLES OF STRAW AND SIMILAR MATERIALS. THE KLEENX COMPANY, Cleveland, Ohio.
Filed February 11, 1920. Serial No. 128,271. PUBLISHED MAY 18, 1920.

134,403. NON-INTOXICATING MALT BEVERAGES CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME, TO BE SOLD AS SOFT DRINKS. FRED KRUG PRODUCTS CO., Omaha, Nebr.
Filed July 9, 1917. Serial No. 104,935. PUBLISHED MAY 18, 1920.

134,404. AUTOMOBILES. LA FAYETTE MOTORS COMPANY, Indianapolis, Ind.
Filed January 19, 1920. Serial No. 127,292. PUBLISHED MAY 4, 1920.

134,405. AUTOMOBILES. LA FAYETTE MOTORS COMPANY, Indianapolis, Ind.
Filed January 19, 1920. Serial No. 127,293. PUBLISHED MAY 4, 1920.

134,406. SUGAR, AMERICAN WHEAT-FLOUR, AND TEA. LAMBORN & CO., New York, N. Y.
Filed June 29, 1918. Serial No. 111,881. PUBLISHED MAY 18, 1920.

134,407. TOILET CREAM FOR THE SKIN. LAPEYRE BROTHERS, Great Falls, Mont.
Filed January 20, 1920. Serial No. 127,373. PUBLISHED MAY 4, 1920.

134,408. CANDY. JOHN LAUG, Lakewood, N. J.
Filed January 20, 1920. Serial No. 127,374. PUBLISHED MAY 18, 1920.

134,409. BOOTS AND SHOES OF LEATHER AND FABRIC, LEATHER AND RUBBER, AND RUBBER AND FABRIC. LYNCHBURG SHOE COMPANY, Lynchburg, Va.
Filed February 17, 1920. Serial No. 128,511. PUBLISHED MAY 18, 1920.

134,410. WATERING-FOUNTAINS FOR POULTRY AND FEED-HOPPERS FOR STOCK AND POULTRY. W. A. MCCOLLOUGH & SONS, INC., Webster City, Iowa.
Filed July 28, 1919. Serial No. 121,008. PUBLISHED MAY 11, 1920.

134,411. SIDE-LEATHER. PERKINS & MCNEELY, Philadelphia, Pa.
Filed November 22, 1919. Serial No. 125,195. PUBLISHED MAY 18, 1920.

134,412. FERTILIZERS. ALLAN G. MACDONELL, New York, N. Y.
Filed November 4, 1919. Serial No. 124,529. PUBLISHED MAY 25, 1920.

134,413. CANDIES AND CHOCOLATES. MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed March 13, 1920. Serial No. 129,639. PUBLISHED MAY 18, 1920.

134,414. FRESH FRUITS AND VEGETABLES. MEXICO ARIZONA TRADING COMPANY, Nogales, Ariz.
Filed December 1, 1919. Serial No. 125,468. PUBLISHED MAY 18, 1920.

134,415. AUTOMOBILE-SPRINGS. JOHN H. MOBERG, Chicago, Ill.
Filed March 10, 1920. Serial No. 129,511. PUBLISHED MAY 25, 1920.

134,416. MALT EXTRACTS AND CONCENTRATED FOOD-POWDERS AND FOODS COMPOSED PRINCIPALLY OF MALT EXTRACT, MILK, AND EGGS. ALBERT E. MURDOCK, South Hingham, Mass.
Filed November 20, 1919. Serial No. 125,117. PUBLISHED MAY 25, 1920.

134,417. SWEET POTATOES IN THEIR NATURAL STATE. MUTUAL SERVICE CORPORATION, New York, N. Y.
Filed February 19, 1920. Serial No. 128,609. PUBLISHED MAY 18, 1920.

134,418. SILK-FILLED CRÊPE-DE-CHINE PIECE GOODS. NATHAN AND COHEN CO., INC., New York, N. Y.
Filed March 15, 1920. Serial No. 129,735. PUBLISHED MAY 18, 1920.

134,419. LICORICE CONFECTION. NATIONAL LICORICE COMPANY, Brooklyn, N. Y.
Filed November 20, 1919. Serial No. 125,119. PUBLISHED MAY 25, 1920.

134,420. CHEMICAL TABLETS FOR INCREASING THE EFFICIENCY OF GASOLENE. IRVIN RAWLEY NEHER, Ross, Mich.
Filed January 20, 1920. Serial 127,388. PUBLISHED MAY 4, 1920.

134,421. YARN. CARROLL D. NEWELL, New York, N. Y.
Filed February 3, 1920. Serial No. 127,930. PUBLISHED MAY 25, 1920.

134,422. YARN OF WORSTED, MOHAIR, WOOL, SILK, OR COTTON. NONOTUCK SILK COMPANY, Northampton, Mass.
Filed October 8, 1919. Serial No. 123,554. PUBLISHED MAY 25, 1920.

134,423. WHEAT-FLOUR. OMAHA FLOUR MILLS CO., Omaha, Nebr.
Filed March 13, 1920. Serial No. 129,648. PUBLISHED MAY 18, 1920.

134,424. WRITING-TABLETS, MAILING-ENVELOPS, PAPETERIES, AND WRITING-PAPERS. OSBORN PAPER CO., Marion, Ind.
Filed March 4, 1920. Serial No. 129,242. PUBLISHED MAY 18, 1920.

134,425. STEAM-BOILERS. F. A. PATRICK & CO., Duluth, Minn.
Filed April 9, 1920. Serial No. 130,928. PUBLISHED MAY 18, 1920.

134,426. DOUGHNUTS AND COOKIES. PORTERFIELD BAKING COMPANY, Indianapolis, Ind.
Filed March 22, 1920. Serial No. 130,053. PUBLISHED MAY 11, 1920.

134,427. OLIVE-OIL. JOSÉ SANCHIZ DE QUESADA, Madrid, Spain.
Filed May 16, 1919. Serial No. 118,542. PUBLISHED MAY 18, 1920.

134,428. ICE-CREAM AND CHARLOTTE RUSSE. THE REID ICE CREAM COMPANY, New York, N. Y.
Filed February 12, 1920. Serial No. 128,322. PUBLISHED MAY 18, 1920.

134,429. ICE-CREAM. THE REID ICE CREAM COMPANY, New York. N. Y.
Filed February 12, 1920. Serial No. 128,323. PUBLISHED MAY 18, 1920.

134,430. MEDICINAL TREATMENT FOR PYORRHEA. JOHN W. ROBB, Philadelphia, Pa.
Filed December 31, 1919. Serial No. 126,679. PUBLISHED MAY 11, 1920.

134,431. WHEAT-FLOUR. ROBIN HOOD MILLS, LIMITED, Moose Jaw, Saskatchewan, Canada.
Filed December 27, 1919. Serial No. 126,542. PUBLISHED MAY 18, 1920.

134,432. GAS-HEATERS. JACOB I. ROBIN, New York, N. Y.
Filed January 21, 1920. Serial No. 127,448. PUBLISHED MAY 4, 1920.

134,433. FRESH ONIONS, POTATOES, TURNIPS, AND CARROTS. SAMUEL ROSENBLUM, New York, N. Y.
Filed May 8, 1919. Serial No. 118,276. PUBLISHED MAY 25, 1920.

134,434. OINTMENT FOR PROMOTING THE GROWTH OF AND DARKENING THE EYEBROWS AND EYELASHES. GEORGE W. ROSS, New York, N. Y.
Filed January 23, 1920. Serial No. 127,523. PUBLISHED MAY 4, 1920.

134,435. CANNED FRUITS—NAMELY, CANNED PEACHES AND CANNED LOGANBERRIES; CANNED VEGETABLES—NAMELY, CANNED WHITE WAX-BEANS—AND CANNED FISH—NAMELY, CANNED SALMON. A. RUPERT COMPANY, INC., Portland, Oreg.
Filed December 15, 1919. Serial No. 126,064. PUBLISHED MAY 25, 1920.

134,436. INCENSE. SATISH CHANDRA GHOSH, Chicago, Ill.
Filed December 29, 1919. Serial No. 126,575. PUBLISHED MAY 4, 1920.

134,437. CAPPING-SKINS FOR STOPPERED BOTTLES. JULIUS SCHMID, INCORPORATED, New York, N. Y.
Filed November 29, 1919. Serial No. 125,438. PUBLISHED MAY 11, 1920.

134,438. OIL BURNERS AND HEATERS, SUCH AS EMPLOYED IN INCUBATORS, BROODERS, AND OIL-STOVES. HENRY M. SHEER, Quincy, Ill.
Filed April 29, 1919. Serial No. 117,995. PUBLISHED MAY 25, 1920.

134,439. FIELD-SEEDS. SOUTHWEST FLOUR & FEED COMPANY, Glendale, Ariz.
Filed January 29, 1920. Serial No. 127,742. PUBLISHED MAY 18, 1920.

134,440. AUTOMOBILES USED FOR PLEASURE AND IN BUSINESS AND MOTOR-TRUCKS. STANWOOD MOTOR CAR COMPANY, St. Louis, Mo.
Filed March 5, 1920. Serial No. 129,290. PUBLISHED MAY 25, 1920.

134,441. NON-ALCOHOLIC NON-INTOXICATING BEVERAGE CONTAINING MALT AND CEREAL, CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME, AND SOLD AS A SOFT DRINK. ST. LOUIS BEVERAGE COMPANY, St. Louis, Mo.
Filed December 15, 1919. Serial No. 126,072. PUBLISHED MAY 18, 1920.

134,442. CITRUS FRUITS—NAMELY, ORANGES, GRAPE-FRUIT, LEMONS, LIMES, AND TANGERINES. STRIPED CITRUS PACKING CO., Fort Myers, Fla.
Filed December 20, 1918. Serial No. 114,755. PUBLISHED MAY 25, 1920.

134,443. CUTTING-OILS. D. A. STUART & CO., Chicago, Ill.
Filed February 13, 1920. Serial No. 128,374. PUBLISHED MAY 18, 1920.

134,444. CANDY. SWEET CANDY CO., Salt Lake City, Utah.
Filed March 19, 1920. Serial No. 129,954. PUBLISHED MAY 25, 1920.

134,445. COFFEE. JOHN R. THOMPSON CO., Chicago, Ill.
Filed March 23, 1920. Serial No. 130,110. PUBLISHED MAY 25, 1920.

134,446. MEDALS OF BASE METALS AND ART-BRONZES, ETCHED OR ENGRAVED METAL PLATES FROM WHICH BOOK-PLATES ARE STRICKEN OFF. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,230. PUBLISHED MAY 25, 1920.

134,447. MEDALS OF BASE METALS AND ART-BRONZES, ETCHED OR ENGRAVED METAL PLATES FROM WHICH BOOK-PLATES ARE STRICKEN OFF. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,231. PUBLISHED MAY 25, 1920.

134,448. TABLE-GLASSWARE. TIFFANY AND COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,245. PUBLISHED MAY 4, 1920.

134,449. TABLE-GLASSWARE. TIFFANY AND COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,247. PUBLISHED MAY 4, 1920.

134,450. NON-ELECTRIC LAMPS, CANDLESTICKS, AND CANDELABRA. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,248. PUBLISHED MAY 4, 1920.

134,451. NON-ELECTRIC LAMPS, CANDLESTICKS, AND CANDELABRA. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,249. PUBLISHED MAY 4, 1920.

134,452. PURE CULTURE OF NITROGEN-GATHERING BACTERIA FOR INOCULATING SEEDS PRIOR TO SOWING. MAX TRUMPER, Montgomery, Ala.
Filed February 16, 1920. Serial No. 128,477. PUBLISHED MAY 25, 1920.

134,453. CANNED SARDINES. WILLIAM UNDERWOOD COMPANY, Boston, Mass.
Filed March 10, 1920. Serial No. 129,518. PUBLISHED MAY 18, 1920.

134,454. NON-FERROUS ALLOYS. UNITED AMERICAN METALS CORPORATION, Brooklyn, N. Y.
Filed April 10, 1920. Serial No. 130,996. PUBLISHED JUNE 22, 1920.

134,455. SNAP-FASTENERS. WALDES & CO., INC., Long Island City, N. Y.
Filed February 26, 1920. Serial No. 128,947. PUBLISHED MAY 4, 1920.

134,456. JELLIES, JAM, AND FRUIT PRESERVES. Estate of GEORGE E. WALES, Newton Center, Mass.
Filed March 6, 1919. Serial No. 116,355. PUBLISHED MAY 25, 1920.

134,457. COTTON PIECE GOODS. WARNER-GODFREY CO., New York, N. Y.
Filed February 18, 1920. Serial No. 128,576. PUBLISHED MAY 4, 1920.

134,458. CERTAIN NAMED TOILET PREPARATIONS. NORTHAM WARREN CORPORATION, New York, N. Y.
Filed July 11, 1918. Serial No. 112,082. PUBLISHED SEPTEMBER 24, 1918.

134,459. COTTON PIECE GOODS. WATTS, STEBBINS & CO., New York, N. Y.
Filed March 1, 1920. Serial No. 129,115. PUBLISHED MAY 4, 1920.

134,460. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,022. PUBLISHED JUNE 1, 1920.

134,461. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,975. PUBLISHED JUNE 1, 1920.

134,462. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,976. PUBLISHED JUNE 1, 1920.

134,463. MONTHLY PUBLICATION. THE WERTHLIN-MANN CO., Cincinnati, Ohio.
Filed December 20, 1919. Serial No. 126,298. PUBLISHED MARCH 2, 1920.

134,464. TENTS. JOSEPH H. WITTMANN, Kansas City, Mo.
Filed January 9, 1920. Serial No. 126,981. PUBLISHED MAY 25, 1920.

134,465. OLEOMARGARIN. WONDER-NUT FOOD PRODUCTS COMPANY, Jefferson, Wis.
Filed March 19, 1920. Serial No. 129,959. PUBLISHED MAY 11, 1920.

134,466. OLEOMARGARIN. WONDER-NUT FOOD PRODUCTS COMPANY, Jefferson, Wis.
Filed March 19, 1920. Serial No. 129,960. PUBLISHED MAY 11, 1920.

134,467. OLEOMARGARIN. WONDER-NUT FOOD PRODUCTS COMPANY, Jefferson, Wis.
Filed March 19, 1920. Serial No. 129,961. PUBLISHED MAY 11, 1920.

134,468. BREAD. DANIEL P. WOOLLEY, New York, N. Y.
Filed February 19, 1920. Serial No. 128,631. PUBLISHED MAY 18, 1920.

134,469. BREAD. DANIEL P. WOOLLEY, New York, N. Y.
Filed February 19, 1920. Serial No. 128,633. PUBLISHED MAY 18, 1920.

134,470. BLEACHED GUM-SHELLAC. WM. ZINSSER & CO., INC., New York, N. Y.
Filed February 10, 1920. Serial No. 128,262. PUBLISHED MAY 18, 1920.

LABELS

REGISTERED AUGUST 31, 1920.

22,041.—*Title:* "SURETY." (For Canned Sardines.) AMERICAN-MEXICAN PACKING COMPANY, Wilmington, Calif. Filed March 22, 1920.

22,042.—*Title:* "B & G MANUFACTURERS & DISTRIBUTORS WIRE AND SHEET PRODUCTS." (For Metal Wire and Sheet-Metal Products. B & G WIRE PRODUCTS Co., Philadelphia, Pa. Filed December 4, 1919.

22,043.—*Title:* "BROWN'S INDIAN ROOT HAIR TONIC." (For a Liquid Hair-Tonic.) ANTHONY BROWN, Philadelphia, Pa. Filed April 3, 1919.

22,044.—*Title:* "REEL." (For Chocolate Cream Drops.) BUHR, PFAFF & Co., Cincinnati, Ohio. Filed March 19, 1920.

22,045.—*Title:* "BURGESS UNI-CELS." (For Electric Batteries.) BURGESS BATTERY COMPOUND, Madison, Wis. Filed March 16, 1920.

22,046.—*Title:* "CANDY CRAFT CANDIES FOR KIDDIES." (For Candies.) THE CANDY CRAFT SHOPS, INC., Chicago, Ill. Filed April 15, 1920.

22,047.—*Title:* "CANDY CRAFT POCKET CANDIES." (For Fruit Tablets.) THE CANDY CRAFT SHOPS, INC., Chicago, Ill. Filed April 15, 1920.

22,048.—*Title:* "TAFFY ON THE BROOMSTICK." (For Taffy.) THE CANDY CRAFT SHOPS, INC., Chicago, Ill. Filed April 15, 1920.

22,049.—*Title:* "CAMPFIRE." (For Marshmallows.) THE CAMPFIRE COMPANY, Milwaukee, Wis. Filed April 8, 1920.

22,050.—*Title:* "LIBERTY COFFEE." (For Coffee.) GUST CHILLIRAS & Co., Canton, Ohio. Filed March 19, 1920.

22,051.—*Title:* "RIVERSIDE VIRGINIA." (For Cigarettes.) CONSTANTINE TOBACCO CORPORATION, New York, N. Y. Filed March 26, 1920.

22,052.—*Title:* "MARATHON." (For Cigarettes.) CONSTANTINE TOBACCO CORPORATION, New York, N. Y. Filed April 2, 1920.

22,053.—*Title:* "COSMIC." (For Cooked Vegetables—Namely, Vegetarian Beans.) COSMIC PRODUCTS CORPORATION, New York, N. Y. Filed October 28, 1919.

22,054.—*Title:* "A RULER." (For Insect-Destroyer.) WILLIAM H. DECHANT, Toledo, Ohio. Filed November 20, 1919.

22,055.—*Title:* "BRINGING UP FATHER GAME." (For a Game-Board.) EMBEE DISTRIBUTING COMPANY, New York, N. Y. Filed March 31, 1920.

22,056.—*Title:* "RAYN-SNO." (For a Chemically-Treated Fabric for Cleaning Windshields.) F & F Manufacturing Co., Boston, Mass. Filed April 1, 1920.

22,057.—*Title:* "FLOSSIES." (For Candy Lozenges.) THE FLOSSMINT COMPANY, Spokane, Wash. Filed November 12, 1919.

22,058.—*Title:* "TANDEM TEAM." (For Cigars.) WALTER M. FOX, Napoleon, Ohio. Filed March 18, 1920.

22,059.—*Title:* "GARCO GASKETTE ROLL." (For Asbestos Sheet-Packing.) GENERAL ASBESTOS & RUBBER COMPANY, Charleston, S. C. Filed March 22, 1920.

22,060.—*Title:* "ETHEL-OIDS ANTISEPTICS." (For an Antiseptic.) FREDRICK GLASS, Detroit, Mich. Filed September 22, 1919.

22,061.—*Title:* "WENNERSTEN'S MALTHOP, THE HOME FOOD-BEVERAGE." (For Canned Extracts.) HENNING WENNERSTEN INCORPORATED, Chicago, Ill. Filed March 6, 1920.

22,062.—*Title:* "WENNERSTEN'S MALTHOP, THE HOME FOOD-BEVERAGE." (For Canned Extracts.) HENNING WENNERSTEN INCORPORATED, Chicago, Ill. Filed March 29, 1920.

22,063.—*Title:* "JINJA-JAC." (For Ginger-Ale—Namely, Jinja-Jac.). JACKSON BREWING COMPANY, New Orleans, La. Filed November 24, 1919.

22,064.—*Title:* "KILLIAN'S KUALITY SUPREME PEARS." (For Pears.) W. H. KILLIAN Co., Baltimore, Md. Filed April 8, 1920.

22,065.—*Title:* "LAWRENCE'S." (For Canned Sardines.) THE LAWRENCE CANNING COMPANY, Rockland, Me. Filed March 22, 1920.

22,066.—*Title:* "BLUE BELL GINGER ALE." (For a Ginger-Ale Beverage.) LEBANON SPRINGS WATER Co., INC., Lebanon Springs, N. Y. Filed December 23, 1919.

22,067.—*Title:* "CLINTON HAND MADE." (For Cigars.) VICTOR LEVOR, Attica, Ind. Filed March 29, 1920.

22,068.—*Title:* "LIPTON'S INSTANT COCOA." (For Cocoa.) THOMAS J. LIPTON, INC., Hoboken, N. J.; Chicago, Ill., and San Francisco, Calif. Filed March 27, 1920.

22,069.—*Title:* "MAHLSTEDT MULTICOLOR PRESS." (For Printing-Presses.) LISENBY MANUFACTURING COMPANY, Fresno, Calif. Filed September 15, 1919.

22,070.—*Title:* "LABOR SAVER." (For Soap.) LOUISVILLE FOOD PRODUCTS Co., Louisville, Ky. Filed April 1, 1920.

22,071.—*Title:* "JOYSOAP." (For Soap.) LOUISVILLE FOOD PRODUCTS Co., Louisville, Ky. Filed April 1, 1920.

22,072.—*Title:* "LA BELLA." (For Musical-Instrument Strings Made of Gut.) E. & O. MARI, Winfield Junction, N. Y. Filed March 24, 1920.

22,073.—*Title* "GRAPE-'O'." (For a Beverage.) MINCK BROS. & Co. INC., Brooklyn, N. Y. Filed March 29, 1920.

22,074.—*Title:* "MILK CHOCOLATES." (For Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed March 20, 1920.

22,075.—*Title:* "DOUBLE STRENGTH." (For Hard Candies—Namely, Hoarhound.) A. G. MORSE Co., Chicago, Ill. Filed December 22, 1919.

22,076.—*Title:* "MUTUAL." (For Paints and Varnishes.) MUTUAL PAINT COMPANY, St. Paul, Minn. Filed September 29, 1919.

22,077.—*Title:* "NARTZ'S STERLING BREAD." (For a Wrapper for Bread-Loaves.) LOUIS NARTZ, Sioux City, Iowa. Filed April 7, 1920.

22,078.—*Title:* "DEHYDRATED SOUP NOCAN TASTE." (For Dehydrated Soups.) NOCAN SOUP COMPANY, Hoboken, N. J. Filed September 18, 1919.

22,079.—*Title:* "GERMA KIDNEY TABLETS." (For Kidney-Tablets.) A. W. O'BRIAN & COMPANY, Hutchinson, Kans. Filed September 4, 1919.

22,080.—*Title:* "REFINITE RIVAL OF THE CLOUDS." (For Water-Softening Material.) THE REFINITE COMPANY, Omaha, Nebr. Filed April 3, 1920.

22,081.—*Title:* "REMAR BREAD." (For Bread.) REMAR COMPANY, San Francisco, Calif. Filed June 9, 1919.

22,082.—*Title:* "VALLEY FORGE SPECIAL." (For Lager-Beer.) ADAM SCHEIDT BREWING COMPANY, Norristown, Pa. Filed December 12, 1919.

22,083.—*Title:* "ROXANA GINGER CORDIAL." (For Ginger-Cordial.) SOUTHERN FOOD PRODUCTS Co., Cincinnati, Ohio. Filed April 10, 1920.

22,084.—*Title:* "SPARKS FLOUR." (For Self-Rising Flour.) SPARKS MILLING COMPANY, Alton, Ill., and Terre Haute, Ind. Filed September 26, 1919.

22,085.—*Title:* "DRINK MIXO." (For a Health-Drink Syrup.) EMIL E. STEINER, Everett, Wash. Filed April 26, 1919.

22,086.—*Title:* "DRINK STEINO." (For a Health-Drink Syrup.) EMIL E. STEINER, Everett, Wash. Filed May 22, 1919.

22,087.—*Title:* "DRINK VIVO." (For a Health-Drink Syrup.) EMIL E. STEINER, Everett, Wash. Filed May 22, 1919.

22,088.—*Title:* "LUMINETTE." (For Silk Piece Goods.) MAX STRAUSS, New York, N. Y. Filed April 2, 1920.

22,089.—*Title:* "MANHATTAN." (For Hosiery.) C. W. TAVES Co., Chicago, Ill. Filed April 3, 1920.

22,090.—*Title:* "THOMASON'S MOTOR LIFE." (For a Gas-Saver, Carbon-Remover, and Lubricant for Any Style of Gasolene Explosion-Engine.) J. A. THOMASON & Co., Atlanta, Ga. Filed November 15, 1919.

22,091.—*Title:* "13 SOAP UNLUCKY FOR DIRT." (For Soap.) THE UNITED AMERICAN TRADING Co., San Francisco, Calif. Filed April 14, 1920.

22,092.—*Title:* "MOR-HAIR." (For a Remedy for Dandruff.) JOSEPH WITTERER, New York, N. Y. Filed October 28, 1919.

PRINTS

REGISTERED AUGUST 31, 1920.

5,318.—*Title:* "HANDY CANDY MINTS." (For Candy Mints.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed June 4, 1919.

5,319.—*Title:* "VIRGINIA DARE 'AGREES WITH THE CONSTITUTION.'" (For Non-Intoxicating Wine.) GARRETT AND COMPANY, INCORPORATED, Penn Yan, N. Y. Filed October 10, 1919.

5,320.—*Title:* "EVERY BITE A DELIGHT." (For Cakes.) GRENNAN CAKE CORPORATION, Chicago, Ill.; Cleveland, Ohio; Detroit, Mich.; St. Paul and Minneapolis, Minn. Filed October 13, 1919.

5,321.—*Title:* "HARMLESS TO HUMANS—FATAL TO BUGS." (For Insecticide.) HOFSTRA MANUFACTURING COMPANY, Tulsa, Okla. Filed September 6, 1919.

5,322.—*Title:* "BUGS BREATHE IT AND DIE." (For Insecticide.) HOFSTRA MANUFACTURING COMPANY, Tulsa, Okla. Filed September 6, 1919.

5,323.—*Title:* "HOFSTRA—THE NATIONAL INSECTICIDE." (For Insecticide.) HOFSTRA MANUFACTURING COMPANY, Tulsa, Okla. Filed September 6, 1919.

5,324.—*Title:* "CHRISTMAS TREE LIGHTING OUTFITS." (For Lighting Outfits.) IMPORT SALES COMPANY, New York, N. Y. Filed October 4, 1919.

5,325.—*Title:* "MAKING A HIT!" (For Boys' Blouses.) THE KAYNEE COMPANY, Cleveland, Ohio. Filed April 3, 1920.

5,326.—*Title:* "NUREX TABBING COMPOUND." (For Tabbing Compounds.) THE LEE HARDWARE Co., Salina, Kans. Filed March 23, 1920.

5,327.—*Title:* "CARBON SHEETS FOR DUPLICATING CAUSE NO TROUBLE IN PADS BOUND BY NUREX." (For Tabbing Compounds.) THE LEE HARDWARE Co., Salina, Kans. Filed April 7, 1920.

5,328.—*Title:* "ARGUTO." (For Machinery-Bearings.) NORMAN MELLOR, Philadelphia, Pa. Filed December 26, 1919.

5,329.—*Title:* "NOVAK'S PILLS." (For Pills for the Treatment of Constipation.) JOHN NOVAK, Chicago, Ill. Filed April 5, 1920.

5,330.—*Title:* "THE PRICE OF A GOOD COMPLEXION." (For Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed April 8, 1920.

5,331.—*Title:* "MAKES YOUR HAIR LOOK ITS BEST." (For Mulsified Cocoanut-Oil Shampoo.) The R. L. WATKINS COMPANY, Cleveland, Ohio. Filed April 3, 1920.

5,332.—*Title:* "MAKES YOUR HAIR LOOK ITS BEST." (For Mulsified Cocoanut-Oil Shampoo.) The R. L. WATKINS COMPANY, Cleveland, Ohio. Filed April 3, 1920.

5,333.—*Title:* "MAKES YOUR HAIR LOOK ITS BEST." (For Mulsified Cocoanut-Oil Shampoo.) The R. L. WATKINS COMPANY, Cleveland, Ohio. Filed April 3, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

IMPERIAL MACHINE & FOUNDRY CORPORATION *v.* G. S. BLAKESLEE & Co.

Decided December 10, 1919.

[262 Fed. Rep. 419.]

1. PATENTS—INFRINGEMENT—EQUIVALENTS.

Claims of the Robinson patent, No. 809,582, for a vegetable-peeling machine, including a rotary disk having a horizontal striated portion, *Held* infringed by a peeling-machine having an abrading-disk of concrete or cement, the latter being considered as having striations set irregularly.

2. SAME—SAME—PRELIMINARY INJUNCTION.

While an application for preliminary injunction in a suit for infringement is addressed to the discretion of the court, where the validity of the patent has been sustained by many prior adjudications and infringement is clear its refusal would be error.

APPEAL from the District Court of the United States for the Southern District of New York.

Suit by the Imperial Machine & Foundry Corporation against G. S. Blakeslee & Co. From an order granting a preliminary injunction, defendant appeals. Affirmed.

Mr. A. H. Adams, Mr. J. L. Jackson, and *Mr. J. J. Kennedy* for the appellant.

Mr. A. Alexander Thomas for the appellee.

Before ROGERS, HOUGH, and MANTON, Circuit Judges.

MANTON, *Cir. J.:*

The appellee sued for an infringement of claims 1, 2, 3, and 4 of the Robinson patent, No. 809,582, for improvements on machines for peeling vegetables. A preliminary injunction was granted and the appellant appeals.

The patent has been held valid and infringed in previous litigations. (*Imperial Machine Co.* v. *Jacobus*, D. C., 212 Fed., 958, Judge Lacombe granted a preliminary injunction; *Imperial Machine Co.* v. *Streeter & Co.*, D. C., 214 Fed., 985, Judge Hazel; *Imperial Machine Co.* v. *Smith & McNeel*, 262 Fed., ——, Judge Hough, filed February, 1914; *Imperial Machine Co.* v. *Reinhold Mfg. Co.*, 262 Fed., ——, Judge Tuthill, filed July, 1919; *Imperial Machine Co.* v. *American Fruit Machinery Co.*, D. C., 212 Fed., 959, note, Judge McPherson; *Imperial Machine Co.* v. *Whyte*, 262 Fed., ——, Judge Learned Hand, filed December, 1918; *Imperial Machine Co.* v. *Rees et al.*, D. C., 261 Fed., 612, Judge Mayer, filed November, 1919.)

(1) However, since the validity of this patent is presented to this court for the first time, we have examined the patent and are of the opinion that it is valid. It discloses a practical machine for peeling vegetables in a deep mass. Indeed, we think it is a pioneer patent. The claims in suit are as follows:

1. In a device of the class described, an impelling and abrading member comprising a rotary disk composed of a horizontal flat striated portion and a raised portion extending from near the circumference inward and having two sides sloping down to the flat striated portion of said disk, substantially as described.

2. In a device of the class described, an impelling and abrading member comprising a rotary disk composed of a number of horizontal flat striated portions separated by raised portions at intervals extending from near the circumference inward, substantially as described.

3. In a device of the class described, an impelling and abrading member comprising a rotary disk composed of a horizontal flat striated portion and a rounded raised portion rising gradually from near the center toward the circumference, substantially as described.

4. In a device of the class described, an impelling and abrading member comprising a rotary disk composed of a horizontal flat striated portion, and a rounded raised portion bounded by two approximately radial edges extending from near the circumference inward and having a striated surface, substantially as described.

The machine of this patent consists of a cylinder, at the bottom of which is mounted a rotary disk having an abrading-surface providing for one or more rounded humps or raised portions which slope down from the circumference of the disk toward the main portion thereof. The function or purpose of the mounted or sloping humps is to produce agitation or circulation of the mass of vegetables whereby all of the vegetables are brought into contact with the abrading-disk. If it were not for the sloping humps or raised portions, the vegetables in contact with the disk would be ground away and would not have any means of agitation and circulation of the mass. The specifications point this out. They point out that, where the flat disk is used alone, there is a tendency to set up a rotary motion of the mass, wherein each individual soon settles down to a substantially fixed position in the moving mass. This would result in a wear on certain parts of each vegetable and retard the sufficient action on other parts. This hump-shaped portion, with its abrading-surface, forces the mass forward; and this, together with the movement of the disk,

faster than the mass is treated, make the raised parts act to turn over the vegetables next to the bottom, so as to bring different portions of each separate individual of the mass into contact with the different abrading-surfaces. It is in this it may be said to be a pioneer invention.

The inventor, in an affidavit, points this out and deposes that for more than thirteen years the Robinson construction has been successful, and that until this construction there was no successful vegetable-peeling machine on the market; and he declares that no machine is successful without an abrading-disk having raised portions. The appellant so constructs its machine as to have a disk with humps or raised portions with an abrading-surface.

A controversy is presented as to what is meant by a striated disk within the meaning of the claims. The appellee's disk has a carborundum surface, and the appellant's disk an abrading-surface of cement or concrete. This is said to be such a difference in construction as to negative the claim that the appellant infringes. The specification of the patent states that the abrading-surface may be made of a variety of material such as cast-iron, glass, earthenware, and the inventor says that he—

> is not limited to any specific arrangement of the striations, and that a variety of methods of striation will be within the spirit of this invention.

In order to obtain efficient rubbing points or ridges, there is no need for any geometrical or symmetrical arrangement, nor is it needed to successfully do the work of peeling. It is plain that exactly the same purpose is accomplished in precisely the same way, if the points or ridges be set irregularly. This is true in the disk of both the appellee and appellant. A surface of carborundum or concrete is a striated surface.

Funk & Wagnell's *New Standard Dictionary* defines the noun "stria"—curved, crooked, and intermittent gouges, of irregular depth and width and rough definition, of a certain rock-surface, sometimes due to abrasions by icebergs. It would therefore seem that the appellant's abrading-surface comes within the appellee's claims. The appellant's disk, with its abrading-surface, has a pair of rounded humps or raised portions so arranged as to be diametrically opposite and sloping downward from the circumference of the disk to the flat abrading-surface.

We are of the opinion that the appellant's rotary disk has an impelling and abrading member in a vegetable-peeling machine, which member is composed of a flat horizontal raised portion, and a raised portion extending from near the circumference inward and having two sides sloping down to the flat striated portion of the disk, thus coming within the reading of claim 1.

The appellant's disk is composed of a number of horizontally-flat striated portions, separated by raised portions at intervals extending from the circumference inward. The appellant's disk, as thus striated, comes within the phrase of claim 2. The appellant's has an impelling and abrading disk composed of the horizontally-flat striated or abrading portion, and has a rounded raised portion rising gradually from near the center toward the circumference, and it the kind of construction referred to in claim 3. Appellant's disk has a rounded raised portion, bounded by two approximately radial edges extending from near the circumference inward and having a striated surface, thus coming within the description of claim 4.

The defense that "striated" does not mean a concrete abrading-surface is not well founded. This disk, as constructed, has an abrading, impelling, and turning function. It permits of dealing successfully with a deep mass of vegetables. In other machines, but shallow layers could be dealt with. The result obtained here does not grind or bruise the vegetables, but confines its action to removing the thin outer layer of skin, and leaves the surface of the vegetable comparatively smooth, instead of pitted or hacked. Such advantages have not before been found in machines of this type, and this invention marks an advance in the art. In other words, the feature of the invention here is in the abrading-surface having rounded humps or raised portions to produce the necessary agitation and circulation of the vegetables, without which a machine of this character has been found not practical.

Such a result having been obtained, we are of the opinion that the inventor is entitled to a reasonable range of equivalents, and it would be well within such range to coat the disk with carborundum. When such a coating is accomplished, striations are formed, although the lines are broken and irregular. The variety of methods and striations would permit of such construction. (*National Hollow Brake-Beam Co.*, v. *Interchangeable Brake-Beam Co.*, 106 Fed., 693; 45 C. C. A., 544; *Cimiotti Unhairing Co.* v. *American Unhairing Co.*, 115 Fed., 498; 53 C. C. A., 230; *Hinman* v. *Visible Milker Co.*, 239 Fed., 896; 153 C. C. A., 24.)

Nor do we find in the prior art any patent which anticipates the patent in suit.

In the Buist and Schmidt patent, No. 551,526, the patentees depend upon upright wings or partitions for agitation of the mass; but it is not the same kind of agitation produced by the humps of the patent in suit. The corrugations and abutting wings, and the other hard points in the inside of the machine, are intended to scrape the skin off the vegetables. There is no kind of agitation which causes the vegetables to circulate to change position, and thus afford different sides to the paring or abrasive surface.

In the Jaeger patent, No. 524,420, the inventor depends upon spring-rasps fastened to radial boards and arranged in concentric circles. It may be that the inventor's disk of rasps would impart a rolling or turning movement to the vegetables; but there is nothing to cause the necessary circulation of the mass. The rolling or turning of the vegetables is not enough: there must be circulation

of the vegetables, and this, so that, as each layer is peeled, the next layer is brought against the disk and the performance continued, until finally the entire mass has circulated from top to bottom. The construction of the patent in suit accomplishes this, but the Jaeger patent does not do so.

For the same reason the French patent to Harff, No. 234,485, cannot be said to anticipate the patent in suit.

In the patent to Kiepenheuer, No. 74,399, there is disclosed no abrading-disk but a contrivance of knives. A knife arrangement of this kind is expressly disclaimed in the patent in suit. It may be that it would simply cut and hack the vegetables to pieces, as claimed by the appellee. It has never been in successful operation.

We think, further, that this German patent to Kiepenheuer was intended to peel but a single layer of vegetables, as distinguished from the deep mass of vegetables. The knife-blades shown in Figure 12 in the patent are arranged and shaped differently from the sloping humps of both the appellee's and appellant's structure. The blocks extend in a circumferential direction along the edge of the disk, and slope downwardly toward and along the periphery of the disk, forming a circumferential pocket between the central and highest point of the blocks and the stationary wall. The humps of the disk of the appellee and appellant extend radially in with, and slope from, the circumference toward the center; the two sides also sloping toward the main portion of the disk. We do not think that this patent anticipated the patent in suit.

It is very significant that the appellant has copied the appellee's disk, rather than make use of the patents referred to, and which are said to constitute the art prior to the date of the patent in suit. If the appellant thinks that any of the devices or improvements or combinations are protected by any of these patents of the prior art, they may still use them, notwithstanding this patent, so that the enforcement and restraint of the injunction granted herein cannot injure them. On the other hand, the failure to enforce the injunction would deprive appellee of the benefits secured to it by this patent. (*Minn. Ry. Co.* v. *Barnett & Record Co.*, 257 Fed., 302; 168 C. C. A., 386.)

(2) Since the validity of the patent was sustained by many prior adjudications, it was proper for the district judge to grant the preliminary injunction. (*Edison Electric Light Co.* v. *Beacon Vacuum, etc., Co.*, C. C., 54 Fed., 678.) And while it is true that the application for a preliminary injunction was addressed to the discretion of the court, still the patent was frequently sustained, and there was undoubted authority, since the infringement appeared clear. To refuse to exercise that discretion to the detriment of the patentee would have been error. (*Searchlight Horn Co.* v. *Sherman Clay & Co.*, 214 Fed., 99; 130 C. C. A., 575; *Weber Electric Co.* v. *Cutler-Hammer Mfg. Co.*, 256 Fed., 31; 167 C. C. A., 303.)

We think the order below was properly granted, and it will be affirmed.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

H. D. SMITH & Co. *v.* PECK, STOW & WILCOX Co.

Decided December 10, 1919.

[262 Fed. Rep., 415.]

1. PATENTS—ANTICIPATION—ANALOGOUS ART.
   The Ward patent, No. 737,179, for a screw-driver, is not anticipated by a horseshoer's hoof-parer, by a carriage-trimmer's tool, by an ice-pick and meat-maul, or by a wrench, as none of them suggest the idea in their construction of being at all adapted to a tool utility by turning on its longitudinal axis. To adapt the old devices to the new function requires modification or changes.
2. SAME—INVENTION—TEST OF INVENTION.
   Whether a patented structure involves invention is a question of fact, and the determining factor is not whether the achievement was difficult or easy, but whether it has in point of fact given the world something of value that it did not have.
3. SAME—EVIDENCE OF INVENTION.
   The willingness of the public to pay more for a patented device than for other articles of that class is a demonstration of its substantial value, and the fact that defendant copied the structure and shape of the article shows that it, too, appreciated the value of the advance made.
4. SAME—DESIGN FOR SCREW-DRIVER NOT ORNAMENTAL.
   The Ward design patent, No. 37,213, for a design for a screw-driver, *Held* invalid, as it does not impart such a pleasing effect to the eye as to create beauty or attractiveness or to make it ornamental.

APPEAL from the District Court of the United States for the District of Connecticut.

Suit in equity by H. D. Smith & Co. against the Peck, Stow & Wilcox Company. Decree for complainant, and defendant appeals. Modified and affirmed.

For opinion below, see 258 Fed., 40.

Mr. H. E. Hart for the appellant.

Mr. Archibald Cox and *Mr. Henry E. Rockwell* for the appellee.

Before WARD, ROGERS, and MANTON, Circuit Judges.

MANTON, *Cir. J.:*

The appellee now owns, by assignment, Letters Patent No. 737,179, granted August 25, 1903, for a screw-driver, and Design Letters Patent No. 37,214, of November 8, 1904, for a design for the screw-driver. Both were issued to William S. Ward. The mechanical patent was considered by this court in an action wherein the present appellee was plaintiff and the Southington Manufacturing Company was defendant. (247 Fed., 342; 159 C. C. A., 436.) In that case, however, the plaintiff agreed, by stipulation, that the patent was valid, and therefore did not contest its validity for want of invention. The defenses offered in that litigation were non-infringement and invalidity because of anticipation. It was held there that there was nothing in the prior art like the combination of this article, to wit, the screw-driver, and the defendant failed on both of its defenses, to wit, the non-infringement and anticipation because of the prior art.

(1) In this case, the appellant is not bound by

such an admission, and therefore the question of whether or not the patent discloses invention is open to it. It has also offered in evidence patents which were not in the case of *Smith* v. *Southington Mfg. Co.*, and which it contends establishes anticipation because of prior date. Likewise the defense is interposed that evidence of prior use establishes anticipation. There is a denial of infringement of the patent by use of the structure which the appellee says infringes its patent.

The district judge held that, in view of the result in this court in the case of *Smith* v. *Southington Mfg. Co.*, *supra*, it was not incumbent upon him to do more than examine such patents offered in the prior art as were not considered by this court, and such new evidence as amplified or added to the claim of anticipation due to prior use. In this we think the learned district judge was correct. The mechanical patent provides for a new make of screw-driver. Screw-drivers have existed for a long time, but in this invention we believe that the inventor gave to the world a new and better screw-driver than it has had, and thus has moved the art forward. It consists of a combination of a particular structure and a particular shape. It consists of integral solid drop-forging beginning at the top of an oval, but having a flat hammer-face, and continuing into a flat handle-web, into which scales of an elliptical shape gradually decreasing in width are riveted, continuing into a conical tapering bolster, continuing into a round shaft, ending up in a flat blade; the handle portion being elliptical in the cross-section for the most part, but gradually merging with the conical bolster by a gentle taper into a circular tool-shank, thus providing a firm grasp, while facilitating a nice control by pressure of the finger and thumb upon the shank of the tool. There has been created for it a very substantial and large demand. It commands a high price for such a tool in the market. Its shape and handles provide for turning the tool on its elliptical axis.

Two important characteristics stand out as necessary for successful use by operators: (1) It should be of such a character that the blade may be inserted in the kerf of the screw as easily and certainly as possible; and (2) provide for the application of as much power as possible to turn it. Hand-power is applied, and the hand-grip must be attained by the shape upon which the hand rests and obtains control of the tool, and is brought to bear in the turning operation. The combination must have such structural strength as to meet increased strains occasioned by the increased control and turning power. The structure provided by this integral solid drop-forging provides for wooden hand-scales so shaped as to provide the foregoing characteristic. The shape can be seen plainly by the eye and felt by the hand. In the lower part of the handle, the elliptical cross-section merges with an abrupt break into a circular cross-section, and the two then decrease in diameter until there is a comparatively small circular cross-section and then continuing down becomes still smaller and then flattens out as a blade.

(2) Whether the structure involves invention is a question of fact, and the determining factor is not whether the achievement is difficult or easy, but whether it has, in point of fact, given the world something of real value, that it did not have—a benefit conferred upon mankind. (*O'Rourke Engineering Const. Co.* v. *McMullen et al.*, 160 Fed., 933; 88 C. C. A., 115.)

This court, upon the appeal in the other litigation, considered it very useful, and pointed out that a considerable demand had arisen for it. The record here shows that 4,700,000 of these screw-drivers have been sold at a price of at least ten per cent. higher than the next-highest-priced screw-driver. This willingness of the purchasing public to pay is a practical demonstration of its substantial value. The appellant's conduct in copying the structure and shape of the appellee's structure is a strong indication that it, too, appreciates the value of this advance in the art. We conclude that the combination constitutes invention, and that the patent is valid.

We shall consider the various patents in this record which were not considered in the case of *Smith & Co.* v. *Southington Mfg. Co.*, (247 Fed., 842; 159 C. C. A., 436.) In that case, the defendant introduced the same three table-knife patents, No. 78,328, issued May 26, 1868, to Moses Rubel, No. 86,252, issued January 26, 1869, to Moses Rubel, and No. 172,874, issued February 1, 1876, to James D. Frary; the screw-driver patent, No. 267,709, issued November 21, 1892, to Philip Nadig; three wrench patents, No. 553,059, issued January 14, 1896, to Robert C. Ellrich, No. 666,029, issued January 15, 1901, to Amos Sheppard, and Design No. 34,136, issued February 26, 1901, to William S. Ward; and all were held not to anticipate the patent in suit. We adhere to the conclusion there announced. In addition to the foregoing patents, this appellant has offered and introduced three other patents, one to Franz Lehman, No. 96,928, issued November 16, 1869, for a horseshoer's hoof-parer, one to Munson, No. 104,056, issued June 7, 1870, relating to rubber-coated carriage-trimmings, and one to Conklin, No. 128,020, issued June 18, 1872, for an ice-pick and meat-maul. The ice-pick is made of a single piece of cast metal, with handle-scales attached. The carriage-trimmings tool consists of a piece of metal covered with rubber, and the hoof-parer of a curved piece of metal with a curved knife fastened to one end, and two pieces of horn riveted to either side. They have neither the structure nor the shape of the patent in suit. It is plain that none of these prior patents could provide for the patented screw-driver without modification of the things shown in the patent.

(3) It is not sufficient to constitute anticipation that the device relied upon might, by modification, be made to accomplish the function performed by the patent in question. It must be designed by the maker and adapted for the performance of such function. (*Topliff* v. *Topliff & Co.*, 145 U. S., 156; 12 Sup. Ct., 825; 36 L. Ed., 658.) The prior wrench patents to Ellrich (No. 553,059) and Sheppard (No. 666,029) do not show or suggest any part of the shape of the patented screw-driver, except only at one end of the six mentioned parts. They do not disclose or suggest either the butt at one end or any of the shape below the handle portion, where the elliptical cross-section gradually merges into a round cross-section, nor the continued contracted diameter through the conical bolster into the circular tool-shank. They lack half the combination of the article, because, if a blade is formed on the end of one of these wrenches, the device still lacks the shape, and they cannot be declared an anticipation. We shall consider the design patent to Ward later.

The tools made pursuant to the prior patents were not screw-drivers, and do not suggest the idea in their construction of being at all adapted to a tool utility by turning on its longitudinal axis. To adapt these old devices to this new function would require modification or changes, and therefore they do not anticipate. (*Hobbs* v. *Beach*, 180 U. S., 383; 21 Sup. Ct., 409; 45 L. Ed., 586; *Barry* v. *Harpoon Castor Mfg. Co.*, 209 Fed., 207; 126 C. C. A., 301.)

The improvised tools used by employees of both in their factory and at their homes were simply wrench-bars and were not anticipations. They had not become established facts, accessible to the public, in contributing definitely to the advance of the art. They had not taken their place as part of the known established art, to which the public may at any time resort. (*Ajax Metal Co.* v. *Brady Brass Co.*, C. C., 155 Fed., 409.) These tools do not suggest or show the merging of the elliptical cross-section into the circular cross-section, or the portion of the tool below that. To prove anticipation by an unpatented device, if attempted by oral testimony, the existence and use must be proven by clear, satisfactory proof and beyond a reasonable doubt. (*The Barbed Wire Patents*, 143 U. S., 275; 12 Sup. Ct., 443; 36 L. Ed., 154.) We find nothing in the prior use of the various tools, which have been offered in evidence and been considered, which warrants our concluding, beyond a reasonable doubt, that the appellee's patented structure has been anticipated by such use.

The proof of infringement is ample. The appellant's screw-driver is so near in structure and shape to the appellee's screw-driver that we are convinced of its infringement.

(4) The appellee has sued upon both patents in this action. This it may properly do. (*Eclipse Mach. Co.* v. *Harley-Davidson Motor Co.*, D. C., 244 Fed., 463.) To successfully establish the validity of the design patent, and to entitle the inventor to protection, he must establish a result obtained, which indicates, not only that the design is new, but that it is beautiful and attractive. It must involve something more than mere mechanical skill. There must be invention of design. The district judge concluded that the screw-driver is beautiful and attractive, and he says, even ornamental. We cannot, however, agree that the appellee's structure, made pursuant to this patent, has such a pleasing effect imparted to the eye as to create beauty or attractiveness, or to make it ornamental. It provides for a new utility. Design patents refer to appearance. Their object is to encourage works of art and decorations which appeal to the esthetic emotions—to the beautiful. We do not think that the device constructed by the appellee has a subject-matter for such beauty and attractiveness as is contemplated by the statutes, which permit the Patent Office to grant design patents, and conclude that the learned district judge erroneously sustained this patent.

We therefore modify the decree by affirming the result reached by the district judge as to the Letters Patent No. 737,179, granted August 25, 1903, and reverse the decree as to Design Letters Patent No. 37,214.

The decree below is thus modified and affirmed.

Changes in Classification.

(ORDER No. 2,599.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 4, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 57, Hoisting, (Division IV,) abolish subclass—

116. Raising and lowering, automatic check and release.

The patents formerly contained in this subclass have been placed for the most part in class 192, Clutches and Power-Stop Control, subclass 15, Clutch and brake, Automatic check and release, and the subclass indented thereunder, hereinafter established.

In class 74, Machine Elements, (Division XLVII,) abolish subclass—

Machine-brakes—
45. Centrifugal speed-regulators.

The patents formerly contained in this subclass have been placed for the most part in class 192, Clutches and Power-Stop Control, subclasses 103, Clutches, Operators, Speed-responsive; 104, Clutches, Operators, Speed-responsive, Fixed-speed release, and 105, Clutches, Operators, Speed-responsive, Fixed-speed engagement, hereinafter established.

In class 188, Brakes, (Division XLVII,) abolish the following subclass, with its definition:

Operaters—
Automatic—
133. Drive release.

The patents formerly contained in this subclass have been placed for the most part in class 192, Clutches and Power-Stop Control, subclass 8, Transmission control and brake, Automatic brake, Drive release, hereinafter established.

In class 208, Velocipedes, (Division VII,) abolish subclass—

Brakes—
57. Back-pedaling.

The patents formerly contained in this subclass have been placed for the most part in class 192, Clutches and Power-Stop Control, subclass 5, Transmission control and brake, Back-pedaling brake, and the subclass indented thereunder, hereinafter established.

In class 192, Clutches, (Division XLVII,) change the title of the class to read *Class 192, Clutches and Power-Stop Control*, abolish the existing subclasses, and establish in lieu thereof the following subclasses and definitions:

192.—CLUTCHES AND POWER-STOP CONTROL.

1. **Motor control and brake—**
2. Electric motor,
3. Fluid-motor.
4. **Transmission control and brake—**
5. Back-pedaling brake—
6. Hub-brake,
7. Automatic brake—
8. Drive release,
9. Electric control,
10. Belt-shipper,
11. Belt-tightener.
12. **Clutch and brake—**
13. Vehicle type,
14. Same member,
15. Automatic check and release—
16. Clutch and brake same member,
17. Peripheral brake,
18. Sliding operation,
19. Crank control.
20. **Clutch and gear—**
21. Reversing.
22. **Latch-operated—**
23. Corn-planter type,
24. Longitudinally-moving transmission member—
25. Pin,
26. **Transversely-moving transmission member—**
27. Ball or roller,
28. Positive—
29. Rotating key.
30. **Clutches—**
31. Automatic—
32. Manual control—
33. Definite-position release,
34. Shaft-thrust,
35. Pilot mechanism—
36. Brake-band,
37. Transversely moving—
38. Ball or roller,
39. Positive,
40. Electric,

192.—CLUTCHES AND POWER-STOP CONTROL—Continued.

Clutches—
Automatic—
41. One-way engaging—
42. Free-engine type,
43. Reversible—
44. Ball or roller,
45. Ball or roller.
46. Positive,
47. Manual control,
48. Multiple—
49. Parallel vehicle-wheels—
50. Free wheel,
51. Reversing,
52. Progressive engagement—
53. Frictional and positive,
54. Torque-responsive—
55. Yielding,
56. Release on overload,
57. Fluent material and mechanical,
58. Fluent material—
59. Axially-movable piston,
60. Transversely-movable piston,
61. Gear-pump type,
62. Plow-lifting type,
63. Free-engine type,
64. Velocipede free wheel,
65. Axially and transversely engaging,
66. Axially engaging—
67. Positive,
68. Opposed,
69. Multiple disk,
70. Spreading,
Transversely engaged—
71. Positive,
72. Interior and exterior—
73. Opposing,
74. Interior—
75. Expanding—
76. Radial,
77. Split ring—
78. Cam-operated,

192.—CLUTCHES AND POWER-STOP CONTROL—Continued.

Clutches—
Transversely engaged—
79. Exterior—
80. Strap—
81. Multiple folds,
82. Operators—
83. Multiple,
84. Electric,
85. Fluid-pressure—
86. Double-acting,
87. Multiple clutches,
88. Flexible motor,
89. Spring or weight—
90. Electric release,
91. Fluid release,
92. One-direction apply and release,
93. Cam,
94. Screw,
95. Hand-wheel,
96. Central pin—
97. Screw-operated,
98. Shipper-saddles,
99. Lever systems,
100. Follow-up,
101. Releasing,
102. Check of driven member,
103. Speed-responsive—
104. Fixed-speed release,
105. Fixed-speed engagement,
106. Release.
Elements—
107. Engaging—
108. Positive,
109. Thrust members, retarders, and stops,
110. Shafts, bearings, and adjusting devices,
111. Wear-compensators,
112. Casings,
113. Lubricating and cooling.
114. Locks,
115. Supports.

R. F. WHITEHEAD, *Acting Commissioner.*

Changes in Classification.

(ORDER No. 2,600.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 5, 1920.

It is hereby directed that class 176, Electric Lamps, be transferred from Division XXXVII to Division XLII, to take effect immediately.

R. F. WHITEHEAD,
Acting Commissioner.

Changes in Classification.

(ORDER No. 2,601.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 10, 1920.

It is hereby directed that class 267, Spring Devices, be transferred from Division XI to Division XLV; class 47, Trees, Plants, and Flowers, from Division I to Division II; class 156, Curtains, Shades, and Screens, from Division II to Division XLVI, to take effect immediately.

R. F. WHITEHEAD,
Commissioner.

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TO THE

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AUGUST, 1920.

[Opinion of the Solicitor of the Department of the Interior is indicated by a degree-mark (°), the decisions of the Court of Appeals of the District of Columbia by a star (*), and of the United States Circuit Court of Appeals by the letter ᵈ.]

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DIGEST

OF THE

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ABANDONMENT OF APPLICATIONS.

See Continuation of Applications, 2.

ADOPTION AND USE.

See Trade-Marks, 3, 7.

AFFIDAVITS UNDER RULE 75.

See Interference, 3.

ACCESS TO.

Where claims forming the issue of an interference had been rejected in view of a prior patent and the rejection withdrawn by the Examiner in view of affidavits filed under Rule 75, which were then sealed up, upon motion to dissolve, alleging non-patentability in view of such patent, it was not error for the Patent Office to refuse access by the moving party to such affidavits, since the issue raised by the affidavits—patentability—was one in which the moving party had no interest in the interference proceeding. * Erben *v.* Yardley, 396.

AGREEMENT.

Rights of Holder of Legal Title of Patent.

ANTICIPATION.

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See Trade-Marks, 3, 5.

CONCEPTION OF INVENTION.

See Priority of Invention.

CONCURRENT DECISIONS OF THE TRIBUNALS OF THE PATENT OFFICE.

INTERFERENCE—ERROR.

Where the line which separates the respective contentions of the parties to an interference is quite attenuated and not easily perceived and the just consideration of the case calls for expert knowledge, the concurring decisions of the Patent Office tribunals will not be disturbed by the court except where error very clearly appears. * Blaine *v.* White, 787.

CONFUSION OF THE PUBLIC.

See Trade-Marks, 3.

CONSTRUCTION OF SPECIFICATIONS AND PATENTS.

PATENTABILITY—USE IN NEW DEVICE OF CONSTRUCTION PREVIOUSLY USED IN REPAIR JOBS.

Where in the use of steel cars having longitudinal sills it was found that the sill was often broken between the end of the car and the body-bolster by reason of collision or buffing and it was the practice to repair such breaks by removing the end of the sill beyond the break and splicing an end section to the main body of the sill, claims of the Bellows patent, No. 693,218, covering a car provided with a sill with a sectional end spliced to the body at a point between the body-bolster and the end, *Held* invalid because devoid of invention, as it involves only the idea of using for new cars a construction theretofore used in repair jobs. (*National Harrow Co. v. Quick*, 74 Fed. Rep., 236.)

[4 Bellows and Black *v.* New York Central Railroad Company; Same *v.* Pressed Steel Car Company, 585.

CONSTRUCTION OF TRADE-MARK STATUTES.

See Trade-Marks, 1, 2, 3, 4.

CONTINUATION OF APPLICATIONS.

1. CONTINUING—DEFINED.

A continuing application is one filed subsequently to another, while the prior application is pending, disclosing all or a substantial part of the subject-matter of the prior application and containing claims to subject-matter common to both applications, both being filed by the same inventor or his legal representative. [*Ex parte* Hall, 395.

2. SUBSTITUTE APPLICATION FILED AFTER ABANDONMENT OF ORIGINAL.

Where H. filed an application which was allowed, forfeited, renewed, and again allowed and where after the time within which a second renewal could have been filed he filed a second application for the same subject-matter, *Held* that the second application could not be regarded as a continuation of the first. [Id.

DECISIONS OF EXAMINERS-IN-CHIEF.

See Interference, 3.

DESIGNS.

See Particular Patents, 4; Trade-Marks, 2.

DISCLOSURE OF INVENTION.

See Continuation of Applications; Interference, 1, 3, 5.

DISCRETION OF THE COURT.

See Suits for Infringement.

DOUBLE PATENTING.

PATENTS—PROCESS AND PRODUCT.

A patent for a commutator comprising metal commutator-bars and a body of heat-hardened resinous condensation product holding said bars in place is not a bar to the allowance to the same inventor of a patent for the process of producing the article, involving the conception of softening the moldable material, positioning the bars radially and longitudinally, and forming a complete insulating-body simultaneously under heat and pressure, which was foreign to the processes of the prior art. [*In re* Zenk, 183.

EQUIVALENTS.

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ERRORS.

See Affidavits Under Rule 75; Concurrent Decisions of the Tribunals of the Patent Office; Interference, 3; Suits for Infringement; Trade-Marks, 9.

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See Trade-Marks, 3.

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See Particular Patents, 2; Rights of Holder of Legal Title of Patent Suits for Infringement.

INJUNCTION.

See Rights of Holder of Legal Title of Patent; Suits for Infringement.

INTERFERENCE.

See Affidavits Under Rule 75; Concurrent Decisions of the Tribunals of the Patent Office; Priority of Invention; Trade-Marks, 9.

1. DISCLOSURE BY ONE CONTESTANT TO THE OTHER.
In an interference between S. and P. relating to a process of making stencil-paper for use with a sensitized photographic film and to the article made by such process *Held* the evidence of disclosure by S. to P. only proved disclosure of the result to be accomplished rather than the specific article of the issue and the process of producing the same. [*Pembroke v. Sulzer, 396.

2. ISSUE THAT OF PRIORITY ONLY.
In an interference contest the only question involved on appeal to the Court of Appeals of the District of Columbia is that of priority of invention between the parties, the losing party having no standing to contend that the issue is not patentable, that a third party was the prior inventor, or that there is a statutory bar to the issuance of a patent. [*Erben v. Yardley, 396.

3. REOPENING AFTER APPEAL TO COMMISSIONER TO TAKE FURTHER PROOFS.
In an interference between B. and M., in which the question was one of originality, where, after hearing on appeal to the Commissioner from a decision of the Examiners-in-Chief awarding priority to M., B. filed a motion to reopen the interference to take the testimony of M., supporting the motion by affidavits executed by M. to the effect that B. disclosed the invention to him, it was error to refuse the motion to reopen.
[*Bruckman *v.* Miller, 787.

4. SAME—POWER OF COMMISSIONER TO REOPEN INTERFERENCE TO TAKE ADDITIONAL TESTIMONY.
Interference proceedings are of an equitable nature, and so long as a case is pending in the Patent Office it is within the supervision of the Commissioner, who is charged with the duty of seeing that full justice is done, and he may, under his supervisory power, order a case reopened for the taking of additional testimony. [*Id.

5. SAME—ORIGINALITY.
In an interference between B. and M., involving the question of originality, evidence considered and *Held* that B. disclosed the invention in issue to M. [*Id.

INTERSTATE COMMERCE.

See Trade-Marks, 3, 8, 9.

INVENTION.

See Construction of Specifications and Patents.

1. PATENTABILITY—ELECTRICAL HEATING UNIT.
Where the prior art disclosed in one patent an electrical heating unit consisting of a series of separate resistance-coils formed of a double spiral wound in conical form, each coil being joined to the next by a binding-post, another patent disclosed a heater having a series of coils of a continuous piece of wire, and others disclosed heating-coils of a single spiral, the wire being led back through the coil, *Held* that no invention was involved in modifying the first-named construction by making the wire continuous and winding the coils in a single instead of a double spiral in view of the other references. [*Ex parte* Kuhn and Shallor, 585.

2. TEST OF.
Whether a patented structure involves invention is a question of fact, and the determining factor is not whether the achievement was difficult or easy, but whether it has in point of fact given the world something of value that it did not have.
[d H. D. Smith & Co. *v.* Peck, Stow & Wilcox Co., 981.

3. EVIDENCE OF.
The willingness of the public to pay more for a patented device than for other articles of that class is a demonstration of its substantial value, and the fact that defendant copied the structure and shape of the article shows that it, too, appreciated the value of the advance made. [dId.

JURISDICTION OF THE COMMISSIONER OF PATENTS.

See Interference, 4.

LICENSEE.

See Rights of Holder of Legal Title of Patent.

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See Affidavits Under Rule 75; Construction of Specifications and Patents; Interference, 2; Invention

PARTICULAR PATENTS.

See Construction of Specifications and Patents.

1. BELLOWS—No. 693,218—STEEL CAR.
The Bellows patent, No. 693,218, for a steel car, claims 2 and 3 *Held* void in view of prior uses.
[d Bellows and Slack *v.* New York Central Railroad Company; Same *v.* Pressed Steel Car Company, 585.

2. ROBINSON—No. 809,582—VEGETABLE-PEELING MACHINE—INFRINGED.
Claims of the Robinson patent, No. 809,582, for a vegetable-peeling machine, including a rotary disk having a horizontal striated portion. *Held*, infringed by a peeling-machine having an abrading-disk of concrete or cement, the latter being considered as having striations set irregularly.
[d Imperial Machine & Foundry Corporation *v.* G. S. Blakeslee & Co., 979.

3. WARD—No. 737,179—SCREW-DRIVER—NOT ANTICIPATED.
The Ward patent, No. 737,179, for a screw-driver, is not anticipated by a horseshoer's hoof-parer, by a carriage-trimmer's tool, by an ice-pick and meat-maul, or by a wrench, as none of them suggest the idea in their construction of being at all adapted to a tool utility by turning on its longitudinal axis. To adapt the old devices to the new function requires modification or changes.
[dH. D. Smith & Co. *v.* Peck, Stow & Wilcox Co., 981.

4. SAME—DESIGN—No. 37,213—SCREW-DRIVER—INVALID.
The Ward design patent, No. 37,213, for a design for a screw-driver, *Held* invalid, as it does not impart such a pleasing effect to the eye as to create beauty or attractiveness or to make it ornamental. [d Id.

PRIOR ADJUDICATION.

See Suits for Infringement.

PRIOR APPLICATION.

See Continuation of Applications, 1.

PRIOR PATENTS.

See Affidavits Under Rule 75.

PRIOR USE.

See Particular Patents, 1; Trade-Marks, 5, 6.

PRIORITY OF INVENTION.

See Interference, 2, 3, 5.

AWARDED TO FIRST TO CONCEIVE AND REDUCE TO PRACTICE.
In an interference contest a finding that one of the parties was prior to the other in conception and reduction to practice is a sufficient basis for an award of priority to him. In this proceeding it is unnecessary to determine what right either party ultimately might have to a patent, the only question involved being that of priority between the parties to the interference.
[*Erben *v.* Yardley, 396.

PROCESS.

See Interference, 1.

PROCESS AND PRODUCT.

See Double Patenting.

REDUCTION TO PRACTICE.

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REGISTRATION OF TRADE-MARKS.

See Trade-Marks.

REJECTION OF CLAIMS.

See Affidavits Under Rule 75.

RIGHT TO PATENT.

See Priority of Invention.

RIGHTS OF HOLDER OF LEGAL TITLE OF PATENT.

TO PROSECUTE APPEAL INDEPENDENT OF EXCLUSIVE LICENSEE.
Where suit was brought by the legal owner of a patent, joined with an exclusive licensee holding a license containing a provision that if the patent should be held invalid or should be held to infringe other patents the licensee should have the right to surrender the agreement and should not thereafter be obliged to pay royalties, and the district court held the patent invalid, upon refusal of the licensee to appeal the legal owners have sufficient interest in maintaining the validity of the patents to entitle them to prosecute an appeal, although the patent had expired and no injunction could be granted.
[d Bellows and Slack *v.* New York Central Railroad Company; Same *v.* Pressed Steel Car Company, 585.

ROYALTIES.

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SECOND APPLICATION.

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SECOND RENEWAL OF FORFEITED APPLICATIONS.

See Continuation of Applications, 2.

SIMILARITY OF TRADE-MARKS.

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STATE OF THE ART.

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SUITS FOR INFRINGEMENT.

See Rights of Holder of Legal Title of Patent.

PRELIMINARY INJUNCTION.
While an application for preliminary injunction in a suit for infringement is addressed to the discretion of the court, where the validity of the patent has been sustained by many prior adjudications and infringement is clear its refusal would be error.
[d Imperial Machine & Foundry Corporation *v.* G. S. Blakeslee & Co., 979.

TEST.

See Invention, 2.

TESTIMONY.

See Interference, 3, 4.

TRADE-MARKS.

1. ACT OF MARCH 19, 1920, CONSTRUED—MARKS REGISTRABLE UNDER ACT OF 1905 NOT REGISTRABLE UNDER SECTION (*b*).
Marks which are registrable under the Trade-Mark Act of February 20, 1905, are not registrable under section (*b*) of the act of March 19, 1920.
[* Opinion of the Solicitor of the Department of the Interior, 181.

2. SAME—MARKS NOT REGISTRABLE UNDER SECTION (*b*).
In the act of March 19, 1920, providing that the Commissioner shall keep a register of "(*b*) all other marks not registrable under the act of February 20, 1905, as amended, except those specified in paragraphs (*a*) and (*b*) of section 5 of that act," etc., the provision "except those specified in paragraphs (*a*) and (*b*)" was intended to include those scheduled under (*a*) as consisting of or comprising immoral and scandalous matter and those scheduled under (*b*), consisting of or comprising the flag or coat-of-arms or other insignia of the United States, States, municipalities, or foreign nations and designs, etc., adopted by fraternal and other societies.
[* Id.

3. SAME—PROVISO CLAUSE OF SECTION 1 (*b*) CONSTRUED.

The proviso clause of section 1 (*b*) of the act of March 19, 1920, construed as if it read: "*Provided*, That trade-marks which are *so nearly* identical with a known trade-mark owned and used in interstate and foreign commerce, or commerce with the Indian tribes by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers, shall not be placed on this register." [* Id.

4. SAME—TRANSFER OF FILING FEE FROM ONE APPLICATION TO ANOTHER.

The filing fee of ten dollars paid in connection with an application filed under the act of February 20, 1905, may be transferred to an application for registration under the act of March 19, 1920. [* Id.

5. SAME—SIMILARITY—"RAY - O - LITE" and "PREST - O - LITE."

The word "Ray-O-Lite," for storage batteries, *Held* not registrable in view of the prior use of "Prest-O-Lite" on the same goods. [* French Battery & Carbon Company *v.* The Prest-O-Lite Company, Inc., 182.

6. SAME—SAME—REGISTRATION BY OTHERS OF SIMILAR MARKS.

Held that "Ray-O-Lite" may be registered for electric lamps notwithstanding the prior use by the opposer of "Prest-O-Lite" on storage batteries where other marks about as near to "Prest-O-Lite" as is "Ray-O-Lite" had been registered by others for electric lamps prior to its use by the opposer for storage batteries. [* Id.

7. "PREST-O-LITE"—RIGHT TO PREVENT REGISTRATION OF "PLAY-O-LITE" IN FIELD OCCUPIED BY SIMILAR MARKS.

Where opposer adopted the mark "Prest-O-Lite" in 1904 for use on gas-tanks and did not extend its use to storage batteries until 1915, it is not entitled to successfully maintain opposition to the registration of "Play-O-Lite," adopted by applicant in 1917 for electric lamps, where others had adopted and used the words "Linolite," "Tubolite," "Portalite," and "Pract-El-Lite" prior to opposer's extension of its mark to storage batteries and had registered the same.

[* The Prest-O-Lite Company, Inc., *v.* Play-O-Lite Company, Inc., 790.

8. USE NECESSARY TO ESTABLISH RIGHT TO REGISTRATION.

Use of a trade-mark in interstate commerce or in commerce with foreign nations or with Indian tribes is a prerequisite to its registration, and the use contemplated is use by the applicant himself or by some one for him and not an independent or incidental use by a third party. Hence where persons outside the State of California, where appellee was doing business, procured appellee's goods in California and had them sent outside that State appellee could take no benefit from such transaction, and the business being otherwise local appellee failed to show the requisite use.

[*H. Kuhn & Sons (Inc.) *v.* Letts, 791.

9. EVIDENCE OF INTERSTATE USE—SUFFICIENCY—TAKING ADDITIONAL TESTIMONY.

Where in a trade-mark interference proceeding, an applicant is refused permission by the Commissioner to take further testimony to prove interstate commerce on the ground that the testimony in the case shows such use, and on appeal the court concluded that the testimony is insufficient for this purpose, although such use is alleged in the declaration, *Held* that the denial of the request to take further testimony was error, and the case reversed and remanded with directions to permit the introduction of the same. [*Id.

TRANSFER OF FEES.

See Trade-Marks, 4.

TRIBUNALS OF THE PATENT OFFICE.

See Concurrent Decisions of the Patent Office.

VALIDITY OF PATENTS.

See Rights of Holder of Legal Title of Patent; Suits for Infringement.

VOID PATENTS.

See Construction of Specifications and Patents; Particular Patents, 1, 4; Rights of Holder of Legal Title of Patent.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 3D DAY OF AUGUST, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A.-C. Manufacturing Company. (See Sebastian, A. A., and Capes, assignors.)
A. G. A. Railway Light & Signal Co. (See Medén, Elof H., assignor.)
A/S Mekano. (See Schepeler, Herman A., assignor.)
Adams, Arthur J., Milwaukee, Wis. Battery-plate. No. 1,348,467; Aug. 3; v. 277; p. 66.
Adams-Williams Manufacturing Corporation. (See Bresin, Louis, assignor.)
Adelson, Samuel L., Chicago, Ill. Combination-shaker. No. 1,348,468; Aug. 3; v. 277; p. 66.
Adelson, Samuel L., New York, N. Y. Protective socket. No. 1,348,620; Aug. 3; v. 277; p. 95.
Aldenbruck, Herbert G., and L. E. Webber, St. Paul, Minn.; said Webber assignor to said Aldenbruck. Rolling device for scrubbing, &c. No. 1,348,683; Aug. 3; v. 277; p. 107.
Aldendorff, Fritz, Wilmersdorf, Berlin, Germany. Switching apparatus. No. 1,348,835; Aug. 3; v. 277; p. 135.
Alexander, John E., Port Edwards, Wis. Cylinder for paper-drying machines. No. 1,348,469; Aug. 3; v. 277; p. 66.
Allen, Guy L., assignor of one-half to J. G. Clark, Boulder, Colo. Vibratory movement. No. 1,348,770; Aug. 3; v. 277; p. 123.
Amadio, Harry H., Redfern, near Sydney, New South Wales, Australia. Foot for crutches, walking-sticks, ladders, and the like. No. 1,348,531; Aug. 3; v. 277; p. 78.
American Can Company. (See Dister, Joseph, assignor.)
American Can Company. (See Graham, Charles W., assignor.)
American Can Company. (See Holloway, William M., assignor.)
American Can Company. (See Johnson, Axel, assignor.)
American Can Company. (See Levander, Swan N., assignor.)
American Casting and Manufacturing Corporation. (See Dietze, Emil, assignor.)
American Dresseler Tunnel Kilns. (See Dressler, Philip D., assignor.)
American Dressler Tunnel Kilns. (See Meehan, Paul A., assignor.)
American Steel & Wire Company, The. (See Weaver, A. T., Laufer, and von Wintzingerode, assignors.)
American Wagon Company. (See Kuhnen, Alexander F., assignor.)
Anderson, Axel. (See Gahring, Frederick A., assignor.)
Anderson, Carl E. E., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,348,684; Aug. 3; v. 277; p. 107.
Antisell, Frank L., Perth Amboy, N. J. Process of and furnace for refining copper. No. 1,348,470; Aug. 3; v. 277; p. 66.
Apple, Vincent G., Dayton, Ohio. Building inductor elements for dynamo-electric machines. No. 1,348,198; Aug. 3; v. 277; p. 13.
Arden, Thomas R., New York, N. Y. Collapsible rod. No. 1,348,145; Aug. 3; v. 277; p. 3.
Archer, Marmaduke H. P., Conshohocken, Pa. Mowing-machine. No. 1,348,685; Aug. 3; v. 277; p. 107.
Archibald, John A., South Pekin, Ill. Underwater boat. No. 1,348,686; Aug. 3; v. 277; p. 108.
Arkell Safety Bag Company. (See Greene, Edwin D., assignor.)
Armstrong Cork Company. (See Hawkins, John L., assignor.)
Armstrong, Morgan K., Winnetka, assignor to Bestwall Manufacturing Company, Chicago, Ill. Making plasterboard. No. 1,348,387; Aug. 3; v. 277; p. 51.
Arndt, Oscar, assignor of one-half to R. Arndt, Detroit, Mich. Jar-opener. No. 1,348,532; Aug. 3; v. 277; p. 78.
Arndt, Roman. (See Arndt, Oscar, assignor.)
Asher, Eunice. (See Stremel, Joseph, assignor.)
Ashton, Fred B., Chicago, Ill. Automatic combination-lock. No. 1,348,621; Aug. 3; v. 277; p. 95.
Aspinwall, John, Newburgh, N. Y. Mower. No. 1,348,471; Aug. 3; v. 277; p. 66.
Atwood, Harry N., assignor to The Veneer Products Company, Smithfield, N. C. Vehicle-wheel. No. 1,348,533; Aug. 3; v. 277; p. 78.
Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Du Lac, Minneapolis, Minn. Rotary pump. No. 1,348,771; Aug. 3; v. 277; p. 123.
Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Dulac, Minneapolis, Minn. Rotary pump. No. 1,348,772; Aug. 3; v. 277; p. 124.
Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Dulac, Minneapolis, Minn. Rotary pump. No. 1,348,773; Aug. 3; v. 277; p. 124.
Automotive Tractor Corporation of America. (See Scully, George H., assignor.)
Bagg, Mathew M. (See Farr, Ira E., assignor.)
Bailey, Harold P., Franklin, N. H. Watch-bow. No. 1,348,388; Aug. 3; v. 277; p. 51.
Bair, Clark E., *et al.* (See Landers, William M., assignor.)
Baker, Franklin, Jr., Philadelphia, Pa. Preparing or treating cocoanut and product obtained thereby. No. 1,348,687; Aug. 3; v. 277; p. 108.
Baker, Franklin, Jr., Philadelphia, Pa. Preparing or treating cocoanut and product obtained thereby. No. 1,348,688; Aug. 3; v. 277; p. 108.
Baker, Franklin, Jr., Philadelphia, Pa. Preparing or treat-treating cocoanut and product obtained thereby. No. 1,348,689; Aug. 3; v. 277; p. 108.
Barber, William, Brooklyn, N. Y. Metal wheel. No. 1,348,199; Aug. 3; v. 277; p. 13.
Barbery, Anthony. (See Patremio, Martin, assignor.)
Barbour, George H., Pittsburgh, Pa. Rail-tie. No. 1,348,344; Aug. 3; v. 277; p. 42.
Barbour, George H., Pittsburgh, Pa. Rail-joint. No. 1,348,345; Aug. 3; v. 277; p. 43.
Barnhart, John E. (See Hayes, J. P., and Barnhart.)
Barr and Stroud. (See Barr, A., and Stroud.)
Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Variable-speed hand-driving mechanism. No. 1,348,690; Aug. 3; v. 277; p. 108.
Barrett, Herbert L., Opportunity, Wash. Pusher-feed for gang-saws. No. 1,348,389; Aug. 3; v. 277; p. 51.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Wire-tying bags. No. 1,348,346; Aug. 3; v. 277; p. 43.
Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)
Bauder, George T., *et al.* (See Stringer, Melvin, assignor.)
Baughman, Alton L., Wolf Lake, Ind. Paving-block. No. 1,348,774; Aug. 3; v. 277; p. 124.
Beaumont, R. H., Company. (See Beaumont, R. H., assignor.)
Beaumont, Robert H., assignor to R. H. Beaumont Company, Philadelphia, Pa. Sheave-carrier. No. 1,348,691; Aug. 3; v. 277; p. 109.
Beaumont, William W., Westminster, London, England. Manufacture of tires for the wheels of road-vehicles. No. 1,348,200; Aug. 3; v. 277; p. 13.
Beaver, Carl P., Ducktown, Tenn. Safety mechanism for elevators. No. 1,348,201; Aug. 3; v. 277; p. 13.
Beebe, Byron L., Wellington, Kans. Application of power. No. 1,348,202; Aug. 3; v. 277; p. 13.
Beecher, Edward, St. Louis, Mo., assignor to McQuay-Norris Manufacturing Company. Piston-ring. No. 1,348,146; Aug. 3; v. 277; p. 3.
Beine, Charles H., Kenosha, assignor of one-half to G. C. Brown, Milwaukee, Wis. Insulator-bracket. No. 1,348,534; Aug. 3; v. 277; p. 78.
Bell, Cyrus, Whittier, Calif. Sucker-rod joint. No. 1,348,692; Aug. 3; v. 277; p. 109.
Bellonby, Leonard A., Montpelier, Vt. Curing concrete and like plastic materials. No. 1,348,775; Aug. 3; v. 277; p. 124.
Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,348,147; Aug. 3; v. 277; p. 3.
Berea, Alejandro, administrator de bonus non. (See Staud y Ximenez, Fernando.)
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Chair-clamp. No. 1,348,148; Aug. 3; v. 277; p. 3.
Bestwall Manufacturing Company. (See Armstrong, Morgan K., assignor.)
Bibb, Pearl M., Minden, W. Va. Rail-bender. No. 1,348,535; Aug. 3; v. 277; p. 78.
Billings, William T., and F. Schryver, Ithaca, N. Y. Milk-strainer. No. 1,348,536; Aug. 3; v. 277; p. 79.
Billman, Obed C., Cleveland, Ohio. Car-coupling. No. 1,348,776; Aug. 3; v. 277; p. 124.

Bishop, Thomas K., Powell Station, Tenn. Smoke-consuming device for locomotives. No. 1,348,537; Aug. 3; v. 277; p. 79.
Bisson, Omer, Callaway, Minn. Saw-set. No. 1,348,622; Aug. 3; v. 277; p. 96.
Blake, Robert F., Boston, Mass., assignor to Submarine Signal Company, Portland, Me. Tank-mounting. No. 1,348,538; Aug. 3; v. 277; p. 79.
Blank, Charles A., Miller, Ind. Self-loader for auto-trucks. No. 1,348,777; Aug. 3; v. 277; p. 125.
Blaser, David, Taylor Ridge, Ill. Walking-cultivator. No. 1,348,693; Aug. 3; v. 277; p. 109.
Bleymehl, Henry, Chicago, Ill. Safety device for elevators. No. 1,348,472; Aug. 3; v. 277; p. 67.
Boldizzoni, Teobaldo. (See Terragni, M., and Boldizzoni.)
Borchert, Albert G. Cleveland, Ohio. Concrete construction. No. 1,348,623; Aug. 3; v. 277; p. 96.
Boyce, Malcolm B., Haverhill, Mass. Reflex focal-plane camera. No. 1,348,778; Aug. 3; v. 277; p. 125.
Boyer, Edmond A., Princeton Junction, N. J. Door-holding device for automobiles. No. 1,348,260; Aug. 3; v. 277; p. 26.
Braden Copper Company. (See Down, Norman B., assignor.)
Bradley, Joseph B., Miami, Fla. Wire cutting and twisting tongs. No. 1,348,694; Aug. 3; v. 277; p. 109.
Brand, Charles F., Wheeling, W. Va. Gas-burner. No. 1,348,261; Aug. 3; v. 277; p. 26.
Brandenberger, Carl F., Fort Madison, Iowa. Spring tension for power or hand pumps. No. 1,348,203; Aug. 3; v. 277; p. 14.
Breckenridge, Arthur N., Rockford, Ill. Power-drive for cream-separators. No. 1,348,695; Aug. 3; v. 277; p. 109.
Breitenbach, Julius M., New York, N. Y. Electric motor. No. 1,348,539; Aug. 3; v. 277; p. 79.
Bresin, Louis, assignor to Adams-Williams Manufacturing Corporation, New York, N. Y. Convertible automobile-body construction. No. 1,348,624; Aug. 3; v. 277; p. 96.
Brewster, Guy O., Dover, N. J. Bullet-proof armor. No. 1,348,204; Aug. 3; v. 277; p. 14.
Briggs, Frank A., Bellingham, Wash. Device for repairing fenders of automobiles. No. 1,348,625; Aug. 3; v. 277; p. 96.
Briggs, George F., Beaumont, Tex. Automatic safety-target. No. 1,348,540; Aug. 3; v. 277; p. 79.
Brockway, Scott A., Laurel, Nebr. Convertible toy. No. 1,348,262; Aug. 3; v. 277; p. 26.
Brooks, Winfred M., West Orange, N. J. Fastener. No. 1,348,473; Aug. 3; v. 277; p. 67.
Brown, George C. (See Beine, Charles H., assignor.)
Brown, Oscar, Lula, Ga. Highway-crossing signal. No. 1,348,696; Aug. 3; v. 277; p. 110.
Broun, Virginia M., Washington, D. C. Adjustable inclined bed. No. 1,348,779; Aug. 3; v. 277; p. 125.
Bryant Electric Company, The. (See Anderson, Carl E., assignor.)
Bryce, James W. (See Goss, H. T., and Bryce.)
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Budd, Edward G., Manufacturing Company. (See Maise, Herman C., assignor.)
Budnyk, Elena, Vegreville, Alberta, Canada. Combined chair and ladder. No. 1,348,474; Aug. 3; v. 277; p. 67.
Bullock, Lewis C., Jr., State College, Pa. Shoestring-fastening device. No. 1,348,475; Aug. 3; v. 277; p. 67.
Burbridge, Richard, Allison, Iowa. Oscillating bob-knee for sleigh-runners. No. 1,348,347; Aug. 3; v. 277; p. 43.
Burn, Thomas W., New York, N. Y. Carpet and rug fastener. No. 1,348,149; Aug. 3; v. 277; p. 3.
Burroughs, Arthur S. (See Dutro, O. V., and Burroughs.)
Burton Page Company, The. (See Frimand, Peter A., assignor.)
Cade, Robert S., Canton, Ohio. Combination metal weather-strip and guide for window-sashes. No. 1,348,205; Aug. 3; v. 277; p. 14.
Cahn, Henry S., and H. Siskin, Los Angeles, Calif.; said Cahn assignor to said Siskin. Winding-handle for phonographs. No. 1,348,476; Aug. 3; v. 277; p. 67.
Campbell, Bryant D., Oakland, Calif. Telephone system. No. 1,348,780; Aug. 3; v. 277; p. 125.
Canellos, Steve (See Malacos, P., and Canellos.)
Cantelo, John S., Boston, Mass. Caster. No. 1,348,150; Aug. 3; v. 277; p. 4.
Canton, Allen A., New York, N. Y., assignor to Canton Fan Heater Co. Fan. No. 1,348,477; Aug. 3; v. 277; p. 68.
Canton Fan Heater Co. (See Canton, Allen A., assignor.)
Capes, Delbert R. (See Sebastian, A. A., and Capes.)
Cardall, Richard R., assignor of one-half to H. Shepherd, Salt Lake City, Utah. Posting-tray and record-binder. No. 1,348,781; Aug. 3; v. 277; p. 125.
Carline, Robert L., Pittsburgh, Pa. Traction-gripping device. No. 1,348,697; Aug. 3; v. 277; p. 110.
Carrigan, John A., New Castle, Pa. Attachment for metal-coating machines. No. 1,348,478; Aug. 3; v. 277; p. 68.
Carter, Maurice A., Gilby, N. D. Composition of matter. No. 1,348,479; Aug. 3; v. 277; p. 68.
Central Oil & Gas Stove Co. (See White, Fred E., assignor.)
Chandler, Edwin N., Braintree, Mass. Electrically-heated shoe-treeing iron. No. 1,348,263; Aug. 3; v. 277; p. 27.
Charles, Henry L., Butte, Mont. Ore reducing and refining furnace. No. 1,348,151; Aug. 3; v. 277; p. 4.
Charter, Arlington, Covington, Tenn. Automatically-operated fire-extinguisher. No. 1,348,480; Aug. 3; v. 277; p. 68.
Chemo-Mechanical Water Improvement Company. (See Rice, Cyrus W., assignor.)
Chomos, John, Toledo, Ohio. Telescopical bed and collapsible-chair combination. No. 1,348,481; Aug. 3; v. 277; p. 68.
Christie, Edwin C., St. Catharines, Ontario, Canada, assignor to The Columbus McKinnon Chain Company, Columbus, Ohio. Chain-making machine. No. 1,348,541; Aug. 3; v. 277; p. 80.
Christoph, Emil A. (See Meutsch, C. C., and Christoph.)
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Plate for electrolytic cells. No. 1,348,206; Aug. 3; v. 277; p. 14.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic cell. No. 1,348,207; Aug. 3; v. 277; p. 14.
Clark, John G. (See Allen, Guy L., assignor.)
Claus, Emil L., Milwaukee, Wis. Torch-distributer head. No. 1,348,390; Aug. 3; v. 277; p. 51.
Clay, John D., Port Washington, N. Y. Circuit-closer. No. 1,348,208; Aug. 3; v. 277; p. 15.
Clemens Electrical Corporation. (See Clemens, John G., assignor.)
Clemens, John G., assignor to Clemens Electrical Corporation, Buffalo, N. Y. Refillable fuse-plug. No. 1,348,391; Aug. 3; v. 277; p. 51.
Clement, Edward E., Washington, D. C., assignor, by mesne assignments, to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,348,209; Aug. 3; v. 277; p. 15.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Apparatus for cracking hydrocarbons. No. 1,348,264; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,348,265; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,348,266; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,348,267; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Apparatus for cracking hydrocarbons. No. 1,348,268; Aug. 3; v. 277; p. 28.
Coatsworth, Louis, Chicago, Ill., assignor to Safety Projector & Film Co., Portland, Me. Film-gate for motion-picture machines. No. 1,348,626; Aug. 3; v. 277; p. 96.
Coe, Charles T., Kearney, N. J., assignor, by mesne assignments, to Diamond Power Specialty Company, Detroit, Mich. Tube-cleaner. No. 1,348,542; Aug. 3; v. 277; p. 80.
Cole, Edward P., Chicago, Ill. Casing for metal thermometers and the like. No. 1,348,210; Aug. 3; v. 277; p. 15.
Coleman, James M., assignor of one-fourth to J. W. Coleman, Montreal, Quebec, Canada. Car-end reinforcement. No. 1,348,482; Aug. 3; v. 277; p. 69.
Coleman, James W. (See Coleman, James M., assignor.)
Columbus McKinnon Chain Company, The. (See Christie, Edwin C., assignor.)
Combs, Binny F., East Berkshire, Vt. Identification-marker for receptacles such as milk-cans. No. 1,348,628; Aug. 3; v. 277; p. 97.
Compac Tent Company. (See Eberhardt, Ferdinand, assignor.)
Conlin, Frederick, Elizabeth, N. J. Marine torpedo. No. 1,348,152; Aug. 3; v. 277; p. 4.
Continental Can Co. (See Kronquest, A. L., and Taliaferro.)
Cook, Charles M., Rochester, N. H. Shoe-fastener. No. 1,348,392; Aug. 3; v. 277; p. 52.
Cook, Gorman R., Alpine, Ala. Plow and cultivator converting attachment. No. 1,348,782; Aug. 3; v. 277; p. 125.
Cook, Joseph S., Tacoma, Wash. Jack for automobiles. No. 1,348,627; Aug. 3; v. 277; p. 97.
Core, Elijah B., Yonkers, N. Y. Photographic-negative-developing frame. No. 1,348,153; Aug. 3; v. 277; p. 4.
Corley, Peter, Brooklyn, N. Y. Ash-sifter. No. 1,348,783; Aug. 3; v. 277; p. 126.
Cornwall, Charles. (See Deming, W. L., and Cornwall.)
Coss, Frank C. (See Hipkins, J. H., and Coss.)
Costigan, Charles A., Oakland, Calif. Dispensing apparatus. No. 1,348,269; Aug. 3; v. 277; p. 28.
Coulson, William T., Anerley, London, England. Construction of illuminating devices. No. 1,348,698; Aug. 3; v. 277; p. 110.
Crane, Frederick G., *et al.* (See Hammond, Grant, assignor.)
Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric regulation. No. 1,348,348; Aug. 3; v. 277; p. 43.
Crockett, Arthur, Kansas City, Mo. Trap-gun. No. 1,348,543; Aug. 3; v. 277; p. 80.
Crofton, Wilfred B., Yeoville, Johannesburg, South Africa. Internal-combustion engine. No. 1,348,393; Aug. 3; v. 277; p. 52.
Cross, Alonzo T., Providence, R. I. Fountain-pen-filling device. No. 1,348,211; Aug. 3; v. 277; p. 15.

Croxson, Edward C. S. (See Spicer, G., and Croxson.)
Cru Patents Corporation. (See Wenderhold, William, assignor.)
Crumpacker, Jay, McPherson, Kans. Automatic nailing-hammer. No. 1,348,544; Aug. 3; v. 277; p. 80.
Cunnyngham, Victor L., Chicago, Ill. Advertising record-chart. No. 1,348,349; Aug. 3; v. 277; p. 48.
Curtis, Arthur P., assignor to Ithaca Gun Company, Ithaca, N. Y. Bolting mechanism for guns. No. 1,348,545; Aug. 3; v. 277; p. 80.
Cushman, Sarah W., Norwich, N. Y. Garment-button. No. 1,348,629; Aug. 3; v. 277; p. 97.
Custenborder, John M., Mackinaw, Ill. Tractor steering device. No. 1,348,630; Aug. 3; v. 277; p. 97.
Cutler, William C., North Glendale, Calif. Card-suspending device. No. 1,348,546; Aug. 3; v. 277; p. 81.
Dandoy, John J. (See McDonnell, George F., assignor.)
Danke, Arthur E., Neenah, Wis., assignor to Sterling Manufacturing Company, Sterling, Ill. Hay-loader. No. 1,348,212; Aug. 3; v. 277; p. 16.
Davidson, George R., Lenox, Mich. Steering-wheel lock. No. 1,348,547; Aug. 3; v. 277; p. 81.
Davis, Frank S. (See Gow, J. M., and Davis.)
Davis, Lila S., Madison, Fla. Button-snap. No. 1,348,699; Aug. 3; v. 277; p. 110.
Davis, Theron, New York, N. Y. Incandescent electric lamp. No. 1,348,350; Aug. 3; v. 277; p. 43.
Davis, Verner F., Orange, N. J., assignor to P. D. Peters, Little Falls, N. Y. Heater for incubators. No. 1,348,784; Aug. 3; v. 277; p. 126.
Davis, William C., Melbourne, Victoria, Australia. Reinforced concrete construction. No. 1,348,483; Aug. 3; v. 277; p. 69.
Dawson Manufacturing Company. (See Dawson, Sidney, assignor.)
Dawson, Sidney, assignor to Dawson Manufacturing Company, Chicago, Ill. Grease-cup. No. 1,348,154; Aug. 3; v. 277; p. 4.
Day, George H., assignor to E. Kirstein Sons Company, Rochester, N. Y. Ophthalmic mounting. No. 1,348,155; Aug. 3; v. 277; p. 4.
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De Does, Peter J., assignor to The Toledo Parlor Furniture Company, Toledo, Ohio. Foldable bed-frame. No. 1,348,156; Aug. 3; v. 277; p. 5.
De Dominicis, Vincent, and F. A. Reip, East Orange, N. J. Aeroplane control. No. 1,348,548; Aug. 3; v. 277; p. 81.
De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Apparatus for amplifying pulsating electric currents. No. 1,348,157; Aug. 3; v. 277; p. 5.
De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Radio-telephone system. No. 1,348,213; Aug. 3; v. 277; p. 16.
De Forest Radio Telephone and Telegraph Company. (See De Forest, Lee, assignor.)
Deming Company, The. (See Deming, W. L., and Cornwall, assignors.)
Deming, William L., and C. Cornwall, assignors to The Deming Company, Salem, Ohio. Spraying device. No. 1,348,631; Aug. 3; v. 277; p. 97.
Detroit Automatic Scale Company. (See King, Bert W., assignor.)
Dewey, Haywood G., Westminster, assignor to The Fred H. Knapp Company, Baltimore, Md. Can-boxing machine. No. 1,348,549; Aug. 3; v. 277; p. 81.
Diamond Electric Specialties Corp. (See Rosenfeld, Francis M., assignor.)
Diamond Match Company, The. (See Paridon, Michael, assignor.)
Diamond Match Company, The. (See Wright, Charles F., assignor.)
Diamond Power Specialty Company. (See Coe, Charles T., assignor.)
Dickinson, William, Spokane, Wash. Rocking-horse. No. 1,348,785; Aug. 3; v. 277; p. 126.
Dickson, Horace L., Toronto, Ontario, Canada. Wrench. No. 1,348,632; Aug. 3; v. 277; p. 97.
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Dietze, Emil, Brooklyn, N. Y. Box-strap-applying mechanism. No. 1,348,270; Aug. 3; v. 277; p. 28.
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Di Milla, P. (See Paesano, Vincenzo, assignor.)
Dister, Joseph, Hamilton, Ohio, assignor to American Can Company, New York, N. Y. Can. No. 1,348,550; Aug. 3; v. 277; p. 81.
Dixon, John. (See Jobe, J. S., and Dixon.)
Dixon, John, Monaca, and J. M. Shaffer, New Brighton, assignors to United States Sanitary Manufacturing Company, Pittsburgh, Pa. Apparatus for coating castings. No. 1,348,351; Aug. 3; v. 277; p. 44.
Doolittle, Orson W., Glenside, Pa. Lubricator. No. 1,348,551; Aug. 3; v. 277; p. 81.
Dorchek, Frank, Colorado Springs, Colo. Groceryman's box. No. 1,348,552; Aug. 3; v. 277; p. 82.
Doty, Walter G., assignor to The Wagner Engineering Company, Dayton, Ohio. Making machine elements. No. 1,348,158; Aug. 3; v. 277; p. 5.
Douglas, Harry A., Bronson, Mich. Circuit-continuing device. No. 1,348,394; Aug. 3; v. 277; p. 52.
Douglas, Harry A., Bronson, Mich. Circuit-continuing device. No. 1,348,395; Aug. 3; v. 277; p. 52.
Dowd, William C., Quincy, Ill. Centrifugal pump and the like. No. 1,348,633; Aug. 3; v. 277; p. 98.
Dowell, Arthur E., Washington, D. C. Web-printing press. No. 1,348,553; Aug. 3; v. 277; p. 82.
Down, Norman B., Sewell, Chile, assignor to Braden Copper Company. Method of and apparatus for filtering. No. 1,348,159; Aug. 3; v. 277; p. 5.
Downie, James H., San Antonio, Tex. Transmission-gear. No. 1,348,160; Aug. 3; v. 277; p. 5.
Dozier, James C., Baton Rouge, La. Feeding mechanism for stapling-machines. No. 1,348,161; Aug. 3; v. 277; p. 6.
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Combustion-chamber. No. 1,348,486; Aug. 3; v. 277; p. 69.
Dringman, Ernest, Paxton, Nebr. Sand-guard for irrigation-ditches. No. 1,348,554; Aug. 3; v. 277; p. 82.
Dubee, Adelard J., Glens Falls, N. Y. Threshold. No. 1,348,396; Aug. 3; v. 277; p. 52.
Du Bois, Thomas R., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Engine starter and generator. No. 1,348,555; Aug. 3; v. 277; p. 82.
Duckstine, Julius, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,348,487; Aug. 3; v. 277; p. 69.
Du Lac, E., *et al.* (See Auger, Joseph T., assignor.)
Dunlop, Robert R., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric controller. No. 1,348,397; Aug. 3; v. 277; p. 53.
Du Puy, Alfred, Oak Park, Ill. Nut-lock. No. 1,348,787; Aug. 3; v. 277; p. 126.
Dutro, Orville V., and A. S. Burroughs, Spokane, Wash. Punching-machine. No. 1,348,788; Aug. 3; v. 277; p. 127.
Eberhardt, Ferdinand, assignor to Compac Tent Company, Indianapolis, Ind. Collapsible minnow net. No. 1,348,398; Aug. 3; v. 277; p. 53.
Eclipse Machine Company. (See McGrath, William L., assignor.)
Edwards, William D., assignor of one-half to H. W. Page, Maywood, Ill. Method of and apparatus for making ice. No. 1,348,352; Aug. 3; v. 277; p. 44.
Ehr, John N., W. J. Ehr, and G. W. Matteson, Moose Lake, Minn. Lumber composition. No. 1,348,789; Aug. 3; v. 277; p. 127.
Ehr, Walter J. (See Ehr, John N. and W. J., and Matteson.)
Electric Railway Improvement Company, The. (See Kjellgren, John G., assignor.)
Electric Vacuum Cleaner Company. (See Rosenfield, William W., assignor.)
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Elling, Albert W., Latimer, Iowa. Air and gas mixer. No. 1,348,272; Aug. 3; v. 277; p. 28.
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Emrick, Burt, Jackson, Mich. Bottle-closure. No. 1,348,273; Aug. 3; v. 277; p. 29.
English, Ada J., executrix. (See English, Philip M., assignor.)
English, Philip M., deceased, Bayonne, N. J., A. J. English, executrix. Flush-tank valve and appurtenances. No. 1,348,790; Aug. 3; v. 277; p. 127.
Etchison, Jesse F., Clovis, N. Mex. Window construction. No. 1,348,700; Aug. 3; v. 277; p. 110.
Eustice, Alfred L., Chicago, Ill. Fuse. No. 1,348,488; Aug. 3; v. 277; p. 70.
Evans, Edwin B. (See Page, Louis A., assignor.)
Evans, Fred, Summit, N. J. Recording-machine for liquid fuel and the like. No. 1,348,791; Aug. 3; v. 277; p. 127.
Everitt, Cyrus, Sidney, Ill. Valve-spring compressor. No. 1,348,701; Aug. 3; v. 277; p. 110.
Fageol, Rollie B., Oakland, Calif. Vehicle-bumper. No. 1,348,634; Aug. 3; v. 277; p. 98.
Fanner Manufacturing Company, The. (See Gibson, Samuel H., assignor.)
Farr, Ira E., assignor of one-half to M. M. Bagg, Watertown, N. Y. Machine for making composition plugs. No. 1,348,214; Aug. 3; v. 277; p. 16.
Feingold, Bernard, New York, N. Y. Dish-drier. No. 1,348,792; Aug. 3; v. 277; p. 127.
Fenn, Arthur G., Hartford, Conn. Indicator. No. 1,348,162; Aug. 3; v. 277; p. 6.
Ferguson, E. M., *et al.* (See Auger, Joseph T., assignor.)
Ferguson, George, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rubber-sole shoe. No. 1,348,163; Aug. 3; v. 277; p. 6.
Ferris, Philomene, Westwood, Calif. Shoe-fastener. No. 1,348,703; Aug. 3; v. 277; p. 111.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Apparatus for submarine signaling. No. 1,348,556; Aug. 3; v. 277; p. 83.

Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for detecting low-frequency impulses. No. 1,348,825; Aug. 3; v. 277; p. 133.

Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling and detection. No. 1,348,826; Aug. 3; v. 277; p. 133.

Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling. No. 1,348,827; Aug. 3; v. 277; p. 133.

Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for sound insulation. No. 1,348,828; Aug. 3; v. 277; p. 134.

Field, Chester C., Des Moines, Iowa. Non-freezable watering device. No. 1,348,489; Aug. 3; v. 277; p. 70.

Fitzgerald, John M. (See Mock, J. M., and Williston, assignors.)

Foltmer, Conrad H., Wray, Colo. Piston-ring. No. 1,348,274; Aug. 3; v. 277; p. 29.

Fontquerni-Vila, Emilio, New York, N. Y. Window-controlling device. No. 1,348,275; Aug. 3; v. 277; p. 29.

Fercier, William G., Wollaston, Mass. Ventilating system. o. 1,348,557; Aug. 3; v. 277; p. 83.

Fording, William G., assignor to J. T. Lister, Cleveland, Ohio. Putting beads on tire-carcasses. No. 1,348,164; Aug. 3; v. 277; p. 6.

Formway, Verla L., and S. S. Sloneker, Plainview, Tex. Double-action pump. No. 1,348,353; Aug. 3; v. 277; p. 44.

Fortuna-Werke Albert Hirth. (See Hirth, Carl A., assignor.)

Fortuna-Werke, Specialmaschinenfabrik G. M. B. H. (See Loose, Johannes, assignor.)

Fowler, John H., Lewistown, Pa. Supporting-bracket. No. 1,348,399; Aug. 3; v. 277; p. 53.

Fox, Ralph P., Harrisburg, Pa. Safety attachment for airplanes. No. 1,348,704; Aug. 3; v. 277; p. 111.

France, Walter M., and L. B. Jones, Meshoppen, Pa. Quick-adjusting bearing. No. 1,348,705; Aug. 3; v. 277; p. 111.

Frappart, Henry, Kincaid, Ill. Journal for car-wheels for all kinds of vehicles. No. 1,348,400; Aug. 3; v. 277; p. 53.

Frechette, John B., Valparaiso, Ind. Flexible and resilient shoe-sole. No. 1,348,706; Aug. 3; v. 277; p. 111.

Fretter, Nathan F., Cleveland, Ohio. Cut-off machine. No. 1,348,635; Aug. 3; v. 277; p. 98.

Fretter, Nathan F., Cleveland, Ohio. Tool for cutting tubes and the like. No. 1,348,636; Aug. 3; v. 277; p. 98.

Fries, Edward A. (See Randall, L. L., and Fries.)

Frimard, Peter A., Wilmette, assignor to The Burton Page Company, Chicago, Ill. Udder attachment for milking-machines. No. 1,348,401; Aug. 3; v. 277; p. 53.

Fritz, Lewis G., McCutchenville, Ohio, and A. A. Herzberger, Indianapolis, Ind. Thread-cutter. No. 1,348,276; Aug. 3; v. 277; p. 29.

Frommann, Franklin A., Chicago, Ill. Vehicle-wheel. No. 1,348,165; Aug. 3; v. 277; p. 6.

Fuller, Harvey R., Kirkville, Mo. Ruling-pen. No. 1,348,637; Aug. 3; v. 277; p. 98.

Fulton, William H., Irvington, N. J., assignor to Titeflex Metal Hose Corporation. Tube. No. 1,348,793; Aug. 3; v. 277; p. 127.

Gabbett-Fairfax, Hugh W., London, England. Machine-gun and other firearm. No. 1,348,702; Aug. 3; v. 277; p. 111.

Gabel, Thomas R., and H. H. Holdaway, assignors of two-thirds to H. P. Jones, Los Angeles, Calif., and one-third to said Gabel. Cotton-picker mechanism. No. 1,348,829; Aug. 3; v. 277; p. 134.

Gabring, Frederick A., assignor of one-half to A. Anderson, Minneapolis, Minn. Non-skid sectional tire-chain. No. 1,348,402; Aug. 3; v. 277; p. 54.

Gamble, Stanley B., West Perth, Western Australia, Australia. Post and side bar of beds, furniture, and the like. No. 1,348,707; Aug. 3; v. 277; p. 111.

Garland, Edward E., New York, N. Y. Stemless self-closing valve for high-pressure tanks. No. 1,348,708; Aug. 3; v. 277; p. 112.

Garfield, James R., trustee. (See Clement, Edward E., assignor.)

Garman, Harry B., Detroit, Mich., assignor to C. E. Thompson, Cleveland, Ohio. Transmission. No. 1,348,166; Aug. 3; v. 277; p. 6.

Garner, Henry, Moseley, J. P. Garner, Birmingham, and W. J. Parker, Moseley, England; said Parker assignor to said H. Garner and said J. P. Garner. Tractor. No. 1,348,558; Aug. 3; v. 277; p. 83.

Garner, James P. (See Garner, H., and J. P., and Parker.)

Garnett, Thomas W., and F. E. Torgler, Topeka, Kans. Ice-can. No. 1,348,354; Aug. 3; v. 277; p. 44.

Gay, George L., assignor of one-half to F. Whittmann, Philadelphia, Pa. Baking-oven and loading device therefor. No. 1,348,555; Aug. 3; v. 277; p. 44.

Genthner, Charles M., assignor to The Reading Stove Works, Orr, Painter & Co., Reading, Pa. Combination-stove. No. 1,348,709; Aug. 3; v. 277; p. 112.

Genung, John W., *et al.* (See Landers, William M., assignor.)

Gerber, Martin, Iowa City, Iowa. Automobile-radiator casing. No. 1,348,710; Aug. 3; v. 277; p. 112.

Gericke, Alexander A., Detroit, Mich. Adjustable die. No. 1,348,403; Aug. 3; v. 277; p. 54.

Gerrish, Edward L., Elk Grove, Calif. Coupling. No. 1,348,277; Aug. 3; v. 277; p. 29.

Giacomelli, Nazzareno, Newburgh, N. Y. Rail-chair. No. 1,348,794; Aug. 3; v. 277; p. 128.

Gibson, George H., Harvey, Ill. Tank-car. No. 1,348,404; Aug. 3; v. 277; p. 54.

Gibson, John H., Little Falls, Minn. Nailing mechanism. No. 1,348,711; Aug. 3; v. 277; p. 112.

Gibson, Samuel H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Metal-bending machine. No. 1,348,215; Aug. 3; v. 277; p. 16.

Giebeler-Wanke, Christoph A., New York, N. Y. Jointed doll. No. 1,348,216; Aug. 3; v. 277; p. 16.

Giles, David J., McKeesport, Pa. Reducing Tungsten ores. No. 1,348,356; Aug. 3; v. 277; p. 45.

Gill, Edwin R., Yonkers, N. Y. Storing and delivering apparatus. No. 1,348,490; Aug. 3; v. 277; p. 70.

Gillis, Harry, Egypt, Tex. Harrow. No. 1,348,830; Aug. 3; v. 277; p. 134.

Giraudias, Raoul, Montreal, Quebec, Canada. Bow-fastener. No. 1,348,795; Aug. 3; v. 277; p. 128.

Gitterman, Kurt R., Brooklyn, N. Y. Spectacle-shade. No. 1,348,712; Aug. 3; v. 277; p. 112.

Gitterman, Kurt R., Brooklyn, N. Y. Spectacle. No. 1,348,713; Aug. 3; v. 277; p. 113.

Glynn, Guilford C., Kansas City, Kans., assignor of one-half to P. A. Hilderbran, Kansas City, Mo. Plastic surface-covering. No. 1,348,278; Aug. 3; v. 277; p. 30.

Golden Glow Sign Corporation. (See Limpert, Alexander S., assignor.)

Goodwin, Lyle, Omaha, Nebr. Grave-lining device. No. 1,348,405; Aug. 3; v. 277; p. 54.

Gordon, Thomas, Vancouver, British Columbia, Canada. Tire. No. 1,348,714; Aug. 3; v. 277; p. 113.

Goss, Harry T., Rutherford, N. J., and J. W. Bryce, Binghamton, N. Y. Recorder. No. 1,348,217; Aug. 3; v. 277; p. 17.

Goss, Harry T., Rutherford, N. J., and J. W. Bryce, Binghamton, N. Y. Time-recorder. No. 1,348,218; Aug. 3; v. 277; p. 17.

Gould Coupler Company. (See Creveling, John L., assignor.)

Gow, John M., and F. S. Davis, Lansing, Mich. Meter-lubricator. No. 1,348,559; Aug. 3; v. 277; p. 83.

Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Can-end-lining machine. No. 1,348,560; Aug. 3; v. 277; p. 83.

Graves, Eugene S., Providence, R. I. Dyeing or similarly treating textiles. No. 1,348,167; Aug. 3; v. 277; p. 7.

Gray, Carl C., Minneapolis, Minn. Chain-tightener. No. 1,348,168; Aug. 3; v. 277; p. 7.

Gray, Raymond K., assignor to Graynie Corporation, Chicago, Ill. Automobile-tire lock. No. 1,348,169; Aug. 3; v. 277; p. 7.

Graynie Corporation. (See Gray, Raymond K., assignor.)

Green, Charles F., Defiance, assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-feeding system. No. 1,348,406; Aug. 3; v. 277; p. 55.

Greene, Edwin D., assignor to Arkell Safety Bag Company, New York, N. Y. Machine for making stretchable crinkled paper. No. 1,348,638; Aug. 3; v. 277; p. 99.

Greenawalt, John E., Denver, Colo. Apparatus for roasting or sintering ores. No. 1,348,407; Aug. 3; v. 277; p. 55.

Greenawalt, John E., Denver, Colo. Treating ores. No. 1,348,408; Aug. 3; v. 277; p. 55.

Gregg Company, The. (See Gregg, Otis T. and W. B., assignors.)

Gregg, Otis T. and W. B., assignors to The Gregg Company, Limited, Hackensack, N. J. Side-door-car construction. No. 1,348,170; Aug. 3; v. 277; p. 7.

Gregg, William B. (See Gregg, Otis T. and W. B.)

Grending, Edwin J., Colfax, Ill. Gate-latch. No. 1,348,715; Aug. 3; v. 277; p. 113.

Griffin, John B., Maple Hill, Conn. Phonograph. No. 1,348,357; Aug. 3; v. 277; p. 45.

Griffin, John B., Newington, Conn. Flexible tripping device for phonographs. No. 1,348,358; Aug. 3; v. 277; p. 45.

Griffiths, David I., Frostburg, Md. Direction-signal. No. 1,348,716; Aug. 3; v. 277; p. 113.

Grigsby, Arle, assignor of one-half to J. Lynch, Olney, Ill. Draw-bar lifter and holder. No. 1,348,491; Aug. 3; v. 277; p. 70.

Grimwood, Charles P., Los Angeles, Calif. Apparatus for the recovery of the contents of liquids. No. 1,348,409; Aug. 3; v. 277; p. 55.

Grob, Hugo, Zurich, Switzerland. Switching-over device for electrical lighting installations for railway-trains and the like. No. 1,348,171; Aug. 3; v. 277; p. 8.

Gronbech, Christian E. A., New York, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Syringe. No. 1,348,796; Aug. 3; v. 277; p. 128.

Grundmann, William, St. Louis, Mo. Concrete-finishing tool. No. 1,348,639; Aug. 3; v. 277; p. 99.

Guerra, José V., Santiago de Cuba, Cuba. Telegraph instrument. No. 1,348,717; Aug. 3; v. 277; p. 113.

Hachmann, Frederick, assignor of one-half to H. Stiefel, St. Louis, one-eighth to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to P. E. Moody, one-sixteenth to C. R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Piston-ring. No. 1,348,640; Aug. 3; v. 277; p. 99.

Hachmann, Frederick, assignor of one-half to H. Stiefel, St. Louis, one-eighth to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to P. E. Moody, one-sixteenth to C. R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Piston-ring. No. 1,348,641; Aug. 3; v. 279; p. 99.

Haggerty, Patrick F., New York, N. Y. Stopping-out machine for electrotypers. No. 1,348,492; Aug. 3; v. 277; p. 70.

Halseth, Henry E., Virginia, Minn. Penholder. No. 1,348,410; Aug. 3; v. 277; p. 55.

Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Magazine for firearms. No. 1,348,172; Aug. 3; v. 277; p. 8.

Hammond, William P., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cut-sole rack. No. 1,348,173; Aug. 3; v. 277; p. 8.

Handy Manufacturing Company. (See Bergstrom, Oscar, assignor.)

Hansen, Lars, Kansas City, Mo. Molding-machine. No. 1,348,411; Aug. 3; v. 277; p. 56.

Hardinge, Harry W., New York, N. Y. Tube-mill. No. 1,348,642; Aug. 3; v. 277; p. 99.

Harriman, George V., New York, N. Y. Syringe. No. 1,348,412; Aug. 3; v. 277; p. 56.

Harris, Arthur W., Sleepy Eye, Minn. Package closing and locking mechanism. No. 1,348,643; Aug. 3; v. 277; p. 99.

Harrison, Frederick J., Indianapolis, Ind. Tool. No. 1,348,413; Aug. 3; v. 277; p. 56.

Harvey, Wilbur E., Glenshaw, Pa. Controlling proportions of pulverized-fuel mixture. No. 1,348,561; Aug. 3; v. 277; p. 84.

Hathaway, Thomas H. E., Chicago, Ill. Combined cabinet and table. No. 1,348,220; Aug. 3; v. 277; p. 18.

Hauser, Albert H., Columbus, Ohio. Water-stop. No. 1,348,562; Aug. 3; v. 277; p. 84.

Haviland, Wood. (See Zieche, Paul R., assignor.)

Hayes, John P., and J. E. Barnhart, Pittsburgh, Pa. Automatic-circuit-breaker switchboard. No. 1,348,359; Aug. 3; v. 277; p. 45.

Hawkins, John L., Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Innersole for boots and shoes and making same. No. 1,348,644; Aug. 3; v. 277; p. 100.

Heap, Jesse J., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Double-lap seam for sewed articles. No. 1,348,645; Aug. 3; v. 277; p. 100.

Heberling, John, Rochester, N. Y. Automatic fuel-feeding mechanism. No. 1,348,414; Aug. 3; v. 277; p. 56.

Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,348,174; Aug. 3; v. 277; p. 8.

Herb, Jacob J., Toronto, Ontario, Canada. Clothes-wringer attachment for washtubs. No. 1,348,797; Aug. 3; v. 277; p. 128.

Herbst, Robert L., Hortonville, Wis. Pulley. No. 1,348,415; Aug. 3; v. 277; p. 56.

Herreshoff, Algernon S. D., Bristol, R. I. Oil-burning boiler. No. 1,348,563; Aug. 3; v. 277; p. 84.

Herzberger, Alfred A. (See Fritz, L. G., and Herzberger.)

Hesselman, Knut J. E., Saltsjö-Storängen, Sweden. Fluid-pump for multicylinder-internal-combustion engine. No. 1,348,646; Aug. 3; v. 277; p. 100.

Hester, Luther. (See Latham, C. L., and Hester.)

Heywood, Frederick W., Prahran, Melbourne, Australia. Metal-cutting tool. No. 1,348,279; Aug. 3; v. 277; p. 30.

Hidden, Charles P., Providence, R. I., assignor to Nitrogen Products Company. Furnace. No. 1,348,175; Aug. 3; v. 277; p. 8.

Highkin, David S., Baltimore, Md. Posterior interchangeable tooth and backing for bridgework. No. 1,348,798; Aug. 3; v. 277; p. 128.

Highkin, David S., Baltimore, Md. Posterior interchangeable tooth and backing for bridgework. No. 1,348,799; Aug. 3; v. 277; p. 128.

Hilderbran, P. A. (See Glynn, Guilford C., assignor.)

Hilley, Seaborn A., Leonard, Tex. Jar and can lifter. No. 1,348,416; Aug. 3; v. 277; p. 57.

Himmel, Solomon. (See Woltz, Albert M., assignor.)

Hinerfeld, Irving, New York, N. Y. Envelop sealing and stamping machine. No. 1,348,493; Aug. 3; v. 277; p. 70.

Hipkins, Jesse N., Wheeling, W. Va., and F. C. Coss, Martins Ferry, Ohio. Water-motor. No. 1,348,800; Aug. 3; v. 277; p. 128.

Hirth, Carl A., Cannstatt, near Stuttgart, assignor to Fortuna-Werke Albert Hirth, Cannstatt, Germany. Machine for skiving leather. No. 1,348,221; Aug. 3; v. 277; p. 18.

Hodge & Graves Company. (See Knights, George L., assignor.)

Hodges, Edward G., Marshalltown, Iowa. Speed-limiting device. No. 1,348,831; Aug. 3; v. 277; p. 134.

Hodgkins, Albert A., Bridgeport, Conn. Shuttle-motion for two-bank looms. No. 1,348,417; Aug. 3; v. 277; p. 57.

Hoffmann, William R., New York, N. Y. Safety instrument-holder. No. 1,348,718; Aug. 3; v. 277; p. 113.

Hogle, Harry C., Chicago, Ill. Locomotive-cab window. No. 1,348,647; Aug. 3; v. 277; p. 100.

Holdaway, Hall H. (See Gabel, T. R., and Holdaway.)

Hollenbeck, William H., Portland, Oreg. Floor and paving block. No. 1,348,418; Aug. 3; v. 277; p. 57.

Holloway, William M., Maywood, Ill., assignor to American Can Company, New York, N. Y. Listing-adder. No. 1,348,564; Aug. 3; v. 277; p. 84.

Holmes, Andrew E., New York, N. Y. Drink mixer and dispenser. No. 1,348,222; Aug. 3; v. 277; p. 18.

Hood Rubber Company. (See Perrault, Joseph E., assignor.)

Horn, Abraham E., New York, N. Y. Treating lime. No. 1,348,494; Aug. 3; v. 277; p. 71.

Hotka, Frank G., Cudahy, Wis. Glove-sewing machine. No. 1,348,176; Aug. 3; v. 277; p. 9.

Houghton, Carley E., Mulberry, Kans. Steam-shovel trip. No. 1,348,719; Aug. 3; v. 277; p. 114.

Howell, Edward D., Springfield, assignor to Tuttle & Bailey Mfg. Co., New York, N. Y. Register or grill. No. 1,348,360; Aug. 3; v. 277; p. 45.

Howell, George W., Los Angeles, Calif. Rock-drill or impact engine. No. 1,348,280; Aug. 3; v. 277; p. 30.

Hudson, Henry, Malvern, Victoria, Australia. Insert for concrete and the like, to receive nails and other fasteners, or building elements. No. 1,348,801; Aug. 3; v. 277; p. 129.

Hughes, Howard R., Houston, Tex. Cross-roller drill-bit. No. 1,348,419; Aug. 3; v. 277; p. 57.

Hurlbut, Frank A., Kansas City, Mo. Thermostatic control for cooling mediums. No. 1,348,420; Aug. 3; v. 277; p. 57.

Hutchinson, David M., *et al.* (See Hachmann, Frederick, assignor.)

Hyman, Charles H., Chicago, Ill. Toy. No. 1,348,421; Aug. 3; v. 277; p. 58.

Hyman, Charles H., Chicago, Ill. Toy. No. 1,348,422; Aug. 3; v. 277; p. 58.

Hyman, Charles H., Chicago, Ill. Toy. No. 1,348,423; Aug. 3; v. 277; p. 58.

Ideal Wheel Company, The. (See Strietelmeier, John E., assignor.)

Independent Mines Smelting Company. (See Ward, Randolph G., assignor.)

Industrial Research Corporation. (See Green, Charles F., assignor.)

International Cellulose Company. (See Ostenberg, Zeno, assignor.)

International Conveyor Corporation. (See Steuart, Francis L., assignor.)

Irvin, James R. (See Smith, W. I., and Irvin.)

Ithaca Gun Company. (See Curtis, Arthur P., assignor.)

James, Carlton C., Honolulu, Hawaii. Phosphatic fertilizer and manufacturing same. No. 1,348,495; Aug. 3; v. 277; p. 71.

Jeffrey Manufacturing Company, The. (See Dunlop, Robert R., assignor.)

Jenkins, Charles F., Washington, D. C. Limiting combustion of picture-films. No. 1,348,177; Aug. 3; v. 277; p. 9.

Jenkins, Charles F., Washington, D. C. Fire-extinguisher for motion-picture apparatus. No. 1,348,565; Aug. 3; v. 277; p. 85.

Jenkins, Charles F., Washington, D. C. Motion-picture framing. No. 1,348,566; Aug. 3; v. 277; p. 85.

Jensen, George C., Oakland, Calif. Shiftblock lock and retainer. No. 1,348,802; Aug. 3; v. 277; p. 129.

Jensen, George C., Oakland, Calif. Lock for shifter-blocks. No. 1,348,803; Aug. 3; v. 277; p. 129.

Jester, Herbert W., Dallas, Tex. Churning device. No. 1,348,496; Aug. 3; v. 277; p. 71.

Jobe, John S., Rochester, and J. Dixond, Monaca, assignors to United States Sanitary Manufacturing Company, Pittsburgh, Pa. Method and apparatus for coating or enameling metal. No. 1,348,361; Aug. 3; v. 277; p. 46.

Johnson, Archie A. (See Moffett, Thomas S., assignor.)

Johnson, Arthur W., La Crosse, Wis. Tag holder and connector. No. 1,348,281; Aug. 3; v. 277; p. 30.

Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Closure for sanitary cans. No. 1,348,567; Aug. 3; v. 277; p. 85.

Johnson, Eugene A., Walla Walla, Wash. Electrical test set. No. 1,348,424; Aug. 3; v. 277; p. 58.

Johnson, Ludwig, Helena, Mont. Tractor. No. 1,348,720; Aug. 3; v. 277; p. 114.

Jones, Albert C. (See Wade, Edwin T., assignor.)

Jones, Ammon K., Neosho, Mo. Plow. No. 1,348,219; Aug. 3; v. 277; p. 17.

Jones, Charles C., Los Angeles, Calif. Extracting iron from its ores. No. 1,348,804; Aug. 3; v. 277; p. 129.

Jones, Henry P., *et al.* (See Gabel, T. R., and Holdaway, assignors.)

Jones, Leroy B. (See France, W. M., and Jones.)

Kahn, Benjamin J., Elizabeth, N. J. Tobacco-leaf stretching and sizing machine. No. 1,348,497; Aug. 3; v. 277; p. 71.

Kalmus, Comstock & Wescott. (See Wescott, William B., assignor.)

Kaskouras, Thomas, St. Paul, Minn. Butter container and cutter. No. 1,348,805; Aug. 3; v. 277; p. 129.

Kawneer Manufacturing Company. (See Plym, Francis J., assignor.)

K'Burg, Eli W., Toledo, Ohio. Grease-cup. No. 1,348,362; Aug. 3; v. 277; p. 46.
Keebler, Elmer, assignor to The Mechanical Manufacturing Company, Chicago, Ill. Bumping-post for freight-cars. No. 1,348,223; Aug. 3; v. 277; p. 18.
Keith, Irving L. (See Stone, John A., assignor.)
Keller, Charles L., Wyoming, Ohio. Roofing. No. 1,348,498; Aug. 3; v. 277; p. 71.
Kelly, Lawrence, St. Paul, Minn. Hay-stacking machine. No. 1,348,178; Aug. 3; v. 277; p. 9.
Kelly, Sherman L., Toledo, Ohio. Electric heating element and wiring therefor. No. 1,348,648; Aug. 3; v. 277; p. 101.
Kmble, Duston, Cortland, Ohio. Electrically-propelled vehicle. No. 1,348,568; Aug. 3; v. 277; p. 85.
Kemp, Walter D., New York, N. Y. Toy grenade. No. 1,348,224; Aug. 3; v. 277; p. 19.
Kent, Arthur A. (See Richter, William H., assignor.)
Kessen, Henry, Coldwater, Ohio. Metal-bending machine. No. 1,348,806; Aug. 3; v. 277; p. 130.
Ketteringham, William K., Jr., Jackson, Miss. Fastener for trims and jambs. No. 1,348,721; Aug. 3; v. 277; p. 114.
Kidwell, Edgar, Philadelphia, Pa. Steam-boiler. No. 1,348,179; Aug. 3; v. 277; p. 9.
Kilts, Frank, and L. A. Paradis, Chicago, Ill. Oxyacetylene cutting-machine for circular plates. No. 1,348,363; Aug. 3; v. 277; p. 46.
Kindle, Andrew H., Versailles, Mo. Dirigible headlight for automobiles. No. 1,348,425; Aug. 3; v. 277; p. 58.
King, Bert W., assignor to Detroit Automatic Scale Company, Detroit, Mich. Thermostatic device for scales. No. 1,348,225; Aug. 3; v. 277; p. 19.
Kipp, George E., assignor of one-fourth to R. J. Kipp, one-fourth to C. H. Winslow, and one-fourth to P. T. Winslow, Niverville, N. Y. Shut-off device for carbureters and the like. No. 1,348,226; Aug. 3; v. 277; p. 19.
Kipp, Robert J., *et al.* (See Kipp, George E., assignor.)
Kirby, William, assignor to South Metropolitan Gas Company, London, England. Purification of carbazole. No. 1,348,722; Aug. 3; v. 277; p. 114.
Kirstein, E. Sons Company. (See Day, George H., assignor.)
Kivlan, John L., Boston, Mass. Jar-rack. No. 1,348,807; Aug. 3; v. 277; p. 130.
Kivlan, John L., Boston, Mass. Canning process. No. 1,348,808; Aug. 3; v. 277; p. 130.
Kjellgren, John G., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rheostat. No. 1,348,809; Aug. 3; v. 277; p. 130.
Klasing, Augustus F., assignor of one-half to F. J. Stolpe, Chicago, Ill. Brake apparatus. No. 1,348,282; Aug. 3; v. 277; p. 30.
Klema, Joseph N., Austin, Minn. Lantern. No. 1,348,810; Aug. 3; v. 277; p. 130.
Kletschka, Emil V., Minneapolis, Minn. Crib. No. 1,348,426; Aug. 3; v. 277; p. 59.
Knap, Fred H., Company, The. (See Dewey, Haywood W., assignor.)
Knight, Paul A., Baltimore, Md. Valve-spring lifter. No. 1,348,570; Aug. 3; v. 277; p. 86.
Knights, George L., assignor to Hodge & Graves Company, Amesbury, Mass. Adjustable support. No. 1,348,569; Aug. 3; v. 277; p. 85.
Knipe, Henry H., Olney, Ill. Message-meter device. No. 1,348,499; Aug. 3; v. 277; p. 71.
Knudsen, Peter O. J., Copenhagen, Denmark. Locking device for motor-vehicles. No. 1,348,649; Aug. 3; v. 277; p. 101.
Koebel, John F., Buffalo, N. Y. Valve-lock for automobiles and the like. No. 1,348,364; Aug. 3; v. 277; p. 46.
Koehl, George J., San Diego, Calif. Toy. No. 1,348,283; Aug. 3; v. 277; p. 30.
Kremer, Theodore C., assignor to Lightning Coupler Link Company, Sharpsburg borough, Pa. Multiple coupling. No. 1,348,811; Aug. 3; v. 277; p. 131.
Kronquest, Alfred L., Chicago, Ill., and J. C. Tallaferro, Baltimore, Md., assignors to Continental Can Co., Inc., Syracuse, N. Y. Can-closing machine. No. 1,348,650; Aug. 3; v. 277; p. 101.
Kuhnen, Alexander F., Dixon, assignor to American Wagon Company, Chicago, Ill. Shoveling-board for wagon-bodies and the like. No. 1,348,651; Aug. 3; v. 277; p. 101.
Kynoch Limited. (See Stephens, Richard H., assignor.)
La Cour, Jens I., assignor to Norsk Hydroelektrisk. Kvaelstofaktieselskab, Christiania, Norway. Absorption of nitrous gases. No. 1,348,227; Aug. 3; v. 277; p. 19.
La France, Richard, assignor to The Owens Bottle Machine Company, Toledo, Ohio. Glass-forming machine. No. 1,348,365; Aug. 3; v. 277; p. 46.
Landau, Louis V., assignor to Landau's Instantaneous Duplicator Company, Los Angeles, Calif. Copying-pad. No. 1,348,812; Aug. 3; v. 277; p. 131.
Landau's Instantaneous Duplicator Company. (See Landau, Louis V., assignor.)
Landers, William M., assignor of one-third to C. E. Bair and one-third to J. W. Genung, Gracemont, Okla. Folding camp-stove. No. 1,348,427; Aug. 3; v. 277; p. 59.
Landine, Peter N., assignor to The Rostand Manufacturing Company, Milford, Conn. Hinge-lock. No. 1,348,813; Aug. 3; v. 277; p. 131.
Lange, William L., New York, N. Y. Banjo. No. 1,348,652; Aug. 3; v. 277; p. 101.
Larsson, Sven, Stockholm, Sweden. Machine applicable as pump, compressor, or motor. No. 1,348,814; Aug. 3; v. 277; p. 131.
Latham, Charles L., Berkeley, and L. Hester, Vallejo, Calif. Hand-truck brake. No. 1,348,428; Aug. 3; v. 277; p. 59.
Laufer, Ernest W. D. (See Weaver, A. T., Laufer, and von Wintzingerode.)
Leavitt, William H., Wichita Falls, Tex. Binding attachment for baling-presses. No. 1,348,180; Aug. 3; v. 277; p. 9.
Ledwinka, Joseph, assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Means for vulcanising rubber tires. No. 1,348,228; Aug. 3; v. 277; p. 19.
Lehnhoff, Rudolph, Burnham, Ill. Wrench. No. 1,348,366; Aug. 3; v. 277; p. 47.
Lester, William H., New York, N. Y. Go-cart suitcase. No. 1,348,723; Aug. 3; v. 277; p. 114.
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Button-attaching machine. No. 1,348,229; Aug. 3; v. 277; p. 20.
Lewis, Julian C., St. Louis, Mo. Rotary drill. No. 1,348,815; Aug. 3; v. 277; p. 131.
Lewis, Ralph A., Grangeville, Idaho. Rocking-chair. No. 1,348,429; Aug. 3; v. 277; p. 59.
Liberty Auto Lock Co. (See Saegesser, Albert W., assignor.)
Lightning Coupler Link Company. (See Kremer, Theodore C., assignor.)
Ligterink, Johannes H., Utrecht, Netherlands. Manufacture of floor-coverings as a substitute for linoleum. No. 1,348,571; Aug. 3; v. 277; p. 86.
Limpert, Alexander S., Pittsburgh, Pa., assignor to Golden Glow Sign Corporation, New York, N. Y. Illuminated sign. No. 1,348,816; Aug. 3; v. 277; p. 131.
Linard, Raymond, Ougrée, Belgium. Mill-train for the manufacture of small and medium iron bars. No. 1,348,230; Aug. 3; v. 277; p. 20.
Lister, Charles H., North St. Paul, Minn. Gravity carrier. No. 1,348,500; Aug. 3; v. 277; p. 72.
Lister, John T. (See Fording, William G., assignor.)
Little, Arthur D., Incorporated. (See Swett, Charles E., assignor.)
Lloyd, Richard L., Minneapolis, Minn. Game. No. 1,348,817; Aug. 3; v. 277; p. 132.
Lockwood, Burns D., Bellevue, and G. A. Suckfield, Avalon, assignors to Pressed Steel Car Company, Pittsburgh, Pa. Car-coupling. No. 1,348,501; Aug. 3; v. 277; p. 72.
Lofgren, Einar G. C., Minneapolis, Minn. Teletypewriter or printing-telegraph. No. 1,348,430; Aug. 3; v. 277; p. 59.
Loomis, Crawford C., Ilion, assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Slide-bushing for pistols. No. 1,348,284; Aug. 3; v. 277; p. 31.
Loose, Johannes, assignor to Fortuna-Werke, Specialmaschinenfabrik, G. m. b. H., Cannstatt-Stuttgart, Germany. Machine-tool. No. 1,348,502; Aug. 3; v. 277; p. 72.
Lopez, German M., and A. Quaglia, Buenos Aires, Argentina. Mordant or dye and making same. No. 1,348,431; Aug. 3; v. 277; p. 59.
Lord, Joseph S. and S. S., Manchester, England. Machine for dyeing, washing, scouring, sizing, bleaching, and mercerizing yarn in hank form. No. 1,348,724; Aug. 3; v. 277; p. 114.
Lord, Sam S. (See Lord, Joseph S. and S. S.)
Lorentz, Hermann G., assignor to The J. & E. Stevens Company, Cromwell, Conn. Toy firearm. No. 1,348,285; Aug. 3; v. 277; p. 31.
Luchetti, Amedeo, Monero, N. Mex. Railway-track. No. 1,348,286; Aug. 3; v. 277; p. 31.
Lukens, Alan R., Jr., Wyoming, Ohio. Shingle. No. 1,348,503; Aug. 3; v. 277; p. 72.
Lundy, Lundy S., Niagara Falls, Ontario, Canada, assignor to A. van den Boom and J. W. Slate, Walnut Cove, N. C. Collapsible box. No. 1,348,725; Aug. 3; v. 277; p. 115.
Lynch, John. (See Grigsby, Arle, assignor.)
Lyons, Arthur R., Carroll, Iowa. Reversing propeller. No. 1,348,432; Aug. 3; v. 277; p. 60.
McArthur, John O., Council Bluffs, Iowa. Crosshead. No. 1,348,287; Aug. 3; v. 277; p. 31.
McCann, George M. (See Stambaugh, H. J., and McCann.)
McDonald, George R., Berkeley, Calif. Oil-pump trunk. No. 1,348,504; Aug. 3; v. 277; p. 72.
McDonnell, George F., Charleston, and J. J. Dandoy, Dunbar, W. Va. Glass vessel. No. 1,348,231; Aug. 3; v. 277; p. 20.
McGhee, Jesse M., Estancia, N. Mex. Convertible table-bed. No. 1,348,572; Aug. 3; v. 277; p. 86.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,348,288; Aug. 3; v. 277; p. 31.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,348,289; Aug. 3; v. 277; p. 32.
McIntyre, Michael M., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-spring. No. 1,348,726; Aug. 3; v. 277; p. 115.

McKinley, James R., Seattle, Wash. Bolt. No. 1,348,727; Aug. 3; v. 277; p. 115.
McQuay-Norris Manufacturing Company. (See Beecher, Edward, assignor.)
Maass, Otto, Montreal, Quebec, Canada. Automatic valve. No. 1,348,505; Aug. 3; v. 277; p. 73.
MacCallum, Dorothy L., Cambridge, Mass. Waterproof garment. No. 1,348,818; Aug. 3; v. 277; p. 132.
Mackin, Frank A., Middleport, Ohio. Attachment for oil-boxes. No. 1,348,433; Aug. 3; v. 277; p. 60.
Magnan, August, Great Falls, Mont. Wrench. No. 1,348,832; Aug. 3; v. 277; p. 134.
Mnise, Herman C., Detroit, Mich., assignor, by mesne assignments, to E. G. Budd Manufacturing Company. Antirattler. No. 1,348,232; Aug. 3; v. 277; p. 20.
Malaces, Peter, and S. Canellos, Connellsville, Pa. Paper-hanging device. No. 1,348,290; Aug. 3; v. 277; p. 32.
Marcroft, George, Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Cone-winding machine. No. 1,348,291; Aug. 3; v. 277; p. 32.
Margetts, William H., Toronto, Ontario, Canada. Shading-machine. No. 1,348,653; Aug. 3; v. 277; p. 102.
Marshick, Oliver J., Detroit, Mich. Adapter for electrode-holders. No. 1,348,434; Aug. 3; v. 277; p. 60.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Registering-machine. No. 1,348,573; Aug. 3; v. 277; p. 86.
Martin, Luther B., Rexford, Mont. Automatically-locking switch-stand. No. 1,348,292; Aug. 3; v. 277; p. 32.
Martocci-Piscuill, Leon, New York, N. Y. Medicated pessary. No. 1,348,728; Aug. 3; v. 277; p. 115.
Masumoto, Shigeru, Los Angeles, Calif. Automobile traffic-signal. No. 1,348,367; Aug. 3; v. 277; p. 47.
Mata, José A., Berkeley, Calif. Foot-warmer. No. 1,348,506; Aug. 3; v. 277; p. 73.
Matthew, Oscar, Ford, Kans. Silo-hoist. No. 1,348,435; Aug. 3; v. 277; p. 60.
Matteson, Guy W. (See Ehr, John N. and W. J., and Matteson.)
Mechanical Manufacturing Company, The. (See Keebler, Elmer, assignor.)
Medén, Elof H., assignor to A. G. A. Railway Light and Signal Co., Inc., Elizabeth, N. J. Railway-crossing warning signal. No. 1,348,507; Aug. 3; v. 277; p. 73.
Medén, Elof H., assignor to A. G. A. Railway Light and Signal Co., Inc., Elizabeth, N. J. Railway signaling device. No. 1,348,508; Aug. 3; v. 277; p. 73.
Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,348,510; Aug. 3; v. 277; p. 73.
Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,348,511; Aug. 3; v. 277; p. 74.
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Merkel, Arthur E., *et al.* (See Stringer, Melvin, assignor.)
Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)
Meutsch, Charles C., Chicago, Ill., and E. A. Christoph, Buffalo, N. Y. Cushion-spring-assembling machine. No. 1,348,654; Aug. 3; v. 277; p. 102.
Middleton, Alfred S., assignor of one-half to W. M. Toole, Des Moines, Iowa. Spring-hub. No. 1,348,437; Aug. 3; v. 277; p. 60.
Miller, Elton W., Washington, D. C. Gas-mask. No. 1,348,819; Aug. 3; v. 277; p. 132.
Miller, Harry M., Milwaukee, Wis. Outlet-valve. No. 1,348,233; Aug. 3; v. 277; p. 21.
Miller Rubber Company, The. (See Willis, Glenn H., assignor.)
Miller, Solomon M., Chicago, Ill. Hair-clipper. No. 1,348,293; Aug. 3; v. 277; p. 32.
Mills, Claud E., Des Moines, Iowa. Front-end-suspension structure for self-propelled vehicles. No. 1,348,512; Aug. 3; v. 277; p. 74.
Mock, James C., and B. F. Williston, Detroit, Mich., assignors to J. M. Fitzgerald, River Forest, Ill. Lock. No. 1,348,234; Aug. 3; v. 277; p. 21.
Moeller, Joseph F., assignor to Moeller Machine Company, Chicago, Ill. Jack-truck. No. 1,348,294; Aug. 3; v. 277; p. 33.
Moeller Machine Company. (See Moeller, Joseph F., assignor.)
Moffett, Thomas S., assignor of one-half to A. O. Johnson, Walla Walla, Wash. Weeding implement. No. 1,348,438; Aug. 3; v. 277; p. 61.
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Mooney, William H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition apparatus. No. 1,348,368; Aug. 3; v. 277; p. 47.
Moore, Walter A., Welland, Ontario, Canada. Rolling-perspective rule. No. 1,348,655; Aug. 3; v. 277; p. 102.
Morey, Worthie W., Columbus, Ohio. Ventilator. No. 1,348,513; Aug. 3; v. 277; p. 74.
Morris, Harry F., Collingswood, N. J. Forced-draft watergrate. No. 1,348,235; Aug. 3; v. 277; p. 21.
Morrison, Alfred J., Denver, Colo., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Extension-bottom-box-wrapping apparatus. No. 1,348,369; Aug. 3; v. 277; p. 47.
Morrison, Andrew, Pittsburgh, Pa., assignor to Dilworth-Porter & Company, Pittsburgh, Pa. Tie-plate. No. 1,348,370; Aug. 3; v. 277; p. 48.
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Mount, Thomas L., New York, N. Y. System for charging storage batteries. No. 1,348,236; Aug. 3; v. 277; p. 21.
Mueller, Albert B., Chicago, Ill. Picture-projection apparatus. No. 1,348,656; Aug. 3; v. 277; p. 102.
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Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,296; Aug. 3; v. 277; p. 33.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,297; Aug. 3; v. 277; p. 33.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,298; Aug. 3; v. 277; p. 33.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,299; Aug. 3; v. 277; p. 34.
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Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,301; Aug. 3; v. 277; p. 34.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,302; Aug. 3; v. 277; p. 34.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,303; Aug. 3; v. 277; p. 34.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Thread-milling hob. No. 1,348,304; Aug. 3; v. 277; p. 35.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making thread-milling hobs. No. 1,348,305; Aug. 3; v. 277; p. 35.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making thread-milling hobs. No. 1,348,306; Aug. 3; v. 277; p. 35.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling-cutter. No. 1,348,307; Aug. 3; v. 277; p. 35.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,308; Aug. 3; v. 277; p. 36.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,309; Aug. 3; v. 276; p. 36.
Murphy, Clinton C., deceased, Chicago, Ill., E. B. Murphy, executrix, assignor to W. P. Murphy, New York, N. Y. Railway-car-door construction. No. 1,348,237; Aug. 3; v. 277; p. 22.
Murphy, Edna B., executrix. (See Murphy, Clinton C.)
Murphy Engineering Company, The. (See Murphy, Peter W., assignor.)
Murphy, Peter W., assignor to The Murphy Engineering Company, Detroit, Mich. Guideway and sliding member therefor. No. 1,348,371; Aug. 3; v. 277; p. 48.
Murphy, Walter P. (See Murphy, Clinton C.)
Myers, Philip H., Philadelphia, Pa. Switch-lock. No. 1,348,729; Aug. 3; v. 277; p. 115.
Napier, D., & Son. (See Rowledge, Arthur J., assignor.)
National Cash Register Company, The. (See Martin, Haakon A., assignor.)
National Dump Car Company. (See Otis, Spencer, assignor.)
National Surface Guard Company. (See Zimmerman, Clarence C., assignor.)
Negus, Alfred C., Schenectady, N. Y. Flexible staybolt for steam-boilers. No. 1,348,657; Aug. 3; v. 277; p. 103.
Nelson, Alfred C. (See Reilly, E. J., and Nelson.)
Nelson, Otto, Chicago, Ill. Valve-lifter. No. 1,348,658; Aug. 3; v. 277; p. 103.
New Haven Clock Co. (See Porter, Wilson E., assignor.)
Newark Parafline & Parchment Paper Co. (See Stoner, Winifred S., assignor.)
Nicholson, Frank T., Cambridge, Mass., and J. M. Nicholson, New York, N. Y., assignors to Westinghouse Electric & Manufacturing Company. Ash-discharge mechanism. No. 1,348,659; Aug. 3; v. 277; p. 103.
Nicholson, John M. (See Nicholson, Frank T. and J. M.)
Nicks, John H., San Saba, Tex. Twine-holder. No. 1,348,439; Aug. 3; v. 277; p. 61.
Nishi, Nagakata and N., Berkeley, Calif. Thermal circuit-controller. No. 1,348,514; Aug. 3; v. 277; p. 74.
Nishi, Nakasumi. (See Nishi, Nagakata and N.)
Nitrogen Products Company. (See Hidden, Charles P., assignor.)
Nixon, Moses C., Chicago, Ill. Bed or attachment therefor. No. 1,348,820; Aug. 3; v. 277; p. 132.
Nobel's Explosives Company. (See Rintoul, W., and Nolan, assignors.)
Nolan, Thomas J. (See Rintoul, W., and Nolan.)
Norden, Svan, Cranston, R. I. Machine for tipping shoelaces. No. 1,348,660; Aug. 3; v. 277; p. 103.
Norman, Emil, Holmquist, S. D. Folding telescope. No. 1,348,730; Aug. 3; v. 277; p. 116.

Norsk Hydroelektriak, Kvaelstofaktieselkab. (See La Cour, Jens L., assignor.)
North, Samuel A., Bridgeport, Conn., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Gaging or assorting machine. No. 1,348,310; Aug. 3; v. 277; p. 36.
North, William A., assignor to Emerson-Brantingham Company, Rockford, Ill. Speed-regulator for engines. No. 1,348,833; Aug. 3; v. 277; p. 135.
Oakes, Frank M., Sioux City, Iowa. Infant's toilet-seat. No. 1,348,372; Aug. 3; v. 277; p. 48.
Oberman, Gertrude V., Modesto, Calif. Milk-bottle holder and cooler. No. 1,348,661; Aug. 3; v. 277; p. 103.
Odenrider, Henry C., Wilbur, Wash. Four-wheel-truck weeder. No. 1,348,311; Aug. 3; v. 277; p. 36.
Odhner, Valentin J., Stockholm, Sweden. Calculating-machine. No. 1,348,575; Aug. 3; v. 277; p. 86.
Odhner, Valentin J., Stockholm, Sweden. Calculating-machine. No. 1,348,576; Aug. 3; v. 277; p. 87.
Ogawa, Riohei, Tokyo, Japan. Reinforcement for wooden keels and keelsons. No. 1,348,312; Aug. 3; v. 277; p. 36.
Olsson, John W., York, Pa. Toy vehicle. No. 1,348,577; Aug. 3; v. 277; p. 87.
Ostenberg, Zeno, San Jose, Calif., assignor to International Celluiose Company, Reno, Nev. Dissolving cellulose. No. 1,348,731; Aug. 3; v. 277; p. 116.
Otis, Spencer, Chicago, Ill., assignor to National Dump Car Company. Railway-car. No. 1,348,515; Aug. 3; v. 277; p. 74.
Owens Bottle Machine Company, The. (See La France, Richard, assignor.)
Paesano, Vincenzo, Isola Siri Superiore, Italy, assignor of one-half to P. Di Milia, Boston, Mass. System for developing power by tidal movement. No. 1,348,313; Aug. 3; v. 277; p. 37.
Page, Harry W. (See Edwards, William D., assignor.)
Page, Louis A., assignor of one-half to E. B. Evans, Providence, R. I. Safety-catch. No. 1,348,314; Aug. 3; v. 277; p. 37.
Palinski, Jan, Jersey City, N. J. Food-cutting device. No. 1,348,821; Aug. 3; v. 277; p. 132.
Paradis, Louis A. (See Kilts, F., and Paradis.)
Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Splint-feeding mechanism for match-machines. No. 1,348,181; Aug. 3; v. 277; p. 10.
Parker, Leslie H. (See Partington, J. R., and Parker.)
Parker, William J. (See Garner, H., J. P., and Parker.)
Partington, James R., and L. H. Parker, London, England. Fertilizer. No. 1,348,578; Aug. 3; v. 277; p. 87.
Partridge, Charles L., Omaha, Nebr. Bench-saw. No. 1,348,440; Aug. 3; v. 277; p. 61.
Pasman, Abram N., Waterbury, Conn. Flush-valve. No. 1,348,662; Aug. 3; v. 277; p. 104.
Patremio, Martin, assignor of one-half to A. Barbery, Lodi, N. J. Toy rattle. No. 1,348,836; Aug. 3; v. 277; p. 135.
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Pedersen, John D., Jackson, Wyo. Autoloading firearm. No. 1,348,733; Aug. 3; v. 277; p. 116.
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Perry, George R., New York, N. Y. Furniture-leveler. No. 1,348,441; Aug. 3; v. 277; p. 61.
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Pieper, Alphonse F. (See Pieper, O. H. and A. F.)
Pieper, Oscar H. and A. F., Rochester, N. Y. Electric motor. No. 1,348,239; Aug. 3; v. 277; p. 22.
Pieper, Oscar H. and A. F., Rochester, N. Y. Pulley-guard. No. 1,348,240; Aug. 3; v. 277; p. 22.
Pierce, Percy, Dayton, Ohio. Toy aeroplane. No. 1,348,373; Aug. 3; v. 277; p. 48.
Piggott, James T., Parkersburg, W. Va. Window-cleaner. No. 1,348,443; Aug. 3; v. 277; p. 61.
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Pontius, Merl R., and A. L. West, El Dorado, Kans. Sand-reel support. No. 1,348,734; Aug. 3; v. 277; p. 116.
Porter, Henry K., Brookline, Mass. Cutting-tool. No. 1,348,735; Aug. 3; v. 277; p. 117.
Porter, Wilson E., New Haven, Conn., assignor to New Haven Clock Co. Removable self-holding washer for clock-movements. No. 1,348,517; Aug. 3; v. 277; p. 75.
Post, Elisha A., and E. F. Schmitz, Allegan, Mich. Burial-casket. No. 1,348,579; Aug. 3; v. 277; p. 87.
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Prebble, Andrew, Altoona, Kans. Game apparatus. No. 1,348,442; Aug. 3; v. 277; p. 61.
Press, Earle P., Lake Bluff, Ill. Reinforced concrete construction. No. 1,348,445; Aug. 3; v. 277; p. 62.
Press, Jacob H., Chicago, Ill. Motor-vehicle. No. 1,348,241; Aug. 3; v. 277; p. 22.
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Pressed Steel Car Company. (See Lockwood, B. D., and Suckfield, assignors.)
Process Company, The. (See Coast, John W., Jr., assignor.)
Pugniet, Paul, Paris, France. Stocking-suspender. No. 1,348,444; Aug. 3; v. 277; p. 62.
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Quick, Claude J., Pulaski, N. Y. Leaf-spring. No. 1,348,446; Aug. 3; v. 277; p. 62.
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Ralston, Jasper N., Fitzgerald, Ga. Steam-boiler ash-pan. No. 1,348,737; Aug. 3; v. 277; p. 117.
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Rayburn, Elwyn M. and A. G., Sausalito, Calif. Power-transmission apparatus. No. 1,348,738; Aug. 3; v. 277; p. 117.
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Reeves, Percy, Chicago, Ill. Display and dispensing package. No. 1,348,318; Aug. 3; v. 277; p. 37.
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Reilly, Edgar J., Youngstown, and A. C. Nelson, Lakewood, assignors to The William B. Pollock Company, Youngstown, Ohio. Metal-transfer car. No. 1,348,319; Aug. 3; v. 277; p. 38.
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Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Folding seat. No. 1,348,375; Aug. 3; v. 277; p. 48.
Rice, Cyrus W., assignor to Chemo-Mechanical Water Improvement Company, Philadelphia, Pa. Making fertilizer from city and like waste. No. 1,348,320; Aug. 3; v. 277; p. 38.
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Richard, François, assignor to The Richard Auto Mfg. Co., Cleveland, Ohio. Oiling device. No. 1,348,664; Aug. 3; v. 277; p. 104.
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Richter, William H., Philadelphia, Pa., assignor to A. A. Kent, Ardmore, Pa. Interrupter mechanism. No. 1,348,185; Aug. 3; v. 277; p. 10.
Ricketts, James R., Long Beach, Calif. Power-transmission means and control therefor. No. 1,348,822; Aug. 3; v. 277; p. 133.
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Rodgers, Elmer E., A. W. Wenger, and C. M. Rodgers, Warsaw, Ind. Animal-trap. No. 1,348,449; Aug. 3; v. 277; p. 63.
Roeske, William A., McKee City, N. J. Level and tube-holder therefor. No. 1,348,742; Aug. 3; v. 277; p. 117.
Rogers, Samuel, Anderson, Ind., assignor to The Remy Electric Company. Unwinding device. No. 1,348,321; Aug. 3; v. 277; p. 38.
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Rohne, Even J., assignor to Rohne Dishwasher Company, Minneapolis, Minn. Dish-washing machine. No. 1,348,322; Aug. 3; v. 277; p. 38.
Roney, Alexander B., Chicago, Ill. Flying-machine. No. 1,348,743; Aug. 3; v. 277; p. 118.

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Rosenberg, Samuel, deceased, Chicago, Ill.; D. Rosenberg, administratrix. Windshield-hinge. No. 1,348,376; Aug. 3; v. 277; p. 49.
Rosenfeld, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J. Lamp-support. No. 1,348,665; Aug. 3; v. 277; p. 104.
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Rosenfeld, William W., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,348,583; Aug. 3; v. 277; p. 88.
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Rosenfeld, William W., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,348,586; Aug. 3; v. 277; p. 88.
Rosenfeld, William W., White Plains, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction cleaning-nozzle. No. 1,348,587; Aug. 3; v. 277; p. 89.
Ross, Adam, Buffalo, N. Y. Rewinding-machine. No. 1,348,242; Aug. 3; v. 277; p. 23.
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Ross, William E., assignor to The Ross Manufacturing Company, Cleveland, Ohio. Dressing-tool. No. 1,348,323; Aug. 3; v. 277; p. 38.
Rostand Manufacturing Company, The. (See Landine, Peter N., assignor.)
Rottman, George, New York, N. Y. Envelop. No. 1,348,243; Aug. 3; v. 277; p. 23.
Rowledge, Arthur J., assignor to D. Napier & Son Limited, London, England. Cylinder for internal-combustion engines. No. 1,348,451; Aug. 3; v. 277; p. 63.
Ruffman, David A., Hyde Park, London, England. Bidet. No. 1,348,518; Aug. 3; v. 277; p. 75.
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Sague, George. (See Pitt, J. W., and Sague.)
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Schepeler, Herman A., assignor to A/S Mekano, Copenhagen, Denmark. Switch for the closing of an electric circuit for a certain period. No. 1,348,746; Aug. 3; v. 277; p. 118.
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Schneider, Herman T., Garner, Iowa. Cleaning device. No. 1,348,748; Aug. 3; v. 277; p. 119.
Schneider, Ralph F., assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,348,749; Aug. 3; v. 277; p. 119.
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Schuler, William A., New York, N. Y. Fastener. No. 1,348,666; Aug. 3; v. 277; p. 104.
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Schuster, Francis X., Raber, Mich. Choke attachment for shotguns. No. 1,348,750; Aug. 3; v. 277; p. 119.
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Sebastian, Alphonse A. and D. R. Capes, assignors to A.-C. Manufacturing Company, Chicago, Ill. Motor-car rear-wheel-brake mechanism. No. 1,348,452; Aug. 3; v. 277; p. 63.
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Seeger, Erwin W., Milwaukee, Wis. Furnace-regulator. No. 1,348,589; Aug. 3; v. 277; p. 89.
Seeger Manufacturing Company. (See Seeger, Erwin W., assignor.)
Seiss, George J., Toledo, Ohio. Mechanically-actuated horn. No. 1,348,377; Aug. 3; v. 277; p. 49.
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Shaw, Roy E., Spearfish, S. D. Extensible electrical fixture. No. 1,348,752; Aug. 3; v. 277; p. 119.
Shea, David J., Marianna, Ark. Spring-wheel. No. 1,348,590; Aug. 3; v. 277; p. 89.
Shean, Thomas P., Chicago, Ill. Well-boring apparatus. No. 1,348,325; Aug. 3; v. 277; p. 39.
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Shepherd, Harry. (See Cordall, Richard R., assignor.)
Shiloff, Gennady G., New York, N. Y. Mechanical burglar-alarm. No. 1,348,378; Aug. 3; v. 277; p. 49.
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Shimer, Samuel J., & Sons. (See Shimer, Elmer S., assignor.)
Shrader, Ethel, Salina, Kans. Dress-shield supporter. No. 1,348,754; Aug. 3; v. 277; p. 120.
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Simpson, Sumner, assignor to The Raybestos Company, Bridgeport, Conn. Clutch-facing and making same. No. 1,348,755; Aug. 3; v. 277; p. 120.
Simpson, Thomas H., Centerville, Iowa. Automobile-lock. No. 1,348,453; Aug. 3; v. 277; p. 63.
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Skolnik, Max, Minneapolis, Minn. Child's vehicle. No. 1,348,326; Aug. 3; v. 277; p. 39.
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Smith, Harry F., Lexington, Ohio, assignor to The Smith Gas Engineering Company. System of gas control. No. 1,348,379; Aug. 3; v. 277; p. 49.
Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway-mail delivery. No. 1,348,380; Aug. 3; v. 277; p. 49.
Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway-mail delivery. No. 1,348,381; Aug. 3; v. 277; p. 50.
Smith, Louis, Hillyard, Wash. Exposure-table. No. 1,348,382; Aug. 3; v. 277; p. 50.
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Snyder, Charles F., Pittsburgh, Pa. Connection or joint and making same. No. 1,348,667; Aug. 3; v. 277; p. 104.
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Sonneborn, Charles, West Pittsburgh, Pa., assignor to Pressed Metal Radiator Company. Making radiating-casings. No. 1,348,328; Aug. 3; v. 277; p. 39.
South Metropolitan Gas Company. (See Kirby, William, assignor.)
Sparks, Charles F., Alton, Ill. Bag-filling machine. No. 1,348,592; Aug. 3; v. 277; p. 90.
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Spiegel, Edward, Brooklyn, N. Y. Automobile-top. No. 1,348,593; Aug. 3; v. 277; p. 90.
Spiess, Georg, Leipzig-Reudnitz, Germany. Sheet-feeding apparatus for paper-sorting machines. No. 1,348,246; Aug. 3; v. 277; p. 23.
Spitzfaden, Bernhard, Brooklyn, N. Y. Door-hanger. No. 1,348,758; Aug. 3; v. 277; p. 121.
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Stacey, Cyril F., London, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Treadle mechanism. No. 1,348,188; Aug. 3; v. 277; p. 11.
Stadig, Walter L., St. Francis, Me. Rotary snow-plow and snow-loader. No. 1,348,383; Aug. 3; v. 277; p. 50.
Stafford, Lewis F., Chicago, Ill. Bumper for vehicles. No. 1,348,329; Aug. 3; v. 277; p. 39.
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Stanton, Garrett J., Los Angeles, Calif. Iceless refrigerator. No. 1,348,823; Aug. 3; v. 277; p. 133.
Staud y Ximenez, Fernando, deceased; F. J. Salas, administrator, New York, N. Y.; A. Berea, administrator de bonis non, vice F. J. Salas, resigned. Apparatus for raising sunken vessels. No. 1,348,595; Aug. 3; v. 277; p. 90.
Steele, Robert G., Kelso, Saskatchewan, Canada. Adjustable screen for threshing-machines. No. 1,348,668; Aug. 3; v. 277; p. 104.
Steere, William J., Rockwood, Tenn. Brush device for trimming-machines. No. 1,348,247; Aug. 3; v. 277; p. 24.
Steinberger, Louis, Brooklyn, N. Y. Disk suspension-insulator. No. 1,348,248; Aug. 3; v. 277; p. 24.
Steinberger, Louis, Brooklyn, N. Y. Insulating-knob. No. 1,348,249; Aug. 3; v. 277; p. 24.

Stephens, Richard H., assignor of one-half to Kynoch Limited, Birmingham, England. Vapor-stove. No. 1,348,759; Aug. 3; v. 277; p. 121.
Sterling Manufacturing Company. (See Danke, Arthur E., assignor.)
Sterns, Edward, St. Louis, Mo., assignor, by mesne assignments, to Surety Tire & Rubber Company, Wilmington, Del. Tire-making device. No. 1,348,586; Aug. 3; v. 277; p. 91.
Stevens, J. E., Company, The. (See Lorents, Hermann G., assignor.)
Stevenson, John S., Baltimore, Md. Spark-indicator and plug-tester. No. 1,348,456; Aug. 3; v. 277; p. 64.
Stewart, Clarence K., Spokane, Wash. Game apparatus. No. 1,348,597; Aug. 3; v. 277; p. 91.
Stewart, Richard M., Chicago, Ill. Can-opener. No. 1,348,760; Aug. 3; v. 277; p. 121.
Stiefel, Herman, *et al.* (See Hachmann, Frederick, assignor.)
Stokes, & Smith Company. (See Morrison, Alfred J., assignor.)
Stolpe, Frederick J. (See Klasing, Augustus F., assignor.)
Stoltman, John A., Minto, N. D. Printing-machine. No. 1,348,330; Aug. 3; v. 277; p. 40.
Stone, John A., Derry, N. H., assignor to I. L. Keith, Haverhill, Mass. Press-board for stacks of soles. No. 1,348,521; Aug. 3; v. 277; p. 75.
Stoner, Winifred S., assignor to Newark Paraffine & Parchment Paper Co., New York, N. Y. Candy-wrapper. No. 1,348,761; Aug. 3; v. 277; p. 121.
Strachan, George C., Detroit, Mich. Bathtub. No. 1,348,250; Aug. 3; v. 277; p. 24.
Strasser, Albert, Rorschach, Switzerland. Deoxidising copper and its alloys. No. 1,348,457; Aug. 3; v. 277; p. 64.
Strasser, Albert, Rorschach, Switzerland. Deoxidising aluminum and its alloys. No. 1,348,458; Aug. 3; v. 277; p. 64.
Stremel, Joseph, assignor of one-half to E. Asher, Spokane, Wash. Sewer-pipe construction. No. 1,348,332; Aug. 3; v. 277; p. 40.
Stretch, Arthur J., Seattle, Wash. Hinge. No. 1,348,598; Aug. 3; v. 277; p. 91.
Strietelmeier, John E., assignor to The Ideal Wheel Company, Cincinnati, Ohio. Spring-wheel. No. 1,348,834; Aug. 3; v. 277; p. 135.
Stringer, Melvin, Cleveland, assignor of one-fourth to G. T. Bauder and one-fourth to A. E. Merkel, Cleveland, Ohio. Brake mechanism for vehicles. No. 1,348,331; Aug. 3; v. 277; p. 40.
Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Reclaiming and conveying apparatus. No. 1,348,599; Aug. 3; v. 277; p. 91.
Submarine Signal Company. (See Blake, Robert F., assignor.)
Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
Suckfield, George A. (See Lockwood, B. D., and Suckfield.)
Sullivan Machinery Company. (See Wyman, Charles W., assignor.)
Surety Tire & Rubber Company. (See Sterns, Edward, assignor.)
Suzuki, Sosaku, Tokyo, Japan. Combination spoon and fork. No. 1,348,762; Aug. 3; v. 277; p. 121.
Swan, Charles, Cleveland, Ohio. Combined leveling and cushioning device for traction-engines. No. 1,348,333; Aug. 3; v. 277; p. 40.
Swelven, Martin O., Olivia, Minn. Spring-tire. No. 1,348,522; Aug. 3; v. 277; p. 76.
Swett, Charles E., Brookline, Mass., assignor to Arthur D. Little, Incorporated, Cambridge, Mass. Forming shaped articles from precipitated skin-like compounds. No. 1,348,459; Aug. 3; v. 277; p. 64.
Sweyer, Hervey J., Circleville, Ohio. Vehicle safety baby-holder for use with motor-vehicles, buggies, carriages, &c. No. 1,348,334; Aug. 3; v. 277; p. 40.
Synthetic Hydro-Carbon Company. (See Whitaker, M. C., and Rittman, assignors.)
Taglisbue, Charles J., Manufacturing Co. (See Gronbech, Christian E. A., assignor.)
Tagliabue, Charles J., Manufacturing Co. (See Schneider, Ralph F., assignor.)
Talbot, John W., Chicago, Ill. Means for forming compressed objects. No. 1,348,669; Aug. 3; v. 277; p. 105.
Taliaferro, John J. (See Kronquest, A. L., and Taliaferro.)
Tamura, Shinkichi, Kobe, and M. Watanabe, Tokyo, Japan, said Watanabe assignor to said Tamura. Apparatus for change speed of motor-cars. No. 1,348,251; Aug. 3; v. 277; p. 24.
Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,348,763; Aug. 3; v. 277; p. 122.
Tench, Samuel V., Wilkes-Barre, Pa. Sprocket-chain. No. 1,348,189; Aug. 3; v. 277; p. 11.
Terragni, Manlio, and T. Boldizzoni, New York, N. Y. Embroidering device. No. 1,348,600; Aug. 3; v. 277; p. 91.
Tevander, Swan N., Maywood, Ill., assignor to American Can Company, New York, N. Y. Container-closure. No. 1,348,601; Aug. 3; v. 277; p. 92.
Thacker, William T., Greenville, S. C. Rocker-stud bearing. No. 1,348,602; Aug. 3; v. 277; p. 92.
Thill, Leonard S., Great Falls, Mont. Ore-feeding apparatus for furnaces. No. 1,348,603; Aug. 3; v. 277; p. 92.
Thompson, Charles E. (See Garman, Harry B., assignor.)
Thompson, Herbert, Foxcroft, Me. Game. No. 1,348,335; Aug. 3; v. 277; p. 41.
Thornhill, James O., Jelle, Minn. Cotton-chopping machine. No. 1,348,764; Aug. 3; v. 277; p. 122.
Titeflex Metal Hose Corporation. (See Fulton, William H., assignor.)
Titus, Frank M., Bradford, Pa., assignor to The United States and Cuban Allied Works Engineering Corporation. Pressure throttle control. No. 1,348,604; Aug. 3; v. 277; p. 92.
Todd, Alexander B., San Francisco, Calif. Separator. No. 1,348,252; Aug. 3; v. 277; p. 25.
Todd, Daniel M., assignor to Elgin Street Sweeper Co., Elgin, Ill. Street-sweeper. No. 1,348,605; Aug. 3; v. 277; p. 92.
Toledo Parlor Furniture Company, The. (See De Does, Peter J., assignor.)
Toledo Scale Company. (See Hem, Halvor C., assignor.)
Tomkins, Edwin F., Coaticook, Quebec, Canada. Apparatus for the manufacture of lace-tips. No. 1,348,336; Aug. 3; v. 277; p. 41.
Toole, Walter M. (See Middleton, Alfred S., assignor.)
Torgler, Fred T. (See Garnett, T. W., and Torgler.)
Tremont Products Company. (See Smith, Raymond D., assignor.)
Tronconi, Jose F., Buenos Aires, Argentina. Canning food products. No. 1,348,824; Aug. 3; v. 277; p. 133.
Trosien, Charles G., Pontiac, Mich. Lock for automobiles. No. 1,348,337; Aug. 3; v. 277; p. 41.
Tschudy, Frederick, Fairfield, Ala. Recovery of crude products from benzol light oils. No. 1,348,606; Aug. 3; v. 277; p. 92.
Tuttle & Bailey Mfg. Co. (See Howell, Edward D., assignor.)
U. S. Light & Heat Corporation. (See Du Bois, Thomas R., assignor.)
Underwood Typewriter Company. (See Duckstine, Julius, assignor.)
Union Special Machine Company. (See Heap, Jesse J., assignor.)
United Printing Machinery Company. (See Upham, Burt F., assignor.)
United Shoe Machinery Corporation. (See Ferguson, George, assignor.)
United Shoe Machinery Corporation. (See Hammond, William P., assignor.)
United Shoe Machinery Corporation. (See Levegne, Bernard T., assignor.)
United Shoe Machinery Corporation. (See Stacey, Cyril F., assignor.)
United States and Cuban Allied Works Engineering Corporation, The. (See Titus, Frank M., assignor.)
United States Sanitary Manufacturing Company. (See Dixon, J., and Shaffer, assignors.)
United States Sanitary Manufacturing Company. (See Jobe, J. S., and Dixon, assignors.)
Universal Winding Company. (See Marcroft, George, assignor.)
Upham, Burt F., assignor to United Printing Machinery Company, Boston, Mass. Printing-press. No. 1,348,253; Aug. 3; v. 277; p. 25.
Upham, Burt F., assignor to United Printing Machinery Company, Boston, Mass. Sheet-feeding mechanism. No. 1,348,254; Aug. 3; v. 277; p. 25.
Vandegrift, James N., Red Bank, N. J. Circuit-closing thermostat. No. 1,348,338; Aug. 3; v. 277; p. 41.
Van den Boom, A., *et al.* (See Lundy, Lundy, S., assignor.)
Vanzile, Daniel, Vredenburgh, Ala. Steam-feed-valve control mechanism. No. 1,348,607; Aug. 3; v. 277; p. 93.
Vanzile, Daniel, Vredenburgh, Ala. Steam-feed valve. No. 1,348,608; Aug. 3; v. 277; p. 93.
Veneer Products Company, The. (See Atwood, Harry N., assignor.)
Verre, John, Philadelphia, Pa. Antibursting and anti-shock device for tanks, pipes, &c. No. 1,348,384; Aug. 3; v. 277; p. 50.
Versteeg, John, St. Johns, Oreg. Agricultural implement. No. 1,348,255; Aug. 3; v. 277; p. 25.
Viehweger, Paul, Milwaukee, Wis. Artificial bait. No. 1,348,670; Aug. 3; v. 277; p. 105.
Violiet, Emile, Paris, France. Lamp. No. 1,348,523; Aug. 3; v. 277; p. 76.
Voelker, William J., Waterloo, Iowa. Conveyer. No. 1,348,671; Aug. 3; v. 277; p. 105.
Von Wintzingerode, Eberhard. (See Weaver, A. T., Laufer, and von Wintzingerode.)
Wade, Edwin T., assignor of one-third to Albert C. Jones, Jackson, Miss. Rail tie and fastener. No. 1,348,460; Aug. 3; v. 277; p. 64.
Wadsworth, Frank L. O., Pittsburgh, assignor to Skinner Engine Company, Erie, Pa. Steam-engine. No. 1,348,256; Aug. 3; v. 277; p. 25.
Wagner Engineering Company, The. (See Doty, Walter G., assignor.)
Wagner, Louis P., Milwaukee, Wis. Combination inlay and orthodontia clamp. No. 1,348,257; Aug. 3; v. 277; p. 26.
Wahl, George E., Chicago, Ill. Chuck for button-cutting machines. No. 1,348,190; Aug. 3; v. 277; p. 11.

Wainwright, Charles, Erie, Pa. Uniflow steam-engine. No. 1,348,672; Aug. 3; v. 277; p. 105.
Walker, Moses F., Cadiz, Ohio. Alarm for motion-picture-film reels. No. 1,348,609; Aug. 3; v. 277; p. 93.
Waraxa, Peter, *et al.* (See Willna, Theodor J., assignor.)
Ward, Randolph G., assignor to Independent Mines Smelting Company, Inc., New York, N. Y. Smelting-furnace. No. 1,348,525; Aug. 3; v. 277; p. 76.
Warren, James W., Alexandria, Va. Bolting-up device. No. 1,348,339; Aug. 3; v. 277; p. 41.
Warren, Robert W. A. Katanning, Western Australia, Australia. Automatic clutch-differential especially for motor-cars. No. 1,348,673; Aug. 3; v. 277; p. 105.
Washburne, Alva C., *et al.* (See Hammond, Grant, assignor.)
Washington, Earnest, Faribault, Minn. Hotel or restaurant cabinet. No. 1,348,461; Aug. 3; v. 277; p. 64.
Watson, Chauncey R., *et al.* (See Hachmann, Frederick, assignor.)
Watson, Hugh C., Denver, Colo. Surveying instrument. No. 1,348,258; Aug. 3; v. 277; p. 26.
Weaver, Albert T., Joliet, E. W. D. Laufer, Arlington Heights, and E. von Wintzingerode, Chicago, Ill., assignors to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Method of and apparatus for treating waste pickle liquor. No. 1,348,462; Aug. 3; v. 277; p. 65.
Weaver, Lennox G., Portland, Oreg. Course-indicator. No. 1,348,191; Aug. 3; v. 277; p. 11.
Webb, Arthur B., Watertown, Wis., assignor to W. N. Smith, Chicago, Ill. Tractor. No. 1,348,192; Aug. 3; v. 277; p. 11.
Webb, George C., and T. T. Pottenger, Pittsburgh, Pa. Concrete floor. No. 1,348,610; Aug. 3; v. 277; p. 93.
Webb, Jean F., Sr., New York, N. Y. Aeroplane. No. 1,348,463; Aug. 3; v. 277; p. 65.
Webber, Leonard E. (See Alderbruck, H. G., and Webber.)
Weed Differential-Rotary Motor Company. (See Weed, Howard L., assignor.)
Weed, Howard L., assignor to Weed Differential-Rotary Motor Company, Detroit, Mich. Cylinder-forming process. No. 1,348,674; Aug. 3; v. 277; p. 106.
Weed, Howard L., assignor to Weed Differential-Rotary Motor Company, Detroit, Mich. Rotary engine. No. 1,348,675; Aug. 3; v. 277; p. 106.
Weeks, John B., Corinth, Miss. Picket-fence strand. No. 1,348,765; Aug. 3; v. 277; p. 122.
Weis, John P., assignor, by mesne assignments, of one-half to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Sewing-machine and cutting mechanism therefor. No. 1,348,526; Aug. 3; v. 277; p. 76.
Weis, John P., assignor of one-half to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Lubricating system and sewing-machine construction. No. 1,348,527; Aug. 3; v. 277; p. 77.
Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Reeling apparatus. No. 1,348,193 Aug. 3; v. 277; p. 12.
Wenger, Arthur W. (See Rodgers, E. E., and Wenger.)
Wescott, William B., Wellesley, assignor to Kalmus, Comstock & Wescott, Inc., Boston, Mass. Trocar. No. 1,348,194; Aug. 3; v. 277; p. 12.
West, Alver L. (See Pontius, M. R., and West.)
Westall, John, Fall River, Mass. Crude-oil burner. No. 1,348,528; Aug. 3; v. 277; p. 77.
Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Nicholson, Frank T. and J. M., assignors.)
Wheatley, Daniel Y., Hythe, England. Balance-plow. No. 1,348,464; Aug. 3; v. 277; p. 65.
Whitaker, Milton C., and W. F. Rittman, New York, N. Y. assignors to Synthetic Hydro-Carbon Company, Pittsburgh, Pa. Apparatus for manufacture of gas. No. 1,348,766; Aug. 3; v. 277; p. 122.
White, Addison O., High Point, N. C. Machine for burning in bearings and limbering up motors. No. 1,348,611; Aug. 3; v. 277; p. 94.
White, Fred E., assignor to Central Oil & Gas Stove Co., Gardner, Mass. Threadless rod or bolt. No. 1,348,767; Aug. 3; v. 277; p. 123.
Whitlock, Allen, Pueblo, Colo. Clothespin. No. 1,348,465; Aug. 3; v. 277; p. 65.
Whitnell, Charles O., Des Moines, Iowa. Metal-frame construction. No. 1,348,529; Aug. 3; v. 277; p. 77.
Whittmann, Frank. (See Gay, George L., assignor.)
Wilber, Hugh L., Kansas City, Mo., assignor to The Wilberite Roofing Company, Cleveland, Ohio. Roofing material and preparing same. No. 1,348,259; Aug. 3; v. 277; p. 26.
Wilberite Roofing Company, The. (See Wilber, Hugh L., assignor.)
Willard, Thomas, San Bruno, Calif. Electrode-holder. No. 1,348,530; Aug. 3; v. 277; p. 77.
Williams, Edward H., New Orleans, La. Savings safety-box. No. 1,348,768; Aug. 3; v. 277; p. 123.
Williams, Louis N. D., Ogontz, Pa. Device for transferring and doubling knitted webs. No. 1,348,195; Aug. 3; v. 277; p. 12.
Willingham, John W., Honolulu, Hawaii. Ash-tray. No. 1,348,676; Aug. 3; v. 277; p. 106.
Willis, Glenn H., assignor to The Miller Rubber Company, Akron, Ohio. Separable core. No. 1,348,612; Aug. 3; v. 277; p. 94.
Williston, Benjamin F. (See Mock, J. C., Williston, and Fitzgerald.)
Willma, John T., *et al.* (See Willma, Theodor J., assignor.)
Willma, Theodos J., assignor of one-eighth to P. Waraxa and one-eighth to J. T. Willma, Milwaukee, Wis. Toe-steamer. No. 1,348,340; Aug. 3; v. 277; p. 42.
Wills, Frank M., Elgin, Ill. Tonneau-table for automobiles and the like. No. 1,348,613; Aug. 3; v. 277; p. 94.
Winer, Ignac P., Warsaw, Russian Poland. Apparatus for treating feed-water. No. 1,348,196; Aug. 3; v. 277; p. 12.
Winkley, Erastus E., Lynn, Mass. Machine for packaging materials. No. 1,348,341; Aug. 3; v. 277; p. 42.
Winslow, Charles H., *et al.* (See Kipp, George E., assignor.)
Winslow, Hardin E., assignor of one-fourth to R. C. Wisner, Spokane, Wash. Motor-vehicle. No. 1,348,385; Aug. 3; v. 277; p. 50.
Winslow, Paul T., *et al.* (See Kipp, George E., assignor.)
Wisner, Rolla C. (See Winslow, Hardin E., assignor.)
Witter, Claude A., Philadelphia, Pa. Manufacturing metallic shapes. No. 1,348,677; Aug. 3; v. 277; p. 106.
Witter, Claude A., Philadelphia, Pa. Railway-rail. No. 1,348,678; Aug. 3; v. 277; p. 106.
Wolfe, Harry M., New York, N. Y. Wing. No. 1,348,679; Aug. 3; v. 277; p. 107.
Woltz, Albert M., assignor to S. Himmel, Baltimore, Md. Door-equalizer. No. 1,348,680; Aug. 3; v. 277; p. 107.
Wood, Leander W., Fontanelle, Iowa. Tire. No. 1,348,614; Aug. 3; v. 277; p. 94.
Wood, Winfield C., Minneapolis, Minn. Tire-patch. No. 1,348,466; Aug. 3; v. 277; p. 66.
Wright, Charles F., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making boxes. No. 1,348,197; Aug. 3; v. 277; p. 12.
Wright, H. A., *et al.* (See Hachmann, Frederick, assignor.)
Wright, Ida C. (See Wright, Wilfred J., assignor.)
Wright, Wilfred J., assignor to I. C. Wright, Summit, N. J. Fountain-brush. No. 1,348,681; Aug. 3; v. 277; p. 107.
Wronowski, Piotr, Youngstown, Ohio. Mechanical toy. No. 1,348,386; Aug. 3; v. 277; p. 51.
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Lubricating device. No. 1,348,769; Aug. 3; v. 277; p. 123.
Young, William A., New York, N. Y. Manufacturing grommets. No. 1,348,615; Aug. 3; v. 277; p. 94.
Zieche, Paul R., Moville township, Woodbury county, assignor of one-half to W. Haviland, Moville, Iowa. Wrench. No. 1,348,342; Aug. 3; v. 277; p. 42.
Zielezinski, Stefan, Boston, Mass. Shipping-package. No. 1,348,682; Aug. 3; v. 277; p. 107.
Zimmerman, Charles P., Dayton, Ohio, assignor, by mesne assignments, to The Richmond-Standard Manufacturing Company, Richmond, Ind. Stock-rack. No. 1,348,343; Aug. 3; v. 277; p. 42.
Zimmerman, Clarence C., assignor to National Surface Guard Company, Chicago, Ill. Rail-saw. No. 1,348,616; Aug. 3; v. 277; p. 94.
Zorger, William H., Champaign, Ill. Electric headlight. No. 1,348,617; Aug. 3; v. 277; p. 95.
Zorger, William H., Champaign, Ill. Lens for automobiles. No. 1,348,618; Aug. 3; v. 277; p. 95.
Zycki, Alfons, Baltimore, Md. Hall utensil. No. 1,348,619; Aug. 3; v. 277; p. 95.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Allen, Edgar W., Campbell, Calif. Adjustable industrial seat. No. 55,927; Aug. 3; v. 277; p. 136.
Bigelow Hartford Carpet Company. (See Speck, James G., assignor.)
Brown, Lanville A., Kansas City, Mo. Bed. No. 55,928; Aug. 3; v. 277; p. 136.
Case, Willard T., New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis. Grass mat. Nos. 55,929–35; Aug. 3; v. 277; pp. 136–7.
Cheley, Frank H., Denver, Colo., assignor to The International Committee of The Young Men's Christian Association, New York, N. Y. Badge, emblem, insignia, or article of similar nature for a Young Men's Christian Association sweater front or for like personal wear. No. 55,936; Aug. 3; v. 277; p. 137.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Arm comprising a lighting-fixture part. No. 55,937; Aug. 3; v. 277; p. 137.
Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Lighting-fixture canopy. No. 55,938; Aug. 3; v. 277; p. 138.
Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Socket-cover. No. 55,939; Aug. 3; v. 277; p. 138.
Cornish, Harry S., Chicago, Ill. Draft-arm for liquid-dispensing apparatus. No. 55,940; Aug. 3; v. 277; p. 138.
De Kazarine, Serge. (See de Porohovchikova, M., and de Kazarine.)
Deltox Grass Rug Company. (See Case, Willard T., assignor.)
Democracy Playing Card Company. (See Gaffney, James C., assignor.)
De Porohovchikova, Mary, and S. de Kazarine, London, England. Dressed doll. Nos. 55,955–6; Aug. 3; v. 277; p. 141.
Duncan, John A., Jr., St. Joseph, Mo. Button. No. 55,941; Aug. 3; v. 277; p. 138.
Feuerlicht, James, New York, N. Y. Doll. No. 55,942; Aug. 3; v. 277; p. 138.
Findlay, Robert, Manufacturing Co. (See Kostszewski, Stephen, assignor.)
Gaffney, James C., New York, N. Y., assignor to Democracy Playing Card Company, Incorporated. Playing-card. No. 55,943; Aug. 3; v. 277; p. 138.
Goodrich, B. F., Company, The. (See Tew, James D., assignor.)
Gray, Annie E., Philadelphia, Pa. Coat. No. 55,944; Aug. 3; v. 277; p. 139.
Haskell, Adam, Lookout Mountain, Tenn. Portable serving-table. No. 55,945; Aug. 3; v. 277; p. 139.
Hirsch, Lee, New York, N. Y. Jewelry—namely, a pin, brooch, ring, or article of similar nature. No. 55,946; Aug. 3; v. 277; p. 139.
Horn, Fred A., Denver, Colo. Highway advertising and directing device. No. 55,947; Aug. 3; v. 277; p. 139.
Hygrade Lighting Fixture Corporation. (See Cohn, Harry, assignor.)
International Committee of The Young Men's Christian Association, The. (See Cheley, Frank H., assignor.)
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 55,948; Aug. 3; v. 277; p. 139.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,949; Aug. 3; v. 277; p. 140.
Lasier, Isabel C., Holliston, Mass. Middy-blouse. No. 55,950; Aug. 3; v. 277; p. 140.
Lloyd, Shirley S., New York, N. Y. Wall-paper. No. 55,951; Aug. 3; v. 277; p. 140.
Lion Electric Appliance Co. (See Ohm, Albert J. D., assignor.)
Mayer, Josh W., New York, N. Y. Jewel-setting. No. 55,952; Aug. 3; v. 277; p. 140.
Miller, Jacob, West Falls, N. Y. Clothesline-clamp. No. 55,953; Aug. 3; v. 277; p. 140.
Ohm, Albert J. D., Astoria, Oreg., assignor to Lion Electric Appliance Co., Brooklyn, N. Y. Electric lamp. No. 55,954; Aug. 3; v. 277; p. 140.
Reliance Metal Spinning & Stamping Co. (See Cohn, Harry, assignor.)
Reynolds, Bernard R., Kansas City, Kans. Pin or similar device for personal wear. No. 55,957; Aug. 3; v. 277; p. 141.
Rohr, Marshall J., Washington, D. C. Toy. No. 55,958; Aug. 3; v. 277; p. 141.
Russell, Mary L., New York, N. Y. Figurette. No. 55,959; Aug. 3; v. 277; p. 141.
Simon, Vincent N., Chicago, Ill. Illusion device. No. 55,960; Aug. 3; v. 277; p. 141.
Speck, James G., Philadelphia, Pa., assignor to Bigelow Hartford Carpet Company. Rug. No. 55,961; Aug. 3; v. 277; p. 142.
Squier, Bernice and B., Battle Creek, Mich. Doll. No. 55,962; Aug. 3; v. 277; p. 142.
Squier, Bernice and B., Battle Creek, Mich. Toy animal. No. 55,963; Aug. 3; v. 277; p. 142.
Squier, Blanche. (See Squier, Bernice and B.)
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Taber, George H., Binghamton, N. Y. Combined muffler and cut-out. No. 55,964; Aug. 3; v. 277; p. 142.
Tennent, Walter J., Norfolk, Va. Shield, badge, button, pin, or similar article. No. 55,965; Aug. 3; v. 277; p. 142.
Tew, James D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic-tire tread. No. 55,966; Aug. 3; v. 277; p. 142.
Weeks, Frank A., Plainfield, N. J. Inkstand. Nos. 55,967–8; Aug. 3; v. 277; p. 143.
Weeks, Frank A., Plainfield, N. J. Cover for inkstands. No. 55,969; Aug. 3; v. 277; p. 143.
Worth, George E., Rochester, N. Y. Toy vehicle. No. 55,970; Aug. 3; v. 277; p. 143.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbott, Edwin A., Wilkes-Barre, Pa. Chemical preparation for the removal of metal from oxid. No. 135,553; Aug. 3; v. 277; p. 169.
Achilles Rubber and Tire Company, Inc., Binghamton, N. Y. Rubber tire casings and tubes, belting, &c. No. 133,554; Aug. 3; v. 277; p. 169.
Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. Nos. 133,555–6; Aug. 3; v. 277; p. 169.
Adelmann, Clarence N., Newark, N. J. Garments for women and children. No. 133,557; Aug. 3; v. 277; p. 169.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Dispensing-cabinets for paper towels or toilet-papers. No. 133,558; Aug. 3; v. 277; p. 169.
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Cockshaw, Herbert, assignor to Mary Arden Corset Company, Inc., New York, N. Y. Corsets. No. 133,617; Aug. 3; v. 277; p. 171.
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Lion Brewery of New York City, New York, N. Y. Malt beverages, extracts, and liquors. No. 133,722; Aug. 3; v. 277; p. 174.
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Monument Pottery Co., The, Trenton, N. J. Plumbing supplies. No. 133,753; Aug. 3; v. 277; p. 175.
Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Wool gloves. No. 133,754; Aug. 3; v. 277; p. 175.
Movette, Incoporated, Rochester, N. Y. Motion-picture sundries. No. 133,755; Aug. 3; v. 277; p. 175.
Moyer, Walter W., Ephrata, Pa. Ladies' vests and unionsuits of knitted fabric. No. 133,756; Aug. 3; v. 277; p. 175.
Munro, Allan P., Cincinnati, Ohio. Non intoxicating maltless beverage. No. 133,757; Aug. 3; v. 277; p. 175.
Nagle, W. E., & Son, Pittsburgh, Pa. Rivet-sets, chisel-blanks, reamers, and drills. No. 133,758; Aug. 3; v. 277; p. 175.
Napco Corporation, The, Indianapolis, Ind. Glue. No. 133,759; Aug. 3; v. 277; p. 175.
National Cloak & Suit Co., New York, N. Y. Ladies' and misses' blouses. No. 133,760; Aug. 3; v. 277; p. 175.
National Conduit & Cable Company, Inc., Hastings-on-Hudson, N. Y. Bare copper wire and cable, sheet brass and bronze, and brass and bronze rods. No. 133,761; Aug. 3; v. 277; p. 175.
National Water-Proofing Company, Memphis, Tenn. Water-proof clothing or coverings consisting of raincoats, leggings, and puttees. No. 133,764; Aug. 3; v. 277; p. 175.
Nardi, Pasquali, New York, N. Y. Ladies' riding habits. No. 133,776; Aug. 3; v. 277; p. 176.
Nemser, Joseph, New York, N. Y. Ladies' gowns for outer wear. No. 133,765; Aug. 3; v. 277; p. 175.
New York Belting and Packing Company, New York, N. Y. Rubber belting. No. 133,766; Aug. 3; v. 277; p. 175.
Nineteen Hundred Washer Company, The, Binghamton, N. Y. Clothes-washing machine. No. 133,767; Aug. 3; v. 277; p. 175.
Northwestern Brewers Supply Co., Milwaukee, Wis. Malt syrup used in the preparation of non-alcoholic malt beverages. No. 133,768; Aug. 3; v. 277; p. 175.
Norwalk Tire and Rubber Company, Inc., The, Norwalk, Conn. Elastic vehicle-tires. No. 133,769; Aug. 3; v. 277; p. 175.
Ostrowsky, H., Co., Chicago, Ill. Clothing. No. 133,770; Aug. 3; v. 277; p. 176.
Pacific Mill and Mine Supply Company, San Francisco, Calif. Beltings, lacings, packings, and hose. No. 133,773; Aug. 3; v. 277; p. 176.
Page, Handley, Limited, London, England. Aeroplane packing cases and crates. No. 133,695; Aug. 3; v. 277; p. 173.
Palmer, E. J., Chicago, Ill. Metal-polish. No. 133,774; Aug. 3; v. 277; p. 176.
Paskle, D. R., & Co., New York, N. Y. Coat-collars. No. 133,775; Aug. 3; v. 277; p. 176.
Pep Spark Plug Company, Minneapolis, Minn. Spark-plugs. No. 133,778; Aug. 3; v. 277; p. 176.
Penslar Company, The, Detroit, Mich. Dentifrice. No. 133,777; Aug. 3; v. 277; p. 176.
Piano Motors Corporation, Camden, N. J. Electrically-operated vacuum-creating apparatus for piano-players. No. 133,779; Aug. 3; v. 277; p. 176.
Pioneer Overall Company, The, Paterson, N. J. Overalls. No. 133,781; Aug. 3; v. 277; p. 176.
Platt, Bert, & Co., Wichita, Kans. Decarbonizer for cylinders of automobile-engines. No. 133,782; Aug. 3; v. 277; p. 176.
Priscilla Company, The, Boston, Mass. Children's clothing. No. 133,785; Aug. 3; v. 277; p. 176.
Radin, Harry R., Newark, N. J. Containers and sterilizers for tooth-brushes. No. 133,786; Aug. 3; v. 277; p. 176.
Ramsey, Porter E., Richmond, Va. Spark boosters and intensifiers. No. 133,784; Aug. 3; v. 277; p. 176.
Red "C" Oil Manufacturing Co., Baltimore, Md. Soaps. No. 133,787; Aug. 3; v. 277; p. 176.
Regal Polishing Cloth Co., Chicago, Ill. Polishing and wiping cloth. No. 133,788; Aug. 3; v. 277; p. 176.
Reichmann & Faust, New York, N. Y. Composition hair-pins, wire hairpins, hair-fasteners, &c. No. 133,790; Aug. 3; v. 277; p. 176.
Reliance Manufacturing Company, Chicago, Ill. Workshirts. No. 133,791; Aug. 3; v. 277; p. 176.
Remington Arms Union Metallic Cartridge Co. Inc., assignor to Remington Arms Company, Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; Hoboken, N. J., and New York, N. Y. Military and sporting rifles, shotguns, pistols, &c. No. 133,792; Aug. 3; v. 277; p. 176.
Remington Arms Company, Inc. (See Remington Arms Union Metallic Cartridge Co., assignor.)
Republic Distributing Corporation, New York, N. Y. Motion-picture films. No. 133,793; Aug. 3; v. 277; p. 176.
Reuben and Zukerman, Inc., New York, N. Y. Ladies' Waists. No. 133,794; Aug. 3; v. 277; p. 176.
Rex Paint Corporation, New York, N. Y. Ready-mixed paint, ready-mixed inside and outside enamels, colors in oil, and varnish. No. 133,795; Aug. 3; v. 277; p. 176.
Rice-Stix Dry Goods Company, St. Louis, Mo. Dresses and middy-blouses. No. 133,796; Aug. 3; v. 277; p. 106.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Non-alcoholic maltless non-cereal beverages. No. 133,797; Aug. 3; v. 277; p. 176.
Riverside Boiler Works, Inc., Cambridgeport, Mass. Tanks and tanks for hot water known as stand or range boilers. No. 133,798; Aug. 3; v. 277; p. 176.
Roach, W. R., & Co., Hart, Mich. Food products. No. 133,799; Aug. 3; v. 277; p. 176.
Rochester Washing Machine Corp., Rochester, N. Y. Clothes-washing machines. No. 133,800; Aug. 3; v. 277; p. 176.
Rodgers Hosiery Company, Incorporated, Philadelphia, Pa. Hosiery. No. 133,801; Aug. 3; v. 277; p. 177.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. Nos. 133,802–3; Aug. 3; v. 277; p. 177.
Rosenthal, Charles, New York, N. Y. Sanitary paper drinking-cups. No. 133,804; Aug. 3; v. 277; p. 177.
Rowbottom, Thos., Co., New York, N. Y. Cotton and linen embroideries in the piece. No. 133,789; Aug. 3; v. 277; p. 176.
Rubens, Leon F., Philadelphia, Pa. Clothing. No. 133,805; Aug. 3; v. 277; p. 177.
Russell, John, Cutlery Company, Turners Falls, Mass. Pocket, table, butcher, and trade knives. Nos. 133,806–7; Aug. 3; v. 277; p. 177.
Sargoy Bros., Brooklyn, N. Y. Washboilers. No. 133,808; Aug. 3; v. 277; p. 177.
Schaeffer, Charles P., Reading, Pa. Shoe-laces. No. 133,809; Aug. 3; v. 277; p. 177.
Schlup, Samuel, Cambridge, Ohio. Ointment for la-grippe, colds, inflammation, and congestion. No. 133,810; Aug. 3; v. 277; p. 177.
Schwartz, Max A., New York, N. Y. Rubber tires. No. 133,811; Aug. 3; v. 277; p. 177.
Sealright Company, Inc., Fulton, N. Y. Receptacles. No. 133,812; Aug. 3; v. 277; p. 177.
Searle, Robinson P., Toledo, Ohio. Lubricating oils and greases. Nos. 133,813–14; Aug. 3; v. 277; p. 177.
Seidel, William B., Reading, Pa. Hosiery for men and women. No. 133,815; Aug. 3; v. 277; p. 177.
Selby, John A., Camden, N. J. Liquid polish for pianos, furniture, and other painted or varnished surfaces. No. 133,817; Aug. 3; v. 277; p. 177.
Selby, John A., Camden, N. J. Powder for cleaning white shoes and clothing. No. 133,816; Aug. 3; v. 277; p. 177.
Shapiro Bros. & Mirsky, Los Angeles, Calif. Ladies' waists for outer wear. No. 133,818; Aug. 3; v. 277; p. 177.
Sidel-Rattner Manufacturing Company, Brooklyn, N. Y. Automatic-tire pumps and grease guns. No. 133,819; Aug. 3; v. 277; p. 177.
Simmons Hardware Company, St. Louis, Mo. Golf-clubs, fishing-rods, reels, minnow seines and nets, caddy-bags. No. 133,821; Aug. 3; v. 277; p. 177.
Simmons Hardware Company, St. Louis, Mo. Razor-blades. No. 133,820; Aug. 3; v. 277; p. 177.
Simpson, W., Sons & Co., Philadelphia, Pa. Cotton piece goods. No. 133,822; Aug. 3; v. 277; p. 177.
Single, John, Syracuse, N. Y. Paper bags. Nos. 133,823–4; Aug. 3; v. 277; p. 177.
"Snaplok," Inc., New York, N. Y. Snap-fasteners. No. 133,825; Aug. 3; v. 277; p. 177.
Sowell, E. E., Sacramento, Calif. Plows. No. 133,826; Aug. 3; v. 277; p. 177.
"Spearmint" Co., The, Stillwater, Minn. Non-alcoholic non-intoxicating maltless non-cereal syrup. No. 133,827; Aug. 3; v. 277; p. 177.
St. Louis Brass Mfg. Co., St. Louis, Mo. Electric-lighting fixtures. Nos. 133,839–40; Aug. 3; v. 277; p. 178.
Standard Accessory Corporation, Milwaukee, Wis. Electrical-lighting attachments for sound-reproducing machines. No. 133,829; Aug. 3; v. 277; p. 177.
Starlight, Max E., New York, N. Y. Cigars and cheroots. Nos. 133,830–3; Aug. 3; v. 277; p. 177.
Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-feeding systems for internal-combustion engines. No. 133,834; Aug. 3; v. 277; p. 177.
Strand, N. A., & Company, Chicago, Ill. Flexible shafting. No. 133,835; Aug. 3; v. 277; p. 178.
Straus, Royer & Strauss, Inc, Baltimore, Md. Middy-blouses. No. 133,836; Aug. 3; v. 277; p. 178.
Straus, Moses, San Francisco, Calif. Self-vulcanizing patches. No. 133,837; Aug. 3; v. 277; p. 178.
Stuart, Orsini, Liverpool, England. Ash and coal bags. No. 133,838; Aug. 3; v. 277; p. 178.
Summer, Henry H., Jackson, Tenn. Non-alcoholic, non-cereal, maltless beverages, and flavors for same. No. 133,841; Aug. 3; v. 277; p. 178.
Sutton, Henry C., Rising Star, Tex. Washing-powder. No. 133,842; Aug. 3; v. 277; p. 178.
Swanson Bros., Chicago, Ill. Coffee. No. 133,843; Aug. 3; v. 277; p. 178.
Talbert-Whitmore Company, Los Angeles, Calif. Paper window-shades. No. 133,845; Aug. 3; v. 277; p. 178.
Taylor, Isaac H., Atlanta, Ga. Liver-pills. No. 133,846; Aug. 3; v. 277; p. 178.
Tewksbury, J. Winthrop, New York, N. Y. Electrical heaters for air. No. 133,874; Aug. 3; v. 277; p. 179.
Thayer, Henry, & Co. Inc., Cambridge, Mass. Liniment for use in certain named ailments. No. 133,847; Aug. 3; v. 277; p. 178.
Tobacco Products Export Corporation, New York, N. Y. Cigarettes. No. 133,844; Aug. 3; v. 277; p. 178.
Tomlinson, W. H., & Co., Bay City, Mich. Leather shoes. No. 133,849; Aug. 3; v. 277; p. 178.

Underdown, Americus R., Haddonfield, N. J. Clothing. No. 133,851; Aug. 3; v. 277; p. 178.
United Drug Company, Boston, Mass. Candy. No. 133,853; Aug. 3; v. 277; p. 178.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Floor-covering made of rubber compound. No. 133,856; Aug. 3; v. 277; p. 178.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Jar-rings. No. 133,857; Aug. 3; v. 277; p. 178.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Hose made of fabric and rubber. No. 133,858; Aug. 3; v. 277; p. 178.
United Stay Company, Cambridge, Mass. Bindings, pipings, facings, and trimmings of leather for use in the manufacture of shoes. No. 133,855; Aug. 3; v. 277; p. 178.
United Stay Company, Cambridge, Mass. Stays, straps, &c., for use in the manufacture of harness, trunks, and bags. No. 133,854; Aug. 3; v. 277; p. 178.
Universal Beverage Company, St. Louis, Mo. Carbonated soda-water. No. 133,852; Aug. 3; v. 277; p. 178.
Vermont Maple Syrup Company, Inc., Essex Junction, Vt. Maple table-syrup. No. 133,859; Aug. 3; v. 277; p. 178.
Victor Water Motor Corporation, New York, N. Y. Water-motors. No. 133,860; Aug. 3; v. 277; p. 178.
Victory Bag & Paper Co., Chicago, Ill. Paper bags. No. 133,861; Aug. 3; v. 277; p. 178.
Waldes & Co., Prague, Bohemia. Fancy goods, furnishings, and notions. No. 133,863; Aug. 3; v. 277; p. 178.
Waldes & Co., Prague, Bohemia. Placket, glove, and snap-fasteners, buttons, clasps. No. 133,862; Aug. 3; v. 277; p. 178.
Walker, R., & Sons, Limited, Leicester, England. Clothing. No. 133,864; Aug. 3; v. 277; p. 178.
Watkins, John R., Norfolk, Va. Hair-tonic and toilet deodorant. No. 133,880; Aug. 3; v. 277; p. 179.
Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Sweater-coats. No. 133,865; Aug. 3; v. 277; p. 178.
Weinhard, Henry, Estate, Portland, Oreg. Non-intoxicating malt beverage. No. 133,866; Aug. 3; v. 277; p. 178.
Weinthrop Company, The, Chicago, Ill. Games. No. 133,867; Aug. 3; v. 277; p. 179.
Wenzelmann, Gustave, Galesburg, Ill. Clothes-washing machines, clothes-wringers, and combinations and parts of same. No. 133,868; Aug. 3; v. 277; p. 179.
Western Wheeled Scraper Company, Aurora, Ill. Vehicles. No. 133,869; Aug. 3; v. 277; p. 179.
White Star Canning Co., East San Pedro, Calif. Canned tuna fish. No. 133,870; Aug. 3; v. 277; p. 179.
White-Valentine Company, Urbana, Ohio. Brooms. No. 133,871; Aug. 3; v. 277; p. 179.
Wiener, Henry, New York, N. Y. Certain named articles mounted in precious metals. No. 133,872; Aug. 3; v. 277; p. 179.
Wilson, Edward, St. Louis, Mo. Piston-rings. No. 133,875; Aug. 3; v. 277; p. 179.
Winchester Repeating Arms Co., New Haven, Conn. Dry-cell battaries. No. 133,873; Aug. 3; v. 277; p. 179.
Wiltsey, Charles E., East Orange, N. J. Filter for smoking-pipes. No. 133,876; Aug. 3; v. 277; p. 179.
Worsnop, Charles H., Halifax, England. Chemical preparation used as an electrolyte in electrical accumulators. No. 133,877; Aug. 3; v. 277; p. 179.
Worsnop, Charles H., Halifax, England. Electrical accumulators. No. 133,878; Aug. 3; v. 277; p. 179.
Wortendyke Manufacturing Company, Richmond, Va. Paper bags. No. 133,879; Aug. 3; v. 277; p. 179.
Wyman Partridge & Co., Minneapolis, Minn. Men's knit underwear and sweaters. No. 133,882; Aug. 3; v. 277; p. 179.
Wyman Partridge & Co., Minneapolis, Minn. Men's and boys' overcoats. No. 133,881; Aug. 3; v. 277; p. 179.
Young and Klots, New York, N. Y. Varnish, ready-mixed paints, roofing-paints, enamels, and lacquers. No. 133,883; Aug. 3; v. 277; p. 179.
Zellerbach Paper Company, San Francisco, Calif. Twine. No. 133,884; Aug. 3; v. 277; p. 179.
Zofsak, John J., Greensburg, Pa. Hair-grower. No. 133,885; Aug. 3; v. 277; p. 179.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allaire, Woodward & Co., Peoria, Ill. "Helox-Antiseptic Healing Powder Veterinary." (For Antiseptic Healing-Powder.) No. 21,926; Aug. 3; v. 277; p. 180.
Baker, Henry A., Puyallup, Wash. "Dewkist." (For Strawberries.) No. 21,927; Aug. 3; v. 277; p. 180.
Barna, Peter, New York, N. Y. "Princess Mackerel." (For Canned, Cooked, and Seasoned Mackerel.) No. 21,928; Aug. 3; v. 277; p. 180.
Beech-Nut Packing Company, Canajoharie, N. Y. "Lime Drops." (For Candies.) No. 21,929; Aug. 3; v. 277; p. 180.
Bo-Kay Perfume Company, New York, N. Y., and Jacksonville, Fla. "Queen of Talcums." (For Talcum Powders.) No. 21,930; Aug. 3; v. 277; p. 180.
Brown, Alfred J., Seed Company, Grand Rapids, Mich. "Sweet Corn." (For Seed-Corn.) No. 21,931; Aug. 3; v. 277; p. 180.
Burgess Battery Company, Madison, Wis. Burgess Uniplex Battery. (For Electric Batteries.) No. 21,932; Aug. 3; v. 277; p. 180.
Cairo Food Products Company, Cairo, Ill. "Goodest-Ever." (For Soda-Water.) No. 21,933; Aug. 3; v. 277; p. 180.
Cairo Food Products Company, Cairo, Ill. "Goodest-Ever." (For Ice-Cream.) No. 21,934; Aug. 3; v. 277; p. 180.
Colker, Abraham, Newport, Ky. Milo Fruit Chewing Gum." (For Chewing-Gum.) No. 21,935; Aug. 3; v. 277; p. 180.
Drackett, P. W., and Sons Company, The, Cincinnati, Ohio. "Kee-Ko." (For a Washing Preparation.) No. 21,936; Aug. 3; v. 277; p. 180.
Henschel, C. B., Mfg. Co., Milwaukee, Wis. "Dolores." (For Cigars.) No. 21,937; Aug. 3; v. 277; p. 180.
Fox Candy Company, Oakland, Calif. "Lil Joe." (For Candies.) No. 21,938; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Jute Clothes Line." (For Jute Clothesline.) No. 21,939; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Sisal Clothes Line." (For Sisal Clothesline.) No. 21,940; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best New Zealand Hemp Clothes Line." (For New Zealand Hemp Clothesline.) No. 21,941; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Istle Clothes Line." (For Istle Clothesline.) No. 21,942; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Mauritius Clothes Line." (For Mauritius Clothesline.) No. 21,943; Aug. 3; v. 277; p. 180.
Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Manila Clothes Line." (For Manila Clothesline.) No. 21,944; Aug. 3; v. 277; p. 180.
Julian, E. S., Athens, Tenn. "Amebacide Compound." (For Remedy for Pyorrhea.) No. 21,945; Aug. 3; v. 277; p. 180.
Kemi-Pluz Manufacturing Co., Jamaica Plain, Mass. "Kemi-Pluz Liquid Welding Solution." (For a Chemical Solution for Sealing Leaks in Automobile-Radiators and Steam-Boilers.) No. 21,946; Aug. 3; v. 277; p. 180.
McCord-Brady Company, Omaha, Nebr. "The Famous Brew." (For Coffee.) No. 21,947; Aug. 3; v. 277; p. 180.
Men-Tho-Eze Corporation, Fort Dodge, Iowa. "Men-Tho-Eze 'Grandma Knows.'" (For Ointment.) No. 21,948; Aug. 3; v. 277; p. 180.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Chocolate-Covered Cherries.) No. 21,949; Aug. 3; v. 277; p. 180.
Morse, A. G., Co., Chicago, Ill. "Value Received." (For Chocolates.) No. 21,950; Aug. 3; v. 277; p. 180.
Morse, A. G., Co., Chicago, Ill. "The Preferred Chocolates." (For Chocolates.) No. 21,951; Aug. 3; v. 277; p. 180.
Ohio Confection Company, The, Cleveland, Ohio. "Ditty Dotty." (For Candy.) No. 21,952; Aug. 3; v. 277; p. 180.
Pierson, A. L., Mfg. Co., Galveston, Tex. "Alp." (For Men's Drawers.) No. 21,953; Aug. 3; v. 277; p. 180.
Rosebeck Company, New York, N. Y. "Eversnap." (For Garment-Fastener.) No. 21,954; Aug. 3; v. 277; p. 180.
Sgobel and Day, New York, N. Y. "Our Pride." (For Apples.) No. 21,955; Aug. 3; v. 277; p. 180.
St. Joe Canning Co., St. Joseph, Mich. "Miracle." (For Canned Peaches.) No. 21,956; Aug. 3; v. 277; p. 180.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Acme Shear Company, The, Bridgeport, Conn. "For the Little Folks." (For Scissors and Shears.) No. 5,276; Aug. 3; v. 277; p. 180.
Associated Silver Company, Chicago, Ill. "'Yourex,' The Silver Plated Knives." (For Silver-Plated Knives.) No. 5,275; Aug. 3; v. 277; p. 180.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Sweet Birches." (For Candies.) No. 5,277; Aug. 3; v. 277; p. 180.
Lee Hardware Co., The, Salina, Kans. "You Can Do This With Nurex." (For Tabbing Compounds.) No. 5,279; Aug. 3; v. 277; p. 180.
Lee Hardware Co., The, Salina Kans. "What Tabbing Compound Permits This?" Only Nurex! (For Tabbing Compounds.) No. 5,278; Aug. 3; v. 277; p. 180.
Palmolive Company, The, Milwaukee, Wis. "The Price of Beauty." (For Soap.) No. 5,280; Aug. 3; v. 277; p. 180.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Abram, Isaac, Duluth, Minn. Women's waists, sweaters, coats, &c. No. 132,590; Aug. 3; v. 277; p. 164.
Advance Automobile Accessories Corp., Chicago, Ill. Fabric linings for transmissions and brakes. No. 113,221; Aug. 3; v. 277; p. 146.
American Agricultural Chemical Company, The, New York, N. Y. Fertilizer. No. 134,048; Aug. 3; v. 277; p. 167.
American Chicle Company, Jersey City, N. J., and New York, N. Y. Mints in tablet form. No. 116,872; Aug. 3; v. 277; p. 147.
American Oriental Sales Corporation, Seattle, Wash. Canned fish. No. 123,835; Aug. 3; v. 277; p. 150.
Arbuthnot Stephenson Co., Pittsburgh, Pa. Work-clothes. No. 130,712; Aug. 3; v. 277; p. 159.
Arguimbau & Ramée Inc., New York, N. Y. Olives. No. 127,674; Aug. 3; v. 277; p. 155.
Aro-Maco Products Co., West Hoboken, N. J. Mucilage, glue, or library-paste. No. 124,130; Aug. 3; v. 277; p. 151.
Atkinson, Frank H., Canton, Ohio. Healing, catarrh, pile, &c., ointment. No. 127,233; Aug. 3; v. 277; p. 154.
Atlantic Rubber Mfg. Corporation, New York, N. Y. Dental rubber and dam, bulbs for dental use, &c. No. 131,372; Aug. 3; v. 277; p. 161.
Backé, Tod, Brooklyn, N. Y. Candies. No. 131,377; Aug. 3; v. 277; p. 161.
Ballis, E. R., & Bro., Inc., New York, N. Y. Hosiery and underwear. No. 132,912; Aug. 3; v. 277; p. 165.
Baltimore Bargain House, Baltimore and Cumberland, Md. Monthly publications. No. 117,801½; Aug. 3; v. 277; p. 147.
Beaver Varnish Company, Inc., The, Buffalo, N. Y. Mixed paints in oil, varnishes, japans, &c. Nos. 132,076–7; Aug. 3; v. 277; p. 163.
Beck, Lucien P., Eagle Pass, Tex. Preparation used in treatment for burns, rheumatism, &c. No. 134,405; Aug. 3; v. 277; p. 168.
Beck, Lucien P., Eagle Pass, Tex. Preparation used in treatment for worms. No. 134,404; Aug. 3; v. 277; p. 168.
Bell Manufacturing Company, Inc., Richmond, Va. Liquid gasolene-intensifier. No. 118,042; Aug. 3; v. 277; p. 147.
Benedict, John F., Portsmouth, Ohio. Cleaning compound for use in laundries and dry-cleaning establishments. No. 133,396; Aug. 3; v. 277; p. 166.
Blair, J. C., Company, Huntingdon, Pa. Writing, pencil, drawing, and spelling tablets and blank-books. No. 111,128; Aug. 3; v. 277; p. 146.
Blattner, Abraham, Pittsburgh, Pa. Bow-ties. No. 132,039; Aug. 3; v. 277; p. 163.
Bowman-Moore Hat Company, Knoxville, Tenn. Caps and hats for men and boys. No. 128,826; Aug. 3; v. 277; p. 156.
Bowman-Moore Hat Company, Knoxville, Tenn. Hats and caps. No. 128,827; Aug. 3; v. 277; p. 157.
Brown Chemical Co., The, St. Louis, Mo. Toilet preparations. No. 127,353; Aug. 3; v. 277; p. 155.
Browning, Perry W., Washington, D. C. Coffee. No. 132,037; Aug. 3; v. 277; p. 163.
Candy Craft Shops, Inc., The, Chicago, Ill. Candy. No. 132,428; Aug. 3; v. 277; p. 164.
Capen Belting & Rubber Company, St. Louis, Mo. Leather, rubber, balata, &c., belting, hose, tires, &c. No. 125,774; Aug. 3; v. 277; p. 152.
Capitol Refining Co., South Washington, Va. Shortening or artificial lard. No. 133,182; Aug. 3; v. 277; p. 166.
Central Chemical Company, Hagerstown, Md. Fertilizing compounds. No. 131,380; Aug. 3; v. 277; p. 161.
Cereal Products Refining Company, San Francisco, Calif. Yeast. No. 121,749; Aug. 3; v. 277; p. 149.
Chemical National Bank of New York, The, New York, N. Y. Weekly bulletins, serial publications, &c. No. 119,737; Aug. 3; v. 277; p. 148.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece, &c. No. 133,652; Aug. 3; v. 277; p. 166.
Chernoff Company, San Francisco, Calif. Cosmetics. No. 115,496; Aug. 3; v. 277; p. 147.
Chicago Gum Tape Company, Chicago, Ill. Gummed and ungummed paper-sealing veneer and stay-tapes. No. 130,949; Aug. 3; v. 277; p. 160.
Congoleum Company, Inc., New York, N. Y. Linoleum and cork carpet. No. 133,727; Aug. 3; v. 277; p. 166.
Cossitt and Company, San Francisco, Calif. Photographic reproduction and prints. No. 130,752; Aug. 3; v. 277; p. 160.
Crown Cork and Seal Company of Baltimore City, The, Baltimore, Md. Monthly publications. No. 118,428; Aug. 3; v. 277; p. 148.
Cureton, Edward, San Francisco, Calif., assignor to John B. Studdert. Astringent treatment for sore soft bleeding gums, &c. No. 119,821; Aug. 3; v. 277; p. 148.
Daljar Mfg. Co., Boston, Mass. Oils and greases used in softening, sizing, and finishing cordage, &c. No. 126,114; Aug. 3; v. 277; p. 153.
Dallam, F. B., San Francisco, Calif. Wrapping-paper. No. 124,775; Aug. 3; v. 277; p. 152.
Dancy, Lucius H., Holly Springs, Miss. Preparation for the treatment of the hair. No. 125,946; Aug. 3; v. 277; p. 153.
Davies, Rose & Co., Ltd., Boston, Mass. Antiseptic throat-wash and gargle powder and tablets. No. 122,347; Aug. 3; v. 277; p. 150.
Davies, Rose & Co., Ltd., Boston, Mass. Indigestion-powders. No. 122,349; Aug. 3; v. 277; p. 150.
Davies, Rose & Co., Ltd., Boston, Mass. Kidney medicine. No. 126,110; Aug. 3; v. 277; p. 153.
Davies, Rose & Co., Ltd., Boston, Mass. Ointment for skin affections of the human body. No. 126,109; Aug. 3; v. 277; p. 153.
Davies, Rose & Co., Ltd., Boston, Mass. Pile treatment. No. 122,348; Aug. 3; v. 277; p. 150.
Davis, Bournonville Company, New York, N. Y., and Jersey City, N. J. Flux-powder for welding aluminum. No. 128,083; Aug. 3; v. 277; p. 155.
Denthol Company, The, Louisville, Ky. Antiseptic mouth and-tooth wash. No. 115,523; Aug. 3; v. 277; p. 147.
De Waltoff, Gerald M., Brooklyn, N. Y. Healing and yellow eye salve corn-remover, &c. No. 125,747; Aug. 3; v. 277; p. 152.
Dogan, Earl V., Washington, D. C. Scouring preparation to remove grease from clothing, &c. No. 130,089; Aug. 3; v. 277; p. 159.
Draughon, John F., Nashville, Tenn. Printed books. No. 130,467; Aug. 3; v. 277; p. 159.
Dryden Rubber Company, Chicago, Ill. Rubber automobile tires and inner tubes. No. 130,527; Aug. 3; v. 277; p. 159.
Dungan, Hood & Co., Inc., Philadelphia, Pa. Leather, particularly kid-leather. No. 133,185; Aug. 3; v. 277; p. 166.
East End Tire Company, Inc., Pittsburgh, Pa. Automobile-tire accessories. No. 116,201; Aug. 3; v. 277; p. 147.
Excello Clothing Co. Inc., Passaic, N. J. Mackinaws, mackintoshes, overcoats, and sport-coats. No. 132,347; Aug. 3; v. 277; p. 164.
Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies. Nos. 115,345–6; Aug. 3; v. 277; p. 146.
Faber, Eberhard, Brooklyn, N. Y. Lead-pencils, pencil-lengtheners, erasers, and penholders. No. 131,525; Aug. 3; v. 277; p. 162.
Farrow, J. W., Moline, Kans. Liquid preparation to be used internally for boils and carbuncles. No. 106,632; Aug. 3; v. 277; p. 145.
Feigel, M., & Bro. Inc., New York, N. Y. Glue. No. 133,575; Aug. 3; v. 277; p. 166.
Feinstein, P., & Sons, New York, N. Y. Clothing for outer wear for men. No. 130,163; Aug. 3; v. 277; p. 159.
Fenton, E. B. (M. D. C.) Olin, Iowa. Medical compounds for use in the treatment of diseases of the hog, horse, cattle, &c. No. 128,266; Aug. 3; v. 277; p. 156.
Fernley, George A., Philadelphia, Pa. Roofing made of tin. No. 126,119; Aug. 3; v. 277; p. 153.
Finlayson, Bousfield & Co., Ltd., Johnstone, Scotland. Yarn and threads. No. 125,954; Aug. 3; v. 277; p. 153.
Flickinger, S. M., Co. Inc., Buffalo, Jamestown, and Rochester, N. Y. Coffee. No. 131,788; Aug. 3; v. 277; p. 162.
Florence Citrus Growers Association, Florence Villa, Fla. Fresh citrus fruits. Nos. 132,520–1; Aug. 3; v. 277; p. 164.
Foster, Henry A., Rome, N. Y. Kidney, liver, and bladder tablets. No. 126,720; Aug. 3; v. 277; p. 153.
Fox River Valley Knitting Company, Appleton, Wis. Socks for men and children. No. 127,050; Aug. 3; v. 277; p. 154.
Freadrich, Joseph J., St. Louis, Mo. Leather belting. No. 122,428; Aug. 3; v. 277; p. 150.
Fumigo Manufacturing Co., Philadelphia, Pa. Fumigating compound. No. 127,908; Aug. 3; v. 277; p. 155.
Funk & Wagnalls Company, New York, N. Y. Moving-picture films. No. 132,230; Aug. 3; v. 277; p. 163.

General Candle Manufacturing Co., New York, N. Y. Candles. No. 129,059; Aug. 3; v. 277; p. 157.
Getz Bros. & Co. Inc., San Francisco, Calif. Substitute for gum-turpentine. No. 134,188; Aug. 3; v. 277; p. 167.
Goddard, Charles C., Tulsa, Okla. Salve used in the treatment of chronic sores. No. 125,226; Aug. 3; v. 277; p. 152.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Motor-driven balloons. No. 131,570; Aug. 3; v. 277; p. 162.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Motor-driven balloons. No. 131,791; Aug. 3; v. 277; p. 162.
Grand Union Tea Co., Brooklyn, N. Y. Toilet water, soda, lump-starch, &c. No. 124,890; Aug. 3; v. 277; p. 152.
Graton & Knight Manufacturing Company, The, Worcester, Mass. Aprons, box-toes, insoles, mittens, &c. No. 118,991; Aug. 3; v. 277; p. 148.
Grizzelle, Miles C., Le Roy, Ill. White collies intended for breeding purposes, and corn, wheat, &c. No. 127,180; Aug. 3; v. 277; p. 154.
H. K. H. Silk Co. of New York, Inc., New York, N. Y. Natural and artificial silk threads and yarns. No. 131,168; Aug. 3; v. 277; p. 160.
Halligan Candy Company, Davenport, Iowa. Candy. No. 132,175; Aug. 3; v. 277; p. 163.
Hammermill Paper Company, Erie, Pa. Writing, bond, and ledger-paper, envelops, &c. No. 132,305; Aug. 3; v. 277; p. 164.
Harvey Company, Huntington, W. Va. Store furniture. No. 113,916; Aug. 3; v. 277; p. 146.
Hermo Co., Chicago, Ill. Hair-dressing. No. 126,035; Aug 3; v. 277; p. 153.
Hollingworth, Horace, Leicester, England. Boots, shoes, and slippers of leather, cloth, canvas, &c. No. 132,738; Aug 3; v. 277; p. 165.
Hoyt, Peggy, Inc., New York, N. Y. Perfume, toilet water, cold-cream, face-powder, &c. No. 122,942; Aug. 3; v. 277; p. 150.
Hyman & Oppenheim, New York, N. Y. Hair-nets. No. 133,536; Aug. 3; v. 277; p. 166.
International Agricultural Corporation, New York, N. Y. Fertilisers. No. 132,642; Aug. 3; v. 277; p. 165.
International Consolidated Chemical Corporation, Inc., New York, N. Y. Anti-acid carminative stimulant to the stomach and digestive tract. No. 123,983; Aug. 3; v. 277; p. 151.
International Fur Exchange, St. Louis, Mo. Furs, skins, hides, and pelts. No. 128,928; Aug. 3; v. 277; p. 157.
J. E. M. Products Laboratories, Chicago, Ill. Mucilage holder and applier. No. 130,674; Aug. 3; v. 277; p. 159.
J. R. Waist & Dress Co., New York, N. Y. Ladies' and misses' outer waists. No. 131,757; Aug. 3; v. 277; p. 162.
Jantzen Knitting Mills, Portland, Oreg. Knitted sweaters, coats, gloves, suits, &c. No. 131,972; Aug. 3; v. 277; p. 162.
Jensen & Sons Milling & Grain Co., Nelson, Nebr. Wheat-flour. No. 118,210; Aug. 3; v. 277; p. 147.
Jordan Marsh Company, Boston, Mass. Sheets and pillow-cases. No. 134,207; Aug. 3; v. 277; p. 167.
Kaufman, S. E., Trenton, N. J. Clothesline-props. No. 127,248; Aug. 3; v. 277; p. 154.
Kenyon, C., Company, Brooklyn, N. Y. Men's, women's, and children's outer coats, overcoats, vests, &c. No. 131,393; Aug. 3; v. 277; p. 161.
Kenyon, C., Company, Brooklyn, N. Y. Waterproof fabrics in the piece. No. 131,737; Aug. 3; v. 277; p. 162.
Knoxville Knitting Mills Company, Knoxville, Tenn. Hosiery. No. 119,890; Aug. 3; v. 277; p. 149.
Kolb Brewing Co., Bay City, Mich. Non-alcoholic cereal beverage. No. 108,945; Aug. 3; v. 277; p. 145.
Ledder & Probst, Inc., Boston, Mass. Holders for ink-bottles. No. 119,523; Aug. 3; v. 277; p. 148.
Lee, Gilbert C., Los Angeles, Calif. Devices for preventing combustion. No. 134,133; Aug. 3; v. 277; p. 167.
Levac, Aime, Montreal, Quebec, Canada. Anti-insect powders. No. 124,656; Aug. 3; v. 277; p. 152.
Lewis, Newton, Fort Myers, Fla. Shampoo. No. 119,954; Aug. 3; v. 277; p. 149.
Lincoln Tire & Rubber Co., Cleveland, Cincinnati, Dayton, Youngstown, Toledo, Piqua, and Troy, Ohio, and Miami, Fla. Rubber vehicle-tires, casings, and tubes. No. 131,179; Aug. 3; v. 277; p. 160.
Liquid Carbonic Company, Chicago, Ill. Beverages, non-alcoholic. No. 104,140; Aug. 3; v. 277; p. 145.
Liquid Carbonic Company, Chicago, Ill. Flavoring-syrups. No. 104,138; Aug. 3; v. 277; p. 145.
Lloyd, Richard L., Minneapolis, Minn. Toy bowling-game apparatus. No. 127,295; Aug. 3; v. 277; p. 154.
Lloyd, William M., Company, Philadelphia, Pa. Coal. No. 129,899; Aug. 3; v. 277; p. 158.
Lurie, John, Inc., New York, N. Y. Men's golf and motoring suits, sweaters, gloves, shoes, &c. No. 131,487; Aug. 3; v. 277; p. 161.
McGlumphy, Anna M., Kenmore, Ohio. Cold and face cream, talcum and face powder. No. 127,970; Aug. 3; v. 277; p. 155.
Malts & Sims, New York, N. Y. Vanity-bags. No. 134,211; Aug. 3; v. 277; p. 167.
Mangone, Philip, Co., New York, N. Y. Ladies' suits and coats. No. 129,466; Aug. 3; v. 277; p. 158.
Mazierska, Helen, Buffalo, N. Y. Hair-tonic. No. 119,957; Aug. 3; v. 277; p. 149.
Mebane, A. D., Lockhart, Tex. Cotton-seed. No. 134,259; Aug. 3; v. 277; p. 167.
Migel, J. A., Inc., New York, N. Y. Silk piece goods, cotton and silk goods in the piece, &c. No. 128,453; Aug. 3; v. 277; p. 156.
Monteverde, P., & Co., San Francisco, Calif. Olive-oil. No. 132,872; Aug. 3; v. 277; p. 165.
Monteverde, P., & Co., San Francisco, Calif. Olive-oil. No. 132,873; Aug. 3; v. 277; p. 165.
National Art Company, New York, N. Y. Paper for box-coverings. No. 127,736; Aug. 3; v. 277; p. 155.
National Oil Products Co., Harrison, N. J. Turkey-red oils, sulfonated castor-oils, &c. No. 122,082; Aug. 3; v. 277; p. 149.
Newkirk, John L., & Company, New York, N. Y. Worm-syrup. No. 127,974; Aug. 3; v. 277; p. 155.
Nichols Copper Co., New York, N. Y. Electrolytic copper. No. 131,086; Aug. 3; v. 277; p. 160.
North American Fisheries & Cold Storage Ltd., Liverpool, Nova Scotia, Canada. Frozen, smoked, salted, and fresh fish. No. 131,439; Aug. 3; v. 277; p. 161.
Ohio State Rubber Tire Co., The, Port Clinton, Ohio. Pneumatic rubber tires and inner tubes. No. 129,277; Aug. 3; v. 277; p. 158.
Oldham New York Saw Works Inc., Brooklyn, N. Y. Circular, band, hand, and crosscut saws. No. 122,132; Aug. 3; v. 277; p. 149.
Palatine Aniline & Chemical Corporation, Poughkeepsie, N. Y. Dyes. No. 118,327; Aug. 3; v. 277; p. 147.
Palatine Aniline & Chemical Corporation, Poughkeepsie, N. Y. Dyes. No. 118,330; Aug. 3; v. 277; p. 147.
Park, J. Harry, Warren, Pa. Baseball-bats. No. 130,846; Aug. 3; v. 277; p. 160.
Paterson Brewing and Malting Company, Paterson, N. J. Hosiery. No. 130,847; Aug. 3; v. 277; p. 160.
Pearl Knitting Co. Inc., New York, N. Y. Sweaters, neckwear, capes, booties, gloves, &c. No. 129,244; Aug. 3; v. 277; p. 157.
Penick & Ford, Ltd. Inc., New Orleans, La. Table-syrup. No. 132,556; Aug. 3; v. 277; p. 164.
Pennsylvania Knitting Mills, The, Philadelphia, Pa. Knitted sweaters. No. 132,756; Aug. 3; v. 277; p. 165.
Plant, Thomas G., Company, Boston, Mass. Boots, shoes, slippers, and spats of leather, felt, silk, &c. No. 132,610; Aug. 3; v. 277; p. 165.
Pomeroy Ink Manufacturing Co., Newark, N. J. Mucilage, paste, and sealing-wax. No. 131,502; Aug. 3; v. 277; p. 161.
Progress Grocery Company Inc., New Orleans, La. Canned egg-plant, natural tomato paste with sweet basil, &c. No. 112,365; Aug. 3; v. 277; p. 146.
Queen City Marshmallow and Syrup Company, The, Cincinnati, Ohio. Non-alcoholic non-cereal maltless beverage. No. 116,584; Aug. 3; v. 277; p. 147.
Queen City Specialty Co., The, Cincinnati, Ohio. Cleanser and polish for automobiles, &c. No. 129,342; Aug. 3; v. 277; p. 158.
Readers' Publishing Corporation, New York, N. Y. Monthly publication. No. 134,272; Aug. 3; v. 277; p. 167.
Renaissance Corset Company, Inc., New York, N. Y. Corsets. No. 125,673; Aug. 3; v. 277; p. 162.
Review Publishing Company, New York, N. Y. Monthly publication. No. 128,799; Aug. 3; v. 277; p. 156.
Salz Brothers, assignors to Pencil Products Corporation, New York, N. Y. Magazine-pencils. No. 128,705; Aug. 3; v. 277; p. 156.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn.; Darby, Pa., and New York, N. Y. Cotton, worsted, mohair, and silk thread and yarn. No. 132,325; Aug. 3; v. 277; p. 164.
Sayer, Victor, New York, N. Y. Knitted garments. No. 128,278; Aug. 3; v. 277; p. 156.
Shepard Fruit Products Company, Wenatchee, Wash. Flaked and cooked fruits. No. 124,314; Aug. 3; v. 277; p. 151.
Skat Company, The, Hartford, Conn. Soap of paste-like consistency. No. 119,216; Aug. 3; v. 277; p. 148.
Southern Novelty Company, Hartsville, S. C. Paper cones and tubes. No. 124,360; Aug. 3; v. 277; p. 151.
Stalfort, John C., & Sons, Baltimore, Md. Boot and shoe dye. No. 126,782; Aug. 3; v. 277; p. 153.
Stedman, James H., Braintree, Mass. Soles and heels for shoes. No. 133,068; Aug. 3; v. 277; p. 166.
Stephens, Jay Q., Kansas City, Mo. Ice-cream cones. No. 123,182; Aug. 3; v. 277; p. 150.
Stevens, Isaac F., Nashua, N. H. Refrigerators. No. 127,220; Aug. 3; v. 277; p. 154.
Strathmore Paper Company, West Springfield, Mass. Cover and book paper, cardboard, &c. No. 119,584; Aug. 3; v. 277; p. 148.
Studdert, John B. (See Cureton and Studdert, assignors.)
Super Seal Service, Inc., New York, N. Y. Drugs, chemicals, druggists' supplies, and sundries. No. 123,909; Aug. 3; v. 277; p. 151.
Swayzee, William B., Winterset, Iowa. Non-alcoholic, maltless, non-cereal beverage. No. 131,755; Aug. 3; v. 277; p. 162.
Tanners Oil and Supply Co., Newark, N. J. Chemicals, vegetable extracts, &c., used in tanning and finishing leather. No. 119,054; Aug. 3; v. 277; p. 148.

Taylor, Chas. W., Mr. and Mrs., Louisville, Ky. Preparation for the treatment of consumption. No. 108,421; Aug. 3; v. 277; p. 145.
Taylor, Raymond E., Portland, Oreg. Ointment for bruises, cuts, sores, liniment for rheumatism, corns, &c. No. 115,047; Aug. 3; v. 277; p. 146.
Thornton, Thomas, Roanoke, Va. Salve used in the treatment of pneumonia and influenza. No. 125,262; Aug. 3; v. 277; p. 152.
Tiffany & Company, New York, N. Y. Printed books. No. 128,252; Aug. 3; v. 277; p. 156.
Trussell Manufacturing Co., Poughkeepsie, N. Y. Account-book. No. 116,912; Aug. 3; v. 277; p. 147.
United Neighborhood Houses of New York, New York, N. Y. Printed publication published monthly. No. 134,284; Aug. 3; v. 277; p. 167.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Carriage-cloth. Nos. 129,910–11; Aug. 3; v. 277; p. 158.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Carriage-cloth made of fabric and rubber. No. 129,913; Aug. 3; v. 277; p. 158.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Carriage-cloth made of fabric and rubber. Nos. 129,103–5; Aug. 3; v. 277; p. 157.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Carriage-cloth made of fabric and rubber. No. 129,108; Aug. 3; v. 277; p. 157.
United Rubber Company, The, Akron, Ohio. Rubber vehicle-tire casings and tubes. No. 132,278; Aug. 3; v. 277; p. 163.
V. V. B. Company, Denver, Colo. Medicine for catarrh, colds, croup, asthma, &c. No. 119,282; Aug. 3; v. 277; p. 148.
Wallach, Hoexter & Co., New York, N. Y. Cloth made of worsted and wool yarn with soft velour finish. No. 133,859; Aug. 3; v. 277; p. 166.
Waltham Grinding Wheel Co., The, Waltham, Mass. House organ published monthly. No. 134,338; Aug. 3; v. 277; p. 167.
Waltham Watch Company, Waltham, Mass. Periodical publication. No. 130,780; Aug. 3; v. 277; p. 160.
Wandell Chocolate Company, Inc., Baltimore, Md. Candy, chocolate-covered nuts, nougat, &c. No. 131,765; Aug. 3; v. 277; p. 162.
Washauer, S., San Francisco, Calif. Clothing, particularly overalls, work-shirts, and pants. No. 131,457; Aug. 3; v. 277; p. 161.
Williams, Davis, Brooks & Hinchman Sons, Detroit, Mich. Paper tablets. No. 119,878; Aug. 3; v. 277; p. 149.
Woeltje, William, Chicago, Ill. Wood and marble cement in stick form. No. 133,036; Aug. 3; v. 277; p. 165.
Worth, Isador S., Riverside, N. J. Hosiery. No. 132,179; Aug. 3; v. 277; p. 163.
Wun-Tex Paint Co., The, Washington, D. C. Undercoating for all interior painting. No. 131,843; Aug. 3; v. 277; p. 162.
Yorke, Constance E., Southsea, England. Preparation for restoring hair to its natural color. No. 124,036; Aug. 3; v. 277; p. 151.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 3D DAY OF AUGUST, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid, Production of sulfuric. K. B. Quinan. No. 1,348,736; Aug. 3; v. 277; p. 117.
Adder, Listing. W. M. Holloway. No. 1,348,564; Aug. 3; v. 277; p. 84.
Adjustable die. A. A. Gericke. No. 1,348,403; Aug. 3; v. 277; p. 54.
Adjustable support. G. L. Knights. No. 1,348,569; Aug. 3; v. 277; p. 85.
Aeroplane. J. F. Webb, Sr. No. 1,348,463; Aug. 3; v. 277; p. 65.
Aeroplane control. V. De Dominicis and F. A. Reip. No. 1,348,548; Aug. 3; v. 277; p. 81.
Agricultural implement. J. Versteeg. No. 1,348,255; Aug. 3; v. 277; p. 25.
Air and gas mixer. A. W. Elling. No. 1,348,272; Aug. 3; v. 277; p. 28.
Airplane construction. F. J. Plym. No. 1,348,374; Aug. 3; v. 277; p. 48.
Airplane safety attachment. R. P. Fox. No. 1,348,704; Aug. 3; v. 277; p. 111.
Alarm: *See*—
Burglar-alarm.
Aluminum and its alloys, Deoxidizing. A. Strasser. No. 1,348,458; Aug. 3; v. 277; p. 64.
Animal-trap. E. E. Rodgers, A. W. Wenger, and C. M. Rodgers. No. 1,348,449; Aug. 3; v. 277; p. 63.
Antirattler. H. C. Maise. No. 1,348,232; Aug. 3; v. 277; p. 20.
Armor, Bullet-proof. G. O. Brewster. No. 1,348,204; Aug. 3; v. 277; p. 14.
Ash-discharge mechanism. F. T. and J. M. Nicholson. No. 1,348,659; Aug. 3; v. 277; p. 103.
Automobile-body construction, Convertible. L. Bresin. No. 1,348,624; Aug. 3; v. 277; p. 96.
Automobile-jack. J. S. Cook. No. 1,348,627; Aug. 3; v. 277; p. 97.
Automobile-lock. T. H. Simpson. No. 1,348,453; Aug. 3; v. 277; p. 63.
Automobile-lock. C. C. Trosien. No. 1,348,337; Aug. 3; v. 277; p. 41.
Automobile-signal. S. M. Pontiere. No. 1,348,182; Aug. 3; v. 277; p. 10.
Automobile-signal devices, Circuit-closer for. C. Solie. No. 1,348,454; Aug. 3; v. 277; p. 63.
Automobile-top. E. Spiegel. No. 1,348,593; Aug. 3; v. 277; p. 90.
Automobiles, Device for repairing fenders. F. A. Briggs. No. 1,348,625; Aug. 3; v. 277; p. 96.
Automobiles, Door-holding device for. E. A. Boyer. No. 1,348,260; Aug. 3; v. 277; p. 26.
Automobiles, Lens for. W. H. Zorger. No. 1,348,618; Aug. 3; v. 277; p. 95.
Autosled. R. C. Menzies. No. 1,348,436; Aug. 3; v. 277; p. 60.
Bag-filling machine. C. F. Sparks. No. 1,348,592; Aug. 3; v. 277; p. 90.
Bags, Wire-tying. A. M. Bates. No. 1,348,346; Aug. 3; v. 277; p. 43.
Bait, Artificial. P. Viehweger. No. 1,348,670; Aug. 3; v. 277; p. 105.
Baling-presses, Binding attachment for. W. H. Leavitt. No. 1,348,180; Aug. 3; v. 277; p. 9.
Banjo. W. L. Lange. No. 1,348,652; Aug. 3; v. 277; p. 101.
Bathtub. G. C. Strachan. No. 1,348,250; Aug. 3; v. 277; p. 24.
Batteries, System for charging storage. T. L. Mount. No. 1,348,236; Aug. 3; v. 277; p. 21.
Battery-plate. A. J. Adams. No. 1,348,467; Aug. 3; v. 277; p. 66.
Bearing, Quick-adjusting. W. M. France and L. B. Jones. No. 1,348,705; Aug. 3; v. 277; p. 111.
Bearing, Rocker-stud. W. T. Thacker. No. 1,348,602; Aug. 3; v. 277; p. 92.
Bearings and limbering up motors, Machine for burning in. A. O. White. No. 1,348,611; Aug. 3; v. 277; p. 94.
Bed, Adjustable inclined. V. M. Broun. No. 1,348,779; Aug. 3; v. 277; p. 125.
Bed and collapsible chair combination, Telescopical. J. Chomos. No. 1,348,481; Aug. 3; v. 277; p. 68.
Bed, Convertible table-. J. M. McGhee. No. 1,348,572; Aug. 3; v. 277; p. 86.
Bed-frame, Foldable. P. J. de Does. No. 1,348,156; Aug. 3; v. 277; p. 5.
Bed or attachment therefor. M. C. Nixon. No. 1,348,820; Aug. 3; v. 277; p. 132.
Beds, furniture, and the like, Post and side bars of. S. B. Gamble. No. 1,348,707; Aug. 3; v. 277; p. 111.
Belt-fastener. F. D. Schilling. No. 1,348,747; Aug. 3; v. 277; p. 118.
Belt-tightener. C. L. Rayfield. No. 1,348,183; Aug. 3; v. 277; p. 10.
Bidet. D. A. Ruffman. No. 1,348,518; Aug. 3; v. 277; p. 75.
Bit: *See*—
Drill-bit.
Block: *See*—
Floor and paving block. Paving-block.
Board: *See*—
Plaster-board.
Boat, Underwater. J. A. Archibald. No. 1,348,686; Aug. 3; v. 277; p. 108.
Boiler: *See*—
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Vessels, Apparatus for raising sunken. F. Staud y Ximenz. No. 1,348,595; Aug. 3; v. 277; p. 90.
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Wing. H. M. Wolfe. No. 1,348,679; Aug. 3; v. 277; p. 107.
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Yarn in hank form, Machine for dyeing, washing, scouring, sizing, bleaching, and mercerizing. J. S. and S. S. Lord. No. 1,348,724; Aug. 3; v. 277; p. 114.

ALPHABETICAL LIST OF DESIGNS.

Badge, emblem, insignia, or similar article for a Young Men's Christian Association sweater front or for like personal wear. F. H. Cheley. No. 55,936; Aug. 3; v. 277; p. 137.
Bed. L. A. Brown. No. 55,928; Aug. 3; v. 277; p. 136.
Button. J. A. Duncan, Jr. No. 55,941; Aug. 3; v. 277; p. 138.
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Abrasive devices for use on commutators of electric machines. J. W. Becker. No. 133,579; Aug. 3; v. 277; p. 169.
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Beverage sold as a soft drink. Hoster-Columbus Company. No. 133,705; Aug. 3; v. 277; p. 173.
Beverages and flavors for the same, Non alcoholic, non-cereal, maltless. H. H. Summer. No. 133,841; Aug. 3; v. 277; p. 178.
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Linoleum and composition floor-coverings. The Beaver Company. No. 133,578; Aug. 3; v. 277; p. 169.
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Overalls, unionalls, and jumpers. H. D. Overall Co. No. 133,772; Aug. 3; v. 277; p. 176.
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Metal-polish. E. J. Palmer. No. 133,774; Aug. 3; v. 277; p. 176.
Metals and metal castings and forgings. Hall & Pickles. No. 133,691; Aug. 3; v. 277; p. 173.
Medicinal preparation for the treatment of affections of the throat and bronchial tubes. McKesson & Robbins. No. 133,733; Aug. 3; v. 277; p. 174.
Medicinal preparation for catarrh, asthma, and bronchial troubles. J. Gallagher. No. 133,667; Aug. 3; v. 277; p. 172.
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Paint for concrete, cement, bricks, tile, &c. The Goheen Corporation. No. 133,679; Aug. 3; v. 277; p. 173.
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Paint, Red-lead. The Goheen Corporation. No. 133,678; Aug. 3; v. 277; p. 173.
Paints, House and barn. The E. C. Harley Company. No. 133,696; Aug. 3; v. 277; p. 173.
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Paper bags. J. Single. Nos. 133,823–4; Aug. 3; v. 277; p. 177.
Paper bags. Victory Bag & Paper Co. No. 133,861; Aug. 3; v. 277; p. 178.
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Pastils, Throat-. McKesson & Robbins. No. 133,734; Aug. 3; v. 277; p. 174.
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Petticoats and bloomers. Brown & Singerman. No. 133,593; Aug. 3; v. 277; p. 170.
Photographic retouching-screens. I. Boysen. No. 133,589; Aug. 3; v. 277; p. 170.
Piano-players, Vacuum-creating apparatus for. Piano Motors Corporation. No. 133,779; Aug. 3; v. 277; p. 176.
Picture films, Motion-. International Film Service Co. No. 133,707; Aug. 3; v. 277; p. 174.
Picture films, Motion-. Republic Distributing Corporation. No. 133,793; Aug. 3; v. 277; p. 176.
Picture films, Moving-. Cosmopolitan Film Company. No. 133,622; Aug. 3; v. 277; p. 171.
Picture sundries, Motion-. Movette, Incorporated. No. 133,755; Aug. 3; v. 277; p. 175.
Picture-viewing machines, Coin-operated moving-. J. F. Meyer. No. 133,746; Aug. 3; v. 277; p. 175.
Pills, Liver-. I. H. Taylor. No. 133,846; Aug. 3; v. 277; p. 178.
Piston-rings. E. Wilson. No. 133,875; Aug. 3; v. 277; p. 179.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 133,862; Aug. 3; v. 277; p. 178.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 133,862; Aug. 3; v. 277; p. 178.
Plows. E. E. Sowell. No. 133,826; Aug. 3; v. 277; p. 177.
Plumbing and steam-fitting supplies. Michigan Lubricator Company. No. 133,747; Aug. 3; v. 277; p. 175.
Plumbing supplies. The Monument Pottery Co. No. 133,753; Aug. 3; v. 277; p. 175.
Polish for piano, furniture, and other painted or varnished surfaces, Liquid. J. A. Selby. No. 133,817; Aug. 3; v. 277; p. 177.
Polishing and wiping cloth. Regal Polishing Cloth Co. No. 133,788; Aug. 3; v. 277; p. 176.
Powder for cleaning white shoes and clothing. J. A. Selby. No. 133,816. Aug. 3; v. 277; p. 177.
Precious metal, Articles mounted in. H. Wiener. No. 133,872; Aug. 3; v. 277; p. 179.
Pumps, condensers, and engines. Dow Pump and Diesel Engine Company. No. 133,635; Aug. 3; v. 277; p. 171.
Pumps, liquid-pumps, and blowers, Vacuum and pressure air-. Crescent Pump Company. No. 133,623; Aug. 3; v. 277; p. 171.
Razor-blades. Simmons Hardware Company. No. 133,820; Aug. 3; v. 277; p. 177.
Razors. Boker Cutlery & Hardware Company. No. 133,575; Aug. 3; v. 277; p. 169.
Receptacles. Sealright Company. No. 133,812; Aug. 3; v. 277; p. 177.
Refrigerating-machines. Automatic Carbonic Machine Company. No. 133,570; Aug. 3; v. 277; p. 169.
Refrigerating-machines. Blue Bird Manufacturing Company. No. 133,584; Aug. 3; v. 277; p. 170.
Riding-habits, Ladies'. P. Nardi. No. 133,776; Aug. 3; v. 277; p. 176.
Rifles, shotguns, pistols, &c., Military and sporting. The Remington Arms Union Metallic Cartridge Co. No. 133,792; Aug. 3; v. 277; p. 176.
Rivet-sets, chisel-blanks, reamers, and drills. W. E. Nagle & Son. No. 133,758; Aug. 3; v. 277; p. 175.
Rope yarns, cotton twines and cordage. Eagle Cotton Mills Co. Nos. 133,638–9; Aug. 3; v. 277; p. 171.
Rubber and canvas automobile-casings. Boone Tire & Rubber Company. No. 133,587; Aug. 3; v. 277; p. 170.
Rubber and leather boots and shoes. American-National Shoe & Leather Corporation. No. 133,564; Aug. 3; v. 277; p. 169.
Rubber battery-jars. The B. F. Goodrich Company. No. 133,681; Aug. 3; v. 277; p. 173.
Rubber belting. New York Belting and Packing Company. No. 133,766; Aug. 3; v. 277; p. 175.
Rubber-compound floor-covering. United States Rubber Company. No. 133,856; Aug. 3; v. 277; p. 178.
Rubber tire casings and tubes, belting, &c. Achilles Rubber and Tire Company, Inc. No. 133,554; Aug. 3; v. 277; p. 169.
Rugs, Rag and grass. M. Feldman. No. 133,653; Aug. 3; v. 277; p. 172.
Salad-dressing, peanut-butter, and salted peanuts. C. F. Blanke Tea & Coffee Company. No. 133,582; Aug. 3; v. 277; p. 170.
Scissors and shears. The Acme Shear Company. Nos. 133,555–6; Aug. 3; v. 277; p. 169.
Shafting, Flexible. N. A. Strand & Co. No. 133,835; Aug. 3; v. 277; p. 178.
Sheets and pillow-cases. The Fair. No. 133,650; Aug. 3; v. 277; p. 172.
Shirts, Men's dress-. M. Menzin. No. 133,743; Aug. 3; v. 277; p. 175.
Shirts, Work-. Reliance Manufacturing Company. No. 133,791; Aug. 3; v. 277; p. 176.
Shoe-polish. Griffin Mfg. Co. No. 133,688; Aug. 3; v. 277; p. 173.
Shoe-polish. Ivory Polish Company. No. 133,708; Aug. 3; v. 277; p. 174.
Shoes and juliettes, Leather. Lunn & Sweet Co. No. 133,728; Aug. 3; v. 277; p. 174.
Shoes and slippers of leather, &c. A. J. Bates & Company. No. 133,576; Aug. 3; v. 277; p. 169.
Shoes, Bindings, pipings, &c., of leather for use in the manufacture of. United Stay Company. No. 133,855; Aug. 3; v. 277; p. 178.
Shoes, Children's and infants' leather. Ferris Shoe Company. No. 133,654; Aug. 3; v. 277; p. 172.
Shoes, Leather. O. Gentile. No. 133,670; Aug. 3; v. 277; p. 172.
Shoes, Leather. Otto Meyer and Co. No. 133,771; Aug. 3; v. 277; p. 176.
Shoes, Leather. W. H. Tomlinson & Co. No. 133,849; Aug. 3; v. 277; p. 178.
Silks in pieces, Plain and printed broad. Friedman & Moss. No. 133,666; Aug. 3; v. 277; p. 172.
Silks in the piece, Broad. W. M. Alford & Sons. No. 133,559; Aug. 3; v. 277; p. 169.
Silk piece goods. Empire Silk Company. No. 133,643; Aug. 3; v. 277; p. 172.
Slippers. Pierre E. Giroux & Co. No. 133,780; Aug. 3; v. 277; p. 176.
Smocks and aprons. B. H. Plummer. No. 133,783; Aug. 3; v. 277; p. 176.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 133,651; Aug. 3; v. 277; p. 172.
Snap-fasteners. "Snaplok," Inc. No. 133,825; Aug. 3; v. 277; p. 177.
Soap. G. T. Georgis. No. 133,671; Aug. 3; v. 277; p. 172.
Soap in bars, Mechanics'. Cla-Loid Mfg. Co. No. 133,613; Aug. 3; v. 277; p. 171.
Soap, Yellow laundry. The Federal Soap Company. No. 133,652; Aug. 3; v. 277; p. 172.
Soaps. California Soap Company. No. 133,603; Aug. 3; v. 277; p. 170.
Soaps. C. G. Moller. No. 133,751; Aug. 3; v. 277; p. 175.
Soaps. Red "C" Oil Manufacturing Co. No. 133,787; Aug. 3; v. 277; p. 176.
Soda-water, Carbonated. Universal Beverage Company. No. 133,852; Aug. 3; v. 277; p. 178.
Sound-reproducing machines, Electrical-lighting attachments for. Standard Accessory Corporation. No. 133,829; Aug. 3; v. 277; p. 177.
Spark boosters or intensifiers. P. E. Ramsey. No. 133,784; Aug. 3; v. 277; p. 176.
Spark-plugs. Ford Mica Company. No. 133,657; Aug. 3; v. 277; p. 172.
Spark-plugs. Pep Spark Plug Company. No. 133,778; Aug. 3; v. 277; p. 176.
Stays, straps, &c., for use in the manufacture of harness, trunks, and bags. United Stay Company. No. 133,854; Aug. 3; v. 277; p. 178.
Straps, Wrist-watch. M. Hirsch. No. 133,702; Aug. 3; v. 277; p. 173.
Suits and overcoats, Men's outer. C. D. Levin. No. 133,719; Aug. 3; v. 277; p. 174.
Suits, coats, waists, dresses, and skirts, Ladies', misses', and children's. J. Eckstein. No. 133,640; Aug. 3; v. 277; p. 171.
Sweater-coats. Watts, Ritter & Company. No. 133,865; Aug. 3; v. 277; p. 178.
Syrup for making non-alcoholic, non-cereal beverages. C. A. Fowler. No. 133,660; Aug. 3; v. 277; p. 172.
Syrup, Malt. Northwestern Brewers Supply Co. No. 133,768; Aug. 3; v. 277; p. 175.
Syrup, Maple table-. Vermont Maple Syrup Company. No. 133,859; Aug. 3; v. 277; p. 178.
Syrup used in the preparation of beverages. The Spearmintx Co. No. 133,827; Aug. 3; v. 277; p. 177.
Tanks. Riverside Boiler Works. No. 133,798; Aug. 3; v. 277; p. 176.
Tanks, Wooden. J. Armstrong. No. 133,569; Aug. 3; v. 277; p. 169.
Tire pumps and grease-guns, Automobile-. Sidel-Rattner Manufacturing Company. No. 133,819; Aug. 3; v. 277; p. 177.
Tire tubes, Patches for wheel-. Hassebrock Brothers. No. 133,698; Aug. 3; v. 277; p. 173.
Tires, Bicycle-. Kaufmann Department Stores. No. 133,711; Aug. 3; v. 277; p. 174.
Tires, Elastic vehicle-. The Norwalk Tire and Rubber Company. No. 133,769; Aug. 3; v. 277; p. 175.
Tires, Inner tubes, Rubber. Automobile Owners Tire Corporation. No. 133,571; Aug. 3; v. 277; p. 169.

Tires, Rubber. M. A. Schwartz. No. 133,811; Aug. 3; v. 277; p. 177.
Tires, Vehicle-. E. Miller. No. 133,750; Aug. 3; v. 277; p. 175.
Tobacco and cigarettes. American Tobacco Company. No. 133,565; Aug. 3; v. 277; p. 169.
Tobacco and cigarettes, Smoking and chewing. Frishmuth Bro. & Company. No. 133,665; Aug. 3; v. 277; p. 172.
Tonic for nervousness, indigestion, and general debility. Meritone Medicine Co. No. 133,744; Aug. 3; v. 277; p. 175.
Tools, apparatus and tools for metal-working. Maschinenfabrik Schweiter A.-G. No. 133,740; Aug. 3; v. 277; p. 175.
Tractors. American Tractor Corporation. No. 133,566; Aug. 3; v. 277; p. 169.
Twine. Zellerbach Paper Company. No. 133,884; Aug. 3; v. 277; p. 179.
Underwear. Luxite Silk Products Co. No. 133,729; Aug. 3; v. 277; p. 174.
Wind-shield or glass clear, Chemical compound for keeping. Cleroline Chemical Co. No. 133,618; Aug. 3; v. 277; p. 171.
Union-suits, Men's knitted. Cooper, Coate & Casey Dry Goods Co. No. 133,621; Aug. 3; v. 277; p. 171.
Valves, Flush-tank outlet-. The Korket Company. No. 133,714; Aug. 3; v. 277; p. 174.
Varnish, paints, lacquers. Young and Klots. No. 133,883; Aug. 3; v. 277; p. 179.
Vehicles. Western Wheeled Scraper Company. No. 133,869; Aug. 3; v. 277; p. 179.
Venereal diseases, Prophylactic for. The B & B Laboratories & Mfg. Co. No. 133,572; Aug. 3; v. 277; p. 169.
Voiles and sateen in the piece. Henry Glass & Co. Nos. 133,668–9; Aug. 3; v. 277; p. 172.
Waists for outer wear, Ladies'. Shapiro Bros. & Mirsky. No. 133,818; Aug. 3; v. 277; p. 177.
Waists, Ladies'. Reuben and Zukerman. No. 133,794; Aug. 3; v. 277; p. 176.
Washboilers for laundry purposes. Sargoy Bros. No. 133,808; Aug. 3; v. 277; p. 177.
Washing machine, Clothes-. The Delite Manufacturing Co. No. 133,630; Aug. 3; v. 277; p. 171.
Washing machine, Clothes-. Nineteen Hundred Washer Company, The. No. 133,767; Aug. 3; v. 277; p. 175.
Washing machines, Clothes-. Rochester Washing Machine Corp. No. 133,800; Aug. 3; v. 277; p. 176.
Washing machines, Laundry-. Albaugh-Dover Company. No. 133,560; Aug. 3; v. 277; p. 169.
Washing-powder. H. C. Sutton. No. 133,842; Aug. 3; v. 277; p. 178.
Water-motors. Victor Water Motor Corporation. No. 133,860; Aug. 3; v. 277; p. 178.
Waterproof clothing. National Water-Proofing Company. No. 133,764; Aug. 3; v. 277; p. 175.
Wire-cloth and fencing of iron wire. Clinton Wire Cloth Company. No. 133,616; Aug. 3; v. 277; p. 171.
Woolen piece goods. Forstmann & Huffmann Co. No. 133,658; Aug. 3; v. 277; p. 172.

ALPHABETICAL LIST OF LABELS.

"Alp." (For Men's Drawers.) A. L. Pierson Mfg. Co. No. 21,953; Aug. 3; v. 277; p. 180.
"Amebacide Compounds." (For Remedy for Pyorrhea.) E. S. Julian. No. 21,945; Aug. 3; v. 277; p. 180.
"Burgess Uniplex Battery." (For Electric Batteries.) Burgess Battery Company. No. 21,932; Aug. 3; v. 277; p. 180.
"Chocolate Covered Cherries." (For Chocolate-Covered Cherries.) Milwaukee Paper Box Company. No. 21,949; Aug. 3; v. 277; p. 180.
"Dewkist." (For Strawberries.) H. A. Baker. No. 21,927; Aug. 3; v. 277; p. 180.
"Ditty-Dotty." (For Candy.) The Ohio Confection Company. No. 21,952; Aug. 3; v. 277; p. 180.
"Dolores." (For Cigars.) C. B. Henschel Mfg. Co. No. 21,937; Aug. 3; v. 277; p. 180.
"Eversnap." (For Garment-Fasteners.) Rosebeck Company. No. 21,954; Aug. 3; v. 277; p. 180.
"Goodest-Ever." (For Soda-Water.) Cairo Food Products Company. No. 21,933; Aug. 3; v. 277; p. 180.
"Goodest-Ever." (For Ice-Cream.) Cairo Food Products Company. No. 21,934; Aug. 3; v. 277; p. 180.
"Helox-Antiseptic Healing Powder Veterinary." (For Antiseptic Healing-Powder.) Allaire, Woodward & Co. No. 21,926; Aug. 3; v. 277; p. 180.
"Kee-Ko." (For a Washing Preparation.) The W. P. Drackett and Sons Company. No. 21,936; Aug. 3; v. 277; p. 180.
"Kemi-Pluz Liquid Welding Solution." (For a Chemical Solution for Sealing Leaks in Automobile-Radiators and Steam-Boilers.) Kemi-Pluz Manufacturing Co. No. 21,946; Aug. 3; v. 277; p. 180.
"Lil Joe." (For Candies.) Fox Candy Company. No. 21,938; Aug. 3; v. 277; p. 180.
"Lime Drops." (For Candies.) Beech-Nut Packing Company. No. 21,929; Aug. 3; v. 277; p. 180.
"Men-Tho-Eze 'Grandma Knows'." (For Ointment.) Men-Tho-Eze Corporation. No. 21,948; Aug. 3; v. 277; p. 180.
"Milo Fruit Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,935; Aug. 3; v. 277; p. 180.
"Miracle." (For Canned Peaches.) St. Joe Canning Co. No. 21,956; Aug. 3; v. 277; p. 180.
"Our Pride." (For Apples.) Sgobel and Day. No. 21,955; Aug. 3; v. 277; p. 180.
"Princess Mackerel." (For Canned, Cooked, and Seasoned Mackerel.) P. Barna. No. 21,928; Aug. 3; v. 277; p. 180.
"Queen of Talcums." (For Talcum Powders.) Bo-Kay Perfume Company. No. 21,930; Aug. 3; v. 277; p. 180.
"Sweet Corn." (For Seed-Corn.) A. J. Brown Seed Company. No. 21,931; Aug. 3; v. 277; p. 180.
"The Famous Brew." (For Coffee.) McCord-Brady Company. No. 21,947; Aug. 3; v. 277; p. 180.
"The H & A Best Jute Clothes Line." (For Jute Clothesline.) The Hooven and Allison Company. No. 21,939; Aug. 3; v. 277; p. 180.
"The H & A Best Sisal Clothes Line. (For Sisal Clothesline.) The Hooven and Allison Company. No. 21,940; Aug. 3; v. 277; p. 180.
"The H & A Best New Zealand Hemp Clothes Line." (For New Zealand Hemp Clothesline.) The Hooven and Allison Company. No. 21,941; Aug. 3; v. 277; p. 180.
"The H & A Best Istle Clothes Line." (For Istle Clothesline.) The Hooven and Allison Company. No. 21,942; Aug. 3; v. 277; p. 180.
"The H & A Best Mauritius Clothes Line." (For Mauritius Clothesline.) The Hooven and Allison Company. No. 21,943; Aug. 3; v. 277; p. 180.
"The H & A Best Manila Clothes Line." (For Manila Clothesline.) The Hooven and Allison Company. No. 21,944; Aug. 3; v. 277; p. 180.
"The Preferred Chocolates." (For Chocolates.) A. G. Morse Co. No. 21,951; Aug. 3; v. 277; p. 180.
"Value Received." (For Chocolates.) A. G. Morse Co. No. 21,950; Aug. 3; v. 277; p. 180.

ALPHABETICAL LIST OF PRINTS.

"For the Little Folks." (For Scissors and Shears.) The Acme Shear Company. No. 5,276; Aug. 3; v. 277; p. 180.
"Handy Candy Sweet Birches." (For Candies.) Beech-Nut Packing Company. No. 5,277; Aug. 3; v. 277; p. 180.
"The Price of Beauty." (For Soap.) The Palmolive Company. No. 5,280; Aug. 3; v. 277; p. 180.
"What Tabbing Compound Permits This? Only Nurex!" (For Tabbing Compound.) The Lee Hardware Co. No. 5,278; Aug. 3; v. 277; p. 180.
"You Can Do This With Nurex." (For Tabbing Compound.) The Lee Hardware Co. No. 5,279; Aug. 3; v. 277; p. 180.
"'Yourex.' The Silver Plated Knives." (For Silver-Plated Knives.) Associated Silver Company. No. 5,275; Aug. 3; v. 277; p. 180.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Antiseptic powder, ointment for bruises, &c., liniment. R. E. Taylor. No. 115,047; Aug. 3; v. 277; p. 146.
Antiseptic throat-wash and gargle powder and tablets. Davies, Rose & Co. No. 122,347; Aug. 3; v. 277; p. 150.
Aprons, box-toes, insoles, mittens, &c. The Graton & Knight Manufacturing Company. No. 118,991; Aug. 3; v. 277; p. 148.
Automobiles or any varnished surface, Cleanser and polish for. The Queen City Specialty Co. No. 129,342; Aug. 3; v. 277; p. 158.
Bags, Vanity-. Malts & Sims. No. 134,211; Aug. 3; v. 277; p. 167.
Balloons, Motor-driven. The Goodyear Tire & Rubber Company. No. 131,791; Aug. 3; v. 277; p. 162.
Balloons, Motor-driven. The Goodyear Tire & Rubber Company. No. 131,570; Aug. 3; v. 277; p. 162.
Bats, Baseball-. J. H. Park. No. 130,846; Aug. 3; v. 277; p. 160.
Belting, Leather. J. J. Freadrich. No. 122,428; Aug. 3; v. 277; p. 150.
Belting, rubber, balata, &c., rubber hose, tires, &c. Capen Belting & Rubber Company. No. 125,774; Aug. 3; v. 277; p. 152.
Beverage, Non-alcoholic cereal. Kolb Brewing Co. No. 108,945; Aug. 3; v. 277; p. 145.
Beverage, Non-alcoholic, maltless, non-cereal. W. B. Swayzee. No. 131,755; Aug. 3; v. 277; p. 162.
Beverages, Non-alcoholic. Liquid Carbonic Company. No. 104,140; Aug. 3; v. 277; p. 145.
Beverages, Non-alcoholic. The Queen City Marshmallow and Syrup Company. No. 116,584; Aug. 3; v. 277; p. 147.
Book, Account-. Trussell Manufacturing Co. No. 116,912; Aug. 3; v. 277; p. 147.
Books, Printed. J. F. Draughon. No. 130,467; Aug. 3; v. 277; p. 159.
Books, visiting-cards, invitations, calendars, &c., Printed. Tiffany & Company. No. 128,252; Aug. 3; v. 277; p. 156.
Boot and shoe dye. J. C. Stalfort & Son. No. 126,782; Aug. 3; v. 277; p. 153.
Boots, shoes, and slippers. H. Hollingworth. No. 132,738; Aug. 3; v. 277; p. 165.
Boots, shoes, slippers, and spats. Thomas G. Plant Company. No. 132,610; Aug. 3; v. 277; p. 165.
Bulletins, serial publications, &c., Weekly. The Chemical National Bank of New York. No. 119,737; Aug. 3; v. 277; p. 148.
Candy. The Candy Craft Shops. No. 132,428; Aug. 3; v. 277; p. 164.
Candy. Halligan Candy Company. No. 132,175; Aug. 3; v. 277; p. 163.
Candy, chocolate-covered nuts, cream chocolates, &c. Wandell Chocolate Company. No. 131,765; Aug. 3; v. 277; p. 162.
Candies. Eye Brand Confectionery. Nos. 115,345–6; Aug. 3; v. 277; p. 146.
Candies. T. Backé. No. 131,377; Aug. 3; v. 277; p. 161.
Candies. General Candle Manufacturing Company. No. 129,059; Aug. 3; v. 277; p. 157.
Canned egg-plant, macaroni-seasoning, &c. Progress Grocery Company. No. 112,365; Aug. 3; v. 277; p. 146.
Canned fish. American Oriental Sales Corporation. No. 123,835; Aug. 3; v. 277; p. 150.
Caps and hats for men and boys. Bowman-Moore Hat Company. No. 128,826; Aug. 3; v. 277; p. 156.
Cement, Wood and marble. W. Woeltje. No. 133,036; Aug. 3; v. 277; p. 165.
Chemicals, vegetable extracts, &c., to be used in tanning and finishing leather. Tanners Oil and Supply Company. No. 119,054; Aug. 3; v. 277; p. 148.
Cleaning compound. J. F. Benedict. No. 133,396; Aug. 3; v. 277; p. 166.
Cloth, Carriage-. United States Rubber Company. Nos. 129,910–11; Aug. 3; v. 277; p. 158.
Cloth, Carriage-. United States Rubber Company. No. 129,913; Aug. 3; v. 277; p. 158.
Cloth made of fabric and rubber, Carriage. United States Rubber Company. Nos. 129,103–5; Aug. 3; v. 277; p. 157.
Cloth made of fabric and rubber, Carriage-. United States Rubber Company. No. 129,108; Aug. 3; v. 277; p. 157.
Cloth, &c., of a soft velour finish. Wallach, Hoexter & Co. No. 133,859; Aug. 3; v. 277; p. 166.
Clothes, Work-. Arbuthnot-Stephenson Co. No. 130,712; Aug 3; v. 277; p. 159.
Clothesline-props. S. E. Kaufman. No. 127,248; Aug. 3; v. 277; p. 154.
Clothing. S. Washauer. No. 131,457; Aug. 3; v. 277; p. 161.
Clothing for outer wear for men. P. Feinstein & Sons. No. 130,163; Aug. 3; v. 277; p. 159.
Coal. William M. Lloyd Company. No. 129,899; Aug. 3; v. 277; p. 158.
Coats, overcoats, raincoats, &c., Men's, women's, and children's outer. C. Kenyon Company. No. 131,393; Aug. 3; v. 277; p. 161.
Coffee. P. W. Browning. No. 132,037; Aug. 3; v. 277; p. 163.
Coffee. S. M. Flickinger Co. No. 131,788; Aug. 3; v. 277; p. 162.
Cold-cream, talcum, and face powder. A. M. McGlumphy. No. 127,970; Aug. 3; v. 277; p. 155.
Collies for breeding purposes and corn, wheat, and oats for seed purposes. M. C. Grizzelle. No. 127,180; Aug. 3; v. 277; p. 154.
Combustion, Devices for preventing. G. C. Lee. No. 134,133; Aug. 3; v. 277; p. 167.
Copper, Electrolytic. Nichols Copper Co. No. 131,086; Aug. 3; v. 277; p. 160.
Corsets. Renaissance Corset Company. No. 125,673; Aug. 3; v. 277; p. 152.
Cosmetics. Chernoff Company. No. 115,496; Aug. 3; v. 277; p. 147.
Dental rubber and dam, bulbs for dental use, &c. Atlantic Rubber Mfg. Corporation. No. 131,372; Aug. 3; v. 277; p. 161.
Drugs, chemicals, druggists' supplies and sundries. Super Seal Service. No. 123,909; Aug. 3; v. 277; p. 151.
Dyes. Palatine Aniline & Chemical Corporation. No. 118,327; Aug. 3; v. 277; p. 147.
Dyes. Palatine Aniline & Chemical Corporation. No. 118,330; Aug. 3; v. 277; p. 147.
Fertilizer. The American Agricultural Chemical Company. No. 134,048; Aug. 3; v. 277; p. 167.
Fertilizers. International Agricultural Corporation. No. 132,642; Aug. 3; v. 277; p. 165.
Fertilizing compound. Central Chemical Company. No. 131,380; Aug. 3; v. 277; p. 161.
Fish, Frozen, smoked, salted, and fresh. North American Fisheries & Cold Storage Ltd. No. 131,439; Aug. 3; v. 277; p. 161.
Flavoring-syrups. Liquid Carbonic Company. No. 104,138; Aug. 3; v. 277; p. 145.
Flour, Wheat-. Jensen & Sons Milling & Grain Co. No. 118,210; Aug. 3; v. 277; p. 147.
Fruits, Flaked and cooked. Shepard Fruit Products Company. No. 124,314; Aug. 3; v. 277; p. 151.
Fruits, Fresh citrus. Florence Citrus Growers Association. Nos. 132,520–1; Aug. 3; v. 277; p. 164.
Fumigating compound. Fumigo Manufacturing Co. No. 127,908; Aug. 3; v. 277; p. 155.
Furniture, Store. Harvey & Company. No. 113,916; Aug. 3; v. 277; p. 146.
Furs, skins, hides, and pelts. International Fur Exchange. No. 128,928; Aug. 3; v. 277; p. 157.
Garments, Knitted. V. Sayer. No. 128,278; Aug. 3; v. 277; p. 156.
Gasolene-intensifier, Liquid. Bell Manufacturing Company. No. 118,042; Aug. 3; v. 277; p. 147.
Glue. M. Feigel & Bro. No. 133,575; Aug. 3; v. 277; p. 166.
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CLASSIFICATION OF PATENTS

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175— 183: 1,348,424
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176— 16: 1,348,350
177— 352: 1,348,825
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184— 6: 1,348,664
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211— 8: 1,348,732
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213— 10: 1,348,776
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271— 9: 1,348,254
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279— 50: 1,348,740
280— 27: 1,348,347
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285— 13: 1,348,277
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287— 105: 1,348,692
290— 36: 1,348,555
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305— 4: 1,348,818

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 10TH DAY OF AUGUST, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adams & Westlake Company, The. (See Krohn, Nels, assignor.)
Adams, Edward M., assignor to M. H. Petigor, New York, N. Y. Dispensing-pump and mixer. No. 1,349,543; Aug. 10; v. 277; p. 328.
Adams, William A. (See Skublin, Charles P., assignor.)
Adelsperger, Dow L., assignor to The Bauer Brothers Company, Springfield, Ohio. Method of and apparatus for treating cotton-seed. No. 1,349,034; Aug. 10; v. 277; p. 227.
Ainsworth, William A., Utica, N. Y. Dyeing-machine. No. 1,348,974; Aug. 10; v. 277; p. 215.
Aktiebolaget Svenska Kullagerfabriken. (See Olsson, Nils J., assignor.)
Albee, Honestus M., Nutley, N. J. Machine for carving, routing, and similar operations. No. 1,349,250; Aug. 10; v. 277; p. 271.
Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Tractor. No. 1,349,249; Aug. 10; v. 277; p. 270.
Alder, Frederick T., Mt. Vernon, N. Y. Vehicle wheel and spoke. No. 1,349,035; Aug. 10; v. 277; p. 227.
Allen, Lewis H., West Springfield, Mass. Sterilizing device. No. 1,348,837; Aug. 10; v. 277; p. 189.
Alstad, George C., Chicago, Ill. Compressed-air power-drive. No. 1,349,030; Aug. 10; v. 277; p. 227.
Altaffer, John F., Aline, Okla. Rail-tie. No. 1,349,310; Aug. 10; v. 277; p. 282.
Amdursky, Samuel S. (See Steinmetz, Robert, assignor.)
American Auto Alarm, The. (See Morgan, Lewis H., assignor.)
American Brake Company, The. (See Burton, Thomas L., assignor.)
American Optical Company. (See Herbert, Pitt H., assignor.)
American Paper Bottle and Can Company. (See Stephenson, Leonard D., assignor.)
American Telephone and Telegraph Company. (See Toomey, John F., assignor.)
American Well Works, The. (See Chapman, Matthew T. and M. C., assignors.)
Amstutz, Noah S. (See Simpson, David J., assignor.)
Anderson, Albert O. (See Bradley, Jacob A., assignor.)
Anderson Electric Specialty Company. (See Anderson, Ernst G. K., assignor.)
Anderson, Ernst G. K., assignor to Anderson Electric Specialty Company, Chicago, Ill. Actuating member for switches. No. 1,349,251; Aug. 10; v. 277; p. 271.
Anderson, Hans. (See Lund, J. M., and Anderson.)
Anderson, James B., Philadelphia, Pa. Mine pulley or roller. No. 1,349,183; Aug. 10; v. 277; p. 257.
Angel, John H., Minneapolis, Minn. Press-plate. No. 1,349,544; Aug. 10; v. 277; p. 328.
Annable, Lee V., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel with demountable rim. No. 1,348,975; Aug. 10; v. 277; p. 215.
Anthony, Joseph L., assignor to Weir Stove Company, Taunton, Mass. Stove-door. No. 1,348,838; Aug. 10; v. 277; p. 189.
Antman, Israel, New York, N. Y. Machine for measuring and cutting ribbon. No. 1,348,976; Aug. 10; v. 277; p. 216.
Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Method of and means for utilizing thermionic currents. No. 1,349,252; Aug 10; v. 277; p. 271.
Ash, Frederick J., Phoenixville, Pa. Stocking-holding device. No. 1,348,922; Aug. 10; v. 277; p. 205.
Asman, Henry, Evansville, Ind. Combined double-ended sled and wagon. No. 1,349,311; Aug. 10; v. 277; p. 282.
Associated Engines Company. (See Gruenfeld, Julius J., Jr., assignor.)
Associated Engineers Company. (See Tillson, Edwin D., assignor.)
Astrom, John, assignor to Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Valve. No. 1,349,253; Aug. 10; v. 277; p. 271.
Aurora Door Hanger & Specialty Company. (See Weis, Paul B., assignor.)
Austin, Walter S., Pittsburgh, Pa. Nurling-tool. No. 1,349,254; Aug. 10; v. 277; p. 271.
Auto Ordnance Corporation. (See Payne, Oscar V., assignor.)
Auto Ordnance Corporation. (See Tunks, Charles A., assignor.)
Automatic Electric Company. (See Erickson, John, assignor.)
Automatic Electric Company. (See Jacobsen, Emil, assignor.)
Axe, Roy T., and E. F. Chaffee, assignors to The O. M. Edwards Company Inc., Syracuse, N. Y. Brake for window-sashes. No. 1,348,037; Aug. 10; v. 277; p. 228.
Bahan, George F., and A. St. Onge, Charlotte, N. C. Bobbin-stripper. No. 1,349,448; Aug. 10; v. 277; p. 309.
Bailey, Cyrus, Western Springs, Ill. Plane No. 1,348,923; Aug. 10; v. 277; p. 205.
Bak, Edward, East Stanwood, Wash. Washboiler attachment. No. 1,349,545; Aug. 10; v. 277; p. 328.
Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Dispensing-faucet. No. 1,348,839; Aug. 10; v. 277; p. 189.
Baker, Newton D., Secretary of War, trustee. (See Martel, F. J. Briggs, Macaulay, Wright, and Wenner, assignors.)
Bakerman, Abraham M., New York, N. Y. Necktie. No. 1,349,486; Aug. 10; v. 277; p. 316.
Bakken, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Latching device. No. 1,349,356; Aug. 10; v. 277; p. 291.
Bakken, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fuse. No. 1,349,357; Aug. 10; v. 277; p. 291.
Balestrino, Louis, Brooklyn, and G. Merigone, New York, N. Y. Multiple-lever lock for automobiles. No. 1,348,840; Aug. 10; v. 277; p. 189.
Balestrino, Louis, Brooklyn, and G. Merigone, New York, N. Y. Automobile-lock. No. 1,348,841; Aug. 10; v. 277; p. 189.
Baran, Wilfred, *et al.* (See Kollock, Samuel W. M., assignor.)
Barber-Colman Company. (See Colman, Howard D., assignor.)
Barbet, Emile A., Paris, France. Apparatus for regulating and maintaining a desired level of liquid in evaporating installations. No. 1,349,114; Aug. 10; v. 277; p. 242.
Barclay, David, Conneautville, and A. M. Dudley, Oakmont, Pa., assignors to Westinghouse Electric and Manufacturing Company. Shaft-bracing. No. 1,349,358; Aug. 10; v. 277; p. 291.
Barlow, William N., Yonkers, N. Y. Electric relay or circuit-closing device. No. 1,348,842; Aug. 10; v. 277; p. 190.
Barnett, Jacob I., Newton, Mass. Garment. No. 1,349,359; Aug. 10; v. 277; p. 292.
Barrett, Andrew J., Britannia Beach, British Columbia, Canada, assignor of one-half to G. Bergquist, Seattle, Wash. Light-holder. No. 1,349,312; Aug. 10; v. 277; p. 282.
Barrett, Andrew J., Britannia Beach, British Columbia, Canada, assignor of one-half to G. Bergquist, Seattle, Wash. Elevator safety device. No. 1,349,313; Aug. 10; v. 277; p. 283.
Bart, Charles, New York, N. Y. Display-rack canopy. No. 1,349,255; Aug. 10; v. 277; p. 272.
Bartels, Carl. (See Mosler, M., and Bartels.)
Bartlett, Wilbert S. (See Lombard, Levi W., assignor.)
Barton, Kirtland C., National Stock Yards, Ill., assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Controlling mechanism for meal-cookers and the like. No. 1,349,143; Aug. 10; v. 277; p. 248.
Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Obtaining titanic oxid. No. 1,348,843; Aug. 10; v. 277; p. 190.
Baskin, Frank S., Cleveland Heights, Ohio. Table attachment for seats. No. 1,348,924; Aug. 10; v. 277; p. 205.
Bates, August B., Washington, D. C. Drip-catcher for refrigerators. No. 1,349,314; Aug. 10; v. 277; p. 283.
Bates, George E., Syracuse, N. Y. Keyhole-illuminating device. No. 1,349,360; Aug. 10; v. 277; p. 292.

Bauer Brothers Company, The. (See Adelsperger, Dow L., assignor.)
Baumann, John R., Bed Wing, Minn. Segment-block. No. 1,349,552; Aug. 10; v. 277; p. 329.
Baxter, Douglas, assignor of one-half to G. Henderson, Three Rivers, Quebec, Canada. Beehive. No. 1,348,925; Aug. 10; v. 277; p. 206.
Bechtold, Reuben E., assignor to S. F. Bowser & Co., Fort Wayne, Ind. Meter for continuous pumps. No. 1,349,256; Aug. 10; v. 277; p. 272.
Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,349,115; Aug. 10; v. 277; p. 243.
Beckton, Dickinson & Co. (See Schwidetzky, Oscar O. R., assignor.)
Beckwith, Harry H. (See Swett, Charles E., assignor.)
Benham, Charles E., Schenectady, N. Y., assignor to The Maqua Company. Printer's furniture. No. 1,349,257; Aug. 10; v. 277; p. 272.
Bennett, Erastus S., New York, N. Y. Turbine-engine. No. 1,349,487; Aug. 10; v. 277; p. 316.
Benton, James, East Palestine, Ohio. Multiple-cup mold. No. 1,349,546; Aug. 10; v. 277; p. 328.
Bergquist, Gust. (See Barrett, Andrew J., assignor.)
Bergstrom, Alfred E., Savage, Mont. Incubator. No. 1,349,315; Aug. 10; v. 277; p. 283.
Berry, Alfred M., Woodhaven, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y. Channel-entrance for typographical machines. No. 1,349,488; Aug. 10; v. 277; p. 317.
Billon, Frederic. (See Schneider, J., Hürlimann, and Billon.)
Billon, Frederic, Solothurn, Switzerland. High-voltage distributer for electric ignition apparatus. No. 1,349,316; Aug. 10; v. 277; p. 283.
Bingley, John W., Watertown, N. Y. Safety train-stop mechanism. No. 1,349,489; Aug. 10; v. 277; p. 317.
Bird Adding Machine Company. (See Fitch, Charles M., assignor.)
Birnstock, William W., assignor to Hench & Dromgold Company, York, Pa. Nozzle-header for bottle-washing machines. No. 1,349,144; Aug. 10; v. 277; p. 249.
Bissell, Carl H., and F. C. Smith, assignors to Crouse-Hinds Company, Syracuse, N. Y. Quick-action switch. No. 1,349,038; Aug. 10; v. 277; p. 228.
Bitter, Arthur A., Los Angeles, Calif., assignor, by mesne assignments, to Western Vulcanizer Manufacturing Company, Chicago, Ill. Vulcanizer. No. 1,349,039; Aug. 10; v. 277; p. 228.
Blake, Archie, New Orleans, La. Nut-lock. No. 1,349,404; Aug. 10; v. 277; p. 300.
Blocksom, Berget H., assignor to Wilson & Co., Inc., Chicago, Ill. Cushion-cover. No. 1,349,258; Aug. 10; v. 277; p. 272.
Bodom, Carl V., Tampico, Mexico. Fastening device for lifeboats. No. 1,349,317; Aug. 10; v. 277; p. 283.
Bolgiano, Charles J., Baltimore, Md. Correspondence-blank. No. 1,349,547; Aug. 10; v. 277; p. 328.
Bone, William A., J. W. Wilson, Leeds, and C. D. McCourt, London, England, assignors, by mesne assignments, to Surface Combustion, Inc., Wilmington, Del. Combustion of fuel. No. 1,349,040; Aug. 10; v. 277; p. 228.
Borders, Harry L., and E. A. Lewis, assignors to Standard Corrugated Box Co., St. Louis, Mo. Hinge for corrugated boxes. No. 1,348,844; Aug. 10; v. 277; p. 190.
Borrowman, George L., New Rochelle, N. Y. Water-softening compound and producing same. No. 1,348,977; Aug. 10; v. 277; p. 216.
Boryk, John, Ansonia, Conn. Noisy toy. No. 1,349,259; Aug. 10; v. 277; p. 272.
Boston, Frank M. (See Walker, Asa C., assignor.)
Bouton, Edgar M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Furnace-regulator system. No. 1,349,361; Aug. 10; v. 277; p. 292.
Bowser, S. F., & Co. (See Bechtold, Reuben E., assignor.)
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-fixture. No. 1,349,041; Aug. 10; v. 277; p. 229.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-rod. No. 1,349,042; Aug. 10; v. 277; p. 229.
Boye, James H., Manufacturing Company. (See Boye, James H., assignor.)
Boye, Lawrence F., Chester, Pa. Clutch mechanism. No. 1,348,926; Aug. 10; v. 277; p. 206.
Boyle, Bernard J. (See Royer, Edwin C., assignor.)
Bradley, Jacob A., Milwaukee, assignor of one-half to Albert O. Anderson, Shawano, Wis. Nut-lock. No. 1,349,260; Aug. 10; v. 277; p. 272.
Breckenridge, Harold C., Musselshell, Mont. Railway electric lantern. No. 1,349,548; Aug. 10; v. 277; p. 329.
Breinl, Joseph C., Prague, Czechoslovakia. Valve. No. 1,349,145; Aug. 10; v. 277; p. 249.
Breniser, Orson W., assignor of one-fifth to A. V. Groupe, Philadelphia, Pa. Cable-support. No. 1,349,043; Aug. 10; v. 277; p. 229.
Brensinger, Julius, Fairfield, assignor to The Max Ams Machine Co., Bridgeport, Conn. Can-body-side-seam-soldering-machine. No. 1,349,044; Aug. 10; v. 277; p. 229.
Briggs, Clark A. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)
Brooks, Herbert, assignor to Petters Limited, Yeovil, England. Means for controlling the supply of liquid fuel to internal-combustion engines. No. 1,348,845; Aug. 10; v. 277; p. 190.
Broomhead, Henry H., Bloomington, Idaho. Lock for automobile steering-gear. No. 1,349,490; Aug. 10; v. 277; p. 317.
Brown, Carl S., and R. R. Shaffer, Ashland, Ohio. Light-deflector. No. 1,348,927; Aug. 10; v. 277; p. 206.
Brown, Clarence M., Philadelphia, Pa., assignor to Pittsburgh Plate Glass Company. Cleaning-brush. No. 1,349,261; Aug. 10; v. 277; p. 273.
Brown, Clarence M., Philadelphia, Pa., assignor to Pittsburgh Plate Glass Company. Brush for cleaning glass-making pots. No. 1,349,262; Aug. 10; v. 277; p. 273.
Brown, Gouverneur G., New York, and P. A. Schuchart, Rockville Center, N. Y., assignors to Paper Service Company. Sheet-interfolding machine. No. 1,348,846; Aug. 10; v. 277; p. 190.
Brown, John D. (See O'Neill, Arthur M., assignor.)
Brown, Thomas R., Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric train-wire coupling. No. 1,349,405; Aug. 10; v. 277; p. 301.
Browning, William H., New York, N. Y. Edge-trimmer. No. 1,348,847; Aug. 10; v. 277; p. 191.
Bruce, Thomas D. (See Woodruff, George N., assignor.)
Bryant, George W. (See Heale, F., and Bryant.)
Bryson, Thomas J., New Orleans, La. Traction-lug for vehicles. No. 1,349,406; Aug. 10; v. 277; p. 301.
Buch, Max, Birmingham, England, assignor, by mesne assignments, to Edwards Corporation, Jackson, Mich. Cape cart-hood for use on motor-vehicles. No. 1,349,045; Aug. 10; v. 277; p. 229.
Buchenau, Lloyd W., Stockton, Calif. Gum and mint case. No. 1,349,263; Aug. 10; v. 277; p. 273.
Buck, David V. (See Garman, H. B., and Buck.)
Buckwalter, Leon G. (See Hutchinson, Morton C., assignor.)
Bukovecz, Miguel, Mexico, Mexico. Instantaneous safety-switch. No. 1,349,184; Aug. 10; v. 277; p. 257.
Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)
Burton, George W., Providence, R. I. Locking device. No. 1,349,491; Aug. 10; v. 277; p. 317.
Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake-head adjuster. No. 1,349,407; Aug. 10; v. 277; p. 301.
Busch-Sulzer Bros.-Diesel Engine Company. (See Pfeffer, Oscar W., assignor.)
Busse, Fred W., Louisville, Ill. Eaves-trough or gutter-cover. No. 1,349,264; Aug. 10; v. 277; p. 273.
Butler, Robert T., and H. E. Thompson, Flushing, Ohio. Switch-stand. No. 1,348,848. Aug. 10; v. 277; p. 191.
Cahill, Phillip J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dredge-tumbler. No. 1,349,408; Aug. 10; v. 277; p. 301.
Cameron, William J. Chicago, Ill. Filling lamps. No. 1,348,978; Aug. 10; v. 277; p. 216.
Camp, William W., Stratford, Ontario, Canada. Press. No. 1,349,318; Aug. 10; v. 277; p. 283.
Campbell, Patrick G., Monolith, Calif. Agitating device. No. 1,349,492; Aug. 10; v. 277; p. 318.
Candee, L., & Company. (See Rice, J. M., Joseph, and Rupp, assignors.)
Canfield, Arthur J., Montreal, Quebec, Canada. Making draft-gear yokes. No. 1,349,493; Aug. 10; v. 277; p. 318.
Caproni, Gianni, Milan, Italy. Multiplane aeroplane. No. 1,349,116; Aug. 10; v. 277; p. 243.
Caron, Martinus H. (See Clevenger, G. H., and Caron.)
Carpenter, Charles E., Postville, Iowa. Kiln. No. 1,349,185; Aug. 10; v. 277; p. 257.
Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Burner. No. 1,349,319; Aug. 10; v. 277; p. 284.
Carrey Rotary Engine Company. (See Carrey, John O., assignor.)
Carson, Helen S., Stamford, Conn. Thread-cutter. No. 1,349,320; Aug. 10; v. 277; p. 284.
Carter, James W., Jr., Abilene, Tex. Indicator. No. 1,349,321; Aug. 10; v. 277; p. 284.
Cates, Leland C., assignor to Sunbeam Chemical Company, Chicago, Ill. Alkali-proof dye and producing same. No. 1,349,265; Aug. 10; v. 277; p. 273.
Chaffee, Edward F. (See Axe, R. T., and Chaffee.)
Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Sash-lock for railway-car windows. No. 1,349,046; Aug. 10; v. 277; p. 229.
Chaffee, Herbert H., San Leandro, Calif. Oven. No. 1,349,494; Aug. 10; v. 277; p. 318.
Chapman, Leonora, Ariel, Pa. Ventilator. No. 1,349,186; Aug. 10; v. 277; p. 257.
Chapman, Mark C. (See Chapman, Matthew T. and M. C.)
Chapman, Matthew T. and M. C., assignors to The American Well Works, Aurora, Ill. Deep-well pump. No. 1,348,980; Aug. 10; v. 277; p. 216.
Chicago Bearings Company. (See Winn, Charles A., assignor.)
Chicago Line-Tabler Company. (See Stevenson, Ashton G., assignor.)

Chicago Manufacturing and Distributing Co. (See Suitemeyer, Charles F., assignor.)
Christensen Machine Company. (See Christensen, Martin, assignor.)
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Egan, William F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making hollow bodies. No. 1,349,372; Aug. 10; v. 277; p. 294.
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Fitch, Charles M., assignor, by mesne assignments, to Bird Adding Machine Company, Chicago, Ill. Adding-machine. No. 1,349,194; Aug. 10; v. 277; p. 259.
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French, George M., and W. B. Pavey, assignors to Economy Engineering Company, Chicago, Ill. Lifting device. No. 1,349,450; Aug. 10; v. 277; p. 309.
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Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Radiator-casing in combination with humidifying devices. No. 1,349,059; Aug. 10; v. 277; p. 232.
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Goddu, George, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for making fastenings. No. 1,348,864; Aug. 10; v. 277; p. 194.
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Green, Michael B., Memphis, Tenn. Oil-press. No. 1,348,870; Aug. 10; v. 277; p. 195.
Green, Walter R., Chicago, Ill. Tire-carrier. No. 1,349,507; Aug. 10; v. 277; p. 321.
Greenwood, Conrad V., Blundellsands, near Liverpool, England. Tanning. No. 1,349,150; Aug. 10; v. 277; p. 250.
Grimith, Melvin J., Barberton, Ohio. Septic tank. No. 1,349,452; Aug. 10; v. 277; p. 309.
Grimths, Edward J. (See Grimths, William A. and E. J.)
Grimths, William A. and E. J., Homestead, Pa. Automobile-tire. No. 1,348,871; Aug. 10; v. 277; p. 195.
Gros, Ferdinand, & Bouchardy. (See Guye, Philippe A., assignor.)
Groupe, Andrew V. (See Brenizer, Orson W., assignor.)
Gruenfeld, Julius J., Jr., assignor to Associated Engines Company, Chicago, Ill. Christmas-tree ornament. No. 1,349,374; Aug. 10; v. 277; p. 295.
Gubelmann, William S., Buffalo, N. Y. Dating mechanism for calculating and like machines. No. 1,348,942; Aug. 10; v. 277; p. 209.
Gulbransen, Axel G., assignor to Gulbransen-Dickinson Company, Chicago, Ill. Piano-player action. No. 1,349,273; Aug. 10; v. 277; p. 275.
Gulbransen-Dickinson Company. (See Gulbransen, Axel G., assignor.)
Gulich, Gregor, New York, N. Y. Fire-escape or life-saving tower. No. 1,348,872; Aug. 10; v. 277; p. 195.
Gustafson, Charles, Instanter, Pa. Broom-holder. No. 1,349,274; Aug. 10; v. 277; p. 275.
Guye, Philippe A., Geneva, Switzerland, assignor to Ferdinand, Gros, & Bouchardy, Paris, France. Manufacture of concentrated nitric acid. No. 1,348,873; Aug. 10; v. 277; p. 196.
Guye, Philippe A., Geneva, Switzerland, assignor to Ferdinand, Gros, & Bouchardy, Paris, France. Manufacture of nitric anhydrid. No. 1,348,874; Aug. 10; v. 277; p. 196.
Hadaway, William S., Jr., New Rochelle, N. Y. Heating apparatus. No. 1,349,130; Aug. 10; v. 277; p. 245.
Hadaway, William S., Jr., New Rochelle, N. Y. Heating apparatus. No. 1,349,131; Aug. 10; v. 277; p. 246.
Haddock, Charles C., Beverly, Mass. Aeronautical apparatus. No. 1,349,336; Aug. 10; v. 277; p. 287.
Hahn, Lowell R., and O. L. Miller, Kokomo, Ind. Backwater stop or valve. No. 1,348,993; Aug. 10; v. 277; p. 219.
Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,349,375; Aug. 10; v. 277; p. 295.
Hall, Frank H., Yonkers, N. Y. Toy. No. 1,349,337; Aug. 10; v. 277; p. 287.
Hall, James H., Mountain Grove, Mo. Trap. No. 1,349,453; Aug. 10; v. 277; p. 310.
Hallock, Fletcher D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,348,943; Aug. 10; v. 277; p. 209.
Hamel Shoe Machinery Company. (See Elliasson, William A., assignor.)
Hamel Shoe Machinery Company. (See Valois, Felix E., assignor.)
Hardgrove, Burton C., Portland, Oreg., assignor of one-half to C. Osborne. Spark-arrester. No. 1,349,151; Aug. 10; v. 277; p. 250.
Hardwick, Archer P., Vanadium, Colo. Internal-combustion engine. No. 1,349,275; Aug. 10; v. 277; p. 275.
Harn, Sherman A., Waterville, Wash. Straw-spreading attachment. No. 1,349,152; Aug. 10; v. 277; p. 250.
Harrington, Tillie, Minneapolis, Minn. Cooking vessel. No. 1,349,508; Aug. 10; v. 277; p. 321.
Hartford-Fairmont Company. (See Peller, Karl E., assignor.)
Hartman, Ellés E., New York, N. Y. Foldable bed. No. 1,348,944; Aug. 10; v. 277; p. 209.
Hastings, James E., Athol, Mass. Micrometer. No. 1,348,875; Aug. 10; v. 277; p. 196.
Havenstrite, Charles D., Chicago, Ill. Compressor. No. 1,349,199; Aug. 10; v. 277; p. 260.
Hays, Harry J., Alexandria, Va. Tobacco-pipe. No. 1,349,276; Aug. 10; v. 277; p. 275.
Heald Machine Company. (See Moran, John L., assignor.)
Heale, Frank, Putney, and G. W. Bryant, Southsea, England. Screen for Cinematograph-pictures and the like. No. 1,349,064; Aug. 10; v. 277; p. 233.
Heath, Arthur E., London, England. Sparking-plug for ignition purposes. No. 1,349,454; Aug. 10; v. 277; p. 310.
Heath, William R. (See Crumpton, William J., assignor.)
Heckle, George R., Montreal, Quebec, Canada. Pile. No. 1,349,994; Aug. 10; v. 277; p. 219.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,349,376; Aug. 10; v. 277; p. 295.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,349,377; Aug. 10; v. 277; p. 295.
Henoh & Dromgold Company. (See Birnstock, William W., assignor.)
Henderson, George. (See Barter, Douglas, assignor.)
Herbert, Pitt H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,349,378; Aug. 10; v. 277; p. 296.
Herrick, Percy H., Pittsburgh, Pa. Toy vehicle. No. 1,349,509; Aug. 10; v. 277; p. 321.
Hester, Edgar A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,349,379; Aug. 10; v. 277; p. 296.
Hettrich, John, Lincoln, Nebr. Mechanical movement. No. 1,348,880; Aug. 10; v. 277; p. 197.
Himes Cohen Tractor Co. (See Himes, Walter H., assignor.)
Himes, Walter H., assignor to Himes Cohen Tractor Co., Grove City, Pa. Tractor-plow. No. 1,348,995; Aug. 10; v. 277; p. 219.
Hipple, Oliver P., Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,349,380; Aug. 10; v. 277; p. 296.
Hirschy Company, The. (See Hirschy, Herman C., assignor.)
Hirschy, Herman C., assignor to The Hirschy Company, Minneapolis, Minn. Washing-machine. No. 1,349,338; Aug. 10; v. 277; p. 287.
Hirner, Emil A., Allentown, Pa. Spring-needle knitting-machine. No. 1,349,132; Aug. 10; v. 277; p. 246.
Hirshstein, Joseph, St. Louis, Mo. Double-drainage roof-drain and sediment-cup. No. 1,348,945; Aug. 10; v. 277; p. 210.
Hitchcock Experiment Company. (See Hitchcock, Halbert K., assignor.)

Hitchcock, Halbert K., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-drawing bait and using it. No. 1,349,200; Aug. 10; v. 277; p. 260.

Hitchcock, Halbert K., Pittsburgh, Pa., assignor of one-half to Hitchcock Experiment Company. Apparatus for drawing glass sheets. No. 1,349,201; Aug. 10; v. 277; p. 260.

Hlasko, Vatslav A., New York, N. Y. Puzzle. No. 1,349,456; Aug. 10; v. 277; p. 310.

Hobbs, Clarence W., and E. A. Copeland, assignors to Hobbs Manufacturing Company, Worcester, Mass. Coin-controlled vending-machine. No. 1,348,876; Aug. 10; v. 277; p. 196.

Hobbs Manufacturing Company. (See Hobbs, C. W., and Copeland, assignors.)

Hodges, John. (See Gordon, N. Y., and Hodges.)

Hoe, R., and Co. (See Schmidt, Louis A., assignor.)

Hoerner, Frank, Los Angeles, Calif. Adjustable valve-seat facer. No. 1,349,153; Aug. 10; v. 277; p. 251.

Hokansen, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter. No. 1,348,946; Aug 10; v. 277; p. 210.

Holbrook, Eugene, and M. E. Holbrook, Oakland, Calif. Rotary character toy. No. 1,349,202; Aug. 10; v. 277; p. 260.

Holbrook, Mollie E. (See Holbrook, Eugene, and M. E.)

Holland, Joseph B., Youngstown, Ohio. Train-coupling. No. 1,348,947; Aug. 10; v. 277; p. 210.

Holmes, Ephraim M., Minneapolis, Minn., assignor to D. E. French, Stuart, Fla. Traction-engine. No. 1,348,877; Aug. 10; v. 277; p. 196.

Holten, Birchard E., Los Angeles, Calif. Air-brush. No. 1,349,154; Aug. 10; v. 277; p. 251.

Hönig, Edgar, Wilmersdorf-Berlin, assignor to the Firm Optische Signale Gesellschaft mit beschränkter Haftung, Berlin, Germany. Optical sign. No. 1,349,277; Aug. 10; v. 277; p. 276.

Hooper, Harris G., San Francisco, Calif. Aeroplane construction. No. 1,348,996; Aug. 10; v. 277; p. 219.

Hopkinson, Ernest, New York, N. Y. Making pneumatic-tire casings. No. 1,349,423; Aug. 10; v. 277; p. 304.

Hopkinson, Ernest, New York, N. Y. Apparatus for making pneumatic-tire casings. No. 1,349,424; Aug. 10; v. 277; p. 304.

Horne, Henry M., assignor of one-half to W. J. Sudderth, Sulphur Springs, Tex. Spring-wheel. No. 1,349,839; Aug. 10; v. 277; p. 287.

Hotchkiss, Mark S., Binghamton, N. Y. Staking device for road-rails. No. 1,349,340; Aug. 10; v. 277; p. 288.

Hottman, Charles W., assignor to C. Offenhauser, Philadelphia, Pa. Mixer and separator. No. 1,349,203; Aug. 10; v. 277; p. 260.

Hougland, Clarence W., Seal Beach, Calif. Vegetable-topper. No. 1,349,204; Aug. 10; v. 277; p. 261.

House, Horace, Rayl, Calif. Tractor. No. 1,349,065; Aug. 10; v. 277; p. 233.

Howard, Obadiah D., and H. W. Keep, St. Paul, Minn. Comb for drying and straightening hair. No. 1,349,425; Aug. 10; v. 277; p. 304.

Hughes, James W., Philadelphia, Pa. Offset stylus-arm. No. 1,349,205; Aug. 10; v. 277; p. 261.

Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Sheet-feeding machine. No. 1,349,133; Aug. 10; v. 277; p. 246.

Humphrey Gas Pump Company. (See Trump, E. N., and Friedrichs, assignors.)

Hurd, Enos A., Woodward, Okla. Lifting-handle for storage batteries. No. 1,349,457; Aug. 10; v. 277; p. 310.

Hurlimann, Ernst. (See Schneider, J., Hurlimann, and Billon.)

Hurlimann, Ernst, Zuchwil, near Solothurn, assignor to the Firm Scintilla, Solothurn, Switzerland. Mechanism for regulating the point of ignition in magneto-electric ignition apparatus. No. 1,349,278; Aug. 10; v. 277; p. 276.

Hump Hairpin Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)

Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,348,997; Aug. 10; v. 277; p. 220.

Hutchins, Allan S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,349,341; Aug. 10; v. 277; p. 288.

Hutchinson, Morton C., Woodbury, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Piston and rings therefor. No. 1,348,998; Aug. 10; v. 277; p. 220.

Huttner, Joe, Sierra Madre, Calif. Lid-holder. No. 1,349,155; Aug. 10; v. 277; p. 251.

Hyatt, Frank S., Brooklyn, N. Y. Hinged box. No. 1,348,878; Aug. 10; v. 277; p. 196.

Ingersoll-Rand Company. (See Christmas, Adolph F., assignor.)

Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)

International Harvester Company. (See Raney, Clemma R., assignor.)

Intertype Corporation. (See Berry, Alfred M., assignor.)

Ionides, Alexander C., Jr., London, England. Heating apparatus. No. 1,349,279; Aug. 10; v. 277; p. 276.

Jackson, Joseph W., Anderson, Ind. Electric butt-welding and molding device for metal wheel-rims. No. 1,348,948; Aug. 10; v. 277; p. 210.

Jackson, Walter A., Laurel, Ind. Tractor-steering control for plowing. No. 1,349,342; Aug. 10; v. 277; p. 288.

Jacobi, Karl J., Roselle Park, N. J., assignor to Pacific Coast Borax Company, New York, N. Y. Recovery of potassium salts and borax. No. 1,349,134; Aug. 10; v. 277; p. 246.

Jacobsen, Emil, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,349,381; Aug. 10; v. 277; p. 296.

Jarvis, John G., Stamford, N. Y. Pyroxylin sheet of low inflammability. No. 1,349,156; Aug. 10; v. 277; p. 251.

Jeffers, Owen R., assignor to General Patent Manufacturing Company, Chicago, Ill. Bathing-cap. No. 1,349,206; Aug. 10; v. 277; p. 261.

Jenkins, Massey P., Newport News, Va. Sealed lock for car-doors. No. 1,349,280; Aug. 10; v. 277; p. 276.

Jensen, Harry G. (See Foss, G. E., and Jensen.)

Jester, Ronald B., New Cumberland, W. Va. Jack. No. 1,348,879; Aug. 10; v. 277; p. 197.

Jochumsen, Harry A., Wheeling, W. Va. Boiler-closure for hand-holes. No. 1,349,510; Aug. 10; v. 277; p. 321.

Johansson, Johan P., Fannalund, Sweden. Adjustable support for electric lamps. No. 1,348,949; Aug. 10; v. 277; p. 210.

Johoson, Carl E., Boundbrook, N. J. Drier-tray. No. 1,349,458; Aug. 10; v. 277; p. 311.

Jokubaitis, Damian, Terre Haute, Ind. Starter for automobiles. No. 1,349,207; Aug. 10; v. 277; p. 261.

Jones, Jesse L., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Removing lead from copper-scrap. No. 1,349,382; Aug. 10; v. 277; p. 296.

Jordan, Jay B., East Rochester, N. Y. Sled. No. 1,349,066; Aug. 10; v. 277; p. 233.

Joseph, Frank A. (See Rice, J. M., Joseph, and Rupp.)

Jouffret, Henri V. J., Paris, France. Internal-combustion engine. No. 1,349,459; Aug. 10; v. 277; p. 311.

Joyce-Cridland Company, The. (See Ripech, C. W., and Dawley, assignors.)

Kalamazoo Loose Leaf Binder Co. (See Dixon, Samuel S., assignor.)

Kaminski, Andzei, Uniontown, Pa. Aviator's helmet. No. 1,349,950; Aug. 10; v. 277; p. 211.

Kandlbinder, Emelia F., Springfield, Ill. Combined cover and closure-remover for bottles. No. 1,349,511; Aug. 10; v. 277; p. 321.

Kasematis, George N., and B. A. Stamatelopoulos, New York, N. Y. Aeroplane. No. 1,349,460; Aug. 10; v. 277; p. 311.

Kaveney, Paul J., Bloomington, Ill. Angle-cock and actuating means therefor. No. 1,349,208; Aug. 10; v. 277; p. 261.

Kazmann, Boris. (See Kellogg, J. L., and Kazmann.)

Keegan, Francis W., et al. (See Pokorny, Frank, Jr., assignor.)

Keene Mica Products Company. (See Waling, Donald, assignor.)

Keep, Harry W. (See Howard, O. D., and Keep.)

Keiter, Walter O. (See Fry, H. E., and Keiter.)

Kellogg, John L., and B. Kazmann, Battle Creek, Mich., assignors to Kellogg Toasted Corn Flake Co. Food beverage and making same. No. 1,348,999; Aug. 10; v. 277; p. 220.

Kellogg, John L., and B. Kazmann, Battle Creek, Mich, assignors to Kellogg Toasted Corn Flake Co. Food beverage and making same. No. 1,349,000; Aug. 10; v. 277; p. 220.

Kellogg Toasted Corn Flakes Co. (See Kellogg, J. L., and Kazmann, assignors.)

Kemper, Earskin G. (See Williams, M. L., and Kemper.)

Kennedy, Dewey M., Rochester, N. Y. Signal system. No. 1,349,001; Aug. 10; v. 277; p. 220.

Kennedy, George D., Jefferson City, assignor of one-half to F. M. Strickland, Springfield, Mo. Air-heating attachment. No. 1,349,461; Aug. 10; v. 277; p. 311.

Kenyon, Louis L., Iowa City, Iowa. Cooperating means for banjo-heads. No. 1,349,067; Aug. 10; v. 277; p. 234.

Keyes, Joseph A., assignor to Locomotive Superheater Company, New York, N. Y. Damper. No. 1,349,068; Aug. 10; v. 277; p. 234.

Kilby Manufacturing Company, The. (See Terhune, Howard, assignor.)

King, Ernest J. (See Lillard, William W., assignor.)

King, Percival F., Vancouver, British Columbia, Canada. Umbrella. No. 1,349,281; Aug. 10; v. 277; p. 276.

King Sewing Machine Company. (See Smallbone, Harry E., assignor.)

Kingsbury, Albert, Pittsburgh, Pa. Thrust-bearing. No. 1,349,157; Aug. 10; v. 277; p. 251.

Kinnear Manufacturing Company. (See McCloud, Edward H., assignor.)

Kinsel, Arthur V., Los Angeles, Calif. Spark-plug. No. 1,349,158; Aug. 10; v. 277; p. 252.

Kirchner, Henry W., assignor to River and Rail Transportation Company, St. Louis, Mo. Interchangeable-unit car. No. 1,349,209; Aug. 10; v. 277; p. 261.

Kirkpatrick, Monroe C., Files Valley, assignor of one-fourth to T. Kirkpatrick and one-fourth to W. M. Shippey, Ellis County, Tex. Air-supply-valve attachment. No. 1,349,210; Aug. 10; v. 277; p. 262.

Kirkpatrick, Tim, et al. (See Kirkpatrick, Monroe C., assignor.)

Kirstin, A. J., Company. (See Gorman, John F., assignor.)

Kitsteiner, Jr., John J., Cleveland, Ohio. Scaffold. No. 1,349,426; Aug. 10; v. 277; p. 305.

Klay, Menno, Mount Hope, Ohio. Rotary internal-combustion engine. No. 1,349,512; Aug. 10; v. 277; p. 322.

Kleine, Elisee E., Bosthern, Saskatchewan, Canada. Device for washing photos. No. 1,348,881; Aug. 10; v. 277; p. 197.

Kleinsmith, Frederick, Indianapolis, Ind. Automobile-door latch. No. 1,348,882; Aug. 10; v. 277; p. 197.

Kleyensteuber, Harry M. S., Birmingham, Ala. Pipe-core machine. No. 1,349,383; Aug. 10; v. 277; p. 296.

Knemeyer, William H., San Antonio, Tex. Ice-cream freezer. No. 1,348,951; Aug. 10; v. 277; p. 211.

Knoedler, Elmer L., assignor to Welsbach Company, Gloucester City, N. J. Pot-furnace. No. 1,349,159; Aug. 10; v. 277; p. 252.

Kohler, Conrad, Zurich, Switzerland. Steam-turbine-driven vehicle. No. 1,349,282; Aug. 10; v. 277; p. 277.

Kohlhaas, Otto H., Calumet, Mich. Marker for planters. No. 1,349,462; Aug. 10; v. 277; p. 311.

Kollock, George L., et al. (See Kollock, Samuel W. M., assignor.)

Kollock, Samuel W. M., assignor of one-fourth to G. L. Kollock and one-fourth to R. P. Martin and one-fourth to W. Baran, Seattle, Wash. Mechanical movement. No. 1,349,283; Aug. 10; v. 277; p. 277.

Kornsweet, Samuel A., Los Angeles, Calif. Cornucopia serving device. No. 1,349,135; Aug. 10; v. 277; p. 247.

Kosinski, Stanislaw, assignor of one-half to F. A. Taberski, Schenectady, N. Y. Cue-tip. No. 1,349,069; Aug. 10; v. 277; p. 234.

Kovach, John J., La Belle, Pa. Station-indicator. No. 1,349,160; Aug. 10; v. 277; p. 252.

Koza, Zuzana, Akron, Ohio. Parachute. No. 1,349,513; Aug. 10; v. 277; p. 322.

Kress, Willard C., Buffalo, N. Y. Pneumatic transmission for automobiles. No. 1,349,161; Aug. 10; v. 277; p. 252.

Krohn, Nels, Chicago, Ill., assignor to The Adams & Westlake Company. Padlock. No. 1,348,884; Aug. 10; v. 277; p. 198.

Kronheim, Jacob, Cleveland, Ohio. Davenport-bed. No. 1,349,162; Aug. 10; v. 277; p. 252.

La Cour, Carl, Dixon, Ill. Resilient tire. No. 1,349,163; Aug. 10; v. 277; p. 253.

Laffoon, James F., Kansas City, Mo. Proportional distributer. No. 1,348,885; Aug. 10; v. 277; p. 198.

Laird, John W., Pasadena, Calif. Dust-cap for pneumatic-tire valves. No. 1,349,463; Aug. 10; v. 277; p. 312.

Lakin, John W., Detroit, Mich. Ball-and-socket joint. No. 1,349,002; Aug. 10; v. 277; p. 220.

Lambert, John H., assignor of one-half to J. W. Eldgedge, Belvidere, Ill. Stove-lid lifter. No. 1,349,211; Aug. 10; v. 277; p. 262.

Lancit, Louis A, and B. U. Zarger, Newark, N. J. Dental Instrument. No. 1,349,464; Aug. 10; v. 277; p. 312.

Landry, Wallace J., Baton Rouge, La. Card-holder for garment-hangers. No. 1,348,952; Aug. 10; v. 277; p. 211.

Lang, John W., Redondo Beach, Calif. Chair. No. 1,349,164; Aug. 10; v. 277; p. 253.

Lanyon, A. H., trustee. (See Perkins, Richard E., assignor.)

Latshaw, Joseph W., assignor to National Tube Company, Pittsburgh, Pa. Apparatus for dressing skelp. No. 1,349,070; Aug. 10; v. 277; p. 234.

Lauer, George L., Beatrice, Nebr. Mud-shoe. No. 1,349,514; Aug. 10; v. 277; p. 322.

Lavo, Henry, Milwaukee, Wis. Two-wheel drive. No. 1,349,212; Aug. 10; v. 277; p. 262.

Lavigne, Joseph P., assignor to Detroit Mechanical Engineering Company, Detroit, Mich. Hose-coupling. No. 1,349,284; Aug. 10; v. 277; p. 277.

Lawrence Airplane Model and Supply Company. (See Thurnau, Arthur F., assignor.)

Lawrence, Oscar A., San Francisco, Calif. Pressure-bar. No. 1,349,213; Aug. 10; v. 277; p. 262.

Le Clair, Frank J., Attleboro, assignor to Freeman-Daughaday Co., Chartley, Mass. Collar-holder. No. 1,349,071; Aug. 10; v. 277; p. 234.

Lee, Earle P., assignor to North East Electric Company, Rochester, N. Y. Commutator. No. 1,349,003; Aug. 10; v. 277; p. 221.

Lehman, Joseph H., New York, N. Y. Shutter for moving-picture machines. No. 1,349,214; Aug. 10; v. 277; p. 262.

Lehman, Joseph H., New York, N. Y. Shutter for moving-picture machines. No. 1,349,215; Aug. 10; v. 277; p. 262.

Leich Electric Company. (See Leich, Oscar M., assignor.)

Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Spark-plug. No. 1,348,886; Aug. 10; v. 277; p. 198.

Leonard, Chester S. (See Moore, G. R., and Leonard.)

Lewis, Elwood A. (See Borders, H. L., and Lewis.)

Liberty Auto Lock Co. (See Saegesser, Albert W., assignor.)

Lillard, William W., Irvington, assignor of one-half to E. J. King, Jersey City, N. J. Heating means. No. 1,349,136; Aug. 10; v. 277; p. 247.

Lindsay, William S., Newport, Vt. Fuel and air supplying apparatus. No. 1,349,465; Aug. 10; v. 277; p. 312.

Lines, Fannette O., Mount Pleasant, Iowa. Headrest. No. 1,349,072; Aug. 10; v. 277; p. 34.

Lipps, Morris, New York, N. Y. Headrest. No. 1,349,073; Aug. 10; v. 277; p. 235.

Livingston, D. McRa, et al. (See Pokorny, Frank, Jr., assignor.)

Locomobile Company, The. (See Roos, Delmar G., assignor.)

Locomotive Superheater Company. (See Keyes, Joseph A., assignor.)

Loe, Syver, Minneapolis, Minn. Transmission mechanism. No. 1,349,074; Aug. 10; v. 277; p. 235.

Lombard, Levi W., Mattapan, assignor of eleven-twentieths to W. S. Bartlett, Brookline, Mass. Injector for internal-combustion engines. No. 1,349,515; Aug. 10; v. 277; p. 322.

Louden Machinery Company, The. (See Neller, Albert H., assignor.)

Lorton, Pierre M., Paris, France. Construction of vessels of reinforced concrete. No. 1,349,075; Aug. 10; v. 277; p. 235.

Loy, Thomas H., Terre Haute, Ind. Brake mechanism for talking-machines. No. 1,349,216; Aug. 10; v. 277; p. 263.

Lugt, Gerard J., Amsterdam, Netherlands. Device for supplying cooling liquids to pistons of internal-combustion engines. No. 1,349,516; Aug. 10; v. 277; p. 322.

Lukaszewski, John, Chicago, Ill. Fountain-brush. No. 1,349,517; Aug. 10; v. 277; p. 323.

Lyle, Henry C., Beaumont, Tex. Tool-joint. No. 1,349,518; Aug. 10; v. 277; p. 323.

Lyman, Kent E., Cleveland, Ohio. Bearing-lubricating device. No. 1,349,076; Aug. 10; v. 277; p. 235.

Lynch, John J., Wason Flats, Mont. Concrete mixer and conveyer. No. 1,349,285; Aug. 10; v. 277; p. 277.

Lund, John M., and H. Anderson, Battleview, N. D. Dust-pan. No. 1,349,165; Aug. 10; v. 277; p. 253.

Lyon, Fred C., Fayette, Ohio. Phonograph-horn. No. 1,349,286; Aug. 10; v. 277; p. 277.

McAllan, James, Toronto, Ontario, Canada. Bedstead. No. 1,349,287; Aug. 10; v. 277; p. 277.

McCart, Robert, Jr., El Paso, Tex. Record-filing cabinet. No. 1,349,466; Aug. 10; v. 277; p. 312.

McChesney, Presley B., Princeton, Ky. Propelling means for motors. No. 1,349,077; Aug. 10; v. 277; p. 235.

McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Fire-resisting door. No. 1,349,519; Aug. 10; v. 277; p. 323.

McCourt, Cyril D. (See Bone, W. A., Wilson, and McCourt.)

McDonald, A. Y., M'f'g. Co. (See McDonald, John M., assignor.)

McDonald, John M., assignor to A. Y. McDonald M'f'g. Co., Dubuque, Iowa. Valve-lock. No. 1,349,139; Aug. 10; v. 277; p. 247.

McGinniss, William J., Washington, D. C. Expander for piston-rings. No. 1,348,953; Aug. 10; v. 277; p. 211.

McIntire, Hervey H., South Bend, Ind. Platen. No. 1,349,384; Aug. 10; v. 277; p. 296.

McIntosh, George. (See White, T. E., and McIntosh.)

McKeag, John, Hamlin, Alberta, Canada. Weeding-harrow. No. 1,348,887; Aug. 10; v. 277; p. 198.

McKenney, Galen, Bangor, Me. Adjustable handsaw. No. 1,349,427; Aug. 10; v. 277; p. 305.

McMillan, Orville G., Alpena, S. D. Engine. No. 1,349,520; Aug. 10; v. 277; p. 326.

Macaulay, Douglas L. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)

Macropoulos, Constantine D., New York, N. Y. Tire. No. 1,348,954; Aug. 10; v. 277; p. 211.

Maddox, Robert A., Los Angeles, Calif. Sewer-flushing mechanism. No. 1,349,078; Aug. 10; v. 277; p. 235.

Magnuson, Andrew E., New York, N. Y. Drafting-instrument. No. 1,349,550; Aug. 10; v. 277; p. 329.

Mahoney, Dennis J., Brooklyn, N. Y. Window-guard. No. 1,349,521; Aug. 10; v. 277; p. 324.

Mainwaring, Albert E. (See Thomas, W., and Mainwaring.)

Manley, Charles J., Kingston, Wash. Hair-cutting and neck-shaving device. No. 1,349,004; Aug. 10; v. 277; p. 221.

Mannhardt, Daniel W., Washington, Iowa. Valve-cap. No. 1,349,522; Aug. 10; v. 277; p. 324.

Mantle Lamp Company of America, The. (See Spangler, Frederick W., assignor.)

Maqua Company, The. (See Benham, Charles E., assignor.)

Markham, Sidney L., Jamestown, N. Y. Angular coil-spring. No. 1,349,079; Aug. 10; v. 277; p. 236.

Marshall, Henry H., Jr., Garden City, N. Y. Power-transmission device for automobiles. No. 1,349,428; Aug. 10; v. 277; p. 305.

Martel, Fred J., Hanover, N. H., C. A. Briggs, Joplin, Mo., D. L. Macaulay, Montreal, Quebec, Canada, W. R. Wright, Swarthmore, Pa., and F. Wenner, Azadia Park, D. C., assignors to N. D. Baker, Secretary of War, trustee. Machine-gun-control system. No. 1,349,140; Aug. 10; v. 277; p. 248.

Martin, Robert P., et al. (See Rollock, Samuel W. M., assignor.)

Mason, Carl T., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-switch. No. 1,346,080; Aug. 10; v. 277; p. 236.

Mason, George C., Springfield, Mass., assignor to F. D. Spotswood, Lexington, Ky. Megaphone. No. 1,349,288; Aug. 10; v. 277; p. 278.

Max Ams Machine Co., The. (See Brensinger, Julius, assignor.)
Mechanical Improvement Co. (See de Martino, Joseph, assignor.)
Mentzer, John P., Chicago, Ill. Water-color-paint outfits. No. 1,349,217; Aug. 10; v. 277; p. 263.
Merigone, Giacinto. (See Balestrino, L., and Merigone.)
Metzler, Jacob P., Geneva, N. Y. Occupant-propelled vehicle. No. 1,348,888; Aug. 10; v. 277; p. 198.
Middlebrook, Leslie E., Hall, N. Y. Timer for automobiles. No. 1,349,523; Aug. 10; v. 277; p. 324.
Middleton, Charles S., Blakely, Ga. Interest-calculator. No. 1,349,081; Aug. 10; v. 277; p. 236.
Middleton, Edward C., assignor to Triumph Cycle Company Limited, Coventry, England. Transmission shock-absorber. No. 1,349,082; Aug. 10; v. 277; p. 236.
Millar, Charles, Vancouver, British Columbia, Canada. Automobile-signal. No. 1,349,289; Aug. 10; v. 277; p. 278.
Miller, Oscar L. (See Hahn, L. R., and Miller.)
Miner, Carl S., assignor to Quaker Oats Company, Chicago, Ill. Alimentary paste. No. 1,349,524; Aug. 10; v. 277; p. 324.
Moffat, James W., Toronto, Ontario, Canada. Process and apparatus for the reduction of metallic oxid ores. No. 1,348,889; Aug. 10; v. 277; p. 198.
Mook, Joseph O., Kankakee, Ill. Traction attachment for automobiles. No. 1,349,083; Aug. 10; v. 277; p. 236.
Moon, John C., St. Louis, Mo. Pump. No. 1,349,218; Aug. 10; v. 277; p. 263.
Moore Brothers Company. (See Dabrowski, Joseph M., assignor.)
Moore, George R., and C. S. Leonard, Philadelphia, Pa. Pipe-bender. No. 1,349,219; Aug. 10; v. 277; p. 263.
Moore, Lena C., Binghamton, N. Y. Kettle-cover drainer and holder. No. 1,349,084; Aug. 10; v. 277; p. 237.
Moran, John L., Worcester, Mass., assignor to Heald Machine Company. Magnetic chuck. No. 1,349,343; Aug. 10; v. 277; p. 288.
Morgan, Henry S., assignor to Pouvailsmith Corporation, Poughkeepsie, N. Y. Cap for automobile-radiators and the like. No. 1,349,137; Aug. 10; v. 277; p. 247.
Morgan, Lewis H., assignor to The American Auto Alarm Company, Cleveland, Ohio. Audible alarm for vehicles. No. 1,349,467; Aug. 10; v. 277; p. 312.
Morrison, William N., St. Louis, Mo. Key-ring holder. No. 1,349,468; Aug. 10; v. 277; p. 313.
Morse Instrument Company. (See Morse, Robert V., assignor.)
Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Automatic fuse-setter for anti-aircraft artillery. No. 1,349,220; Aug. 10; v. 277; p. 264.
Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Vault-vestibule. No. 1,349,138; Aug. 10; v. 277; p. 247.
Mosler Safe Company, The. (See Mosler, M., and Bartels, assignors.)
Motto, Joseph M. (See Dolan, John P., assignor.)
Moulder, Duncan, San Antonio, Tex. Steering-adjuster for automobiles. No. 1,349,469; Aug. 10; v. 277; p. 313.
Mount Carmel Brass Foundry Works. (See Somers, William A., assignor.)
Mouse, Harold E., Elkins, W. Va. Dirigible headlight. No. 1,349,085; Aug. 10; v. 277; p. 237.
Moyle, Henry D., *et al.* (See Watanabe, Bunzo, assignor.)
Müller, Gebhard, New York, N. Y. Mechanical movement. No. 1,349,470; Aug. 10; v. 277; p. 313.
Murdock, George J., Newark, N. J. War-aeroplane fuel-tank. No. 1,349,290; Aug. 10; v. 277; p. 278.
Murphy, John A., Pueblo, Colo. Metal precipitator and separator. No. 1,349,086; Aug. 10; v. 277; p. 237.
Murphy, Walter P. (See Gilpin, Garth G., assignor.)
Murphy, Walter P. (See Sandman, August G., assignor.)
Murphy, Walter P. (See Sisson, Vinton E., assignor.)
Murray, Ethelbert T. R., Hertfordshire, and G. F. Shotter, London, England. Electric switch. No. 1,349,429; Aug. 10; v. 277; p. 305.
National Carbon Company. (See Feild, Alexander L., assignor.)
National Paper Can Company. (See Hulbert, Edwin F., assignor.)
National Tube Company. (See Latshaw, Joseph W., assignor.)
Neller, Albert H., assignor to The Louden Machinery Company, Fairfield, Iowa. Overhead-track hanger. No. 1,349,141; Aug. 10; v. 277; p. 248.
Newman, Albert L., Memphis, Tenn. Automatic train-stop. No. 1,349,525; Aug. 10; v. 277; p. 324.
Nicholson, Arthur D. (See Nicholson, Howard M., G. B., and A. D.)
Nicholson, George B. (See Nicholson, Howard M., G. B., and A. D.)
Nicholson, Howard M., G. B., and A. D., Pittsburgh, Pa. Dispensing apparatus. No. 1,348,890; Aug. 10; v. 277; p. 199.
Niebling, Frederick C., Southington, Conn. Square and bevel structure. No. 1,349,087; Aug. 10; v. 277; p. 237.
Niedbala, Gregory, Elkhart, Ind. Aeroplane-fuselage. No. 1,349,526; Aug. 10; v. 277; p. 325.
Nilson, John L., and J. Prince, Chicago, Ill. Vehicle-windshield. No. 1,349,430; Aug. 10; v. 277; p. 305.
Nixon, Charles W., New Orleans, La. Lock for automobiles. No. 1,348,891; Aug. 10; v. 277; p. 199.
Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Caster. No. 1,349,088; Aug. 10; v. 277; p. 237.
Noennig, Ernest T., Wittenberg, Mo. Extension-table. No. 1,349,471; Aug. 10; v. 277; p. 313.
Nolen, Robert R., Dallas, Tex. Mill. No. 1,349,221; Aug. 10; v. 277; p. 264.
North East Electric Company. (See Lee, Earle P., assignor.)
Norton, Edward P., Oakland, Calif. Safety-razor. No. 1,349,291; Aug. 10; v. 277; p. 278.
O'Dell, George L., Belding, Mich. Basket. No. 1,349,431; Aug. 10; v. 277; p. 306.
Offenhauser, Christopher. (See Hottmann, Charles W., assignor.)
Ohrt, Emil W., Reinbeck, Iowa. Spring-damper for valve mechanism. No. 1,349,089; Aug. 10; v. 277; p. 238.
Ohrt, Emil W., Reinbeck, Iowa. Spring damping means for valve mechanism. No. 1,349,090; Aug. 10; v. 277; p. 238.
Ojust Spark Plug Works. (See Welch, Samuel P., assignor.)
Olsson, Nils J., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Means for automatically cutting off the feed-motion of machine-tools. No. 1,349,222; Aug. 10; v. 277; p. 264.
O'Neill, Arthur M., assignor to J. D. Brown, Pittsburgh, Pa. Securing-bolt. No. 1,349,344; Aug. 10; v. 277; p. 288.
Optische Signale Gesellschaft mit beschränkter Haftung. (See Hönig, Edgar, assignor.)
Ormsby, Frank E., Chicago, Ill. Calipers or indicating-gage. No. 1,349,091; Aug. 10; v. 277; p. 238.
Ortman, Ed, Kokomo, Ind. Auto-signal. No. 1,349,092; Aug. 10; v. 277; p. 238.
Osborn, Alden E., New York, N. Y. Reversible internal-combustion engine. No. 1,348,955; Aug. 10; v. 277; p. 211.
Osborne, Clifton. (See Hardgrove, Burton C., assignor.)
Ostroski, Michael, Coniston, Ontario, Canada. Scaffold. No. 1,349,093; Aug. 10; v. 277; p. 238.
Overlin, William S., Portland, Oreg. Lumber-truck. No. 1,349,292; Aug. 10; v. 277; p. 278.
Owen, Archie E., Malcom, Iowa. Pump-jack. No. 1,349,094; Aug. 10; v. 277; p. 238.
Owen, William R., Utica, N. Y. Movable pocket for registers. No. 1,349,527; Aug. 10; v. 277; p. 325.
Owslak, Stephen, Chicago, Ill. Fishing-signal. No. 1,349,528; Aug. 10; v. 277; p. 325.
Pacific Coast Borax Company. (See Jacobi, Karl J., assignor.)
Packard Motor Car Company. (See Hunt, Ormond E., assignor.)
Paff, Charles, New York, N. Y. Retaining-wall for embankments. No. 1,349,166; Aug. 10; v. 277; p. 253.
Paper Service Company. (See Brown, G. G., and Schuchart, assignors.)
Parisi, Sebastiano, New York, N. Y. Innersole. No. 1,349,095; Aug. 10; v. 277; p. 239.
Parrett Tractor Company. (See Frudden, Conrad E., assignor.)
Pattison, Abraham C., Cumberland, Wis. Combined toaster and boiler-support. No. 1,349,529; Aug. 10; v. 277; p. 325.
Pattosien, William J., San Francisco, Calif. Power ship-cleaning device. No. 1,349,167; Aug. 10; v. 277; p. 253.
Pavey, William B. (See French, G. M., and Pavey.)
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,349,345; Aug. 10; v. 277; p. 289.
Pearce, Herbert, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. No. 1,349,385; Aug. 10; v. 277; p. 297.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Treatment of soapy liquor. No. 1,349,530; Aug. 10; v. 277; p. 325.
Peet, William, Kansas City, Mo. Box-end-sealing machine. No. 1,349,432; Aug. 10; v. 277; p. 306.
Peerless Motor Car Company, The. (See Frech, Theodore W., assignor.)
Peiler, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-feeding machine and process. No. 1,349,551; Aug. 10; v. 277; p. 329.
Pemberton-Billing, Noel, Hertford, England. Domestic heating and cooking apparatus. No. 1,349,096; Aug. 10; v. 277; p. 239.
Perkins, Richard E., Joplin, Mo., assignor to A. H. Lanyon, Pittsburgh, Kans., trustee for The Dealers Manufacturing Company. Smoking-pipe. No. 1,349,293; Aug. 10; v. 277; p. 279.
Peroxide Specialty Company, The. (See Fleck, Herman, assignor.)
Peterson, Julius C., Spokane, Wash. Sweatband for hats. No. 1,349,472; Aug. 10; v. 277; p. 313.
Petigor, Morris H. (See Adams, Edward M., assignor.)
Petters Limited. (See Brooks, Herbert, assignor.)

Pfeffer, Oscar W., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Fuel-pump. No. 1,349,005; Aug. 10; v. 277; p. 221.
Phillips, Edward E., Syracuse, N. Y. Bottle-capping machine. No. 1,349,097; Aug. 10; v. 277; p. 239.
Phillips, William W., Richmond, Va. Automatic coupling. No. 1,349,433; Aug. 10; v. 277; p. 306.
Pierce, Harry S., Wilmington, Del. Sash attachment. No. 1,349,168; Aug. 10; v. 277; p. 254.
Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Eyelet-machine. No. 1,348,892; Aug. 10; v. 277; p. 199.
Pitman, Henry L., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,349,386; Aug. 10; v. 277; p. 297.
Pittsburgh Lamp, Brass & Glass Company. (See Yokel, Frank, assignor.)
Pittsburgh Plate Glass Company. (See Brown, Clarence M., assignor.)
Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
Plastoid Products. (See Routt, Orville L., assignor.)
Pokorny, Frank, Jr., assignor of one-third to F. W. Keegan and one-third to D. M. Livingston, New York, N. Y. Governor. No. 1,348,956; Aug. 10; v. 277; p. 212.
Pope, Frederick J., New Rochelle, assignor to W. B. Thompson, Yonkers, N. Y. Illumination of pictures. No. 1,348,957; Aug. 10; v. 277; p. 212.
Pouvailsmith Corporation. (See Morgan, Henry S., assignor.)
Preston, Edward S., Chicago, Ill. Dashboard lamp-socket. No. 1,348,893; Aug. 10; v. 277; p. 199.
Price, Walter B., Los Angeles, Calif., and E. Dietz, New Orleans, La. Apparatus for continuously cracking oils. No. 1,349,294; Aug. 10; v. 277; p. 279.
Prince, Clarence K., Westfield, Mass. Pipe-flange-turning machine. No. 1,349,434; Aug. 10; v. 277; p. 306.
Prince, John. (See Nilson, J. L., and Prince.)
Quaker Oats Company. (See Miner, Carl S., assignor.)
Quintin, Clarence E., assignor to L. W. Riddle, Glen Riddle, Pa. Oil-cup. No. 1,349,098; Aug. 10; v. 277; p. 239.
Rahne, Rudolf G. N., Gottenborg, Sweden. Finger-board for violins. No. 1,348,894; Aug. 10; v. 277; p. 200.
Raney, Clemma R., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Bundle-carrier. No. 1,349,435; Aug. 10; v. 277; p. 306.
Rattermann, George B., Chicago, Ill., and W. W. Garrison, Birmingham, Ala. Automatic fire-alarm. No. 1,349,531; Aug. 10; v. 277; p. 325.
Ray, Paul H., *et al.* (See Watanabe, Bunzo, assignor.)
Reath, Calvin. (See Scanlin, E., and Reath.)
Redpath, Corabell, Los Angeles, Calif. Dolly. No. 1,349,099; Aug. 10; v. 277; p. 240.
Reini, William, Secaucus, N. J. Antiskid for tires. No. 1,349,295; Aug. 10; v. 277; p. 279.
Reinhold, Frederick A., Jr., Astoria, N. Y. Collar-button. No. 1,348,958; Aug. 10; v. 277; p. 212.
Research Corporation. (See Clevenger, G. H., and Caron, assignors.)
Restucci, Giuseppe, Naples, Italy. Device for superheating steam. No. 1,348,895; Aug. 10; v. 277; p. 200.
Revere Rubber Company. (See Fisher, George F., assignor.)
Reynolds, Bruce A. (See Reynolds, William T. and B. A.)
Reynolds, William T. and B. A., Port Arthur, Tex. Dynamo-electric machine. No. 1,349,100; Aug. 10; v. 277; p. 240.
Rhodes, Albert T., Worcester, Mass. Pavement. No. 1,348,959; Aug. 10; v. 277; p. 212.
Rice, Joseph M., F. A. Joseph, and A. D. Rupp, New Haven, Conn., assignors to L. Candee & Company. Rubber footwear and method of manufacturing the same. No. 1,349,296; Aug. 10; v. 277; p. 279.
Riddle, Leander W. (See Quintin, Clarence E., assignor.)
Riesland, Daniel W., Duluth, Minn. Anatomical developing and adjusting machine. No. 1,348,896; Aug. 10; v. 277; p. 200.
Rieth, Charles H., St. Louis, Mo. Implement-handle. No. 1,349,223; Aug. 10; v. 277; p. 264.
Rightmire, Franklin. (See Fichten, Frank M., assignor.)
Ringland, Albert, Philadelphia, Pa. Portable Brinnell hardness-tester. No. 1,348,897; Aug. 10; v. 277; p. 200.
Ripsch, Charles W., and J. C. Dawley, assignors to The Joyce-Cridland Company, Dayton, Ohio. Self-lowering lifting-jack. No. 1,349,101; Aug. 10; v. 277; p. 240.
River and Rail Transportation Company. (See Kirchner, Henry W., assignor.)
Robinson, Anderson C. S., Suffolk, Va. Dental ornament. No. 1,349,102; Aug. 10; v. 277; p. 240.
Roehr, Ada, Brooklyn, N. Y. Clothespin. No. 1,349,224; Aug. 10; v. 277; p. 264.
Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,349,103; Aug. 10; v. 277; p. 240.
Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,349,104; Aug. 10; v. 277; p. 241.
Roos, Delmar G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Engine-indicator. No. 1,349,346; Aug. 10; v. 277; p. 289.
Rosenblum, Henry I., New York, N. Y. Clamp device. No. 1,349,225; Aug. 10; v. 277; p. 265.
Rosenthal, Charles, New York, N. Y. Drinking-cup holder for water-bottles. No. 1,349,473; Aug. 10; v. 277; p. 314.
Ross, Allen B., Seattle, Wash. Baking oven. No. 1,349,436; Aug. 10; v. 277; p. 307.
Ross, Archie C., Atchison, Kans. Awning-fastener. No. 1,349,532; Aug. 10; v. 277; p. 326.
Ross, Oscar A., New York, N. Y. Military aeroplane or the like. No. 1,349,105; Aug. 10; v. 277; p. 241.
Routt, Orville L., assignor to Plastoid Products, Incorporated, Los Angeles, Calif. Means for making plasterboard. No. 1,348,898; Aug. 10; v. 277; p. 200.
Royer, Edwin C., Philadelphia, Pa., assignor of one-half to B. J. Boyle, Philadelphia, Pa. Expansion-bolt. No. 1,349,437; Aug. 10; v. 277; p. 307.
Ruff, William J., Quincy, Ill. Carbureter. No. 1,349,006; Aug. 10; v. 277; p. 221.
Rupp, Alwyn D. (See Rice, J. M., Joseph, and Rupp.)
Saegesser, Albert W., Granite City, Ill., assignor to Liberty Auto Lock Co., St. Louis, Mo. Automobile-lock for disk wheels. No. 1,348,960; Aug. 10; v. 277; p. 212.
Sager, J. H., Company. (See Sager, James H., assignor.)
Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper. No. 1,348,961; Aug. 10; v. 277; p. 213.
Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper. No. 1,348,962; Aug. 10; v. 277; p. 213.
Samplawski, Stanislaw, Bloomfield, N. J. Window-screen. No. 1,349,438; Aug. 10; v. 277; p. 307.
Sandman, August G., Baltimore, Md., assignor to W. P. Murphy, Chicago, Ill. Freight-car. No. 1,349,106; Aug. 10; v. 277; p. 241.
Santos y Suarez, Isaac, and R. de Arozarena y Mendive, Habana, Cuba. Internal-combustion machine. No. 1,349,111; Aug. 10; v. 277; p. 242.
Sargent, Fred W., assignor to Tolman Print, Incorporated, Brockton, Mass. Advertising display device. No. 1,348,899; Aug. 10; v. 277; p. 200.
Sartakoff, Jack D., New York, N. Y. Automatic water-feed for storage batteries. No. 1,349,297; Aug. 10; v. 277; p. 280.
Saurer, Firma Adolph. (See Schlatter, G., and Segin, assignors.)
Sauter, Herman C., New York, N. Y. Spinning-top. No. 1,349,226; Aug. 10; v. 277; p. 265.
Scanlin, Edward, and C. Reath, Philadelphia, Pa. Yarn-feed mechanism for knitting-machines. No. 1,349,298; Aug. 10; v. 277; p. 280.
Schaefer, Edward J., Hespeler, Ontario, Canada. Phonograph-cabinet. No. 1,349,439; Aug. 10; v. 277; p. 307.
Schafer, Christian E., East Cleveland, Ohio. Cover-retainer. No. 1,348,963; Aug. 10; v. 277; p. 213.
Scheib, Peter, assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drill-sharpening mechanism. No. 1,349,169; Aug. 10; v. 277; p. 254.
Schlatter, Gustav, Steinach, and G. Segin, Arbon, Switzerland, assignors to Firma Adolph Saurer, Arbon, Switzerland. Regulating device for watering-carts. No. 1,349,440; Aug. 10; v. 277; p. 307.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Carriage of large-caliber guns firing from railway-tracks. No. 1,349,533; Aug. 10; v. 277; p. 326.
Schwartz, David S., St. Paul, Minn. Brake-head. No. 1,349,534; Aug. 10; v. 277; p. 326.
Schwidetzky, Oscar O. R., Hasbrouck Heights, N. J., assignor to Beckton, Dickinson & Co., Rutherford, N. J. Syringe. No. 1,349,474; Aug. 10; v. 277; p. 314.
Scintilla, Firm. (See Hurlimann, Ernst, assignor.)
Scintilla, Firm. (See Schneider, J., Hürlimann, and Billon, assignors.)
Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Inking mechanism. No. 1,348,900; Aug. 10; v. 277; p. 201.
Schneider, Jacques, Solothurn, E. Hürlimann, Zuchwil, and F. Billon, assignors to the Firm Scintilla, Solothurn, Switzerland. High-tension distributers for magneto-electric ignition-machines. No. 1,349,299; Aug. 10; v. 277; p. 280.
Schuch, Louis E., Cincinnati, Ohio. Steam-condenser and oil-separator for steam-driven vehicles. No. 1,349,007; Aug. 10; v. 277; p. 221.
Schuchart, Paul A. (See Brown, G. G., and Schuchart.)
Scott, Horace J., Hill City, Minn. Pail. No. 1,349,008; Aug. 10; v. 277; p. 222.
Sealy, Ester M., Fort Shafter, Hawaii. Underscorer for typewriters. No. 1,349,107; Aug. 10; v. 277; p. 241.
Seely, Thomas H., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,348,901; Aug. 10; v. 277; p. 201.
Seely, Thomas H., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Speed-changing mechanism. No. 1,348,902; Aug. 10; v. 277; p. 201.
Segin, Gustav. (See Schlatter, G., and Segin.)
Seiniger, David, Middletown, N. Y. Oil-burning heater. No. 1,349,475; Aug. 10; v. 277; p. 314.
Selwa, Louis. (See Selwa, Stanley, assignor.)
Selwa, Stanley, assignor of one-fourth to L. Selwa, Detroit, Mich. Vapor-stove. No. 1,348,964; Aug. 10; v. 277; p. 213.

Semet-Solvay Company. (See Torrey, Bates, Jr., assignor.)
Setzer, Chester G. (See Foster, Harry C., assignor.)
Shaffer, Ralph R. (See Brown, C. S., and Shaffer.)
Shippen, Charles S., Tipperary, Wyo. Wire-stretcher. No. 1,349,108; Aug. 10; v. 277; p. 241.
Shippert, Warren A., Chicago, Ill. Milking-machine for cows. No. 1,349,441; Aug. 10; v. 277; p. 308.
Shippey, William M., *et al.* (See Kirkpatrick, Monroe C., assignor.)
Shkor, John, Sparrows Point, Md. Combination chair and sofa. No. 1,349,227; Aug. 10; v. 277; p. 265.
Shotter, George F. (See Murray, E. T. R., and Shotter.)
Silberstang, Jacob, New York, N. Y. Phonograph-needle-sharpening attachment. No. 1,349,009; Aug. 10; v. 277; p. 222.
Silnes, Sigvart, Halma, Minn. Coupling device. No. 1,349,300; Aug. 10; v. 277; p. 280.
Simmons, John E., Portland, Oreg. Spring-support for vehicle-bodies. No. 1,349,170; Aug. 10; v. 277; p. 254.
Simpson, Arthur M. (See Simpson, George N. and A. M.)
Simpson, David J., Chicago, Ill., assignor to N. S. Amstutz, Valparaiso, Ind. Steel-treatment-transferring system and apparatus therefor. No. 1,348,903; Aug. 10; v. 277; p. 201.
Simpson, George N., Chicago, Ill. Liquid car control. No. 1,349,387; Aug. 10; v. 277; p. 297.
Simpson, George N. and A. M., Chicago, Ill. Car control. No. 1,349,388; Aug. 10; v. 277; p. 297.
Simpson, Judson L., Kennebunk, Me., assignor of one-half to A. A. Wheeler, Somerville, Mass. Sugar-dispenser. No. 1,349,228; Aug. 10; v. 277; p. 265.
Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)
Singer Manufacturing Company, The. (See Crockett, William P., assignor.)
Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Sheet-metal end structure for railway-cars. No. 1,349,442; Aug. 10; v. 277; p. 308.
Skinner, Onias C., Montrose, Colo. Gearless rotary clutch and transmission mechanism. No. 1,349,229; Aug. 10; v. 277; p. 266.
Skublin, Charles P., assignor to W. A. Adams, Detroit, Mich. Trolley-wheel. No. 1,349,230; Aug. 10; v. 277; p. 266.
Smallbone, Harry E., assignor to King Sewing Machine Company, Buffalo, N. Y. Mounting for shuttle-operating levers. No. 1,348,965; Aug. 10; v. 277; p. 213.
Smith, David C., Schenectady, N. Y. Paint. No. 1,348,904; Aug. 10; v. 277; p. 202.
Smith, Floyd C. (See Bissell, C. H., and Smith.)
Smith Gas Engineering Company, The. (See Smith, Harry F., assignor.)
Smith, Harry F., Dayton, Ohio, assignor to The Smith Gas Engineering Company. Apparatus for purifying gases. No. 1,348,966; Aug. 10; v. 277; p. 214.
Smith, Harry J., Lakewood, Ohio. Automatic belt-tightener. No. 1,348,905; Aug. 10; v. 277; p. 202.
Smith, Henry W., Washington, D. C. Cone-sack. No. 1,349,535; Aug. 10; v. 277; p. 326.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-Machine. No. 1,349,109; Aug. 10; v. 277; p. 242.
Snyder, William O., Veedersburg, Ind. Toothbrush and paste case. No. 1,349,110; Aug. 10; v. 277; p. 242.
Societe Anonyme Des Automobiles & Cycles Peugeot. (See Glauque, Pierre L. A., assignor.)
Societe d'Etudes Chimiques pour l'Industrie. (See Darier, G., and Goudet, assignors.)
Solberg, Isaac, Rice Lake, Wis. Ground-anchor. No. 1,349,476; Aug. 10; v. 277; p. 314.
Solvay Process Company, The. (See Sundstrom, Carl, assignor.)
Somers, William A., assignor to The Mount Carmel Brass Foundry Works, Inc., Hamden, Conn. Handle. No. 1,348,967; Aug. 10; v. 277; p. 214.
Sörensen, Marius M., Vallerød, Denmark. Pad for sole-laying machines. No. 1,349,301; Aug. 10; v. 277; p. 280.
Spangler, Frederick W., assignor to The Mantle Lamp Company of America, Chicago, Ill. Wick cleaner and shaper. No. 1,349,010; Aug. 10; v. 277; p. 222.
Spencer, Robert H., Turlock, Calif. Railway-tie. No. 1,349,171; Aug. 10; v. 277; p. 254.
Spery, Philmore F., Chicago, Ill. Radiator for internal-combustion engines. No. 1,349,011; Aug. 10; v. 277; p. 222.
Spitz, Charles, New York, N. Y. Roasting-pan. No. 1,349,302; Aug. 10; v. 277; p. 280.
Splitdorf Electrical Company. (See Mason, Carl T., assignor.)
Splitdorf Electrical Company. (See Van Deventer, Harly, R., assignor.)
Spotswood, Frank D. (See Mason, George C., assignor.)
Stabell, Joseph F., Buffalo, N. Y. Apparatus for use in road-bed construction. No. 1,349,012; Aug. 10; v. 277; p. 222.
Stamatelopoulos, Bartholomus A. (See Kasematis, G. N., and Stamatelopoulos.)
Stamp, Hugo O., Milwaukee, Wis. Self-loading concrete mixing and distributing machine. No. 1,349,231; Aug. 10; v. 277; p. 266.
Standard Corrugated Box Co. (See Borders, H. L., and Lewis, assignors.)
Standard Manufacturing Company. (See Elmstrom, Ansbelm B., assignor.)
Standard Parts Company, The. (See Annable, Lee V., assignor.)
Stanko, John, Kool, Wyo. Needle-holder. No. 1,349,232; Aug. 10; v. 277; p. 266.
Stanley, William H., Montreal, Quebec, Canada. Coloring and parting material for dental impressions and molds. No. 1,349,013; Aug. 10; v. 277; p. 223.
Stark, Ottmar G. (See Flammang, John, assignor.)
Stearns, Frederick S., Swampscott, Mass., assignor to F. G. Gale, Waterville, Quebec, Canada. Current-regulator for electric welding-machines. No. 1,349,303; Aug. 10; v. 277; p. 281.
Steinmetz, Joseph A., Philadelphia, Pa. Submarine-destroying bomb. No. 1,349,014; Aug. 10; v. 277; p. 223.
Steinmetz, Robert, assignor of one-tenth to S. S. Amdursky, Rochester, N. Y. Cushion-cover for seats and backs of chairs. No. 1,349,347; Aug. 10; v. 277; p. 289.
Steinrok, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Manufacture of treated stone. No. 1,349,389; Aug. 10; v. 277; p. 298.
Stephenson, Leonard D., New York, N. Y., assignor, by mesne assignments, to Paper Bottle and Can Company, Inc., Wilmington, Del. Machine for capping multisided paper bottles. No. 1,349,233; Aug. 10; v. 277; p. 267.
Stephenson, Leonard D., New York, N. Y., assignor, by mesne assignments, to American Paper Bottle and Can Company, Inc., Wilmington, Del. Machine for capping multisided paper bottles. No. 1,349,234; Aug. 10; v. 277; p. 267.
Stevenson, Ashton G., New York, N. Y., assignor to Chicago Lino-Tabler Company, Chicago, Ill. Ruled printing-form. No. 1,349,536; Aug. 10; v. 277; p. 326.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,015; Aug. 10; v. 277; p. 223.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,016; Aug. 10; v. 277; p. 223.
Stocker, William H., Philadelphia, Pa. Wicker-panel. No. 1,349,477; Aug. 10; v. 277; p. 314.
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St. Onge, Amasa. (See Bahan, G. F., and St. Onge.)
Stout, Oscar M., Brooklyn, N. Y. Chocolate-developing machinery. No. 1,349,235; Aug. 10; v. 277; p. 267.
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Strohbach, Henry, New York, N. Y. Coffee-urn. No. 1,349,236; Aug. 10; v. 277; p. 267.
Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
Sudderth, W. J. (See Horne, Henry M., assignor.)
Sugimura, Matthew Y., New York, N. Y. Independently-detachable undershade for light-standards. No. 1,349,478; Aug. 10; v. 277; p. 315.
Sullivan Machinery Company. (See Gilman, George H., assignor.)
Sunbeam Chemical Company. (See Cates, Leland C., assignor.)
Sundh, August, Hastings-on-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Apparatus for treating metal strips. No. 1,349,444; Aug. 10; v. 277; p. 308.
Sundh Engineering and Machine Company. (See Sundh, August, assignor.)
Sundstrom, Carl, Detroit, Mich., assignor to The Solvay Process Company, Solvay, N. Y. Recovering constituents of value from natural alkaline deposits. No. 1,349,445; Aug. 10; v. 277; p. 308.
Sundstrom, Carl, Syracuse, N. Y., assignor to The Solvay Process Company, Solvay, N. Y. Recovering borax from solutions containing sodium borates. No. 1,349,446; Aug. 10; v. 277; p. 309.
Sundstrom, Carl, Syracuse, N. Y., assignor to The Solvay Process Company, Solvay, N. Y. Obtaining sodium bicarbonate from alkaline waters. No. 1,349,447; Aug. 10; v. 277; p. 309.
Surface Combustion. (See Bone, W. A., Wilson, and McCourt, assignors.)
Swallender, Swante J. P., Chicago, Ill. Loose-file-card holder. No. 1,348,906; Aug. 10; v. 277; p. 202.
Swartz Electric Company. (See Swartz, Ira T., assignor.)
Swartz, Ira T., assignor to Swartz Electric Company, Indianapolis, Ind. Electric power system. No. 1,348,907; Aug. 10; v. 277; p. 202.
Sweetland, Ernest J., assignor, by mesne assignments, to United Filters Corporation, Montclair, N. J. Filter. No. 1,349,238; Aug. 10; v. 277; p. 268.
Swett, Charles E., Boston, assignor of one half to H. H. Beckwith, Brookline, Mass. Shoe-stiffener. No. 1,348,968; Aug. 10; v. 277; p. 214.
Swinehart, James A., Akron, Ohio. Making elastic vehicle-tires. No. 1,349,390; Aug. 10; v. 277; p. 298.
Taberski, Frank A. (See Kosinski, Stanislaw, assignor.)

Talbot, George H., Newtonville, Mass. Molding-machine. No. 1,349,017; Aug. 10; v. 277; p. 223.
Taylor, Marion, Soudan, Va. Automatic train-stop. No. 1,349,172; Aug. 10; v. 277; p. 254.
Taylor, Samuel W., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Bottle-capping apparatus. No. 1,348,908; Aug. 10; v. 277; p. 202.
Taylor-Wharton Iron and Steel Company. (See Cahill, Philip J., assignor.)
Terashima, Toyojiro, Tokyo, Japan. Stereoscope. No. 1,349,018; Aug. 10; v. 277; p. 224.
Terhune, Howard, East Cleveland, assignor to The Kilby Manufacturing Company, Cleveland, Ohio. Drop-hammer. No. 1,348,969; Aug. 10; v. 277; p. 214.
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Thiman, Knut G., New York, N. Y. Rule attachment. No. 1,349,349; Aug. 10; v. 277; p. 290.
Thomas, Herbert O. (See Willis, F. L., and Thomas.)
Thomas, Walter and A. E. Mainwaring, Nanaimo, assignors to Fuel Conservation Company, Limited, Vancouver, British Columbia, Canada. Heat-generating furnace. No. 1,349,537; Aug. 10; v. 277; p. 327.
Thompson, Benjamin L., Roanoke, Va. Electric-light-bulb stabilizer. No. 1,348,970; Aug. 10; v. 277; p. 214.
Thompson, Charles E. (See Garman, H. B., and Buck, assignors.)
Thompson, Harry E. (See Butler, R. T., and Thompson.)
Thompson, William B. (See Pope, Frederick J., assignor.)
Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,349,391; Aug. 10; v. 277; p. 298.
Thurman, Arthur F., assignor to Lawrence Airplane Model and Supply Company, Chicago, Ill. Toy aeroplane. No. 1,348,971; Aug. 10; v. 277; p. 215.
Tillson, Edwin D., assignor to Associated Engineers Company, Chicago, Ill. Lamp-guard. No. 1,349,392; Aug. 10; v. 277; p. 298.
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Timosci, Antonio T., San Jose, Calif. Oil-burner. No. 1,349,479; Aug. 10; v. 277; p. 315.
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Tobias, John M., Pittsburgh, Pa. Stove. No. 1,348,972; Aug. 10; v. 277; p. 215.
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Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone toll-circuits. No. 1,348,909; Aug. 10; v. 277; p. 202.
Torrey, Bates, Jr., Syracuse, N. Y., assignor to Semet-Solvay Company, Solvay, N. Y. Process of and apparatus for recovering the ammonia content of coal-gas. No. 1,349,393; Aug. 10; v. 277; p. 298.
Townsend, Layton W., Hamilton, Ontario, Canada. Folding suit-hanger. No. 1,349,022; Aug. 10; v. 277; p. 224.
Triumph Cycle Company. (See Middleton, Edward C., assignor.)
Trolle-Bonde, Gustaf, Trolleholm, Sweden. Apparatus for airing stored corn. No. 1,349,538; Aug. 10; v. 277; p. 327.
Trotter, Albert, Loughton, England. Bed-table combined with cupboards or like receptacles. No. 1,349,023; Aug. 10; v. 277; p. 225.
Trotinow, Carl F., Rock Island, Ill. Bottle-capping machine. No. 1,348,973; Aug. 10; v. 277; p. 215.
Trump, Edward N., Syracuse, N. Y., and F. Friedrichs, Detroit, Mich., assignors to Humphrey Gas Pump Company. Pump. No. 1,349,394; Aug. 10; v. 277; p. 299.
Trump, Edward N., and F. Friedrichs, Syracuse, N. Y., assignors to Humphrey Gas Pump Company. Pump. No. 1,349,395; Aug. 10; v. 277; p. 299.
Tunks, Charles A., Cleveland, Ohio, assignor to Auto Ordnance Corporation, New York, N. Y. Magazine. No. 1,349,350; Aug. 10; v. 277; p. 290.
Tussing, Benjamin F., Fruitland, Idaho. Mechanism for assorting fruit by weight. No. 1,349,304; Aug. 10; v. 277; p. 281.
Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)
Underwood Computing Machine Company. (See Wright, Walter, assignor.)
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Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
Underwood Typewriter Company. (See White, William L., assignor.)
United Filters Corporation. (See Sweetland, Ernest J., assignor.)
United Shoe Machinery Corporation. (See Frye, Daniel M., Jr., assignor.)
United Shoe Machinery Corporation. (See Goddu, George, assignor.)
United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
Valley Mould and Iron Corporation. (See Coates, Ray G., assignor.)
Valois, Felix E., assignor to Hamel Shoe Machinery Company, Haverhill, Mass. Work-feeding mechanism for channeling-machines. No. 1,349,239; Aug. 10; v. 277; p. 268.
Van Clief, Ray A., Buffalo, N. Y. Label. No. 1,349,396; Aug. 10; v. 277; p. 299.
Van Deventer, Harry R., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Combined generator and pump. No. 1,349,397; Aug. 10; v. 277; p. 299.
Veeder, Orison, New Windsor, Ill. Vertically-adjustable gate. No. 1,349,173; Aug. 10; v. 277; p. 254.
Vianch, Samuel, Sioux City, Iowa. Firearm. No. 1,348,910; Aug. 10; v. 277; p. 203.
Voith, George F., Philadelphia, Pa. Repeating device for talking-machines. No. 1,349,240; Aug. 10; v. 277; p. 268.
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Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,349,024; Aug. 10; v. 277; p. 225.
Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Mechanical pencil. No. 1,349,025; Aug. 10; v. 277; p. 225.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,174; Aug. 10; v. 277; p. 255.
Waling, Donald, assignor to Keene Mica Products Company, Keene, N. H. Machine for manufacturing composite mica. No. 1,349,351; Aug. 10; v. 277; p. 299.
Walker, Asa C., Mount Airy, assignor of one-half to F. M. Boston, Atlanta, Ga. Tie-spacing device for railways. No. 1,349,026; Aug. 10; v. 277; p. 225.
Walker, Percevall E., Holbrook, Oreg. Chicken-brooder. No. 1,349,175; Aug. 10; v. 277; p. 255.
Walker, William L., New York, N. Y. Signaling apparatus. No. 1,349,305; Aug. 10; v. 277; p. 281.
Wallis, John L., Andalusia, Ala., assignor to W. C. Fritter, deceased, Dothan, Ala.; N. C. Fritter administratrix. Hay-press. No. 1,348,911; Aug. 10; v. 277; p. 203.
Walsh, Vincent, New York, N. Y. Light-distributer. No. 1,349,241; Aug. 10; v. 277; p. 268.
Wappler Electric Co. (See Fayer, Charles, assignor.)
Ward, Willis C., Orchard Lake, Mich. Boat-sail. No. 1,348,912; Aug. 10; v. 277; p. 203.
Warren, Alanson C., assignor of one-half to V. M. Warren, Stockton, Calif. Landing device for aeroplanes. No. 1,349,242; Aug. 10; v. 277; p. 268.
Warren, Frank R., Chicago, Ill. Steering-wheel lock. No. 1,349,027; Aug. 10; v. 277; p. 226.
Warren, Violet M. (See Warren, Alanson C., assignor.)
Watanabe, Bunzo, assignor of one-tenth to H. D. Moyle and P. H. Bay, Salt Lake City, Utah. Coke-rake. No. 1,349,176; Aug. 10; v. 277; p. 255.
Waterbury Farrel Foundry and Machine Company, The. (See Pierson, William D., assignor.)
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Power-lift plow. No. 1,349,028; Aug. 10; v. 277; p. 226.
Watkins, Everett A., Wichita, Kans. Seed-grader. No. 1,349,306; Aug. 10; v. 277; p. 281.
Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)
Wayne Oil Tank & Pump Company. (See Eilers, Frank B., assignor.)
Weidrick, Louie T., Baltimore, Md. Portable Electric Rivet-Heater. No. 1,349,539; Aug. 10; v. 277; p. 327.
Weir Stove Company. (See Anthony, Joseph L., assignor.)
Weis, Paul B., assignor to Aurora Door Hanger & Specialty Company, Aurora, Ill. Folding-door-hanger equipment. No. 1,349,398; Aug. 10; v. 277; p. 299.
Weis, Paul B. assignor to Aurora Door Hanger and Specialty Company, Aurora, Ill. Folding-door-hanger equipment. No. 1,349,399; Aug. 10; v. 277; p. 300.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Fibrous products. No. 1,349,112; Aug. 10; v. 277; p. 242.
Weiss, Julia, Wenosha, Wis. Garment. No. 1,349,029; Aug. 10; v. 277; p. 226.
Welch, Samuel P., assignor to Ojus Spark Plug Works, Atlantic City, N. J. Spark-plug. No. 1,348,913; Aug. 10; v. 277; p. 203.
Welshbach Company. (See Knoedler, Elmer L., assignor.)
Wende, Hermann A., Buffalo, N. Y. Bell-ringing mechanism. No. 1,349,400; Aug. 10; v. 277; p. 300.
Wenner, Frank. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)
Weremko, Joseph M., Herrick, Ohio. Match-box. No. 1,349,243; Aug. 10; v. 277; p. 269.
Western Electric Company. (See Arnold, Harold D., assignor.)
Western Vulcanizer Manufacturing Company. (See Bitter, Arthur A., assignor.)
Westinghouse Air Brake Company, The. (See Brown, Thomas R., assignor.)
Westinghouse Electric and Manufacturing Company. (See Bakken, Andrew H., assignor.)

Westinghouse Electric and Manufacturing Company. (See Barclay, D., and Dudley, assignors.)
Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Copley, Almon W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eckmann, Siegmund H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Egan, William F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hall, Arthur J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hallock, Fletcher D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hester, Edgar A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hipple, Oliver P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jones, Jesse L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pearce, Herbert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Steinrok, Charles L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thornton, Frank, Jr., assignor.)
Westling, Eric H., Antioch, Calif. Obtaining potassium and other alkali-metal compounds. No. 1,349,113; Aug. 10; v. 277; p. 242.
Wheeler, Asa A. (See Simpson, Judson L., assignor.)
White, Thomas E., and G. McIntosh, Newark, N. J. Phonograph-motor. No. 1,349,401; Aug. 10; v. 277; p. 300.
White, William L., Birmingham, Ala., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,244; Aug. 10; v. 277; p. 269.
Whiteman, George W., Philadelphia, Pa. Insulated rail-joint. No. 1,349,352; Aug. 10; v. 277; p. 290.
Whitney, Francilla, Dorchester, Mass. Comforter. No. 1,349,540; Aug. 10; v. 277; p. 327.
Wiemer, Albert, Bradley, Ill. Cabinet-trap. No. 1,349,177; Aug. 10; v. 277; p. 255.
Wiggers, Albert, Jersey City, N. J. Folding article-holder. No. 1,349,402; Aug. 10; v. 277; p. 300.
Wiggs, Harry E., Mannford, Okla. Tool for holding hoes while sharpening the same. No. 1,349,178; Aug. 10; v. 277; p. 255.
Wigle, Wilson B., Montebello, Calif. Wheel-gudgeon. No. 1,349,030; Aug. 10; v. 277; p. 226.
Wilber, Oscar H., Jr., Mobile, Ala. Rotary engine. No. 1,349,353; Aug. 10; v. 277; p. 290.
Willett, Frank N. L., Aurora, Ill. Sheep-shears. No. 1,348,914; Aug. 10; v. 277; p. 203.
Williams, Melford L., and E. G. Kemper, Dallas, Tex. Cotton-separator. No. 1,349,142; Aug. 10; v. 277; p. 248.
Willis, Frank L., and H. O. Thomas, Santa Rosa, Calif. Tire-rim tool. No. 1,349,541; Aug. 10; v. 277; p. 327.
Wilsmore, John, Woollahra, near Sydney, New South Wales, Australia. Pneumatic dust-collecting system and apparatus therefor. No. 1,349,480; Aug. 10; v. 277; p. 315.
Wilson & Co., Inc. (See Blocksom, Berget H., assignor.)
Wilson, James W. (See Bone, W. A., Wilson, and McCourt.)
Windahl, Henry, New Sharon, Iowa. Sanitary chicken-roost. No. 1,349,031; Aug. 10; v. 277; p. 226.
Windsor, Cecil S., London, England. Self-locking pivoted joint. No. 1,349,032; Aug. 10; v. 277; p. 227.
Winn, Charles A., assignor to Chicago Bearings Company, Chicago, Ill. Roller-bearing. No. 1,349,307; Aug. 10; v. 277; p. 281.
Winslow Safety High-Pressure Boiler Company. (See Winslow, William H., assignor.)
Winslow, William H., assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill. Removable plug for boilers and the like. No. 1,348,915; Aug. 10; v. 277; p. 204.
Winslow, William H., River Forest, assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill. Fuel-feed system. No. 1,348,916; Aug. 10; v. 277; p. 204.
Witt, John F., Winchendon, Mass. Clean-out header for sewer-entrances. No. 1,349,245; Aug. 10; v. 277; p. 269.
Wittich, Henry T., Ashtabula, Ohio. Fastening device for vehicle-tops. No. 1,348,917; Aug. 10; v. 277; p. 204.
Wodraska, Walter J., New York, N. Y. Player-piano action. No. 1,349,481; Aug. 10; v. 277; p. 315.
Wolfe, Michael, Chicago, Ill., assignor, by mesne assignments, to Wolff Coal Saver Company. Fuel-saving apparatus. No. 1,348,918; Aug. 10; v. 277; p. 204.
Wolff, Charles, Chicago, Ill., assignor, by mesne assignments, to Wolff Coal Saver Company. Fuel-saver. No. 1,348,919; Aug. 10; v. 277; p. 204.
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Wolff Coal Saver Company. (See Wolfe, Michael, assignor.)
Wolff Coal Saver Company. (See Wolff, Charles, assignor.)
Wood, William O., Riverside, R. I. Device for conserving fuel. No. 1,349,482; Aug. 10; v. 277; p. 315.
Woodcock, Willard J., Brooklyn, N. Y. Adjustable distributer for internal-combustion engines. No. 1,349,308; Aug. 10; v. 277; p. 282.
Woodruff, George N., Hugo, Okla., assignor of one-half to T. D. Bruce, Paris, Tex. Linting-machine. No. 1,349,179; Aug. 10; v. 277; p. 256.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Woolhouse, Herbert, deceased; Woolhouse, administrator, Norwood, R. I. Hatpin-point protector. No. 1,349,309; Aug. 10; v. 277; p. 282.
Woolhouse, Walter, administrator. (See Woolhouse, Herbert.)
Wray, Leonard E., Minneapolis, Minn. Grain-spout mechanism. No. 1,349,354; Aug. 10; v. 277; p. 291.
Wright, Walter, New York, N. Y., assignor, by mesne assignments, to Underwood Computing Machine Company. Combined typewriting and computing machine. No. 1,349,246; Aug. 10; v. 277; p. 269.
Wright, Walter, New York, N. Y., assignor, by mesne assignments, to Underwood Computing Machine Company. Combined typewriting and computing machine. No. 1,349,247; Aug. 10; v. 277; p. 270.
Wright, Winthrop R. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)
Yanik, John, Coplay, Pa. Ice-creeper. No. 1,349,542; Aug. 10; v. 277; p. 327.
Yeakel, George P., Norristown, Pa. Shears. No. 1,349,180; Aug. 10; v. 277; p. 256.
Yokel, Frank, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lamp-fixture. No. 1,349,483; Aug. 10; v. 277; p. 316.
Yokel, Frank, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Oil-heater. No. 1,349,484; Aug. 10; v. 277; p. 316.
Yokel, Frank, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lighting-fixture. No. 1,349,485; Aug. 10; v. 277; p. 316.
Young, John H., Bartlesville, Okla. Ax. No. 1,348,920; Aug. 10; v. 277; p. 205.
Young, Patrick J., Philadelphia, Pa. Support. No. 1,349,181; Aug. 10; v. 277; p. 256.
Youngquist, Erik J., Chicago, Ill. Propeller. No. 1,349,403; Aug. 10; v. 277; p. 300.
Zahnow, Herman, Balfour, N. D. Windmill. No. 1,349,182; Aug. 10; v. 277; p. 256.
Zarger, Boyd U. (See Lancit, L. A., and Zarger.)
Zeh, Edmund W., Newark, N. J. Power-press. No. 1,349,033; Aug. 10; v. 277; p. 227.
Zeiner-Henriksen, Hans T., Christiania, Norway. Adjustable compass-dial. No. 1,349,455; Aug. 10; v. 277; p. 310.
Zera, Piotr, Schenectady, N. Y. Cigar-piercer. No. 1,349,248; Aug. 10; v. 277; p. 270.
Zink, James L., Indianapolis, Ind. Arch-support. No. 1,349,355; Aug. 10; v. 277; p. 291.
Zion, Isidor, Ridgefield, N. J. Toy-device. No. 1,348,921; Aug. 10; v. 277; p. 205.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Anderson, John F., San Francisco, Calif. Automobile direction and stop signal. No. 56,048; Aug. 10; v. 277; p. 344.
Becherer, George, St. Louis, Mo. Heel-plate. No. 55,971; Aug. 10; v. 277; p. 330.
Belott, Patsy, Clarksburg, W. Va. Clock-case. No. 55,972; Aug. 10; v. 277; p. 330.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Jules H. (See Mertz, Otto L., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plug-cluster. No. 55,973; Aug. 10; v. 277; p. 330.
Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Speedometer face-plate. No. 55,974; Aug. 10; v. 277; p. 330.
Bisbing, Charles F. (See Weinberg, I. H., and Bisbing.)
Bowman, David W. (See Hinegardner, F. G., and Bowman.)
Boyce, Cecil M., Westcliff-on-Sea, Essex, England. Air-pump-nozzle connection. No. 55,975; Aug. 10; v. 277; p. 330.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Motion-picture camera or the like. No. 55,976; Aug. 10; v. 277; p. 330.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Supporting-frame for motion-picture machines. No. 55,977; Aug. 10; v. 277; p. 331.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Camera-case. No. 55,978; Aug. 10; v. 277; p. 331.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Magazine for motion-picture machines. No. 55,979; Aug. 10; v. 277; p. 331.
Champion Ignition Company. (See Berge, Joseph, assignor.)
Chesnutt, John L., assignor to The Service Caster & Truck Company, Kansas City, Mo. Swivel-caster. No. 55,980; Aug. 10; v. 277; p. 331.
Cleveland Candle Company, The. (See Moyer, George A., assignor.)
Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Bracket-oval. No. 56,049; Aug. 10; v. 277; p. 344.
Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Lighting-fixture oval plate. No. 56,050; Aug. 10; v. 277; p. 344.
Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Lighting-fixture shower-plate. No. 56,051; Aug. 10; v. 277; p. 344.
Cole, George F., assignor of three-eighths to J. G. McCall, Oakland, Calif. Ornamental figure for radiator-caps of automobiles. No. 55,981; Aug. 10; v. 277; p. 331.
Compania Nacional de Perfumeria. (See Dunnock, John L., assignor.)
Conneaut Metal Works. (See Lumley, Wilfrid, assignor.)
Copeland, Adolph. (See Thomsen, Max, assignor.)
Corson, Lance S., Colorado Springs, Colo. Pennant. No. 56,070; Aug. 10; v. 277; p. 347.
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Wall-plate for lighting-fixtures. No. 56,052; Aug. 10; v. 277; p. 344.
Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Handle for a spoon, fork, or similar article. Nos. 55,982–3; Aug. 10; v. 277; p. 332.
Dell, Albert. (See Dell, William R., assignor.)
Dell, William R., assignor of one-half to A. Dell, Philadelphia, Pa. Can-opener. No. 55,984; Aug. 10; v. 277; p. 332.
De Richelieu, William E., and A. D. Wagner, Philadelphia, Pa. Label for poison-bottles. No. 55,985; Aug. 10; v. 277; p. 332.
De Vries, Herman E., and C. C. Kusterer, Grand Rapids, Mich. Furniture-leg. No. 56,053; Aug. 10; v. 277; p. 344.
Diamond Match Company, The. (See Traute, Henry C., assignor.)
Di Carlo, Donato, Philadelphia, Pa. Sound-conducting device for talking-machines. No. 55,986; Aug. 10; v. 277; p. 332.
Dlacich, Andrew, Columbus, Ohio. Pick. No. 56,054; Aug. 10; v. 277; p. 345.
Dominick & Haff. (See Crowell, Gilbert L., Jr., assignor.)
Duersten, William E., New Castle, Pa. Non-skid tire. No. 55,987; Aug. 10; v. 277; p. 332.
Dunnock, John L., Baltimore, Md., assignor to Compania Nacional de Perfumeria, Habana, Cuba. Bottle. No. 55,988; Aug. 10; v. 277; p. 333.
Eaglesfield, Frederick R., Niles, Mich., assignor to Kawneer Manufacturing Company, Niles, Mich., Automobile-bumper. No. 56,055; Aug. 10; v. 277; p. 345.
Elmquist, Charles L., St. Paul, Minn. Talking-machine cabinet. No. 55,989; Aug. 10; v. 277; p. 333.
Faultless Rubber Company, The. (See Kaupman, Frederick, Jr., assignor.)
Findlay, Robert, Manufacturing Co. (See Kostszewski, Stephen, assignor.)
Flanders, A. H., Company. (See Flanders, Alice H., assignor.)
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 55,990–7; Aug. 10; v. 277; pp. 333–5.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 56,056–8; Aug. 10; v. 277; p. 345.
Flannery, Martin A., Boston, Mass., assignor to The Will & Baumer Company, Syracuse, N. Y. Votive-stand. No. 56,059; Aug. 10; v. 277; p. 345.
Fleming, Cordelia D., administratrix. (See Fleming, Thomas, C., assignor.)
Fleming, Thomas C., deceased; Cordelia D. Fleming, administratrix, Vancouver, British Columbia, Canada. Combined cabinet and refrigerator. No. 55,998; Aug. 10; v. 277; p. 335.
Franklin, Charles B., assignor to Hendee Manufacturing Co., Springfield, Mass. Motorcycle-frame. No. 55,999; Aug. 10; v. 277; p. 335.
Frederick, Samuel B., Detroit, Mich. Rubber heel. No. 56,000; Aug. 10; v. 277; p. 335.
French, Eli M., Chicago, Ill. Egg-testing appliance. No. 56,060; Aug. 10; v. 277; p. 346.
French, Ira L., assignor to The Mantle Lamp Company of America, Chicago, Ill. Heat-insulated receptacle. No. 56,061; Aug. 10; v. 277; p. 346.
Fuld, William, Baltimore, Md. Movable member of a talking-board. No. 56,001; Aug. 10; v. 277; p. 335.
Garbell, Max, Chicago, Ill. Frame for typewriting-machines. No. 56,002; Aug. 10; v. 277; p. 335.
General Electric Company. (See Gosling, Joseph W., assignor.)
Gilfillan Bros. Smelting & Refining Company. (See Howard, Earl H., assignor.)
Gillam, Ephraim, Columbus, Ohio. Toy wheelbarrow. No. 56,003; Aug. 10; v. 277; p. 336.
Goldsmith Publishing Company, The. (See Vanderkamp, John, assignor.)
Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company, Band for a lamp-globe. No. 56,062; Aug. 10; v. 277; p. 346.
Griffith, Benjamin M., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Toy magazine-gun. No. 56,063; Aug. 10; v. 277; p. 346.
Harpur, James J., Pittsburgh, Pa. Pen-holding attachment for ink-bottles. No. 56,064; Aug. 10; v. 277; p. 346.
Hendee Manufacturing Co. (See Franklin, Charles B., assignor.)
Hinegardner, Francis G., and D. W. Bowman, Toledo, Iowa. Sleigh-knee. No. 56,004; Aug. 10; v. 277; p. 336.
Hinger, John A., Detroit, Mich. Radiator. No. 56,065; Aug. 10; v. 277; p. 346.
Hubbell, Harvey, Incorporated. (See Newton, William J., assignor.)
Howard, Earl H., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif. Spot light. No. 56,066; Aug. 10; v. 277; p. 347.
Jaszewski, Maryan, Bethlehem, Pa. Curtain-pole holder. No. 56,005; Aug. 10; v. 277; p. 336.
Kaupmann, Frederick, Jr., Brooklyn, N. Y., assignor to The Faultless Rubber Company, Ashland, Ohio. Doll. No. 56,067; Aug. 10; v. 277; p. 347.
Kawneer Manufacturing Company. (See Eaglesfield, Frederick R., assignor.)
Kenner, William, Seattle, Wash. Automobile vase-holder. No. 56,006; Aug. 10; v. 277; p. 336.
Kit-Chin-Kit Corporation. (See Lickert, John H., assignor.)
Knaak, George A., Milwaukee, Wis. Controller. No. 56,007; Aug. 10; v. 277; p. 336.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Spindle for lighting-fixtures. No. 56,068; Aug. 10; v. 277; p. 347.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Body for lighting-fixtures. No. 56,069; Aug. 10; v. 277; p. 347.
Kuhlmann, Wesley W., Woodcliff-on-Hudson, N. J. Automobilist's hand-signal. No. 56,008; Aug. 10; v. 277; p. 336.
Kusterer, Carl C. (See De Vries, H. E., and Kusterer.)
La Fayette Motors Company. (See White, D'Orsay, assignor.)
Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Base for a stand of an electric heater. No. 56,009; Aug. 10; v. 277; p. 337.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Combination cleaver, perforator, and ice-pick. No. 56,010; Aug. 10; v. 277; p. 337.

Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Household knife. No. 56,011; Aug. 10; v. 277; p. 337.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Bread-knife. No. 56,012; Aug. 10; v. 277; p. 337.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Arcing-knife. No. 56,013; Aug. 10; v. 277; p. 337.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. No. 56,071; Aug. 10, v. 277; p. 347.
Loeb, William. (See Weiner, M., and Loeb.)
Loring, Helene V. A., Chicago, Ill. Playing-card. No. 56,072; Aug. 10; v. 277; p. 338.
Lumley, Wilfrid, assignor to Conneaut Metal Works, Conneaut, Ohio. Lamp. No. 56,014; Aug. 10; v. 277; p. 338.
McCall, Joseph G. (See Cole, George F., assignor.)
McKeon, Neal J., Oakland, Calif. Manhole-cover. No. 56,015; Aug. 10, v. 277; p. 338.
Madison, William M., Cleveland, Ohio. Advertising and toy balloon. No. 56,078; Aug. 10; v. 277; p. 348.
Mantle Lamp Company of America, The. (See French, Ira L., assignor.)
Mathieu, Frederick W., assignor to Mitchell Vance Co., Inc., New York, N. Y. Globe for lighting-fixtures. No. 56,074; Aug. 10; v. 277; p. 348.
Mathieu, Frederick W., assignor to Mitchell Vance Co., Inc., New York, N. Y. Holder for a lighting-fixture. No. 56,075; Aug. 10; v. 277; p. 348.
Mecky, A., Company. (See Ledig, Richard G., assignor.)
Mertz, Otto L., assignor to J. H. Benjamin, Chicago, Ill. Package-tie. Nos. 56,016–18; Aug. 10; v. 277; p. 338.
Miller, Abraham, New York, N. Y. Arm for lighting-fixtures. No. 56,076; Aug. 10; v. 277; p. 348.
Miller, Samuel, New York, N. Y. Arm for lighting-fixtures. Nos. 56,077–8; Aug. 10; v. 277; p. 348.
Mitchell Vance Co. (See Mathieu, Frederick W., assignor.)
Montgomery, Donn H., Denver, Colo. Automobile. Nos. 56,019–20; Aug. 10; v. 277; p. 338.
Morris, Edgar L., St. Louis, Mo., assignor to United States Sanitary Specialties Corporation, Chicago, Ill. Liquid-soap dispenser. No. 56,079; Aug. 10; v. 277; p. 349.
Moyer, George A., Syracuse, assignor to The Cleveland Candle Company, Cleveland, N. Y. Candle. No. 56,021; Aug. 10; v. 277; p. 339.
Murray, James G. (See Sawders, F. P., and Murray.)
Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Toggle switch-plate. No. 56,022; Aug. 10; v. 277; p. 339.
Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Double toggle switch-plate. No. 56,023; Aug. 10; v. 277; p. 339.
Nielsen, Marius, Greenville, Ohio. Pin. No. 56,024; Aug. 10; v. 277; p. 339.
Nowacki, Stanley T., Marlin, Tex. Mirror. No. 56,025; Aug. 10; v. 277; p. 339.
P-A-T-S Manufacturing Company. (See Will, Victor R., assignor.)
Pearson, Sigrid L. M., Chicago, Ill. Phonograph-casing. No. 56,026; Aug. 10; v. 277; p. 339.
Peterson, Maurice, New York, N. Y. Game-board. No. 56,080; Aug. 10; v. 277; p. 349.
Pittsburgh Lamp, Brass & Glass Company. (See Griffith, Benjamin M., assignor.)
Polasky, Wladyslaw, Detroit, Mich. Jewelry-box. No. 56,027; Aug. 10; v. 277; p. 340.
Price, Grace, Mount Airy, Va. Combined butter ladle and print. No. 56,028; Aug. 10; v. 277; p. 340.
Quigg, James L., assignor to C. F. Sauer Company, Richmond, Va. Bottle or similar article. No. 56,029; Aug. 10; v. 277; p. 340.
Rees, Frank W., assignor to Sees-All Manufacturing Company, Seattle, Wash. Rear-sight mirrow for motor-vehicles. No. 56,030; Aug. 10; v. 277; p. 340.
Reliance Metal Spinning & Stamping Co. (See Cohn, Harry, assignor.)
Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
Robinson, Grosvenor P., Summit, N. J. Lighting-fixture. No. 56,081; Aug. 10; v. 277; p. 349.
Rogers, Nathaniel B., Danbury, Conn. Lighting-fixture. No. 56,031; Aug. 10; v. 277; p. 340.
Rososczuk, Frank, Albany, N. Y. Sadiron-handle. No. 56,032; Aug. 10; v. 277; p. 341.
Sauer, C. F., Company. (See Quigg, James L., assignor.)
Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Combination spring-hanger and radius-rod bracket. No. 56,033; Aug. 10; v. 277; p. 341.
Sees-All Manufacturing Company. (See Rees, Frank W., assignor.)
Service Caster & Truck Company, The. (See Chesnutt, John L., assignor.)
Silent Drama Syndicate, a trusteeship. (See Brown, Lloyd, assignor.)
Smith, James H., assignor to Smith-Junior Co., Inc., Rochester, N. Y. Duplex container. No. 56,082; Aug. 10; v. 277; p. 349.
Smith-Junior Co. (See Smith, James H., assignor.)
Snyder, Ida M., Louisville, Ky. Shoe-heel protector. No. 56,034; Aug. 10; v. 277; p. 341.
Steger & Sons Piano Manufacturing Company. (See Steger, Ferdinand L., assignor.)
Steger, Ferdinand L., assignor to Steger & Sons Piano Manufacturing Company, Steger, Ill. Cover for a phonograph-case. No. 56,035; Aug. 10; v. 277; p. 341.
Sweeny, Jennie H., Union, S. C. Medal or badge. No. 56,083; Aug. 10; v. 277; p. 349.
Takeuchi, Masayoshi, Seattle, Wash. Infant's bath-cot. No. 56,036; Aug. 10; v. 277; p. 341.
Thomsen, Max, assignor to A. Copeland, Chicago, Ill. Oil-cloth-display stand. No. 56,084; Aug. 10; v. 277; p. 350.
Tilton, Perley G., Boston, Mass. Cap-cover. No. 56,037; Aug. 10; v. 277; p. 341.
Traute, Henry C., Fairhaven, N. J., assignor to The Diamond Match Company, Chicago, Ill. Vending-machine case. No. 56,088; Aug. 10; v. 277; p. 342.
Traute, Henry C., Fairhaven, N. J., assignor to The Diamond Match Company, Chicago, Ill. Combined match-holder and ash-receptacle. No. 56,039; Aug. 10; v. 277; p. 342.
United States Sanitary Specialties Corporation. (See Morris, Edgar L., assignor.)
Utter, Bror A., Chicago, Ill. Casket-bar bracket or lug. Nos. 56,040–1; Aug. 10; v. 277; p. 342.
Vanderkamp, John, assignor to The Goldsmith Publishing Company, Cleveland, Ohio. Finger-rest and pointer for a game. No. 56,085; Aug. 10; v. 277; p. 350.
Wagner, Aurea D. (See De Richelieu, W. E., and Wagner.)
Warner Brothers Company, The. (See Warner, De Ver H., assignor.)
Warner, De Ver H., assignor to The Warner Brothers Company, Bridgeport, Conn. Hose-supporting loop. No. 56,042; Aug. 10; v. 277; p. 343.
Waugh, Coulton, New York, N. Y. Textile fabric for decorative purposes. No. 56,086; Aug. 10; v. 277; p. 350.
Weinberg, Isaac H., and C. F. Bisbing, New York, N. Y. Parasol or umbrella. No. 56,043; Aug. 10; v. 277; p. 343.
Weiner, Morris, and W. Loeb, New York, N. Y. Fingering. Nos. 56,087–92; Aug. 10; v. 277; pp. 350–1.
Wheeler, Wellington B., El Segundo, Calif. Bill-board arch. No. 56,044; Aug. 10; v. 277; p. 343.
White, D'Orsay M., Indianapolis, Ind., assignor to La Fayette Motors Company. Instrument-dial. No. 56,045; Aug. 10; v. 277; p. 343.
Wildman Rubber Company, The. (See Wildman, William W., assignor.)
Wildman, William W., assignor to The Wildman Rubber Company, Detroit, Mich. Tire. No. 56,046; Aug. 10; v. 277; p. 343.
Will & Baumer Company, The. (See Flannery, Martin A., assignor.)
Will, Victor R., assignor to P-A-T-S Manufacturing Company, Lodi, Calif. Automobile direction-signal. No. 56,047; Aug. 10; v. 277; p. 343.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. B. Manufacturing Company, Providence, R. I. Jewelry, not including watches. No. 133,889; Aug. 10; v. 277; p. 385
Abrasive Company, Philadelphia, Pa. Grinding and polishing wheels. No. 133,888; Aug. 10; v. 277; p. 385.
Albany Grocery Co., Albany, Ga. Self-rising wheat-flour. No. 133,890; Aug. 10; v. 277; p. 385.
Amendt Milling Company, Monroe and Trenton, Mich., and Delta, Ohio. Wheat-flour. No. 133,891; Aug. 10; v. 277; p. 385.
American Hard Rubber Company, Hempstead and New York, N. Y. Electrical apparatus, machines, and supplies. No. 133,892; Aug. 10; v. 277; p. 385.
American Nut Butter Company, Providence, R. I. Oleomargarin. No. 133,893; Aug. 10; v. 277; p. 385.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. Nos. 133,894–6; Aug. 10; v. 277; p. 385.
Andrews, Frederick E., Pelham Manor, N. Y. Preparation for polishing metal and glass. No. 133,897; Aug. 10; v. 277; p. 385.
Arnheim, Benjamin H., Pittsburgh, Pa. Metal-polish. No. 133,898; Aug. 10; v. 277; p. 385.
Ashland Milling Co., The, Ashland, Ky. Self-rising flour. No. 133,899; Aug. 10; v. 277; p. 385.
Associated Dairymen of Calif., Inc., San Francisco, Calif. Dairy products. No. 133,900; Aug. 10; v. 277; p. 385.
Austin-Nichols & Company, Inc., New York, N. Y. Coffee. No. 133,901; Aug. 10; v. 277; p. 385.
Baer, Joseph E., New York, N. Y. Hosiery and children's rompers. No. 133,902; Aug. 10; v. 277; p. 385.
Baldwin Company, The, Cincinnati, Ohio. Phonographs. No. 133,903; Aug. 10; v. 277; p. 385.
Barlow, John T., Philadelphia, Pa. Photo-engravers' inks. No. 133,904; Aug. 10; v. 277; p. 385.
Basket Stores Company, Omaha, Nebr. Foods and ingredients of foods. Nos. 133,905–6; Aug. 10; v. 277; p. 385.
Becker, Edw. M., Company, The, Cleveland, Ohio. Marshmallow candy. No. 133,907; Aug. 10; v. 277; p. 385.
Bickmore Co., The, Oldtown, Me. Accounts-books. No. 133,909; Aug. 10; v. 277; p. 385.
Bisceglia Brothers Co., San Jose, Calif. Canned fruits. No. 133,910; Aug. 10; v. 277; p. 385.
Block, Louis A., New Orleans, La. Cleaning liquid adapted for general use. No. 133,911; Aug. 10; v. 277; p. 385.
Boott Mills, Lowell, Mass. Cotton piece goods. No. 133,912; Aug. 10; v. 277; p. 385.
Bowman, Allan K., Wilkinsburg, Pa. Cleaning compound—namely, wall-paper cleaner. No. 133,913; Aug. 10; v. 277; p. 385.
Braun, Emil, New York, N. Y. Doughnuts and cakes. No. 133,914; Aug. 10; v. 277; p. 385.
Brown Company, Portland, Me. Paper products, and particularly bond or other writing or print paper. No. 133,915; Aug. 10; v. 277; p. 385.
Browne, Waldo R., Wyoming, N. Y. Article of confectionery consisting of honey nougat. No. 133,916; Aug. 10; v. 277; p. 385.
Buchanan, Walter D., Greenville, Ohio. Candy. No. 133,917; Aug. 10; v. 277; p. 386.
Buehler, Herbert J., Newark, N. J. Prepared pudding. No. 133,918; Aug. 10; v. 277; p. 386.
Bulova-Henshel Co., New York, N. Y. Artificial pearls. No. 133,919; Aug. 10; v. 277; p. 386.
Bump Confectionery Co., Anna, Ill. Non-alcoholic beverages and syrups for making same. No. 133,920; Aug. 10; v. 277; p. 386.
Burger, Iwan, Inc., New York, N. Y. Herring, mackerel, salmon, tuna, &c. Nos. 133,921–2; Aug. 10; v. 277; p. 386.
Cairo Food Products Company, Cairo, Ill. Ice-cream, butter, candy, &c. No. 133,924; Aug. 10; v. 277; p. 386.
Calhoun, George E., Amsterdam, N. Y. Dressing for brake-linings and the like. No. 133,923; Aug. 10; v. 277; p. 386.
California Chocolate Shop, Inc., Los Angeles, Calif. Confectionery—namely, chocolate bonbons. Nos. 133,925–6; Aug. 10; v. 277; p. 386.
Cant-Slip Co., Rochester, N. Y. Preparation used for application to a typewriter-platen to prevent slipping. No. 133,927; Aug. 10; v. 277; p. 386.
Carney, Alexander R., Fresno, Calif. Fresh plums. No. 133,928; Aug. 10; v. 277; p. 386.
Central States Orchards Co., Kansas City, Mo. Apples in their natural state. No. 133,929; Aug. 10; v. 277; p. 386.
Chapman & Smith Company, Chicago, Ill. Foods. No. 133,930; Aug. 10; v. 277; p. 386.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 133,932; Aug. 10; v. 277; p. 386.
Clarke Bros.' Stores, Scranton, Pa. Peaunts in the shell and peanut-butter. No. 133,934; Aug. 10; v. 277; p. 386.
China, Japan & South America Trading Co., Ltd., San Francisco, Calif. Canned fruits and vegetables. No. 133,933; Aug. 10; v. 277; p. 386.
Clarotype Company, The, Charleston, S. C., and New York, N. Y. Chemical cleansing compound for typewriters and other metal type, &c. No. 133,935; Aug. 10; v. 277; p. 386.
Comstock, C. & F. W., Port Jefferson Station, N. Y. Cake and cookies. No. 133,936; Aug. 10; v. 277; p. 386.
Condrell, Paul K., Kenmore, N. Y. Pure milk-chocolate bars containing roasted almonds and cocoanuts. No. 133,937; Aug. 10; v. 277; p. 386.
Corn Belt Packing Company, Dubuque, Iowa. Kettle-rendered lard. No. 133,938; Aug. 10; v. 277; p. 386.
Cox, Warren R., Cleveland, Ohio. Electrical apparatus, machines, and supplies. Nos. 133,939–40; Aug. 10; v. 277; p. 386.
Crane, Clarence A., Cleveland, Ohio. Candy. Nos. 133,941–2; Aug. 10; v. 277; p. 386.
Crown Ribbon and Carbon Mfg. Co., Rochester, N. Y. Carbon-paper and typewriter-ribbons. No. 133,945; Aug. 10; v. 277; p. 386.
Dawson, Clarence O., Blair, Nebr. Canned vegetables. Nos. 133,946–9; Aug. 10; v. 277; p. 386.
Decker, Jacob E., & Sons, Mason City, Iowa. Hams, bacon, and picnic hams. No. 133,950; Aug. 10; v. 277; p. 386.
Delmonico, Charles C., New York, N. Y. Candy. No. 133,952; Aug. 10; v. 277; p. 387.
De Montmorency, Beresford B., Chicago, Ill. Teas. No. 133,908; Aug. 10; v. 277; p. 385.
De Nordiske Fabriker D.-No-Fa, Aktieselskab, Christiania, Norway. Refined and unrefined fats. No. 133,951; Aug. 10; v. 277; p. 387.
Diamond State Fiber Company, Elsmere, Del., and Bridgeport, Pa. Electrical insulation and insulating objects. No. 133,953; Aug. 10; v. 277; p. 387.
Dietetic Cellulose Company, Chicago, Ill. Flours and meals employed for making dietetic foods. No. 133,954; Aug. 10; v. 277; p. 387.
Dodge, A., & Son Corp., Beverly, Mass. Wheat-flour, bran, middlings, &c. No. 133,955; Aug. 10; v. 277; p. 387.
Dolph, John C., Company, Newark, N. J. Insulating material. No. 133,956; Aug. 10; v. 277; p. 387.
Dulle, G. H., Milling Co., Jefferson City, Mo. Flour made from wheat. No. 133,957; Aug. 10; v. 277; p. 387.
Educational Supply Company, The, Painesville, Ohio. School-report cards, class-record books, excuse-blanks, and school-registers. No. 133,958; Aug. 10; v. 277; p. 387.
Eflorose Sugar Co., The, Cincinnati, Ohio. Malt syrup for food purposes. No. 133,959; Aug. 10; v. 277; p. 387.
Fairchild Bros. & Foster, New York, N. Y. Food product to be used as a food for infants, &c. No. 133,960; Aug. 10; v. 277; p. 387.
Faire Bros. & Co., Leicester, England. Elastic webs. No. 133,961; Aug. 10; v. 277; p. 387.
Flex-Tic Supply Company, The, Harris, Iowa. Auction-sale outfits. No. 133,963; Aug. 10; v. 277; p. 387.
Foamite Firefoam Company, New York, N. Y. Hand-operated portable and stationary fire-extinguishers. No. 133,964; Aug. 10; v. 277; p. 387.
Fortune Products Company, Chicago, Ill. Spaghetti, macaroni, vermicelli, and egg-noodles. Nos. 133,965–6; Aug. 10; v. 277; p. 387.
Frampton Chemical Co., Seattle, Wash. Soaps, cleansers, and metal-polishes. No. 133,967; Aug. 10; v. 277; p. 387.
Friedman & Moss, Inc., New York, N. Y. Plain and printed broad silks in pieces. No. 133,968; Aug. 10; v. 277; p. 387.
G. & H. Chemical Co., Inc., New York, N. Y. Metal-polish. No. 133,931; Aug. 10; v. 277; p. 386.
Galveston Typewriter Exchange, Inc., Galveston, Tex. Typewriter-ribbons and carbon-paper. No. 133,969; Aug. 10; v. 277; p. 387.
Gambrill, C. A., Manufacturing Company, Baltimore, Md. Cereal products and prepared cake-flour. No. 133,970; Aug. 10; v. 277; p. 387.
General Motors Export Company, New York, N. Y. Printed monthly publication. No. 133,971; Aug. 10; v. 277; p. 387.
General Paper and Cordage Company, Pittsburgh, Pa. Wrapping-paper. No. 133,972; Aug. 10; v. 277; p. 387.
Gilman, A. S., Printing Company, The, Cleveland, Ohio. Blank forms. No. 133,973; Aug. 10; v. 277; p. 387.

Glidden, Joseph F., Lakewood, Ohio. Basic oil for paint and varnish building. No. 133,974; Aug. 10; v. 277; p. 387.

Goldsmith Brothers Smelting and Refining Company, Chicago, Ill. Pearls. No. 133,975; Aug. 10; v. 277; p. 387.

Goodrich, B. F., Company, The, New York, N. Y. Battery-jars made of rubber. Nos. 133,976–7; Aug. 10; v. 277; p. 387.

Gordon & Dilworth, Inc., New York, N. Y. Preserved fruits, jellies, jams, &c. No. 133,978; Aug. 10; v. 277; p. 387.

Gosselin Trading Corporation, New York, N. Y. Ink in tablet form. No. 133,979; Aug. 10; v. 277; p. 387.

Gould, Wells & Blackburn Co., Madison, Wis. Foods. No. 133,980; Aug. 10; v. 277; p. 387.

Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Canned fruit. No. 133,981; Aug. 10; v. 277; p. 387.

Grain Soaps Corporation, Dover, Del., and Jersey City, N. J. Soaps and soap powders. No. 133,982; Aug. 10; v. 277; p. 388.

Granger & Company, Buffalo, N. Y. Mince-meat. No. 133,983; Aug. 10; v. 277; p. 388.

Gumpert, S. & Co., Brooklyn, N. Y. Food-powder to be used in the place of whites of eggs. No. 133,984; Aug. 10; v. 277; p. 388.

Halladay & Son, Battle Creek, Mich. Catsup, vinegar, peas, coffee, &c. No. 133,992; Aug. 10; v. 277; p. 388.

Hamburger, D. Ellis, Brooklyn, N. Y. Candy. No. 133,985; Aug. 10; v. 277; p. 388.

Hanson & Van Winkle Company, The, Newark, N. J. Preparation for polishing metals. Nos. 133,986–7; Aug. 10; v. 277; p. 388.

Harrell, Arlando T., Chicago, Ill. Candy. No. 133,988; Aug. 10; v. 277; p. 388.

Hawley and Hoops, New York, N. Y. Candies. No. 133,989; Aug. 10; v. 277; p. 388.

Herbert Packing Co., Inc., San Jose, Calif. Canned fruits. No. 133,991; Aug. 10; v. 277; p. 388.

Herbert Packing Co., Inc., San Jose, Calif. Canned fruits and vegetables. No. 133,990; Aug. 10; v. 277; p. 388.

Hollingshead, W. R., Co., Binghamton, N. Y. Stove and shoe polishes, stove and shoe polishing outfits, and shoe-cleaner. No. 133,993; Aug. 10; v. 277; p. 388.

Horlick's Food Company, Racine, Wis. Preparations for the modification of milk. No. 133,994; Aug. 10; v. 277; p. 388.

Hunter Mfg. & Com. Co., New York, N. Y. Cotton piece goods. No. 133,995; Aug. 10; v. 277; p. 388.

International Sugar Feed Co., Minneapolis, Minn. Calf-meal. No. 133,998; Aug. 10; v. 277; p. 388.

International Sugar Feed Co., Minneapolis, Minn. Dairy-feed. No. 133,996; Aug. 10; v. 277; p. 388.

International Sugar Feed Co., Minneapolis, Minn. Pig-meal. No. 133,997; Aug. 10; v. 277; p. 388.

Interstate Cotton Oil Refining Company, Sherman, Tex. Shortening for cooking and oil for cooking and salad purposes. No. 133,999; Aug. 10; v. 277; p. 388.

Jones, D. Stuart, Washington, D. C. Coffee and tea. No. 134,003; Aug. 10; v. 277; p. 388.

Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 134,001; Aug. 10; v. 277; p. 388.

Johnson Educator Food Co., Boston, Mass. Peanut-butter and cereal coffee. No. 134,000; Aug. 10; v. 277; p. 388.

Johnson, F. N., Maple Syrup Company, The, Bellefontaine, Ohio. Cane and maple syrup. No. 134,002; Aug. 10; v. 277; p. 388.

Kellerman, Isidor, New York, N. Y. Furniture and automobile-body polishes. No. 134,004; Aug. 10; v. 277; p. 388.

Kelley-Robinson Corporation, The, assignor to The So-Lite Company, Incorporated, New York, N. Y. Doughnuts. No. 134,005; Aug. 10; v. 277; p. 388.

Kellogg Products Inc., Buffalo, N. Y. Oleomargarin. No. 134,006; Aug. 10; v. 277; p. 388.

Keystone Fruit Products Company, Cincinnati, Ohio. Non-alcoholic, non-cereal, maltless syrup, for making soda-water beverages. No. 134,007; Aug. 10; v. 277; p. 388.

Kohler, Peter Cailler, Swiss Chocolates Co., Inc., New York, N. Y. Chocolates. No. 134,098; Aug. 10; v. 277; p. 391.

Kraft, J. L., & Bros. Co., Chicago, Ill., and New York, N. Y. Cheese. No. 134,008; Aug. 10; v. 277; p. 388.

Lemon, Ernest N., Lynchburg, Ohio. Eggs for hatching and poultry. No. 134,009; Aug. 10; v. 274; p. 388.

Leonard, Andrew J., West Branch, Mich. Hand-washing compounds. No. 134,010; Aug. 10; v. 277; p. 388.

Leota Food Products Co., Oak Park, Ill. Food. No. 134,011; Aug. 10; v. 277; p. 388.

Little Goddess Dress Co. Inc., The, New York, N. Y. Children's dresses. No. 134,012; Aug. 10; v. 277; p. 388.

Longino & Collins, New Orleans, La. Butter. No. 134,013; Aug. 10; v. 277; p. 388.

Lorraine Watch Co. Inc., New York, N. Y. Watches. No. 134,014; Aug. 10; v. 277; p. 388.

Lower California Packing Plants, Los Angeles, Calif. Canned fish. No. 134,015; Aug. 10; v. 277; p. 389.

Luthy Storage Battery Company, Newark, N. J. Storage batteries. No. 134,016; Aug. 10; v. 277; p. 389.

Mackenzie, Robert F., Co., The, Cleveland, Ohio. Candy. Nos. 134,018–20; Aug. 10; v. 277; p. 389.

Malchow, Frederick, Brooklyn, N. Y. Embossing composition. No. 134,021; Aug. 10; v. 277; p. 389.

Morrison Bros. Mills, Jefferson, Okla. Highest patent flour. No. 134,033; Aug. 10; v. 277; p. 389.

Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 134,022; Aug. 10; v. 277; p. 389.

Maurer, Oscar E., San Francisco, Calif. Food-syrup for baking purposes. No. 134,023; Aug. 10; v. 277; p. 389.

Maurice, R., and Company, Limited, Willesden, London, England. Enriched pastry-flour. No. 134,024; Aug. 10; v. 277; p. 389.

Mayer, Oscar F., & Bro., Chicago, Ill. Foods. No. 134,025; Aug. 10; v. 277; p. 389.

McKenna, John S., Fresno, Calif. Liniment for wrenches, sprains, bruises, &c., and general tonic for horses and cows, &c. No. 134,017; Aug. 10; v. 277; p. 389.

Medici Society—American Branch,—Inc., Boston, Mass. Prints and publications. No. 134,027; Aug. 10; v. 277; p. 389.

Menist, J., Company, Inc., New York, N. Y. Canned vegetables and fruits. No. 134,027; Aug. 10; v. 277; p. 389.

Mexican Products Corporation, Nogales, Ariz. Foods. No. 134,028; Aug. 10; v. 277; p. 389.

Michigan Lubricator Company, Detroit, Mich. Monthly publication. No. 134,029; Aug. 10; v. 277; p. 389.

Miller, Willard A., Cambridge, Mass. Candy. No. 134,030; Aug. 10; v. 277; p. 389.

Mills Brothers Company, The, Cincinnati, Ohio. Powder to be used as a washing preparation. No. 134,031; Aug. 10; v. 277; p. 389.

Moller, Conrad G., New Canaan township, Fairfield county, Conn. Soap. No. 134,032; Aug. 10; v. 277; p. 389.

Morse, A. G., Co., Chicago, Ill. Candy. No. 134,034; Aug. 10; v. 277; p. 389.

Moskowitz, Joseph, Brooklyn, N. Y. Wheat-flour. No. 134,035; Aug. 10; v. 277; p. 389.

Multiple Electric Products Company, Inc., New York, N. Y. Electrical apparatus, machines, and supplies. No. 134,036; Aug. 10; v. 277; p. 389.

Musher & Company, Incorporated, Baltimore, Md. Olive-oil. No. 134,037; Aug. 10; v. 277; p. 389.

Nagano, Shinsaku, Chicago, Ill. Sauces for seasoning foods. No. 134,038; Aug. 10; v. 277; p. 389.

Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 134,039; Aug. 10; v. 277; p. 389.

National Association of Employment Managers, Orange, N. J. Bulletins in form of pamphlets. No. 134,040; Aug. 10; v. 277; p. 389.

Neptune Fisheries, Ocean Grove, N. J. Sea foods, such as dried boneless codfish. No. 133,962; Aug. 10; v. 277; p. 387.

New Hampton Mills, New York, N. Y. Textile fabric of a silk and cotton mixture in the piece. No. 134,041; Aug. 10; v. 277; p. 389.

New Products Company, Pittsburgh, Pa. Gummed and ungummed paper and cloth strips or tapes in rolls and tape-moistening machines. No. 134,042; Aug. 10; v. 277; p. 389.

News Syndicate Co., Inc., New York, N. Y. Daily publication. No. 134,043; Aug. 10; v. 277; p. 389.

Norma Chocolate Company, Brooklyn, N. Y. Chocolate. No. 134,044; Aug. 10; v. 277; p. 389.

Northern Ohio Butterine Company, The, Ashland, Ohio. Oleomargarin. No. 134,045; Aug. 10; v. 277; p. 389.

Nulomoline Company, The, New York, N. Y. Cereal and sugar syrups for table purposes. No. 134,046; Aug. 10; v. 277; p. 389.

Nut-Grove Butter Company, Providence, R. I. Oleomargarin. No. 134,047; Aug. 10; v. 277; p. 389.

Omaha Flour Mills Co., Omaha, Nebr. Wheat-flour. No. 134,048; Aug. 10; v. 277; p. 389.

Omaha Flour Mills Co., Omaha, Nebr. Wheat-flour. No. 134,049; Aug. 10; v. 277; p. 389.

Oneida Community, Limited, Oneida, N. Y. Silver-plated flat-ware and tableware. No. 134,050; Aug. 10; v. 277; p. 390.

Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild. Nos. 134,052–8; Aug. 10; v. 277; p. 390.

Oversea Export Co. Ltd., The, Christiania, Norway. Sardines. No. 134,051; Aug. 10; v. 277; p. 390.

Package Confectionery Company, Boston, Mass. Candy. No. 134,059; Aug. 10; v. 277; p. 390.

Paist, F. M., Company, Philadelphia, Pa. Nut-caramels. No. 134,060; Aug. 10; v. 277; p. 390.

Palmer Candy Co., Sioux City, Iowa. Candy. Nos. 134,061–2; Aug. 10; v. 277; p. 390.

Patrick, F. E., Young Co., Richmond, Va. Hams, bacon, and lard. No. 134,063; Aug. 10; v. 277; p. 390.

Peska, Rudolph J., Chicago, Ill. Washing preparation. No. 134,064; Aug. 10; v. 277; p. 390.

Pierce-Arrow Motor Car Company, Buffalo, N. Y. Monthly magazine. No. 134,065; Aug. 10; v. 277; p. 390.

Placentia Mutual Orange Association, Placentia, Calif. Citrus fruits—namely, oranges. No. 134,066; Aug. 10; v. 277; p. 390.

Popular Canning Co, Inc., Los Angeles, Calif. Canned peaches, pears, and tomatoes. No. 134,067; Aug. 10; v. 277; p. 390.

Purepakt Products Company, Washington, Ind. Foods. No. 134,068; Aug. 10; v. 277; p. 390.

Ralston Purina Company, St. Louis, Mo. Stock feed. No. 134,069; Aug. 10; v. 277; p. 390.

Reed, Chas. H., New York, N. Y. Cotton piece goods. No. 134,070; Aug. 10; v. 277; p. 390.

Reed, James W., Imperial, Calif. Citrus fruits—namely, grapefruit. No. 134,071; Aug. 10; v. 277; p. 390.

Reeve, H., Angel & Co., Inc., New York, N. Y. Filter-paper. No. 134,072; Aug. 10; v. 277; p. 390.

Roessel, Louis, & Co., New York, N. Y. Light-weight woven silk and cotton fabrics for millinery purposes. No. 134,073; Aug. 10; v. 277; p. 390.

Rogers, S. A., Co., Newark, N. J. Scratch food for poultry, baby-chick mash, &c. No. 134,074; Aug. 10; v. 277; p. 390.

Rosenberg Bros., St. Louis, Mo. Woolen cloth for tailoring purposes. No. 134,075; Aug. 10; v. 277; p. 390.

Royall Coffee Company, The, Corsicana, Tex. Coffee and tea. No. 134,076; Aug. 10; v. 277; p. 390.

Ruch-Drompp Grocery Co., Logansport, Ind. Bread. No. 134,077; Aug. 10; v. 277; p. 390.

Rupert, A., Company, Inc., Portland, Oreg. Fruit preserves, jam, and canned salmon. No. 134,078; Aug. 10; v. 277; p. 390.

Seandrett, Leslie A., Sydney, New South Wales, Australia. Rabbit-meat. No. 134,079; Aug. 10; v. 277; p. 390.

Schreiber Milling & Grain Co., St. Joseph, Mo. Hog and cattle feed. No. 134,081; Aug. 10; v. 277; p. 390.

Schuler Chocolate Factory, Inc., Winona, Minn. Candy. No. 134,082; Aug. 10; v. 277; p. 390.

Scott, Lester C., San Diego, Calif. Lubricating-oils for guns, locks, bicycles, &c. No. 134,080; Aug. 10; v. 277; p. 390.

Seggerman Bros. Inc., New York, N. Y. Chocolate packed boxes and packages. No. 134,084; Aug. 10; v. 277; p. 391.

Seggerman Bros. Inc., New York, N. Y. Dried fruits packed in boxes and barrels. No. 134,083; Aug. 10; v. 277; p. 391.

Shaw Family, Inc., The, San Jose, Calif. Canned fruits, jams, preserves. Nos. 134,085–6; Aug. 10; v. 277; p. 391.

Sheehan, Edgar M., San Francisco, Calif. Fresh vegetables—namely, asparagus—and fresh fruits—namely, pears. No. 134,087; Aug. 10; v. 277; p. 391.

Shoninger, B., Co., New Haven, Conn. Pianos. No. 134,088; Aug. 10; v. 277; p. 391.

Sinclair Refining Company, Chicago, Ill. Gasolenes. No. 134,089; Aug. 10; v. 277; p. 391.

Sioux Candy Company, Sioux City, Iowa. Confectionery. No. 134,090; Aug. 10; v. 277; p. 391.

Smith & Nichols, New York, N. Y., and Boston, Mass. Electrical insulating waxes. No. 134,091; Aug. 10; v. 277; p. 391.

So-Lite Company, The. (See The Kelley-Robinson Corporation, assignor.)

Stern Milling Company, Inc., Milwaukee, Wis. Rye-flour. No. 134,092; Aug. 10; v. 277; p. 391.

Stewart, Francis G., Chicago, Ill. Polish for aluminum. No. 134,093; Aug. 10; v. 277; p. 391.

Stewart, Francis G., Chicago, Ill. Polish for silver, gold, and nickel. No. 134,094; Aug. 10; v. 277; p. 391.

Stilling-Andersen, B., Inc., New York, N. Y. Butter. No. 134,095; Aug. 10; v. 277; p. 391.

Strype, Fred C., New York, N. Y. Wrapping and printing papers. No. 134,096; Aug. 10; v. 277; p. 391.

Superior Builders Supply Co., Little Rock, Ark. Roll composition roofing and shingles. No. 134,097; Aug. 10; v. 277; p. 391.

Tanner-Gross, W. P., & Company, New York, N. Y. Wheat and rye flour. Nos. 134,099–102; Aug. 10; v. 277; p. 391.

Thompson, John R., Co., Chicago, Ill. Bread. No. 134,103; Aug. 10; v. 277; p. 391.

Traub Manufacturing Company, The, Detroit, Mich. Jewelry. No. 134,105; Aug. 10; v. 277; p. 391.

Traver, F. C., Paper Co., The, Chicago, Ill. Paper and paper products. No. 134,104; Aug. 10; v. 277; p. 391.

Tropics Corporation, The, New York, N. Y. Sugar. No. 134,106; Aug. 10; v. 277; p. 391.

Tubular Woven Fabric Company, Pawtucket, R. I. Electric portable cables. No. 134,107; Aug. 10; v. 277; p. 391.

Tubular Woven Fabric Company, Pawtucket, R. I. Insulated-wire conductors. No. 134,108; Aug. 10; v. 277; p. 391.

Uncas Manufacturing Company, Providence, R. I. Finger-rings, pins, and bracelets. No. 134,110; Aug. 10; v. 275; p. 391.

United Drug and Candy Manufacturing Company, The, Cleveland, Ohio. Chocolate candy. No. 134,114; Aug. 10; v. 277; p. 391.

United Drug Company, Boston, Mass. Infants' foods, condensed milk, sugar of milk, and malted milk. No. 134,113; Aug. 10; v. 277; p. 391.

United Drug Company, Boston, Mass. Liquid chemical preparation for polishing silverware. No. 134,111; Aug. 10; v. 277; p. 391.

United Drug Company, Boston, Mass. Toilet sets containing puff, comb, brush, nail-file, scissors, &c. No. 134,112; Aug. 10; v. 277; p. 391.

United Wholesale Grocery Co., Los Angeles, Calif. Foods. No. 134,115; Aug. 10; v. 277; p. 391.

Urbany, Urban, San Diego, Calif. Chilli food composed of meat, pepper, and flour. No. 134,109; Aug. 10; v. 277; p. 391.

Vermont Maple Syrup Company, Inc., Essex Junction, Vt. Blended cane and maple table-syrup. No. 134,116; Aug. 10; v. 277; p. 391.

Vitanola Talking Machine Co., Chicago, Ill. Talking-machines. No. 134,117; Aug. 10; v. 277; p. 392.

Ward Baking Company, New York, N. Y. Bread. Nos. 134,118–10; Aug. 10; v. 277; p. 392.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 133,943; Aug. 10; v. 277; p. 386.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 133,944; Aug. 10; v. 277; p. 386.

Waterproofing Manufacturing Co., The, Scranton, Pa. Auto-top dye and dressing in the nature of a preservative. No. 134,120; Aug. 10; v. 277; p. 392.

Weber, Jacob H., Brooklyn, N. Y. Talking-machines. No. 134,121; Aug. 10; v. 277; p. 392.

Weil, Maximilian, New York, N. Y. Devices for transmitting communication into transmitter of telephone sets. No. 134,122; Aug. 10; v. 277; p. 392.

West Coast Soap Co., Oakland, Calif. Laundry soap. No. 134,123; Aug. 10; v. 277; p. 392.

Western Feed Manufacturers Inc., Chicago, Ill. Horse feed. Nos. 134,125–6; Aug. 10; v. 277; p. 392.

Western Feed Manufacturers Inc., Chicago, Ill. Rabbit feed. No. 134,127; Aug. 10; v. 277; p. 392.

Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. No. 134,124; Aug. 10; v. 277; p. 392.

Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. No. 134,128; Aug. 10; v. 277; p. 392.

Western Feed Manufacturers, Inc., Chicago, Ill. Stock feed. No. 134,129; Aug. 10; v. 277; p. 392.

White, Bert L., Company, Chicago, Ill. Advertising-cards. No. 134,131; Aug. 10; v. 277; p. 392.

White, Bert L., Company, Chicago, Ill. Advertising-folders. Nos. 134,132–3; Aug. 10; v. 277; p. 392.

Whitaker Paper Company, The, Cincinnati, Ohio. Cover-paper. No. 134,130; Aug. 10; v. 277; p. 392.

Whiting Paper Company, Holyoke, Mass. Bristol-board. No. 134,134; Aug. 10; v. 277; p. 392.

Whiting Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 134,135; Aug. 10; v. 277; p. 392.

Whittemore Brothers Corporation, Cambridge, Mass. Dressing to be used on leather and leather articles. No. 134,136; Aug. 10; v. 277; p. 392.

Wichita Mill & Elevator Company, Wichita Falls, Tex. Wheat-flour. Nos. 134,137–8; Aug. 10; v. 277; p. 392.

Wilmarth and Rice, Scranton, Pa. Wheat-flour. No. 134,140; Aug. 10; v. 277; p. 392.

Williams, R. C., & Company, New York, N. Y. Salad-dressing. No. 134,139; Aug. 10; v. 277; p. 392.

Witt, Florence J., Columbus, Ohio. Paste for shoe-dressing. No. 134,141; Aug. 10; v. 277; p. 392.

Woodill, Alfred L., Riverside, Calif. Fresh oranges. Nos. 134,143–4; Aug. 10; v. 277; p. 392.

Woodtite Laboratories, The, Modesto, Calif. Compounded auto-wash used as a cleanser. No. 134,145; Aug. 10; v. 277; p. 392.

Woldert Peanut Products Co., Tyler, Tex. Peanut-butter. No. 134,142; Aug. 10; v. 277; p. 392.

Wynne Paper Co., The, New York, N. Y. Writing-tablets, writing-papers, and correspondence-envelops. No. 134,146; Aug. 10; v. 277; p. 392.

Zimmern, Henry, & Company, Inc., New York, N. Y. Watch and clock parts. No. 134,147; Aug. 10; v. 277; p. 392.

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Bear Brothers Co., Chicago, Ill. "Bears Fluff Powder." (For Fluff-Powder.) No. 21,957; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Lime Drops." (For Candy.) No. 21,958; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Lemon Drops." (For Candy.) No. 21,959; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Cinnamons." (For Candies.) No. 21,960; Aug. 10; v. 277; p. 393.

Brown, Alfred J., Seed Company, Grand Rapids, Mich. "Radish." (For Radish-Seeds.) No. 21,961; Aug. 10; v. 277; p. 393.

Caramella, Santo, Ridgewood, N. J. "S C Ready Sauce." (For a Gravy.) No. 21,963; Aug. 10; v. 277; p. 393.

Pan-America Supply Company, Inc., New York, N. Y. "Pasco." (For Greases.) No. 21,962; Aug. 10; v. 277; p. 393.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Wintergreens." (For Candy.) No. 5,281; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Lemon Drops." (For Candy.) No. 5,282; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Lime Drops." (For Candy.) No. 5,283; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Cinnamons." (For Candies.) No. 5,284; Aug. 10; v. 277; p. 393.

Harter Candy Co., The, Toledo, Ohio. "Sweetheart Chocolates." (For Candy.) No. 5,285; Aug. 10; v. 277; p. 393.

Nucoa Butter Company, The, New York, N. Y. "Nucoa Churn Girl." (For Substitute for Butter.) No. 5,286; Aug. 10; v. 277; p. 393.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Abbott Laboratories, Chicago, Ill. Antiseptic preparation. No. 122,673; Aug. 10; v. 277; p. 357.

Adler, S. Henry, New York, N. Y. Men's suits and overcoats. No. 132,766; Aug. 10; v. 277; p. 377.

Agra Company, Detroit, Mich. Talcums, face-powder, perfumes, &c. No. 128,036; Aug. 10; v. 277; p. 362.

Altman, B., & Co., New York, N. Y. Soap. No. 128,581; Aug. 10; v. 277; p. 362.

American Electric Company, Chicago, Ill. Electric motors. No. 133,649; Aug. 10; v. 277; p. 381.

American Electrical Heater Co., Detroit, Mich. Electrical heating appliances and parts. No. 132,377; Aug. 10; v. 277; p. 375.

American Steel Foundries, Chicago, Ill. Side frames, couplers, draft-gears, &c. No. 127,791; Aug. 10; v. 277; p. 361.

American Trading Company, New York, N. Y. Cotton piece goods. No. 129,295; Aug. 10; v. 277; p. 365.

Arrow Lumber Company, The, Parkersburg, W. Va. Lumber and timber. No. 131,767; Aug. 10; v. 277; p. 372.

Asbestos Wood Mfg. Corp., New York, N. Y. Asbestos lumber, wood, wall-board, shingles, &c. No. 130,796; Aug. 10; v. 277; p. 369.

Atkins, E. C., & Company, Indianapolis, Ind. Circular saws for wood, metal, &c., band-saws, corn-knives, &c. No. 128,995; Aug. 10; v. 277; p. 364.

Atlantic Refining Company, The, Philadelphia, Pa. Black, compound, crude, &c., oils, greases, &c. No. 130,125; Aug. 10; v. 277; p. 367.

Atlas Portland Cement Company, The, Northampton, Pa., and New York, N. Y. Light-weight material used in making light-weight concrete. No. 116,673; Aug. 10; v. 277; p. 354.

Automatic Carbonic Machine Company, Peoria, Ill. Refrigerating-machines. No. 122,507; Aug. 10; v. 277; p. 357.

Automotive Products Corporation, New York, N. Y. Automobiles. No. 132,285; Aug. 10; v. 277; p. 374.

Baker, R. & L., Company, The, Cleveland, Ohio. Automobiles. Nos. 102,066–7; Aug. 10; v. 277; p. 353.

Bakers Supply Company, Columbus, Ga. Flavored pudding-dessert mixture. No. 132,972; Aug. 10; v. 277; p. 378.

Barco Manufacturing Company, Chicago, Ill. Gaskets, molded, asbestos composition, and metal-faced gaskets, &c. No. 120,516; Aug. 10; v. 277; p. 355.

Bartlett, Francis A., Stamford, Conn. Arboreal healing-cement, flooring, and insulating materials for heat or cold. No. 132,841; Aug. 10; v. 277; p. 377.

Bay Side Canning Co., Alviso, Calif. Canned fruits and vegetables. No. 128,820; Aug. 10; v. 277; p. 363.

Beatty Machine & Mfg. Co., Hammond, Ind. Power steel punches, shears, presses, &c. No. 127,752; Aug. 10; v. 277; p. 361.

Beaver Company, The, Buffalo, N. Y. Prepared sheet-roofing, tiles, shingles, &c. No. 132,075; Aug. 10; v. 277; p. 374.

Beaver Company, The, Buffalo, N. Y. Roofing—namely, roofing shingles and cements. No. 132,423; Aug. 10; v. 277; p. 375.

Bech, Van Sicien & Co. Inc., San Francisco, Calif. Wheat-flour. No. 130,014; Aug. 10; v. 277; p. 367.

Bell's United Asbestos Co. Ltd., London, England. Cement-concrete blocks and slabs, cement-asbestos plates, &c. No. 131,895; Aug. 10; v. 277; p. 373.

Belpre Co-Operative Equity Union, Belpre, Kans. Wheat-flour. No. 132,911; Aug. 10; v. 277; p. 378.

Bernstein, Louis, New York, N. Y. Phonograph-records. No. 127,957; Aug. 10; v. 277; p. 362.

Beyerle, J. J., Mfg. Co., New York, N. Y. Dress-shields. Nos. 132,203–4; Aug. 10; v. 277; p. 376.

Blometer, Joel, Hobarton, Iowa. Spark-plugs. No. 128,998; Aug. 10; v. 277; p. 364.

Bludwine Company, Athens, Ga. Syrup to be used in the making of non-alcoholic beverages, &c. No. 133,078; Aug. 10; v. 277; p. 379.

Bosch Brewing Company, Lake Linden, Mich. Non-intoxicating malt beverage. No. 113,115; Aug. 10; v. 277; p. 354.

Brockway-Smith Corporation, The, Boston, Mass. Paint in liquid or paste form. No. 122,329; Aug. 10; v. 277; p. 356.

Broder, Harry, New York, N. Y. Cotton textile fabrics. No. 132,772; Aug. 10; v. 277; p. 377.

Briggs, Z. T., Photographic Supply Co., The, Kansas City, Mo. Photographic prints. No. 132,229; Aug. 10; v. 277; p. 374.

Brokman, Leon E., New York, N. Y. Receptacles for holding strip-tickets. No. 132,379; Aug. 10; v. 277; p. 375.

Brown, George A., Stevens Point, Wis. Hens' nests. No. 125,074; Aug. 10; v. 277; p. 359.

Card, J. M., Lumber Co., Chattanooga, Tenn. Rough and dressed lumber. No. 133,252; Aug. 10; v. 277; p. 379.

Caravel Company Inc., New York, N. Y. Hand sewing-needles, toilet-pins, shoe-buckles, &c. No. 134,116; Aug. 10; v. 277; p. 382.

Carter Carbureter Company, St. Louis, Mo. Carbureters. No. 133,516; Aug. 10; v. 277; p. 381.

Carter Bros. Mattress Company, Chattanooga, Tenn. Mattresses. No. 130,021; Aug. 10; v. 277; p. 367.

Casamer, Maude M., Louisville, Ky. Liquid roofing compound. No. 131,817; Aug. 10; v. 277; p. 373.

Cement Products Company, Wilmington, N. C. Cement sewage-disposal tanks. No. 124,068; Aug. 10; v. 277; p. 358.

Champlin, Ransom R., Candia, N. H. Chemical carbon-cleaner. No. 122,630; Aug. 10; v. 277; p. 357.

Charles William Stores, Inc., The, Brooklyn, N. Y. Rubber tires for automobiles and other vehicles. No. 130,878; Aug. 10; v. 277; p. 369.

Chicago Belting Company, Chicago, Ill. Leather belting. No. 131,942; Aug. 10; v. 277; p. 373.

Chicago Flexible Shaft Company, Chicago, Ill. Electric flatirons. No. 133,955; Aug. 10; v. 277; p. 382.

Clark, James, Jr., Electric Co., Louisville, Ky. Electric apparatus. No. 131,854; Aug. 10; v. 277; p. 373.

Cleroline Chemical Company, Inc., New York, N. Y. Metal-polish. No. 133,183; Aug. 10; v. 277; p. 379.

Colorado Vanadium Corporation, Sawpit, Colo., and New York, N. Y. Ferrovanadium alloys. No. 132,720; Aug. 10; v. 277; p. 377.

Condurier, Fructus & Descher, Lyon, France, and New York, N. Y. Silk piece goods. No. 134,110; Aug. 10; v. 277; p. 382.

Cowpens Mills, Cowpens, S. C. Sheetings. No. 134,347; Aug. 10; v. 277; p. 382.

Craddock-Terry Company, Lynchburg, Va. Men's and boys' shoes of leather, &c. No. 133,446; Aug. 10; v. 277; p. 380.

Crawford, McGregor & Canby Company, The, Dayton, Ohio. Golf-clubs and golf-balls. No. 130,520; Aug. 10; v. 277; p. 369.

Curtainless Shower Company, The, New York, N. Y. Curtainless shower-baths. Nos. 133,297–8; Aug. 10; v. 277; p. 380.

Curtainless Shower Company, The, New York, N. Y. Curtainless shower-baths. No. 133,300; Aug. 10; v. 277; p. 380.

Damcy, Bessie, New York, N. Y. Pajamas and kimonos. No. 133,405; Aug. 10; v. 277; p. 380.

Darling, Miller & Co., New York, N. Y. Patches for repairing automobile, motorcycle, and bicycle tubes, &c. No. 132,086; Aug. 10; v. 277; p. 374.

Dawson Metals, Inc., New York, N. Y. Hardened copper as a metal or alloy. No. 127,903; Aug. 10; v. 277; p. 361.

Declauriers Column Mould Co., New York, N. Y. Steel molds for concrete. No. 132,778; Aug. 10; v. 277; p. 377.

D'Erraud, Louis, Los Angeles, Calif. Automobile-windshield cleaners. No. 127,904; Aug. 10; v. 277; p. 361.

Dominant Products Co., New York, N. Y. Liquid metal-polish. No. 133,184; Aug. 10; v. 27; p. 379.

Dry Goods Alliance Inc., New York, N. Y. Snap-fasteners, hooks, and eyes, safety-pins, &c. No. 134,537; Aug. 10; v. 277; p. 383.

Durand Company, Boston, Mass. Candy. No. 131,700; Aug. 10; v. 277; p. 372.

Dwork, Joseph H., Newark, N. J. Rubber tires and inner tubes. No. 130,323; Aug. 10; v. 277; p. 368.

Eagle-Picher Lead Co., The, Cincinnati, Ohio. Storage batteries and storage-battery parts. No. 131,470; Aug. 10; v. 277; p. 372.

Economic Manufacturing Company, Paterson, N. J. Hatbands, skirt and dress beltings, pump-bows, &c. No. 134,812; Aug. 10; v. 277; p. 384.

Egerton, Clifford W., Brooklyn, N. Y. Hose-supporters. No. 130,755; Aug. 10; v. 277; p. 369.

Excelsior Underwear Co., Inc., New York, N. Y. Athletic underwear. No. 133,461; Aug. 10; v. 277; p. 380.

Fabrecka Belting Company, Boston, Mass. Belting composed of laminæ of fabric and a flexible or elastic composition. No. 131,022; Aug. 10; v. 277; p. 370.

Farnsworth, Hoyt Co., Boston, Mass. Shoe-cloth in the piece. No. 133,905; Aug. 10; v. 277; p. 382.

Federal Doll Manufacturing Co., Inc., New York, N. Y. Dolls. No. 130,959; Aug. 10; v. 277; p. 370.

Fidelity Chocolate Company, Boston, Mass. Chocolate candies. No. 104,071; Aug. 10; v. 277; p. 353.

Fielshel, Stella S., New York, N. Y. Negligées, semidress-gowns, wrappers, and kimonos. No. 132,301; Aug. 10; v. 277; p. 375.
Flexible Steel Lacing Company, Chicago, Ill. Flexible or hinged belt-fasteners. No. 131,419; Aug. 10; v. 277; p. 371.
Ford Roofing Products Company, Incorporated, Chicago, Ill. Prepared asphalt roofing. Nos. 129,880–1; Aug. 10; v. 277; p. 366.
Ford Roofing Products Company, Inc., Chicago, Ill., and St. Louis, Mo. Prepared asphalt roofing. Nos. 129,883–4; Aug. 10; v. 277; p. 367.
Ford Roofing Products Company, Inc., Chicago, Ill., and St. Louis, Mo. Shingles and prepared asphalt roofing. No. 129,882; Aug. 10; v. 277; p. 366.
Formby Petrinite Corporation, Jacksonville, Fla. Hardening and strengthening materials for use with tile, brick, &c. No. 127,585; Aug. 10; v. 277; p. 361.
Fraas, Aug. E., New York, N. Y. Dental, medical, and surgical appliances. No. 123,116; Aug. 10; v. 277-p. 357.
Fritch, Harry H., Chicago, Ill. Polish for pianos, furniture, woodwork, &c. No. 129,711; Aug. 10; v. 277; p. 366.
Gerlach, A. F., Mfg. Co., Milwaukee, Wis. Aprons. No. 132,350; Aug. 10; v. 277; p. 375.
Gill Manufacturing Company, Chicago, Ill. Piston-rings. No. 127,545; Aug. 10; v. 277; p. 360.
Ginsberg, B., & Bro., New York, N. Y. Ladies' hair goods, such as ear-muffs, bobs, side waves, &c. No. 134,539; Aug. 10; v. 277; p. 383.
Gitterman, Henry, & Co., New York, N. Y. Imitation leather. No. 130,413; Aug. 10; v. 277; p. 368.
Goldsmith & Lerner, Inc., New York, N. Y. Dress, negligée, and work shirts, pajamas, collars, &c. No. 124,438; Aug. 10; v. 277; p. 358.
Goulds Fruit & Vegetable Growers Assn., Goulds, Fla. Fresh citrus fruits and vegetables. No. 127,911; Aug. 10; v. 277; p. 361.
Graham, George W., New York, N. Y. Chemical carbon-removing compound. No. 130,789; Aug. 10; v. 277; p. 369.
Grebe, A. H., & Co. Inc., Richmond Hill, N. Y. Wireless-telegraph apparatus. No. 132,352; Aug. 10; v. 277; p. 375.
Grosset & Dunlap, Inc., New York, N. Y. Series of books published periodically. No. 134,469; Aug. 10; v. 277; p. 383.
Guillaume Limited, Redditch and Alcester, England. Needles for hand-sewing and toilet-pins. No. 131,262; Aug. 10; v. 277; p. 370.
Heinlein, Charles, Sr., Cincinnati, Ohio. Trunks, traveling-bags, and suitcases. No. 131,390; Aug. 10; v. 277; p. 371.
Herman Neckwear Manufacturing Company, Dallas, Tex. Neckties, cravats, neckscarfs, ladies' shirtwaists, &c. No. 126,322; Aug. 10; v. 277; p. 359.
Hero Shirt Manufacturing Company, New York, N. Y. Men's negligée and dress shirts. No. 120,825; Aug. 10; v. 277; p. 356.
Herrburger, Joseph, Paris, France. Pianos, automatic and piano players, &c. No. 128,305; Aug. 10; v. 277; p. 362.
Herschet-Roth Manufacturing Company, Minneapolis, Minn. Canvas belting. No. 126,768; Aug. 10; v. 277; p. 359.
Hieber, John G. F., Spokane, Wash. Non-alcoholic non-intoxicating, non-cereal, maltless beverage. No. 131,703; Aug. 10; v. 277; p. 372.
House, George V., New York, N. Y. Calendars. No. 134,511; Aug. 10; v. 277; p. 383.
Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. No. 126,516; Aug. 10; v. 277; p. 359.
Hugo, John, Mfg. Co., The, New Haven, Conn. Electrical testing devices. No. 131,427; Aug. 10; v. 277; p. 372.
Hyco Fuel Products Corporation, New York, N. Y. Fuel-oils. No. 122,356; Aug. 10; v. 277; p. 356.
Illinois Valley Sash & Door Company, Peru, Ill. Inside and outside finishes, sash, doors, &c. Nos. 129,550–1; Aug. 10; v. 277; p. 365.
Industrial Paint Company, Fair Oaks borough, Pa. Dry, paste, and ready-mixed paints. No. 129,894; Aug. 10; v. 277; p. 367.
International Mailing Tube and Wrapper Co., Brooklyn, N. Y. Mailing tubes, bags, boxes, folders, &c. No. 105,258; Aug. 10; v. 277; p. 354.
J. T. Tractor Company, The, Cleveland, Ohio. Tractors and parts thereof. No. 132,576; Aug. 10; v. 277; p. 376.
Jobbers Overall Co., Inc., Lynchburg, Va. Overalls for children. No. 133,219; Aug. 10; v. 277; p. 379.
Karak, Solomon, New York, N. Y. Fermented milk. No. 126,805; Aug. 10; v. 277; p. 360.
Katten, Arthur A., Company Inc., New Orleans, La. Boys' overalls, knee-pants, and coats. No. 124,796; Aug. 10; v. 277; p. 359.
Ketcham & McDougall, Inc., Brooklyn, N. Y. Automatic-winding eyeglass or pencil holders. No. 128,688; Aug. 10; v. 277; p. 362.
Kon. Ned. Maatschappij tot Exploitatie van Petroleum bronnen in Ned. Indie, The Hague, Netherlands. Turpentine and turpentine substitutes. No. 104,584; Aug. 10; v. 277; p. 353.
Konski, Herbert D., New York, N. Y., and Atlantic City, N. J. Pajamas, night-robes, blouses, &c. No. 132,014; Aug. 10; v. 277; p. 373.
Lackenbach, Fred I., San Francisco, Calif. Medical periodical publication. No. 134,591; Aug. 10; v. 277; p. 383.
Lang, Edward M., Jersey City, N. J. Burnt coque feathers. No. 130,725; Aug. 10; v. 277; p. 369.
Lauter, Felix, Albany, N. Y. Piano keys and sound-boxes. No. 131,812; Aug. 10; v. 277; p. 373.
Leabarjan Manufacturing Company, Hamilton, Ohio. Music-sheet-perforating machines. No. 125,895; Aug. 10; v. 277; p. 359.
Lebro Mfg. Co., Pittsburgh, Pa. Dyspepsia-tablets, tooth-ache-wax, carbolic salve, &c. No. 126,132; Aug. 10; v. 277; p. 359.
Lemon Pekoe Tea Corporation, The, New York, N. Y. Tea. No. 132,475; Aug. 10; v. 277; p. 375.
Lever Brothers Company, Cambridge, Mass. Soap. No. 119,909; Aug. 10; v. 277; p. 355.
Levy, Clara, New York, N. Y. Gelatinous substance for cleaning and rejuvenating carpets, &c. No. 134,713; Aug. 10; v. 277; p. 384.
Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes, wafers, and crackers or biscuits. No. 121,868; Aug. 10; v. 277; p. 356.
Lukin, Nicholas, New York, N. Y. Laxative. No. 126,817; Aug. 10; v. 277; p. 360.
Luthy Storage Battery Company, Newark, N. J. Storage batteries. No. 134,712; Aug. 10; v. 277; p. 384.
Mackenzie, Robert F., Co., The, Cleveland, Ohio. Candy. No. 132,802; Aug. 10; v. 277; p. 377.
Manhattan Bead Chain Company, New York, N. Y. Pearls. No. 132,606; Aug. 10; v. 277; p. 376.
Marshall, John B., Catonsville, Md. Catamenial bandages. No. 120,426; Aug. 10; v. 277; p. 335.
Marx, Sidney S., San Diego, Calif. Camping-trailers. No. 121,537; Aug. 10; v. 277; p. 356.
Marx, Lizzie P., Mrs., New Orleans, La. Polish used on painted and varnished surfaces. No. 130,605; Aug. 10; v. 277; p. 369.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 129,225; Aug. 10; v. 277; p. 364.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 129,227; Aug. 10; v. 277; p. 364.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 129,229; Aug. 10; v. 277; p. 364.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 129,232; Aug. 10; v. 277; p. 364.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 129,235; Aug. 10; v. 277; p. 364.
McAdam, Charles, Co., Chicago, Ill. Prepared liquid shellacs, lacquers, &c. No. 131,276; Aug. 10; v. 277; p. 371.
McCord Co., The San Francisco, Calif. Daily paper. No. 134,424; Aug. 10; v. 277; p. 383.
Menard, Joseph A., Seattle, Wash. Grinding compound for bearings and machine parts. No. 120,116; Aug. 10; v. 277; p. 335.
Metal Forms Corporation, Milwaukee, Wis. Concrete forms and shaping devices. No. 132,751; Aug. 10; v. 277; p. 377.
Metro Shirt Co., New York, N. Y. Dress, negligée, and work shirts. No. 124,048; Aug. 10; v. 277; p. 358.
Meyer & Stüdeli, S. A., Soleure, Switzerland. Watches, clocks, and parts thereof. Nos. 131,032–4; Aug. 10; v. 277; p. 370.
Migel, J. A., Inc., New York, N. Y. Hairpins. No. 129,180; Aug. 10; v. 277; p. 364.
Migel, J. A. Inc., New York, N. Y. Hairpins. No. 129,184; Aug. 10; v. 277; p. 364.
Miller-Walker Laboratories, Detroit, Mich. Shoe-dressing in the form of a white dry powder. No. 133,222; Aug. 10; v. 277; p. 379.
Mosstwin Company, Boston, Mass. Snap-fasteners. Nos. 118,923–4; Aug. 10; v. 277; p. 355.
Nailcrete Corporation, Forest Hills, N. Y. Sleepers of cementitious material. No. 134,722; Aug. 10; v. 277; p. 384.
National Hair Goods Co., Chicago, Ill. Wigs. No. 133,278; Aug. 10; v. 277; p. 379.
National Ring Traveler Co., Providence, R. I. Buttons for attachment to wearing-apparel. No. 132,478; Aug. 10; v. 277; p. 376.
National Ring Traveler Co., Providence, R. I. Buttons for attachment to wearing-apparel. No. 132,480; Aug. 10; v. 277; p. 376.
New Britain Machine Co., The, New Britain, Conn. Tractors. No. 132,195; Aug. 10; v. 277; p. 374.
Newsom Valve Company, St. Louis, Mo. Dust caps for pneumatic-tire valves. No. 115,293; Aug. 10; v. 277; p. 354.
North American Electric Lamp Company, St. Louis, Mo. Electric lamps. No. 134,427; Aug. 10; v. 277; p. 383.
Oberman, D. M., Manufacutring Company, Jefferson City, Mo. Flannel shirts for outer wear. No. 129,336; Aug. 10; v. 277; p. 365.
Owens, Eva E., Los Angeles, Calif. Hats for women and children, and bootees for infants. No. 123,753; Aug. 10; v. 277; p. 358.
Patterson, Mary A., Amherst, Mass. Bodkins and tape-needles. No. 133,793; Aug. 10; v. 277; p. 382.

Penick & Ford, Ltd. Inc., New Orleans, La. Corn table-syrup. No. 132,555; Aug. 10; v. 277; p. 376.
Piedmont Mfg. Co., Greenville, S. C. Gray sheetings and drills in the piece. No. 133,374; Aug. 10; v. 277; p. 380.
Piel Bros. Inc., East New York, N. Y. Non-alcoholic beverage. Nos. 131,283–4; Aug. 10; v. 277; p. 371.
Pilgrim Clock Company, Inc., New York, N. Y. Watches, clocks, &c. No. 126,775; Aug. 10; v. 277; p. 359.
Pittsburgh Oil Refining Corporation, Baltimore, Md. Manufactured oil. No. 132,024; Aug. 10; v. 277; p. 373.
Powell-McLean Specialty Co., Los Angeles, Calif. Windshields for automobiles. No. 122,496; Aug. 10; v. 277; p. 356.
Prince Macaroni Mfg. Co., Boston, Mass. Macaroni. No. 121,126; Aug. 10; v. 277; p. 356.
Prudential Rubber Company, The, Akron, Ohio. Automobile-tires and inner tubes of rubber for tires. No. 130,289; Aug. 10; v. 277; p. 368.
Rafael Del Castillo & Co., New York, N. Y. Cotton piece goods. No. 130,982; Aug. 10; v. 277; p. 370.
Rafael Del Castillo & Co., New York, N. Y. Cotton piece goods. No. 130,984; Aug. 10; v. 277; p. 370.
Randall, T. A., & Co. Inc., Indianapolis, Ind. Magazines issued monthly. No. 123,863; Aug. 10; v. 277; p. 358.
Rapp & Doolittle, Wichita, Kans. Razors and shears. No. 132,447; Aug. 10; v. 277; p. 375.
Redmanol Chemical Products Co., Chicago, Ill. Electrical appliances. No. 130,061; Aug. 10; v. 277; p. 367.
Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 131,286; Aug. 10; v. 277; p. 371.
Riegler, Julie H., San Antonio, Tex. Candy. No. 132,907; Aug. 10; v. 277; p. 378.
Roberts, Charles D., Pittsburgh, Pa. Metallic pen-points. Nos. 128,741–2; Aug. 10; v. 277; p. 363.
Roe Metal Sandal Company, Milwaukee, Wis. Metal sandals. No. 124,917; Aug. 10; v. 277; p. 359.
Romul Manufacturing Company, Inc., New York, N. Y. Carbureters, mechanical carbon-removers, air-traps, &c. No. 130,431; Aug. 10; v. 277; p. 368.
Root & Company, Chicago, Ill. Phonographs, graphophones, and talking-machines. No. 118,611; Aug. 10; v. 277; p. 355.
Ross, Sydney, Company Inc., The, New York, N. Y. Toilet soap. No. 132,664; Aug. 10; v. 277; p. 377.
Rubin, Barney, Chicago, Ill. Phonographs, talking-machines, and sound-records. No. 133,594; Aug. 10; v. 277; p. 381.
Russell & Co. Inc., Cambridge, Mass. Candy. No. 132,938; Aug. 10; v. 277; p. 378.
Samstag & Hilder Bros., New York, N. Y. Hair-nets. No. 134,277; Aug. 10; v. 277; p. 382.
Schless-Harwood Company, New York, N. Y. Settings for articles of jewelry. No. 133,024; Aug. 10; v. 277; p. 378.
Schroeder, Henry P., St. Louis, Mo. Malt extract. No. 133,503; Aug. 10; v. 277; p. 381.
Scott County Milling Company, The, Sikeston, Mo. Wheat-flour. No. 128,865; Aug. 10; v. 277; p. 363.
Sears, Roebuck & Company, Chicago, Ill. Muslin underwear. No. 129,679; Aug. 10; v. 277; p. 366.
Seligman, Paul L., Leonia, N. J. Outer wash-garments for children. No. 132,027; Aug. 10; v. 277; p. 373.
Sellers, William, & Company Incorporated, Philadelphia, Pa., Injector parts. No. 132,623; Aug. 10; v. 277; p. 376.
Sharp & Dohme, Baltimore, Md. Sedative diuretic compound. No. 127,334; Aug. 10; v. 277; p. 360.
Sharp Spark Plug Company, The, Cleveland, Ohio. Spark-plugs for internal-combustion engines. No. 110,499; Aug. 10; v. 277; p. 354.
Shirtcraft Co. Inc., The, New York, N. Y. Men's dress, negligée, and work shirts. No. 130,920; Aug. 10; v. 277; p. 369.
Silk, Louis A., New York, N. Y. Embroideries and laces in the piece and handkerchiefs. No. 127,401; Aug. 10; v. 277; p. 360.
Simons Manufacturing Company, Chicago, Ill. Paste for cleaning and polishing automobile-bodies and the like. No. 127,783; Aug. 10; v. 277; p. 361.
Sjoquist, Theodore, Chicago, Ill. Sound-intensifier for telephones. No. 125,253; Aug. 10; v. 277; p. 359.
Slonim Brothers, Duluth, Minn. Armbands, garters, and suspenders. No. 124,696; Aug. 10; v. 277; p. 358.
Sloan & Zook, Bradford, Pa. Gasoline, naphtha, kerosene, &c. No. 128,866; Aug. 10; v. 277; p. 363.
Small, L. K., Company, Los Angeles, Calif. Citrus and fresh fruits. No. 132,814; Aug. 10; v. 277; p. 377.
Société La Perle Saskia, Paris, France. Pearls, collars of pearls, and jewels adorned with pearls, &c. No. 130,245; Aug. 10; v. 277; p. 368.
Society, Sons of The Revolution, in the State of California, Los Angeles, Calif. Publications issued quarterly. No. 131,402; Aug. 10; v. 277; p. 371.
Sohmer, Harry J., New York, N. Y. Pianos, phonographs, and talking-machines. No. 132,067; Aug. 10; v. 277; p. 374.
Sonora, Inc., New York, N. Y. Talking-machines, phonographs, graphophones, &c. No. 133,688; Aug. 10; v. 277; p. 381.
Sonora, Inc., New York, N. Y. Talking-machines, phonographs, graphophones, &c. No. 133,692; Aug. 10; v. 277; p. 381.
Sonora, Inc., New York, N. Y. Talking-machines, phonographs, graphophones, &c. Nos. 133,699–700; Aug. 10; v. 277; p. 381.
Sonora, Inc., New York, N. Y. Talking-machines, phonographs, graphophones, &c. Nos. 133,705–6; Aug. 10; v. 277; p. 381.
Sonora, Inc., New York, N. Y. Talking-machines, phonographs, graphophones. No. 133,708; Aug. 10; v. 277; p. 382.
Speicher, Daniel E., Urbana, Ind. Seed-sowers. No. 133,067; Aug. 10; v. 277; p. 378.
Stalfort, John C., & Sons, Baltimore, Md. Leather and canvas shoe dressing and polishes. No. 126,783; Aug. 10; v. 277; p. 360.
Stearns Rubber Products Company, Chicago, Ill. Rubber patches for repairing rubber or fabric articles. No. 127,453; Aug. 10; v. 277; p. 360.
Stevens, Chas. A., & Bros., Chicago, Ill. Corsets. No. 133,232; Aug. 10; v. 277; p. 379.
Stein, Jacob, Sheboygan, Wis. Brooms. No. 130,496; Aug. 10; v. 277; p. 368.
Stivers, George W., New York, N. Y. Novelty wind-operated musical instrument in the nature of a whistle. No. 133,982; Aug. 10; v. 277; p. 382.
Strathmore Paper Company, West Springfield, Mass. Wedding, ledger, photomount, &c., papers, &c. No. 131,507; Aug. 10; v. 277; p. 372.
Strauss Brothers, Baltimore, Md. Sateen piece goods. No. 131,407; Aug. 10; v. 277; p. 371.
Sturm & Scheinberg, New York, N. Y. Garters, armbands, and children's hose-supporters. No. 134,389; Aug. 10; v. 277; p. 382.
Sun Company, Philadelphia, Pa. Cutting and lubricating oils. Nos. 118,808–9; Aug. 10; v. 277; p. 355.
Superior Garment Company, Columbia City, Ind. Children's play-suits. No. 128,714; Aug. 10; v. 277; p. 362.
Sutro Bros. Braid Company, The, New York, N. Y. Braids, cords, shoe-laces, girdles, &c. No. 133,332; Aug. 10; v. 277; p. 380.
Swift and Company, Chicago, Ill. Washing-powder, laundry soap, and soap chips. No. 132,663; Aug. 10; v. 277; p. 376.
Symonds, Frank P., Salem, Mass. Cleaning preparations. No. 134,550; Aug. 10; v. 277; p. 383.
Tamaqua Underwear Company, Tamaqua, Pa. Women's knitted underwear, &c. No. 130,183; Aug. 10; v. 277; p. 368.
Tennessee Furniture Corporation, Chattanooga, Tenn. Combined kitchen-cabinets and refrigerators. No. 127,788; Aug. 10; v. 277; p. 361.
Tennessee Furniture Corporation, Chattanooga, Tenn. Portable serving-tables. No. 130,302; Aug. 10; v. 277; p. 368.
Thane, A. F., & Co., San Francisco, Calif. Kerosene. Nos. 132,573–4; Aug. 10; v. 277; p. 376.
Tiffany & Company, New York, N. Y. Playing cards and chips, cribbage-boards. Nos. 128,234–5; Aug. 10; v. 277; p. 362.
Tillotson, W. E., Manufacturing Company, Pittsfield, Mass. Knitted underwear for adults and children. No. 129,194; Aug. 10; v. 277; p. 364.
Tomlinson, Albert J., Wichita, Kans. Adhesive liquid composition. No. 128,862; Aug. 10; v. 277; p. 363.
Touraine Company, The, Boston, Mass. Candy. No. 131,512; Aug. 10; v. 277; p. 372.
Tripod Paint Co., The, Atlanta, Ga. Flat wall-paint. No. 129,355; Aug. 10; v. 277; p. 365.
Tripod Paint Co., The, Atlanta, Ga. Tinted lead and ready-mixed paints. No. 129,356; Aug. 10; v. 277; p. 365.
Tripod Paint Co., The, Atlanta, Ga. Varnish-stains. No. 129,359; Aug. 10; v. 277; p. 365.
Ulmann, Bernhard, Co., Inc., New York, N. Y. Art-needlework publication. No. 134,679; Aug. 10; v. 277; p. 384.
Ulman Electric Company, The, Boston, Mass. Arc and incandescent electric lamps, &c. No. 128,600; Aug. 10; v. 277; p. 362.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Electric batteries and flash-lights. No. 129,158; Aug. 10; v. 277; p. 364.
Vega Separator Company, The, Fostoria, Ohio. Cream-separators. No. 128,910; Aug. 10; v. 277; p. 363.
Voter, G. H., Inc., Boston, Mass. Plastic roofing compounds. No. 133,507; Aug. 10; v. 277; p. 381.
Waldo Bros., and Bond Company, Boston, Mass. Asphalt roofing. No. 132,905; Aug. 10; v. 277; p. 378.
Waltersdorff, John C., Menges Mills, Pa. Food-flavoring extracts. No. 121,225; Aug. 10; v. 277; p. 356.
Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, &c. No. 132,619; Aug. 10; v. 277; p. 376.
Welte-Mignon Corporation. (See Welte, M., & Sons, assignors.)

(REGISTRATION APPLIED FOR.)

Welte, M., & Sons, Inc., assignor to Welte-Mignon Corporation, New York, N. Y. Self-playing pianos and piano players. No. 109,958; Aug. 10; v. 277; p. 354.

Welte, M., & Sons, Inc., Poughkeepsie and New York, N. Y., assignors to Welte-Mignon Corporation, New York, N. Y. Pianos, automatic and player-pianos, &c. No. 108,763; Aug. 10; v. 277; p. 354.

Wenck & Co., New York, N. Y. Shoe-buttons and buttons for dresses, clothing, &c. No. 133,437; Aug. 10; v. 277; p. 380.

West Indies Importing Co., Inc., New York, N. Y. Food products—viz., turtle meat and bouillon. No. 132,195; Aug. 10; v. 277; p. 379.

Western Canning Company, Oakland, Calif. Canned vegetables and fruits. No. 124,031; Aug. 10; v. 277; p. 358.

Westinghouse Union Battery Co., Swissvale borough, Pa. Secondary batteries. No. 134,928; Aug. 10; v. 277; p. 384.

Westinghouse Union Battery Co., Swissvale borough, Pa. Secondary batteries and connectors therefor. Nos. 134,682–3; Aug. 10; v. 277; p. 384.

White, Harry L., Wheeling, W. Va. Ladies' and misses' suits, skirts, petticoats, &c. No. 128,033; Aug. 10; v. 277; p. 362.

White Stokes Co., Inc., Chicago, Ill. Sweetened material used as a filler and topping in the manufacture of confectionery. No. 132,951; Aug. 10; v. 277; p. 378.

Wiener Bros., New York, N. Y. Ladies' mesh-handbags. No. 134,619; Aug. 10; v. 277; p. 383.

Williams, George, Company, New York, N. Y. Embroidery edging, rick-rack braid, silk elastic, &c. No. 134,498; Aug. 10; v. 277; p. 383.

Windsor Print Works, North Adams, Mass., and New York, N. Y. Plain white, dyed, or printed cotton-dress and underwear piece goods. No. 132,214; Aug. 10; v. 277; p. 374.

Windsor Print Works, North Adams, Mass., and New York, N. Y. Plain white, dyed, or printed cotton dress and underwear piece goods. No. 132,216; Aug. 10; v. 277; p. 374.

Wool Novelty Co., Inc., New York, N. Y. Hand-knitting yarn. No. 129,436; Aug. 10; v. 277; p. 365.

Ybarra, Hijos de Seville, Spain. Common soap. No. 113,045; Aug. 10; v. 277; p. 354.

Zenithern Company, Newark, N. J. Materials used in construction-work to resist heat. No. 130,562; Aug. 10; v. 277; p. 369.

Ziegler, Guy, Lincoln, Nebr. Storage batteries of the lead-acid type, &c. No. 131,849; Aug. 10; v. 277; p. 373.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 10TH DAY OF AUGUST, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accounting and typewriting machines, Sheet-feeding means for. S. S. Dixon. No. 1,348,984; Aug. 10; v. 277; p. 217.

Acid, Manufacture of concentrated nitric. P. A. Guye. No. 1,348,873; Aug. 10; v. 277; p. 196.

Adding-machine. C. M. Fitch. No. 1,349,194; Aug. 10; v. 277; p. 259.

Adjustable gate, Vertically-. O. Veeder. No. 1,349,173; Aug. 10; v. 277; p. 254.

Advertising-bench, Automatic. G. G. Diaz. No. 1,348,852; Aug. 10; v. 277; p. 191.

Advertising-display device. F. W. Sargent. No. 1,348,899; Aug. 10; v. 277; p. 200.

Aeronautical apparatus. C. C. Haddock. No. 1,349,336; Aug. 10; v. 277; p. 287.

Aeroplane. I. Covino. No. 1,348,983; Aug. 10; v. 277; p. 217.

Aeroplane. J. Ebert. No. 1,348,934; Aug. 10; v. 277; p. 207.

Aeroplane. G. N. Kasematis and B. A. Stamatelopoulos. No. 1,349,460; Aug. 10; v. 277; p. 311.

Aeroplane construction. H. G. Hooper. No. 1,348,996; Aug. 10; v. 277; p. 219.

Aeroplane-fuselage. G. Niedbala. No. 1,349,526; Aug. 10; v. 277; p. 325.

Aeroplane, Military. O. A. Ross. No. 1,349,105; Aug. 10; v. 277; p. 241.

Aeroplane, Multiple. G. Caproni. No. 1,349,116; Aug. 10; v. 277; p. 243.

Aeroplanes, Landing device for. A. C. Warren. No. 1,349,242; Aug. 10; v. 277; p. 268.

Agitating device. P. G. Campbell. No. 1,349,492; Aug. 10; v. 277; p. 318.

Air-brush. B. E. Holton. No. 1,349,154; Aug. 10; v. 277; p. 251.

Air-heating attachment. G. D. Kennedy. No. 1,349,461; Aug. 10; v. 277; p. 311.

Air power-drive, Compressed-. G. C. Alstad. No. 1,349,036; Aug. 10; v. 277; p. 227.

Air-supplying-valve attachment. M. C. Kirkpatrick. No. 1,349,210; Aug. 10; v. 277; p. 262.

Alarm: *See*—
Fire-alarm.

Alkaline deposits, Recovering constituents of value from natural. C. Sundstrom. No. 1,349,445; Aug. 10; v. 277; p. 308.

Ammonia contents of coal-gas, Process of and apparatus for recovering the. B. Torrey, Jr. No. 1,349,393; Aug. 10; v. 277; p. 298.

Anatomical developing and adjusting machine. D. W. Riesland. No. 1,348,896; Aug. 10; v. 277; p. 200.

Anhydrid, Manufacture of nitric. P. A. Guye. No. 1,348,874; Aug. 10; v. 277; p. 196.

Appliance. P. Crowder. No. 1,349,368; Aug. 10; v. 277; p. 294.

Arch-support. J. L. Zink. No. 1,349,355; Aug. 10; v. 277; p. 291.

Article-holder, Folding. A. Wiggers. No. 1,349,402; Aug. 10; v. 277; p. 300.

Artillery, Automatic fuse-setter for anti-aircraft. R. V. Morse. No. 1,349,220; Aug. 10; v. 277; p. 264.

Ash-conveyer. A. Girtanner. No. 1,348,937; Aug. 10; v. 277; p. 206.

Auto-jack. W. M. Cook. No. 1,348,851; Aug. 10; v. 277; p. 191.

Auto-signal. E. Ortman. No. 1,349,092; Aug. 10; v. 277; p. 238.

Automatic coupling. W. V. Phillips. No. 1,349,433; Aug. 10; v. 277; p. 306.

Automobile-lock. L. Balestrino and G. Merigone. No. 1,348,841; Aug. 10; v. 277; p. 189.

Automobile-lock. C. W. Nixon. No. 1,348,891; Aug. 10; v. 277; p. 199.

Automobile multiple-lever lock. L. Balestrino and G. Merigone. No. 1,348,840; Aug. 10; v. 277; p. 189.

Automobile-power-transmission device. H. H. Marshall, Jr. No. 1,349,428; Aug. 10; v. 277; p. 305.

Automobile-signal. N. Y. Gordon. No. 1,349,063; Aug. 10; v. 277; p. 233.

Automobile-signal. C. Millar. No. 1,349,289; Aug. 10; v. 277; p. 278.

Automobile-starter. D. Jokubaitis. No. 1,349,207; Aug. 10; v. 277; p. 261.

Automobile-timer. L. E. Middlebrook. No. 1,349,523; Aug. 10; v. 277; p. 324.

Automobiles, Pneumatic transmission for. W. C. Kress. No. 1,349,161; Aug. 10; v. 277; p. 252.

Automobiles, Steering-adjuster for. D. Moulder. No. 1,349,469; Aug. 10; v. 277; p. 313.

Automobiles, Traction attachment for. J. O. Mook. No. 1,349,083; Aug. 10; v. 277; p. 236.

Awning-fastener. A. C. Ross. No. 1,349,532; Aug. 10; v. 277; p. 326.

Ax. J. H. Young. No. 1,348,920; Aug. 10; v. 277; p. 205.

Backwater stop or valve. L. P. Hahn and O. L. Miller. No. 1,348,993; Aug. 10; v. 277; p. 219.

Ball-and-socket joint. J. W. Lakin. No. 1,349,002; Aug. 10; v. 277; p. 220.

Ball-joint, Water and pressure tight. F. Gall and G. Stolle. No. 1,349,060; Aug. 10; v. 277; p. 232.

Banjo-heads, Coöperating means for. L. L. Kenyon. No. 1,349,067; Aug. 10; v. 277; p. 234.

Bar: *See*—
Core-bar. Pressure-bar.

Basket. G. L. O'Dell. No. 1,349,431; Aug. 10; v. 277; p. 306.

Battery: *See*—
Dry battery.

Batteries, Automatic water-feed for storage. J. D. Sartakoff. No. 1,349,297; Aug. 10; v. 277; p. 280.

Batteries, Lifting-handle for storage. E. A. Hurd. No. 1,349,457; Aug. 10; v. 277; p. 310.

Bearing-box. H. C. Foster. No. 1,349,449; Aug. 10; v. 277; p. 309.

Bearing-lubricating device. K. E. Lyman. No. 1,349,076; Aug. 10; v. 277; p. 235.

Bearing, Roller-. C. A. Winn. No. 1,349,307; Aug. 10; v. 277; p. 281.

Bearing, Thrust-. A. Kingsbury. No. 1,349,157; Aug. 10; v. 277; p. 251.

Bed, Auto spring-. W. E. Cummings. No. 1,349,268; Aug. 10; v. 277; p. 274.

Bed, Davenport-. J. Kronheim. No. 1,349,162; Aug. 10; v. 277; p. 252.

Bed, Foldable. E. E. Hartman. No. 1,348,944; Aug. 10; v. 277; p. 209.

Bed-table combined with cupboards or like receptacles. A. Trotter. No. 1,349,023; Aug. 10; v. 277; p. 225.

Bedstead. J. McAllan. No. 1,349,287; Aug. 10; v. 277; p. 277.

Beehive. D. Baxter. No. 1,348,925; Aug. 10; v. 277; p. 206.

Bell-ringing mechanism. H. A. Wende. No. 1,349,400; Aug. 10; v. 277; p. 300.

Belt-tightener, Automatic. H. J. Smith. No. 1,348,905; Aug. 10; v. 277; p. 202.

Bench: *See*—
Advertising-bench.

Blank, Correspondence-. C. J. Bolgiano. No. 1,349,547; Aug. 10; v. 277; p. 328.

Blending-machine. H. P. Fleming. No. 1,349,505; Aug. 10; v. 277; p. 320.

Block: *See*—
Segment-block.

Board: *See*—
Game-board. Violin finger-board.
Plaster-board.

Boats, Fastening device for life-. C. V. Bodom. No. 1,349,317; Aug. 10; v. 277; p. 283.

Bobbin-stripper. G. F. Bahan and A. St. Onge. No. 1,349,448; Aug. 10; v. 277; p. 309.

Boiler-closure for hand-holes. H. A. Jochumsen. No. 1,349,510; Aug. 10; v. 277; p. 321.

Bolt: *See*—
Expansion-bolt. Securing-bolt.

Borax from solutions containing sodium borates, Recovering. C. Sundstrom. No. 1,349,446; Aug. 10; v. 277; p. 309.

Bottle-capping machine. E. E. Phillips. No. 1,349,007; Aug. 10; v. 277; p. 239.

Bottles, Combined cover and closure-remover for. E. F. Kandlbinder. No. 1,349,511; Aug. 10; v. 277; p. 321.

Box: *See*—
Bearing-box. Match-box.
Hinged box.

Brake: *See*—
Window-sash brake.

Brake-head. D. S. Schwartz. No. 1,349,534; Aug. 10; v. 277; p. 326.
Brake-head adjuster. T. L. Burton. No. 1,349,407; Aug. 10; v. 277; p. 301.
Brake-shoe. W. Gibson. No. 1,349,126; Aug. 10; v. 277; p. 245.
Brake-shoe. W. Gibson. No. 1,349,127; Aug. 10; v. 277; p. 245.
Brake-shoe. W. Gibson. No. 1,349,128; Aug. 10; v. 277; p. 245.
Brake-shoe. W. Gibson. No. 1,349,129; Aug. 10; v. 277; p. 245.
Brooder, Chicken-. P. E. Walker. No. 1,349,175; Aug. 10; v. 277; p. 255.
Broom-holder. C. Gustafson. No. 1,349,274; Aug. 10; v. 277; p. 275.
Brush, Cleaning. C. M. Brown. No. 1,349,261; Aug. 10; v. 277; p. 273.
Brush, Fountain-. J. Lukaszewski. No. 1,349,517; Aug. 10; v. 277; p. 323.
Bumper. J. H. Sager. No. 1,348,961; Aug. 10; v. 277; p. 213.
Bumper. J. H. Sager. No. 1,348,962; Aug. 10; v. 277; p. 213.
Bundle-carrier. C. R. Raney. No. 1,349,435; Aug. 10; v. 277; p. 306.
Burner: *See*—
Oil-burner.
Burner. J. O. Carrey. No. 1,349,319; Aug. 10; v. 277; p. 284.
Button, Collar-. F. A. Reinhold, Jr. No. 1,348,958; Aug. 10; v. 277; p. 212.
Button, Shirt-. B. R. Evans. No. 1,348,985; Aug. 10; v. 277; p. 217.
Boilers, Removable plug for. W. H. Winslow. No. 1,348,915; Aug. 10; v. 277; p. 204.
Bomb, Submarine-destroying. J. A. Steinmetz. No. 1,349,014; Aug. 10; v. 277; p. 223.
Bottle-capping apparatus. S. W. Taylor. No. 1,348,908; Aug. 10; v. 277; p. 202.
Bottle-capping machine. C. F. Trottnow. No. 1,348,973; Aug. 10; v. 277; p. 215.
Bottle holder, Nursing-. O. Dulac. No. 1,349,051; Aug. 10; v. 277; p. 230.
Brinnell hardness-tester, Portable. A. Ringland. No. 1,348,897; Aug. 10; v. 277; p. 200.
Cabinet, Phonograph-. E. J. Schaefer. No. 1,349,439; Aug. 10; v. 277; p. 307.
Cable support. O. W. Brenizer. No. 1,349,043; Aug. 10; v. 277; p. 229.
Cabinet, Record-filing. R. McCart, Jr. No. 1,349,466; Aug. 10; v. 277; p. 312.
Cabinet-trap. A. Wiemer. No. 1,349,177; Aug. 10; v. 277; p. 255.
Calculating-machine. J. C. Wahl. No. 1,349,024; Aug. 10; v. 277; p. 225.
Calculating-machines, Dating mechanism for. W. S. Gubelmann. No. 1,348,942; Aug. 10; v. 277; p. 209.
Calculator, Interest-. C. S. Middleton. No. 1,349,081; Aug. 10; v. 277; p. 236.
Caliper or indicating gage. F. E. Ormsby. No. 1,349,091; Aug. 10; v. 277; p. 238.
Canopy, Display-rack. C. Bart. No. 1,349,255; Aug. 10; v. 277; p. 272.
Cap, Bathing-. O. R. Jeffers. No. 1,349,206; Aug. 10; v. 277; p. 261.
Car control. G. N. and A. M. Simpson. No. 1,349,388; Aug. 10; v. 277; p. 297.
Car control, Liquid. G. N. Simpson. No. 1,349,387; Aug. 10; v. 277; p. 297.
Car-doors, Sealed lock for. M. P. Jenkins. No. 1,349,280; Aug. 10; v. 277; p. 276.
Car, Freight-. A. G. Sandman. No. 1,349,106; Aug. 10; v. 277; p. 241.
Car gear-shifting levers, Locks for motor-. G. Green. No. 1,348,868; Aug. 10; v. 277; p. 194.
Car, Interchangeable-unit. H. W. Kirchner. No. 1,349,209; Aug. 10; v. 277; p. 261.
Car, Railway-. G. G. Gilpin. No. 1,348,991; Aug. 10; v. 277; p. 218.
Car windows, Sash-lock for railway-. E. F. Chaffee. No. 1,349,046; Aug. 10; v. 277; p. 229.
Cars, Sheet-metal end structure for railway-. V. E. Sisson. No. 1,349,442; Aug. 10; v. 277; p. 308.
Carbureter. W. J. Ruff. No. 1,349,006; Aug. 10; v. 277; p. 221.
Card holder, Loose-file-. S. J. P. Swallender. No. 1,348,906; Aug. 10; v. 277; p. 202.
Cards, Game-. J. R. Duncan. No. 1,349,189; Aug. 10; v. 277; p. 258.
Carpet-weave. G. Crossland. No. 1,349,367; Aug. 10; v. 277; p. 293.
Carrier: *See*—
Bundle-carrier. Tire-carrier.
Carts, Regulating device for watering-. G. Schlatter and G. Segin. No. 1,349,440; Aug. 10; v. 277; p. 307.
Carving, routing, and similar operations, Machine for. H. M. Albee. No. 1,349,250; Aug. 10; v. 277; p. 271.
Casket and carrier therefor, Glass. J. W. De Camp. No. 1,349,412; Aug. 10; v. 277; p. 302.
Caster. W. H. Noelting. No. 1,349,088; Aug. 10; v. 277; p. 237.
Casting method and apparatus, Centrifugal. H. G. Eynon. No. 1,349,416; Aug. 10; v. 277; p. 303.
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Folding chair.
Chair. J. W. Lang. No. 1,349,164; Aug. 10; v. 277; p. 253.
Chair and sofa, Combination. J. Shkor. No. 1,349,227; Aug. 10; v. 277; p. 265.
Change-gear device. C. E. Frudden. No. 1,348,935; Aug. 10; v. 277; p. 208.
Channeling-machines, Work-feeding mechanism for. F. E. Valois. No. 1,349,239; Aug. 10; v. 277; p. 268.
Chocolate-developing machinery. O. M. Stout. No. 1,349,235; Aug. 10; v. 277; p. 267.
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Cotton-chopper.
Christmas-tree ornament. J. J. Gruenfeld, Jr. No. 1,349,374; Aug. 10; v. 277; p. 295.
Chuck, Magnetic. J. L. Moran. No. 1,349,343; Aug. 10; v. 277; p. 288.
Cigar. E. L. Couch and G. H. Conners. No. 1,349,147; Aug. 10; v. 277; p. 249.
Cigar-piercer. P. Zera. No. 1,349,248; Aug. 10; v. 277; p. 270.
Clamp. J. P. Dolan. No. 1,349,331; Aug. 10; v. 277; p. 286.
Clamp device. H. I. Rosenblum. No. 1,349,225; Aug. 10; v. 277; p. 265.
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Knife-cleaner.
Closure. L. M. Ford. No. 1,348,857; Aug. 10; v. 277; p. 192.
Clothesline-prop. C. E. Davis. No. 1,349,325; Aug. 10; v. 277; p. 285.
Clothespin. A. Roehr. No. 1,349,224; Aug. 10; v. 277; p. 264.
Clutch mechanism. L. F. Boye. No. 1,348,926; Aug. 10; v. 277; p. 206.
Cock and actuating means therefor, Angle-. P. J. Kaveney. No. 1,349,208; Aug. 10; v. 277; p. 261.
Coffee-urn. H. J. Strohbach. No. 1,349,236; Aug. 10; v. 277; p. 267.
Coil-spring, Angular. S. L. Markham. No. 1,349,079; Aug. 10; v. 277; p. 236.
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Speedometer face-plate. J. Berge. No. 55,974; Aug. 10; v. 277; p. 330.
Spoon, fork, or similar article, Handle for a. G. L. Crowell, Jr. Nos. 55,982–3; Aug. 10; v. 277; p. 332.
Spot-light. E. H. Howard. No. 56,066; Aug. 10; v. 277; p. 347.
Soap dispenser, Liquid-. E. L. Morris. No. 56,079; Aug. 10; v. 277; p. 349.
Switch-plate, Double toggle. W. J. Newton. No. 56,023; Aug. 10; v. 277; p. 339.
Switch-plate, Toggle. W. J. Newton. No. 56,022; Aug. 10; v. 277; p. 339.
Talking-board movable member. W. Fuld. No. 56,001; Aug. 10; v. 277; p. 335.
Talking-machine cabinet. C. L. Elmquist. No. 55,989; Aug. 10; v. 277; p. 333.
Talking-machine sound-conducting device. D. Di Carlo. No. 55,986; Aug. 10; v. 277; p. 332.
Tire. W. W. Wildman. No. 56,046; Aug. 10; v. 277; p. 343.
Tire-cover. P. M. Lockwood. No. 56,071; Aug. 10; v. 277; p. 347.
Tire, Non-skid. W. E. Duersten. No. 55,987; Aug. 10; v. 277; p. 332.
Toy magazine-gun. B. M. Griffith. No. 56,063; Aug. 10; v. 277; p. 346.
Toy wheelbarrow. E. Gillam. No. 56,003; Aug. 10; v. 277; p. 336.
Typewriting-machine frame. M. Garbell. No. 56,002; Aug. 10; v. 277; p. 335.
Vase-holder, Automobile. W. Kenner. No. 56,006; Aug. 10; v. 277; p. 336.
Vending-machine case. H. C. Traute. No. 56,038; Aug. 10; v. 277; p. 342.
Votive stand. M. A. Flannery. No. 56,059; Aug. 10; v. 277; p. 345.

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Aluminum-polish. F. G. Stewart. No. 134,093; Aug. 10; v. 277; p. 391.
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Auction-sale outfits. The Flex-Tic Supply Company. No. 133,963; Aug. 10; v. 277; p. 387.
Auto-top dye and dressing. The Waterproofings Manufacturing Co. No. 134,120; Aug. 10; v. 277; p. 392.
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Batteries, Storage. Luthy Storage Battery Company. No. 134,016; Aug. 10; v. 277; p. 389.
Beverages and syrups for making same, Non-alcoholic. Bump Confectionery Co. No. 133,920; Aug. 10; v. 277; p. 386.
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Cables, Electric portable. Tubular Woven Fabric Company. No. 134,107; Aug. 10; v. 277; p. 391.
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Candy. A. G. Morse Co. No. 134,034; Aug. 10; v. 277; p. 389.
Candy. A. T. Harrell. No. 133,988; Aug. 10; v. 277; p. 388.
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Cards, Advertising-. Bert L. White Company. No. 134,131; Aug. 10; v. 277; p. 392.
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Catsup, vinegar, coffee, &c. J. F. Halladay & Son. No. 133,992; Aug. 10; v. 277; p. 388.
Cereal products and a preparted cake-flour. C. A. Gambrill Manufacturing Company. No. 133,970; Aug. 10; v. 277; p. 387.
Cheese. J. L. Kraft & Bros. Co. No. 134,008; Aug. 10; v. 277; p. 388.
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Chocolate packed in boxes and packages. Seggerman Bros. No. 134,084; Aug. 10; v. 277; p. 391.
Chocolates. Peter Callier Kohler Swiss Chocolates Co. No. 134,098; Aug. 10; v. 277; p. 391.
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Hams, bacon, and picnic-hams. J. E. Decker & Sons. No. 133,950; Aug. 10; v. 277; p. 386.
Hosiery and children's rompers. J. E. Baer. No. 133,902; Aug. 10; v. 277; p. 385.
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Sardines. The Oversea Export Co. No. 134,051; Aug. 10; v. 277; p. 390.
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Soaps. C. G. Moller. No. 134,032; Aug. 10; v. 277; p. 389.
Soaps and soap powders. Grain Soaps Corporation. No. 133,982; Aug. 10; v. 277; p. 387.
Soaps, cleansers, and metal-polishes. Frampton Chemical Co. No. 133,967; Aug. 10; v. 277; p. 387.
Spaghetti, macaroni, vermicelli, and egg-noodle. Fortune Products Company. Nos. 133,965–6; Aug. 10; v. 277; p. 387.
Stove and shoe polishes, stove and shoe polishing outfits, and shoe-cleaner. W. B. Hollingshead Co. No. 133,993; Aug. 10; v. 277; p. 388.
Sugar. The Tropics Corporation. No. 134,106; Aug. 10; v. 277; p. 391.
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Syrup for soda-water beverages, Non-alcoholic non-cereal maltless. Keystone Fruit Products Company. No. 134,007; Aug. 10; v. 277; p. 388.
Syrup used for food purposes, Malt. Eflorose Sugar Co. No. 133,959; Aug. 10; v. 277; p. 387.
Syrups, Cereal and sugar. The Nulomoline Company. No. 134,046; Aug. 10; v. 277; p. 389.
Tablets and papers and envelops, Writing. The Wynne Paper Co. No. 134,146; Aug. 10; v. 277; p. 392.
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Vegetables, Fresh. E. M. Sheehan. No. 134,087; Aug. 10; v. 277; p. 391.
Washing compound, Hand-. A. J. Leonard. No. 134,010; Aug. 10; v. 277; p. 388.
Washing preparation. R. J. Peska. No. 134,064; Aug. 10; v. 277; p. 390.
Watch and clock parts. Henry Zimmern & Company. No. 134,147; Aug. 10; v. 277; p. 392.
Watches. Lorraine Watch Co. No. 134,014; Aug. 10; v. 277; p. 388.
Waxes, Insulating. Smith & Nichols. No. 134,091; Aug. 10; v. 277; p. 391.
Webs, Elastic. Faire Bros. & Co. No. 133,961; Aug. 10; v. 277; p. 387.
Wheels, Grinding and polishing. Abrasive Company. No. 133,888; Aug. 10; v. 277; p. 385.
Woolen cloth for tailoring purposes. Rosenberg Bros. No. 134,075; Aug. 10; v. 277; p. 390

ALPHABETICAL LIST OF LABELS.

"Bears Fluff Powder." (For Fluff-Powder.) Bear Brothers Co. No. 21,957; Aug. 10; v. 277; p. 393.
"Cinnamons." (For Candies.) Beech-Nut Packing Company. No. 21,960; Aug. 10; v. 277; p. 393.
"Handy Candy Lemon Drops." (For Candy.) Beech-Nut Packing Company. No. 21,959; Aug. 10; v. 277; p. 393.
"Lime Drops." (For Candy.) Beech-Nut Packing Company. No. 21,958; Aug. 10; v. 277; p. 393.
"Pasco." (For Greases.) Pan-American Supply Company, Inc. No. 21,962; Aug. 10; v. 277; p. 393.
"Radish." (For Radish-Seeds.) Alfred J. Brown Seed Company. No. 21,961; Aug. 10; v. 277; p. 393.
"S C Ready Sauce." (For a Gravy.) Santo Caramella. No. 21,963; Aug. 10; v. 277; p. 393.

ALPHABETICAL LIST OF PRINTS.

"Handy Candy Wintergreens." (For Candy.) Beech-Nut Packing Company. No. 5,281; Aug. 10; v. 277; p. 393.
"Handy Candy Lemon Drops." (For Candy.) Beech-Nut Packing Company. No. 5,282; Aug. 10; v. 277; p. 393.
"Handy Candy Lime Drops." (For Candy.) Beech-Nut Packing Company. No. 5,283; Aug. 10; v. 277; p. 393.
"Handy Candy Cinnamons." (For Candies.) Beech-Nut Packing Company. No. 5,284; Aug. 10; v. 277; p. 393.
"Nucoa Churn Girl." (For Substitute for Butter.) The Nucoa Butter Company. No. 5,286; Aug. 10; v. 277; p. 393.
"Sweetheart Chocolates." (For Candy.) The Harter Candy Co. No. 5,285; Aug. 10; v. 277; p. 393.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Adhesive liquid composition used in the repair and patching of rubber, leather, &c. A. J. Tomlinson. No. 128,862; Aug. 10; v. 277; p. 363.
Alloys, Ferrovanadium. The Colorado Vanadium Corporation. No. 132,720; Aug. 10; v. 277; p. 377.
Antiseptic preparation. The Abbott Laboratories. No. 122,673; Aug. 10; v. 277; p. 357.
Arrons. A. F. Gerlach Mfg. Co. No. 132,350; Aug. 10; v. 277; p. 375.
Armbands, garters, and suspenders. Slonim Brothers. No. 124,696; Aug. 10; v. 277; p. 358.
Asbestos lumber, wood, wall-board, &c. Asbestos Wood Mfg. Corp. No. 130,796; Aug. 10; v. 277; p. 369.
Automobiles. Automotive Products Corporation. No. 132,285; Aug. 10; v. 277; p. 374.
Automobiles. The R. & L. Baker Company. Nos. 102,066–7; Aug. 10; v. 277; p. 353.
Baths, Curtainless shower-. The Curtainless Shower Company. Nos. 133,297–8; Aug. 10; v. 277; p. 380.
Baths, Curtainless shower-. The Curtainless Shower Company. No. 133,300; Aug. 10; v. 277; p. 380.
Batteries and connectors therefor, Secondary. Westinghouse Union Battery Co. Nos. 134,682–3; Aug. 10; v. 277; p. 384.
Batteries and flash-lights, Electric. Van Camp Hardware & Iron Company. No. 129,158; Aug. 10; v. 277; p. 364.
Batteries and storage-battery parts, Storage. The Eagle-Picher Lead Co. No. 131,470; Aug. 10; v. 277; p. 372.
Batteries of the lead-acids type, &c., Storage. G. Ziegler. No. 131,849; Aug. 10; v. 277; p. 373.
Batteries, Secondary. Westinghouse Union Battery Co. No. 134,928; Aug. 10; v. 277; p. 384.
Batteries, Storage. Luthy Storage Battery Company. No. 134,712; Aug. 12; v. 277; p. 384.
Belt-fasteners. Flexible Steel Lacing Company. No. 131,419; Aug. 10; v. 277; p. 371.
Belting, Canvas. Herschel-Roth Manufacturing Company. No. 126,768; Aug. 10; v. 277; p. 359.
Belting composed of laminæ of fabric, &c. Fabreeka Belting Company. No. 131,022; Aug. 10; v. 277; p. 370.
Belting, Leather. Chicago Belting Company. No. 131,942; Aug. 10; v. 277; p. 373.
Belting, Leather. E. F. Houghton & Co. No. 126,516; Aug. 10; v. 277; p. 359.
Beverage, Non-alcoholic non-intoxicating non-cereal maltless. J. G. F. Hieber. No. 131,703; Aug. 10; v. 277; p. 372.
Beverage, Non-alcoholic. Piel Bros. Nos. 131,283–4; Aug. 10; v. 277; p. 371.
Beverage, Non-intoxicating malt. Bosch Brewing Company. No. 113,115; Aug. 10; v. 277; p. 354.
Bodkins and tape-needles. M. A. Patterson. No. 133,793; Aug. 10; v. 277; p. 382.
Books published periodically, Series of. Grosset & Dunlap. No. 134,469; Aug. 10; v. 277; p. 383.
Braids, cords, shoe, corset, and middy laces, tassels, &c. The Sutro Bros. Braid Company. No. 133,332; Aug. 10; v. 277; p. 380.
Brooms. J. Stein. No. 130,496; Aug. 10; v. 277; p. 368.
Buttons. National Ring Traveler Co. No. 132,478; Aug. 10; v. 277; p. 376.
Buttons. National Ring Traveler Co. No. 132,480; Aug. 10; v. 277; p. 376.
Buttons and buttons for dresses, clothing, &c., Shoe. Wenck & Co. No. 133,437; Aug. 10; v. 277] p. 380.
Cabinets and refrigerators, Combined kitchen. Tennessee Furniture Corporation. No. 127,788; Aug. 10; v. 277; p. 361.
Cakes, wafers, crackers. Loose-Wiles Biscuit Company. No. 121,868; Aug. 10; v. 277; p. 356.
Calendars. G. V. House. No. 134,511; Aug. 10; v. 277; p. 383.
Candies, Chocolate. Fidelity Chocolate Company. No. 104,071; Aug. 10; v. 277; p. 353.
Candy. Durand Company. No. 131,700; Aug. 10; v. 277; p. 372.
Candy. The Robert F. Mackenzie Co. No. 132,802; Aug. 10; v. 277; p. 377.
Candy. J. H. Riegler. No. 132,997; Aug. 10; v. 277; p. 378.
Candy. Russell & Co. No. 132,938; Aug. 10; v. 277; p. 378.
Candy. The Touraine Company. No. 131,512; Aug. 10; v. 277; p. 372.
Canned fruits. Bay Side Canning Co. No. 128,820; Aug. 10; v. 277; p. 363.
Canned vegetables and fruits. Western Canning Company. No. 124,031; Aug. 10; v. 277; p. 358.
Carbon-cleaner, Chemical. R. R. Champlin. No. 122,630; Aug. 10; v. 277; p. 357.
Carbureters. Carter Carbureter Company. No. 133,516; Aug. 10; v. 277; p. 381.
Carbureters, mechanical carbon-removers and air-traps, &c. Romul Manufacturing Company. No. 130,431; Aug. 10; v. 277; p. 368.
Cards and chips, cribbage-boards, Playing. Tiffany & Company. Nos. 128,234–5; Aug. 10; v. 277; p. 362.
Catamenial bandages. J. B. Marshall. No. 120,426; Aug. 10; v. 277; p. 355.
Cement-concrete blocks and slabs, cement-asbestos plates, &c. Bell's United Asbestos Co. No. 131,895; Aug. 10; v. 277; p. 373.
Cement, flooring and insulating materials for heat or cold, Arboreal healing-. F. A. Bartlett. No. 132,841; Aug. 10; v. 277; p. 377.
Cleaning and polishing paste for automobile bodies, &c. Simons Manufacturing Company. No. 127,783; Aug. 10; v. 277; p. 361.
Cleaning preparations. F. P. Symonds. No. 134,550; Aug. 10; v. 277; p. 383.
Cleaning substance for carpets, clothing, draperies, &c. C. Levy. No. 134,713; Aug. 10; v. 277; p. 384.
Clubs and balls, Golf-. The Crawford, McGregor & Canby Company. No. 130,520; Aug. 10; v. 277; p. 369.
Copper as a metal or alloy, Hardened. Dawson Metals, Inc. No. 127,903; Aug. 10; v. 277; p. 361.
Carbon-removing compound. G. W. Graham. No. 130,789; Aug. 10; v. 277; p. 369.
Corsets. Chas. A. Stevens & Bros. No. 133,232; Aug. 10; v. 277; p. 379.
Concrete forms and shaping devices. Metal Forms Corporation. No. 132,751; Aug. 10; v. 277; p. 377.
Concrete, Specially-prepared material or substance for the making of. The Atlas Portland Cement Company. No 116,673; Aug. 10; v. 277; p. 354.
Confectionery, Sweetened material used as a filler and topping for. White Stokes Co. No. 132,951; Aug. 10; v. 277; p. 378.
Construction material. Zenitherm Company. No. 130,562; Aug. 10; v. 277; p. 369.
Cotton dress and underwear piece goods. Windsor Print Works. No. 132,214; Aug. 10; v. 277; p. 374.
Cotton dress and underwear piece goods. Windsor Print Works. No. 132,216; Aug. 10; v. 277; p. 374.
Cotton piece goods. American Trading Company. No. 129,295; Aug. 10; v. 277; p. 365.
Cotton piece goods. Rafael Del Castillo & Co. No. 130,982; Aug. 10; v. 277; p. 370.
Cotton piece goods. Rafael Del Castillo & Co. No. 130,984; Aug. 10; v. 277; p. 370.
Cotton piece goods. Rice-Stix Dry Goods Company. No. 131,286; Aug. 10; v. 277; p. 371.
Cotton textile fabrics. H. Broder. No. 132,772; Aug. 10; v. 277; p. 377.
Dental, medical, and surgical appliances. A. E. Fraass. No. 123,116; Aug. 10; v. 277; p. 357.
Dessert mixture, Flavored pudding-. Bakers Supply Company. No. 132,972; Aug. 10; v. 277; p. 378.
Dolls. Federal Doll Manufacturing Co. No. 130,959; Aug. 10; v. 277; p. 370.
Dress-shields. J. J. Beyerle Mfg. Co. Nos. 132,293–4; Aug. 10; v. 277; p. 375.
Electric apparatus. James Clark, Jr., Electric Co. No. 131,854; Aug. 10; v. 277; p. 373.
Electrical appliances. Redmanol Chemical Products Co. No. 130,061; Aug. 10; v. 277; p. 367.
Electrical heating appliances and parts. American Electrical Heater Co. No. 132,377; Aug. 10; v. 277; p. 375.
Electrical testing devices. The John Hugo Mfg. Co. No. 131,427; Aug. 10; v. 277; p. 372.
Embroideries and laces in the piece, handkerchiefs. L. A. Silk. No. 127,491; Aug. 10; v. 277; p. 360.
Embroidery edging, rick-rack, braid, &c. George Williams Company. No. 134,498; Aug. 10; v. 277; p. 383.
Eyeglass or pencil holders, Automatic-winding. Ketcham & McDougall. No. 128,688; Aug. 10; v. 277; p. 362.
Fasteners, Snap-. Mosstwin Company. Nos. 118,923–4; Aug. 10; v. 277; p. 355.
Feathers, Burnt coque. E. M. Lang. No. 130,725; Aug. 10; v. 277; p. 369.
Finishes, stairwork, &c., Inside and outside. Illinois Valley Sash & Door Company. Nos. 129,550–1; Aug. 10; v. 277; p. 365.
Flatirons, Electric. Chicago Flexible Shaft Company. No. 133,955; Aug. 10; v. 277; p. 382.
Flavoring extracts, Food-. J. C. Waltersdorff. No. 121,225; Aug. 10; v. 277; p. 356.
Flour, Wheat-. Bech, Van Sicien & Co. No. 130,014; Aug. 10; v. 277; p. 367.

Flour, Wheat-. The Belpre Co-Operative Equity Union. No. 132,911; Aug. 10; v. 277; p. 378.
Flour, Wheat-. The Scott County Milling Company. No. 128,865; Aug. 10; v. 277; p. 363.
Food products. West Indies Importing Co. No. 133,195; Aug. 10; v. 277; p. 379.
Fruits and vegetables, Fresh citrus. Gould's Fruit & Vegetable Growers Assn. No. 127,911; Aug. 10; v. 277; p. 361.
Fruits, Citrus and fresh. Small, L. K., Company. No. 132,814; Aug. 10; v. 277; p. 377.
Garments for children, Outer wash-. P. L. Seligman. No. 132,027; Aug. 10; v. 277; p. 373.
Garters, armbands, and children's hose-supporters. Sturm & Scheinberg. No. 134,389; Aug. 10, v. 277; p. 382.
Gaskets, molded, asbestos, rubber, &c. Barco Manufacturing Company. No. 120,516; Aug. 10; v. 277; p. 356.
Gasolene, naphtha, kerosene, and fuel-oil. Sloan & Zook. No. 128,866; Aug. 10; v. 277; p. 363.
Grinding compound for bearings, &c. J. A. Menard. No. 120,116; Aug. 10; v. 277; p. 355.
Hair goods, Ladies'. R. Ginsberg & Bro. No. 134,539; Aug. 10; v. 277; p. 388.
Hair-nets. Samstag & Hilder Bros. No. 134,277; Aug. 10; v. 277; p. 382.
Hairpins. J. A. Migel, Inc. No. 129,180; Aug. 10; v. 277; p. 364.
Hairpins. J. A. Migel, Inc. No. 129,184; Aug. 10; v. 277; p. 364.
Handbags, Ladies' mesh. Wiener Bros. No. 134,619; Aug. 10; v. 277; p. 383.
Hat-bands, skirt and dress beltings, pump-bows, &c. Economic Manufacturing Co. No. 134,812; Aug. 10; v. 277; p. 384.
Hats for women and children and booties for infants. E. E. Owens. No. 123,753; Aug. 10; v. 277; p. 358.
Hose-supporters. C. W. Egerton. No. 130,755; Aug. 10; v. 277; p. 369.
Injector-parts. William Sellers & Company. No. 132,623; Aug. 10; v. 277; p. 376.
Jam, jelly, fruit preserves, and conserves. The Welch Grape Juice Company. No. 132,619; Aug. 10; v. 277; p. 376.
Jewelry, Settings for articles of. Schiess-Harwood Company. No. 133,024; Aug. 10; v. 277; p. 378.
Kerosene. A. F. Thane & Co. Nos. 132,573–4; Aug. 10; v. 277; p. 376.
Knitted underwear. W. E. Tillotson Manufacturing Company. No. 129,194; Aug. 10; v. 277; p. 364.
Knitted underwear, Women's. Tamaqua Underwear Company. No. 130,183; Aug. 10; v. 277; p. 368.
Lamps, Electric. North American Electric Lamp Company. No. 134,427; Aug. 10; v. 277; p. 383.
Lamps, electric dry batteries, and commercial interior electrical fixtures, Arc and incandescent electric. The Ullman Electric Company. No. 128,600; Aug. 10; v. 277; p. 362.
Laxative. N. Lukin. No. 126,817; Aug. 10; v. 277; p. 360.
Lead and ready-mixed paints, Tinted. The Tripod Paint Co. No. 129,356; Aug. 10; v. 277; p. 365.
Leather, Imitation. Henry Gitterman & Co. No. 130,413; Aug. 10; v. 277; p. 368.
Lumber and timber. The Arrow Lumber Company. No. 131,767; Aug. 10; v. 277; p. 372.
Lumber, Rough and dressed. J. M. Card Lumber Co. No. 133,252; Aug. 10; v. 277; p. 379.
Macaroni. Prince Marcaroni Mfg. Co. No. 121,126; Aug. 10; v. 277; p. 356.
Magazines, Monthly. T. A. Randall & Co. No. 123,863; Aug. 10; v. 277; p. 358.
Mailing tubes, bags, boxes, folders, &c. International Mailing Tube and Wrapper Co. No. 105,258; Aug. 10; v. 277; p. 354.
Malt extract. H. P. Schroeder. No. 133,503; Aug. 10; v. 277; p. 381.
Mattresses. Carter Bros. Mattress Co. No. 130,021; Aug. 10; v. 277; p. 367.
Metal-polish. Cleroline Chemical Company. No. 133,183; Aug. 10; v. 277; p. 379.
Metal-polish, Liquid. Dominant Products Co. No. 133,184; Aug. 10; v. 277; p. 379.
Milk, Fermented. S. Karak. No. 126,805; Aug. 10; v. 277; p. 360.
Molds for concrete, Steel. Deslauriers Column Mould Co. No. 132,778; Aug. 10; v. 277; p. 377.
Mops. Massasoit Manufacturing Company. No. 129,225; Aug. 10; v. 277; p. 364.
Mops. Massasoit Manufacturing Company. No. 129,227; Aug. 10; v. 277; p. 364.
Mops. Massasoit Manufacturing Company. No. 129,229; Aug. 10; v. 277; p. 364.
Mops. Massasoit Manufacturing Company. No. 129,232; Aug. 10; v. 277; p. 364.
Mops. Massasoit Manufacturing Company. No. 129,235; Aug. 10; v. 277; p. 264.
Motors, Electric. American Electric Company. No. 133,649; Aug. 10; v. 277; p. 381.
Music-sheet-perforating machines. Leabarjan Manufacturing Company. No. 125,895; Aug. 10; v. 277; p. 359.
Musical instruments in the nature of a whistle, Novelty wind-operated. G. W. Stivers. No. 133,982; Aug. 10; v. 277; p. 382.
Neckties, cravats, ladies' shirtwaists, men's belts, &c. Herman Neckware Manufacturing Company. No. 126,322; Aug. 10; v. 277; p. 359.
Needles for hand-sewing and toilet-pins. Guillaume Limited. No. 131,262; Aug. 10; v. 277; p. 370.
Needles, toilet and safety pins, shoe-buckles, &c., Hand sewing-. Caravel Company. No. 134,116; Aug. 10; v. 277; p. 382.
Negligées, semidress-gowns, wrappers, and kimonos. S. S. Fleishel. No. 132,301; Aug. 10; v. 277; p. 375.
Nests, Hens'. G. A. Brown. No. 125,074; Aug. 10; v. 277; p. 359.
Oil, Manufactured. Pittsburgh Oil Refining Corporation. No. 132,024; Aug. 10; v. 277; p. 373.
Oils, Fuel-. Hyco Fuel Products Corporation. No. 122,356; Aug. 10; v. 277; p. 356.
Oils, greases, &c., Black, compounded, crude, cutting &c. The Atlantic Refining Company. No. 130,125; Aug. 10; v. 277; p. 367.
Oils, greases, &c., Cutting and lubricating. Sun Company. Nos. 118,808–9; Aug. 10; v. 277; p. 355.
Overalls for children. Jobbers Overall Co. No. 133,219; Aug. 10; v. 277; p. 379.
Overalls, knee-pants, and coats, Boys'. Arthur A. Katten Company. No. 124,796; Aug. 10; v. 277; p. 359.
Paint. The Brockway-Smith Corporation. No. 122,329; Aug. 10; v. 277; p. 356.
Paint, Flat wall-. The Tripod Paint Co. No. 129,355; Aug. 10; v. 277; p. 365.
Paints, Dry, paste, and ready-mixed. Industrial Paint Company. No. 129,894; Aug. 10; v. 277; p. 367.
Pajamas and kimonos. B. Damsey. No. 133,405; Aug. 10; v. 277; p. 380.
Pajamas, night-robes, blouses, &c. H. D. Konski. No. 132,014; Aug. 10; v. 277; p. 373.
Paper, Daily. The McCord Co. No. 134,424; Aug. 10; v. 277; p. 383.
Papers, bristol-board, cardboard, &c. Strathmore Paper Company. No. 131,507; Aug. 10; v. 277; p. 372.
Pearls. Manhattan Bead Chain Company. No. 132,606; Aug. 10; v. 277; p. 376.
Pearls, collars of pearls, and jewels adorned with pearls, &c. Société La Perle Saskia. No. 130,245; Aug. 10; v. 277; p. 368.
Pen-points, Metallic. C. D. Roberts. Nos. 128,741–2; Aug. 10; v. 277; p. 363.
Phonograph-records. L. Bernstein. No. 127,957; Aug. 10; v. 277; p. 362.
Phonographs, graphophones, and talking-machines. Root & Company. No. 118,611; Aug. 10; v. 277; p. 355.
Phonographs, talking-machines, and sound-records. B. Rubin. No. 133,594; Aug. 10; v. 277; p. 381.
Photographic prints. The Z. T. Briggs Photographic Supply Co. No. 132,229; Aug. 10; v. 277; p. 374.
Piano, furniture, woodwork, &c., polish. H. H. Fritch. No. 129,711; Aug. 10; v. 277; p. 366.
Piano keys and sound-boxes. F. Lauter. No. 131,812; Aug. 10; v. 277; p. 373.
Pianos and piano-players, Self-playing. M. Welte & Sons. No. 109,958; Aug. 10; v. 277; p. 354.
Pianos, automatic and player pianos, and perforated music-rolls. J. Herrburger. No. 128,305; Aug. 10; v. 277; p. 362.
Pianos, automatic and player pianos, &c. M. Welte & Sons. No. 108,763; Aug. 10; v. 277; p. 354.
Pianos, phonographs, and talking-machines. H. J. Sohmer. No. 132,067; Aug. 10; v. 277; p. 374.
Piston-rings. Gill Manufacturing Company. No. 127,545; Aug. 10; v. 277; p. 360.
Polish used on painted and varnished surfaces. Mrs. L. P. Marx. No. 130,605; Aug. 10; v. 277; p. 369.
Publication issued at irregular intervals, Art-needlework. Bernhard Ulmann Co. No. 134,679; Aug. 10; v. 277; p. 384.
Publication, Medical periodical. F. I. Lackenbach. No. 134,591; Aug. 10; v. 277; p. 383.
Publications issued quarterly. Society, Sons of The Revolution, in the State of California. No. 131,402; Aug. 10; v. 277; p. 371.
Punches, shears, &c., Power steel. Beatty Machine & Mfg. Co. No. 127,752; Aug. 10; v. 277; p. 361.
Razors and shears. Rapp & Doolittle. No. 132,447; Aug. 10; v. 277; p. 375.
Refrigerating-machines. Automatic Carbonic Machine Company. No. 122,507; Aug. 10; v. 277; p. 357.
Roofing. The Beaver Company. No. 132,423; Aug. 10; v. 277; p. 357.
Roofing, Asphalt. Waldo Bros. and Bond Company. No. 132,905; Aug. 10; v. 277; p. 378.
Roofing compound, Liquid. M. M. Casamer. No. 131,817; Aug. 10; v. 277; p. 373.
Roofing compounds, Plastic. G. H. Voter. No. 133,507; Aug. 10; v. 277; p. 381.
Roofing, Prepared asphalt. Ford Roofing Products Company. Nos. 129,880–1; Aug. 10; v. 277; p. 366.
Roofing, Prepared asphalt. Ford Roofing Products Company. Nos. 129,883–4; Aug. 10; v. 277; p. 367.
Roofing, tiles, shingles, &c., Prepared sheet-. The Beaver Company. No. 132,075; Aug. 10; v. 277; p. 374.

Rubber patches. Stearns Rubber Products Company. No. 127,453; Aug. 10; v. 277; p. 360.
Sandals, Metal. Roe Metal Sandal Company. No. 124,917; Aug. 10; v. 277; p. 360.
Sateen piece goods. Strauss Brothers. No. 131,407; Aug. 10; v. 277; p. 371.
Saws for wood, metal, &c., band-saws, machine-knives, &c., Circular. E. C. Atkins & Company. No. 128,995; Aug. 10; v. 277; p. 363.
Sedative diuretic compound. Sharp & Dohme. No. 127,334; Aug. 10; v. 277; p. 360.
Separators, Cream-. The Vega Separator Company. No. 128,910; Aug. 10; v. 277; p. 363.
Sheetings. Cowpens Mills. No. 134,347; Aug. 10; v. 277; p. 382.
Sheetings and drills in the piece, Gray. Piedmont Mfg. Co. No. 133,374; Aug. 10; v. 277; p. 380.
Shellacs, lacquers, and prepared shellac substitutes. Charles McAdam Co. No. 131,276; Aug. 10; v. 277; p. 371.
Shingles and prepared asphalt roofing. Ford Roofing Products Company. No. 129,882; Aug. 10; v. 277; p. 366.
Shirts, Dress, negligée, and work. Metro Shirt Co. No. 124,048; Aug. 10; v. 277; p. 358.
Shirts, Flannel outer. D. M. Oberman Manufacturing Company. No. 129,336; Aug. 10; v. 277; p. 365.
Shirts, Men's dress, negligée, and work. The Shirtcraft Co. No. 130,920; Aug. 10; v. 277; p. 369.
Shirts, Men's negligée, and dress. Hero Shirt Manufacturing Company. No. 120,825; Aug. 10; v. 277; p. 356.
Shirts, pajamas, collars, &c., Dress, negligée, and work. Goldsmith & Lerner. No. 124,438; Aug. 10; v. 277; p. 358.
Shoe-cloth in the piece. Farnsworth, Hoyt Co. No. 133,905; Aug. 10; v. 277; p. 382.
Shoe dressing and polishes, &c. John C. Stalfort & Sons. No. 126,783; Aug. 10; v. 276; p. 360.
Shoe-dressing in the form of a white dry powder. Miller-Walker Laboratories. No. 133,222; Aug. 10; v. 277; p. 379.
Shoes of leather, &c., Men's and boys'. Craddock-Terry Company. No. 133,446; Aug. 10; v. 277; p. 380.
Side frames, couplers, draft-gears, &c. American Steel Foundries. No. 127,791; Aug. 10; v. 277; p. 361.
Silk piece goods. Coudurier, Fructus & Descher. No. 134,110; Aug. 10; v. 277; p. 382.
Sleepers of cementitious material. Nailcrete Corporation. No. 134,722; Aug. 10; v. 277; p. 384.
Snap-fasteners, hooks and eyes, safety-pins, &c. The Dry Goods Alliance. No. 134,537; Aug. 10; v. 277; p. 383.
Soap. B. Altman & Co. No. 128,581; Aug. 10; v. 277; p. 362.
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	198:	1,349,056	223—	17:	1,348,922		90:	1,348,970		56:	1,348,993	270—	39:	1,348,846		92:	1,349,032
211—	13:	1,349,022		54:	1,349,225		92:	1,349,241		119:	1,349,145	271—	62:	1,349,133		95:	1,349,430
	14:	1,349,255	224—	29:	1,349,270			1,349,485		121:	1,349,210	273—		1,348,984		116:	1,349,045
	16:	1,349,466			1,349,507		102:	1,349,392	253—	53:	1,349,487			1,348,943	298—	5:	1,349,285
	20:	1,349,253	226—	84:	1,348,908		108:	1,349,478		176:	1,349,397	274—	2:	1,349,439	299—	20:	1,349,314
	24:	1,349,402			1,348,973	242—	117:	1,349,030		199:	1,348,980		15:	1,349,240		108:	1,349,440
213—	10:	1,349,433			1,349,097	244—	3:	1,349,335	254—	89:	1,348,851		28:	1,349,205	304—	10:	1,349,093
	40:	1,348,947	227—	20:	1,348,872		12:	1,349,242			1,348,867	275—	6:	1,349,152		30:	1,349,426
	67:	1,349,300	228—	40:	1,349,125		14:	1,348,971		103:	1,349,101	279—	79:	1,348,917			

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 17TH DAY OF AUGUST, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott Incorporated. (See Abbott, William E., assignor.)

Abbott, William E., assignor to Abbott Incorporated, Bend, Oreg. Check-book attachment. No. 1,350,203; Aug. 17; v. 277; p. 528.

Abelson, Abraham, Brooklyn, N. Y. Restaurant-service device. No. 1,349,647; Aug. 17; v. 277; p. 421.

Ackermann, Oscar A., St. Paul, Minn. Stock-car. No. 1,349,747; Aug. 17; v. 277; p. 441.

Agee, Arthur E. (See Sharpnack, M. C., and Crisman, assignors.)

Ahlbom, Oscar W., Salt Lake City, Utah. Bicycle-sled. No. 1,350,052; Aug. 17; v. 277; p. 499.

Aktiebolaget Svenska Kullager-Fabriken. (See Palmgren, Nils A., assignor.)

Albrecht, Albert W., St. Louis, Mo. Collapsible burial-casket. No. 1,349,799; Aug. 17; v. 277; p. 451.

Alderson, William, Kimberley, South Africa. Construction of ships. No. 1,349,800; Aug. 17; v. 277; p. 451.

Allen, Charles, El Paso, Tex. Slime-pulp thickener. No. 1,350,204; Aug. 17; v. 277; p. 529.

Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Self-propelled vehicle. No. 1,349,997; Aug. 17; v. 277; p. 488.

Allen, Herbert L., and K. R. Fox, assignors to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,349,597; Aug. 17; v. 277; p. 411.

Allen, S. L., & Co. (See Allen, Charles J., assignor.)

Allison, Carl F., Woodlawn, Pa. Solder composition. No. 1,349,648; Aug. 17; v. 277; p. 421.

Alsten, Alfred O., assignor of one-third to F. A. Sanderson and one-third to A. L. Johnson, Worcester, Mass. Jack. No. 1,349,801; Aug. 17; v. 277; p. 451.

Althouse, Charles S., Reading, Pa. Dyeing. No. 1,349,867; Aug. 17; v. 277; p. 464.

American Automatic Products Corporation. (See Woodward, Garrett W., assignor.)

American Can Company. (See Grey, James A., assignor.)

American Can Company. (See Halloway, William M., assignor.)

American Can Company. (See Johnson, Axel, assignor.)

American Clearing Company. (See Barber, Harry E., assignor.)

American District Telegraph Company. (See Hopkins, Richard M., assignor.)

American Laundry Machinery Company, The. (See Carroll Emil J., assignor.)

American Steam Gauge & Valve Manufacturing Company. (See Hopkins, Frank H., assignor.)

Anagnostopoulos, Theodore D. (See Theodore, Anostopoulo D.)

Anderson, Chester H., assignor of one-fourth to C. L. Hill and two-fourths to H. R. Kleinbach, Los Angeles, Calif. Clock. No. 1,350,131; Aug. 17; v. 277; p. 514.

Anderson, John E., Jamestown, N. D. Hose-reel. No. 1,350,205; Aug. 17; v. 277; p. 529.

Apsley Rubber Company. (See Wrestling, Herman, assignor.)

Armstrong, Victor C. (See Payne, Ralph W., assignor.)

Armour, Robert, Providence, R. I. Trick pocket-knife. No. 1,350,251; Aug. 17; v. 277; p. 537.

Arnold, Charles E., assignor to du Pont Fabrikoid Company, Wilmington, Del. Forming artificial leather and product thereof. No. 1,350,271; Aug. 17; v. 277; p. 541.

Arthur, Kemp B., Norfolk, Va. Adjustable and separable stud or button. No. 1,349,649; Aug. 17; v. 277; p. 421.

Ashcroft, Edgar A., London, England. Manufacture of potassium chlorid from natural silicates, rocks, minerals, residues, or wastes containing potassium. No. 1,350,091; Aug. 17; v. 277; p. 506.

Ashley, Walter A., Chillicothe, Ohio. Fitting for domestic gas-meters. No. 1,350,132; Aug. 17; v. 27; p. 514.

Atlantic Metal Hose Company. (See Siegel, Samuel, assignor.)

Atterbury, Grosvenor, New York, N. Y. Reinforced cellular structure. No. 1,349,868; Aug. 17; v. 277; p. 464.

Austin, Eber C., Wahoo, Nebr. Valve-spring lifter. No. 1,349,934; Aug. 17; v. 277; p. 476.

Austin, Frederick C. (See Bentson, Hans J., assignor.)

Auto Slyde & Moving Picture Machine Co. (See Klaiber, Maximilian, assignor.)

Awischus, August, Filley, Nebr. Lifting-grapple. No. 1,350,053; Aug. 17; v. 277; p. 499.

Aylward, Henry W., Brooklyn, N. Y. Expansion-bolt. No. 1,349,998; Aug. 17; v. 277; p. 489.

Ayotte, Joseph R., Chicago, Ill. Hand-tool. No. 1,349,553; Aug. 17; v. 277; p. 403.

Ayraud, Jules J. (See McCullar, W. A., and Ayrand.)

Badenhausen, John P., Philadelphia, Pa. Superheater. No. 1,349,554; Aug. 17; v. 277; p. 403.

Badier, Louis G., and L. B. Holliday, assignors to L. B. Holliday & Co., Limited, Huddersfield, England. Manufacture of picric acid. No. 1,349,802; Aug. 17; v. 277; p. 451.

Baker, Edward J., Chicago, Ill. Advertising device. No. 1,350,054; Aug. 17; v. 277; p. 499.

Balke, Clarence W., Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Amalgamating steel bodies. No. 1,349,999; Aug. 17; v. 277; p. 489.

Ballman, Edwin C., assignor to Valley Electric Company, Wilmington, Del. Cartridge-type fuse. No. 1,350,065; Aug. 17; v. 277; p. 500.

Bancarel, Charles, Levallois-Perret, France. Portable cinematographic apparatus. No. 1,349,650; Aug. 17; v. 277; p. 421.

Barber, Harry E., Green Cove Springs, Fla., assignor, by mesne assignments, to The American Clearing Company, Hamilton, Ohio. Stump-pulling machine. No. 1,349,803; Aug. 17; v. 277; p. 451.

Barnes, Ira W., East Liverpool, Ohio. Rivet-cutter. No. 1,350,206; Aug. 17; v. 277; p. 529.

Barnhart, Mollie E. (See Freeman, Alpheus J., assignor.)

Barnum, Raymond. (See Wilson, Walter, assignor.)

Baron, Robert R., assignor of one-half to G. A. Hug, Indianapolis, Ind. Variable-speed device for cycles. No. 1,350,288; Aug. 17; v. 277; p. 544.

Barry, John E., Jr., Chicago, Ill. Electric-lamp support. No. 1,350,056; Aug. 17; v. 277; p. 500.

Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making lead arsenate. No. 1,349,707; Aug. 17; v. 277; p. 433.

Bartlett, Percy H., assignor of one-third to J. B. Seaman and one-third to B. Currier, Philadelphia, Pa. Indicating and testing supply switch-box. No. 1,349,651; Aug. 17; v. 277; p. 422.

Basset, Lucien P., Paris, France. Treating ores in blast-furnaces. No. 1,349,598; Aug. 17; v. 277; p. 412.

Bastian, Charles L., Chicago, Ill. Drum-valve. No. 1,349,748; Aug. 17; v. 277; p. 441.

Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,350,000; Aug. 17; v. 277; p. 489.

Baumann, Ferdinand P., Küsnacht, Switzerland, assignor, by mesne assignments, to G. H. Rein, New York, N. Y. Dry battery. (Reissue.) No. 14,929; Aug. 17; v. 277; p. 544.

Beach, Benson C., and J. H. Beeby, Ottawa, Ontario, Canada. Combined heating, cooking, and baking stove. No. 1,349,652; Aug. 17; v. 277; p. 422.

Beatty, Roland A., New York, N. Y. Clothes-sprinkler. No. 1,350,133; Aug. 17; v. 277; p. 514.

Beckwith, Charles E., deceased, Peoria, Ill.; M. L. Beckwith, administratrix. Automatic signaling device for trains. No. 1,349,708; Aug. 17; v. 277; p. 433.

Beckwith, Charles E., deceased, Peoria, Ill.; M. L. Beckwith, administratrix. Signaling mechanism for trains. No. 1,349,709; Aug. 17; v. 277; p. 433.

Beckwith, Mame L., administratrix. (See Beckwith, Charles E.)

Beeby, John H. (See Beach, B. C., and Beeby.)

Beer, Guido, *et al.*, executors. (See Salvati, Michele N.)

Beeson, Byron P., assignor of one-half to T. W. Mace, Sapulpa, Okla. Bookkeeper's work-table. No. 1,349,710; Aug. 17; v. 277; p. 434.

Bell, Frank B., Chicago Heights, Ill., assignor to Edgewater Steel Company, Pittsburgh, Pa. Rolling-mill. No. 1,350,057; Aug. 17; v. 277; p. 500.

Bell, John E., Brooklyn, assignor, by mesne assignments, to Foster Marine Boiler Corporation, New York, N. Y. Marine boiler. No. 1,349,869; Aug. 17; v. 277; p. 464.

Bell, William H., Mount Vernon, N. Y. System for indicating and recording orders. No. 1,349,555; Aug. 17; v. 277; p. 403.

Bellican, Robert P., Natchez, Miss. Gate closer and supporter. No. 1,350,134; Aug. 17; v. 277; p. 515.

Bender, John H., Kansas City, Mo. Card-holder. No. 1,349,935; Aug. 17; v. 277; p. 476.

Bendix, Frederick. (See Phelan, R., and Bendix.)

Benedict, James Z., Cedar Rapids, Iowa. Hand-cart. No. 1,350,058; Aug. 17; v. 277; p. 500.

Benner, Charles. (See Evits, C., and Benner.)
Bennett Injector Company. (See Wood, A. J., assignor.)
Benson, Jesse M., Concord, Tenn. Automobile steering mechanism. No. 1,349,653; Aug. 17; v. 277; p. 422.
Bentson, Hans J., La Jolla, Calif., assignor to F. C. Austin, Chicago, Ill. Trenching-machine. No. 1,349,936; Aug. 17; v. 277; p. 476.
Beran, Rud F. (See Kaspar, J., and Beran.)
Berg, Karl A. T., Högänäs, Sweden. Two-stroke-internal-combustion engine. No. 1,350,135; Aug. 17; v. 277; p. 515.
Bergen, John C., New Brunswick, N. J. Bag. No. 1,349,654; Aug. 17; v. 277; p. 422.
Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Uniting fabric-sections. No. 1,349,711; Aug. 17; v. 277; p. 434.
Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Uniting fabric sections. No. 1,349,712; Aug. 17; v. 277; p. 434.
Bernet, Joseph W., New London, Conn. Foot-operable-impression throw-off. No. 1,350,272; Aug. 17; v. 277; p. 541.
Berry, Frank, *et al.* (See Olney, Lillian B., assignor.)
Berry, Herbert H., and J. W. Reid, London, England. Electric fire. No. 1,349,804; Aug. 17; v. 277; p. 451.
Bickings, William A., Detroit, Mich. Puzzle. No. 1,349,937; Aug. 17; v. 277; p. 476.
Bierbower, Richard C., assignor to Testall Electric Manufacturing Co., San Antonio, Tex. Electrical testing device. No. 1,349,655; Aug. 17; v. 277; p. 423.
Bierbower, Richard C., assignor to Testall Electric Manufacturing Co., San Antonio, Tex. Electrical testing device. No. 1,349,656; Aug. 17; v. 277; p. 423.
Big Four Wheel Company. (See Jessen, Arnold H., assignor.)
Bijur, Joseph, assignor, by mesne assignments, to Bijur Motor Appliance Company, New York, N. Y. Electrical starting apparatus. No. 1,349,870; Aug. 17; v. 277; p. 464.
Bijur, Joseph, assignor, by mesne assignments, to Bijur Motor Appliance Company, New York, N. Y. Lubricating device for dynamos and the like. No. 1,349,871; Aug. 17; v. 277; p. 464.
Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)
Bijur Motor Appliance Company. (See Wolffsohn, Lionel M., assignor.)
Billings, Frank, Cleveland, Ohio. Loading-machine. No. 1,349,749; Aug. 17; v. 277; p. 441.
Billings, Harry E., assignor of one-half to C. J. Searle, Lead, S. D. Belt-buckle. No. 1,350,207; Aug. 17; v. 277; p. 529.
Billy, Paul, Linden, N. J. Life-protector. No. 1,350,136; Aug. 17; v. 277; p. 515.
Birch, Gustaf B. (See Cameron, J. A., and Birch.)
Blacker, William, Staleybridge, England. Mechanical or power actuated hammer. No. 1,349,939; Aug. 17; v. 277; p. 477.
Blackwell, Henry F., assignor of one-half to W. H. Strawn and one-half to M. A. Blackwell, New York, N. Y. Drilling device. No. 1,350,059; Aug. 17; v. 277; p. 500.
Blackwell, Maude A., *et al.* (See Blackwell, Henry F., assignor.)
Blair, Wesley W., Newtonville, Mass. Treating peat. No. 1,349,713; Aug. 17; v. 277; p. 434.
Blair, Wesley W., Newtonville, Mass. Treating peat. No. 1,349,714; Aug. 17; v. 277; p. 435.
Blake, Clinton F., Portland, Oreg. Luggage-rack. No. 1,349,938; Aug. 17; v. 277; p. 477.
Blattberg, Nathan, assignor of one-half to S. Lachs, New York, N. Y. Collar-button. No. 1,349,872; Aug. 17; v. 277; p. 465.
Blauser, Henry A., Pickerington, Ohio. Cultivator. No. 1,349,657; Aug. 17; v. 277; p. 423.
Blaw-Knox Company. (See Venable, William M., assignor.)
Bley, Herbert G., Waterloo, Iowa. Dirigible light. No. 1,349,658; Aug. 17; v. 277; p. 423.
Blomquist, Alfred L., Gowrie, Iowa. Towing device. No. 1,349,556; Aug. 17; v. 277; p. 403.
Bonney, Bick R., assignor to M. J. Foley and W. P. Monahan, Omaha, Nebr. Road-forming machine. No. 1,350,060; Aug. 17; v. 277; p. 500.
Booth, Charles W., Chicago, Ill. Golf-club. No. 1,349,805; Aug. 17; v. 277; p. 452.
Booth, Charles W., Chicago, Ill. Golf-club. No. 1,349,806; Aug. 17; v. 277; p. 452.
Bostock, Francis J. (See Brown, P., and Bostock.)
Boswell, George G. F., assignor of one-eighth to V. H. Lockwood and one-eighth to R. G. Lockwood, Indianapolis, Ind. Chain saw. No. 1,349,557; Aug. 17; v. 277; p. 404.
Bowers, Frank E., Indianapolis, Ind. Heating-stove. No. 1,350,061; Aug. 17; v. 277; p. 501.
Bowes, Walter H., Greenwich, Conn. Apparatus for sorting, postmarking, and canceling mail. No. 1,349,940; Aug. 17; v. 277; p. 477.
Bradbury, Clifford C., Oak Park, assignor to C. B. Camp, Oak Park, and L. A. Williams, Evanston, Ill., joint trustees. Carbureter. No. 1,350,001; Aug. 17; v. 277; p. 489.
Braese, John A., Mound, N. D. Resilient wheel. No. 1,349,599; Aug. 17; v. 277; p. 412.
Brandt, Lewis, Pittsburgh, Pa. Concrete construction. No. 1,349,600; Aug. 17; v. 277; p. 412.
Braun, Charles J. (See Janson, C. G., and Braun.)
Brewster, Guy O., Dover, N. J., assignor to G. O. Brewster and E. Heller. Bullet-proof armor. No. 1,350,062; Aug. 17; v. 277; p. 501.
Brewster, Guy O., *et al.* (See Brewster, Guy O., assignor.)
Briant, Walter J. (See Erb, C. J., and Briant.)
Brison, Theodore H., Sioux Falls, S. D. Reversible rain-water cut-off. No. 1,349,808; Aug. 17; v. 277; p. 452.
Bronnum, Marinus, South Pasadena, Calif. Bermuda-grass cutter. No. 1,349,809; Aug. 17; v. 277; p. 452.
Brooke, John N., Halifax, England. Evaporator. No. 1,349,810; Aug. 17; v. 277; p. 452.
Broome, William J., Los Angeles, Calif. Automobile-creeper. No. 1,349,941; Aug. 17; v. 277; p. 477.
Broshears, Gurley, Newburg, Ind. Adjustable line-supporting post. No. 1,350,208; Aug. 17; v. 277; p. 530.
Brown, Percy, and F. J. Bostock, Huddersfield, England. Worm-gearing. No. 1,349,811; Aug. 17; v. 277; p. 453.
Brown, Shepherd F., Malden, Mass. Knotter. No. 1,349,659; Aug. 17; v. 277; p. 423.
Brown Specialties Company. (See Schirra, Julius, assignor.)
Brussell, Harry. (See Wagman, E., and Brussell.)
Bryan, Elizabeth C. (See Miller, Albert W., assignor.)
Buckner, Harry L., Worcester, Mass., and E. Burke, Portland, Me. Waterproofing composition for fibrous materials. No. 1,349,601; Aug. 17; v. 277; p. 412.
Budd, George H., Salt Lake City, Utah. Dirigible headlight. No. 1,350,252; Aug. 17; v. 277; p. 537.
Buhl, G. A., Company, The. (See Stutzke, R. W. G., assignor.)
Buhl, G. A., Company, The. (See Zimmermann, Hans J., assignor.)
Buhl, William, assignor to Bulkrug Machine Corporation, Flushing, N. Y. Connection between piston-rod and crank-shaft. No. 1,349,660; Aug. 17; v. 277; p. 424.
Buhl, William, assignor to Bulkrug Machine Corporation, Flushing, N. Y. Camp. No. 1,349,661; Aug. 17; v. 277; p. 424.
Bulkrug Machine Corporation. (See Buhl, William, assignor.)
Burgoyne, Benjmin F., New Haven, Conn. Collar-holder. No. 1,350,063; Aug. 17; v. 277; p. 501.
Burke, Edmund. (See Buckner, H. L., and Burke.)
Burke, Herbert J., Essex, Ontario, Canada. Tractor-vehicle. No. 1,349,812; Aug. 17; v. 277; p. 453.
Burke & James. (See MacDowell, Glenn J., assignor.)
Burley, Gilderoy O., Newark, N. J. Dental separating or grinding disk. No. 1,350,002; Aug. 17; v. 277; p. 489.
Burnum, Starr H. (See Curry, Malcolm, assignor.)
Cadillac Motor Car Company. (See Sweet, Ernest E., assignor.)
Calmus, Harvey A., Pittsburgh, Pa. Hen-marker. No. 1,350,209; Aug. 17; v. 277; p. 530.
Calvert, Alan, Philadelphia, Pa. Reflecting device. No. 1,349,558; Aug. 17; v. 277; p. 404.
Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting and rewinding machine. No. 1,350,064; Aug. 17; v. 277; p. 501.
Cameron Machine Company. (See Cameron, J. A., and Birch, assignors.)
Cammack, James M., Brooklyn, N. Y. Automatic control-valve. No. 1,350,065; Aug. 17; v. 277; p. 502.
Cammack, James M., Brooklyn, N. Y. Radiator. No. 1,350,066; Aug. 17; v. 277; p. 502.
Camp, Curtis B., *et al.*, trustees. (See Pradbury, Clifford C., assignor.)
Canning, Martin J., Chicago, Ill. Fuse-plug. No. 1,350,210; Aug. 17; v. 277; p. 530.
Carlson, Charles J. (See Larson, L. M., and Carlson.)
Carr, Edward G., assignor to The Lakewood Engineering Company, Cleveland, Ohio. Material-transferring apparatus. No. 1,349,813; Aug. 17; v. 277; p. 453.
Carr, John H., Alhambra, Calif. Flying-machine. No. 1,349,942; Aug. 17; v. 277; p. 477.
Carr, Rimmon J., Petoskey, Mich. Crosstie. No. 1,349,814; Aug. 17; v. 277; p. 453.
Carroll, Emil J., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Electric controller. No. 1,350,003; Aug. 17; v. 277; p. 400.
Carter, James A., St. Louis, Mo. Wheel and axle construction. No. 1,349,559; Aug. 17; v. 277; p. 404.
Cary Manufacturing Company. (See Cary, S. C., and Ragona, assignors.)
Cary, Spence C., and V. Ragona, assignors to Cary Manufacturing Company, Brooklyn, N. Y. Means for binding shipping-packages. No. 1,350,137; Aug. 17; v. 277; p. 515.
Case, J. I., Threshing Machine Company. (See Dugan, Thomas, assignor.)
Cavaness, George K., Seymour, Iowa. Repair-clamp for automobile-running-board truss-rods. No. 1,350,253; Aug. 17; v. 277; p. 538.
Chicago Pneumatic Tool Company. (See Kinsman, Henry J., assignor.)
Chapin & Hollister Co. (See Lewis, Frederick W., assignor.)
Chase Companies, The. (See Recker, Adolph C., assignor.)

Chrisman, Horace, Edgewood, assignor to Pittsburgh Meter Company, East Pittsburgh, Pa. Tangent-post for gas-meters. No. 1,350,067; Aug. 17; v. 277; p. 502.
Christensen, Christen, assignor to General Electric Company, Schenectady, N. Y. Electric switch. No. 1,349,873; Aug. 17; v. 277; p. 465.
Christensen Machine Co. (See Christensen, Martin, assignor.)
Christensen, Martin, assignor to Christensen Machine Co., Racine, Wis. (Signature-fold-centering device. No. 1,349,662; Aug. 17; v. 277; p. 424.
Churchill, Frank H., *et al.* (See Sanders, John F., assignor.)
Ciselet, Edgard, and C. Deguide, Brussels, Belgium. Purification of distillation-gases of coal. No. 1,349,750; Aug. 17; v. 277; p. 442.
Clapp, E. H., Rubber Company. (See Pratt, William B., assignor.)
Clauss, Edward P., Lyons, N. Y. Cut-off and relief valve for air-brakes. No. 1,350,138; Aug. 17; v. 277; p. 515.
Cleveland, David P., assignor to Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Heating apparatus. No. 1,349,943; Aug. 17; v. 277; p. 477.
Cleveland, Edgar W., Holland, Mich., Journal adjustment for arms of multiple-spindle drills. No. 1,350,004; Aug. 17; v. 277; p. 490.
Cleveland Macaroni Company, The. (See Gammel, Karl, assignor.)
Cleveland Tractor Company, The. (See Strait, William, assignor.)
Clopton, William H., Washington, D. C. Screw-lock. No. 1,350,139; Aug. 17; v. 277; p. 516.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,349,815; Aug. 17; v. 277; p. 453.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,349,816; Aug. 17; v. 277; p. 453.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,349,817; Aug. 17; v. 277; p. 454.
Cobb, Henry Z., assignor to The Mechanical Rubber Company, New York, N. Y. Process and apparatus for producing a hollow rubber biscuit. No. 1,349,560; Aug. 17; v. 277; p. 404.
Cody, Harold B., Palm Springs, Calif. Pneumatic-tire-filling device. No. 1,350,068; Aug. 17; v. 277; p. 502.
Coffman, Joseph H., Americus, Ga. Automobile-cowl attachment. No. 1,349,715; Aug. 17; v. 277; p. 435.
Colburn Machine Tool Company. (See Head, Ernest C., assignor.)
Coles, Charles H., London, England. Electrical regulating-switch. No. 1,349,818; Aug. 17; v. 277; p. 454.
Coles, Walter H., Troy, Ohio. Lawn-sprinkling device. No. 1,349,874; Aug. 17; v. 277; p. 465.
Colmar Burner Company, The. (See Smith, Harry M., assignor.)
Colmar Burner Company, The. (See Yeager, Matthias S., assignor.)
Conerty, Patrick F. (See Litzinger, L. P., Conerty, and Snodgrass.)
Congdon, George A., Somerville, Mass. Slumber-wagon. No. 1,349,602; Aug. 17; v. 277; p. 412.
Conklin, Dewitt C., Mount Arlington, N. J. Heating-stove. No. 1,349,603; Aug. 17; v. 277; p. 413.
Cooley, Fred W., Minneapolis, Minn. Tone-modifier for talking-machines. No. 1,349,604; Aug. 17; v. 277; p. 413.
Cooper, Leslie J., Los Angeles, Calif. Auxiliary-spark-lever control. No. 1,349,944; Aug. 17; v. 277; p. 478.
Cope, Charles G., Pittsburgh, Pa. Auxiliary gripper. No. 1,350,140; Aug. 17; v. 277; p. 516.
Connor, Clyde O., assignor of one-half to D. Harr, Wichita, Kans. Power-driven hair-clipper. No. 1,350,005; Aug. 17; v. 277; p. 490.
Cook, Albert E., Chicago, Ill. Truck attachment for automobiles. No. 1,350,006; Aug. 17; v. 277; p. 490.
Corell, Clifton B., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,349,561; Aug. 17; v. 277; p. 404.
Corseplus, George W., Downey, Idaho. Sled-runner attachment for automobiles. No. 1,350,069; Aug. 17; v. 277; p. 502.
Corson, David, Jr., Mount Union, Pa. Sea-dirigible. No. 1,350,211; Aug. 17; v. 277; p. 530.
Coshow, Oliver P., *et al.* (See Sanders, John F., assignor.)
Couture, Josaphat, Hull, Quebec, Canada. Identification means. No. 1,350,070; Aug. 17; v. 277; p. 503.
Crisman, Charles A. (See Sharpnack, M. C., and Crisman.)
Crompton, Frank E., Brooklyn, assignor to Signature Company, New York, N. Y. Binder-board. No. 1,350,141; Aug. 17; v. 277; p. 516.
Cross, Harry N., Stockton, Calif. Dust-fuel carbureter. No. 1,349,751; Aug. 17; v. 277; p. 442.
Crown Maltose Company. (See Stutzke, Richard W. G., assignor.)
Cumfer, Harry A., Chicago, Ill. Pipe-fitting. No. 1,349,663; Aug. 17; v. 277; p. 424.
Cummings, Dickinson S. (See Pierce, John, Jr., assignor.)
Cunningham, Thomas, Philadelphia, Pa. Yarn-waxing device. No. 1,350,007; Aug. 17; v. 277; p. 490.
Cupp, Harry N., Mars, assignor of one-half to T. G. Monahan, Pittsburgh, Pa. Valve. No. 1,349,605; Aug. 17; v. 277; p. 413.
Currier, Burleigh, *et al.* (See Bartlett, Percy H., assignor.)
Currier, George A., St. Louis, Mo. Rotary plow. No. 1,349,875; Aug. 17; v. 277; p. 465.
Curry, Malcolm, Scarsdale, N. Y., assignor of one-half to S. H. Barnum, New Haven, Conn. Observation-window for furnaces. No. 1,349,562; Aug. 17; v. 277; p. 405.
Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Kleckler, Henry, assignor.)
Damon, William H., Los Angeles, Calif. Non-cumulative wax polish. (Reissue.) No. 14,930; Aug. 17; v. 277; p. 545.
Dandy, Mike, Burdine, Ky. Sanding device. No. 1,349,606; Aug. 17; v. 277; p. 413.
Datta, Rasik L., Calcutta, India. Manufacture of caffein. No. 1,350,092; Aug. 17; v. 277; p. 507.
Davidson, Harry O., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Concrete-form. No. 1,349,819; Aug. 17; v. 277; p. 454.
Davies, Llewellyn J., Twin Lakes, Colo. Multiple-wheel drive for tractors. No. 1,350,071; Aug. 17; v. 277; p. 503.
Davis, Charles B., *et al.* (See Tisdell, Frank J., assignor.)
Davis, Frank E., Bremerton, Wash. Shade for auto headlamps. No. 1,350,212; Aug. 17; v. 277; p. 530.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,350,093; Aug. 17; v. 277; p. 507.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Cam for looms. No. 1,350,094; Aug. 17; v. 277; p. 507.
Davis, Jacob, Cleveland, Ohio. Hanger or coupling. No. 1,350,008; Aug. 17; v. 277; p. 490.
Day, Charles T., Oceanport, N. J. Wire-stripper. No. 1,349,563; Aug. 17; v. 277; p. 405.
Dean, Charles L., Denver, Colo. Drying solutions. No. 1,350,072; Aug. 17; v. 277; p. 503.
Deaver, Luther C., Culberson, N. C. Railway-rail coupling. No. 1,349,607; Aug. 17; v. 277; p. 413.
De Brayer, Alfred, Paris, France. Machine for printing or reproducing addresses and other typed or written matter. No. 1,349,807; Aug. 17; v. 277; p. 452.
Deguide, Camille. (See Ciselet, E., and Deguide.)
Del Valle, Antonio M., New York, N. Y. Centrifugal clarifier. No. 1,350,009; Aug. 17; v. 277; p. 491.
Denton, John, and A. L. Skinner, Bridgeport, Ill. Gas-regulator. No. 1,349,945; Aug. 17; v. 277; p. 478.
Depue, Harold T., Kensington, Md. Combination-action for organs. No. 1,349,820; Aug. 17; v. 277; p. 454.
Désy, Louis A., Montreal, Quebec, Canada. Plowing-machine. No. 1,349,821; Aug. 17; v. 27; p. 454.
Detroit Pressed Steel Company. (See Peltier, August O., assignor.)
D'Humy, Fernand E., Englewood, N. J., assignor to Ramp Buildings Corporation, New York, N. Y. Storage-building. No. 1,349,664; Aug. 17; v. 277; p. 424.
Dickinson, Harry E., San Antonio, Tex. Adjustable split lock-nut or union. No. 1,350,142; Aug. 17; v. 277; p. 516.
Diebolt, Lewis T., Logansport, Ind. Lock. No. 1,350,213; Aug. 17; v. 277; p. 530.
Di Giacomo, Generoso, *et al.* (See Weigel, Philip A., assignor.)
Doble, Abner, assignor to Doble-Detroit Steam Motors Co., Detroit, Mich. Apparatus for burning fuel. No. 1,349,876; Aug. 17; v. 277; p. 465.
Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Liquid-fuel-ignition mechanism. No. 1,349,877; Aug. 17; v. 277; p. 465.
Doble-Detroit Steam Motors Company. (See Doble, Abner, assignor.)
Dodds, Ethan L., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,349,822; Aug. 17; v. 277; p. 454.
Donaldson, William H. L., St. Paul, Minn. Air-washer. No. 1,349,608; Aug. 17; v. 277; p. 414.
Donisthorpe, Frank W., Barnes, England. Color cinematography. No. 1,350,143; Aug. 17; v. 277; p. 516.
Donovan, Grover C., *et al.* (See Trapp, Charles L., assignor.)
Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Extraction and mixed-pressure turbine. No. 1,349,878; Aug. 17; v. 277; p. 466.
Douglass, Napoleon B., Berkeley, Calif. Folding bed. No. 1,349,946; Aug. 17; v. 277; p. 478.
Dow, Floyd, assignor of one-half to L. D. Edminster, Wyanet, Ill. Pipe structure. No. 1,350,073; Aug. 17; v. 277; p. 503.
Draper Corporation. (See Davis, Harry A., assignor.)
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Draper Corporation. (See Stone, Melvin L., assignor.)
Drozd, Kazimierz, Willock, Pa. Breast-drill. No. 1,350,144; Aug. 17; v. 277; p. 516.
Dubilier, William, New York, N. Y. Self-protecting condenser. No. 1,350,010; Aug. 17; v. 277; p. 491.
DuBois, Clarence L., Camden, N. J. Flexible-coupling disk. No. 1,350,011; Aug. 17; v. 277; p. 491.
Duffy, James P. B. (See Murphy, Thomas J., assignor.)
Dugan, Thomas, Wichita, Kans., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Harvester. No. 1,350,012; Aug. 17; v. 277; p. 491.

Duncombe, Joseph, Salt Lake City, Utah. Sheep-protector and coyote-exterminator. No. 1,349,665; Aug. 17; v. 277; p. 425.
Dupont, Francis M., and G. A. Hanke, Milwaukee, Wis. Making calcium oxalate. No. 1,349,947; Aug. 17; v. 277; p. 478.
Durant, Samuel E. (See Weeks, Helen, assignor.)
Dow Chemical Company, The. (See Barstow, Edwin O., assignor.)
Du Pont, E. I., de Nemours & Company. (See Flaherty, Edmund M., assignor.)
Du Pont Fabrikoid Company. (See Arnold, Charles E., assignor.)
Du Pont Fabrikoid Company. (See Lynch, James, assignor.)
Eaton, George C., Norwich, N. Y. Feeding device for poultry. No. 1,350,013; Aug. 17; v. 277; p. 491.
Echterling, Waldemar E., Crete township, Will county, Ill. Grain-elevator. No. 1,349,948; Aug. 17; v. 277; p. 478.
Eckerman, Charles W., Alameda, Calif. Shock-absorber for typewriting-machines. No. 1,350,014; Aug. 17; v. 277; p. 491.
Eddison, William B., Irvington, assignor to The Surface Combustion Co., Incorporated, New York, N. Y., Apparatus for unloading pumps. No. 1,350,095; Aug. 17; v. 277; p. 507.
Edgewater Steel Company. (See Bell, Frank B., assignor.)
Edminster, Llewellyn D. (See Dow, Floyd, assignor.)
Elmer, August, and W. T. Wiegand, assignors to Stuyvesant Glass Company, New York, N. Y. Stopcock. No. 1,349,823; Aug. 17; v. 277; p. 545.
Eisemann, Richard, Berlin, Germany. Device for regulating and maintaining constant the speed of motors. No. 1,350,214; Aug. 17; v. 277; p. 531.
Electron Chemical Company. (See Allen, H. I., and Fox, assignors.)
Ellert, Charles O., Brooklyn, N. Y. Hair-waver. No. 1,349,609; Aug. 17; v. 277; p. 414.
Elliot, William R., Riverhead, N. Y. Salt and pepper box. No. 1,349,716; Aug. 17; v. 277; p. 435.
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Ellis, Ferrand F., assignor to Oneida Community, Limited, Oneida, N. Y. Game-trap. No. 1,349,717; Aug. 17; v. 277; p. 435.
Erb, Cicero J., and W. J. Briant, Centralia, Wash. Railway-tie and fastener. No. 1,349,949; Aug. 17; v. 277; p. 479.
Erb, Clarence F., Youngstown, Ohio. Apparatus for recovering rubber from armored hose and the like. No. 1,349,752; Aug. 17; v. 277; p. 442.
Evensen, William M., assignor to Goss Printing Press Company, Chicago, Ill. Printing-plate clamp. No. 1,350,015; Aug. 17; v. 277; p. 492.
Evits, Charles, and C. Benner, Benton Harbor, Mich. Wrench. No. 1,349,564; Aug. 17; v. 277; p. 405.
Ewing, Arthur G. (See Ewing, Clyde T. and A. G.)
Ewing, Clyde T. and A. G., Los Angeles, Calif. Signal for indicating subnormal pressure in pneumatic tires. No. 1,350,016; Aug. 17; v. 277; p. 492.
Ewing, James A., Springdale, and E. J. McGowan, Tarentum, Pa. Plumb-bob. No. 1,349,565; Aug. 17; v. 277; p. 405.
Fairey, Charles R., Hayes, England. Controlling device for aeroplanes. No. 1,350,145; Aug. 17; v. 277; p. 517.
Feldman, Morris, Los Angeles, Calif. Clothes-rack. No. 1,350,017; Aug. 17; v. 277; p. 492.
Fenske, Paul J., Mart, Tex. Rail-joint. No. 1,350,215; Aug. 17; v. 277; p. 531.
Filkins, Arthur J., Chicago, Ill. Smoke-jack. No. 1,349,606; Aug. 17; v. 277; p. 425.
Firestone Tire & Rubber Company, The. (See Maranville, Harvey F., assignor.)
Fischer, Ernst G., Washington, D. C. Sounding apparatus. No. 1,349,718; Aug. 17; v. 277; p. 435.
Fischer, George F., Rochester, N. Y. Shoe-heel. No. 1,350,216; Aug. 17; v. 277; p. 531.
Fischer, Howard L., and F. J. Kristofek, St. Paul, Minn. Pencil. No. 1,349,950; Aug. 17; v. 277; p. 479.
Fisher, Benjamin K., St. Louis, Mo. Protractor. No. 1,350,273; Aug. 17; v. 277; p. 542.
Fisher, George E., Honolulu, Hawaii. Pineapple-meat eradicator. No. 1,350,096; Aug. 17; v. 277; p. 507.
Fisher, Milan H. (See Herlihy, D., and Fisher.)
Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Flaherty, Edmund M., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making photographic films. No. 1,350,274; Aug. 17; v. 277; p. 542.
Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
Franc, Joseph M. E., St. Vallier, France. Lubricating device for leaf-springs. No. 1,350,217; Aug. 17; v. 277; p. 531.
Frankforter, George B., Minneapolis, Minn. Absolute alcohol and making same. No. 1,350,254; Aug. 17; v. 277; p. 538.
Fremaux, Edward C., Rayne, La. Record-cabinet. No. 1,350,146; Aug. 17; v. 277; p. 517.
Fletcher, Henry P. (See Kellerman, Henry Ralph, assignor.)
Flint & Walling Manufacturing Company. (See Macomber, Herbert H., assignor.)
Foley, Michael J., *et al.* (See Bonney, Bick R., assignor.)
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Tabulating mechanism. No. 1,349,824; Aug. 17; v. 277; p. 455.
Foster Marine Boiler Corporation. (See Bell, John E., assignor.)
Fowler, Fannie A., administratrix. (See Fowler, Nathaniel C., Jr.)
Fowler, Nathaniel C., Jr., deceased, Boston, Mass.; F. A. Fowler, administratrix. Food product. No. 1,349,753; Aug. 17; v. 277; p. 442.
Fox, Elmer E., Massillon, Ohio. Railway-tie. No. 1,349,754; Aug. 17; v. 277; p. 442.
Fox, Kent R. (See Allen, H. I., and Fox.)
Frankfurt, Sophie, assignor to Maher & Kassler, New York, N. Y. Skirt. No. 1,349,879; Aug. 17; v. 277; p. 466.
Franklin, Gustave A. (See Shackleford, A. E., and Franklin.)
Franklin Valveless Engine Company. (See Sheasley, Charles H., assignor.)
Freeman, Alpheus J., assignor to M. E. Barnhart, Chicago, Ill. Collar-button. No. 1,349,825; Aug. 17; v. 277; p. 455.
Freyssinet, Eugène, assignor to Societe des Navires en Ciment Armé, Paris, France. Molding concrete ships. No. 1,349,826; Aug. 17; v. 277; p. 455.
Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Lamp-holder. No. 1,349,566; Aug. 17; v. 277; p. 405.
Fuller, Eugene, Providence, R. I. Lacing-tip. No. 1,349,827; Aug. 17; v. 277; p. 455.
Gafinowitz, Goodman, Burlington, Vt. Identification device. No. 1,350,275; Aug. 17; v. 277; p. 542.
Galbraith, Joseph E., New York, N. Y. Window attachment. No. 1,350,147; Aug. 17; v. 277; p. 517.
Gammel, Karl, assignor to The Cleveland Macaroni Company, Cleveland, Ohio. Cooking utensil. No. 1,349,567; Aug. 17; v. 277; p. 405.
Gammel, Karl, Cleveland, Ohio. Drying macaroni and other edible pastes. No. 1,349,568; Aug. 17; v. 277; p. 406.
Garami, Joseph, Newark, N. J. Coin changing and delivering machine. No. 1,350,148; Aug. 17; v. 277; p. 518.
Gardiner, Lou M., assignor to The Iron Horse Tractor Company, San Francisco, Calif. Transmission-gearing. No. 1,349,719; Aug. 17; v. 27; p. 436.
Garrison, Perry J., assignor of one-half to W. Reed, Oxford, Mich. Combined muffler, vaporizer, and mixing-chamber for gas-engines. No. 1,349,755; Aug. 17; v. 277; p. 442.
Geier, P. A., Company, The. (See Geier, P. A., and Robertson, assignors.)
Geier, Philip A., and F. E. Robertson, assignors to The P. A. Geier Company, Cleveland, Ohio. Handle-member. No. 1,349,828; Aug. 17; v. 277; p. 456.
General Electric Company. (See Christensen, Christen, assignor.)
General Electric Company. (See Doran, John H., assignor.)
General Electric Company. (See Junggren, Oscar, assignor.)
General Electric Company. (See Langmuir, Irving, assignor.)
General Electric Company. (See Parsons, Robert J., assignor.)
General Electric Company. (See Priest, Edward D., assignor.)
General Electric Company. (See Stearns, Ralph W., assignor.)
Gerard, William B., *et al.* (See Litchfield, Charles T., assignor.)
Gerber, Viktor, Zurich, Switzerland. Producing nitrid of aluminium from materials containing aluminic oxid. No. 1,350,149; Aug. 17; v. 277; p. 518.
Gerber, Viktor, Zurich, Switzerland. Producing aluminium from aluminic oxid. No. 1,350,150; Aug. 17; v. 277; p. 518.
Gerfin, George P., and M. Mauran, Niagara Falls, N. Y., assignors to the Nitrogen Corporation, Providence, R. I. Forming a mixture of hydrogen and nitrogen for ammonia synthesis. No. 1,349,756; Aug. 17; v. 277; p. 443.
Gibbs, Alfred J., Hay Springs, Nebr. Push-rake. No. 1,350,218; Aug. 17; v. 277; p. 531.
Gibbs, Robert, Portland, Oreg. Skirt-hanger. No. 1,350,219; Aug. 17; v. 277; p. 531.
Gibney, James W., assignor to W. P. Taylor Company, Buffalo, N. Y. Cover for service-boxes. No. 1,349,610; Aug. 17; v. 277; p. 414.
Gibson, William, Liverpool, England. Pattern for making molds in which metals are cast. No. 1,349,829; Aug. 17; v. 277; p. 456.
Gill, Charles H., Chicago, Ill. Governor for motors. No. 1,350,018; Aug. 17; v. 277; p. 492.
Gilles, Pierre P., Springfield, Mass. Vacuum-feed carbureter. No. 1,350,151; Aug. 17; v. 277; p. 518.
Gillette Safety Razor Company. (See Parker, Riley H., assignor.)

Gleason, James E., and A. L. Stewart, assignors to Gleason Works, Rochester, N. Y. Method of and machine for cutting gears or wheels. No. 1,349,951; Aug. 17; v. 277; p. 479.
Gleason Works. (See Gleason, J. E., and Stewart, assignors.)
Glover, Frank B., Brooklyn, N. Y. Work-holder. No. 1,350,097; Aug. 17; v. 277; p. 507.
Gogolinski, John A., Drissa, Russia. Pump. No. 1,349,667; Aug. 17; v. 277; p. 425.
Gohr, Louis W., *et al.* (See Trapp, Charles L., assignor.)
Gold, Egbert H., Chicago, Ill. Gasket for train-pipe couplings. No. 1,350,074; Aug. 17; v. 277; p. 503.
Goldstein, Hyman, Brooklyn, N. Y. Bottle-closure. No. 1,349,830; Aug. 17; v. 277; p. 456.
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Heating apparatus. No. 1,349,668; Aug. 17; v. 277; p. 425.
Goodyear's India Rubber Glove Manufacturing Company. (See Hubbell, Clarence W., assignor.)
Gorsuch, George J., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning means for upper-forming machines. No. 1,349,669; Aug. 17; v. 277; p. 426.
Goss Printing Press Company. (See Evensen, William M., assignor.)
Gould, Edwin J., Oakland, Calif. Differential lock and reversing mechanism. No. 1,350,276; Aug. 17; v. 277; p. 542.
Gove, Henry H., assignor to Gove Motor Company, Biddeford, Me. Carbon shearing and compression device for internal-combustion engines. No. 1,349,757; Aug. 17; v. 277; p. 443.
Gove Motor Company. (See Gove, Henry H., assignor.)
Graham, Edward, Saginaw, Mich. Land-torpedo. No. 1,350,220; Aug. 17; v. 277; p. 532.
Gramer, Walter W., Marinette, Wis. Testing apparatus. No. 1,349,831; Aug. 17; v. 277; p. 456.
Graves, Robert E., Houston, Tex. Dental handpiece. No. 1,349,832; Aug. 17; v. 277; p. 456.
Gray, James A., assignor to American Can Company, San Francisco, Calif. Can-end-feed mechanism. No. 1,349,833; Aug. 17; v. 277; p. 457.
Green, Orren J., Afton, N. Y. Folding cot. No. 1,350,152; Aug. 17; v. 277; p. 518.
Gregory, Eli E., Lewisport, Ky., assignor to Rangefinding Sight Company, New York, N. Y. Gun-sight. No. 1,350,153; Aug. 17; v. 277; p. 518.
Gregory & Read Co., *et al.* (See Tisdell, Frank J., assignor.)
Griffin, Asa A. H., Butler, Pa. Combined bracket and clamp. No. 1,350,221; Aug. 17; v. 277; p. 532.
Grondahl, Lars O., Pittsburgh, Pa., and A. H. Pfund, Baltimore, Md. Cover for headlights. No. 1,350,277; Aug. 17; v. 277; p. 542.
Gronseth, Luther E., Duluth, Minn. Check-writer. No. 1,349,880; Aug. 17; v. 277; p. 466.
Gruver, George F. (See Streibich, J. C., and Gruver.)
Gumbel, Edward, *et al.* (See Weigel, Philip A., assignor.)
Hall, Edward T., *et al.* (See Hall, James L., assignor.)
Hall, Elbert J., Berkeley, Calif. Propeller-mounting. No. 1,349,758; Aug. 17; v. 277; p. 443.
Hall, James L., Beaumont, assignor of one per cent. to V. O. Holland, Clay, one per cent. to O. Hunt, Somerville, Tex., and two per cent. to E. T. Hall, Atlanta, Ga. Cuff-link. No. 1,350,222; Aug. 17; v. 277; p. 532.
Halloway, William M., Maywood, Ill., assignor to American Can Company, New York, N. Y. Talking-machine. No. 1,349,759; Aug. 17; v. 277; p. 443.
Hamilton, Eddie H., Washington, D. C. Plate-fastening device. No. 1,350,223; Aug. 17; v. 277; p. 532.
Hamilton, Harold L., Fargo, N. D. Sand-separating apparatus. No. 1,350,154; Aug. 17; v. 277; p. 519.
Hammond, Frank S., New York, N. Y. Internal-combustion engine. No. 1,349,952; Aug. 17; v. 277; p. 479.
Hancock, George L., Geneva, N. Y. Dumping-vehicle. No. 1,349,760; Aug. 17; v. 277; p. 443.
Hanke, Gustav A. (See Dupont, F. M., and Hanke.)
Hanson, Harry, Watertown, assignor to Select Service Company, Boston, Mass. Coin-controlled vending-machine. No. 1,349,953; Aug. 17; v. 277; p. 479.
Harkness, John, Ayr, Scotland. Building structure. No. 1,350,019; Aug. 17; v. 277; p. 492.
Harmon, Frank L., Beverly, Mass., assignor to Singer Manufacturing Company, Elizabeth, N. J. Eyeleting-machine. (Reissue.) No. 14,931; Aug. 17; v. 277; p. 545.
Harmon, Frank L., Beverly, Mass., assignor to Singer Manufacturing Company, Elizabeth, N. J. Duplex Eyeleter. (Reissue.) No. 14,932; Aug. 17; v. 277; p. 546.
Harr, Dean. (See Connor, Clyde O., assignor.)
Hart, Franklin H., New Haven, Conn. Curtain-fastener. No. 1,349,569; Aug. 17; v. 277; p. 406.
Hartford, Edward V., Deal, N. J. Electrothermostatic-controlled mechanism. No. 1,349,954; Aug. 17; v. 277; p. 480.
Hartzell, Amos F., Knoxville borough, assignor to Standard Oven Company, Pittsburgh, Pa. Manufacture of baked goods. No. 1,350,278; Aug. 17; v. 277; p. 543.
Harwood, John, Berea, Ky., assignor of one-half to J. D. McColm, Huntington, W. Va. Producing duplicate patterns in granite. No. 1,349,955; Aug. 17; v. 277; p. 480.
Hatt, Joseph A. H., Brooklyn, N. Y. Color-filter negative and preparing same. No. 1,349,956; Aug. 17; v. 277; p. 480.
Haun, Earl G., Marion, Ind. Sunken-boat detector. No. 1,350,224; Aug. 17; v. 277; p. 532.
Hawkins, Alda F., Fort Worth, Tex. Battery-terminal fastening. No. 1,349,957; Aug. 17; v. 277; p. 480.
Hay, Marley F., The Hague, Netherlands. Sighting instrument. No. 1,350,225; Aug. 17; v. 277; p. 532.
Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Interchangeable positive and friction drive and reversible gearing for machine-tools. No. 1,349,958; Aug. 17; v. 277; p. 481.
Heath, Harry C., San Francisco, Calif. Lubricator. No. 1,350,075; Aug. 17; v. 277; p. 503.
Heatly, Gail H., Mangum, Okla. Union-garment. No. 1,350,020; Aug. 17; v. 277; p. 493.
Heller, Emil, *et al.* (See Brewster, Guy O., assignor.)
Hellweg, Rudolph F., El Paso, Tex. Bed. No. 1,350,155; Aug. 17; v. 277; p. 519.
Helwig, Herman H., assignor to Pivot Button Company, Inc., Philadelphia, Pa. Button. No. 1,349,761; Aug. 17; v. 277; p. 443.
Hemleb, Martin. (See Kopf, E. A., and Hemleb.)
Herlihy, Daniel, and M. H. Fisher, Chicago, Ill.; said Fisher assignor to said Herlihy. Wrench. No. 1,349,762; Aug. 17; v. 277; p. 444.
Herrick, Henry N., Bakersfield, Calif. Apparatus for separating solids from liquids. No. 1,349,881; Aug. 17; v. 277; p. 466.
Herrmann, Frederick G. (See Mevers, Charles W., and Herrmann.)
Hessey, John L., Philadelphia, Pa. Mixing-knife. No. 1,350,098; Aug. 17; v. 277; p. 508.
Hewey, Peleg T., Malden, Mass. Knockdown tool-box. No. 1,350,099; Aug. 17; v. 277; p. 508.
Hill, Cortland L., *et al.* (See Anderson, Chester H., assignor.)
Hoblitt, Frederic M., New York, N. Y. Vehicle-body. No. 1,349,959; Aug. 17; v. 277; p. 481.
Hoepner, George, Chicago, Ill. Machine for mixing powdered or granular materials. No. 1,349,960; Aug. 17; v. 277; p. 481.
Hoffay, Joseph, New York, N. Y. Phonograph-control. No. 1,349,763; Aug. 17; v. 277; p. 444.
Hoffman, Ray, Newport, Ky., assignor to National Marking Machine Company, Cincinnati, Ohio. Laundry-marking clip. No. 1,349,570; Aug. 17; v. 277; p. 406.
Hofstetter, Charles, Peoria, Ill. Ventilator. No. 1,349,764; Aug. 17; v. 277; p. 444.
Hogan, John L., Jr., assignor, by mesne assignments, to International Radio Telegraph Company, Brooklyn, N. Y. Radiosignaling. No. 1,350,100; Aug. 17; v. 277; p. 508.
Holland, Van O., *et al.* (See Hall, James L., assignor.)
Holliday, Jeremiah R., Winnsboro, S. C. Chair. No. 1,350,021; Aug. 17; v. 277; p. 493.
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Hollister, William C., Chicago, Ill. Ruled linotype-form and means for producing same. No. 1,349,720; Aug. 17; v. 277; p. 436.
Holmes, Edward, St. Louis, Mo. Sign character. No. 1,349,670; Aug. 17; v. 277; p. 426.
Homan, Frank W., Philadelphia, Pa. Turned shoe. No. 1,350,156; Aug. 17; v. 277; p. 519.
Homan, Walter A., Denver, Colo. Rotary engine. No. 1,349,882; Aug. 17; v. 277; p. 466.
Honsinger, Ornan A., Tacoma, Wash. Folding davenport-bed. No. 1,349,883; Aug. 17; v. 277; p. 467.
Hoover, Herbert W., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Method of and apparatus for protecting the bearings of suction-cleaners. No. 1,349,765; Aug. 17; v. 277; p. 445.
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Hopkins, Frank H., Somerville, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Diaphragm-gage. No. 1,349,884; Aug. 17; v. 277; p. 467.
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Hopkinson, Ernest, New York, N. Y. Apparatus for use in vulcanizing pneumatic-tire casings for vehicles. No. 1,349,721; Aug. 17; v. 277; p. 436.
Horton, Frederick W., Hackensack, N. J. Treating celluloid products. No. 1,350,157; Aug. 17; v. 277; p. 519.
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Howe, Paul J., Ridgewood, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Adjustable condenser. No. 1,350,279; Aug. 17; v. 277; p. 543.
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Hubbard, Norman, Elizabeth, N. J., assignor of one-half to P. M. Stewart, New York, N. Y. Water-heater. No. 1,349,571; Aug. 17; v. 277; p. 406.

Hubbell, Clarence W., Naugatuck, Conn., assignor to The Goodyear's India Rubber Glove Manufacturing Company. Boot. No. 1,349,572; Aug. 17; v. 277; p. 406.
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Hultin, Enoch P., Flint, Mich. Pump for inflating pneumatic tires. No. 1,349,671; Aug. 17; v. 277; p. 426.
Humphrey, Starling H. (See Korff, F. H., and Humphrey.)
Humphrey, Starling H., New York, and F. H. Korff, Brooklyn, N. Y. Expansion-reamer. No. 1,349,968; Aug. 17; v. 277; p. 483.
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Hurlburt, Edward N., assignor to Taylor Instrument Companies, Rochester, N. Y. Metastatic thermometer. No. 1,350,158; Aug. 17; v. 277; p. 519.
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Hyatt, Frank S., Brooklyn, N. Y. Vanity-box. No. 1,349,673; Aug. 17; v. 277; p. 426.
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Ihnat, Michael, Detroit, Mich. Railway safety appliance. No. 1,349,834; Aug. 17; v. 277; p. 457.
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Iron Horse Tractor Company, The. (See Gardiner, Lon M., assignor.)
Ivory, James W., Philadelphia, Pa. Rubber-dam-clamp forceps. No. 1,349,767; Aug. 17; v. 277; p. 445.
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Jackson, George B., Chicago, Ill. Radiator and process of and apparatus for producing same. No. 1,350,022; Aug. 17; v. 277; p. 493.
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Jagger, Frank and R. C., Oldham, England. Musical wind instrument. No. 1,349,722; Aug. 17; v. 277; p. 436.
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Janson, Carl G., and C. J. Braun, Oakland, Calif. Bunk. No. 1,349,962; Aug. 17; v. 277; p. 482.
Jaques, Fernando O., Sr., assignor to F. O. Jaques, Jr., Providence, R. I. Micrometer-caliper. No. 1,349,612; Aug. 17; v. 277; p. 414.
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Jennings, John T., Birmingham, England. Carbureter. No. 1,349,835; Aug. 17; v. 277; p. 457.
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Jessen, Arnold H., assignor to Big Four Wheel Company, Los Angeles, Calif. Variable-speed device. No. 1,350,255; Aug. 17; v. 277; p. 538.
Johanson, Gustaf E., Sundsvall, Sweden. Sorting device for sawn wood. No. 1,349,836; Aug. 17; v. 277; p. 457.
Johnson, Albert E., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,349,723; Aug. 17; v. 277; p. 436.
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Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Double seamer. No. 1,349,837; Aug. 17; v. 277; p. 457.
Johnson, Edward P., Chicago, Ill. Mechanical movement. No. 1,349,724; Aug. 17; v. 277; p. 436.
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Johnson, Sven A., Brooklyn, N. Y. Air-compressor. No. 1,350,159; Aug. 17; v. 277; p. 519.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Bolt-action firearm. No. 1,349,675; Aug. 17; v. 277; p. 427.
Jones, Sidney P., Waco, Tex. Rotary razor. No. 1,350,227; Aug. 17; v. 277; p. 533.
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Jutkins, Edgar M., La Junta, Colo. Sash construction. No. 1,349,887; Aug. 17; v. 277; p. 467.
Kahn, Herman, Chicago, Ill. Changeable sign. No. 1,349,769; Aug. 17; v. 277; p. 445.
Kaiser, Alfred E., assignor to Specialty Manufacturing Company, Seattle, Wash. Photographic-printing machine. No. 1,350,256; Aug. 17; v. 277; p. 538.
Kalbfus, Oliver A., Baltimore, Md. Vacuum-cleaning machine. No. 1,349,964; Aug. 17; v. 277; p. 482.
Kasbohm, William F., Van Wert, Ohio. Sectional casing for furnaces. No. 1,350,257; Aug. 17; v. 277; p. 538.
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Kay, Arethusa, *et al.* (See Kay, Samuel P., assignor.)
Kay, Samuel P., assignor of one-third to R. P. Wolf, one-third to A. K. Rownd, and one-third to A. Kay, Rochester, N. Y. Tool for setting the teeth of circular saws. No. 1,349,614; Aug. 17; v. 277; p. 415.
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Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Wing construction for flying-machines. No. 1,349,770; Aug. 17; v. 277; p. 445.
Keller, John G., assignor to The Vilter Manufacturing Company, Milwaukee, Wis. Plate-valve construction. No. 1,350,101; Aug. 17; v. 277; p. 508.
Kellerman, Henry R., assignor of one-half to H. P. Fletcher, Sydney, New South Wales, Australia. Latch for doors, gates, and the like. No. 1,350,258; Aug. 17; v. 277; p. 539.
Kelley, William V. D., Brooklyn, and J. Mason, New York, N. Y., assignor, by mesne assignments, to Prizma Incorporated. Photographic printing. No. 1,350,023; Aug. 17; v. 277; p. 493.
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Kermode, Elmer G., Cleveland, Ohio. Electric switch. No. 1,349,573; Aug. 17; v. 277; p. 407.
Kidwell, Edgar, Milwaukee, Wis. Baffle for water-tube boilers. No. 1,349,574; Aug. 17; v. 277; p. 407.
Kilmer, Otto H., and P. Madison, Oak Harbor, Ohio. Basket-nailing machine. No. 1,349,965; Aug. 17; v. 277; p. 482.
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Kimman, Henry J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Throttle-valve for fluid-pressure tools. No. 1,350,102; Aug. 17; v. 277; p. 508.
Kinback, William J., Bethlehem, Pa. Water-motor. No. 1,350,025; Aug. 17; v. 277; p. 494.
Kingsbury, Edward J., Keene, N. H. Toy tractor. No. 1,350,026; Aug. 17; v. 277; p. 494.
Klein, Jozef, New York, N. Y. Brazing and welding compound and preparing same. No. 1,349,966; Aug. 17; v. 277; p. 483.
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Kirkham, Charles B., assignor to Curtiss Aeroplane and Motor Corporation, Garden City, N. Y. Lubrication of internal-combustion engines. No. 1,349,676; Aug. 17; v. 277; p. 427.
Klaiber, Maximilian, Brooklyn, N. Y., assignor to Auto Slyde & Moving Picture Machine Co., Inc. Stereoptican apparatus. No. 1,349,725; Aug. 17; v. 277; p. 437.
Kleckler, Henry, Garden City, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Strut-fitting. No. 1,349,677; Aug. 17; v. 277; p. 427.
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Kline, Robert, Cleveland, Ohio. Dish-drainer. No. 1,349,771; Aug. 17; v. 277; p. 445.
Koch, William J., La Crosse, Wis. Shield for button-cutters' shell-tongs. No. 1,349,889; Aug. 17; v. 277; p. 468.
Koellhoffer, Bernard, Newark, N. J. Game. No. 1,349,615; Aug. 17; v. 277; p. 415.
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Kopf, Emil A., Newark, and M. Hemleb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine cabinet. No. 1,349,679; Aug. 17; v. 277; p. 427.
Korff, Frederick H., Brooklyn, and S. H. Humphrey, New York, N. Y. Adjustable cutter. No. 1,349,967; Aug. 17; v. 277; p. 483.
Kottman, Josephine C., Brooklyn, N. Y. Grater attachment. No. 1,349,616; Aug. 17; v. 277; p. 415.
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Kruse, Ferdinand, New York, N. Y. Meat-presser. No. 1,350,161; Aug. 17; v. 277; p. 520.
Kruse, Ferdinand, New York, N. Y. Attachment for slicing-machines. No. 1,350,162; Aug. 17; v. 277; p. 520.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,890; Aug. 17; v. 277; p. 468.
Kusutani, Gikichi, Seattle, Wash. Tree-sawing machine. No. 1,349,772; Aug. 17; v. 277; p. 445.
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Lachmann, Edgare S., Chicago, Ill. Metal fencepost. No. 1,349,575; Aug. 17; v. 277; p. 407.
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La Ganke, Hugo C., assignor to The Osborn Crew Manufacturing Company, Cleveland, Ohio. Pulley. No. 1,349,618; Aug. 17; v. 277; p. 416.
Lake, David, Cleveland, Ohio, assignor to The L. & H. Clutch Co., Norristown, Pa. Clutch. (Reissue.) No. 14,933; Aug. 17; v. 277; p. 547.
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La Mere, Robert S., Dresser Junction, Wis. Railway-signal. No. 1,349,773; Aug. 17; v. 277; p. 446.
Lane, Alfred M., assignor to Monarch Metal Products Company, St. Louis, Mo. Metal window-screen. No. 1,350,027; Aug. 17; v. 277; p. 494.
Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Method of and means for obtaining constant direct currents or potentials. No. 1,349,892; Aug. 17; v. 277; p. 468.
Larson, Leonard M., and C. J. Carlson, Tacoma, Wash. Clothes-tongs. No. 1,350,028; Aug. 17; v. 277; p. 494.
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Lay, William P., Gadsden, Ala. Marine vessel. No. 1,350,259; Aug. 17; v. 277; p. 539.
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Leathers, Ward G., Haworth, N. J., assignor to Submarine Arms Corporation, New York, N. Y. Power generation. No. 1,349,969; Aug. 17; v. 277; p. 483.
Lee, Albert P., assignor to Lee Loader & Body Company, Chicago, Ill. Rail construction for rolling hoppers. No. 1,349,838; Aug. 17; v. 277; p. 458.
Lee, Charles O., Modesto, Calif. Irrigation-tile. No. 1,350,229; Aug. 17; v. 277; p. 533.
Lee, Fred S., Vanlue, Ohio. Crank-shaft for internal-combustion engines. No. 1,349,893; Aug. 17; v. 277; p. 468.
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Lehmann, Gotthilf, New York, N. Y. Toy. No. 1,350,103; Aug. 17; v. 277; p. 509.
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Lenerville, Clifford H., Peshtigo, Wis. Automatic phonograph-stop. No. 1,349,970; Aug. 17; v. 277; p. 483.
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Levin, Jacob, Springfield, Mass. Machine for extracting juice from fruit. No. 1,349,839; Aug. 17; v. 277; p. 458.
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Link, Anton, Chicago, Ill. Mop. No. 1,349,680; Aug. 17; v. 277; p. 428.
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Lockwood, Virgil H., *et al.* (See Boswell, George G. F., assignor.)
Loichot, Paul F., Louisville, Ohio. Meat-grinder. No. 1,350,164; Aug. 17; v. 277; p. 520.
Long, Albert R., Ballston, Va. Two-cycle rotary-cylinder internal-combustion engine. No. 1,350,260; Aug. 17; v. 277; p. 539.
Lopez, Bruno, San Antonio, Tex. Roller-distributer. No. 1,349,726; Aug. 17; v. 277; p. 437.
Lord, James H., Methuen, Mass. Roof attachment. No. 1,349,894; Aug. 17; v. 277; p. 469.
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Loughery, Joseph F., Philadelphia, Pa. Multicolor-printing machine. No. 1,349,895; Aug. 17; v. 277; p. 469.
Lowe, Harry W., assignor, by mesne assignments, to Sprague Canning Machinery Co., Omaha, Nebr. Exhauster. No. 1,350,104; Aug. 17; v. 277; p. 509.
Luck, Emil, Clara City, Minn. Nut-lock. No. 1,350,165; Aug. 17; v. 277; p. 521.
Luedke, August J., assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Trough and producing same. No. 1,349,841; Aug. 17; v. 277; p. 458.
Lund, Gustav A., Stillwater, Minn. Padlock. No. 1,349,682; Aug. 17; v. 277; p. 428.
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Lynah, James, Newburgh, N. Y., assignor to du Pont Fabrikoid Company, Wilmington, Del. Producing artificial leather and product thereof. No. 1,350,281; Aug. 17; v. 277; p. 543.
Lyon, Fred M., Pontiac, Ill. Corn-grinder. No. 1,350,261; Aug. 17; v. 277; p. 539.
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McCready, Charles T., Onley, Va. Vine turner and lifter. No. 1,349,896; Aug. 17; v. 277; p. 469.
McCullar, W. A., and J. J. Ayraud, Beaumont, Tex. Pipe-coupling. No. 1,350,078; Aug. 17; v. 277; p. 504.
McDaniel, Guy S., Smyrna, assignor of one-half to E. H. Kimbell, Atlanta, Ga. Treating fibrous vegetable material and resulting product. No. 1,350,031; Aug. 17; v. 277; p. 495.
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McIntosh, James A., assignor, by mesne assignments, to Standard Tool & Manufacturing Company, Detroit, Mich. Channel-tubing. No. 1,349,684; Aug. 17; v. 277; p. 429.
McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Oil-can holder. No. 1,349,842; Aug. 17; v. 277; p. 458.
McMillan, Angus, San Francisco, Calif. Band-saw-filing machine. No. 1,349,685; Aug. 17; v. 277; p. 429.
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Mackintosh, Alexander L., Denver, Colo., assignor of one-half to D. R. Riddick, Rawlins, Wyo. Educational toy. No. 1,349,776; Aug. 17; v. 277; p. 446.
Macomber, Herbert H., assignor to Flint & Walling Mfg. Co., Kendallville, Ind. Pressure-regulator. No. 1,349,843; Aug. 17; v. 277; p. 459.
Madden, Harry D., assignor to Westinghouse Lamp Company, Irvington, N. J. Manufacture of incandescent electric lamps. No. 1,349,686; Aug. 17; v. 277; p. 429.
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Maher & Kassler. (See Frankfurt, Sophie, assignor.)
Makowski, John F., assignor of one-half to J. A. Levensaler, San Francisco, Calif. Machine for fabricating plaster board. No. 1,349,777; Aug. 17; v. 277; p. 446.
Makowski, John F., assignor of one-half to J. A. Levensaler, San Francisco, Calif. Wall-board and manufacturing same. No. 1,349,778; Aug. 17; v. 277; p. 447.
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Maranville, Harvey F., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Rubber-mold. No. 1,350,105; Aug. 17; v. 277; p. 509.
Marble, Webster I., Gladstone, Mich. Recoil-pad for fire-arms. No. 1,349,779; Aug. 17; v. 277; p. 447.
Markham, Charles M., Milwaukee, Wis. Adjustable jack or shore. No. 1,349,576; Aug. 17; v. 277; p. 407.
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Marquette, Melvon A., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Reinforcement for tire-beads. No. 1,349,898; Aug. 17; v. 277; p. 469.
Marr, John W., Newport Beach, Calif. Auto-theft signal. No. 1,350,032; Aug. 17; v. 277; p. 495.
Martinoicz, Adolph, Muskegon, Mich. Rotary-motion mechanism. No. 1,350,106; Aug. 17; v. 277; p. 509.
Martos, Miguel M., Mexico, Mexico. Cardboard-box. No. 1,349,780; Aug. 17; v. 277; p. 447.
Marvin, Sylvester S., Bryn Mawr, and W. Munz, Philadelphia, assignors to Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate and candy machine. No. 1,349,844; Aug. 17; v. 277; p. 459.
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Mather, Gurdon C., Detroit, Mich. Gear-shift lock. No. 1,349,973; Aug. 17; v. 277; p. 484.
Mathy, Maurice, Liege, Belgium. Furnace. No. 1,349,899; Aug. 17; v. 277; p. 469.
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Maxwell, M. P., Brooklyn, and J. S. Lawson, St. James, N. Y. Electric switch. No. 1,350,107; Aug. 17; v. 277; p. 509.
Mayer, Joseph W., Troy, assignor to J. A. Murray, Albany, N. Y. Mouthpiece for brush-making machines. No. 1,349,845; Aug. 17; v. 277; p. 459.
Mechanical Rubber Company, The. (See Cobb, Henry Z., assignor.)
Mecum, Francis M., Chico, Calif. Power-lift for crank-axle implements. No. 1,349,900; Aug. 17; v. 277; p. 470.
Meischke-Smith, William, San Francisco, Calif. Ferro-concrete construction. No. 1,349,901; Aug. 17; v. 277; p. 470.
Menkin, Solomon, New York, N. Y. Die-shifter. No. 1,349,974; Aug. 17; v. 277; p. 484.
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Meves, Charles W., and F. G. Herrmann, assignors to Sheboygan Couch Company, Sheboygan, Wis. Bed-davenport. No. 1,349,621; Aug. 17; v. 277; p. 416.

Meves, Charles W., and F. G. Herrmann, assignors to Sheboygan Couch Company, Sheboygan, Wis. Bed-davenport. No. 1,349,622; Aug. 17; v. 277; p. 416.
Meyer, George L., Milwaukee, Wis. Gas-engine ignition. No. 1,439,846; Aug. 17; v. 277; p. 459.
Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-bead. No. 1,349,902; Aug. 17; v. 277; p. 470.
Miller, Albert W., assignor of one-half to E. C. Bryan, Riverside, Calif. Coil-forming machine. No. 1,349,903; Aug. 17; v. 277; p. 470.
Miller, Wilmer W., Ardmore, Pa. Alarm device. No. 1,349,904; Aug. 17; v. 277; p. 470.
Milliken, Foster, *et al.*, trustees. (See Milliken, Foster, assignor.)
Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Ripplier, trustees. Alloy. No. 1,350,166; Aug. 17; v. 277; p. 521.
Mills, Byron T., Las Vegas, N. Mex. Copy-holder. No. 1,349,905; Aug. 17; v. 277; p. 471.
Milwaukee Corrugating Company. (See Luedke, August J., assignor.)
Mingle, John R., Anthony, Kans. Corn-header. No. 1,349,847; Aug. 17; v. 277; p. 460.
Mitchell, Ernest R., Philadelphia, Pa. Door rabbet-strip. No. 1,350,108; Aug. 17; v. 277; p. 510.
Mitchell, Eugene F., Spokane, Wash. Folding table. No. 1,349,687; Aug. 17; v. 277; p. 429.
Mock, Hugo, New York, N. Y. Heat-insulating device. No. 1,349,727; Aug. 17; v. 277; p. 437.
Moir, William, Chicago, Ill. Toy vehicle. No. 1,350,232; Aug. 17; v. 277; p. 534.
Monahan, Thomas G. (See Cupp, Harry N., assignor.)
Monahan, William P., *et al.* (See Bonney, Bick R., assignor.)
Monarch Metal Products Company. (See Lane, Alfred M., assignor.)
Monroe Calculating Machine Company. (See Phinney, Edgar E., assignor.)
Monroe, William, Hooper, Nebr. Clasp-hook. No. 1,350,033; Aug. 17; v. 277; p. 495.
Moore, Asbury, Seneca, S. C. Plow. No. 1,349,623; Aug. 17; v. 277; p. 416.
Moore, Julius B., Durango, Colo. Shock-absorber for automobiles and other vehicles. No. 1,349,781; Aug. 17; v. 277; p. 447.
Morgan, John D., assignor to Steel Utilities, Summit, N. J. Metal-punching machine. No. 1,349,975; Aug. 17; v. 277; p. 484.
Morrow, Samuel W., assignor to The Reus Bros. Company, Baltimore, Md. Piston packing-ring. No. 1,349,728; Aug. 17; v. 277; p. 437.
Moses, Harry S., Hubbard Woods, Ill. Undergarment No. 1,349,976; Aug. 17; v. 277; p. 484.
Mosley, Charles W., Hollywood, Calif. Milk-bottle cover. No. 1,350,167; Aug. 17; v. 277; p. 521.
Moyer, Fredellia H., Westmont borough, Pa. Side frame. No. 1,349,624; Aug. 17; v. 277; p. 417.
Mulinex, Chase, Tolley, N. D. Rotary engine. No. 1,350,168; Aug. 17; v. 277; p. 521.
Mulkern, John J., Cambridge, Mass. Wall bolt-holder. No. 1,349,977; Aug. 17; v. 277; p. 485.
Mulkern, Thomas A., Hollywood, assignor of one-half to C. E. Kerlee, Los Angeles, Calif. Vaporizer for internal-combustion engines. No. 1,350,079; Aug. 17; v. 277; p. 504.
Mullane, James P., Cambridge, Mass. Shirt. No. 1,350,169; Aug. 17; v. 277; p. 521.
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Murphy, Thomas J., assignor of one-half to J. P. B. Duffy, Rochester, N. Y. Arc-lamp system. No. 1,350,170; Aug. 17; v. 277; p. 521.
Murrin, John. (See Wafer, W. H., and Murrin.)
Murry, John A. (See Mayer, Joseph W., assignor.)
Myers, Henry E., Bowman, N. D. Eye-tester. No. 1,349,625; Aug. 17; v. 277; p. 417.
Myers, Hubert A., Toledo, Ohio. Signal means. No. 1,349,848; Aug. 17; v. 277; p. 460.
Nankervis, Charles T., Indianapolis, Ind. Loose-leaf ledger. No. 1,349,577; Aug. 17; v. 277; p. 408.
National Marking Machine Company. (See Hoffman, Ray, assignor.)
Navarre, Joseph R., Lakeside, Wash. Safety device for aviators. No. 1,349,782; Aug. 17; v. 277; p. 447.
Neddo, Richard, Norfolk, Va. Holder for advertisements and other papers. No. 1,349,906; Aug. 17; v. 277; p. 471.
Neeper, William M., Capac, Mich. Wreck-salvaging apparatus. No. 1,349,578; Aug. 17; v. 277; p. 408.
Nelson, Edward L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Modulating and transmitting system. No. 1,349,729; Aug. 17; v. 277; p. 438.
Nelson, Elgnar. (See Johnson, G., and Nelson.)
Nesbit, Arthur F., Wilkinsburg, Pa. Apparatus for rectifying electric currents. No. 1,349,907; Aug. 17; v. 277; p. 471.
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Nicholas, Francis C., Boston, Mass. Furnace. No. 1,350,233; Aug. 17; v. 277; p. 534.
Nichols, Oliver, Mound Valley, Kans. Tire and tube vulcanizer. No. 1,349,688; Aug. 17; v. 277; p. 429.
Niederberger, Alois, Argyle, Wis. Mixing-machine. No. 1,350,171; Aug. 17; v. 277; p. 522.
Nilson, Nils W., Walpole, Mass. Shuttle. No. 1,350,172; Aug. 17; v. 277; p. 522.
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Noesa, Will, Ellendale, N. D. Chain-protector. No. 1,350,234; Aug. 17; v. 277; p. 534.
Norin, Carl E., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,350,173; Aug. 17; v. 277; p. 522.
Norton, Charles F., East St. Louis, Ill. Automobile-locking device. No. 1,349,849; Aug. 17; v. 277; p. 460.
Nortwed, Bennie, Kellerton, Iowa. Wire-stretcher. No. 1,350,287; Aug. 17; v. 277; p. 544.
Norwood, H. Y., and F. W. Stalker, assignors to Taylor Instrument Companies, Rochester, N. Y. Automatic recording mechanism. No. 1,350,174; Aug. 17; v. 277; p. 522.
Notter, Charles, West Hoboken, N. J. Ash-sifter. No. 1,350,080; Aug. 17; v. 277; p. 504.
Nystrom, Carl F., New York, N. Y. Air-vent. No. 1,350,109; Aug. 17; v. 277; p. 510.
O'Connor, Edward, New Haven, Conn. Soap-container. No. 1,350,175; Aug. 17; v. 277; p. 523.
Olney, Lillian B., assignor of one-half to F. Weeks and F. Berry, San Francisco, Calif. Collapsible automobile-rim. No. 1,350,262; Aug. 17; v. 277; p. 539.
Olszewski, Sylvester, Detroit, Mich. Traffic-signal for automobiles. No. 1,349,689; Aug. 17; v. 277; p. 430.
Oltsch, George J., South Bend, Ind. Combined shock-absorber and rebound-snubber for vehicle-springs. No. 1,350,110; Aug. 17; v. 277; p. 510.
Oneida Community. (See Ellis, Ferrand F., assignor.)
Oneida Community. (See Smith, Gerard W., assignor.)
Osborn Crew Manufacturing Company, The. (See La Ganke, Hugo C., assignor.)
Palste, H. T., Company. (See Palste, Henry T., assignor.)
Palste, Henry T., assignor to H. T. Palste Company, Philadelphia, Pa. Fuse-plug. No. 1,350,111; Aug. 17; v. 277; p. 510.
Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullager-Fabriken, Gottenborg, Sweden. Roller-bearing. No. 1,350,263; Aug. 17; v. 277; p. 540.
Paradis, Robert F., Milwaukee, Wis. Picture-screen-frame projector. No. 1,349,580; Aug. 17; v. 277; p. 408.
Parcells, Paul, assignor to Geo. Whiting Company, Chicago, Ill. Bending-roll. No. 1,349,690; Aug. 17; v. 277; p. 430.
Parham, William M., Spring Hill, Tenn. Vehicle-wheel. No. 1,349,730; Aug. 17; v. 277; p. 438.
Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 1,350,034; Aug. 17; v. 277; p. 495.
Parsons, Robert J., assignor to General Electric Company, Fort Wayne, Ind. Electric switch. No. 1,349,851; Aug. 17; v. 277; p. 460.
Patterson, David C., Omaha, Nebr. Building construction. No. 1,349,850; Aug. 17; v. 277; p. 460.
Pauley, Edward M., Birdsview, Wash. Adjustable wrench. No. 1,349,852; Aug. 17; v. 277; p. 461.
Payne, Floyd E., Indianapolis, Ind. Dispensing apparatus. No. 1,350,112; Aug. 17; v. 277; p. 510.
Payne, Ralph W., Irvington, assignor of one-half to V. C. Armstrong, Hackensack, N. J. Wrench. No. 1,349,691; Aug. 17; v. 277; p. 430.
Peden, Hugh L., New York, assignor of one-half to W. F. Kearney, Spring Valley, N. Y. Snow-melter. No. 1,349,853; Aug. 17; v. 277; p. 461.
Pegnam, Thomas H., Brockton, Mass. Combined mail-opening and door-knocker. No. 1,349,731; Aug. 17; v. 277; p. 438.
Peltier, August O., assignor, by mesne assignments, to Detroit Pressed Steel Company, Detroit, Mich. Demountable-wheel-lifting device. No. 1,349,581; Aug. 17; v. 277; p. 408.
Pemberton-Billing, Noel, Hertford, England. Stove. No. 1,349,732; Aug. 17; v. 277; p. 438.
Pennsylvania Chocolate Company. (See Marvin, S. S., and Munz, assignors.)
Pero, Bertram S. (See Wurts, E. V., and Pero.)
Petersen, Walter R., Milwaukee, Wis. Tire-tread attachment. No. 1,349,626; Aug. 17; v. 277; p. 417.
Peterson, Per A., New York, N. Y. Crumb pan and brush. No. 1,349,582; Aug. 17; v. 277; p. 409.
Peterson, Victor E., Minneapolis, Minn. Cord-cutter. No. 1,349,627; Aug. 17; v. 277; p. 417.
Pfanstiehl Company. (See Balke, Clarence W., assignor.)
Pfund, August H. (See Grondahl, L. O., and Pfund.)
Phelan, Richard, Oakland, and F. Bendix, San Francisco, Calif. Berth. No. 1,350,081; Aug. 17; v. 277; p. 505.
Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Over rotation check for calculating-machine gears. No. 1,349,628; Aug. 17; v. 277; p. 417.
Pickett, James H., Queen, N. Mex. Gate. No. 1,350,235; Aug. 17; v. 277; p. 534.
Pierce, John, Jr., South Norwalk, assignor of one-half to D. S. Cummings, Stamford, Conn. Boiler-unit-assembling rack. No. 1,350,236; Aug. 17; v. 277; p. 534.
Pinto, Angelo, Coney Island, N. Y. Amusement device. No. 1,350,176; Aug. 17; v. 277; p. 523.

Pittsburgh Meter Company. (See Chrisman, Horace, assignor.)
Pivot Button Company. (See Helwig, Herman H., assignor.)
Porter Chemical Company, The. (See Porter, Harold M., assignors.)
Porter, Harold M., Hagerstown, Md., assignor to The Porter Chemical Company. Educational device. No. 1,350,237; Aug. 17; v. 277; p. 535.
Porter, James C. (See Stanley, J., and Porter.)
Post, Landon E., and D. A. Riedy, San Francisco, Calif. Dehydrating plant. No. 1,349,908; Aug. 17; v. 277; p. 471.
Postel-Vinay, Pierre J. R., assignor to Societe Des Moteurs Salmson, (Systeme Canton-Unne,) Paris, France. Magneto-frame. No. 1,349,962; Aug. 17; v. 277; p. 430.
Povelsen, Ingild, Washington, D. C. Compensating balance-wheel. No. 1,350,035; Aug. 17; v. 277; p. 496.
Pratt, Elmer M., and A. H. Rockefeller, Mackaville, Kans.; said Pratt assignor to said Rockefeller. Portable nest structure. No. 1,350,264; Aug. 17; v. 277; p. 540.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Sulfur-terpene compound. No. 1,349,909; Aug. 17; v. 277; p. 471.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Waterproofed fabric. No. 1,349,910; Aug. 17; v. 277; p. 471.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Vulcanized article and producing same. No. 1,349,911; Aug. 17; v. 277; p. 472.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Article and bonding metal and vulcanized rubber. No. 1,349,912; Aug. 17; v. 277; p. 472.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Pneumatic tire and making same. No. 1,349,913; Aug. 17; v. 277; p. 472.
Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Solid tire and making same. No. 1,349,914; Aug. 17; v. 277; p. 472.
Pribil, Alexis R., Cleveland, Ohio. Making connecting-rods. No. 1,350,177; Aug. 17; v. 277; p. 523.
Pribil, Alexis R., Saginaw, Mich. Making connecting-rods. No. 1,350,178; Aug. 17; v. 277; p. 523.
Priest, Edward D., assignor to General Electric Company, Schenectady, N. Y. Commutator for dynamo-electric machines. No. 1,349,854; Aug. 17; v. 277; p. 461.
Prizma Incorporated. (See Kelley, W. V. D., and Mason, assignors.)
Process Company, The. (See Coast, John W., Jr., assignor.)
Quast, Bruno, Cöln-Deutz, Germany. Block and bar shears. No. 1,349,915; Aug. 17; v. 277; p. 472.
Ragona, Vincent. (See Cory, S. C., and Ragona.)
Ramp Building Corporation. (See d'Humy, Fernand E., assignor.)
Range finding Sight Company. (See Gregory, Eli E., assignor.)
Ransome, Arthur W., Plainfield, assignor to Ransome Concrete Machinery Company, Dunellen, N. J. Concrete-mixing apparatus. No. 1,350,179; Aug. 17; v. 277; p. 523.
Ransome Concrete Machinery Company. (See Ransome, Arthur W., assignor.)
Rapson, Frederick L., Liverpool, England. Lifting-jack and the like for use on motor road and other vehicles. No. 1,350,036; Aug. 17; v. 277; p. 496.
Read, Charles H., Pittsburgh, Pa. Treating steel ingots. No. 1,349,733; Aug. 17; v. 277; p. 438.
Rece, Frank S., Dallas, Tex. Decapitor. No. 1,349,916; Aug. 17; v. 277; p. 472.
Recker, Adolph C., Oakville, assignor to The Chase Companies Inc., Waterbury, Conn. Convertible plate for electrical plug-receptacles. No. 1,349,978; Aug. 17; v. 277; p. 486.
Recuero, Joseph G., New York, N. Y. Hydraulic motor. No. 1,350,265; Aug. 17; v. 277; p. 540.
Reed, William. (See Garrison, Perry J., assignor.)
Reeve, William B. (See Sauer, V. O., and Reeve.)
Reid, James W. (See Berry, H. H., and Reid.)
Reid, John, New York, N. Y. Furnace-front. No. 1,350,037; Aug. 17; v. 277; p. 496.
Rein, G. H. (See Baumann, Ferdinand P., assignor.)
Relyea, Dewitt C., Coscob, Conn. Opener for glass-topped jars. No. 1,350,180; Aug. 17; v. 277; p. 524.
Remané, Hermann, Berlin, Germany. Soldering-iron. No. 1,350,181; Aug. 17; v. 277; p. 524.
Reus Bros. Company, The. (See Morrow, Samuel W., assignor.)
Reynolds, Arthur T., New York, N. Y. Upholstering. No. 1,349,629; Aug. 17; v. 277; p. 418.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Warp stop-motion for looms. No. 1,350,113; Aug. 17; v. 277; p. 511.
Rice, Clara M., Aberdeen, S. D. Bottle-cap. No. 1,350,238; Aug. 17; v. 277; p. 535.
Rice, Pincus, New York, N. Y. Calendar. No. 1,350,114; Aug. 17; v. 277; p. 511.
Richards, Thomas E., London, England. Structure. No. 1,349,980; Aug. 17; v. 277; p. 485.
Richards, Thomas E., London, England. Structure. No. 1,350,289; Aug. 17; v. 277; p. 544.
Riddick, David R. (See Mackintosh, Alexander L., assignor.)
Riedy, Dodge A. (See Post, L. E., and Riedy.)
Riley, Thomas, Oelwein, Iowa. Protector for sewers of engine cinder-pits. No. 1,349,734; Aug. 17; v. 277; p. 439.
Rios, John, New York, N. Y. Thermostatic switch. No. 1,350,183; Aug. 17; v. 277; p. 524.
Ripplier, James M., *et al.*, trustees. (See Milliken, Foster, assignor.)
Ritter, Lucinda, Riverside, Calif. Electric darning-ball. No. 1,349,979; Aug. 17; v. 277; p. 485.
Roberts, Harry H., Corwin, Kans. Attachment for binders. No. 1,349,855; Aug. 17; v. 277; p. 461.
Roberts, Raymond M., Melrose Highlands, Mass. Platform for use with elevating-trucks. No. 1,349,917; Aug. 17; v. 277; p. 473.
Robertson, Frank E. (See Geier, P. A., and Robertson.)
Robinett, Winfield S., Oakland, Calif. Vulcanizing apparatus. No. 1,349,693; Aug. 17; v. 277; p. 430.
Rockefeller, Albert H. (See Pratt, Elmer M.)
Roe, Alliott V., Hamble, Southampton, England. Seat support on aircraft. No. 1,350,266; Aug. 17; v. 277; p. 540.
Roe, Charles O., Indianapolis, Ind., assignor to Roe Metal Sandal Company, Milwaukee, Wis. Trench-sandal. (Reissue.) No. 14,934; Aug. 17; v. 277; p. 547.
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Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Frame for lamp resistances. No. 1,349,583; Aug. 17; v. 277; p. 409.
Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Reversing brush-gear for dynamo-electric machines. No. 1,349,584; Aug. 17; v. 277; p. 409.
Rolls-Royce Limited. (See Royce, Frederick H., assignor.)
Ross, James S., Westminster, London, England. Producing copper-sulfate solutions from ores. No. 1,350,239; Aug. 17; v. 277; p. 535.
Ross, William L., Jersey City, N. J. Tool-clamp. No. 1,350,240; Aug. 17; v. 277; p. 535.
Routh, William T., Helena, Ga. Cold-chisel. No. 1,350,241; Aug. 17; v. 277; p. 535.
Rownd, Annie K., *et al.* (See Kay, Samuel P., assignor.)
Roy, Alexander, Huntington, N. Y. Bell. No. 1,349,694; Aug. 17; v. 277; p. 431.
Royce, Frederick H., assignor to Rolls-Royce Limited, Derby, England. Electric contact-breaker. No. 1,349,783; Aug. 17; v. 277; p. 448.
Ruttinger, Henry, Buffalo, N. Y. Engine. No. 1,349,856; Aug. 17; v. 277; p. 461.
Ryan, George B. and W. M., Leaky, Tex. Rail-joint. No. 1,350,182; Aug. 17; v. 277; p. 524.
Ryan, William M. (See Ryan, George B. and W. M.)
Saget, Jules L., New Orleans, La. Ladder construction. No. 1,350,242; Aug. 17; v. 277; p. 535.
Sachs, Samuel. (See Blattberg, Nathan, assignor.)
Salop, Steven, Youngstown, Ohio. Book-lock. No. 1,349,857; Aug. 17; v. 277; p. 462.
Salvati, Michele N., deceased, G. Beer and A. Tedesco, executors, assignors to Societa Anonima Stabilimenti Biak, Turin, Italy. Producing metallic alloys containing nickel. No. 1,349,918; Aug. 17; v. 277; p. 473.
Samboll, Gabril, St. Cloud, Minn. Gasolene-funnel. No. 1,350,184; Aug. 17; v. 277; p. 524.
Sanders, John F., assignor to F. H. Churchill and O. F. Coshow, Roseburg, Oreg. Manufacturing nitric acid and other nitrogen compounds from atmospheric air. No. 1,349,919; Aug. 17; v. 277; p. 473.
Sanderson, Frank A., *et al.* (See Alsten, Alfred O., assignor.)
Sargent, W. H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,350,115; Aug. 17; v. 277; p. 511.
Sargent, William H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,350,116; Aug. 17; v. 277; p. 511.
Sato, Ryuji, New York, N. Y. Toy and game. No 1,350,082; Aug. 17; v. 277; p. 505.
Sauer, Vonnie O., and W. B. Reeve, Des Moines, Iowa. Folding extension-step. No. 1,349,585; Aug. 17; v. 277; p. 409.
Saunders, Fletcher A., San Pedro, Calif. Concrete cooker. No. 1,349,784; Aug. 17; v. 277; p. 448.
Savage, William, Three Rivers, Quebec, Canada. Garbage-incinerator. No. 1,349,785; Aug. 17; v. 277; p. 448.
Scarborough, Henry. (See Steere, Clarence E., assignor.)
Schirra, Julius, assignor to Brown Specialties Company, Pittsburgh, Pa. Screw-thread protector. No. 1,349,789; Aug. 17; v. 277; p. 449.
Schlueter, Adolph, Oakland, Calif. Display-stand and coin-holder. No. 1,349,786; Aug. 17; v. 277; p. 448.
Schlundt, Christian H., Indianapolis, Ind. Interchangeable steam chest and valve. No. 1,349,787; Aug. 17; v. 277; p. 448.
Schmidt, John, assignor, by mesne assignments, to Howe Rubber Corporation, New Brunswick, N. J. Bead-forming ring for molding pneumatic tires. No. 1,350,117; Aug. 17; v. 277; p. 511.
Schreiber, Edward A., assignor to Vapor Car Heating Company, Chicago, Ill. Hose-coupling. No. 1,350,083; Aug. 17; v. 277; p. 505.

Scroggin, Charles. (See Stanfield, G. A., and Scroggin.)
Scroggins, James L., Bennington, Okla. Street-car annunciator. No. 1,350,038; Aug. 17; v. 277; p. 496.
Schub, Charles H., New York, N. Y. Clamp. No. 1,350,084; Aug. 17; v. 277; p. 505.
Seaman, Joseph B., *et al.* (See Bartlett, Percy H., assignor.)
Searle, Charles J. (See Billings, Harry E., assignor.)
Select Service Company. (See Hanson, Harry, assignor.)
Sellers, Arthur E., Huddersfield, England. Cloth cutting or shearing machine. No. 1,349,788; Aug. 17; v. 277; p. 449.
Sellers, Paul T., Nicholasville, Ky. Corn-replanter. No. 1,349,920; Aug. 17; v. 277; p. 473.
Senyk, Toronto, Ontario, Canada. Block puzzle. No. 1,350,039; Aug. 17; v. 277; p. 496.
Shackleford, Alfred E., and G. A. Franklin, Calgary, Alberta, Canada. Valve. No. 1,350,040; Aug. 17; v. 277; p. 497.
Sharpneck, Matthew C., and C. A. Crisman, assignors of one-third to A. E. Agee, Omaha, Nebr. Driving-gear for automobiles. No. 1,349,695; Aug. 17; v. 277; p. 431.
Shaw, Thomas, Woonsocket, R. I. Micrometer-gage. No. 1,350,185; Aug. 17; v. 277; p. 525.
Sheasley, Charles H., assignor to Franklin Valveless Engine Company, Franklin, Pa. Starting-port for valveless two-cycle internal-combustion engines. No. 1,349,630; Aug. 17; v. 277; p. 418.
Sheboygan Couch Company. (See Meves, C. W., and Herrmann, assignors.)
Shell Company. (See Trumble, Milon J., assignor.)
Shelton, Clough W., Floyd county, Ga. Nut-lock. No. 1,349,696; Aug. 17; v. 277; p. 431.
Shelton, John B., San Francisco, Calif. Adjustable deck-support for cars. No. 1,349,735; Aug. 17; v. 277; p. 439.
Shenk, Robert R. (See Smith, A., and Shenk.)
Sherrod, William H., Seattle, Wash. Soil-pulverizer. No. 1,349,858; Aug. 17; v. 277; p. 462.
Short, Charley, Courtney, Mo. Flag-staff and support therefor. No. 1,349,921; Aug. 17; v. 277; p. 473.
Shukites, Mike, Jr., Johnston City, Ill. Trolley control. No. 1,350,243; Aug. 17; v. 277; p. 536.
Siegel, Edward, Elmhurst, N. Y. Vehicle-route-indicator device. No. 1,350,244; Aug. 17; v. 277; p. 536.
Siegel, Samuel, Brooklyn, assignor to Atlantic Metal Hose Company, Inc., New York, N. Y. Method and means for connecting pipe-couplings. No. 1,349,586; Aug. 17; v. 277; p. 409.
Sievart, Edward, Manitowoc, Wis. Marine propeller. No. 1,349,981; Aug. 17; v. 277; p. 485.
Sievart, Edward, Manitowoc, Wis. Heating apparatus. No. 1,349,982; Aug. 17; v. 277; p. 486.
Signature Company. (See Crompton, Frank E., assignor.)
Silberrad, Oswald, Buckhurst Hill, England. Propellant explosive. No. 1,349,983; Aug. 17; v. 277; p. 486.
Simms, Amos H., Chicago, Ill. Railway safety device. No. 1,349,984; Aug. 17; v. 277; p. 486.
Simpson, Robert H., Berkeley, Calif. Tire-valve cap. No. 1,349,922; Aug. 17; v. 277; p. 473.
Singer Manufacturing Company. (See Harmon, Frank L., assignor.) (Reissue.)
Singer Manufacturing Company, The. (See Kopf, E. A., and Hemleb, assignors.)
Skinner, Alva L. (See Denton, J., and Skinner.)
Skinner, Lewis B., Denver, Colo. Heat-regenerator. No. 1,350,267; Aug. 17; v. 277; p. 540.
Skinner, Lewis B., Denver, Colo. Protecting metal pipes exposed to high temperatures. No. 1,350,268; Aug. 17; v. 277; p. 541.
Skinner, Lewis B., Denver, Colo. Treating ores. No. 1,350,286; Aug. 17; v. 277; p. 544.
Smith, Andrew, and R. R. Shenk, Chicago, Ill. Gametable. No. 1,349,587; Aug. 17; v. 277; p. 410.
Smith, Christian N., Elgin, Ill. Safety plate-holder for electrotype and stereotype shaving machines. No. 1,349,736; Aug. 17; v. 277; p. 439.
Smith, Gerard W., assignor to Oneida Community, Limited, Oneida, N. Y. Jaw-trap. No. 1,349,697; Aug. 17; v. 277; p. 431.
Smith, Harry M., Daly City, assignor to The Colmar Burner Company, San Francisco, Calif. Gas-generator. No. 1,349,923; Aug. 17; v. 277; p. 473.
Smith, James R., Mechanicsville, N. Y. Fuel-burner. No. 1,349,790; Aug. 17; v. 277; p. 449.
Smith, Seth R., Los Angeles, Calif. Tool-box. No. 1,349,859; Aug. 17; v. 277; p. 462.
Smith, Wilfred B., Hobart, Tasmania, Australia. Pedimotive propelling-gear for bicycles, velocipedes, and the like. No. 1,349,588; Aug. 17; v. 277; p. 410.
Snodgrass, William. (See Litzinger, L. P., Conerty, and Snodgrass.)
Societe Anonima Stabilimenti Blak. (See Salvati, Michele N., assignor.)
Societe Des Moteurs Samson (Systeme Canton-Unne.) (See Postel-Vinay, Pierre J. R., assignor.)
Societe des Navires en Ciment Armé. (See Freyssinet, Eugène, assignor.)
Somerville, Albert A., assignor to New York Belting & Packing Company, Flushing, N. Y. Packing material. No. 1,349,737; Aug. 17; v. 277; p. 439.
Sorensen, John, Chicago, Ill. Wall-bed. No. 1,349,738; Aug. 17; v. 277; p. 439.
Spanier, Waldemar H., Devils Lake, N. D. Wrench. No. 1,349,631; Aug. 17; v. 277; p. 418.
Specialty Manufacturing Company. (See Kaiser, Alfred E., assignor.)
Spelling, Thomas C., New York, N. Y. Receptacle. No. 1,350,118; Aug. 17; v. 277; p. 511.
Sprague Canning Machinery Co. (See Lowe, Harry W., assignor.)
Squire, Gayle L., Hastings, Fla. Chair. No. 1,350,041; Aug. 17; v. 277; p. 497.
Stachowski, Joseph F., New York, N. Y. Bearing. No. 1,350,245; Aug. 17; v. 277; p. 536.
Staley, Joseph H., Columbus, Ind. Auto-piston clamping-vise. No. 1,349,632; Aug. 17; v. 277; p. 418.
Staley, Joseph H., Columbus, Ohio. Radiator-stand. No. 1,349,633; Aug. 17; v. 277; p. 418.
Staley, Joseph H., Columbus, Ind. Axle-stand. No. 1,350,119; Aug. 17; v. 277; p. 512.
Stalker, Frederick W. (See Norwood, H. Y., and Stalker.)
Standard Oven Company. (See Hartzell, Amos F., assignor.)
Standard Tool & Manufacturing Company. (See McIntosh, James A., assignor.)
Stanfield, G. A., and C. Scroggin, Lake City, Iowa. Threshing-machine. No. 1,350,085; Aug. 17; v. 277; p. 505.
Stanley, John, Santa Monica, Calif., and J. C. Porter, Seattle, Wash. Amusement device. No. 1,350,086; Aug. 17; v. 277; p. 506.
Staples, Arthur L., assignor to Winchester Repeating Arms Company, New Haven, Conn. Hand-lamp switch. No. 1,349,860; Aug. 17; v. 277; p. 462.
Stealy, Elza R., Shenandoah, Iowa. Apparatus for the examination of X-ray and other negatives. No. 1,350,042; Aug. 17; v. 277; p. 497.
Stearns, Ralph W., assignor to General Electric Company, Schenectady, N. Y. Condenser. No. 1,349,792; Aug. 17; v. 277; p. 449.
Steel Utilities. (See Morgan, John D., assignor.)
Steel Utilities. (See Wurts, E. V., and Pero, assignors.)
Steel Utilities. (See Wurts, Edward V., assignor.)
Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Fruit and vegetable pulping machine. No. 1,349,739; Aug. 17; v. 277; p. 439.
Steiger, Eugen, Zurich, Switzerland. Sound recorder and reproducer. No. 1,350,246; Aug. 17; v. 277; p. 536.
Stern, Morris J., Brooklyn, N. Y. Food-service cabinet. No. 1,349,634; Aug. 17; v. 277; p. 419.
Stevens, Lawrence V., Pittsburgh, Pa. Push-pole for locomotives. No. 1,349,985; Aug. 17; v. 277; p. 486.
Stewart, Perez M. (See Hubbard, Norman, assignor.)
Stewart, Arthur L. (See Gleason, J. E. and Stewart.)
Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-preparing machine. No. 1,349,740; Aug. 17; v. 277; p. 440.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Printing-press. No. 1,349,861; Aug. 17; v. 277; p. 463.
Stitt, Orlando, Toledo, Ill. Safety-drive for harvester-reels. No. 1,350,043; Aug. 17; v. 277; p. 497.
Stone, Albert, Seattle, Wash. Condiment-holder. No. 1,350,120; Aug. 17; v. 277; p. 512.
Stone, J., & Company. (See Rohman, Harry D., assignor.)
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler-loom. No. 1,350,121; Aug. 17; v. 277; p. 512.
Stratton, William T., Billings, Mont. Pump attachment for automobiles. No. 1,350,122; Aug. 17; v. 277; p. 512.
Straubel, F. L. G., Green Bay, Wis. Desk-drawer file. No. 1,350,186; Aug. 17; v. 277; p. 525.
Strawn, William H., *et al.* (See Blackwell, Henry F., assignor.)
Streibich, J. C., and G. F. Gruver, Little Rock, Ark. Submersible water-power device. No. 1,350,187; Aug. 17; v. 277; p. 525.
Strelchik, Michael, Glenfield, N. Y. Train-operated railway-gate. No. 1,349,986; Aug. 17; v. 277; p. 486.
Strumph, Isadore N., New York, N. Y. Detachable cuff for shirt-sleeves. No. 1,349,987; Aug. 17; v. 277; p. 486.
Stryhal, Joseph M., Washington, D. C., assignor of one-half to W. M. Manion, Philadelphia, Pa. Attachment for grinding screw-threaded articles. No. 1,350,044; Aug. 17; v. 277; p. 497.
Stutzke, Richard W. G., assignor to Crown Maltose Company, Chicago, Ill. Desiccating fluid substances. No. 1,350,247; Aug. 17; v. 277; p. 536.
Stutzke, R. W. G., assignor to The G. A. Buhl Company, Chicago, Ill. Desiccating milk and the like. No. 1,350,248; Aug. 17; v. 277; p. 537.
Stuyvesant Glass Company. (See Elmer, A., and Wiegand, assignors.)
Strait, William, Appleton, Wis., assignor to The Cleveland Tractor Company, Euclid, Ohio. Tractor-truck. No. 1,349,791; Aug. 17; v. 277; p. 449.
Strauss, Joseph B., Chicago, Ill. Reconnoitering apparatus. No. 1,349,635; Aug. 17; v. 277; p. 419.
Submarine Arms Corporation. (See Leathers, Ward G., assignor.)
Surface Combustion Company, The. (See Eddison, William B., assignor.)
Swanson, Axel E., Chicago, Ill. Bottling-machine. No. 1,350,249; Aug. 17; v. 277; p. 537.

Swanson, Robert L., Red Bluff, Calif. Fluid-transmission mechanism. No. 1,349,924; Aug. 17; v. 277; p. 474.
Sweet, Ernest E., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,349,589; Aug. 17; v. 277; p. 410.
Swing, Alfred J., Cincinnati, Ohio. Tone-arm apparatus for talking-machine. No. 1,349,636; Aug. 17; v. 277; p. 419.
Switzer, William T., Birmingham, Ala. Adjustable headrest for barbers' chairs. No. 1,349,637; Aug. 17; v. 277; p. 419.
Tate, John C., Oakland, Calif. Gas-burning heater. No. 1,349,862; Aug. 17; v. 277; p. 463.
Taylor, Arlen C., Clay Center, Kans. Vacuum water-circulator. No. 1,349,638; Aug. 17; v. 277; p. 419.
Taylor, Donald R. N., Drummoyne, near Sydney, Australia, and D. Marks, Sydney, New South Wales, Australia. Crutch. No. 1,349,639; Aug. 17; v. 277; p. 420.
Taylor Instrument Companies. (See Hurlburt, Edward N., assignor.)
Taylor Instrument Companies. (See Norwood, H. Y., and Stalker, assignors.)
Taylor, Joseph S., Pilot Point, Tex. Hand-harvester. No. 1,349,925; Aug. 17; v. 277; p. 474.
Taylor, W. P., Company. (See Gibney, James W., assignor.)
Tedesco, Arrigo, executors, *et al.* (See Salvati, Michele N.)
Tensfeldt, John O., Ridgewood, N. J. Drier. No. 1,349,590; Aug. 17; v. 277; p. 410.
Terry, Franklin A., San Francisco, Calif. Automatic burglar-alarm. No. 1,350,188; Aug. 17; v. 277; p. 525.
Testall Electric Manufacturing Co. (See Blerbower, Richard C., assignor.)
Theodore, Anostopoulo D., whose full legal name is T. D. Anagnostopoulos, Eunice, La. Article-handler. No. 1,350,123; Aug. 17; v. 277; p. 512.
Thompson, Robert L., Troup, Tex. Sod cutting and disintegrating machine. No. 1,349,926; Aug. 17; v. 277; p. 474.
Thorp, William T., Hillsboro, Ill. Tatting-shuttle. No. 1,349,741; Aug. 17; v. 277; p. 440.
Tiefenbrun, Katherine M., St. Louis, Mo. Covering for condensed-milk cans. No. 1,349,591; Aug. 17; v. 277; p. 410.
Tisdell, Frank J., assignor of one-fourth to C. B. Davis, and one-half to Gregory & Read Co., Lynn, Mass. Top-lift-burnishing machine. No. 1,349,863; Aug. 17; v. 277; p. 463.
Tompkins, Edward D., New York, N. Y. Sawing apparatus. No. 1,349,698; Aug. 17; v. 277; p. 431.
Torosian, Kerkor, Manchester, N. H. Wall construction. No. 1,349,793; Aug. 17; v. 277; p. 449.
Trapp, Charles L., assignor of one-fourth to G. C. Donovan, Schuyler, and one-fourth to L. W. Gohr, Omaha, Nebr. Truck-dumping mechanism. No. 1,350,087; Aug. 17; v. 277; p. 506.
Tribble, Robert A., Cedarbluff, Miss. Vending apparatus. No. 1,350,088; Aug. 17; v. 277; p. 506.
Trott, Rolland S., Denver, Colo. Detachable counterbalance for motor crank-shafts. No. 1,350,269; Aug. 17; v. 277; p. 541.
Trott, Rolland S., Denver, Colo. Detachable counterbalance-weight for motor crank-shafts. No. 1,350,270; Aug. 17; v. 277; p. 541.
Trouts, Harry, Bridgeport, Conn. Anvil attachment. No. 1,349,927; Aug. 17; v. 277; p. 474.
Truchlood, George L., Berkeley, Calif. Projecting apparatus. No. 1,349,640; Aug. 17; v. 277; p. 420.
Trumble, Milon J., Alhambra, Calif., assignor to Shell Company of California. Apparatus for treating hydrocarbon oils. No. 1,349,794; Aug. 17; v. 277; p. 450.
Turner, William G., Brooklyn, N. Y. Tooth-filling. No. 1,349,592; Aug. 17; v. 277; p. 410.
Turney, Harry L., Portland, Oreg. Two-speed logging-engine. No. 1,349,742; Aug. 17; v. 277; p. 440.
Tyner, Richard H., Cincinnati, Ohio. Marking, listing, and assorting booth. No. 1,349,699; Aug. 17; v. 277; p. 431.
Ullmann, Emanuel S., New York, N. Y. Apparatus for mooring dirigibles and the like. No. 1,349,593; Aug. 17; v. 277; p. 410.
Underwood Computing Machine Company. (See Corell, Clifton B., assignor.)
Underwood Computing Machine Company. (See Norin, Carl E., assignor.)
Underwood Typewriter Company. (See Bates, Harry, assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
Union Special Machine Company. (See Berger, Joseph, Jr., assignor.)
United Shoe Machinery Corporation. (See Gorsuch, George J., assignor.)
United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
Universal Paint Remover and Motor Cleaning Company. (See Cleveland, David P., assignor.)
Unruh, Herbert F., Meno, Okla. Leveling attachment. No. 1,349,928; Aug. 17; v. 277; p. 474.
Vair, Alexander G., Ravenna, Ohio. Motor-vehicle. No. 1,349,743; Aug. 17; v. 277; p. 440.
Valley Electric Company. (See Baliman, Edwin C., assignor.)
Van Allen, Frederic L., Regina, Saskatchewan, Canada. Apparatus of deseeding flax. No. 1,350,045; Aug. 17; v. 277; p. 498.
Van Dervort, Adrian O., Troy, N. Y. Packing-box for piston-rods. No. 1,350,046; Aug. 17; v. 277; p. 498.
Van Tuyl, Carl L., Bison, Kans. Canopy for beds. No. 1,349,929; Aug. 17; v. 277; p. 475.
Vapor Car Heating Company. (See Loudon, Warren P., assignor.)
Vapor Car Heating Company. (See Schreiber, Edward A., assignor.)
Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,350,124; Aug. 17; v. 277; p. 513.
Vernon, Wilfred F., Walton-on-the-Hill, England, assignor to Humphrey Gas Pump Company. Internal-combustion pump and compressor. No. 1,350,125; Aug. 17; v. 277; p. 513.
Viliter Manufacturing Company, The. (See Keller, John G., assignor.)
Virzi, Giovanni, assignor of one-half to J. Virzi, New York, N. Y. Free sounding-board. No. 1,349,700; Aug. 17; v. 277; p. 432.
Virzi, Joseph. (See Virzi, Giovanni, assignor.)
Vogel, Otto H., Taber, Alberta, Canada. Combined salt and pepper shaker. No. 1,349,795; Aug. 17; v. 277; p. 450.
Voland, Emil L. (See Voland, George G., and E. L.)
Voland, George G. and E. L., New Rochelle, N. Y. Post for scales. No. 1,350,189; Aug. 17; v. 277; p. 526.
Wadsworth, Howard L., Cleveland, Ohio. Sand-cutting machine. No. 1,349,988; Aug. 17; v. 277; p. 486.
Wafer, William H., and J. Murrin, Chicago, Ill. Gage or try-cock. No. 1,349,594; Aug. 17; v. 277; p. 411.
Wagman, E., and H. Brussell, Philadelphia, Pa. Motor attachment for sewing or other machines. No. 1,350,126; Aug. 17; v. 277; p. 513.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,864; Aug. 17; v. 277; p. 463.
Wallace, Thomas, Wabash, Ind. Teeter-totter. No. 1,349,701; Aug. 17; v. 277; p. 432.
Warner, Leroy J., Fostoria, Ohio. Inking-roll truck. No. 1,350,127; Aug. 17; v. 277; p. 513.
Warren, John R., Marshalltown, Iowa. Mechanical movement. No. 1,350,250; Aug. 17; v. 277; p. 537.
Wathen, Inez M. (See Wathen, Ivan B., assignor.)
Wathen, Ivan B., Strattonville, assignor to I. M. Wathen, Showers, Pa. Mining implement. No. 1,349,641; Aug. 17; v. 277; p. 420.
Watson, George W., Boston, Mass. Non-slip heel for footwear. No. 1,350,190; Aug. 17; v. 277; p. 526.
Watterson, Wilfred W., Bishop, Calif. Depositing soda, &c. No. 1,350,128; Aug. 17; v. 277; p. 513.
Watterson, William A., Macquarie River, via Euchareena, New South Wales, Australia. Fan for use in spark-arresting and smoke-consuming devices. No. 1,350,191; Aug. 17; v. 27; p. 526.
Way, Eugene W., Seattle, Wash. Show-case lock. No. 1,350,047; Aug. 17; v. 277; p. 498.
Wayne Manufacturing Company. (See Sargent, William H., assignor.)
Weaver, S. Fullerton, *et al.*, trustees. (See Milliken, Foster, assignor.)
Weeks, Foster, *et al.* (See Olney, Lillian B., assignor.)
Weeks, Helen, assignor of one-half to S. E. Durant, New York, N. Y. Dress-shield. No. 1,350,192; Aug. 17; v. 277; p. 526.
Weems, Chester N., Irvington, N. J. Head-lamp. No. 1,349,642; Aug. 17; v. 277; p. 420.
Weigel, Philip A., Riverton, N. J., assignor of one-third to E. Gumbel and one-third to G. Di Giacomo, Philadelphia, Pa. Steering-controller. No. 1,350,285; Aug. 17; v. 27; p. 543.
Western Electric Company. (See Nelson, Edward L., assignor.)
Western Union Telegraph Company. (See Howe, Paul J., assignor.)
Westinghouse Lamp Company. (See Madden, Harry D., assignor.)
Westling, Herman, assignor to Apsley Rubber Company, Hudson, Mass. Shoe. No. 1,349,744; Aug. 17; v. 277; p. 440.
Westling, Herman, assignor to Apsley Rubber Company, Hudson, Mass. Shoe. No. 1,349,745; Aug. 17; v. 277; p. 441.
White, Charles J., Pawnee, La. Tractor. No. 1,349,930; Aug. 17; v. 277; p. 475.
White, John F., assignor, by mesne assignments, to White Products Company, Chicago, Ill. Windshield-cleaner. No. 1,349,989; Aug. 17; v. 277; p. 487.
White Products Company. (See White, John F., assignor.)
Whiting, Geo., Company. (See Parcells, Paul, assignor.)
Whitney, Frederick S., New York, N. Y. Attachment for cable-recorders. No. 1,350,193; Aug. 17; v. 277; p. 526.
Wiedeman, George J., Lewistown, and J. H. Hughes, Welter, Mont. Chain clamp and tightener. No. 1,349,702; Aug. 17; v. 277; p. 432.

Wiegand, Wilhelm T. (See Eimer, A., and Wiegand.)
Wiggins, Isam I. McIntosh, Ga. Differential mechanism for front and rear driven vehicles. No. 1,350,194; Aug. 17; v. 277; p. 527.
Wilbur, Stephen B., Akron, Ohio. Tire-spreader. No. 1,349,990; Aug. 17; v. 277; p. 487.
Wile, Solomon, Rochester, N. Y. Slicing-machine. No. 1,350,048; Aug. 17; v. 277; p. 498.
Wile, Solomon, Rochester, N. Y. Slicing-machine. No. 1,350,049; Aug. 17; v. 277; p. 498.
Wilhelmi, Dirk F., Doorwerth, Netherlands. Vulcanizing-mold for boots and shoes. No. 1,349,796; Aug. 17; v. 277; p. 450.
Willey, Isaac F., Philadelphia, Pa. Retaining device for laundried collars. No. 1,349,643; Aug. 17; v. 277; p. 420.
Williams, Chester L., Chapin, Ill. Gate-hinge. No. 1,349,797; Aug. 17; v. 277; p. 450.
Williams, Edward R., Sharpsburg, Pa. Disinfecting or deodorizing device. No. 1,349,703; Aug. 17; v. 277; p. 432.
Williams, John D., Charlotte, N. C. Bass-drum-operating mechanism. No. 1,350,195; Aug. 17; v. 277; p. 527.
Williams, Joseph S., Riverton, N. J. Plant for concrete construction. No. 1,349,992; Aug. 17; v. 277; p. 487.
Williams, Louis H., St. Joseph, Mo. Oil-cup. No. 1,350,196; Aug. 17; v. 277; p. 527.
Williams, Lynn A., Evanston, Ill. Vacuum-tank. No. 1,349,993; Aug. 17; v. 27; p. 488.
Williams, Lynn A., *et al.*, trustees. (See Bradbury, Clifford C., assignor.)
Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)
Willys-Overland Company, The. (See McKinley, Charles W., assignor.)
Wilson, Dalton K., Waterloo, Iowa. Cultivator. No. 1,350,050; Aug. 17; v. 27; p. 499.
Wilson, James S., Scranton, Pa. Grate. No. 1,349,644; Aug. 17; v. 277; p. 420.
Wilson, Lloyd, Keswick, England. Gas-burner. No. 1,350,051; Aug. 17; v. 277; p. 499.
Wilson, Walter, Meridian, assignor of one-half to R. Barnum, Nampa, Idaho. Tool-handle oiler. No. 1,349,931; Aug. 17; v. 27; p. 475.
Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)
Winchester Repeating Arms Company. (See Staples, Arthur L., assignor.)
Winston, Overton, Minneapolis, Minn. Headlight. No. 1,349,595; Aug. 17; v. 277; p. 411.
Wiswall, William J., Portland, Oreg. Manifolding device. No. 1,349,865; Aug. 17; v. 277; p. 463.
Withrow, Floyd G., Grand Rapids, Mich. Oil-alarm device. No. 1,349,991; Aug. 17; v. 277; p. 487.
Wolf, Rufus P., *et al.* (See Kay, Samuel P., assignor.)
Wolffsohn, Lionel M., now by judicial change of name Lionel M. Woolson, Union, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,349,866; Aug. 17; v. 277; p. 464.
Wonser, Jerry H., Eureka, Wash. Sand-box. No. 1,349,704; Aug. 17; v. 277; p. 432.
Wood, A. J., Greenville, assignor to Bennett Injector Company, Muskegon, Mich. Grease container and dispenser for heavy greases. No. 1,349,994; Aug. 17; v. 277; p. 488.
Wood, Walter, Bay City, Oreg. Attachment for shoes. No. 1,350,197; Aug. 17; v. 277; p. 527.
Woodward, Garrett W., Chicago, Ill., assignor, by mesne assignments, to American Automatic Products Corporation. Self-operating talking-machine. No. 1,349,705; Aug. 17; v. 277; p. 433.
Woolsey, Nicholas L., New York, N. Y. Rail. No. 1,350,198; Aug. 17; v. 277; p. 527.
Woolson, Lionel M. (See Wolffsohn, Lionel M.)
Worcester, Ira D., Pittsburgh, Pa. Light-projecting lantern. No. 1,349,706; Aug. 17; v. 277; p. 433.
Worthington, Thomas E., Kansas City, Mo. Hydrocarbon-fuel burner. No. 1,350,199; Aug. 17; v. 277; p. 528.
Wosiewski, John, Nanticoke, Pa. File-protector. No. 1,349,596; Aug. 17; v. 277; p. 411.
Wrinkle, Noah, and W. A. Kuhnert, San Francisco, Calif. Separately obtaining potassium chlorid and borax from certain waters. No. 1,350,089; Aug. 17; v. 277; p. 506.
Wrinkle, Noah, and W. A. Kuhnert, San Francisco, Calif. Separating borax from potassium chlorid. No. 1,350,090; Aug. 17; v. 277; p. 506.
Wurts, Edward V., Newark, and B. S. Pero, Jersey City, N. J., assignors to Steel Utilities, Incorporated. Controlling system for metal-working machines. No. 1,349,995; Aug. 17; v. 277; p. 488.
Wurts, Edward V., Newark, N. J., assignor to Steel Utilities, Incorporated. Distance-determining mechanism for metal-working machines. No. 1,349,996; Aug. 17; v. 277; p. 488.
Yarrow, Harold E., Glasgow, Scotland. Circulation in water-tube boilers. No. 1,350,200; Aug. 17; v. 277; p. 528.
Yeager, Matthias S., assignor to The Colmar Burner Company, San Francisco, Calif. Hydrocarbon-generator. No. 1,349,932; Aug. 17; v. 277; p. 475.
Yeoman, Cyril, Herne Hill, England. Filtration and/or percolation of liquids. No. 1,349,798; Aug. 17; v. 277; p. 450.
Yerkes, Wilmer H., Pittsburgh, Pa. Sled. No. 1,349,645; Aug. 17; v. 277; p. 421.
Yeso, Paul, Dodgeville, Mich. Flying-machine. No. 1,350,201; Aug. 17; v. 277; p. 528.
Young, William, Tacoma, Wash. Condenser-tank for refrigerating and ice-making machines. No. 1,349,746; Aug. 17; v. 277; p. 441.
Young, William, Detroit, Mich. Railway-joint. No. 1,350,129; Aug. 17; v. 277; p. 514.
Zajac, Leopold, Seattle, Wash. Pipe-threading machine. No. 1,340,646; Aug. 17; v. 277; p. 421.
Zakarka, Joseph, Brooklyn, N. Y. Sugar-packing machine. No. 1,350,130; Aug. 17; v. 277; p. 514.
Zeitz, Hugo C., Monessen, Pa. Shade, curtain, and drapery holder. No. 1,349,933; Aug. 17; v. 277; p. 476.
Zimmermann, Hans J., assignor, by mesne assignments, to The G. A. Buhl Company, Chicago, Ill. Liquid and gas contact apparatus. No. 1,350,202; Aug. 17; v. 277; p. 528.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Aronson, Louis V., Newark, N. J. Combined cigar-lighter and inkstand. No. 56,093; Aug. 17; v. 277; p. 548.
Athens Shipbuilding Corporation. (See Case, John E., assignor.)
Belden, Edward H., assignor to Industrial Research Corporation, Toledo, Ohio. Automobile splash-board. No. 56,094; Aug. 17; v. 277; p. 548.
Brass Goods Mfg. Co. (See Brill, Hazel, assignor.)
Brill, Hazel, Brooklyn, assignor to Brass Goods Mfg. Co., New York, N. Y. Container. No. 56,095; Aug. 17; v. 277; p. 548.
Case, John E., assignor to Athens Shipbuilding Corporation, New York, N. Y. Burial-casket. No. 56,096; Aug. 17; v. 277; p. 548.
Central Oil & Gas Stove Company. (See White, Fred E., assignor.)
Elgin National Watch Company. (See Goodrow, Francis A., assignor.)
Faas, William F., Cleveland, Ohio. Stand. No. 56,097; Aug. 17; v. 277; p. 548.
Garrett & Company. (See Weller, Hubert R., assignor.)
Godley, Charles E., Detroit, Mich. Lamp. No. 56,098; Aug. 17; v. 277; p. 548.
Goodrow, Francis A., assignor to Elgin National Watch Company, Elgin, Ill. Watch-dial. No. 56,099; Aug. 17; v. 277; p. 549.
Guy, Raymond W. (See Merkel, H., and Guy.)
Hickey, Henry J. (See McMullan, W. E., and Hickey.)
Industrial Research Corporation. (See Belden, Edward H., assignor.)
Kearney, John J., Berwyn, and G. H. Winter, Chicago, Ill. Statuette. No. 56,100; Aug. 17; v. 277; p. 549.
Merkel, Howard, West Springfield, and R. W. Guy, Longmeadow, Mass. Metal sponge-cup. No. 56,101; Aug. 17; v. 277; p. 549.
McMullan, Warner E., and H. J. Hickey, Fort Dodge, Iowa. Highway-guide device. No. 56,102; Aug. 17; v. 277; p. 549.
Pennington, Andrew J., assignor to U. S. Compression Inner Tube Company, Tulsa, Okla. Tire. Nos. 56,103–5; Aug. 17; v. 277; p. 549.
Russell, Calvin, Penn Yan, N. Y., assignor to C. H. Russell. Roofing-shingle. No. 56,106; Aug. 17; v. 277; p. 550.
Russell, Carrie H. (See Russell, Calvin, assignor.)
Rustant, Ferdinand, San Francisco, Calif. Bottle-stopper Nos. 56,107–8; Aug. 17; v. 277; p. 550.
Thomson, Ralph K., Sioux Falls, S. D. Automobile side curtain. No. 56,109; Aug. 17; v. 277; p. 550.
U. S. Compression Inner Tube Company. (See Pennington, Andrew J., assignor.)
Weller, Hubert R., assignor to Garrett & Company, Incorporated, Brooklyn, N. Y. Bottle. No. 56,110; Aug. 17; v. 277; p. 550.
White, Fred E., assignor to Central Oil & Gas Stove Company, Gardner, Mass. Oil-stove. No. 56,111; Aug. 17; v. 277; p. 551.
Winter, George H. (See Kearney, J. J., and Winter.)
Wojciechowski, Frank, Staunton, Ill., Pocket cigar-holder. No. 56,112; Aug. 17; v. 277; p. 551.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aero Products Company, The, Cleveland, Ohio. Carbureters. No. 134,148; Aug. 17; v. 277; p. 581.
Aktiebolaget Ingeniorsfirman, G. A. Lindstedt & Co., Stockholm, Sweden. Cutlery, machinery, and tools. No. 134,149; Aug. 17; v. 277; p. 581.
American Calculating Machine Co., The, New York, N. Y. Calculating-machines. No. 134,150; Aug. 17; v. 277; p. 581.
American Device Manufacturing Company, St. Louis, Mo. Vacuum suction-pumps. No. 134,151; Aug. 17; v. 277; p. 581.
American Seeding-Machine Company, The, Springfield, Ohio. Grain-drill, combined grain-drills and fertilizer-sowers, and broadcast fertilizer-sowers. No. 134,152; Aug. 17; v. 277; p. 581.
Berger, Samuel, Newark, N. J. Sink-scoops. No. 134,153; Aug. 17; v. 277; p. 581.
Brandon, Arthur H., & Co., Toledo, Ohio. Fishing-tools for wells. No. 134,154; Aug. 17; v. 277; p. 581.
Bromley-Merseles Mfg. Co., New York, N. Y. Dish-washing machines and metal-parts-washing machines. No. 134,207; Aug. 17; v. 277; p. 582.
Burns, Jabez, & Sons, New York, N. Y. Machinery and parts thereof. No. 134,160; Aug. 17; v. 277; p. 581.
Cheney, S., & Son, Manlius, N. Y. Stock-feed-grinding machines. No. 134,161; Aug. 17; v. 277; p. 581.
Chesapeake Iron Works, Baltimore, Md. Cranes. No. 134,155; Aug. 17; v. 277; p. 581.
Churchill, Ray S., Danville, Ill. Soldering compounds in powder form. No. 134,162; Aug. 17; v. 277; p. 581.
Continental Castings Corp., New York, N. Y. Aluminum alloys. No. 134,163; Aug. 17; v. 277; p. 581.
Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blooms, &c. No. 134,164; Aug. 17; v. 277; p. 581.
Eastern Machine Screw Corporation, The. Automatic die heads, collapsible taps, threading machines, &c. No. 134,165; Aug. 17; v. 277; p. 581.
Essex Rubber Company, Trenton, N. J. Tank-balls. No. 134,166; Aug. 17; v. 277; p. 581.
Farm Equipment Co., The, Baltimore, Md. Machinery, tools, and parts thereof. No. 134,156; Aug. 17; v. 277; p. 581.
Great Western Smelting & Refining Company, Chicago, Ill. Babbitt, bearing, and type metals. No. 134,167; Aug. 17; v. 277; p. 581.
Greb Company, Inc., The, Portland, Me., and Boston, Mass. Tools. No. 134,157; Aug. 17; v. 277; p. 581.
Hartman Company, The, Chicago, Ill. Animal-feed cookers. No. 134,168; Aug. 17; v. 277; p. 581.
Haynes Stellite Co., The, Kokomo, Ind. Blades and cutters for milling, turning, and the like metal-working machinery. No. 134,158; Aug. 17; v. 277; p. 581.
Hedman, Nels O., Leadville, Colo. Saw-sets. No. 134,169; Aug. 17; v. 277; p. 581.
Heilig, Luther A., San Diego, Calif. Optical lenses for spectacles and eyeglasses. No. 134,159; Aug. 17; v. 277; p. 581.
Hendricks, Charles I., New York, N. Y. Protective coverings for attachments to the platens or rolls of typewriters and adding-machines. No. 134,170; Aug. 17; v. 277; p. 581.
Heppenstall Forge and Knife Company, Pittsburgh, Pa. Heat-treated forgings. No. 134,171; Aug. 17; v. 277; p. 581.
Holt Manufacturing Company, The, Stockton, Calif. Machines and parts thereof. No. 134,172; Aug. 17; v. 277; p. 581.
Hughes & Curren Co., Inc., Rochester, N. Y. Tops, fenders, and clutch-hooks as accessories for tractors. No. 134,173; Aug. 17; v. 277; p. 581.
Hunter Pressed Steel Co., Lansdale borough, Pa. Grease-cups. No. 134,174; Aug. 17; v. 277; p. 581.
Jackson, J., Limited, Bramley, England. Taps and valves of metal for general use with fluids. No. 134,175; Aug. 17; v. 277; p. 581.
Johnson, Roe L., New York, N. Y. Tools. No. 134,176; Aug. 17; v. 277; p. 581.
Jones, Joseph M., Baltimore, Md. Insecticide and fungicide. No. 134,177; Aug. 17; v. 277; p. 582.
Kahan, Joseph C., Philadelphia, Pa. Optical goods. No. 134,178; Aug. 17; v. 277; p. 582.
Keystone Driller Company, Beaver Falls, Pa. Machinery. No. 134,179; Aug. 17; v. 277; p. 582.
Maschinenfabrik Schweiter A.-G., Horgen, Switzerland. Machinery and parts thereof. No. 134,180; Aug. 17; v. 277; p. 582.
Matthews, W. N., and Brother, Inc., St. Louis, Mo. Spraying devices. No. 134,181; Aug. 17; v. 277; p. 582.
Maus, Charles F., Chicago, Ill. Cutlery. Nos. 134,182–3; Aug. 17; v. 277; p. 582.
Meisel Press Manufacturing Company, Boston, Mass. Machinery. No. 134,184; Aug. 17; v. 277; p. 582.
Miller, Thomas R. E., Evansville, Ind. Metal pipes, pipe-couplings, reducers, unions, and elbows. No. 134,185; Aug. 17; v. 277; p. 582.
Orange Manufacturing Company, Orange, Va. Automobile accessory. No. 134,186; Aug. 17; v. 277; p. 582.
Petri and Jones Company, Incorporated, Boston, Mass. Machinery and appliances used in the manufacture of foods, &c. No. 134,187; Aug. 17; v. 277; p. 582.
Premium Metal & Packing Co., Wilkinsburg, Pa. Babbitt metals. No. 134,188; Aug. 17; v. 277; p. 582.
Ralko Products Company, The, Dayton, Ohio. Hand fire-extinguishers. No. 134,189; Aug. 17; v. 277; p. 582.
Russ Manufacturing Company, The, Cleveland, Ohio. Soda-fountains and soda-water carbonators. No. 134,190; Aug. 17; v. 277; p. 582.
Simmons Hardware Company, St. Louis, Mo. Safety-razor blades. No. 134,191; Aug. 17; v. 277; p. 582.
Societe des Moteurs Gnome et Rhone, Paris, France. Internal-combustion aviation-motors and engines. No. 134,192; Aug. 17; v. 277; p. 582.
Standard Gas Engine Co., Oakland, Calif. Marine and stationary gas-engines and hoists for same. No. 134,193; Aug. 17; v. 277; p. 582.
Stephens-Adamson Manufacturing Co., Aurora, Ill. Roller-brackets for belt conveyers. No. 134,194; Aug. 17; v. 277; p. 582.
Tennessee Coal, Iron & Railroad Company, Birmingham, Ala. Plain, corrugated, round, square, and flat iron and steel. No. 134,195; Aug. 17; v. 277; p. 582.
Tiffany & Company, New York, N. Y. Cutlery and dies for engraving, stamping or embossing stationery. No. 134,196; Aug. 17; v. 277; p. 582.
Treefilm Company, Inc., New York, N. Y. Cinematographic films. No. 134,197; Aug. 17; v. 277; p. 582.
Vollrath, Jacob J., M'f'g Co., The, Sheboygan, Wis. Steel enameled ware. No. 134,198; Aug. 17; v. 277; p. 582.
Wales Adding Machine Company, Kingston borough, Pa. Adding, listing, and calculating machines. No. 134,199; Aug. 17; v. 277; p. 282.
Wards', Edgar T., Sons Co., Boston, Mass. Tool-steel. No. 134,203; Aug. 17; v. 277; p. 582.
Wardwell Braiding Machine Company, Central Falls, R. I. Braiding-machines and parts thereof. No. 134,200; Aug. 17; v. 277; p. 582.
Warren Tool and Forge Company, The, Warren, Ohio. Tools. No. 134,201; Aug. 17; v. 277; p. 582.
West Virginia Malleable Iron Co., Point Pleasant, W. Va. Malleable-iron castings. No. 134,204; Aug. 17; v. 277; p. 582.
Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Pulleys. No. 134,202; Aug. 17; v. 277; p. 582.
Worden, W. H., Company, San Francisco, Calif. Drag-saws. No. 134,205; Aug. 17; v. 277; p. 582.
Wyckoff Drawn Steel Co., Pittsburgh, Pa. Cold-drawn steel. No. 134,206; Aug. 17; v. 277; p. 582.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

American Novelty Works, Herndon, Pa. "Star Building Blocks." (For Building-Blocks.) No. 21,964; Aug. 17; v. 277; p. 583.

Boyle, Michael H., Detroit, Mich. "O. B. C. Compound." (For a Foot Antiseptic Compound.) No. 21,965; Aug. 17; v. 277; p. 583.

Bradford, Albert S., Placentia, Calif. "Tesoro Rancho Red Label." (For Citrus Fruits.) No. 21,966; Aug. 17; v. 277; p. 583.

Bradford, Albert S., Placentia, Calif. "Tesoro Rancho Fancy." (For Citrus Fruits.) No. 21,967; Aug. 17; v. 277; p. 583.

Clarke, J. Q., Tank Co., Crawfordsville, Ind. "Worlds Best Cafeteria Feeder." (For Live-Stock Feeders and Drinking-Fountains.) No. 21,968; Aug. 17; v. 277; p. 583.

Fagan, Hosea B., Burlington, Iowa. "Crescent." (For Malt Products.) No. 21,969; Aug. 17; v. 277; p. 583.

Gehl, John P., South Germantown, Wis. "Meje, a Compound of fresh skimmed Milk and Cocoanut Oil." (For a Compound of Milk and Vegetable Oil.) No. 21,970; Aug. 17; v. 277; p. 583.

Hibshman, Lucy A., Canton, Ohio. "Sub-Treatment for Goiter and Tumors." (For a Salve for the Treatment of Goiter and Tumors.) No. 21,971; Aug. 17; v. 277; p. 583.

Julian, Roger, Brooklyn, N. Y. "Acqua Di Chinina Magone." (For a Hair-Tonic.) No. 21,972; Aug. 17; v. 277; p. 583.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Krumbled Bran." (For a Food.) No. 21,973; Aug. 17; v. 277; p. 583.

Lady Jefferson Candy Company, Birmingham, Ala. "Old Style Lady Jefferson Candies Home Made." (For Candies.) No. 21,974; Aug. 17; v. 277; p. 583.

Larivee, Laura J., Detroit, Mich. "The Mascot." (For Scalp-Ointment.) No. 21,975; Aug. 17; v. 277; p. 583.

McCrary, Frank B., Knoxville, Tenn. "Mack's Old Kentucky Fruitta Punch." (For a Flavoring-Syrup.) No. 21,976; Aug. 17; v. 277; p. 583.

McNamara, Lou, Kansas City, Mo. "Sweet Hearts Quality." (For Plastic Skin-Lotions.) No. 21,977; Aug. 17; v. 277; p. 583.

O'Brian, A. W., & Company, Hutchinson, Kans. "Germa Stomach and Liver Tablets." (For Stomach and Liver Tablets.) No. 21,978; Aug. 17; v. 277; p. 583.

Ralston Purina Company, St. Louis, Mo. "Whole Wheat Bread." (For Whole-Wheat Bread.) No. 21,979; Aug. 17; v. 277; p. 583.

Slater, Harry A., Pittsburgh, Pa. "Argonne Cavity Fluid." (For Cavity Fluid.) No. 21,980; Aug. 17; v. 277; p. 583.

Slater, Harry A., Pittsburgh, Pa. "Argonne Embalming Fluid." (For Embalming Fluid.) No. 21,981; Aug. 17; v. 277; p. 583.

Valley Fruit Co. Inc., Walla Walla, Wash. "Valley Brand." (For Fresh Apples.) No. 21,982; Aug. 17; v. 277; p. 583.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Daniel Hays Company, The, Gloversville, N. Y. "Hays Gloves." (For Leather Gloves.) No. 5,287; Aug. 17; v. 277; p. 583.

Lectro Sales Company, Portland, Oreg. "Lectro Service Stand." (For Devices for Locating and Eliminating Short Circuits in and Recharging Magnets of Ford Magnetos.) No. 5,288; Aug. 17; v. 277; p. 583.

Schoenhofen Company, Chicago, Ill. "Drink Green River." (For Non-Alcoholic Beverages.) No. 5,289; Aug. 17; v. 277; p. 583.

Schoenhofen Company, Chicago, Ill. "Try a Green River Soda." (For Non-Alcoholic Beverages.) No. 5,290; Aug. 17; v. 277; p. 583.

Wisconsin Butterine Co., Milwaukee, Wis. "Besto Nut." (For a Spread for Bread.) No. 5,291; Aug. 17; v. 277; p. 583.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

A. B. C. Sales Company, Chicago, Ill. Electric vacuum or suction cleaners. No. 132,419; Aug. 17; v. 277; p. 569.

Abramson, Jennie, Chippewa Falls, Wis. Salve for skin eruptions. No. 130,010; Aug. 17; v. 277; p. 564.

Ada Milling Company, Ada, Okla. Wheat-flour. No. 134,000; Aug. 17; v. 277; p. 573.

Adam Brothers & Sellers Company, Houston, Tex. Canned vegetables and pork and beans with tomato sauce. No. 134,001; Aug. 17; v. 277; p. 574.

Alaska-California Fish & Ptg. Co., Monterey, Calif. Cured, salted, and smoked fish, sardine paste, &c. No. 131,297; Aug. 17; v. 277; p. 568.

American Burtonizing Company and Wallerstein Laboratories, New York, N. Y. Cereal extracts used as a substitute for malt. No. 130,258; Aug. 17; v. 277; p. 564.

American Burtonizing Company, New York, N. Y. Material used as a substitute for malt in making beverages. No. 104,895; Aug. 17; v. 277; p. 553.

American Electric Co., Chicago, Ill. Electric vacuum-cleaners. No. 132,676; Aug. 17; v. 277; p. 570.

American Hard Rubber Company, Hempstead and New York, N. Y. Hard-rubber knife, fork, and razor-handles and pumps. No. 134,002; Aug. 17; v. 277; p. 574.

American Lead Pencil Company, New York, N. Y. Lead, copying, and mechanical pencils. No. 127,528; Aug. 17; v. 277; p. 558.

American Povar Corporation, New York, N. Y. Furniture and automobile polish. No. 131,769; Aug. 17; v. 277; p. 568.

American Safety Razor Corporation, Brooklyn, N. Y. Razors, safety-razors, and safety-razor blades. No. 133,391; Aug. 17; v. 277; p. 571.

American Trading Co., New York, N. Y. Wheat-flour. No. 134,169; Aug. 17; v. 277; p. 575.

American Trading Co., New York, N. Y. Wheat-flour. No. 134,171; Aug. 17; v. 277; p. 575.

American Trading Co., New York, N. Y. Wheat-flour. No. 134,173; Aug. 17; v. 277; p. 576.

Amsterdam, Borgos & Adams, New York, N. Y. Ladies' hats and hat-frames. No. 123,833; Aug. 17; v. 277; p. 557.

Ardath Tobacco Company Limited, London, England. Cigarettes. No. 130,191; Aug. 17; v. 277; p. 564.

Ardath Tobacco Company Limited, London, England. Cigarettes. Nos. 130,193–4; Aug. 17; v. 277; p. 564.

Associated American Industries, Inc., New York, N. Y. Fancy cotton blankets, piece goods of robe-flannels, plushes, &c. No. 133,906; Aug. 17; v. 277; p. 573.

Atlanta Barbers Supply Co., The, Atlanta, Ga. Face and massage cream shampoo, &c. No. 111,686; Aug. 17; v. 277; p. 554.

Atlanta Barbers Supply Co., The, Atlanta, Ga. Toilet water. No. 111,687; Aug. 17; v. 277; p. 554.

Aulabaugh, C. E., Brosius, W. Va. Canned vegetables and fruit butter. No. 130,939; Aug. 17; v. 277; p. 567.

Bake-Rite Oven Manufacturing Company, Reno, Nev., and San Francisco, Calif. Cookies, cakes, pastry, fruits, nuts, &c. No. 125,169; Aug. 17; v. 277; p. 557.

Balson, Harold S., Toronto, Ontario, Canada. Blank or partly-printed tags. No. 113,461; Aug. 17; v. 277; p. 554.

Bianchini, Férier, Lyon, France. Piece goods of silk, wool, linen, &c. No. 130,792; Aug. 17; v. 277; p. 566.

Bianco & Gianassi, Alameda, Calif. Candies. No. 133,952; Aug. 17; v. 277; p. 573.

Blei, Jacob, New York, N. Y. Trunks. No. 129,442; Aug. 17; v. 277; p. 562.

Bloom Textile Co. Inc., The, New York, N. Y. Piece goods of silk, silk and cotton mixture, &c. No. 127,168; Aug. 17; v. 277; p. 558.

Bonn, Otto W., New York, N. Y. Non-fermentable-body sugar and a syrup thereof. No. 121,655; Aug. 17; v. 277; p. 556.

Boott Mills, Lowell, Mass. Blue drillings in the piece. No. 115,800; Aug. 17; v. 277; p. 554.

Boretz Mercantile Company, El Paso, Tex. Hosiery, underwear, shirts, overalls, hats, &c. No. 129,039; Aug. 17; v. 277; p. 561.

Boston Belting Company, Boston, Mass. Roller-covers. No. 134,005; Aug. 17; v. 277; p. 574.

Brand & Oppenheimer, New York, N. Y. Cotton cloths in the piece. No. 131,555; Aug. 17; v. 277; p. 568.

Brand & Oppenheimer, New York, N. Y. Linings, twills, drills, &c. No. 127,995; Aug. 17; v. 277; p. 559.

Brown, W. H., Son & Co., New York, N. Y. Chintz. No. 116,651; Aug. 17; v. 277; p. 555.

Buchanan, W. D., Co., The, Greenville, Ohio. Candy. No. 129,692; Aug. 17; v. 277; p. 563.

Burpee-Johnson Company, Indianapolis, Ind. Shock-absorbers. No. 132,135; Aug. 17; v. 277; p. 569.

Cafemarine Chemical Corporation, The, Detroit, Mich. Pharmaceutical preparation for influenza, colds, headaches, &c. No. 127,795; Aug. 17; v. 277; p. 559.

California Wine Association, San Francisco, Calif. Flowers of sulfur. No. 129,697; Aug. 17; v. 277; p. 563.

Canepa, John B., Company, The, Chicago, Ill. Cereal paste goods. No. 133,651; Aug. 17; v. 277; p. 572.

Carreras Limited, London, England. Smoking and chewing tobacco, cigars, and cigarettes. No. 129,623; Aug. 17; v. 277; p. 563.

Claassen, Arthur, Jr., Philadelphia, Pa. Insecticide. No. 128,882; Aug. 17; v. 277; p. 561.

Cohen & Lang, Inc., New York, N. Y. Boys' suits and overcoats. No. 133,764; Aug. 17; v. 277; p. 572.

Cohen & Lang, Inc., New York, N. Y. Men's suits and overcoats. No. 133,765; Aug. 17; v. 277; p. 572.

Cohen, Henry, & Co., New York, N. Y. Ladies' waists. No. 132,082; Aug. 17; v. 277; p. 569.

Cohen, Samuel, Baltimore, Md. Neckties. No. 134,010; Aug. 17; v. 277; p. 574.

Comins, J. F., & Co., New York, N. Y. Hosiery and knitted underwear. No. 134,009; Aug. 17; v. 277; p. 574.

Commander Mill Co., Minneapolis, Minn. Wheat-flour. No. 108,353; Aug. 17; v. 277; p. 553.

Continental Serum Laboratories Co., Muscatine, Iowa. Worm medicine for swine. No. 118,828; Aug. 17; v. 277; p. 555.

Convertex Corporation, The, New York, N. Y. Cotton suitings for women's wear. No. 133,823; Aug. 17; v. 277; p. 573.

Co-Operative Drug Company, Inc., Wilmington, Del., and Philadelphia, Pa. Eye-water, (chlorbutanol,) worm-syrup, &c. No. 131,897; Aug. 17; v. 277; p. 568.

Cortland Overall Co., Cortland, N. Y. Work-clothes. No. 133,870; Aug. 17; v. 277; p. 573.

Cramer & Casper, Enid, Okla. Preparation for the treatment of kidney, liver, and stomach troubles. No. 129,624; Aug. 17; v. 277; p. 563.

Croft & Allen Company, Philadelphia, Pa. Chocolate-candy confectionery. No. 132,163; Aug. 17; v. 277; p. 569.

Crotty, Charley A., Sacramento, Calif. Hair-color restorer. No. 129,306; Aug. 17; v. 277; p. 562.

Coudurier, Fructus & Descher, Lyon, France, and New York, N. Y. Silk piece goods. No. 134,109; Aug. 17; v. 277; p. 575.

Del Castillo, Rafael, & Co., New York, N. Y. Cotton piece goods. No. 130,981; Aug. 17; v. 277; p. 567.

Diament, John E., Company, Cedarville, N. J. Canned pears and tomatoes. No. 114,462; Aug. 17; v. 277; p. 554.

Dittmann, George F., Boot & Shoe Co., St. Louis, Mo. Rubber boots. No. 133,611; Aug. 17; v. 277; p. 571.

Dorothy Dodd Shoe Company, Boston, Mass. Boots, shoes, slippers, and spats. No. 132,597; Aug. 17; v. 277; p. 569.

Edison Pen Company, Incorporated, Petersburg, Va. Fountain-pens and pen-points. No. 131,949; Aug. 17; v. 277; p. 569.

F. l. A. T. Fabbrica Italiana Automobili Torino, Turin, Italy. Small-arms, rifles, bombs, &c. No. 111,431; Aug. 17; v. 277; p. 554.

Farmers Union State Exchange, Omaha, Nebr. Work-shirts. No. 128,771; Aug. 17; v. 277; p. 561.

Ferritone Chemical Company, Council Bluffs, Iowa. Laxative pills. No. 129,591; Aug. 17; v. 277; p. 562.

Fischer, Albert C., Chicago, Ill. Hairpins, shoe, middy, and corset lacings, hooks and eyes, &c. No. 130,825; Aug. 17; v. 277; p. 567.

Ford & Cohen, Boston, Mass. Drawers, shirts, union-suits, sweaters, coats, and hosiery. No. 134,017; Aug. 17; v. 277; p. 574.

Foreign Patents Corporation, The, New York, N. Y. Motion-picture-projecting machines and parts thereof. No. 134,887; Aug. 17; v. 277; p. 578.

Freeland, Helen, Los Angeles, Calif. Dress foundations and linings. No. 127,683; Aug. 17; v. 277; p. 558.

Frisbie Motor Company, The, Middletown, Conn. Internal-combustion engines. No. 133,255; Aug. 17; v. 277; p. 570.

Firsching, Joseph A., Utica, N. Y. Underwear. No. 132,784; Aug. 17; v. 277; p. 570.

Fritsche, Rudolf, New York, N. Y. Photographic developing compound. No. 130,028; Aug. 17; v. 277; p. 564.

Ganow, Stacy B., New York, N. Y. Neutralizing solvent and eliminant of retained animo acids and uric acid in the blood. No. 129,319; Aug. 17; v. 277; p. 562.

Gerber, Chas. A., New York, N. Y. Ladies' hats. No. 133,535; Aug. 17; v. 277; p. 571.
Girl Scouts, New York, N. Y. Coats, skirts, blouses, &c. No. 133,558; Aug. 17; v. 277; p. 571.
Gleason's, Edwin P., Son, Inc., New York, N. Y. Cotton piece goods. No. 128,001; Aug. 17; v. 277; p. 559.
Gleason's, Edwin P., Son, Inc., New York, N. Y. Cotton piece goods. No. 133,534; Aug. 17; v. 277; p. 571.
Glemby, S., Inc., New York, N. Y. Hair-nets. No. 111,199; Aug. 17; v. 277; p. 553.
Gottmann, Theodore, & Sons, Chicago, Ill. Marshmallows. No. 134,363; Aug. 17; v. 277; p. 576.
Grasi & Dabah, New York, N. Y. Chambrays, tickings, and sateens all in the piece goods. No. 134,020; Aug. 17; v. 277; p. 574.
Grietens, George, New York, N. Y. Table-dressings. No. 134,021; Aug. 17; v. 277; p. 574.
Guthrie & Company Limited, Singapore, Straits Settlements, and London, England. Dry paste, ready-mixed paints, and varnishes. No. 129,594; Aug. 17; v. 277; p. 562.
Hachmeister-Lind Chemical Company, Pittsburgh, Pa. Oil, auto, bar, &c., soaps, emery cake, metal-cleaner, &c. No. 129,715; Aug. 17; v. 27; p. 563.
Hanovia Chemical and Manufacturing Company, Newark, N. J. Therapeutic ultra-violet-ray air-cooled quartz lamp. No. 131,071; Aug. 17; v. 277; p. 567.
Hathaway, C. F., & Sons, North Cambridge, Mass. Bread. No. 117,975; Aug. 17; v. 277; p. 555.
Havana Commercial Company, New York, N. Y. Cigars. No. 131,326; Aug. 17; v. 277; p. 568.
Heco Envelope Company, Chicago, Ill. Mailing-envelops. No. 130,139; Aug. 17; v. 277; p. 564.
Hollinshed, Chas., Co., The, New York, N. Y. Choice refined deodorized soy-bean oil. No. 134,644; Aug. 17; v. 277; p. 577.
Ideal Bath Robe Co., Inc., New York, N. Y. Infants' bathrobes. No. 133,736; Aug. 17; v. 277; p. 572.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Cocoa-butter for medicinal use. No. 127,127; Aug. 17; v. 277; p. 558.
Jenckes Spinning Company, Pawtucket, R. I. Textile fabrics in the piece for the manufacture of tires. No. 123,740; Aug. 17; v. 277; p. 557.
Johnston, James, Spokane, Wash. Coffee. No. 110,347; Aug. 17; v. 277; p. 53.
Jones, E. F., Coffee Company, St. Louis, Mo. Coffee. No. 134,648; Aug. 17; v. 277; p. 577.
Juvenile Shoe Corporation of America, St. Louis, Mo. Boots, shoes, and sandals. No. 128,349; Aug. 17; v. 277; p. 560.
K-W Medicine Co., The, Smith Grove, Ky. Remedy for piles. No. 129,554; Aug. 17; v. 277; p. 562.
Kaufmann, Henry L., Louisville, Ky. Rubber sheeting in the piece or roll. No. 127,968; Aug. 17; v. 277; p. 559.
Kemp, Edward W., Cleveland, Ohio. Laundry bluing. No. 134,824; Aug. 17; v. 277; p. 578.
Kerr, Alex., Bros. & Co., Philadelphia, Pa. Salt. Nos. 128,096–7; Aug. 17; v. 277; p. 560.
Kimberly-Clark Company, Neenah, Wis. Book-paper. No. 120,612; Aug. 17; v. 277; p. 556.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 116,578; Aug. 17; v. 277; p. 555.
Laboratorio Chimico Farmac. V. Baldacci, Pisa, Italy. Pharmaceutical preparation for the treatment of the nervous system, &c. Nos. 126,416–17; Aug. 17; v. 277; p. 558.
Lafronz, Nicola, West New York, N. J. Phonographs. No. 133,096; Aug. 17; v. 277; p. 570.
Lakeside Biscuit Co., The, Toledo, Ohio. Sugar wafers. No. 133,740; Aug. 17; v. 277; p. 572.
Lehn & Fink, Inc., New York, N. Y. Shaving cream and soap. No. 118,922; Aug. 17; v. 277; p. 555.
Lexington Syrup Canning & Mfg. Co., Lexington, Ky. Table-syrups. No. 134,476; Aug. 17; v. 277; p. 576.
Lincoln Typewriter Co., New York, N. Y. Typewriters. No. 120,837; Aug. 17; v. 277; p. 556.
Linsk, Harry J., Philadelphia, Pa. Ladies', misses', and children's dresses. No. 133,097; Aug. 17; v. 277; p. 570.
Loeb, Joseph Company, Cincinnati, Ohio. Women's, misses', and children's hats. No. 130,966; Aug. 17; v. 277; p. 567.
Lomax Co., The, Chicago, Ill. Non-alcoholic, malt-less, non-cereal, carbonated beverage. No. 132,797; Aug. 17; v. 277; p. 570.
Louisville Food Products Company, Louisville, Ky. Soap powder. No. 134,025; Aug. 17; v. 277; p. 575.
Lowe, Joe, Co. Inc., New York, N. Y. Bread, cake, pies, and icec ream. No. 120,348; Aug. 17; v. 277; p. 558.
Marabou Trading Company, Incorporated, New York, N. Y. Confectionery. No. 119,712; Aug. 17; v. 277; p. 556.
Madame Irene, New York, N. Y. Corsets. No. 133,828; Aug. 17; v. 277; p. 573.
Manhattan Musical Instrument Co., New York, N. Y. Mandolins, banjos, drums, &c. No. 132,875; Aug. 17; v. 277; p. 570.
McRae Wholesale Hardware Company, Helena, Ark. Inner tubes for pneumatic tires. No. 122,220; Aug. 17; v. 277; p. 557.
Mead Johnson & Co., Evansville, Ind. Manufactured product composed of dextrin, maltrose, &c. Nos. 118,691–2; Aug. 17; v. 277; p. 555.
Mead Johnson & Co., Evansville, Ind. Infants' food. No. 118,693; Aug. 17; v. 277; p. 555.
Merchants' Coffee Co. of N. O. Ltd., New Orleans, La. Coffee. No. 128,513; Aug. 17; v. 277; p. 560.
Merck & Co., New York, N. Y. Extract of digitalis in powder, solution, and tablets. No. 129,599; Aug. 17; v. 277; p. 562.
Metropol, Jack G., Manning, S. C. Non-alcoholic, non-cereal, maltless, beverages and syrups for making same. No. 132,653; Aug. 17; v. 277; p. 570.
Miller Rubber Company, The, Akron, Ohio. Rubber baby-pants and diaper-covers. No. 131,743; Aug. 17; v. 277; p. 568.
Morris, Lillian B., Yonkers, N. Y. Cakes and candles. No. 124,942; Aug. 17; v. 277; p. 557.
Morse, A. G., Co., Chicago, Ill. Candy. No. 134,544; Aug. 17; v. 277; p. 576.
Mount Vernon-Woodberry Mills, Incorporated, Baltimore, Md. Cotton duck. Nos. 133,629–31; Aug. 17; v. 277; p. 572.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. No. 129,018; Aug. 17; v. 277; p. 561.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs. Nos. 130,376–87; Aug. 17; v. 277; pp. 564–6.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs. Nos. 134,654–8; Aug. 17; v. 277; pp. 577–8.
National Equipment Company, Springfield, Mass. Machines for separating candies from starch or the like. No. 133,745; Aug. 17; v. 277; p. 572.
New York Boys' Shops, Inc., New York, N. Y. Necktles, mufflers, and ear-laps. No. 133,792; Aug. 17; v. 277; p. 573.
Norton, Alfred J., Leicester, England. Stockings, socks, vests, trousers, &c. No. 132,313; Aug. 17; v. 277; p. 569.
Ocean Paint Works, Inc., Brooklyn, N. Y. Dry, paste, and ready-mixed paints, marine paints, &c. Nos. 129,337–8; Aug. 17; v. 277; p. 562.
Oeters, Albertine, Philadelphia, Pa. Water-paint. No. 129,738; Aug. 17; v. 277; p. 563.
Old Baldy Citrus Association, Upland, Calif. Fresh citrus fruit. Nos. 134,382–4; Aug. 17; v. 277; p. 576.
O'Loane, Kiely & Co. Ltd., Vancouver, British Columbia, Canada. Canned fish. No. 134,380; Aug. 17; v. 277; p. 576.
Osborne Paper Company, Marion, Ind. Writing and printing papers and writing-tablets. No. 125,758; Aug. 17; v. 277; p. 558.
Penn Garment Company, Inc., Williamsport, Pa. Work and dress shirts and shirt-waists. No. 124,946; Aug. 17; v. 277; p. 557.
Penton Publishing Company, The, Cleveland, Ohio. Semi-monthly technical periodical. No. 128,019; Aug. 17; v. 277; p. 559.
Perfect, Mary, San Diego, Calif. Slippers for babies. No. 132,608; Aug. 17; v. 277; p. 569.
Peterson, Willie, Newark, N. J. Medicine used in the treatment of blood. No. 129,602; Aug. 17; v. 277; p. 563.
Philadelphia Quartz Company, Philadelphia, Pa. Sodium silicate. Nos. 129,741–2; Aug. 17; v. 277; pp. 563–4.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap flakes. No. 135,017; Aug. 17; v. 277; p. 579.
Reading Hat & Cap Co., New York, N. Y. Hats and caps. No. 133,895; Aug. 17; v. 277; p. 573.
Red Wing Company, Inc., The, Fredonia, N. Y. Grape jam, raspberry preserves, currant jelly, catsup, &c. No. 134,665; Aug. 17; v. 277; p. 578.
Reis, Robert, & Co., New York, N. Y. Clothing, underwear, hosiery, &c. No. 133,428; Aug. 17; v. 277; p. 571.
Ridenour Garment Co., South Bend, Ind. Suspender-waists. No. 133,682; Aug. 17; v. 277; p. 572.
Roelofsna, Tom, New York, N. Y. Smocks, dresses, skirts, &c. No. 133,228; Aug. 17; v. 277; p. 570.
Royal Packing Co., Los Angeles, Calif. Pimientos morrones. No. 134,215; Aug. 17; v. 277; p. 576.
Rubberized Sheeting & Specialty Co., Inc., New York, N. Y. Sanitary bloomers. No. 131,714; Aug. 17; v. 277; p. 568.
Russ, Evangelist F., Chicago, Ill. Salve, for eczema, scrofula, itch, &c. No. 134,791; Aug. 17; v. 277; p. 578.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Velveta and plushes in the piece. No. 119,753; Aug. 17; v. 277; p. 556.
Scheel, William H., New York, N. Y. Lacquer compositions. No. 131,831; Aug. 17; v. 277; p. 568.
Schnuck, Edward F., White Plains, N. Y. Coffee. No. 132,613; Aug. 17; v. 277; p. 569.
Searcy, Aaron T., Chicago, Ill. Liquid for cleaning leather. No. 135,076; Aug. 17; v. 277; p. 579.
Seattle Paint Company, Seattle, Wash. Ready-mixed paints. No. 111,082; Aug. 17; v. 277; p. 553.
Simmons Company, Kenosha, Wis. Metal bedsteads, springs, cribs, cots, &c. No. 131,048; Aug. 17; v. 277; p. 567.

Simons Manufacturing Company, Chicago, Ill. Paint enamel for metal and the like. No. 127,782; Aug. 17; v. 277; p. 559.
Sionim Brothers, Duluth, Minn. Hose, underwear, sweaters, caps, necktles, &c. No. 124,697; Aug. 17; v. 277; p. 557.
Smith & Sons Manufacturing Company, Kansas City, Mo. Wheel-scrapers, grading-plows, road-graders. No. 133,029; Aug. 17; v. 277; p. 570.
Solway Dyeing & Textile Company, Pawtucket, R. I. Dyed yarns. No. 129,289; Aug. 17; v. 277; p. 561.
Sorosis Garment Company, Ionia, Mich. Children's and boys' play-suits. No. 129,425; Aug. 17; v. 277; p. 562.
Strauss Brothers, Baltimore, Md. Cambric piece goods. No. 131,406; Aug. 17; v. 277; p. 568.
Sun-Light Arc Corporation, New York, N. Y. Arc-lights used in motion-picture work, &c. No. 122,616; Aug. 17; v. 277; p. 557.
Swine Breeders Service, Chicago, Ill. Fumigating-liquid. No. 129,100; Aug. 17; v. 277; p. 561.
Tedmor Waist Company, New York, N. Y. Outer waists. No. 130,497; Aug. 17; v. 277; p. 566.
Tennessee Biscuit Company, Nashville, Tenn. Oyster-crackers, lemon-snaps, fig-bars, &c. No. 134,223; Aug. 17; v. 277; p. 576.
Tennessee Biscuit Company, Nashville, Tenn. Soda-crackers, vanilla-wafers, cookles, &c. No. 134,222; Aug. 17; v. 277; p. 576.
Thurm, Browne & Cohen, Inc., New York, N. Y. Veilings, nettings, and chiffons in the piece. No. 127,743; Aug. 17; v. 277; p. 559.
Tiffany & Company, New York, N. Y. Chinaware, bric-a-brac, earthenware, &c. No. 128,243; Aug. 17; v. 277; p. 560.
Tiffany & Company, New York, N. Y. Tobacco-pipes, cigar and cigarette holders and cases, &c. Nos. 128,228–9; Aug. 17; v. 277; p. 560.
Toula, Z. A., Corporation, New York, N. Y. Receptacles to be carried on the wrist to contain powder, &c. No. 127,875; Aug. 17; v. 277; p. 559.
Transcontinental Oil Co., Pittsburgh, Pa. Carbon or water-white burning-oils, kerosene, benzin, &c. No. 128,331; Aug. 17; v. 277; p. 560.
Troy Carriage Sun Shade Company, The, Troy, Ohio. Mailing-packages. No. 129,686; Aug. 17; v. 277; p. 563.
United Rubber Company, The, Akron, Ohio. Rubber vehicle-tire casing and tubes. No. 133,339; Aug. 17; v. 277; p. 571.
United Sales Syndicate Ltd., San Francisco, Calif. Face, toilet, sachet, &c., powders, toilet water, colognes, &c. No. 113,270; Aug. 17; v. 277; p. 554.
Universal Boring Machine Company, Hudson, Mass. Metal-boring machines. No. 134,045; Aug. 17; v. 277; p. 575.
Varsity Underwear Company, Baltimore, Md. Pajamas, night shirts and robes, underwear, &c. No. 122,029; Aug. 17; v. 277; p. 556.
Vibroplex Company, Inc., The, New York, N. Y. Telegraphic sending-machines. No. 132,331; Aug. 17; v. 277; p. 569.
Voorhees Rubber Mfg. Co., Jersey City, N. J. Hose. No. 110,636; Aug. 17; v. 277; p. 553.
Westinghouse Union Battery Co., Swissvale, Pa. Secondary batteries, and connectors therefor. No. 134,681; Aug. 17; v. 277; p. 578.
Washington Motor Company, The, Eaton, Ohio. Automobiles. No. 133,597; Aug. 17; v. 277; p. 571.
Whitman, Stephen F., & Son, Philadelphia, Pa. Candy. No. 130,936; Aug. 17; v. 277; p. 567.
White, Fred H., Charlotte, N. C. Cocoa-pudding. No. 119,690; Aug. 17; v. 277; p. 556.
Wippel, Elsie, Cincinnati, Ohio. Body-tissue tonic, headache-powder, laxative tablets, &c. No. 127,071; Aug. 17; v. 277; p. 558.
York Chemical Works, York, Pa. Fertilizers. No. 134,100; Aug. 17; v. 277; p. 575.
York Manufacturing Company, York, Pa. Refrigerating and ice-making systems and parts thereof. No. 134,166; Aug. 17; v. 277; p. 575.
Zatso Chemical Company, Ashland, Wis. Preparation for the treatment of corns. No. 129,034; Aug. 17; v. 277; p. 561.
Zell-Straub Laboratories, Chicago, Ill. Antiseptic and bactericidal agent for use in both human and veterinary fields. No. 129,117; Aug. 17; v. 277; p. 561.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 17TH DAY OF AUGUST, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid and other nitrogen compounds from atmospheric air, Manufacturing nitric. J. F. Sanders. No. 1,349,919; Aug. 17; v. 277; p. 473.
Acid, Manufacture of picric. L. G. Badier. No. 1,349,802; Aug. 17; v. 277; p. 451.
Adjustable cutter. F. H. Korff and S. H. Humphrey. No. 1,349,967; Aug. 17; v. 277; p. 483.
Adjustable wrench. E. M. Pauley. No. 1,349,852; Aug. 17; v. 277; p. 461.
Advertising device. E. J. Baker. No. 1,350,054; Aug. 17; v. 277; p. 499.
Advertisement and other papers, Holder for. R. Neddo. No. 1,349,906; Aug. 17; v. 277; p. 471.
Aerial condenser. L. P. Litzinger, P. F. Conerty, and W. Snodgrass. No. 1,349,681; Aug. 17; v. 277; p. 428.
Aeroplane-controlling device. C. R. Fairey. No. 1,350,145; Aug. 17; v. 277; p. 517.
Air-brakes, Cut-off and relief valve for. E. P. Clauss. No. 1,350,138; Aug. 17; v. 277; p. 515.
Air-compressor. S. A. Johnson. No. 1,350,159; Aug. 17; v. 277; p. 519.
Air-vent. C. F. Nystrom. No. 1,350,109; Aug. 17; v. 277; p. 510.
Air-washer. W. H. L. Donaldson. No. 1,349,608; Aug. 17; v. 277; p. 414.
Aircraft seat-support. A. V. Roe. No. 1,350,266; Aug. 17; v. 277; p. 540.
Alarm: *See*—
Burglar-alarm.
Alarm device. W. W. Miller. No. 1,349,904; Aug. 17; v. 277; p. 470.
Alcohol and making same, Absolute. G. B. Frankforter. No. 1,350,254; Aug. 17; v. 277; p. 538.
Alloy. F. Milliken. No. 1,350,166; Aug. 17; v. 277; p. 521.
Alloys containing nickel, Producing metallic. M. N. Salvati. No. 1,349,918; Aug. 17; v. 277; p. 473.
Aluminium from aluminic oxid, Producing. V. Gerber. No. 1,350,150; Aug. 17; v. 277; p. 518.
Aluminium from materials containing aluminic oxid, Porducing nitrid of. V. Gerber. No. 1,350,149; Aug. 17; v. 277; p. 518.
Ammonia synthesis, Forming a mixture of hydrogen and nitrogen for. G. P. Gerfin and M. Mauran. No. 1,349,756; Aug. 17; v. 277; p. 443.
Amusement device. A. Pinto. No. 1,350,176; Aug. 17; v. 277; p. 523.
Amusement device. J. Stanley and J. C. Porter. No. 1,350,086; Aug. 17; v. 277; p. 506.
Anvil attachment. H. Trouts. No. 1,349,927; Aug. 17; v. 277; p. 474.
Armor, Bullet-proof. G. O. Brewster. No. 1,350,062; Aug. 17; v. 277; p. 501.
Auto-theft signal. J. W. Marr. No. 1,350,032; Aug. 17; v. 277; p. 495.
Automobile-cowl attachment. J. H. Coffman. No. 1,349,715; Aug. 17; v. 277; p. 435.
Automobile-creeper. W. J. Broome. No. 1,349,941; Aug. 17; v. 277; p. 477.
Automobile-locking device. C. F. Norton. No. 1,349,849; Aug. 17; v. 277; p. 460.
Automobile-rim, Collapsible. L. B. Olney. No. 1,350,262; Aug. 17; v. 277; p. 539.
Automobile-running-board truss-rods, Repair-clamp for. G. K. Caviness. No. 1,350,253; Aug. 17; v. 277; p. 538.
Automobile-sled-runner attachment. G. W. Corsepius. No. 1,350,069; Aug. 17; v. 277; p. 502.
Automobile traffic-signal. S. Olszewski. No. 1,349,689; Aug. 17; v. 277; p. 430.
Automobiles and other vehicles, Shock-absorber for. J. B. Moore. No. 1,349,781; Aug. 17; v. 277; p. 447.
Aviator's safety device. J. R. Navarre. No. 1,349,782; Aug. 17; v. 277; p. 447.
Axle implements, Power-lift for crank-. F. M. Mecum. No. 1,349,900; Aug. 17; v. 277; p. 470.
Axle-stand. J. H. Staley. No. 1,350,119; Aug. 17; v. 277; p. 512.
Bag. J. C. Bergen. No. 1,349,654; Aug. 17; v. 277; p. 422.
Baked goods, Manufacture of. A. F. Härtzell. No. 1,350,278; Aug. 17; v. 277; p. 543.
Balance-wheel, Compensating. I. Povelsen. No. 1,350,035; Aug. 17; v. 277; p. 496.
Ball: *See*—
Darning-ball.
Basket-nailing machine. O. H. Kilmer and P. Madison. No. 1,349,965; Aug. 17; v. 277; p. 482.
Bass-drum-operating mechanism. J. D. Williams. No. 1,350,195; Aug. 17; v. 277; p. 527.
Battery-terminal fastening. A. F. Hawkins. No. 1,349,957; Aug. 17; v. 277; p. 480.
Bed. R. F. Hellweg. No. 1,350,155; Aug. 17; v. 277; p. 519.
Bed-canopy. C. L. Van Tuyl. No. 1,349,929; Aug. 17; v. 277; p. 475.
Bed, Folding. N. B. Douglass. No. 1,349,946; Aug. 17; v. 277; p. 478.
Bed, Folding davenport-. O. A. Honsinger. No. 1,349,883; Aug. 17; v. 277; p. 467.
Bed, Wall-. J. Sorensen. No. 1,349,738; Aug. 17; v. 277; p. 439.
Bearing. J. F. Stachowski. No. 1,350,245; Aug. 17; v. 277; p. 536.
Bearing, Roller-. N. A. Palmgren. No. 1,350,263; Aug. 17; v. 277; p. 540.
Bell. A. Roy. No. 1,349,694; Aug. 17; v. 277; p. 431.
Berth. R. Phelan and F. Bendix. No. 1,350,081; Aug. 17; v. 277; p. 505.
Binder attachment. H. H. Roberts. No. 1,349,855; Aug. 17; v. 277; p. 461.
Binder-board. F. E. Crompton. No. 1,350,141; Aug. 17; v. 277; p. 516.
Blood removing and etherizing apparatus. A. C. Hunt. No. 1,349,766; Aug. 17; v. 277; p. 444.
Board: *See*—
Binder-board. Sounding-board.
Boat detector, Sunken-. E. G. Haun. No. 1,350,224; Aug. 17; v. 277; p. 532.
Boiler: *See*—
Marine boiler.
Boiler-unit-assembling rack. J. Pierce, Jr. No. 1,350,236; Aug. 17; v. 277; p. 534.
Boilers, Baffle for water-tube. E. Kidwell. No. 1,349,574; Aug. 17; v. 277; p. 407.
Boilers, Circulation in water-tube. H. E. Yarrow. No. 1,350,200; Aug. 17; v. 277; p. 528.
Bolt: *See*—
Expansion-bolt.
Bolt holder, Wall-. J. J. Mulkern. No. 1,349,977; Aug. 17; v. 277; p. 485.
Book-lock. S. Salop. No. 1,349,857; Aug. 17; v. 277; p. 462.
Boot. C. W. Hubbell. No. 1,349,572; Aug. 17; v. 277; p. 406.
Boots and shoes, Vulcanizing-mold for. D. F. Wilhelmi. No. 1,349,796; Aug. 17; v. 277; p. 450.
Booth, Marking, listing, and assorting. R. H. Tyner. No. 1,349,699; Aug. 17; v. 277; p. 431.
Borax from potassium chlorid, Separating. N. Wrinkle and W. A. Kubnert. No. 1,350,090; Aug. 17; v. 277; p. 506.
Bottle-cap. C. M. Rice. No. 1,350,238; Aug. 17; v. 277; p. 535.
Bottle-closure. H. Goldstein. No. 1,349,830; Aug. 17; v. 277; p. 456.
Bottle cover, Milk-. C. W. Mosley. No. 1,350,167; Aug. 17; v. 277; p. 521.
Bottling-machine. A. E. Swanson. No. 1,350,249; Aug. 17; v. 277; p. 537.
Box: *See*—
Cardboard box. Sand-box.
Piston-rod packing-box. Tool-box.
Salt and pepper box. Vanity-box.
Boxes, Cover for service-. J. W. Gibney. No. 1,349,610; Aug. 17; v. 277; p. 414.
Bracket and clamp, Combined. A. A. H. Griffin. No. 1,350,221; Aug. 17; v. 277; p. 532.
Brazing and welding compound and preparing same. J. Klein. No. 1,349,966; Aug. 17; v. 277; p. 483.
Breast-drill. K. Drozd. No. 1,350,144; Aug. 17; v. 277; p. 516.
Brush-making machines, Mouthpiece for. J. W. Mayer. No. 1,349,845; Aug. 17; v. 277; p. 459.
Buckle, Belt-. H. E. Billings. No. 1,350,207; Aug. 17; v. 277; p. 529.
Buckle, Belt-. F. W. Lewis. No. 1,350,076; Aug. 17; v. 277; p. 504.
Bucket, Excavating-. W. M. Venable. No. 1,350,124; Aug. 17; v. 277; p. 513.

Building construction. D. C. Patterson. No. 1,349,850; Aug. 17; v. 277; p. 460.
Building, Storage-. F. E. d'Humy. No. 1,349,604; Aug. 17; v. 277; p. 424.
Building structure. J. Harkness. No. 1,350,019; Aug. 17; v. 277; p. 492.
Bunk. C. G. Janson and C. J. Braun. No. 1,349,962; Aug. 17; v. 277; p. 482.
Burglar-alarm, Automatic. F. A. Terry. No. 1,350,188; Aug. 17; v. 277; p. 525.
Burner: *See*—
Fuel-burner. Hydrocarbon-fuel burner.
Gas-burner.
Burnishing machine, Top-lift-. F. J. Tisdell. No. 1,349,863; Aug. 17; v. 277; p. 463.
Button. H. H. Helwig. No. 1,349,761; Aug. 17; v. 277; p. 443.
Button, Collar-. N. Blattberg. No. 1,349,872; Aug. 17; v. 277; p. 465.
Button, Collar-. A. J. Freeman. No. 1,349,825; Aug. 17; v. 277; p. 455.
Cabinet, Electric sewing-machine. E. A. Kopf and M. Hemleb. No. 1,349,678; Aug. 17; v. 277; p. 427.
Cable-recorder attachment. F. S. Whitney. No. 1,350,193; Aug. 17; v. 277; p. 526.
Cabinet, Food-service. M. J. Stern. No. 1,349,634; Aug. 17; v. 277; p. 419.
Cabinet, Record-. E. C. Fremaux. No. 1,350,146; Aug. 17; v. 277; p. 517.
Cabinet, Sewing-machine. E. A. Kopf and M. Hemleb. No. 1,349,679; Aug. 17; v. 277; p. 427.
Caffein, Manufacture of. R. L. Datta. No. 1,350,092; Aug. 17; v. 277; p. 507.
Calculating-machine gears, Over-rotation check for. E. E. Phinney. No. 1,349,628; Aug. 17; v. 277; p. 417.
Calendar. P. Rice. No. 1,350,114; Aug. 17; v. 277; p. 511.
Caliper, Micrometer-. F. O. Jaques, Sr. No. 1,349,612; Aug. 17; v. 277; p. 414.
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Bottle. H. R. Weller. No. 56,110; Aug. 17; v. 277; p. 550.
Bottle-stopper. F. Rustant. Nos. 56,107–8; Aug. 17; v. 277; p. 550.
Casket, Burial-. J. E. Case. No. 56,096; Aug. 17; v. 277; p. 548.
Cigar-holder, Pocket. F. Wojciechowski. No. 56,112; Aug. 17; v. 277; p. 551.
Cigar lighter and inkstand, Combined. L. V. Aronson. No. 56,093; Aug. 17; v. 277; p. 548.
Container. H. Brill. No. 56,095; Aug. 17; v. 277; p. 548.
Cup, Metal sponge-. H. Merkel and R. W. Guy. No. 56,101; Aug. 17; v. 277; p. 549.
Curtain, Automobile side-. R. K. Thomson. No. 56,109; Aug. 17; v. 277; p. 550.
Highway-guide device. W. E. McMullan and H. J. Hickey. No. 56,102; Aug. 17; v. 277; p. 549.
Lamp. C. E. Godley. No. 56,098; Aug. 17; v. 277; p. 548.
Shingle, Roofing-. C. Russell. No. 56,106; Aug. 17; v. 277; p. 550.
Stand. W. F. Faas. No. 56,097; Aug. 17; v. 277; p. 548.
Statuette. J. J. Kearney and G. H. Winter. No. 56,100; Aug. 17; v. 277; p. 549.
Stove, Oil-. F. E. White. No. 56,111; Aug. 17; v. 277; p. 551.
Tire. A. J. Pennington. Nos. 56,103–5; Aug. 17; v. 277; pp. 549–50.
Watch-dial. F. A. Goodrow. No. 56,099; Aug. 17; v. 277; p. 549.

ALPHABETICAL LIST OF TRADE-MARKS.

Adding, listing, and calculating machines. Wales Adding Machine Company. No. 134,199; Aug. 17; v. 277; p. 582.
Alloys, Aluminum. Continental Castings Corp. No. 134,163; Aug. 17; v. 277; p. 581.
Automobile accessory. Orange Manufacturing Company. No. 134,186; Aug. 17; v. 277; p. 582.
Belt conveyers, Roller-brackets for. Stephens-Adamson Manufacturing Co. No. 134,194 Aug. 17; v. 277; p. 582.
Braiding-machines and parts thereof. Wardwell Braiding Machine Company. No. 134,200; Aug. 17; v. 277; p. 582.
Carbureters. The Aero Products Company. No. 134,148; Aug. 17; v. 277; p. 581.
Castings, Malleable-iron. West Virginia Malleable Iron Co. No. 134,204; Aug. 17; v. 277; p. 582.
Cookers, Animal-feed. The Hartman Company. No. 134,168; Aug. 17; v. 277; p. 581.
Coverings for attachment to the platens or rolls of typewriters and adding-machines, Protective. C. I. Hendricks. No. 134,170; Aug. 17; v. 277; p. 581.
Cranes, Chesapeake Iron Works. No. 134,155; Aug. 17; v. 277; p. 581.
Cutlery. C. F. Maus. Nos. 134,182-3; Aug. 17; v. 277; p. 582.
Cutlery and dies for engraving stationery, &c. Tiffany & Company. No. 134,196; Aug. 17; v. 277; p. 582.
Cutlery, machinery, tools. Aktiebolaget Ingenlörsfirman G. A. Lindstedt & Co. No. 134,149; Aug. 17; v. 277; p. 581.
Die-heads, collapsible taps, threading, and screw machines, Automatic. The Eastern Machine Screw Corporation. No. 134,165; Aug. 17; v. 277; p. 581.
Dish-washing and metal-parts-washing machines. Bromley Mcreles Mfg. Co. No. 134,207; Aug. 17; v. 277; p. 582.
Enameled ware, Steel. The Jacob J. Vollrath Mfg. Co. No. 134,198; Aug. 17; v. 277; p. 582.
Films, Cinematographic. Treefilm Company, Inc. No. 134,197; Aug. 17; v. 277; p. 582.
Fire-extinguishers, Hand. The Ralko Products Company. No. 134,189; Aug. 17; v. 277; p. 582.
Fishing-tools for wells. Arthur H. Brandon & Co. No. 134,154; Aug. 17; v. 277; p. 581.
Foods, drugs, and chemicals, Machinery and appliances used in their manufacture. Petri and Jones Company. No. 134,187; Aug. 17; v. 277; p. 582.
Forgings, Heat-treated. Heppenstall Forge and Knife Company. No. 134,171; Aug. 17; v. 277; p. 581.
Gas-engines and hoists for same, Marine and stationary. Standard Gas Engine Co. No. 134,193; Aug. 17; v. 277; p. 582.
Grain-drills, broadcast fertilizer-sowers, &c. The American Seeding-Machine Company. No. 134,152; Aug. 17; v. 277; p. 581.
Grease-cups. Hunter Pressed Steel Co. No. 134,174; Aug. 17; v. 277; p. 581.
Grinding machines, Stock-feed-. S. Cheney & Son. No. 134,161; Aug. 17; v. 277; p. 581.
Insecticide and fungicide. J. M. Jones. No. 134,177; Aug. 17; v. 277; p. 582.
Iron and steel, plain, corrugated, round, square, and flat. Tennessee Coal, Iron & Railroad Company. No. 134,195; Aug. 17; v. 277; p. 582.
Lenses for spectacles and eyeglasses, Optical. L. A. Heilig. No. 134,159; Aug. 17; v. 277; p. 581.
Machinery. Keystone Driller Company. No. 134,179; Aug. 17; v. 277; p. 582.
Machinery. Meisel Press Manufacturing Company. No. 134,184; Aug. 17; v. 277; p. 582.
Machinery and parts thereof. Jabez Burns & Sons. No. 134,160; Aug. 17; v. 277; p. 581.
Machinery and parts thereof. Machinenfabrik Schweiter A.-G. No. 134,180; Aug. 17; v. 277; p. 582.
Machinery, tools, and parts thereof. The Farm Equipment Co. No. 134,156; Aug. 17; v. 277; p. 581.
Machines and parts thereof. The Holt Manufacturing Company. No. 134,172; Aug. 17; v. 277; p. 581.
Machines, Calculating-. The American Calculating Machine Co. No. 134,150; Aug. 17; v. 277; p. 581.
Metals, Babbitt. Premium Metal & Packing Co. No. 134,188; Aug. 17; v. 277; p. 582.
Metals, Babbitt, bearing, and type. Great Western Smelting & Refining Company. No. 134,167; Aug. 17; v. 277; p. 581.
Milling, turning, and the like, Metal-working machinery, Blades and cutters for. The Haynes Stellite Co. No. 134,138; Aug. 17; v. 277; p. 581.
Motors and engines, Internal-combustion aviation-. Societe des Moteurs Gnome et Rhone. No. 134,192; Aug. 17; v. 277; p. 582.
Optical goods. J. C. Kahan. No. 134,178; Aug. 17; v. 277; p. 582.
Pipes, pipe-couplings, reducers, unions, and elbows, Metal. T. R. E. Miller. No. 134,185; Aug. 17; v. 277; p. 582.
Pulleys. Williams Patent Crusher & Pulverizer Co. No. 134,202; Aug. 17; v. 277; p. 582.
Pumps, Vacuum suction-. American Device Manufacturing Company. No. 134,151; Aug. 17; v. 277; p. 581.
Razor blades, Safety-. Simmons Hardware Company. No. 134,191; Aug. 17; v. 277; p. 582.
Saw-sets. N. O. Hedman. No. 134,169; Aug. 17; v. 277; p. 581.
Saws, Drag-. W. H. Worden Company. No. 134,205; Aug. 17; v. 277; p. 582.
Scoops, Sink-. S. Berger. No. 134,153; Aug. 17; v. 277; p. 581.
Soda-fountains and soda-water carbonators. The Russ Manufacturing Company. No. 134,190; Aug. 17; v. 277; p. 582.
Soldering compounds in powder form. R. S. Churchill. No. 134,162; Aug. 17; v. 277; p. 581.
Spraying devices. W. N. Matthews and Brother. No. 134,181; Aug. 17; v. 277; p. 582.
Steel bars, rods, billets, blooms, forgings, &c. Crucible Steel Company of America. No. 134,164; Aug. 17; v. 277; p. 581.
Steel, Cold-drawn. Wyckoff Drawn Steel Co. No. 134,206; Aug. 17; v. 277; p. 582.

Steel, Tool-. Edgar T. Ward's Sons Co. No. 134,203; Aug. 17; v. 277; p. 582.

Tank-balls. Essex Rubber Company. No. 134,166; Aug. 17; v. 277; p. 581.

Taps and valves of metal for general use with fluids. J. Jackson, Limited. No. 134,175; Aug. 17; v. 277; p. 581.

Tools. R. L. Johnson. No. 134,176; Aug. 17; v. 277; p. 581.

Tools. The Greb Company. No. 134,157; Aug. 17; v. 277; p. 581.

Tools. The Warren Tool and Forge Company. No. 134,201; Aug. 17; v. 277; p. 582.

Tractor accessories. Hughes & Curren Co. No. 134,173; Aug. 17; v. 277; p. 581.

ALPHABETICAL LIST OF LABELS.

"Acqza Di Chinina Magone." (For a Hair-Tonic.) R. Julian. No. 21,972; Aug. 17; v. 277; p. 583.

"Argonne Cavity Fluid." (For Cavity Fluid.) H. A. Slater. No. 21,980; Aug. 17; v. 277; p. 583.

"Argonne Embalming Fluid." (For Embalming Fluid.) H. A. Slater. No. 21,981; Aug. 17; v. 277; p. 583.

"Crescent." (For Malt-Products.) H. B. Fagan. No. 21,969; Aug. 17; v. 277; p. 583.

"Germa Stomach and Liver Tablets." (For Stomach and Liver Tablets.) A. W. O'Brian & Company. No. 21,978; Aug. 17; v. 277; p. 583.

"Kellogg's Krumbled Bran." (For a Food.) Kellogg Toasted Corn Flake Co.) No. 21,973; Aug. 17; v. 277; p. 583.

"Mack's Old Kentucky Fruitta Punch." (For a Flavoring-Syrup.) F. B. McCrary. No. 21,976; Aug. 17; v. 277; p. 583.

"Meje, a Compound of fresh skimmed Milk and Cocoanut Oil." (For a Compound of Milk and Vegetable Oil.) J. P. Gehl. No. 21,970; Aug. 17; v. 277; p. 583.

"O. B. C. Compound." (For a Foot Antiseptic Compound.) M. H. Boyle. No. 21,965; Aug. 17; v. 277; p. 583.

"Old Style Lady-Jefferson Candies Home Made." (For Candies.) Lady Jefferson Candy Company. No. 21,974; Aug. 17; v. 277; p. 583.

"Star Building Blocks." (For Building-Blocks.) American Novelty Works. No. 21,964; Aug. 17; v. 277; p. 583.

"Sub-Treatment for Goiter and Tumors." (For a Salve for the Treatment of Goiter and Tumors.) L. A. Hibshman. No. 21,971; Aug. 17; v. 277; p. 583.

"Sweet Hearts Quality." (For Plastic Skin-Lotions.) L. McNamara. No. 21,977; Aug. 17; v. 277; p. 583.

"Tesoro Rancho Fancy." (For Citrus Fruits.) A. S. Bradford. No. 21,967; Aug. 17; v. 277; p. 583.

"Tesoro Rancho Red Label." (For Citrus Fruits.) A. S. Bradford. No. 21,966; Aug. 17; v. 277; p. 583.

"The Mascot." (For Scalp-Ointment.) L. J. Larivee. No. 219,975; Aug. 17; v. 277; p. 583.

"Valley Brand." (For Fresh Apples.) Valley Fruit Co. Inc. No. 21,982; Aug. 17; v. 277; p. 583.

"Whole Wheat Bread." (For Whole-Wheat Bread.) Ralston Purina Company. No. 21,979; Aug. 17; v. 277; p. 583.

"World's Best Cafeteria Feeder." (For Live-Stock Feeders and Drinking-Fountains.) J. Q. Clarke Tank Co. No. 21,968; Aug. 17; v. 277; p. 583.

ALPHABETICAL LIST OF PRINTS.

"Besto Nut." (For a Spread for Bread.) Wisconsin Butterine Co. No. 5,291; Aug. 17; v. 277; p. 583.

"Drink Green River." (For Non-Alcoholic Beverages. Schoenhofen Company. No. 5,289; Aug. 17; v. 277; p. 583.

"Hays Gloves." (For Leather Gloves.) The Daniel Hays Company. No. 5,287; Aug. 17; v. 277; p. 583.

"Lectro Service Stand." (For Devices for Locating and Eliminating Short Circuits in and Recharging Magnets of Ford Magnetos.) Lectro Sales Company. No. 5,288; Aug. 17; v. 277; p. 583.

"Try a Green River Soda." (For Non-Alcoholic Beverages.) Schoenhofen Company. No. 5,290; Aug. 17; v. 277; p. 583.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Acids and uric acid in the blood, Neutralizing solvent and eliminant of retained amino. S. B. Ganow. No. 129,319; Aug. 17; v. 277; p. 562.

Antiseptic and bactericidal agent for use in both human and veterinary fields. Zeil-Straub Laboratories. No. 129,117; Aug. 17; v. 277; p. 561.

Arms, rifles, guns, shells, &c., Small. F. I. A. T. Fabbrica Italiana Automobili Torino. No. 111,431; Aug. 17; v. 277; p. 554.

Automobiles. The Washington Motor Company. No. 133,597; Aug. 17; v. 277; p. 571.

Batteries and connectors therefor, Secondary. Westinghouse Union Battery Co. No. 134,681; Aug. 17; v. 277; p. 578.

Bedsteads, springs, cribs, couches, &c., Metal. Simmons Company. No. 131,048; Aug. 17; v. 277; p. 567.

Beverage, Non-alcoholic, maltless, non-cereal, carbonated. The Lomax Co. No. 132,797; Aug. 17; v. 277; p. 570.

Beverages, Cereal extracts used as a substitute for malt in making. American Burtonizing Company and Wallerstein Laboratories. No. 130,258; Aug. 17; v. 277; p. 564.

Beverages, and syrups for making the same, Non-Alcoholic, non-cereal, maltless. J. G. Metropol. No. 132,653; Aug. 17; v. 277; p. 570.

Beverages, Substitute for malt in making. American Burtonizing Company. No. 104,895; Aug. 17; v. 277; p. 553.

Blankets, bath-robes, plushes, jeans, &c., Cotton. Associated American Industries. No. 133,906; Aug. 17; v. 277; p. 573.

Bloomers, Sanitary. Rubberized Sheeting & Specialty Co. No. 131,714; Aug. 17; v. 277; p. 568.

Bluing, Laundry. E. W. Kemp. No. 134,824; Aug. 17; v. 277; p. 578.

Boots, shoes, and sandals. Juvenile Shoe Corporation of America. No. 128,349; Aug. 17; v. 277; p. 560.

Boots, shoes, and slippers. Dorothy Dodd Shoe Company. No. 132,597; Aug. 17; v. 277; p. 569.

Boring machines, Metal-. Universal Boring Machine Company. No. 134,045; Aug. 17; v. 277; p. 575.

Bread. C. F. Hathaway & Sons. No. 117,975; Aug. 17; v. 277; p. 555.

Bread, cake, pies, &c. Joe Lowe Co. No. 120,348; Aug. 17; v. 277; p. 556.

Cakes and candies. L. B. Morris. No. 124,942; Aug. 17; v. 277; p. 557.

Cambric piece goods. Strauss Brothers. No. 131,406; Aug. 17; v. 277; p. 568.

Candles. Bianco & Gianassi. No. 133,952; Aug. 17; v. 277; p. 573.

Candy. The W. D. Buchanan Co. No. 129,692; Aug. 17; v. 277; p. 563.

Candy. A. G. Morse Co. No. 134,544; Aug. 17; v. 277; p. 576.

Candy. Stephen F. Whitman & Son. No. 130,936; Aug. 17; v. 277; p. 567.

Candy, confectionery, Chocolate-. Croft & Allen Company. No. 132,163; Aug. 17; v. 277; p. 569.

Canned fish. O'Loane, Kiely & Co. No. 134,380; Aug. 17; v. 277; p. 576.

Canned pears and tomatoes. John E. Diament Company. No. 114,462; Aug. 17; v. 277; p. 554.

Canned vegetables. Adam Brothers & Sellers Company. No. 134,001; Aug. 17; v. 277; p. 574.

Canned vegetables and fruit butter. C. E. Aulabaugh. No. 130,939; Aug. 17; v. 277; p. 567.

Chambrays, tickings, and sateens all in the piece goods. Grazi & Dabah. No. 134,020; Aug. 17; v. 277; p. 574.

Chinaware, bric-a-brac, earthenware, &c. Tiffany & Company. No. 128,243; Aug. 17; v. 277; p. 560.

Chintz. W. H. Brown Son & Co. No. 116,951; Aug. 17; v. 277; p. 555.

Cigarettes. Ardath Tobacco Company. No. 130,191; Aug. 17; v. 277; p. 564.

Cigarettes. Ardath Tobacco Company. Nos. 130,193–4; Aug. 17; v. 277; p. 564.

Cigars. Havana Commercial Company. No. 131,326; Aug. 17; v. 277; p. 568.

Cleaners, Electric vacuum-. American Electric Co. No. 132,676; Aug. 17; v. 277; p. 570.

Cleaners, Electric vacuum or suction. A. B. C. Sales Company. No. 132,419; Aug. 17; v. 277; p. 569.

Cleaning leather, Liquid for. A. T. Searcy. No. 135,076; Aug. 17; v. 277; p. 579.

Clothes, Work-. Cortland Overall Co. No. 133,870; Aug. 17; v. 277; p. 573.

Clothing. Robert Reis & Co. No. 133,428; Aug. 17; v. 277; p. 571.

Coats, shirts, blouses, &c. Girl Scouts. No. 133,558; Aug. 17; v. 277; p. 571.

Cocoa-butter. Ideal Cocoa & Chocolate Co. No. 127,127; Aug. 17; v. 177; p. 558.

Cookies, cakes, pastry, fruits, nuts, &c. Bake-Rite Oven Manufacturing Company. No. 125,169; Aug. 17; v. 177; p. 557.

Coffee. J. Johnston. No. 110,347; Aug. 17; v. 277; p. 553.

Coffee. E. F. Jones Coffee Company. No. 134,648; Aug. 17; v. 277; p. 577.

Coffee. Merchants' Coffee Co. of N. O. No. 128,513; Aug. 17, v. 277; p. 560.

Coffee. E. F. Schnuck. No. 132,613; Aug. 17; v. 277; p. 569.

Colors, Food. National Aniline & Chemical Company. No. 129,018; Aug. 17; v. 277; p. 561.

Confectionery. Marabou Trading Company. No. 119,712; Aug. 17; v. 277; p. 556.

Corsets. Madam Irene. No. 133,828; Aug. 17; v. 277; p. 573.

Cotton cloths in the piece. Brand & Oppenheimer. No. 131,555; Aug. 17; v. 277; p. 568.

Cotton duck. Mount Vernon-Woodberry Mills. Nos. 133,629–31; Aug. 17; v. 277; p. 572.

Cotton piece goods. Rafael Del Castillo & Co. No. 130,981; Aug. 17; v. 277; p. 567.

Cotton piece goods. Edwin P. Gleason's Son. No. 128,001; Aug. 17; v. 277; p. 559.

Cotton piece goods. Edwin P. Gleason's Sons. No. 133,534; Aug. 17; v. 277; p. 571.

Cotton suitings. The Convertex Corporation. No. 133,823; Aug. 17; vol. 277; p. 573.

Crackers, graham crackers, vanilla wafers, and soda. Tennessee Biscuit Company. No. 134,222; Aug. 17; v. 277; p. 576.

Crackers, lemon-snaps, fig-bars &c., Oyster-. Tennessee Biscuit Company. No. 134,223; Aug. 17, v. 277; p. 576.

Cream and shampoo and a preparation for cleaning the hair &c., Face and massage. The Atlantic Barbers' Supply Co. No. 111,686; Aug. 17; v. 277; p. 554.

Cream and soap, Shaving. Lehn & Fink. No. 118,922; Aug. 17; v. 277; p. 555.

Dextrin, maltose, &c., Manufactured product composed of. Mead Johnson & Co. Nos. 118,691–2; Aug. 17; v. 277; p. 555.

Digitalis extract. Merck & Co. No. 129,599; Aug. 17; v. 277; p. 562.

Drawers, shirts, coats, &c. Ford & Cohen. No. 134,017; Aug. 17; v. 277; p. 574.

Dress foundations and linings. H. Freeland. No. 127,683; Aug. 17; v. 277; p. 558.

Dresses. H. J. Linsk. No. 133,097; Aug. 17; v. 277; p. 570.

Dressings, Table-. G. Grietens. No. 134,021; Aug. 17; v. 277; p. 574.

Drillings in the piece, Blue. Bootts Mills. No. 115,800; Aug. 17; v. 277; p. 554.

Dyestuffs. National Aniline & Chemical Company. Nos. 130,376–87; Aug. 17; v. 277; pp. 564–6.

Dyestuffs. National Aniline & Chemical Company. Nos. 134,654–8; Aug. 17; v. 277; pp. 577–8.

Engines, Internal-combustion. The Frisble Motor Company. No. 133,255; Aug. 17; v. 277; p. 570.

Envelops. Mailing-. Heco Envelope Company. No. 130,139; Aug. 17; v. 277; p. 564.

Eye-water (chlorbutanol) worm-syrup, and cold-cream. Co-Operative Drug Company. No. 131,897; Aug. 17; v. 277; p. 568.

Fertilizers. York Chemical Works. No. 134,100; Aug. 17; v. 277; p. 575.

Fish, sardine paste, and canned berries, Cured, &c. Alaska-California Fish & Pkg. Co. No. 131,297; Aug. 17; v. 277; p. 568.

Flour, Wheat-. American Trading Co. No. 134,169; Aug. 17; v. 277; p. 575.

Flour, Wheat-. American Trading Co. No. 134,171; Aug. 17; v. 277; p. 575.

Flour, Wheat-. American Trading Co. No. 134,173; Aug. 17; v. 277; p. 576.

Flour, Wheat-. Ada Milling Company. No. 134,000; Aug. 17; v. 277; p. 573.

Flour, Wheat-. Commander Mill Co. No. 108,353; Aug. 17; v. 277; p. 553.

Food, Infants'. Mead Johnson & Co. No. 118,693; Aug. 17; v. 277; p. 555.

Fruit, Fresh citrus. Old Baldy Citrus Association. Nos. 134,382–4; Aug. 17; v. 277; p. 576.

Fumigating-liquid. Swine Breeders' Service. No. 129,100; Aug. 17; v. 277; p. 561.
Furniture and automobile polish. American Povar Corporation. No. 131,769; Aug. 17; v. 277; p. 568.
Hair-color restorer. C. A. Crotty. No. 129,306; Aug. 17; v. 277; p. 562.
Hair-nets. S. Glemby, Inc. No. 111,199; Aug. 17; v. 277; p. 553.
Hair-pins, shoe, middy, and corset lacings, &c. A. C. Fischer. No. 130,825; Aug. 17; v. 277; p. 567.
Hard-rubber knife, fork, and razor handles and hard-rubber pumps. American Hard Rubber Company. No. 134,002; Aug. 17; v. 277; p. 574.
Hats. Joseph Loeb Company. No. 130,966; Aug. 17; v. 277; p. 567.
Hats and caps. Reading Hat & Cap Co. No. 133,895; Aug. 17; v. 277; p. 573.
Hats and hat-frames, Ladies'. Amsterdam, Borgos & Adam. No. 123,833; Aug. 17; v. 277; p. 557.
Hats, Ladies'. C. A. Gerber. No. 133,535; Aug. 17; v. 277; p. 571.
Hides and leathers. Kullman, Salz & Co. No. 116,578; Aug. 17; v. 277; p. 555.
Hose. Voorhees Rubber Mfg. Co. No. 110,636; Aug. 17; v. 277; p. 556.
Hose, underwear, caps, neckties, &c. Slonim Brothers. No. 124,697; Aug. 17; v. 277; p. 557.
Hosiery and knitted underwear. J. F. Comins & Co. No. 134,009; Aug. 17; v. 277; p. 574.
Hosiery, underwear, shirts, caps, &c. Boretz Mercantile Company. No. 129,039; Aug. 17; v. 277; p. 561.
Insecticide. A. Claassen, Jr. No. 128,882; Aug. 17; v. 277; p. 561.
Jam, preserves, jelly, catsup, &c., Grape. The Red Wing Company. No. 134,665; Aug. 17; v. 277; p. 578.
Lacquer composition. W. H. Scheel. No. 131,831; Aug. 17; v. 277; p. 568.
Lamp, Therapeutic ultra-violet-ray air-cooled quartz. Hanovia Chemical and Manufacturing Company. No. 131,071; Aug. 17; v. 277; p. 567.
Laxative pills. Ferritone Chemical Company. No. 129,591; Aug. 17; v. 277; p. 562.
Lights to be used in motion-picture work, &c., Arc. Sun-Light Arc Corporation. No. 122,616; Aug. 17; v. 277; p. 557.
Linings, twills, drills, &c. Grand & Oppenheimer. No. 127,995; Aug. 17; v. 277; p. 559.
Machines for separating candies from starch or the like. National Equipment Company. No. 133,745; Aug. 17; v. 277; p. 572.
Mailing-packages. The Troy Carriage Sun Shade Company. No. 129,686; Aug. 17; v. 277; p. 563.
Mandolins, banjos, bugles, &c. Manhattan Musical Instrument Co. No. 132,875; Aug. 17; v. 277; p. 570.
Marshmallows. Theodore Gottmann & Sons. No. 134,363; Aug. 17; v. 277; p. 576.
Medicine for swine, Worm. Continental Serum Laboratories Co. No. 118,828; Aug. 17; v. 277; p. 555.
Neckties. S. Cohen. No. 134,010; Aug. 17; v. 277; p. 574.
Neckties, mufflers, and ear-laps. New York Boys' Shops. No. 133,792; Aug. 17; v. 277; p. 573.
Oil, Deodorized soy-bean. Chas. Hollinshed Co. No. 134,644; Aug. 17; v. 277; p. 577.
Oils, refined and semirefined petroleum, kerosene, &c., Carbon or water-white burning. Transcontinental Oil Co. No. 128,331; Aug. 17; v. 277; p. 560.
Paint enamel. Simon Manufacturing Company. No. 127,782; Aug. 17; v. 277; p. 559.
Paint, Water-. A. Oeters. No. 129,738; Aug. 17; v. 277; p. 563.
Paints. Ocean Paint Works. Nos. 129,337–8; Aug. 17; v. 277; p. 562.
Paints and varnishes. Guthrie & Company. No. 129,594; Aug. 17; v. 277; p. 562.
Paints, Ready-mixed. Seattle Paint Company. No. 111,082; Aug. 17; v. 277; p. 553.
Pajamas, night shirts and robes, underwear, &c. Varsity Underwear Company. No. 122,029; Aug. 17; v. 277; p. 556.
Paper, Book-. Kimberly-Clark Company. No. 120,612; Aug. 17; v. 277; p. 556.
Papers and writing-tablets, Writing and printing. Osborne Paper Company. No. 125,758; Aug. 17; v. 277; p. 558.
Paste goods, Cereal. The John B. Canepa Company. No. 132,651; Aug. 17; v. 277; p. 572.
Pencils, Lead, copying, and mechanical. American Lead Pencil Company. No. 127,528; Aug. 17; v. 277; p. 558.
Pens and pen-points, Fountain-. Edison Pen Company. No. 131,949; Aug. 17; v. 277; p. 569.
Periodical. The Penton Publishing Company. No. 128,019; Aug. 17; v. 277; p. 559.
Photographic developing compound. R. Fritsche. No. 130,028; Aug. 17; v. 277; p. 564.
Phonographs. N. Lafronz. No. 133,096; Aug. 17; v. 277; p. 570.
Picture-projecting machines and parts thereof, Motion-. The Foreign Patents Corporation. No. 134,887; Aug. 17; v. 277; p. 578.
Pimientos morrones. Royal Packing Co. No. 134,215; Aug. 17; v. 277; p. 576.
Pipes, cigar and cigarette holders and cases, &c., Tobacco-. Tiffany & Company. Nos. 128,228–9; Aug. 17; v. 277; p. 560.
Powders, Face, toilet, talcum, foot, &c., skin-lotions, perfumes, &c. United Sales Syndicate. No. 113,270; Aug. 17; v. 277; p. 554.
Preparation for influenza, colds, headache, &c., Pharmaceutical. The Cafenarine Chemical Corporation. No. 127,795; Aug. 17; v. 277; p. 559.
Preparation for the treatment of corns. Zatso Chemical Company. No. 129,034; Aug. 17; v. 277; p. 561.
Preparation for the treatment of kidney, liver, and stomach troubles. Cramer & Casper. No. 129,624; Aug. 17; v. 277; p. 563.
Preparation for the treatment of the nervous system, &c., Pharmaceutical. Laboratorio Chimico Farmac. V. Baldacci. No. 126,416; Aug. 17; v. 277; p. 558.
Preparation for the treatment of the pulmonary organs. Laboratorio Chimico Farmac. V. Baldacci. No. 126,417; Aug. 17; v. 277; p. 558.
Pudding, Cocoa. F. H. White. No. 119,690; Aug. 17; v. 277; p. 556.
Razors, safety-razors, and safety-razor blades. American Safety Razor Corporation. No. 133,391; Aug. 17; v. 277; p. 571.
Receptacles to be carried on the wrist. Z. A. Toula Corporation. No. 127,875; Aug. 17; v. 277; p. 559.
Refrigerating and ice-making systems and parts thereof. York Manufacturing Company. No. 134,166; Aug. 17; v. 277; p. 575.
Remedy for piles. The K-W Medicine Co. No. 129,554; Aug. 17; v. 277; p. 562.
Robes, Infants' bath-. Ideal Bath Robe Co. No. 133,736; Aug. 17; v. 277; p. 572.
Roller-covers. Boston Belting Company. No. 134,005; Aug. 17; v. 277; p. 574.
Rubber baby-pants and diaper-covers. The Miller Rubber Company. No. 131,743; Aug. 17; v. 277; p. 568.
Rubber boots. George F. Dittmann Boot & Shoe Co. No. 133,611; Aug. 17; v. 277; p. 571.
Rubber sheeting in the piece or roll. H. L. Kaufmann. No. 127,968; Aug. 17; v. 277; p. 559.
Salt. Alex. Kerr Bros. & Co. Nos. 128,096–7; Aug. 17; v. 277; p. 560.
Salve. J. Abramson. No. 130,010; Aug. 17; v. 277; p. 564.
Salve. E. F. Russ. No. 134,791; Aug. 17; v. 277; p. 578.
Scrapers, grading-plows, road-graders, Wheel-. Smith & Sons Manufacturing Company. No. 133,029; Aug. 17; v. 277; p. 570.
Shirts, dress-shirts, and shirt-waists, Work-. Penn Garment Company. No. 124,946; Aug. 17; v. 277; p. 557.
Shirts, Work-. Farmers Union State Exchange. No. 128,771; Aug. 17; v. 277; p. 561.
Shock-absorbers. Burpee-Johnson Company. No. 132,135; Aug. 17; v. 277; p. 569.
Silk, cotton, wool, &c., piece goods. The Bloom Textile Co. No. 127,168; Aug. 17; v. 277; p. 558.
Silk piece goods. Coudurier, Fructus & Descher. No. 134,109; Aug. 17; v. 277; p. 575.
Silk, wool, linen, cotton piece goods, and china-grass. Bianchini, Férier. No. 130,792; Aug. 17; v. 277; p. 566.
Slippers for babies. M. Perfect. No. 132,608; Aug. 17; v. 277; p. 569.
Smocks, dresses, shirt-waists, and hats. T. Roelofsna. No. 133,228; Aug. 17; v. 277; p. 570.
Soaps, scouring powder, emery cake, &c., Auto, bar, &c. Hachmeister-Lind Chemical Company. No. 129,715; Aug. 17; v. 277; p. 563.
Soap flakes. The Procter and Gamble Company. No. 135,017; Aug. 17; v. 277; p. 579.
Soap powder. Louisville Food Products Company. No. 134,025; Aug. 17; v. 277; p. 575.
Sodium silicate. Philadelphia Quartz Company. Nos. 129,741–2; Aug. 17; v. 277; p. 563–4.
Syrups, Table-. Lexington Syrup Canning Mfg. Co. No. 134,476; Aug. 17; v. 277; p. 576.
Stockings, socks, vests, pants, &c. A. J. Morton. No. 132,313; Aug. 17; v. 277; p. 569.
Sugar and a syrup thereof. O. W. Bonn. No. 121,655; Aug. 17; v. 277; p. 556.
Suits and overcoats, Boys'. Cohen & Lang. No. 133,764; Aug. 17; v. 277; p. 572.
Suits and overcoats, Men's. Cohen & Lang. No. 133,765; Aug. 17; v. 277; p. 572.
Suits, Children's and boys' play-. Sorosis Garment Company. No. 129,425; Aug. 17; v. 277; p. 562.
Sulfur, Flowers of. California Wine Association. No. 129,697; Aug. 17; v. 277; p. 563.
Tags, Blank or partly-printed. H. S. Balson. No. 113,461; Aug. 17; v. 277; p. 554.
Telegraphic sending-machines. The Vibroplex Company. No. 132,331; Aug. 17; v. 277; p. 569.
Textile fabrics in the piece for tires. Jenckes Spinning Company. No. 123,740; Aug. 17; v. 277; p. 557.
Tire casings and tubes, Rubber vehicle-. The United Rubber Company. No. 133,339; Aug. 17; v. 277; p. 571.
Tires, Inner tubes for pneumatic. McRae Wholesale Hardware Company. No. 122,220; Aug. 17; v. 277; p. 557.

Tobacco, cigars, and cigarettes. Carreras Limited. No. 129,623; Aug. 17; v. 277; p. 563.
Toilet water. The Atlanta Barbers' Supply Co. No. 111,687; Aug. 17; v. 277; p. 554.
Tonic, headache-powders, laxative tablets, &c., Body-tissue. E. Wippel. No. 127,071; Aug. 17; v. 277; p. 558.
Treatment of blood, Medicine used in the. W. Peterson. No. 129,602; Aug. 17; v. 277; p. 563.
Trunks. J. Blei. No. 129,442; Aug. 17; v. 277; p. 562.
Typewriters. Lincoln Typewriter Co. No. 120,837; Aug. 17; v. 277; p. 556.
Underwear. J. A. Firsching. No. 132,784; Aug. 17; v. 277; p. 570.
Velvets and plushes in the piece. The Salt's Textile Manufacturing Company. No. 119,753; Aug. 17; v. 277; p. 556.
Veilings, nettings, and chiffons in the piece. Thurm, Browne & Cohen. No. 127,743; Aug. 17; v. 277; p. 559.
Wafers, Sugar. The Lakeside Biscuit Co. No. 133,740; Aug. 17; v. 277; p. 572.
Waists, Ladies'. Henry Cohen & Co. No. 132,082; Aug. 17; v. 277; p. 569.
Waists, Outer. Tedmor Waist Company. No. 130,497; Aug. 17; v. 277; p. 566.
Waists, Suspender-. Ridenour Garment Co. No. 133,682; Aug. 17; v. 277; p. 572.
Yarns, Dyed. Solway Dyeing & Textile Company. No. 129,289; Aug. 17; v. 277; p. 561.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 17, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

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218— 15: R. 14,931
R. 14,932
219— 48: 1,350,280

219— 63: 1,349,583
220— 7: 1,349,799
44: 1,350,109
55: 1,349,610
93: 1,350,160
221— 80: 1,349,994
224— 29: 1,349,938
226— 70: 1,350,249
101: 1,350,161
228— 33: 1,350,242
229— 54: 1,349,654
230— 11: 1,350,191
30: 1,350,159
233— 18: 1,350,009
234— 5. 5: 1,350,174
235— 59: 1,349,561
60: 1,350,173
131: 1,349,628
236— 6: 1,350,061
26: 1,350,065
78: 1,349,954
237— 17: 1,350,066
238— 75: 1,349,949
112: 1,349,754
146: 1,350,198
205: 1,350,182
209: 1,350,129
216: 1,349,814
241: 1,350,215
253: 1,349,607
240— 2: 1,349,804
8. 5: 1,349,979
11: 1,349,651
41: 1,349,642
1,349,706
48. 4: 1,349,595
1,350,212

240— 48. 4: 1,350,277
61: 1,349,658
62: 1,350,262
244— 1: 1,349,893
2. 10: 1,350,211
12: 1,349,942
19: 1,350,201
21: 1,349,782
29: 1,350,145
30: 1,350,266
31: 1,349,677
1,349,770
246— 187: 1,349,834
190: 1,349,708
1,349,709
192: 1,349,984
294: 1,349,773
302: 1,349,986
247— 23: 1,349,978
248— 20: 1,349,566
1,349,842
30: 1,350,056
37: 1,349,621
41: 1,349,917
250— 17: 1,349,729
20: 1,350,100
41: 1,349,792
1,350,010
1,350,279
251— 48: 1,349,748
84: 1,349,605
94: 1,350,138
103: 1,349,823
119: 1,350,101
252— 1,350,157
253— 31: 1,350,187
76: 1,349,886

254— 65: 1,350,287
86: 1,350,036
106: 1,349,576
120: 1,349,581
126: 1,349,801
185: 1,349,803
192: 1,349,618
255— 4: 1,350,059
42: 1,349,641
257— 30: 1,349,681
166: 1,349,982
205: 1,349,810
224: 1,349,746
259— 73: 1,350,116
75: 1,350,115
99: 1,350,171
144: 1,349,988
261— 44: 1,349,835
79: 1,350,202
263— 14: 1,350,267
265— 54: 1,350,189
55: 1,350,130
267— 9: 1,349,781
19: 1,350,110
50: 1,350,217
274— 1: 1,349,611
2: 1,349,759
10: 1,349,705
23: 1,349,636
27: 1,349,604
46: 1,350,246
277— 66: 1,349,594
1,350,040
279— 42: 1,349,832
280— 21: 1,349,645
3. 5: 1,349,556
54: 1,350,058

280— 94: 1,349,653
106: 1,349,589
153: 1,350,234
163: 1,350,263
282— 4: 1,349,865
285— 3: 1,350,132
14: 1,350,006
22: 1,349,663
31: 1,349,894
69: 1,350,074
1,350,083
72: 1,349,586
146: 1,350,078
286— 23: 1,350,046
287— 90: 1,350,075
289— 12: 1,349,659
290— 38: 1,349,866
1,349,870
291— 28: 1,349,606
292— 173: 1,350,258
294— 19: 1,350,123
109: 1,350,053
131: 1,349,889
296— 37: 1,349,859
1,349,959
298— 10: 1,349,838
299— 12: 1,349,775
22: 1,349,703
58: 1,349,874
78: 1,350,205
83: 1,350,175
90: 1,350,133
301— 32: 1,350,262
302— 8: 1,349,948
52: 1,349,751
305— 7: 1,349,730

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 24TH DAY OF AUGUST, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, Arthur, Toronto, Ontario, Canada. Tableware-drainer. No. 1,350,351; Aug. 24; v. 277; p. 603.

Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heating unit. No. 1,350,910; Aug. 24; v. 277; p. 711.

Abbott, F. J., Jr. (See Vance, Arlyn T.)

Acme Oil & Drill Company. (See Pace, Jefferson D., assignor.)

Adams, James, R., Somerset, Pa. Wheel-hub and bearing. No. 1,350,851; Aug. 24; v. 277; p. 700.

Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and plumbing system. (Reissue.) No. 14,935; Aug. 24; v. 277; p. 731.

Ailes, Adrian S., assignor of sixty per cent. to J. H. Taft, Chicago, Ill. Auxiliary safe-lock. No. 1,350,766; Aug. 24; v. 277; p. 685.

Aktiebolaget Svenska Kullargerfabriken. (See Rydbeck, Patrik S., assignor.)

Albrecht, Hermen E., What Cheer, Iowa. Gambrel. No. 1,350,632; Aug. 24; v. 277; p. 659.

Alexander, Roy A., Bellingham, Wash. Varnished-surface burnisher. No. 1,350,537; Aug. 24; v. 277; p. 640.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Wireless signaling system. No. 1,350,911; Aug. 24; v. 277; p. 711.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Radioreceiving system. No. 1,350,912; Aug. 24; v. 277; p. 711.

Allen, Joseph C., *et al.* (See Cox, A., and Evans.)

Allen, Marion, *et al.* (See Davis, Claude B., assignor.)

Allsworth, Robert I., New York, N. Y. Wall construction. No. 1,350,633; Aug. 24; v. 277; p. 659.

Alton, William H., New York, N. Y. and A. C. Battelle, assignors, by mesne assignments, to A. C. Battelle, Chicago, Ill. Filler. No. 1,350,694; Aug. 24; v. 277; p. 671.

American Concrete Forms Company. (See Belt, W. M., and Smith, assignors.)

American Laundry Machinery Company, The. (See Braley, C. L., and Waream, assignors.)

American Machine & Manufacturing Company. (See Davidson, Joseph, assignor.)

American Optical Company. (See Arnold, Arthur A., assignor.)

American Photo Player Company. (See Van Valkenburg, Burt B., assignor.)

American Rubber Company. (See Gibbons, Willis A., assignor.)

American Steel Foundries. (See Carscadin, Charles A., assignor.)

American Steel Foundries. (See Trowbridge, William S., assignor.)

Anchor Rubber Company, The. (See Pastor, Frank, assignor.)

Anderson, David G., Columbus, Ohio, assignor to The Ohio Malleable Iron Company. Casting-machine. No. 1,350,352; Aug. 24; v. 277; p. 603.

Angle, Lloyd. (See Eby, P., and Angle.)

Arndt, Franklin E., assignor of one-half to D. C. Boyd, Galion, Ohio. Engine-manifold. No. 1,350,431; Aug. 24; v. 277; p. 619.

Arndt, John P., Milwaukee, Wis. Fuse-switch. No. 1,350,432; Aug. 24; v. 277; p. 619.

Arnold, Arthur A., Southbridge, Mass., assignor to American Optical Company. Swaging-machine. No. 1,350,634; Aug. 24; v. 277; p. 659.

Arnold, Arthur E., Llandudno, Wales. Coal cabinet, scuttle, and the like. No. 1,350,913; Aug. 24; v. 277; p. 711.

Arnold-Creager Company. (See Graham, Henry W. B., assignor.)

Arnold Wahl Institute, The. (See Wahl, Arnold S., assignor.)

Arrow Bottlers Machinery Company, trustee. (See Gaynor, John J., assignor.)

Arrow-Grip Manufacturing Company. (See Avery, True M., assignor.)

Arrow Phonograph Corporation. (See Matthews, Frederick W., assignor.)

Art in Buttons. (See Eby and Angle, assignors.)

Artmaier, Hans, Racine, Wis. Dental-instrument-grinding device. No. 1,350,951; Aug. 24, v. 277; p. 719.

Aschburner, Fredrick C., Chicago, Ill. Stethoscope. No. 1,350,767; Aug. 24; v. 277; p. 685.

Asselstine, Burton, *et al.* (See Mowatt, Alexander, assignor.)

Atkins, Earl F. (See Atkins, Frank K., and E. F.)

Atkins, Frank K. and E. F., New York, N. Y. Filter. No. 1,350,433; Aug. 24; v. 277; p. 620.

Auto-Ordnance Corporation. (See Eickhoff, Theodore H., assignor.)

Auto-Ordnance Corporation. (See Payne, Oscar V., assignor.)

Automatic Electric Company. (See Martin, Talbot G., assignor.)

Automatic Electric Company. (See Powell, Winfred T., assignor.)

Avery Company. (See Van Valkenburg, Lester R., assignor.)

Avery, True M., assignor to Arrow-Grip Manufacturing Co., Inc., Glens Falls, N. Y. Chain-connector. No. 1,350,952; Aug. 24; v. 277; p. 719.

Ayres, Richard S., Brookline, Mass. Process and apparatus for heel manufacture. No. 1,350,852; Aug. 24; v. 277; p. 701.

Bailey, William F. A., assignor, by mesne assignments, to Non Skid Company of America, Boston, Mass. Anti-skidding device for tires. No. 1,350,484; Aug. 24; v. 277; p. 630.

Bair, Joseph H., Haddonfield, N. J. Washing-machine. No. 1,350,353; Aug. 24; v. 277; p. 603.

Baker, George R., assignor to Joseph Baker and Sons Limited, London, England. Coating confections and the like. No. 1,350,538; Aug. 24; v. 277; p. 640.

Baker, John S., Los Angeles, Calif. Ballot. No. 1,350,914; Aug. 24; v. 277; p. 712.

Baker, Joseph, and Sons. (See Baker, George R., assignor.)

Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamically-controlled socket-switch for electric lights. No. 1,350,587; Aug. 24; v. 277; p. 651.

Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamic extinguishing device for lamps. No. 1,350,588; Aug. 24; v. 277; p. 651.

Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Time-retarded extinguishing device for gas-burners. No. 1,350,589; Aug. 24; v. 277; p. 651.

Baker, Marie H., administratrix. (See Baker, Malcolm H., assignor.)

Baker, Newton D., Secretary of War, trustee. (See Carothers, John N., assignor.)

Baker, R & L Company, The. (See Gruenfeldt, Emil, assignor.)

Bakke, Carl O., Fertile, Minn. Belt. No. 1,350,915; Aug. 24; v. 277; p. 712.

Ball, Arthur T., Ranger, Tex. Shaft-bearing. No. 1,350,953; Aug. 24; v. 277; p. 720.

Baltes, Walter H., Milwaukee, Wis. Signal-light for automobiles. No. 1,350,539; Aug. 24; v. 277; p. 641.

Bar and Stroud. (See Barr, A., Stroud, and d'Albe, assignors.)

Barbour, William T., and W. L. Mersfelder, assignors to Detroit Stove Works, Detroit, Mich. Stove-door. No. 1,350,768; Aug. 24; v. 277; p. 685.

Bard, Jacob W., and O. White, assignors to Sangamo Electric Company, Springfield, Ill. Graphic recording [illegible] No. 1,350,485; Aug. 24; v. 277; p. 630.

Barletta, Peter, Lyndhurst, N. J. Alarm-clock. No. 1,350,693; Aug. 24; v. 277; p. 671.

Barnett, Otto R. (See Sponenburg, Hiram H., assignor.)

Barr, Archibald. W. Stroud, Anniesland, Glasgow, Scotland, and E. E. F. d'Albe, London, England, assignors to Barr and Stroud, Limited, Glasgow, Scotland. Optophone. No. 1,350,954; Aug. 24; v. 277; p. 720.

Barrett, Ferdinand A., Jr., Niagara Falls, N. Y. Switch. No. 1,350,916; Aug. 24; v. 277; p. 712.

Parsness, Herman J., Black Earth, Wis. Cement section for circular buildings. No. 1,350,434; Aug. 24; v. 277; p. 620.

Bartlett, Henry B., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Thickness-gage. No. 1,350,769; Aug. 24; v. 277; p. 685.

Bates, W. B., and E. L. Stone, Roanoke, Va. Community-mail-box support. No. 1,350,770; Aug. 24; v. 277; p. 686.

Battelle, Albert C. (See Alton, W. H., and Alton.)

Bausch & Lomb Optical Company. (See Drescher, Theodore B., assignor.)

Bayne, George G., Bushnell, Ill. Auxiliary radius-truss for automobiles. No. 1,350,771; Aug. 24; v. 277; p. 686.

Beal, Ralph B., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,350,695; Aug. 24; v. 277; p. 671.

Beaty, Wilbur L., South Butte, Mont. Reel-seat. No. 1,350,635; Aug. 24; v. 277; p. 659.

Beaty, Wilbur L., South Butte, Mont. Reel-seat for fishing-rods. No. 1,350,636; Aug. 24; v. 277; p. 660.

Beaty, Wilbur L., South Butte, Mont. Reel-seat for fishing-rods. No. 1,350,637; Aug. 24; v. 277; p. 660.

Beck, Oscar F., Lawndale, J. W. Speers and R. E. Jones, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Vulcanizing apparatus. No. 1,350,696; Aug. 24; v. 277; p. 671.

Becker, Rudolph, assignor to The Singer Manufacturing Company, Roselle Park, N. J. Work-holder. No. 1,350,290; Aug. 24; v. 277; p. 591.

Beckman, William, Sealy, Tex. Oil-burner. No. 1,350,917; Aug. 24; v. 277; p. 713.

Bell, Mary V., Oakland, Calif. Ripping-needle. No. 1,351,010; Aug. 24; v. 277; p. 730.

Belt, William M., and H. C. Smith, assignors, by mesne assignments, to American Concrete Forms Company, Bloomington, Ill. Centering means and forming monolithic arches. No. 1,350,772; Aug. 24; v. 277; p. 686.

Belvin, Preston, Richmond, Va. Floor-oiler. No. 1,350,638; Aug. 24; v. 277; p. 660.

Bentley, Joseph H., Bridgeport, Conn. Vise-handle. No. 1,350,773; Aug. 24; v. 277; p. 686.

Bereznay, John, Throop, Pa. Railway-gate. No. 1,350,639; Aug. 24; v. 277; p. 660.

Berliner, Abraham. (See Berliner, Isidor, A., and S.)

Berliner, Isidor, A., and S., Toronto, Ontario, Canada. Telephonic apparatus. No. 1,350,291; Aug. 24; v. 277; p. 591.

Berliner, Samuel. (See Berliner, Isidor, A., and S.)

Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington, New York, N. Y. Filtering materials. No. 1,350,292; Aug. 24; v. 277; p. 591.

Bertrand, Frederic E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,350,354; Aug. 24; v. 277; p. 604.

Beurrier, Alexis, E. Bigourdan, and L. Lacoin, Paris, France. Flying-machine with revolving wings. No. 1,350,982; Aug. 24; v. 277; p. 725.

Bickley, Everett H., Southbridge, Mass. Means employed in production and material control systems. No. 1,350,955; Aug. 24; v. 277; p. 720.

Bigourdan, Edouard. (See Beurrier, A., Bigourdan, and Lacoin.)

Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electric switch and box. No. 1,350,486; Aug. 24; v. 277; p. 631.

Bjorn, Jens A., Jamestown, N. Y. Machine for graining wood. No. 1,350,918; Aug. 24; v. 277; p. 713.

Blackman, Horace L., Janesville, Wis. Pencil. No. 1,350,983; Aug. 24; v. 277; p. 725.

Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Plural-sheet detector. No. 1,350,487; Aug. 24; v. 277; p. 631.

Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Shifting plate-clamp. No. 1,350,488; Aug. 24; v. 277; p. 631.

Blank, Martin R., and L. F. Sitkiewitz, Thiensville, Wis. Can-handling device. No. 1,350,984; Aug. 24; v. 277; p. 726.

Blair, Wiley A., *et al.* (See Herrington, John A. D., assignor.)

Blasdale, Frederick W. (See Muschenheim, F. A., and Blasdale.)

Blood, Harold L., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Feed mechanism for planers. No. 1,350,540; Aug. 24; v. 277; p. 641.

Blumrick, George, assignor to Weisbach Company, Gloucester, N. J. Gas-lighting device and making same. No. 1,350,853; Aug. 24; v. 277; p. 701.

Bock, Herman, Meriden, Conn. Machine for hardening knife-blades. No. 1,350,697; Aug. 24; v. 277; p. 671.

Boedtcher, Franz A., Bergenfield, N. J. Elevator-door lock. No. 1,350,698; Aug. 24; v. 277; p. 671.

Bond, John P., Portland, Oreg. Brake-band. No. 1,350,985; Aug. 24; v. 277; p. 726.

Booth, Earl C., Indianapolis, Ind., assignor to Holcomb & Hoke Manufacturing Company. Peanut-roaster. No. 1,350,541; Aug. 24; v. 277; p. 641.

Booth, Earl C., Indianapolis, Ind., assignor to Holcomb & Hoke Manufacturing Company. Display device. No. 1,350,542; Aug. 24; v. 277; p. 641.

Bouvier, George A., Detroit, Mich. Adjustable frame for shipping vehicles. No. 1,350,699; Aug. 24; v. 277; p. 672.

Boyd, David C. (See Arndt, Franklin E., assignor.)

Brach, Leon S., New York, N. Y. Recording apparatus for railway-signals. No. 1,350,355; Aug. 24; v. 277; p. 604.

Brackenbury, E. W., assignor to The T. L. Smith Company, Milwaukee, Wis. Concrete-mixer. No. 1,350,293; Aug. 24; v. 277; p. 591.

Bradford Dyers Association. (See Whitaker, Harold, assignor.)

Bragg, Willie T., *et al.* (See Davis, Claude B., assignor.)

Braley, Charles L., and C. E. Waream, Cincinnati, assignors to The American Laundry Machinery Company, Norwood, Ohio. Chain conveyer. No. 1,350,774; Aug. 24; v. 277; p. 686.

Brauer, August, deceased, Independence, assignor of one-half to G. P. A. Weisenborn, Kansas City, Mo.; C. Brauer, executrix. Rotary pump. No. 1,350,775; Aug. 24; v. 277; p. 687.

Brauer, Charlotta, executrix. (See Brauer, August.)

Bräuning, Karl A., Zaandam, Netherlands. Automatic firearm. No. 1,350,543; Aug. 24; v. 277; p. 641.

Brecht, Frank v., and H. W. Tohts, assignors to Gus V. Brecht Butchers' Supply Company, St. Louis, Mo. Carcass scraping and polishing machine. No. 1,350,435; Aug. 24; v. 277; p. 620.

Brecht, Gus V., Butchers' Supply Company. (See Brecht, F. v., and Tohts, assignors.)

Brill, Ira D., Marlington, W. Va. Lock. No. 1,350,356; Aug. 24; v. 277; p. 604.

Brilliant, Mark L., San Francisco, Calif., assignor of one-half to C. E. Brinkman. Davenport-bed. No. 1,351,011; Aug. 24; v. 277; p. 731.

Brinkman, Charles E. (See Brilliant, Mark L., assignor.)

Brogden, Joseph T., Providence, R. I., assignor to Revere Rubber Company. Bathing-hat. No. 1,350,776; Aug. 24; v. 277; p. 687.

Brown Bag Filling Machine Company. (See Brown, Benjamin F., assignor.)

Brown, Benjamin F., assignor to Brown Bag Filling Machine Co., Fitchburg, Mass. Conveyer for bags. No. 1,350,777; Aug. 24; v. 277; p. 687.

Brooks, Robert O. (See Hughes, William E., assignor.)

Brooks, Thomas A., Newton, Kans. Gas-screen. No. 1,350,700; Aug. 24; v. 277; p. 672.

Bropson, James, Cleveland, Ohio. Repair-plug. No. 1,350,489; Aug. 24; v. 277; p. 631.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,350,640; Aug. 24; v. 277; p. 660.

Brown, Henry C., Merion, and E. John, Ardmore, Pa., assignors to Victor Talking Machine Company. Container for talking-machine styli. No. 1,350,294; Aug. 24; v. 277; p. 592.

Brown, M. Lewis, assignor to Universal Metal Company, Detroit, Mich. Channel-tubing. No. 1,350,544; Aug. 24; v. 277; p. 642.

Brown, William H. (See Kennedy, James G., assignor.)

Buckham, George T. (See Dawson, A. T., and Buckham.)

Buffalo Truck and Tractor Corporation, The. (See Oversmith, Elmer H., assignor.)

Burgess, Tom, Corinth, Miss. Harness-hook. No. 1,350,778; Aug. 24; v. 277; p. 687.

Burton, Charles S., Oak Park, Ill. Container for music-rolls and the like. No. 1,350,701; Aug. 24; v. 277; p. 672.

Burton, Isaac F., Philadelphia, Pa., assignor to Victor Talking Machine Company. Sound-box for sound recording and reproducing machines. No. 1,350,590; Aug. 24; v. 277; p. 651.

Cannon, Francis P. (See Wilbur, M. D., Cannon, and Murphy.)

Cardinell, Thomas, Mound City, Mo. Tire-casing spreader. No. 1,350,779; Aug. 24; v. 277; p. 687.

Carlson, Frederick E., assignor to Landers, Frary & Clark, New Britain, Conn. Detachable handle. No. 1,350,641; Aug. 24; v. 277; p. 660.

Carlson, John. (See Johnson, Dolph, assignor.)

Carlson, John M., Sandstone, Minn. Car-door. No. 1,350,919; Aug. 24; v. 277; p. 713.

Carothers, John N., Washington, D. C., assignor to N. D. Baker, Secretary of War, trustee. Fertilizer and making same. No. 1,350,591; Aug. 24; v. 277; p. 652.

Carroll, Andrew L., assignor of one-half to G. McKenzie, St. Louis, Mo. Shock-absorbing wheel. No. 1,350,642; Aug. 24; v. 277; p. 661.

Carscadin, Charles A., assignor, by mesne assignments, to American Steel Foundries, Chicago, Ill. Yoke for draft-gears. No. 1,350,436; Aug. 24; v. 277; p. 620.

Carter, Harry G., Northfield, N. H. Business-record and income-tax book. No. 1,350,854; Aug. 24; v. 277; p. 701.

Carter, John P., Carter, Mont. Bolster-stirrup. No. 1,350,780; Aug. 24; v. 277; p. 687.

Catucci, Pliny, and A. Vasselli, Newark, N. J., assignor, by mesne assignments, to The Harriman National Bank of the City of New York, trustee. Stop mechanism for talking-machines. No. 1,350,781; Aug. 24; v. 277; p. 688.

Catucci, Pliny, and L. D. Nadel, Newark, N. J., assignors, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Fluid-regulator. No. 1,350,782; Aug. 24; v. 277; p. 688.

Caudron, René, Issy-les-Moulineaux, France. Arrangement of flexible members. No. 1,350,986; Aug. 24; v. 277; p. 726.

Cave, Antoine M., St. Etienne, France. Alkaline accumulator. No. 1,350,956; Aug. 24; v. 277; p. 720.

Central Scientific Company. (See de Khotinsky, Achilles, assignor.)

Cereghino, Louis J., Alameda, Calif. Combined flytrap and garbage-can. No. 1,350,402; Aug. 24; v. 277; p. 613.

Champeau, Lawrence X., Jersey City, N. J., assignor to Kirby, Champeau Co., Inc., New York, N. Y. Illuminating means. No. 1,350,295; Aug. 24; v. 277; p. 592.

Champion Ignition Company. (See Schmidt, Albert, assignor.)

Champion, John W., Pueblo, Colo. Rail-clamping device for metal ties. No. 1,350,855; Aug. 24; v. 277; p. 701.

Chase, Rutherford B., Chicago, Ill. Cleaning and polishing apparatus. No. 1,350,403; Aug. 24; v. 277; p. 613.

Chemical Foundation, The. (See Klever, H., Lautenschläger, and Göhring, assignors.)

Chemical Foundation, The. (See Lilienfeld, Leon, assignor.)

Chemical Foundation, The. (See Meyerhofer, Albert F., assignor.)

Cherry, Verner A., Granite City, Ill. Child's bicycle-seat. No. 1,350,987; Aug. 24; v. 277; p. 726.

Chicago Flexible Shaft Company. (See Kocourek, Henry, assignor.)

Chlorine Products Company. (See Jewell, William M., assignor.)

Chomyn, Harry, Fox Valley, Saskatchewan, Canada. Railway joint. No. 1,350,783; Aug. 24; v. 277; p. 688.

Church, Edmund S., Chicago, Ill. Oil-can. No. 1,350,702; Aug. 24; v. 277; p. 672.

Churchward, Alexander, New York, N. Y. Starting mechanism for internal-combustion engines. No. 1,350,703; Aug. 24; v. 277; p. 673.

Clark, Edward O., assignor of one-half to E. S. Redeker, Spokane, Wash. Piston-ring clamp. No. 1,350,704; Aug. 24; v. 277; p. 673.

Clarke, Athol W., Chorlton-cum-Hardy, near Manchester, England. Apparatus for recording or indicating the movements of a mass. No. 1,350,705; Aug. 24; v. 277; p. 673.

Clarkson, Thomas, Chelmsford, England. Feed-water supply apparatus for steam-generators. No. 1,350,988; Aug. 24; v. 277; p. 726.

Cleveland Tractor Company, The. (Reissue.) (See White, Rollin H., assignor.)

Cobb, Charles H., Great Falls, Mont. Railway signal-lamp. No. 1,350,357; Aug. 24; v. 277; p. 604.

Cobb, Schuyler C. (See Frazier, George E., assignor.)

Coes, Harold V. (See Rhodes, G. I., and Coes.)

Colburn, Temple H., Minneapolis, Minn. Soap-cake retainer. No. 1,350,784; Aug. 24; v. 277; p. 688.

Commercial Cars Construction Company. (See Rogers, Solomon D., assignor.)

Cone, Thomas H. S., Boundbrook, N. J. Testing system. No. 1,350,358; Aug. 24; v. 277; p. 605.

Continental Motors Corporation. (See Weinhardt, Robert A., assignor.)

Cook, Walter H., London, England. Combined nut and washer. No. 1,350,545; Aug. 24; v. 277; p. 642.

Cook, Willard J., Des Moines, Iowa. Manure-spreader. No. 1,350,296; Aug. 24; v. 277; p. 592.

Cooke, Neil A. (See Miller, William L., and E. A. F., Jr., assignors.)

Cooley, James F., Richmond, Calif. Self-assisting apparatus for invalids. No. 1,350,297; Aug. 24; v. 277; p. 592.

Cooper, Hugh S., Cleveland, Ohio, assignor, by mesne assignments, to Zircon Tool & Alloy Corporation. Alloy. No. 1,350,359; Aug. 24; v. 277; p. 605.

Corduan, Adolph, Roselle Park, N. J. Needle-threader for sewing-machines. No. 1,350,592; Aug. 24; v. 277; p. 652.

Cornu, Ami, La Chaux-de-Fonds, Switzerland. Clasp. No. 1,350,785; Aug. 24; v. 277; p. 688.

Cosey, Henry M., Flint, Mich. Switch-operating mechanism. No. 1,350,786; Aug. 24; v. 277; p. 689.

Cosgray, Mark C., assignor to The Matthews Engineering Company, Sandusky, Ohio. Electric system. No. 1,350,437; Aug. 24; v. 277; p. 620.

Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing-machine. No. 1,350,298; Aug. 24; v. 277; p. 593.

Costa, Anthony, East Cleveland, assignor to The Gravity Carbureter Company, Cleveland, Ohio. Oiling system. No. 1,350,643; Aug. 24; v. 277; p. 661.

Cotton, James H. (See Martin, C. C., and Cotton.)

Coulson, William T., Anerley, London, England. Construction of lenses for lamps, projectors, and the like. No. 1,350,957; Aug. 24; v. 277; p. 721.

Cox, Allen E., assignor of one-fourth to J. C. Allen and one-fourth to R. C. Evans, Portland, Oreg. Lock. No. 1,350,989; Aug. 24; v. 277; p. 726.

Craighead, James R., and H. R. Summerhayes, Schenectady, N. Y., assignors to General Electric Company. Electrical system of power transmission. No. 1,350,920; Aug. 24; v. 277; p. 713.

Craighead, James R., Schenectady, N. Y., assignor to General Electric Company. Power-limiting system. No. 1,350,921; Aug. 24; v. 277; p. 713.

Crane, Robert W., Los Angeles, Calif. Hinge. No. 1,350,360; Aug. 24; v. 277; p. 605.

Cranford, Frederick L. (See Meem, James C., assignor.)

Cronau, Otto, New York, N. Y. Relieving attachment for lathes. No. 1,350,361; Aug. 24; v. 277; p. 605.

Cronin, Charles I., *et al.*, executors. (See Hirst, Charles S.)

Crosby, Kenneth W., trustee. (See Baker, Malcolm H., assignor.)

Crouch, Thomas E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Rim night-latch. No. 1,350,299; Aug. 24; v. 277; p. 593.

Crouse-Hinds Company. (See Bissell, Carl H., assignor.)

Crumpton, William J., Evanston, Ill. Interrupter spark-suppression method and device. No. 1,350,300; Aug. 24; v. 277; p. 593.

Culver, Charles B., Cherry Valley, Ill. Tread-mill play-cart. No. 1,350,546; Aug. 24. v. 277; p. 642.

Cunningham, Michael F., *et al.* (See McGrath, Lawrence A., assignor.)

D'Albe, Edmund E. F. (See Barr, A., Stroud, and D'Albe.)

Dalén, Gustaf, Lidingön, assignor to Svenska Aktiebolaget Gassaccumulator, Stockholm, Sweden. Search-light apparatus. No. 1,350,547; Aug. 24; v. 277; p. 642.

Danville Brick Company, The. (See Wood, Frank W., assignor.)

Darby, John, assignor of one-half to E. F. Flindell, Summit, N. J. Film gate and tension means for motion-picture machines. No. 1,350,548; Aug. 24; v. 277; p. 642.

Darkes, David J., Fredericksburg, Pa. Snap-hook. No. 1,350,787; Aug. 24; v. 277; p. 689.

Davidson, Joseph. East Point, Ga. Fluid-pressure valve. No. 1,350,438; Aug. 24; v. 277; p. 621.

Davidson, Joseph, Greenville, S. C., assignor of one-half to American Machine & Manufacturing Company. Lint-collecting system. No. 1,350,439; Aug. 24; v. 277; p. 621.

Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,350,706; Aug. 24; v. 277; p. 673.

Davis, Claude B., assignor of one-half to M. Allen, and one-fourth to W. T. Bragg, Richmond, Va. Toll-collecting mechanism. No. 1,350,958. Aug. 24; v. 277; p. 721.

Davis, Edward W., Duluth, Minn. Apparatus for agglomerating ores. No. 1,350,440; Aug. 24; v. 277; p. 622.

Davis, Elmer A., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Expansion-joint for electric-current-collector bars. No. 1,350,856; Aug. 24; v. 277; p. 701.

Davis, George P., Fresno, Calif. Typesetting-machine. No. 1,350,707; Aug. 24; v. 277; p. 673.

Davis, Hanley M., Cambridge, Mass. Fire-escape. No. 1,350,708; Aug. 24; v. 277; p. 674.

Davis, Madison T., Jr., assignor to Kanawha Manufacturing Company, Charleston, W. Va. Furnace-grate. No. 1,350,990; Aug. 24; v. 277; p. 727.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminister, London, England. Recoil apparatus of ordnance. No. 1,350,593; Aug. 24; v. 277; p. 652.

Day, George H., Cuba, Ill. Apparatus for continuously separating juices from materials. No. 1,350,788; Aug. 24. v. 277; p. 689.

Dean, William W., Rochester, N. Y., assignor to Stromberg-Carlson Telephone Manufacturing Company. Telephone-receiver. No. 1,350,594; Aug. 24; v. 277; p. 652.

De Cano, Victor M., Chicago, assignor of one-half to W. H. Hinz, Oak Park, and one-half to R. F. Starr, Chicago, Ill. Folding ironing-board. No. 1,350,857; Aug. 24; v. 277; p. 701.

Decker, George W., assignor of one-third to E. A. Kern and one-third to G. A. Friedricks, Erie, Pa. Stop and waste cock. No. 1,350,362; Aug. 24; v. 277; p. 605.

De Khotinsky Achilles, assignor to Central Scientific Company, Chicago, Ill. Circuit-controlling mechanism. No. 1,350,369; Aug. 24; v. 277; p. 606.

Delany, Patrick B., South Orange, N. J., and L. W. Shumaker, New York, N. Y., assignors to Telepost Company, New York, N. Y. Apparatus for treating telegraph-tape. No. 1,350,789; Aug. 24; v. 277; p. 689.

Delany, Patrick B., South Orange, N. J., and L. W. Shumaker, New York, N. Y., assignors to Telepost Company, New York, N. Y. Telegraphy. No. 1,350,790; Aug. 24; v. 277; p. 689.

Demerath, Joseph M., Rochester, N. Y. Nut-blanching machine. No. 1,350,549; Aug. 24; v. 277; p. 642.

Denneby, William H., *et al.* (See McGrath, Lawrence A., assignor.)

Deppeler, John H., Weehawken, assignor to Metal & Thermit Corporation, Chrome, N. J. Method of and article for alloying tungsten. No. 1,350,709; Aug. 24; v. 277; p. 674.

Dequede, William, New Orleans, La. Mop-wringer. No. 1,350,791; Aug. 24; v. 277; p. 690.

Detroit Stove Works. (See Barbour, W. T., and Mersfelder, assignors.)

De Witt, George W. (See Nelson, Frank C., assignor.)

De Witt, William P. (See La France, D. J., and De Witt.)

De Witt-La France Co. (See La France, D. J., and De Witt, assignors.)

Diamond State Fibre Company. (See Taylor, John M., assignor.)

Dick, Ralph H., C. F. Wolters, Marietta, Ohio, and R. B. Sutter, Newark, N. J., assignors to The Safe-Cabinet Company, Marietta, Ohio. Heat-resisting safe or cabinet. No. 1,350,363; Aug. 24; v. 277; p. 605.

Dicus, Charles M., Mill Spring, N. C. Road-scraper. No. 1,350,991; Aug. 24; v. 277; p. 727.
Diehl, Albert C., Pensauken, N. J., assignor to Victor Talking Machine Company. Sound-box for sound-reproducing and sound-recording machines. No. 1,350,595; Aug. 24; v. 277; p. 652.
Diehl, Albert C., Pensauken, N. J., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 1,350,596; Aug. 24; v. 277; p. 652.
Dietze, Carl H., Jr., Newark, N. J. Candle-holder. No. 1,350,710; Aug. 24; v. 277; p. 674.
Dixon, John, Gary, Ind. Window-ventilator. No. 1,350,792; Aug. 24; v. 277; p. 690.
Doble, Frank C., Winchester, Mass. High-tension telephone system. No. 1,350,922; Aug. 24; v. 277; p. 714.
Dominguez, Zacarias, Los Angeles, Calif. Garden sidehill-plow. No. 1,350,923; Aug. 24; v. 277; p. 714.
Dondo, Mathurin M., New York, N. Y. Marionette. No. 1,350,711; Aug. 24; v. 277; p. 674.
Dorneth, Julius, assignor to Typograph G. m. b. H., Berlin, Germany. Matrix setting and distributing machine. No. 1,350,793; Aug. 24; v. 277; p. 690.
Dosenbach, Benjamin H., deceased, Butte, Mont.; E. M. Dosenbach, executrix, assignor to E. M. Dosenbach. Ore concentration. No. 1,350,364; Aug. 24; v. 277; p. 606.
Dosenbach, Edna M., executrix. (See Dosenbach, Benjamin H.)
Dove, Walter T., U. S. Army. Artillery-truck. No. 1,350,644; Aug. 24; v. 277; p. 661.
Dow Chemical Company, The. (See Dow, H. H., and Strosaker, assignor.)
Dow, Herbert H., and C. J. Strosacker, assignors to The Dow Chemical Company, Midland, Mich. Making carbon disulfid. No. 1,350,858; Aug. 24; v. 277; p. 702.
Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Means for leveling and staying excavating-machines. No. 1,350,992; Aug. 24; v. 277; p. 727.
Doyle, Edward J. (See McCarthy, John H., assignor.)
Draper Corporation. (See Brown, Carl D., assignor.)
Draper Corporation. (See Lacey, Fred, assignor.)
Draper Corporation. (See Wild, Arnold, assignor.)
Drescher, Theodore B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Manufacture of lenses. No. 1,350,441; Aug. 24; v. 277; p. 622.
Drouillard, Elzear J., Detroit, Mich. Cone-rolling machine. No. 1,350,859; Aug. 24; v. 277; p. 702.
Dryden Rubber Company. (See Reeves, George C., assignor.)
Duncan, John Boone, Iowa. Car end construction. No. 1,350,442; Aug. 24; v. 277; p. 622.
Dupont, Jean G, Chicago, Ill Bonnet No 1,350,712; Aug. 24; v. 277; p. 674.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Presser mechanisms for sewing-machines. No. 1,350,301; Aug. 24; v. 277; p. 593.
Dyer, Robert J., Oakland, assignor of one-third to H. B. Williams, San Francisco, Calif. Interlocking wall-block. No. 1,350,490; Aug. 24; v. 277; p. 631.
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Control-switch. No. 1,350,924; Aug. 24; v. 277; p. 714.
Eby, Philip, and L. Angle, assignors to Art in Buttons, Inc., Rochester, N. Y. Machine for separating button-blanks. No. 1,350,794; Aug. 24; v. 277; p. 690.
Economy Fuse & Manufacturing Company. (See Eustice, Alfred L., assignor.)
Edstrom, Albert, Duluth, Minn. Bag-holder. No. 1,350,443; Aug. 24; v. 277; p. 622.
Eickhoff, Theodore H., Cleveland, Ohio, assignor, by mesne assignments, to Auto-Ordnance Corporation, New York, N. Y. Apparatus for lubricating ammunition. No. 1,350,645; Aug. 24; v. 277; p. 661.
Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Magazine. No. 1,350,646; Aug. 24; v. 277; p. 661.
Eldridge, George L., New Brunswick, N. J. Sign. No. 1,350,302; Aug. 24; v. 277; p. 594.
Elias, Abraham J. (See Stupar, Max, assignor.)
Elmore, Frank E., Boxmoor, England. Extraction of lead from its ores. No. 1,350,959; Aug. 24; v. 277; p. 721.
Elmore, Guy H., Swarthmore, and Harry L. McLean, Scranton, Pa. Discharge control for jigs and like machines. No. 1,350,647; Aug. 24; v. 277; p. 661.
Elvyn, Jacob W., Chicago, Ill. Indicator. No. 1,350,303; Aug. 24; v. 277; p. 594.
Epperson, Landy D., Mount Washington, Mo. Rotary motor. No. 1,350,795; Aug. 24; v. 277; p. 690.
Erik, *née* Radstaake, Emilie, New York, N. Y. Mattress. No. 1,350,333; Aug. 24; v. 277; p. 600.
Ersted, Alfred J., Portland, Oreg. Bale-tie. No. 1,350,860; Aug. 24; v. 277; p. 702.
Ettler, John A., assignor of one-half to J. V. Oppel, San Francisco, Calif. Nut-lock. No. 1,350,404; Aug. 24; v. 277; p. 613.
Eustice, Alfred L., assignor to Economy Fuse & Manufacturing Company, Chicago, Ill. Means for establishing electrical connections. No. 1,350,444; Aug 24; v. 277; p. 622.
Evans, Guy J., Buffalo, N. Y. Address-stencil. No. 1,350,992; Aug. 24; v. 277; p. 727.
Evans, Ross C., *et al.* (See Cox, A., and Evans.)
Evans, William M., Tampa, Fla. Safety-razor and blade-holder. No. 1,350,960; Aug. 24; v. 277; p. 721.
Evslin, Leo E., New York, N. Y. Capsule for antiseptics and the like. No. 1,350,304; Aug. 24; v. 277; p. 594.
Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Insulation. No. 1,350,925; Aug. 24; v. 277; p. 714.
Falconer, James, *et al.* (See Roots, Richard W., assignor.)
Familet, Joseph. (See Lombardo, Carl, assignor.)
Farb, Pincus, Saginaw, Mich., assignor to Sonora Phonograph Corporation. Automatic stop. No. 1,350,796; Aug. 24; v. 277; p. 691.
Farquhar, Moubray G., and A. H. Hill, Birmingham, England. Automatic firearm. No. 1,350,961; Aug. 24; v. 277; p. 721.
Fausse, Joseph, Brocton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming-machine. No. 1,350,305; Aug. 24; v. 277; p. 594.
Federal Telegraph Company. (See Beal, Ralph R., assignor.)
Fellers, William M., Warrington, Fla. Automobile-headlight. No. 1,350,491; Aug. 24; v. 277; p. 632.
Ferdon, Guy W., Cresskill, N. J. Elastic-spring-clamping-catch holder. No. 1,350,713; Aug. 24; v. 277; p. 675.
Firestone Tire and Rubber Company, The. (See Beck, O. F., Speers, and Jones, assignors.)
Firestone Tire and Rubber Company, The. (See Goodenberger, Daniel E., assignor.)
Firestone Tire and Rubber Company, The. (See MacDonald, Frank J., assignor.)
Fish, Edwards R., Phoenixville, Pa. Superheated steam-boiler. No. 1,350,597; Aug. 24; v. 277; p. 653.
Fisk, Annie L., *et al.* (See Holmes, Anderson M., assignor.)
Fitch, Benjamin F., Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del. Trolley. No. 1,350,648; Aug. 24; v. 277; p. 662.
Fitz-Empire Double Pivot Last Company. (See Schelter, John C., assignor.)
Fletcher, William D. (See Sheppard, J. F., 2d, and Fletcher.)
Flindell, Edwin F. (See Darby, John, assignor.)
Flory, Jesse D., Camden, Ohio. Hitch for two-wheel tractors. No. 1,350,962; Aug. 24; v. 277; p. 721.
Flynn, John J., Providence, R. I. Threading-tool. No. 1,350,861; Aug. 24; v. 277; p. 702.
Flynn, John J., Providence, R. I. Chaser. No. 1,350,862; Aug. 24; v. 277; p. 702.
Fogh, Walter B., Seattle, Wash. Device for removing semisolid oleaginous materials from containers. No. 1,350,598; Aug. 24; v. 277; p. 653.
Fogh, Walter B., Seattle, Wash. Process of removing solid oils from cans. No. 1,350,599; Aug. 24; v. 277; p. 653.
Foley, Charles B., Brooklyn, N. Y. Treating metals and alloys. No. 1,350,714; Aug. 24; v. 277; p. 675.
Foote, Charles M., Nashua, N. H. Guard. No. 1,350,797; Aug. 24; v. 277; p. 691.
Forshee, Isaac C., Germantown, Pa., and C. Gilman, Plainfield, N. J. Manhole construction. No. 1,350,306; Aug. 24; v. 277; p. 594.
Foster, Merriam & Company. (See Hinckley, Percy P., assignor.)
Foster, Uri D., and J. Litke, assignors to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Feeder for metal-working machines. No. 1,350,715; Aug. 24; v. 277; p. 675.
Fourneaux, Emile A., Manchester, England. Production of aniline black upon vegetable textile fibers. No. 1,350,600; Aug. 24; v. 277; p. 653.
Fowler, Henry C., Johnson City, N. Y. Folding display-truck. No. 1,350,963; Aug. 24; v. 277; p. 722.
Fowler, John C., Syracuse, N. Y. Suspensory. No. 1,350,863; Aug. 24; v. 277; p. 702.
Franc, Joseph M. E., Andancette, France. Air-pump for inflating pneumatic tires. No. 1,350,926; Aug. 24; v. 277; p. 714.
Frazier, George E., assignor of one-half to S. C. Cobb, Clever, Mo. Automatic tatting apparatus. No. 1,350,445; Aug. 24; v. 277; p. 622.
Freeman, Arthur E., Toronto, Ontario, Canada. Release-hook. No. 1,350,716; Aug. 24; v. 277; p. 675.
Friedricks, George A., *et al.* (See Decker, George W., assignor.)
Friel, Patrick A., Bayonne, N. J. Hanger-block. No. 1,350,964; Aug. 24; v. 277; p. 722.
Fuelling, Louis H., New York, N. Y., assignor to The United States Printing and Lithograph Co., Brooklyn, N. Y. Making embossed designs. No. 1,350,365; Aug. 24; v. 277; p. 606.
Fulbright, Thomas, St. Louis, Mo. Wire-mill. No. 1,350,307; Aug. 24; v. 277; p. 594.
Fuller, Rodolphus, Detroit, Mich. Rust construction. No. 1,350,601; Aug. 24; v. 277; p. 653.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method and apparatus for conditioning prepared fabric. No. 1,350,366; Aug. 24; v. 277; p. 606.
Furman, Samuel, Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for making window-envelop blanks. (Reissue.) No. 14,936; Aug. 24; v. 277; p. 732.
Fusch, Warnie A., Decatur, Ill. Power-operated razor. No. 1,350,717; Aug. 24; v. 277; p. 675.

Fynn, Valére A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,350,446; Aug. 24; v. 277; p. 623.
Fynn, Valére A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,350,447; Aug. 24; v. 277; p. 623.
Gaeto, Marco, New York, N. Y. Slipper. No. 1,350,965; Aug. 24; v. 277; p. 722.
Gaines, Thomas R., Norwood, Ohio. Fastening device. No. 1,350,718; Aug. 24; v. 277; p. 676.
Gale, Oscar A., Eaton, Ohio. Device for conserving cord and twine. No. 1,350,602; Aug. 24; v. 277; p. 653.
Galligan, Edward H., Providence, R. I. Eye syringe and massage device. No. 1,350,719; Aug. 24; v. 277; p. 676.
Garden, David A., St. Louis, Mo. Adjustable reflector for headlights. No. 1,350,308; Aug. 24; v. 277; p. 595.
Garfield, James R., trustee. (See Wright, Joseph L., assignor.)
Gaynor, John J., assignor to Arrow Bottlers Machinery Company, trustee, Chicago, Ill. Capping mechanism. No. 1,350,405; Aug. 24; v. 277; p. 614.
Geier, P. A., Company, The. (See Geier, Philip A., assignor.)
Geier, Philip A., assignor to The P. A. Geier Company, Cleveland, Ohio. Press-body. No. 1,350,649; Aug. 24; v. 277; p. 662.
General Electric Company. (See Abbott, Charles C., assignor.)
General Electric Company. (See Alexanderson, E. F. W., assignor.)
General Electric Company. (See Craighead, J. R., and Summerhayes, assignors.)
General Electric Company. (See Craighead, James R., assignor.)
General Electric Company. (See Eaton, John, assignor.)
General Electric Company. (See Faccioli, Guiseppe, assignor.)
General Electric Company. (See Gomborow, Joel, assignor.)
General Electric Company. (See Moore, Roy W., assignor.)
General Electric Company. (See Peek, Frank W., Jr., assignor.)
General Electric Company. (See Perry, Charles L., assignor.)
General Electric Company. (See Rice, Richard H., assignor.)
General Electric Company. (See Thomson, Stuart, assignor.)
General Electric Company. (See Unger, Magnus, assignor.)
Georgilas, George. (See Loetscher, Alvin A., assignor.)
Gerritson, Jacob, and W. L. Rieck, Kankakee, Ill. Bulk head structure. No. 1,350,603; Aug. 24; v. 277; p. 653.
Ghittino, Alexander, New York, N. Y. Combined folding bed and bureau. No. 1,350,720; Aug. 24; v. 277; p. 676.
Gibbons, Willis A., Flushing, N. Y., assignor to American Rubber Company. Vulcanizing rubber and similar materials. No. 1,350,798; Aug. 24; v. 277; p. 691.
Giddings, Hiram W., Mansford, Wash. Clothes-drier No. 1,350,367; Aug. 24; v. 277; p. 606.
Gilbertson, Roy A. (See South, Thomas W., assignor.)
Gilman, Charles. (See Forshee, I. C., and Gilman.)
Gits, Jules P., Chicago, Ill. Oil-cup. No. 1,350,721; Aug. 24; v. 277; p. 676.
Gleeson, William E., East McKeesport, Pa. Toy vehicle. No. 1,350,492; Aug. 24; v. 277; p. 632.
Glover, William E., Coin, Iowa. Antiskidding device. No. 1,350,966; Aug. 24; v. 277; p. 722.
Göhring, Oswald H. (See Klever, H., Lautenschläger and Göhring.)
Gold, Samuel B., Independence, Mo., assignor to S. W. Livingston, Washington, D. C. Internal-combustion engine. No. 1,350,864; Aug. 24; v. 277; p. 702.
Gomborrow, Joel, Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. No. 1,350,927; Aug. 24; v. 277; p. 715.
Goodenberger, Daniel E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Adjustable die for rubber-extruding machines. No. 1,350,722; Aug. 24; v. 277; p. 676.
Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
Goodrich, Chauncey M., U. S. Army. Knockdown building. No. 1,350,493; Aug. 24; v. 277; p. 632.
Gorman, John F., Seattle, Wash. Stump-puller. No. 1,350,994; Aug. 24; v. 277; p. 727.
Gossling, Walter E. (See Noble, I. M., and Gossling.)
Govette, Leo J. (See Stenger, Francis J., assignor.)
Graban, Hans E., Long Island City, assignor to A. C. Schwartz, New York, N. Y. Vehicle-tire. No. 1,350,995; Aug. 24; v. 277; p. 728.
Graham, Clarence R., Newark, Calif. Combined gas and coal range. No. 1,350,723; Aug. 24; v. 277; p. 676.
Graham, Henry W. B., assignor to The Arnold-Creager Company, New London, Ohio. Bumping mechanism. No. 1,350,604. Aug. 24; v. 277; p. 654.
Graham, Joseph B., Evansville, Ind., and R. La France assignors to The Owens Bottle Machine Company, Toledo, Ohio. Apparatus for conveying molten glass. No. 1,350,448; Aug. 24; v. 277; p. 623.
Grassi, Peter. (See Williams, Richard J., assignor.)
Gravity Carburetor Company, The. (See Costa, Anthony, assignor.)
Gray, Daniel A., Des Moines, Iowa. Farm-gate. No. 1,350,967; Aug. 24; v. 277; p. 722.
Green, Rina, Copenhagen, Denmark. Veil. No. 1,350,494; Aug. 24; v. 277; p. 632.
Green, Thomas W., Trenton, N. J. Multistage centrifugal blower. No. 1,350,724; Aug. 24; v. 277; p. 677.
Greenawalt, William E., Denver, Colo. Flotation apparatus. No. 1,350,605; Aug. 24; v. 277; p. 654.
Greenleaf, George E., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Lubricating system for planers. No. 1,350,309; Aug. 24; v. 277; p. 595.
Greuter, Charles R., Cincinnati, Ohio. Carbureter. No. 1,350,799; Aug. 24; v. 277; p. 691.
Greuter, Charles R., Detroit, Mich. Engine-valve mechanism. No. 1,350,800; Aug. 24; v. 277; p. 691.
Guerin, William F., Brooklyn, N. Y. Snow-removal and steam-heating system. No. 1,350,968; Aug. 24; v. 277; p. 723.
Griffiths, Daniel E., Pittsburgh, Pa. Metallurgical furnace. No. 1,350,865; Aug. 24; v. 277; p. 703.
Groehli, Joseph A., New York, N. Y. Bead-sewing machine. No. 1,350,449; Aug. 24; v. 277; p. 623.
Grover, Albert D., New York, N. Y. Tailpiece for banjos and the like. No. 1,350,310; Aug. 24; v. 277; p. 595.
Gruenfeldt, Emil, assignor, by mesne assignments, to The Baker R & L Company, Cleveland, Ohio. Operating mechanism for vehicles. No. 1,350,450; Aug. 24; v. 277; p. 623.
Gruetzmacher, Mary E., Milwaukee, Wis. Safety device for valuables. No. 1,350,606. Aug. 24; v. 277; p. 654.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,350,725; Aug. 24; v. 277; p. 677.
Guth, Jacob, Salem, Ill. Tractor. No. 1,350,451; Aug. 24; v. 277; p. 624.
Guthrie, James, Cleveland, Ohio, assignor to The Ohio Motor Vehicle Company. Bumper-supporting means. No. 1,350,406; Aug. 24; v. 277; p. 614.
Haapanen, Henry W., Telluride, Colo. Brake attachment for automobiles. No. 1,350,726; Aug. 24; v. 277; p. 677.
Hagenbuch, Walter, Martinez, Calif. Fireplace. No. 1,350,495; Aug. 24; v. 277; p. 632.
Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Throttle-valve for percussive tools. No. 1,350,407; Aug. 24; v. 277; p. 614.
Hale, Frank R., Hartford, Conn. Shipping-crate. No. 1,350,496. Aug. 24; v. 277; p. 632.
Hall, George S., Chico, Calif. Apparatus for radiator-repairing. No. 1,350,866; Aug. 24; v. 277; p. 703.
Hallen, Swan E., Vancouver, British Columbia, Canada. Vehicle-signal. No. 1,350,969; Aug. 24; v. 277; p. 723.
Halliday, Louis B., Cincinnati, Ohio. Automobile-lock. No. 1,350,497; Aug. 24; v. 277; p. 633.
Hallner, Andrew, Arboga, Calif. Load-indicator. No. 1,350,498; Aug. 24; v. 277; p. 633.
Hammond, John H., Jr., Gloucester, Mass. Radiotelegraphy. No. 1,350,801; Aug. 24; v. 277; p. 691.
Hammer, Edward M., Diboll, Tex. Hose-reel. No. 1,350,499; Aug. 24; v. 277; p. 633.
Hand, Judson L., Sanger, Calif. Internal-combustion engine. No. 1,350,607; Aug. 24; v. 277; p. 654.
Handler, William, Newark, N. J. Handle. No. 1,350,650; Aug. 24; v. 277; p. 662.
Hardy, Edward J., Coventry, England. Universal joint of the flexible-disk type. No. 1,350,500; Aug. 24; v. 277; p. 633.
Harmon, Alton D., assignor of one-third to J. S. Owen and one-third to A. W. S. Strong, Erie, Pa. Computing-machine. No. 1,350,727; Aug. 24; v. 277; p. 677.
Harriman National Bank of the City of New York, trustee. (See Catucci, P., and Nodel, assignors.)
Harriman National Bank of the City of New York, trustee. (See Catucci, P., and Vasselli, assignors.)
Harriman National Bank of the City of New York, trustee. (See Vasselli, Anthony.)
Harrington, John L., Winston-Salem, N. C., assignor to Southern Implement Manufacturing Co., Columbus, Ga. Threshing-machine. No. 1,350,452; Aug. 24; v. 277; p. 624.
Harris, Charles H. (See Wilcox, Charles M., assignor.)
Harriss, James B., Newark, N. J., assignor to P. Lorillard Company, New York, N. Y. Wrapper-applying mechanism. No. 1,350,608; Aug. 24; v. 277; p. 654.
Hart & Hegeman Manufacturing Company, The. (See Foster, U. D., and Kitke, assignors.)
Hart & Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)
Hartmann, Max, and E. Wybert, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Thienylquinolin carboxylic acids. No. 1,350,408; Aug. 24; v. 277; p. 614.
Hartenberger, Robert, Sheboygan Falls, Wis. Ventilated silo. No. 1,350,501; Aug. 24; v. 277; p. 633.
Hartung, Felix C. (See Pihlfeldt, T. G., and Hartung.)
Harvey, Henry C., Huntington, W. Va. Self-serving store. No. 1,350,996; Aug. 24; v. 277; p. 728.
Hase, Takebe, San Francisco, Calif. Collar construction. No. 1,350,609; Aug. 24; v. 277; p. 655.

Hayes, Henry F., Jr. (See Smith, Winfield D., assignor.)
Heath, Clinton L., Leslie, Mo. Tappet-wheel for planters. No. 1,350,997; Aug. 24; v. 277; p. 728.
Hebern, William. (See Rial, L., and Hebern.)
Heideman, Fred J., assignor to Household Utilities Corporation, Detroit, Mich. Refrigerating-tank. No. 1,350,453; Aug. 24; v. 277; p. 624.
Henig Engine Co. (See Henig, Frank L., assignor.)
Henig, Frank L., Chicago, Ill., assignor, by mesne assignments, to Henig Engine Co. Inlet or check valve. No. 1,350,610; Aug. 24; v. 277; p. 655.
Henske, Edward A. (See Trammell, Charles M., assignor.)
Herrington, John A. D., Tupelo, Miss., assignor of one-fourth to E. B. Hulsey, Earle, Ark., one-fourth to W. A. Blair, and one-fourth to G. H. Hill, Tupelo, Miss. Testing apparatus. No. 1,350,368; Aug. 24; v. 277; p. 606.
Hetherington, Carl F., Indianapolis, Ind. Combined asphalt-kettle and steam-generating plant. No. 1,350,502; Aug. 24; v. 277; p. 634.
Hewitt, Peter C., Ringwood Manor, N. J. Flying-machine. No. 1,350,454; Aug. 24; v. 277; p. 624.
Hewitt, Peter C., Ringwood Manor, N. J. Helicopter. No. 1,350,455; Aug. 24; v. 277; p. 625.
Hewitt, Peter C., Ringwood Manor, N. J. Helicopter. No. 1,350,456; Aug. 24; v. 277; p. 625.
Hill, Arthur H. (See Farquhar, M. G., and Hill.)
Hill, Chauncy H., assignor of one-half to Minneapolis Threshing Machine Co., Hopkins, Minn. Band-cutter and feeder. No. 1,350,802; Aug. 24; v. 277; p. 692.
Hill, George H., *et al.* (See Herrington, John A. D., assignor.)
Hinckley, Percy P., assignor to Foster, Merriam & Company, Meriden, Conn. Combined valve-lifter and handvise. No. 1,350,803; Aug. 24; v. 277; p. 692.
Hinckley, Percy P., Meriden, Conn., assignor to Foster, Merriam & Company. Valve grinder. No. 1,350,804; Aug. 24; v. 277; p. 692.
Hinz, William H., *et al.* (See De Cano, Victor M., assignor.)
Hirst, Charles S., deceased, Philadelphia, Pa., C. I. Cronin and Logan Trust Company, executors. Culinary utensil. No. 1,350,651; Aug. 24; v. 277; p. 662.
Hoagland, Frank O., Bridgeport, Conn. Plug or thread gage. No. 1,350,311; Aug. 24; v. 277; p. 595.
Hofmeister, Leo., Milwaukee, Wis. Vehicle-wheel. No. 1,350,457; Aug. 24; v. 277; p. 625.
Hoffman, John F., Rochester, N. Y. Refrigerating apparatus. No. 1,350,550; Aug. 24; v. 277; p. 643.
Hokanson, Martin, Duluth, Minn. Shovel-testing machine. No. 1,350,458; Aug. 24; v. 277; p. 625.
Holcomb & Hoke Manufacturing Company. (See Booth, Earl C., assignor.)
Holmes, Anderson M., Baltimore, Md., assignor of fifteen one-hundredths to M. Smith, fifteen one-hundredths to A. L. Fisk, nineteen one-hundredths to O. I. Woodley, eighteen one-hundredths to W. F. Metcalf, and thirty-three one-hundredths to E. L. Torach. Atomizer. No. 1,351,012; Aug. 24; v. 277; p. 731.
Homeniuk, Werona, Woodlicht, Saskatchewan, Canada. Envelop. No. 1,350,928; Aug. 24; v. 277; p. 715.
Hopkins, Ralph Z., Detroit, Mich. Building construction. No. 1,350,805; Aug. 24; v. 277; p. 692.
Horton, W. R. (See Scott, George W., assignor.)
Household Utilities Corporation. (See Heideman, Fred J., assignor.)
Hubbard, Walter L., Ferris, Ill. Mechanism for adjusting propeller-pitch. No. 1,350,312; Aug. 24; v. 277; p. 596.
Huculak, Hryhoryj, Clearing, Ill. Baby-carriage. No. 1,350,806; Aug. 24; v. 277; p. 692.
Huebner, Otto E., Brooklyn, N. Y. Means for establishing auxiliary convection in liquid-containers. No. 1,350,728; Aug. 24; v. 277; p. 678.
Hughes, Charles J., Summerville, S. C. Automobile-signal. No. 1,350,998; Aug. 24; v. 277; p. 728.
Hughes, William E., Greenville, S. C., assignor to R. O. Brooks, Atlanta, Ga. Brush. No. 1,350,652; Aug. 24; v. 277; p. 662.
Hussey, Elie B., *et al.* (See Herrington, John A. A., assignor.)
Humes, Guy B., Chicago, Ill. Appliance for horn musical instruments. No. 1,350,409; Aug. 24; v. 277; p. 615.
Hyland, Oltron R., Astoria, Oreg. Packing-auger. No. 1,350,999; Aug. 24; v. 277; p. 728.
Hutchison, Arthur E., and H. Krah, New York, N. Y. Base for jacks. No. 1,350,970; Aug. 24; v. 277; p. 725.
Immorial Electric Company. (See Schurch, Jacob, assignor.)
Indiana Air Pump Company. (Reissue.) (See Pruitt, Oran M., assignor.)
Ingersoll-Rand Company. (See Haight, Harry V., assignor.)
Ingersoll-Rand Company. (See Smith, William A., assignor.)
Insko, Walter D., Anselmo, Nebr. Brooder. No. 1,350,971; Aug. 24; v. 277; p. 723.
Irvin, King, and A. Lennox, Washington, D. C. Method of and apparatus for pouring molten metal. No. 1,350,972; Aug. 24; v. 277; p. 723.
Irvine, Benjamin, Everett, Wash. Leaf-supporting mechanism. No. 1,350,503; Aug. 24; v. 277; p. 634.
Jackson, Edith A., Prahran, near Melbourne, Victoria, Australia. Device for cleansing the interior of bottles and other receptacles. No. 1,350,807; Aug. 24; v. 277; p. 693.
Jeffries, Oscar S., Sr., assignor of one-half to G. W. Kirk, Philadelphia, Pa. Shock-absorber. No. 1,350,313; Aug. 24; v. 277; p. 596.
Jeffries, Winfield S., Great Falls, Mont. Seed-separating device. No. 1,350,973; Aug. 24; v. 277; p. 724.
Jensen, Frederik, Rochester, N. Y. Fuel-tank for internal-combustion engines. No. 1,350,808; Aug. 24; v. 277; p. 693.
Jerome, William E., Rockville Center, N. Y. Lighting-fixture. No. 1,350,809; Aug. 24; v. 277; p. 693.
Jewell, William M., assignor to Chlorine Products Company, Chicago, Ill. Lubrication. No. 1,350,551; Aug. 24; v. 277; p. 643.
Johanson, Magnus H., assignor to Todd Protectograph Co., Rochester, N. Y. Check-writer. No. 1,350,459; Aug. 24; v. 277; p. 625.
John, Ernest. (See Brown, H. C., and John.)
Johnson, Arthur A. (See Stickney, B. C., and Johnson.)
Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift-lever lock. No. 1,350,810; Aug. 24; v. 277; p. 693.
Johnson, Dolph, Burke, Idaho, assignor of one-half to J. Carlson, Mullan, Idaho. Shears. No. 1,350,653; Aug. 24; v. 277; p. 662.
Johnson, Halsey M. (See Stein, Clarence L., assignor.)
Jones, Jay D., New York, N. Y. Light-deflector for lamps. No. 1,350,811; Aug. 24; v. 277; p. 693.
Jones, Robert R. (See Beck, O. F., Spears, and Jones.)
Jorgensen, Hans P., Beloit, Wis. Horseshoe-calk wrench. No. 1,350,504; Aug. 24; v. 277; p. 634.
Jury, Alfred E., Newark, N. J., assignor to Morgan & Wright. Thread-twisting machine. No. 1,350,812; Aug. 24; v. 277; p. 694.
Kader, Carl, Hennef, assignor, by mesne assignments, to Obrima Automatische Waagenbau-Actiengesellschaft, Munich, Germany. Automatic weighing-machine. No. 1,350,611; Aug. 24; v. 277; p. 655.
Kadow, August, assignor to The Westlake Machine Company, Toledo, Ohio. Glass-gathering mechanism. No. 1,350,552; Aug. 24; v. 277; p. 643.
Kaisha, Nihon, D. K. K. (See Yanai, Teizo, assignor.)
Kanawha Manufacturing Company. (See Davis, Madison T., Jr., assignor.)
Katzmarek, Michael, Duluth, Minn. Snap-fastener. No. 1,350,314; Aug. 24, v. 277; p. 596.
Katzmarek, Miehael, Duluth, Minn. Wrench. No. 1,350,315; Aug. 24; v. 277; p. 596.
Keesler, Clyde C., assignor to Watson Wagon Company, Canasota, N. Y. Motor-vehicle. No. 1,350,460; Aug. 24; v. 277; p. 625.
Keesling, Ernest L., San Jose, Calif. Convertible wheel. No. 1,350,813; Aug. 24; v. 277; p. 694.
Keller Pneumatic Tool Company. (See Keller, William H., assignor.)
Keller, William H., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Percussion-tool. No. 1,350,505; Aug. 24; v. 277; p. 634.
Kelley, Martin V., trustee. (See Stringham, George R., assignor.)
Kelso, Ralph S. (See Moffatt, J. R., and Kelso.)
Kemmling, August W., Springfield, Mo. Automobile-lock. No. 1,350,316; Aug. 24; v. 277; p. 596.
Kennedy, James G., assignor of one-half to W. H. Brown, Chicago, Ill. Nut-blancher. No. 1,350,506; Aug. 24; v. 277; p. 634.
Kennedy, Walter C. (See Mayer, W. S., and Kennedy.)
Kenneweg, Albert H., Brooklyn, N. Y. Port-light. No. 1,350,507; Aug. 24; v. 277; p. 635.
Kenney, Charles D. (See Smith, George H., assignor.)
Kent, William J., Brooklyn, N. Y., assignor to New York Belting & Packing Company. Method and apparatus for assembling and attaching tiling. No. 1,350,410; Aug. 24; v. 277; p. 615.
Keplinger, George B., Chicago, Ill. Broom-hanger. No. 1,350,654; Aug. 24; v. 277; p. 663.
Kern, Edward A., *et al.* (See Decker, George W., assignor.)
Ketterer, Charles A., East St. Louis, Ill. Refrigerator. No. 1,350,655; Aug. 24; v. 277; p. 663.
Keystone Driller Company. (See Downie, Robert M., assignor.)
Klewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,350,729; Aug. 24; v. 277; p. 678.
Kilbourne and Jacobs Manufacturing Company. (See Martin, C. C., and Cotton, assignors.)
King, Matthew L., Des Moines, Iowa. Building-block. No. 1,350,656; Aug. 24; v. 277; p. 663.
Kingsbury, Edward J., New York, N. Y. Alloy for electric welding. No. 1,350,317; Aug. 24; v. 277; p. 596.
Kirby, Champeau Company. (See Champeau, Lawrence X., assignor.)
Kirk, George W. (See Jeffries, Oscar S., Sr., assignor.)
Kirschmann, Mary A., Philadelphia, Pa. Rigid hand-grip for cars. No. 1,350,657; Aug. 24; v. 277; p. 663.
Klever, Helmut, L. C. Lautenschläger, and O. H. Göhring, Karlsruhe, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing lubricating-oils. No. 1,350,814; Aug. 24; v. 277; p. 694.
Knapp, E. J., Candle and Wax Company. (See Knapp, Edward J., assignor.)
Knapp, Edward J., assignor to E. J. Knapp Candle and Wax Co., Inc., Syracuse, N. Y. Candle-lamp. No. 1,350,461; Aug. 24; v. 277; p. 626.)

Knight American Patents Company. (See Knight, Charles Y., assignor.)
Knight Charles Y., Pasadena, Calif., assignor to the Knight American Patents Company, Chicago, Ill. Ignition mechanism for internal-combustion engines. No. 1,350,815; Aug. 24; v. 277; p. 694.
Kocourek, Henry, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Electric flatiron. No. 1,350,867; Aug. 24; v. 277; p. 703.
Kollin, Carl F., assignor of one-half to G. P. Thornblade, Marshalltown, Iowa. Watering device. No. 1,350,411; Aug. 24; v. 277; p. 615.
Kolshorn, Reynold E., Red Wing, Minn. Means for agitating bath-water. No. 1,350,974; Aug. 24; v. 277; p. 724.
Kornfeld, Charles, New York, N. Y. Manufacturing caps. No. 1,350,868; Aug. 24; v. 277; p. 703.
Kornfeld, Charles, New York, N. Y. Cap. No. 1,350,869; Aug. 24; v. 277; p. 703.
Kors, Charles H., Poughkeepsie, N. Y. Automatically-closing receptacle. No. 1,350,816; Aug. 24; v. 277; p. 694.
Kors, Charles H., Philadelphia, Pa. Utensil-cover holder. No. 1,350,817; Aug. 24; v. 277; p. 695.
Kraft, James L., Chicago, Ill. Sterilizing and packaging cheese. No. 1,350,870. Aug. 24; v. 277; p. 704.
Krah, Harry. (See Hutchison, A. E., and Krah.)
Kraliček, Cyrill, Chicago, Ill. Automatic organ. No. 1,350,818 Aug. 24; v. 277; p. 695.
Kreplin, Charles A., Enid, Okla. Necktie-clasp. No. 1,350,612; Aug. 24; v. 277; p. 655.
Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Filling-thread controller. No. 1,350,613; Aug. 24; v. 277; p. 655.
Lacoin, Louis. (See Beurrier, A., Bigourdan, and Lacoin.)
La France, David J., Cambridge, and W. P. De Witt, Somerville, Mass., assignors, by mesne assignments, to De Witt-La France Co. Clip for fountain-pen caps or the like. No. 1,350,412; Aug. 24; v. 277; p. 615.
La France, Richard. (See Graham, J. B., and La France.)
Lamont, Lewis H., Chicago, Ill. Thermostatic control mechanism for hydrocarbon-engines. No. 1,350,871; Aug. 24; v. 277; p. 704.
Landers, Fray & Clark. (See Carlson, Frederick E., assignor.)
Langdon, Jesse D., Waterville, Wash. Fuel-vaporizing system for internal-combustion engines. No. 1,350,413; Aug. 24; v. 277; p. 615.
Langdon, Jesse D., Waterville, Wash. Hydraulic air-cushion. No. 1,350,414. Aug. 24; v. 277; p. 616.
Laroche, Emile, Montreal, Quebec, Canada. Fountain-brush. No. 1,350,415; Aug. 24; v. 277; p. 616.
Lautenschläger, Ludwig C. (See Klever, H., Lautenschläger, and Göhring.)
Lawrence, E. V., Safety Brake Company. (See Lawrence, Edward V., assignor.)
Lawrence, Edward V., Englewood, N. J., assignor to E. V. Lawrence Safety Brake Company, Inc., New York, N. Y. Automobile-brake. No. 1,350,318; Aug. 24; v. 277; p. 597.
Lawrence, Franklin P., University City, Mo. Open-slot conduit. No. 1,350,658; Aug. 24; v. 277; p. 663.
Leavitt, William C., Norway, Me. Handle for metallic vessels. No. 1,350,659; Aug. 24; v. 277. p. 664.
Lederer, Sigmund L., and G. U. Meyer, assignors to Providence Stock Company, Providence, R. I. Connector for band-bracelets. No. 1,350,508; Aug. 24; v. 277; p. 635.
Lenchard, Walter, McKeesport, Pa. Toy doll. No. 1,350,660; Aug. 24; v. 277; p. 664.
Lennox, Andrew. (See Irvin, K., and Lennox.)
Leonhardy, Mark, Buena Vista, Colo. Acetylene-gas lamp. No. 1,350,819; Aug. 24; v. 277; p. 695.
Leviston, Walla, and J. Perry, Kansas City, Mo. Springwheel. No. 1,350,370; Aug. 24; v. 277; p. 607.
Levy, Isidor, New York, N. Y. Tambourine. No. 1,350,975; Aug. 24; v. 277; p. 724.
Ley, George A., Chicago, Ill. Flash-light bag. No. 1,350,730; Aug. 24. v. 277; p. 678.
Lichtenstein, Solomon K., New York, N. Y. Cotton-gin. No. 1,350,661; Aug. 24; v. 277; p. 664.
Lightell, William. (See Stobs, T., and Lightell.)
Lilienfeld, Leon, Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Alkyl ether of starches and similar carbohydrates and producing same. No. 1,350,820; Aug. 24; v. 277; p. 695.
Liljeberg, Anton W., Minneapolis, Minn. Welt-forming device. No. 1,350,731; Aug. 24; v. 277; p. 678.
Linden, Charles J., Iron Mountain, Mich. Metal road-track. No. 1,350,872; Aug. 24; v. 277; p. 704.
Litke, John. (See Foster, U. D., and Litke.)
Livingston, S. W. (See Gold, Samuel B., assignor.)
Locomobile Company, The. (See Rosner, Adolph, assignor.)
Loetscher, Alvin A., assignor of one-half to G. Georgilas, Billings, Mont. Automatic fuel-mixture regulator. No. 1,350,976; Aug. 24; v. 277; p. 724.
Logan Trust Company *et al.*, executors. (See Hirst, Charles S.)
Lombardo, Carl, assignor of one-third to J. Familet, Dunkirk, N. Y. Amusement device. No. 1,350,873; Aug. 24; v. 277; p. 704.
Longworth, Otis L., assignor of one-half to A. L. McCormick, Detroit, Mich. Spark-plug. No. 1,350,319. Aug. 24; v. 277; p. 597.
Lorange, Elnar, Luverne, Minn. Bag and twine holder. No. 1,350,874; Aug. 24; v. 277; p. 704.
Lorillard, P., Company. (See Harris, James B., assignor.)
Lovekin, Luther D., Philadelphia, Pa. Feed-water heater. No. 1,350,320; Aug. 24; v. 277; p. 597.
Lundie, John, New York, N. Y. Rail-anchor. No. 1,350,321; Aug. 24; v. 277; p. 597.
Lyon, Frank A., Milford, N. Y. Draft-equalizer. No. 1,350,821; Aug. 24; v. 277; p. 695.
McBride, Thomas C., Philadelphia, Pa., assignor to Worthington Pump and Machinery Corporation. Feed-water-heating apparatus. No. 1,350,322; Aug. 24; v. 277; p. 597.
McCann, Charles A., Springfield, Ill. Gate. No. 1,350,323; Aug. 24; v. 277; p. 597.
McCarthy, John H., Lyons, assignor to E. J. Doyle, Rochester, N. Y. Combined sleigh and wheel coaster. No. 1,350,929; Aug. 24; v. 277; p. 715.
McCormick, A. L. (See Longworth, Otis L., assignor.)
McCormick, Langdon, New York, N. Y. Theatrical appliance. No. 1,350,614; Aug. 24; v. 277; p. 656.
McCurdy, Arthur W., Victoria, British Columbia, Canada. Sheet-uniting device. No. 1,350,371; Aug. 24; v. 277; p. 607.
McDonald, James D., Hayden, Ariz. Sand and slime separator. No. 1,350,509; Aug. 24; v. 277; p. 635.
McGill, James K., Belledeau, La. Railway-tie. No. 1,350,416; Aug. 24; v. 277; p. 616.
McGrath, Lawrence A., Winthrop, assignor of four-sixteenths to M. F. Cunningham, Randolph, and two-sixteenths to W. H. Dennehy, Brockton, Mass. Tag-stringing machine. No. 1,351,000; Aug. 24; v. 277; p. 729.
McKenzie, Gregg. (See Carroll, Andrew L., assignor.)
McKenzie, Luke C., Clinton, N. C. Cattle-grazing post. No. 1,350,732; Aug. 24; v. 277; p. 678.
McLaren-Sleight Corporation. (See McLaren, William E., assignor.)
McLaren, William E., Chicago, Ill., assignor, by mesne assignments, to McLaren-Sleight Corporation, St. Joseph, Mich. Convertible toy battleship and tank-car. No. 1,350,417; Aug. 24; v. 277; p. 616.
McLaughlin, E. J., *et al.* (See Rial, L., and Hebern, assignors.)
McLean, Harry L. (See Elmore, Guy H.)
McNitt, Archibald, Benton Harbor, Mich. Change-speed gear. No. 1,350,822; Aug. 24; v. 277; p. 696.
MacDonald, Frank J., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Rack. No. 1,350,662; Aug. 24; v. 277; p. 664.
Mack, Patrick H., Bradford, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. No. 1,350,553; Aug. 24; v. 277; p. 643.
Macmillan, Colin H., Anniesland, Glasgow, Scotland. Reversing-gear. No. 1,350,324; Aug. 24; v. 277; p. 598.
MacPherson, Warren, Cambridge, Mass. Rubber shoe-bottom. No. 1,350,930; Aug. 24; v. 277; p. 715.
Malcolm, James, Holyoke, Mass. Transmission-lock for automobiles. No. 1,351,001; Aug. 24; v. 277; p. 729.
Maloney, Michael D., Hadlock, Wash. Match-box. No. 1,350,977; Aug. 24; v. 277; p. 724.
Mancuso, Benjamin, Batavia, N. Y. Pipe-sleeve. No. 1,350,615; Aug. 24; v. 277; p. 656.
Manning, Roland B., and L. R. Moore, Dallas, Tex. Steam-generator. No. 1,350,554; Aug. 24; v. 277; p. 643.
Maples, Lawrence, Chicago, Ill. Washing-machine. No. 1,350,823; Aug. 24; v. 277; p. 696.
Mapson, Robert L., assignor of one-third to L. Sperbeck and one-third to E. I. Wheeler, Los Angeles, Calif. Combined spare-tire support and rim-removing apparatus. No. 1,350,372; Aug. 24; v. 277; p. 607.
Marr, Alexander W., Canton, Ohio. Quick-action jack. No. 1,350,663; Aug. 24; v. 277; p. 665.
Marshall, James P., Indianapolis, Ind. Repair-jack stand. No. 1,350,555; Aug. 24; v. 277; p. 644.
Marszalek, Ludwik, Passaic, N. J. Railway-switch. No. 1,350,373; Aug. 24; v. 277; p. 607.
Martenay, Alphonse J. (See Schwarz, E. R., and Martenay.)
Martin, Charles C., and J. H. Cotton, assignor to Kilborne and Jacobs Manufacturing Company, Columbus, Ohio. Automobile-vehicle. No. 1,350,462; Aug. 24; v. 277; p. 626.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Measured-service-telephone system. No. 1,350,875; Aug. 24; v. 277; p. 704.
Mastin, Ellsworth, *et al.* (See Mowatt, Alexander, assignor.)
Mathews, Frederick C., Company. (See Tanzey, William J., assignor.)
Matthews Engineering Company, The. (See Cosgray, Mark C., assignor.)
Matthews, Frederick W., assignor, by mesne assignments, to Arrow Phonograph Corporation, West Orange, N. J. Talking-machine record, and method and tool for making such records. No. 1,350,510; Aug. 24; v. 277; p. 635.
Mayer, Walter S., and W. C. Kennedy, New Brighton, Pa. Electric furnace. No. 1,350,876; Aug. 24; v. 277; p. 705.
Mayer, Walter S., and W. C. Kennedy, New Brighton, Pa. Oxidizing materials in electric furnaces. No. 1,350,877; Aug. 24; v. 277; p. 705.

Meckling, Jonas J., Jr., Pittsburgh, Pa. Clothes-prop. No. 1,350,978; Aug. 24; v. 277; p. 724.

Meem, James C., assignor of one-half to F. L. Cranford, Brooklyn, N. Y. Tunnel-lining. No. 1,350,556; Aug. 24; v. 277; p. 644.

Merriman, Grove R., assignor to J. R. Vander Putten, Akron, Ohio. Brush for carpet-sweepers. No. 1,350,664; Aug. 24; v. 277; p. 665.

Mersch, Bernard H., Covington, Ky. Demountable-rim breaker. No. 1,350,418; Aug. 24; v. 277; p. 617.

Mersfelder, William L. (See Barbour, W. T., and Mersfelder.)

Mershon, Ralph D., New York, N. Y., and P. A. Ross, Norwalk, Conn.; said Ross assignor to said Mershon. Welding condenser parts. No. 1,350,557; Aug. 24; v. 277; p. 644.

Messenger, Isaiah L., McGraw, N. Y. Screw driver and placer. No. 1,350,538; Aug. 24; v. 277; p. 644.

Metal & Thermit Corporation. (See Deppeler, John H., assignor.)

Metcalf, William F., *et al.* (See Holmes, Anderson M., assignor.)

Meyer, Erwin E. A. G., Detroit, Mich., assignor to Morgan & Wright. Vulcanizing rubber. No. 1,350,824; Aug. 24; v. 277; p. 696.

Meyer, George U. (See Lederer, S. L., and Meyer.)

Meyerhofer, Albert F., Mannheim, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing dense ware from bauxite. No. 1,350,825; Aug. 24; v. 277; p. 696.

Michal, Alexander, West Orange, N. J. Belt-stapling device. No. 1,350,826; Aug. 24; v. 277; p. 696.

Michalek, Rudolph B., Newark, N. J. Cinematograph. No. 1,350,374; Aug. 24; v. 277; p. 608.

Miehle Printing Press and Manufacturing Company. (See Blaine, Joseph R., assignor.)

Miller, Alfred H., Philadelphia, Pa., assignor to Wright Roller Bearing Company. Assembling antifriction-bearings. No. 1,350,325; Aug. 24; v. 277; p. 598.

Miller, Edward, Columbus, Ohio, assignor to C. J. Root, Terre Haute, Ind. Glass-working machine. No. 1,350,375; Aug. 24; v. 277; p. 608.

Miller, Ernest A. F., Jr. (See Miller, William L., and E. A. F., Jr.)

Miller, Henry S., Washington, D. C. Perforating-rule. No. 1,351,002; Aug. 24; v. 277; p. 729.

Miller, John H. K., Clapham, London, S., England. Divider, caliper, and like instrument. No. 1,350,511; Aug. 24; v. 277; p. 635.

Miller, Walter H., Orange, N. J. Phonograph. No. 1,350,616; Aug. 24; v. 277; p. 656.

Miller, William L., and E. A. F., Jr., assignors of one-third to N. A. Cooke, Coffeyville, Kans. Direction-signal for automobiles. No. 1,350,463; Aug. 24; v. 277; p. 626.

Mills, Arthur, Sacramento, Calif. Vehicle-wheel. No. 1,350,617; Aug. 24; v. 277; p. 656.

Minneapolis Threshing Machine Co. (See Hill, Chauncy H., assignor.)

Modrell, Arthur E., near Saxton, Mo. Automatic tractor-oiler. No. 1,350,559; Aug. 24; v. 277; p. 645.

Moffatt, James R., Chicago, Ill., assignor to Union Special Machine Company. Stitch-forming mechanism for sewing-machines. No. 1,350,326; Aug. 24; v. 277; p. 598.

Moffatt, James R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Loop-retainer for sewing-machines. No. 1,350,931; Aug. 24; v. 277; p. 715.

Moir, Mabel, San Francisco, Calif. Bed. No. 1,350,327; Aug. 24; v. 277; p. 598.

Montgomery, James W., Thomasville, Ga. Combined harrow and cultivator. No. 1,350,876; Aug. 24; v. 277; p. 608.

Moore, Lee R. (See Manning, R. B., and Moore.)

Moore, Roy W., Schenectady, N. Y., assignor to General Electric Company. Making silicon tetrachlorid. No. 1,350,932; Aug. 24; v. 277; p. 716.

Morgan & Wright. (See Jury, Alfred E., assignor.)

Morgan & Wright. (See Meyer, Edwin E. A. G., assignor.)

Morrill, Alfred R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inseam sewing-machine. No. 1,350,377; Aug. 24; v. 277; p. 608.

Morrison, Walter L., Los Angeles, Calif. Process and apparatus for reducing metallic oxids. No. 1,350,419; Aug. 24; v. 277; p. 617.

Morrison, William F., Vallejo, Calif. Concrete tie. No. 1,350,420; Aug. 24; v. 277; p. 617.

Motor Terminals Company. (See Fitch, Benjamin F., assignor.)

Mouldin, George W., Danville, Ill. Motorcycle. No. 1,350,878; Aug. 24; v. 277; p. 705.

Movsessian, Missak. (See Vincent, Joseph E., assignor.)

Mowatt, Alexander, Warkworth, assignor, by direct and mesne assignments, of one-third to J. H. E. Vrooman, one-third to B. Asselstine, and one-third to E. Mastin, Belleville, Ontario, Canada. Harrow for eliminating quack-grass and the like. No. 1,350,512; Aug. 24; v. 277; p. 635.

Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)

Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Fuller-ball. No. 1,350,378; Aug. 24; v. 277; p. 608.

Muller, Henry, East Orange, N. J. Card-index. No. 1,350,665; Aug. 24; v. 277; p. 665.

Murphy, Stephen J., Drogheda, Ireland. Storage cylinder or vessel for compressed air or gas. No. 1,350,666; Aug. 24; v. 277; p. 665.

Murphy, Thomas J. (See Wilbur, M. D., Cannon, and Murphy.)

Murray, Joseph B. (See Murray, Thomas E., Jr., and J. B.)

Murray, Thomas E., New York, N. Y. Sheet-metal vehicle-wheel. No. 1,350,827; Aug. 24; v. 277; p. 696.

Murray, Thomas E., New York, N. Y. Making a plurality of like tubular objects. No. 1,350,829; Aug. 24; v. 277; p. 697.

Murray, Thomas E., Brooklyn, N. Y. Closure for openings in boiler-headers. No. 1,350,832; Aug. 24; v. 277; p. 697.

Murray, Thomas E., Brooklyn, N. Y. Electrically welding transverse plates to tubes. No. 1,350,833; Aug. 24; v. 277; p. 697.

Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Hollow projectile shell of sheet metal. No. 1,350,828; Aug. 24; v. 277; p. 697.

Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Making housings for automobile transmission-gear. No. 1,350,830; Aug. 24; v. 277; p. 697.

Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electric welding. No. 1,350,831; Aug. 24; v. 277; p. 697.

Muschenheim, Frederick A., and F. W. Blasdale, New York, N. Y. Switchboard and the like. No. 1,350,328; Aug. 24; v. 277; p. 598.

Nachenius, Henri A. J. D., Haarlem, Netherlands. Reversible traversing motion. No. 1,350,560; Aug. 24; v. 277; p. 645.

Nadel, Louis D. (See Catucci, P., and Nadel.)

Napier, Charles, assignor to Napier Saw Works Inc., Springfield, Mass. Apparatus for making tempered blades. No. 1,350,618; Aug. 24; v. 277; p. 656.

Napier Saw Works. (See Napier, Charles, assignor.)

National Brake & Electric Company. (See Aikman, Burton S., assignor.)

National Carbon Company. (See Rampp, Frank, assignor.)

National Supply Company, The. (See Wright, Clyde S., assignor.)

Neely, Rant Y., Willamina, Oreg. Signal for motor-vehicles. No. 1,350,513; Aug. 24; v. 277; p. 636.

Neff, Harry D., Cambridge, assignor to Re-Filit Broom Company, Boston, Mass. Broom-holder. No. 1,350,514; Aug. 24; v. 277; p. 636.

Nelson, Charles R., Seattle, Wash. Clothes-pressing machine. No. 1,350,379; Aug. 24; v. 277; p. 608.

Nelson, Frank C., assignor of one-half to G. W. DeWitt, Clarksburg, W. Va. Clothesline. No. 1,350,380; Aug. 24; v. 277; p. 609.

New York Belting & Packing Company. (See Kent, William J., assignor.)

Nierodka, Jan, Detroit, Mich. Combination trunk and table. No. 1,350,834; Aug. 24; v. 277; p. 698.

Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)

Niles-Bement Pond Company. (See Greenleaf, George E., assignor.)

Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)

Noble, Irvine M., and W. E. Gossling, Indianapolis, Ind., assignors to The Prest-O-Lite Company, Inc. Storage battery. No. 1,350,561; Aug. 24; v. 277; p. 645.

Non Skid Company of America. (See Bailey, William F. A., assignor.)

North East Electric Company. (See Williams, Anthony F., assignor.)

Nylund, Andro, Juneau, Alaska. Shingle-cutting machine. No. 1,350,879; Aug. 24; v. 277; p. 705.

Obrima Automatische Waagenbau-Actiengesellschaft. (See Kader, Carl, assignor.)

Oca-Balda, José A., New York, N. Y. Alternated time-controlled mechanism for irons. No. 1,350,933; Aug. 24; v. 277; p. 716.

Onderdonk, Lansing and A. J. Wohlpart, New York, N. Y., assignors to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,350,934; Aug. 24; v. 277; p. 716.

Ochs, George F. A., Newark, N. J. Railway-tie. No. 1,350,381; Aug. 24; v. 277; p. 609.

Ogden, John E., Cornwall, N. Y. Folded metal expansion-shield. No. 1,350,562; Aug. 24; v. 277; p. 645.

Ohio Malleable Iron Company, The. (See Anderson, David G., assignor.)

Ohio Motor Vehicle Company, The. (See Guthrie, James, assignor.)

Oil Well Supply Company. (See Mack, Patrick H., assignor.)

Olson, Eugene A., East Hartford, Conn. Combination card and memorandum-book. No. 1,350,733; Aug. 24; v. 277; p. 678.

Oppel, John V. (See Ettler, John A., assignor.)

Ortiz, Julien, Greenville, Del. Floating fortress. No. 1,350,667; Aug. 24; v. 277; p. 665.

Osborne, Harry E., Spokane, Wash. Rotary gas-engine. No. 1,350,880; Aug. 24; v. 277; p. 705.

Oschger, Joseph P., Chicago, Ill. Hydraulic elevator. No. 1,350,563; Aug. 24; v. 277; p. 646.

Overlin, William S., Portland, Oreg. Means for electrically marking upon metals. No. 1,350,734; Aug. 24; v. 277; p. 679.

Oversmith, Elmer H., Buffalo, N. Y., assignor to The Buffalo Truck and Tractor Corporation, Buffalo, N. Y. Motor-vehicle. No. 1,350,668; Aug. 24; v. 277; p. 666.

Owen, Donham, Berkeley, Calif. Adjustable school-disk. No. 1,350,669; Aug. 24; v. 277; p. 666.

Owen, John S., *et al.* (See Harmon, Alton D., assignor.)

Owens Bottle Machine Company, The. (See Graham, J. B., and La France, assignors.)

Owens Bottle Machine Company, The. (See Owens, Michael J., assignor.)

Owens, Michael J., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Means for transferring hot glass. No. 1,350,464; Aug. 24; v. 277; p. 626.

Owens, Percy R., Mount Kisco, N. Y. Electrical control system. No. 1,350,382; Aug. 24; v. 277; p. 609.

P. & M. Company, The. (See Warr, Harold G., assignor.)

Pace, Jefferson D., assignor to Acme Oil & Drill Co., Inc., Shreveport, La. Well-drilling bit for oil, water, or gas. No. 1,351,003; Aug. 24; v. 277; p. 729.

Palahniuk, John, Brule Mines, Alberta, Canada. Cork-extractor. No. 1,350,383; Aug. 24; v. 277; p. 609.

Parker, Christine R. (See Parker, George H., assignor.)

Parker, Frederick R., Chicago, Ill. Electrical protective apparatus. No. 1,350,329; Aug. 24; v. 277; p. 599.

Parker, George H., assignor to C. R. Parker, Stamford, Conn. Game. No. 1,350,384; Aug. 24; v. 277; p. 610.

Parker, Riley H. (See Tzibides, J. N., and Parker.)

Partonnar, Ora L., Kansas City, Mo. Turntable-rack for ovens. No. 1,350,330; Aug. 24; v. 277; p. 599.

Pastor, Frank, Akron, assignor to The Anchor Rubber Company, Inc., Barberton, Ohio. Toy balloon. No. 1,350,935; Aug. 24; v. 277; p. 716.

Pattison, Roscoe, C., Rochester, N. Y., Apparatus for use in making cores or the like. No. 1,350,564; Aug. 24; v. 277; p. 646.

Payne, Osborn R., Oelwein, Iowa. Mail-box. No. 1,350,515; Aug. 24; v. 277; p. 636.

Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Cartridge-magazine. No. 1,350,619; Aug. 24; v. 277; p. 656.

Peck, Harley T., Lebanon, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Primer for small-arms ammunition. No. 1,350,465; Aug. 24; v. 277; p. 626.

Pedersen, Julius, Bridgeport, Conn. Shelf-reacher. No. 1,350,331; Aug. 24; v. 277; p. 599.

Peek, Frank W., Jr., Pittsfield, Mass., assignor to General Electric Company. Insulator. No. 1,350,936; Aug. 24; v. 277; p. 716.

Perkins, B. F., & Son, Inc. (See Bartlett, Henry B., assignor.)

Perkins, John L., Sabetha, Kans. Oil-burner. No. 1,350,466; Aug. 24; v. 277; p. 627.

Perry, Charles L., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,350,937; Aug. 24; v. 277; p. 717.

Perry, James P., Glencoe, N. Mex. Boiler. No. 1,350,565; Aug. 24; v. 277; p. 646.

Perry, John. (See Leviston, W., and Perry.)

Peters Cartridge Company, The. (See Peck, Harley T., assignor.)

Peterson, Marinus, Kenmare, N. Dak. Aeroplane. No. 1,350,938; Aug. 24; v. 277; p. 717.

Peterson, Louis P., Enderlin, N. Dak. Attachment for internal-combustion engines. No. 1,350,385; Aug. 24; v. 277; p. 610.

Petit, Henri, Ermont, France. Mean-speed indicator. No. 1,350,620; Aug. 24; v. 277; p. 656.

Pettit, John, Taft, Calif. Oil-pump. No. 1,350,939; Aug. 24; v. 277; p. 717.

Pettit, John R., New York, N. Y. Rubber heel. No. 1,350,332; Aug. 24; v. 277; p. 599.

Pfeifer, Frederick W., St. Louis, Mo. Folding cot and stretcher. No. 1,350,516; Aug. 24; v. 277; p. 636.

Pfund, August H., Baltimore, Md. Colorimetry of paints and pigments. No. 1,350,386; Aug. 24; v. 277; p. 610.

Pfunder, Louise M., Portland, Oreg. Thread holding and cutting attachment for spools. No. 1,350,881; Aug. 24; v. 277; p. 706.

Phillips, Durland J., Buffalo, N. Y. Relieving attachment for lathes or the like. No. 1,350,735; Aug. 24; v. 277; p. 679.

Phillips, Lewis F. (See Truesdell, A. E., and Phillips.)

Pickup, John H., Philadelphia, Pa., assignor of one-half to G. A. Wilson, New York, N. Y. Treating fibers. No. 1,350,621; Aug. 24; v. 277; p. 657.

Pihlfeldt, Thomas G., and F. C. Hartung, Chicago, Ill. Oil-cup. No. 1,350,566; Aug. 24; v. 277; p. 646.

Pisciotta, Sam, Kansas City, Mo. Interlocking-block wall construction. No. 1,350,835; Aug. 24; v. 277; p. 698.

Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,350,387; Aug. 24; v. 277; p. 610.

Podjevin, Joseph, Schenectady, N. Y. Moving-picture machine. No. 1,350,388; Aug. 24; v. 277; p. 610.

Posson, Edward, Chicago, Ill. Pneumatic-tire drive for dynamos of railway-cars. No. 1,350,467; Aug. 24; v. 277; p. 627.

Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,350,882; Aug. 24; v. 277; p. 706.

Pratt & Whitney Company. (See Thacker, John J., assignor.)

Prest-O-Lite Company, The. (See Noble, I. M., and Gossling, assignors.)

Pridgen, Wiley H., Creek, N. C. Compressed-air device for handling gasolene. No. 1,350,517; Aug. 24; v. 277; p. 636.

Prisbrey, George W., assignor of one-third to Grant Prisbrey, St. George, Utah. Artificial leg. No. 1,350,518; Aug. 24; v. 277; p. 637.

Prisbrey, Grant. (See Prisbrey, G. W., assignor.)

Providence Stock Company. (See Lederer, S. L., and Meyer, assignors.)

Prud'homme, Hippolyte M., assignor to L. F. Sherman, trustee, Boston, Mass. Method of and apparatus for producing stereoscopic motion-picture films. No. 1,350,836; Aug. 24; v. 277; p. 698.

Pruitt, Orin M., assignor to Indiana Air Pump Company, Indianapolis, Ind. Air-lift separator-pump. (Reissue.) No. 14,937; Aug. 24; v. 277; p. 730.

Pukell, Joseph M., Duluth, Minn. Pipe-flange wrench. No. 1,350,519; Aug. 24; v. 277; p. 637.

Radtke, Albert A., Chicago, Ill. Method of and means for establishing electrical circuits. No. 1,350,334; Aug. 24; v. 277; p. 600.

Rampp, Frank, assignor to National Carbon Company, Inc., New York, N. Y. Portable electric light. No. 1,350,857; Aug. 24; v. 277; p. 698.

Rasmussen, Martin, Racine, assignor to A. R. Tesch, Milwaukee, Wis. Separable broom-head and filler therefor. No. 1,350,520; Aug. 24; v. 277; p. 637.

Ray, Xolon O., Chaffee, Mo. Display-stand. No. 1,350,940; Aug. 24; v. 277; p. 717.

Records, Paul A., Perryton, Tex. Pusher attachment for tractors. No. 1,350,838; Aug. 24; v. 277; p. 698.

Redeker, Edward S. (See Clark, Edward O., assignor.)

Reece Button Hole Machine Company, The. (See Kiewics, John, assignor.)

Reed, George H., Newark, N. J. Support for reinforcing-rods. No. 1,350,335; Aug. 24; v. 277; p. 600.

Reeves, George C., Chicago, Ill., assignor to Dryden Rubber Company. Weather-strip. No. 1,350,883; Aug. 24; v. 277; p. 706.

Re-Filit Broom Company. (See Neff, Harry D., assignor.)

Reid, John, New York, N. Y. Furnace-front baffle construction. No. 1,350,468; Aug. 24; v. 277; p. 627.

Reilly, Joseph J., Newark, N. J. Window-curtain fixture. No. 1,350,336; Aug. 24; v. 277; p. 600.

Rendle, Arthur E., Philadelphia, Pa. Non-slippable sole. No. 1,350,839; Aug. 24; v. 277; p. 699.

Revere Rubber Company. (See Brogden, Joseph, T., assignor.)

Rhodes, George I., Glen Ridge, and H. V. Coes, Montclair, N. J. Process and apparatus for conveying and treating materials. No. 1,350,337; Aug. 24; v. 277; p. 600.

Rail, Lee, and W. Hebern; said Hebern assignor of one-fourth to E. J. McLaughlin and one-fourth to J. F. Sullivan, San Francisco, Calif. Steering-wheel mounting. No. 1,350,841; Aug. 24; v. 277; p. 699.

Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. No. 1,350,941; Aug. 24; v. 277; p. 718.

Richards, Brayton G., Chicago, Ill. Toy. No. 1,350,338; Aug. 24; v. 277; p. 600.

Richards, James E., Horton township, Renfrew county, Ontario, Canada. Shell. No. 1,350,339; Aug. 24; v. 277; p. 601.

Richardson, Henry, Passaic, N. J. Grain-unloading and grain-car-track construction. No. 1,350,736; Aug. 24; v. 277; p. 679.

Rieck, William L. (See Gerritson, J., and Rieck.)

Riess, William H., Cincinnati, Ohio. Telephone-operating device. No. 1,350,737; Aug. 24, v. 277; p. 679.

Rigga, Marion L., Bertha, Minn. Vehicle-spring. No. 1,350,942; Aug. 24, v. 277; p. 718.

Ritter, Mathew, Freehold, N. J. Speed-changing mechanism. No. 1,350,670; Aug. 24; v. 277; p. 666.

Robbins, Arthur I., Quincy, Mass. Spar and boom turning machine. No. 1,350,840; Aug. 24; v. 277; p. 699.

Robin, Jacob I., New York, N. Y. Gas-heater. No. 1,351,004; Aug. 24; v. 277; p. 729.

Robin, Jacob I., New York, N. Y. Gas-heater. No. 1,351,005; Aug. 24; v. 277; p. 729.

Rogers, Solomon D., Sacramento, assignor to Commercial Cars Construction Co., San Francisco, Calif. Railway-car. No. 1,350,567; Aug. 24; v. 277; p. 647.

Rogowski, Felix, Chicago, Ill. Razor-sharpener. No. 1,350,884; Aug. 24; v. 277; p. 706.

Rolls-Royce, Limited. (See Royce, Frederick H., assignor.)

Romadka, Rudolph, Milwaukee, Wis. Car-wheel. No. 1,350,738; Aug. 24; v. 277; p. 679.

Roman, James G., Wilmington, Del. Compound for external application. No. 1,350,842; Aug. 24; v. 277; p. 699.

Roman, James G., Wilmington, Del. Hair and scalp remedy. No. 1,350,843; Aug. 24; v. 277; p. 699.

Root, Chapman J. (See Miller, Edward, assignor.)

Roots, Richard W., Ballarat, Victoria, Australia, assignor of one-third to S. Roots, Ballarat, Victoria, Australia, and one-third to J. Falconer, Wellington, New Zealand. Oil-filter. No. 1,350,521; Aug. 24; v. 277; p. 637.

Roots, Stanley, *et al.* (See Roots, Richard W., assignor.)

Rose, Alonzo N., Mount Vernon, N. Y. Measuring-liquid dispenser. No. 1,350,739; Aug. 24; v. 277; p. 680.

Rosner, Adolph, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Fuel system for internal-combustion engines. No. 1,350,421; Aug. 24; v. 277; p. 617.
Ross, Percy A. (See Mershon, R. D., and Ross.)
Rowe, Levi L., Boston, Mass. Faucet. No. 1,350,885; Aug. 24; v. 277; p. 706.
Royce, Frederick H., assignor to Rolls-Royce, Limited, Derby, England. Epicyclic gearing. No. 1,350,522; Aug. 24; v. 277; p. 637.
Royer, Jesse R., Janesville, Iowa. Animal-feeding device. No. 1,350,523; Aug. 24; v. 277; p. 638.
Rubin, Adolph, assignor to Sieber Products Mfg. Co., St. Louis, Mo. Loose-leaf binder. No. 1,350,422; Aug. 24; v. 277; p. 617.
Runkel, Albert C., Milwaukee, Wis. Electric-lamp support. No. 1,350,423; Aug. 24; v. 277; p. 618.
Rutenber, Menzo A., Collinsville, Okla. Roller-door equipment. No. 1,350,622; Aug. 24; v. 277; p. 657.
Rydbeck, Patrik S., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Machine for pressing rings having profiled inner surfaces. No. 1,350,568; Aug. 24; v. 277; p. 647.
Safe-Cabinet Company, The. (See Dick, R. H., Wolters, and Sutter, assignors.)
Sampson, Samuel, New York, N. Y. Soft-collar holder. No. 1,350,569; Aug. 24; v. 277; p. 647.
Sanchez, Rufo, Newark, N. J. Wedging-block for shipbuilding. No. 1,350,844; Aug. 24; v. 277; p. 699.
Sangamo Electric Company. (See Bard, J. W., and White, assignors.)
Sarjent, Erling, Kingfisher, Okla. Engine. No. 1,350,570; Aug. 24; v. 277; p. 647.
Sauder, Ora K., Grabill, Ind. Wheel or rim spreader. No. 1,350,524; Aug. 24; v. 277; p. 638.
Saxon, Herman R., Toledo, Ohio. Traffic-signal. No. 1,350,469; Aug. 24; v. 277; p. 627.
Sayres, Frank E., Thane, Alaska. Wrench. No. 1,350,671; Aug. 24; v. 277; p. 666.
Sayres, Frank E., Thane, Alaska. Monkey-wrench. No. 1,350,672; Aug. 24; v. 277; p. 666.
Scardone, Joseph, Vineland, N. J. Making torpedoes. No. 1,350,845; Aug. 24; v. 277; p. 699.
Schelter, John C., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Shoelast. No. 1,350,340; Aug. 24; v. 277; p. 601.
Schenmeyer, Frederick W., West Albany, N. Y. Shade and curtain fixture. No. 1,350,623; Aug. 24; v. 277; p. 657.
Schloerb, Arthur H., New York, N. Y. Spool. No. 1,350,979; Aug. 24; v. 277; p. 725.
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Waterproof connection for spark-plugs. No. 1,350,470; Aug. 24; v. 277; p. 627.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Multiple-disk brake. No. 1,351,006; Aug. 24; v. 277; p. 730.
Schnurrenberger, Emil, Paterson, N. J. Dyeing-machine. No. 1,350,740; Aug. 24; v. 277; p. 680.
Scholes, Peter, Hyde, England. Self-acting warp-tension-regulating motion for looms for weaving. No. 1,350,943; Aug. 24; v. 277; p. 718.
Scholz, Frank J., assignor of one-half to R. W. Scholz, Helena, Mont. Single-delivery match-box. No. 1,350,886; Aug. 24; v. 277; p. 707.
Scholz, Raymond W. (See Scholz, Frank J., assignor.)
Schurch, Jacob, assignor to Imperial Electric Company, Holtville, Calif. Power-transmission system. No. 1,350,424; Aug. 24; v. 277; p. 618.
Schwartz, A. Charles. (See Grabau, Hans E., assignor.)
Schwarz, Emerich R., and A. J. Martenay, Chicago, Ill. Tool-rod. No. 1,350,425; Aug. 24; v. 277; p. 618.
Schwartz, John G., New York, N. Y. Safety automobile-lock. No. 1,350,741; Aug. 24; v. 277; p. 680.
Scott, George W., assignor of one-half to W. R. Horton, Cleveland, Ohio. Side curtain for vehicles. No. 1,350,471; Aug. 24; v. 277; p. 627.
Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Saddle and head supporting mechanism for drilling-machines. No. 1,350,525; Aug. 24; v. 277; p. 638.
Seaton, Elvin T., Danbury, Iowa. Hay-loader. No. 1,350,887; Aug. 24; v. 277; p. 707.
Sebring, Frank A., and F. Strobl, Sebring, Ohio. Filling device. No. 1,350,673; Aug. 24; v. 277; p. 666.
Seery, Peter H., Newark, N. J. Bracing-fixture. No. 1,350,674; Aug. 24; v. 277; p. 667.
Seng, Wendelin P., Chicago, Ill. Electrical control system for automobiles. No. 1,350,426; Aug. 24; v. 277; p. 618.
Severy, Melvin L., Los Angeles, Calif. Orthopedic device. No. 1,350,944; Aug. 24; v. 277; p. 718.
Sheldon, Samuel B., Duluth, Minn. Gas-producer. No. 1,350,472; Aug. 24; v. 277; p. 628.
Sheldon, Samuel B., Duluth, Minn. Gas-producer arrangement. No. 1,350,473; Aug. 24; v. 277; p. 628.
Sheldon, Samuel B., Duluth, Minn. Gas-producer. No. 1,350,474; Aug. 24; v. 277; p. 628.
Sheldon, Samuel B., Duluth, Minn. Gas-producer. No. 1,350,475; Aug. 24; v. 277; p. 628.
Shelton, William G., New York, N. Y. Phonograph-motor. No. 1,350,571; Aug. 24; v. 277; p. 647.
Shephard, Samuel T., Albany, N. Y. Display-stand. No. 1,351,007; Aug. 24; v. 277; p. 730.
Sheppard, Joel F., 2d, and W. D. Fletcher, Dover, N. H. Woodworking-machine. No. 1,350,341; Aug. 24; v. 277; p. 601.
Sherman, Lawrence F., trustee. (See Prud'homme, Hippolyte M., assignor.)
Sholl, Max S., Chicago, Ill. Deposit and collection receptacle. No. 1,350,742; Aug. 24; v. 277; p. 680.
Sieber Products Mfg. Co. (See Rubin, Adolph, assignor.)
Shumaker, Louis W. (See Delany, P. B., and Shumaker, assignors.)
Simmen, Paul J., Buffalo, N. Y. Automatic speed-controller for moving vehicles. No. 1,350,476; Aug. 24; v. 277; p. 629.
Simons, Henry C., Odebolt, Iowa. Disk-sharpening device. No. 1,350,888; Aug. 24; v. 277; p. 707.
Simpson, William M., assignor of one-half to W. L. Sun, Portland, Oreg. Washing-machine. No. 1,351,008; Aug. 24; v. 277; p. 730.
Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Sitkiewitz, Louis H. (See Blank, M. R., and Sitkiewitz.)
Skoglund, Gustaf, Minneapolis, Minn. Artificial limb. No. 1,350,743; Aug. 24; v. 277; p. 681.
Slaughter, Osceola C., Omaha, Nebr. Lock for steering mechanisms. No. 1,350,526; Aug. 24; v. 277; p. 638.
Small, James W., Chicago, Ill. Bottle-capper. No. 1,350,477; Aug. 24; v. 277; p. 629.
Smith, Charles, Providence, R. I. Automatic machine for making frames for wreaths. No. 1,351,009; Aug. 24; v. 277; p. 730.
Smith, George H., Providence, assignor to C. D. Kenney, Cranston, R. I. Curtain-support. No. 1,350,846; Aug. 24; v. 277; p. 700.
Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Welding apparatus. No. 1,350,572; Aug. 24; v. 277; p. 648.
Smith, Herschel C. (See Belt, W. M., and Smith.)
Smith, James H., Salisbury Mills, N. Y. Lifting-tongs. No. 1,350,675; Aug. 24; v. 277; p. 667.
Smith, John T., Hopkins, Minn. Attachment for threshing-machines. No. 1,350,847; Aug. 24; v. 277; p. 700.
Smith, Marie, *et al.* (See Holmes, Anderson M., assignor.)
Smith, Raymond D., Milton, assignor to Tremont Products Company, Boston, Mass. Thermostatically-controlled device. No. 1,350,573; Aug. 24; v. 277; p. 648.
Smith, Raymond D., Milton, assignor to Tremont Products Company, Boston, Mass. Reciprocative actuating mechanism. No. 1,350,574; Aug. 24; v. 277; p. 648.
Smith, Raymond D., Milton, assignor to Tremont Products Company, Boston, Mass. Selective actuating mechanism. No. 1,350,575; Aug. 24; v. 277; p. 648.
Smith, Thomas K., Tulsa, Okla. Apparatus for separating gases and vapors from liquids. No. 1,350,576; Aug. 24; v. 277; p. 649.
Smith, T. L., Company, The. (See Brackenbury, Edward W., assignor.)
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for percussive tool. No. 1,350,342; Aug. 24; v. 277; p. 601.
Smith, William H., East Cleveland, Ohio. Heat-treating box. No. 1,350,427; Aug. 24; v. 277; p. 618.
Smith, Winfield D., assignor of one-half to H. F. Hayes, Jr., Newark, N. J. Occupant-propelled vehicle. No. 1,350,577; Aug. 24; v. 277; p. 649.
Societa Anonima Stabilimenti Biak. (See Tedesco, Arrigo, assignor.)
Societe Ch. M. Stein & Cie. (See Stein, Charles, assignor.)
Society of Chemical Industry in Basle. (See Hartmann, M., and Wybert, assignors.)
Sonn, Sidney H., New York, N. Y. Spacer for display boxes or cartons. No. 1,350,744; Aug. 24; v. 277; p. 681.
Sonora Phonograph Corporation. (See Farb, Pincus, assignor.)
Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
South, Thomas W., assignor of one-half to R. A. Gilbertson, De Kalb, Ill. Time-controlled mechanism for operating electric switches. No. 1,350,389; Aug. 24; v. 277; p. 611.
Southern Implement Manufacturing Company. (See Harrington, John L., assignor.)
Speers, James W. (See Beck, O. F., Speers, and Jones.)
Speight, Henry C., Bradford, England. Doffing mechanism for spinning-frames and the like. No. 1,350,578; Aug. 24; v. 277; p. 649.
Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Rotary air-pump. No. 1,350,745; Aug. 24; v. 277; p. 681.
Spencer Turbine Company, The. See Spencer, Ira H., assignor.)
Sperbeck Lorenzo, *et al.* (See Mapson, Robert L., assignor.)
Spillmann, Heinrich, Zurich, Switzerland. Lathe-chuck. No. 1,350,746; Aug. 24; v. 277; p. 681.
Sponenburg, Hiram H., Gurnee, assignor, by mesne assignments, to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,350,676; Aug. 24; v. 277; p. 667.

Sponenburg, Hiram H., Gurnee, assignor, by mesne assignments, to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,350,677; Aug. 24; v. 277; p. 667.
Stafford, Charles M., Minneapolis, Minn. Portable house. No. 1,350,478; Aug. 24; v. 277; p. 629.
Staley, Joseph H., Columbus, Ind. Auto-ambulance truck. No. 1,350,527; Aug. 24; v. 277; p. 639.
Standard Optical Company. (See Van Tassel, John R., assignor.)
Stanley Insulating Company. (See Smith, Herbert M., assignor.)
Starkweather, Amy R., Amsterdam, N. Y. Underskirt. No. 1,350,848; Aug. 24; v. 277; p. 700.
Starr, Raymond F., *et al.* (See De Cano, Victor M., assignor.)
Stein, Charles, Paris, assignor to Societe Ch. M. Stein & Cie., Paris, France. Regenerative furnace. No. 1,350,624; Aug. 24; v. 277; p. 657.
Stein, Clarence L., assignor of one-half to H. M. Johnson, Aurora, Ill. Fish-stringer. No. 1,350,390; Aug. 24; v. 277; p. 611.
Stenger, Francis J., assignor of one-half to L. J. Goyette, Detroit, Mich. Ball-joint piston-connecting rod. No. 1,350,747; Aug. 24; v. 277; p. 681.
Stern, Adolf, assignor to F. W. Stewart Mfg. Co., Chicago, Ill. Piston-ring and the like. No. 1,350,849; Aug. 24; v. 277; p. 700.
Stevens, George H., Woodbury Heights, N. J. Gas-burner. No. 1,350,678; Aug. 24; v. 277; p. 667.
Stevenson, Charles M., Rockford, Ill. Stanchion-fastener and shock-absorber. No. 1,350,679; Aug. 24; v. 277; p. 668.
Stewart, F. W., Mfg. Co. (See Stern, Adolf, assignor.)
Stewart, Franklin W., Chicago, Ill. Roller-bearing. No. 1,350,680; Aug. 24; v. 277; p. 668.
Stickney, Burnham C., Elizabeth, N. J., and A. A. Johnson, assignors to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,350,681; Aug. 24; v. 277; p. 668.
Stiles, Luster, Jr., Evansville, Ind. Oil-atomizer. No. 1,350,391; Aug. 24; v. 277; p. 611.
Stine, George R., Los Angeles, Calif. Folding furniture. No. 1,351,013; Aug. 24; v. 277; p. 731.
Stobs, Thomas, and W. Lightell, Maywood, Ill. Signaling-lamp for motor-vehicles. No. 1,350,682; Aug. 24; v. 277; p. 668.
Stockdale, Dorsey M., Carmichaels, Pa. Hatpin. No. 1,350,945; Aug. 24; v. 277; p. 718.
Stockdale, Dorsey M., Ellenboro, W. Va. Reel. No. 1,350,946; Aug. 24; v. 277; p. 718.
Stone, Edward L. (See Bates, W. B., and Stone.)
Stone, William, New York, N. Y. Purse. No. 1,350,980; Aug. 24; v. 277; p. 725.
Stoute, Arthur L. P., *et al.*, executors. (See Stoute, Richard A., assignor.)
Stoute, Richard A., deceased, Branksmere, Barbados, British West Indies; J. G. C. Ward and A. L. P. Stoute, executors. Wheel-spoke-repair means. No. 1,350,528; Aug. 24; v. 277; p. 639.
Stowell, Edward R., Portland, Ind., assignor to Stowell Fireproofing Company, Manistee, Mich. Making an insulating and protective coating. No. 1,350,343; Aug. 24; v. 277; p. 601.
Stowell Fireproofing Company. (See Stowell, Edward R., assignor.)
Stringfellow, Henry A., and E. W. Templin, Rochester, N. Y. Steam-engine. No. 1,350,625; Aug. 24; v. 277; p. 657.
Stringham, George R., assignor, by mesne assignments, to M. V. Kelley, trustee, New York, N. Y. Motion-picture camera. No. 1,350,683; Aug. 24; v. 277; p. 669.
Strobl, Frank. (See Sebring, F. A., and Strobl.)
Stromberg-Carlson Telephone Manufacturing Company. (See Dean, William W., assignor.)
Strong, Annie W. S., *et al.* (See Harmon, Alton D., assignor.)
Strosaker, Charles J. (See Dow, H. H., and Strosaker.)
Stroud, William. (See Barr, A., Stroud, and d'Albe.)
Stuart, George W., Bay Minette, Ala. Vine-cutter. No. 1,350,529; Aug. 24; v. 277; p. 639.
Stupar, Max, assignor to A. J. Elias, Buffalo, N. Y. Launching device for flying-machines. No. 1,350,947; Aug. 24; v. 277; p. 719.
Stupar, Max, assignor to Abraham J. Elias, Buffalo, N. Y. Detachable stabilizing-fin for flying-machines. No. 1,350,948; Aug. 24; v. 277; p. 719.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,350,626; Aug. 24; v. 277; p. 658.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Crushing-roll machine. No. 1,350,748; Aug. 24; v. 277; p. 682.
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sullivan, Frank, Cusick, Wash. Portable irrigating device. No. 1,350,684; Aug. 24; v. 277; p. 669.
Sullivan, Joseph, *et al.* (See Real, L., and Hebern, assignors.)
Summerhayes, Henry R. (See Craighead, James R., and Summerhayes.)
Sun, Woo L. (See Simpson, William M., assignor.)
Sutter, Roser B. (See Dick, R. H., Wolters, and Sutter.)
Svenska Aktiebolaget Gassaccumulator. (See Dalén, Gustaf, assignor.)
Sweet, Frederick D., Cleveland, Ohio. Apparatus for priming engines. No. 1,350,344; Aug. 24; v. 277; p. 601.
Sylvain, George A., Ottawa, Ontario, Canada. Key. No. 1,350,749; Aug. 24; v. 277; p. 682.
Szumkowski, Leonard S., assignor to Ursus Motor Company, Chicago, Ill. Automobile tractor. No. 1,350,889; Aug. 24; v. 277; p. 707.
Taft, John H. (See Ailes, Adrian S., assignor.)
Talbot, Ernest, Lowestoft, England. Fishing-float. No. 1,350,530; Aug. 24; v. 277; p. 639.
Tally, Carl E., Kopperl, Tex. Railway-switch-operating mechanism. No. 1,350,949; Aug. 24; v. 277; p. 719.
Talos, Janos, Akron, Ohio. Life-saving suit. No. 1,350,950; Aug. 24; v. 277; p. 719.
Tanner Engineering Company. (See Tanner, Harry L., assignor.)
Tanner, Harry L., assignor, by mesne assignments, to Tanner Engineering Company, Inc., Brooklyn, N. Y. Telemetric device. No. 1,350,345; Aug. 24; v. 277; p. 602.
Tanzey, William J., assignor, by mesne assignments, to Frederick C. Mathews Company, Detroit, Mich. Bottle-tag. No. 1,350,890; Aug. 24; v. 277; p. 707.
Taylor, James M., Detroit, Mich. Lock. No. 1,350,392; Aug. 24; v. 277; p. 611.
Taylor, John M., Radnor, assignor to Diamond State Fibre Company, Bridgeport, Pa. Parchmentizing fabric. No. 1,350,685; Aug. 24; v. 277; p. 669.
Taylor, Victor P., New York, N. Y. Alloy. No. 1,350,891; Aug. 24; v. 277; p. 708.
Tedesco, Arrigo, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy. Zinc alloy. No. 1,350,892; Aug. 24; v. 277; p. 708.
Tedesco, Arrigo, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy. Manufacturing aluminum alloys. No. 1,350,893; Aug. 24; v. 277; p. 708.
Telepost Company. (See Delany, P. B., and Shumaker, assignors.)
Templin, Ellis W. (See Stringfellow, H. A., and Templin.)
Ten Broeck, Floyd G., Brooklyn, N. Y., and M. T. Weston, Keansburg, N. J., assignors to West Virginia Pulp & Paper Company, New York, N. Y. Rotary dry-distilling apparatus. No. 1,350,627; Aug. 24; v. 277; p. 658.
Tesch, A. R. (See Rasmussen, Martin, assignor.)
Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Wheel-dressing mechanism. No. 1,350,531; Aug. 24; v. 277; p. 639.
Thiel, Frank, Remsen, Iowa. Rope-measuring device. No. 1,350,894; Aug. 24; v. 277; p. 708.
Thomson, Stuart, Washington, D. C., assignor to General Electric Company. Heating device and control therefor. No. 1,350,895; Aug. 24; v. 277; p. 708.
Thornblade, George P. (See Kollin, Carl F., assignor.)
Tiefel, Charles G., assignor to Todd Protectograph Company, Inc., Rochester, N. Y. Check-writing machine. No. 1,350,428; Aug. 24; v. 277; p. 618.
Todd Protectograph Company. (See Johanson, Magnus H., assignor.)
Todd Protectograph Company. (See Tiefel, Charles G., assignor.)
Tohtz, Helmuth W. (See Brecht, F. v., and Tohtz.)
Toomey, John A., Los Angeles, Calif. Valve for internal-combustion engines. No. 1,350,479; Aug. 24; v. 277; p. 629.
Torsch, Edward L., *et al.* (See Holmes, Anderson M., assignor.)
Touchett, Roy E., Fond du Lac, Wis. Leather-marking apparatus. No. 1,350,346; Aug. 24; v. 277; p. 602.
Trammell, Charles M., Lakeland, Fla., assignor of one-half to E. A. Henske, Washington, D. C. Device for holding extra wheels on bodies of automobiles. No. 1,350,896; Aug. 24; v. 277; p. 708.
Trammell, Charles M., Lakeland, Fla., assignor of one-half to E. A. Henske, Washington, D. C. Device for holding tires upon automobiles. No. 1,350,897; Aug. 24; v. 277; p. 708.
Tremont Products Company. (See Smith, Raymond D., assignor.)
Trew, Arthur S., Portland, Oreg., assignor to Trew Tabulating Machine Company. Automatic pneumatic card-tabulating machine. No. 1,350,850; Aug. 24; v. 277; p. 700.
Trew Tabulating Machine Company. (See Trew, Arthur S., assignor.)
Trowbridge, William S., assignor to American Steel Foundries, Chicago, Ill. Journal dust-guard. No. 1,350,429; Aug. 24; v. 277; p. 619.
Trudelle, John R., Chippewa Falls, Wis. Column construction. No. 1,350,686; Aug. 24; v. 277; p. 669.
Truesdell, Arthur E., Rutland, Vt., and L. F. Phillips, West Stockbridge, Mass. Rotary kiln. No. 1,350,750; Aug. 24; v. 277; p. 682.
Turner, William E., Denton, near Manchester, England. Machine for ornamenting and finishing the surfaces of felt hats. No. 1,350,687; Aug. 24; v. 277; p. 669.
Tuscher, Jean E., Neuchâtel, Switzerland. Circuit-breaking mechanism for internal-combustion engines. No. 1,350,898; Aug. 24; v. 277; p. 709.
Tverdahl, Edward A., Evanston, Ill. Windshield-cleaning device. No. 1,350,751; Aug. 24; v. 277; p. 682.
Typograph G. m. b. H. (See Dorneth, Julius, assignor.)

Tzibides, James N., New York, N. Y., and R. H. Parker, Winthrop, Mass.; said Parker assignor to said Tzibides. Conveying and stacking mechanism. No. 1,350,393; Aug. 24; v. 277; p. 612.
Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)
Underwood Typewriter Company. (See Stickney, B. C., and Johnson, assignors.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Electrical system of power transmission. No. 1,350,899; Aug. 24; v. 277; p. 709.
United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
United Shoe Machinery Corporation. (See Fausse, Joseph, assignor.)
United States Printing and Lithograph Company, The. (See Fuelling, Louis H., assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
Union Special Machine Company. (See Moffatt, J. R. and Kelso.)
Union Special Machine Company. (See Moffatt, James R., assignor.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
Union Special Mach. Company. (See Onderdonk, L., and Wohlpart, assignors.)
United States Envelope Company. (Reissue.) (See Furman, Samuel, assignor.)
Universal Metal Company. (See Brown, M. Lewis, assignor.)
Ursus Motor Company. (See Szumkowski, Leonard S., assignor.)
Usher, George S., Waco, Tex. Railway-bed and rail-support. No. 1,350,900; Aug. 24; v. 277; p. 709.
Vance, Arlyn T., assignor of one-half to F. J. Abbott, Jr., Los Angeles, Calif. Craft with automatic stabilizer. No. 1,350,579; Aug. 24; v. 277; p. 649.
Van der Bijl, Hendrik J., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. High-frequency signaling. No. 1,350,752; Aug. 24; v. 277; p. 682.
Vander Putten, John R. (See Merriman, Grove R., assignor.)
Van Der Vorn, Jacob, Chicago, Ill. Boring-tool. No. 1,350,394; Aug. 24; v. 277; p. 612.
Van Dolsen, Emmet L., Shelbyville, Ind. Power-unit-locating means. No. 1,350,347; Aug. 24; v. 277; p. 602.
Van Pelt, Herbert N. (See Van Pelt, James A., assignor.)
Van Pelt, James A., assignor of one-half to H. N. Van Pelt, Morrilton, Ark. Well-bucket. No. 1,350,348; Aug. 24; v. 277; p. 602.
Van Tassel, John R., assignor to Standard Optical Company, Geneva, N. Y. Ophthalmic mounting. No. 1,350,430; Aug. 24; v. 277; p. 619.
Van Valkenburg, Burt R., Oakland, Calif. Primary valve for pneumatic musical instruments. No. 1,350,395; Aug. 24; v. 277; p. 612.
Van Valkenburg, Burt, R., Oakland, Calif., assignor to American Photo Player Company, Berkeley, Calif. Vacuum-pump. No. 1,350,396; Aug. 24; v. 277; p. 612.
Van Volkenburg, Lester R., assignor to Avery Company, Peoria, Ill. Tool for refacing valve-seats. No. 1,350,901; Aug. 24; v. 277; p. 709.
Van Wijk, Pieter G., Geldermalsen, Netherlands. Electromagnetic overload cut-out magnet. No. 1,350,902; Aug. 24; v. 277; p. 709.
Vasselli, Anthony. (See Catucci, P., and Vasselli.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Tone-arm for talking-machines. No. 1,350,753; Aug. 24; v. 277; p. 682.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Banks of the City of New York, trustee. Spring-retainer. No. 1,350,754; Aug. 24; v. 277; p. 683.
Vickers Limited. (See Buckham, G. T., and Dawson, assignors.)
Victor Talking Machine Company. (See Brown, H. C. and John, assignors.)
Victor Talking Machine Company. (See Burton, Isaac F., assignor.)
Victor Talking Machine Company. (See Diehl, Albert C., assignor.)
Vincent, Edith L., administratrix. (See Vincent, Joseph E.)
Vincent, Joseph E., deceased, assignor of one-half to M. Movsessian, Cambridge, Mass.; E. L. Vincent, administratrix. Washer-counter. No. 1,350,755; Aug. 24; v. 277; p. 683.
Vrooman, James H. E., *et al.* (See Mowatt, Alexander, assignor.)
Wachter, John A., Chicago, Ill. Automatic seal-closure for boxes. No. 1,350,397; Aug. 24; v. 277; p. 612.
Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)
Wait, Justin F., Buffalo, N. Y. Treating filtration-membranes. No. 1,350,532; Aug. 24; v. 277; p. 640.
Wahl, Arnold S., Wheaton, assignor to The Arnold Wahl Institute, Chicago, Ill. Food compound and preparing same. No. 1,350,756; Aug. 24; v. 277; p. 683.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,350,398; Aug. 24; v. 277; p. 613.
Walker, Freman H., Boswell, Okla. Brickmaking-machine. No. 1,350,628; Aug. 24; v. 277; p. 658.
Wallingsford, William R., Tinsman, Ark. Folding carstep. No. 1,350,903; Aug. 24; v. 277; p. 710.
Walter, Ralph W., Mazomanie, Wis. Cow-stanchion. No. 1,350,480; Aug. 24; v. 277; p. 629.
Walters, John F., Battle Creek, Mich. Pipe-flanging tool. No. 1,350,904; Aug. 24; v. 277; p. 710.
Walther, Adolph F., Cleveland, Ohio. Sound-insulating support. No. 1,350,349; Aug. 24; v. 277; p. 602.
Ward, Jabez G. C., *et al.*, executors. (See Stoute, Richard A.)
Waream, Charles E. (See Braley, C. L., and Waream.)
Warner, Burt M., Chicago, Ill. Door-operating mechanism. No. 1,350,688; Aug. 24; v. 277; p. 670.
Warr, Harold G., Park Ridge, assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,350,689; Aug. 24; v. 277; p. 670.
Watrous, Agnes B., executrix. (See Watrous, Edward L.)
Watrous, Edward L., deceased, El Paso, Tex.; A. B. Watrous, executrix, Evanston, Ill. Coating apparatus and method. No. 1,350,481; Aug. 24; v. 277; p. 630.
Watson, Edward A., Greenville, S. C. Spinning apparatus. No. 1,350,905; Aug. 24; v. 277; p. 710.
Watson Wagon Company. (See Keesler, Clyde C., assignor.)
Weber, Charles, Newark, N. J. Article of manufacture and making same. No. 1,350,533; Aug. 24; v. 277; p. 640.
Weber, Franz W., Woodville, Ohio. Hydrator for lime. No. 1,350,534; Aug. 24; v. 277; p. 640.
Weinhardt, Robert A., assignor to Continental Motors Corporation, Detroit, Mich. Connecting-rod. No. 1,350,580; Apr. 24; v. 277; p. 649.
Weisenborn, G. P. A. (See Brauer, August, assignor.)
Wellman, Charles A., assignor to Wellman-Muter Corporation, Chicago, Ill. Spark-plug. No. 1,350,757; Aug. 24; v. 277; p. 683.
Wellman-Muter Corporation. (See Wellman, Charles A., assignor.)
Wells, Frank E. (See Wells, Willet C. and F. E.)
Wells, Willet C. and F. E., Columbus, Ohio. Expressing wax from petroleum distillates. No. 1,350,482; Aug. 24; v. 277; p. 630.
Welsbach Company. (See Blumrick, George, assignor.)
Welsh, William H., Collingswood, N. J. Case for matrix-carriers. No. 1,350,758; Aug. 24; v. 277; p. 683.
West Virginia Pulp & Paper Company. (See Ten Broeck, F. G., and Weston, assignors.)
Western Electric Company. (See Van der Bijl, Hendrik J., assignor.)
Westlake Machine Company, The. (See Kadow, August, assignor.)
Weston, Milton T. (See Ten Broeck, F. G., and Weston.)
Westwood, Coral N., Victoria, British Columbia, Canada. Course-finder. No. 1,350,581; Aug. 24; v. 277; p. 650.
Wheeler, E. L., *et al.* (See Mapson, Robert L., assignor.)
Whitaker, Fletcher A., Stockton, Calif. Method and apparatus for trimming irrigation and drainage ditches. No. 1,351,014; Aug. 24; v. 277; p. 731.
Whitaker, Harold, Lightcliffe, near Halifax, assignor to Bradford Dyers' Association, Limited, Bradford, England. Apparatus for singeing fabrics. No. 1,350,582; Aug. 24; v. 277; p. 650.
White, Otis. (See Bard, J. W., and White.)
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. (Reissue.) No. 14,938; Aug. 24; v. 277; p. 733.
Whiting Foundry Equipment Company. (See Davis, Elmer A., assignor.)
Widhelm, Margaret V., Fremont, Nebr. Hog-waterer. No. 1,350,629; Aug. 24; v. 277; p. 658.
Wilbur, Merritt D., Rochester, F. P. Cannon, Syracuse, and T. J. Murphy, Rochester, N. Y. Carbonizing articles and apparatus for same. No. 1,350,483; Aug. 24; v. 277; p. 630.
Wilcox, Charles M., assignor of one-half to C. H. Harris, New Paris, Ohio. Steam production. No. 1,350,350; Aug. 24; v. 277; p. 603.
Wild, Arnold, Danielson, Conn., assignor to Draper Corporation, Hopedale, Mass. Tension device for shuttles. No. 1,350,630; Aug. 24; v. 277; p. 659.
Wilkens, Jacob K., Muscatine, Iowa. Rectal tube. No. 1,350,981; Aug. 24; v. 277; p. 725.
Willey, Isaac F., Philadelphia, Pa. Ironing collars. No. 1,350,583; Aug. 24; v. 277; p. 650.
Williams, Anthony F., assignor to North East Electric Company, Rochester, N. Y. Circuit-controller. No. 1,350,759; Aug. 24; v. 277; p. 683.
Williams, Charles R., Omaha, Nebr. Hat-ventilator. No. 1,350,535; Aug. 24; v. 277; p. 640.
Williams, H. B. (See Dyer, Robert J., assignor.)
Williams, Joseph S., Riverton, N. J. Waterway reinforced concrete construction and constructing same. No. 1,350,690; Aug. 24; v. 277; p. 670.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Sliding base for grinders. No. 1,350,691; Aug. 24; v. 277; p. 670.

Williams Patent Crusher & Pulverizer Co. (See Williams, Milton F., assignor.)
Williams, Richard J., assignor of one-half to P. Grassi, San Francisco, Cal. Sash-balance. No. 1,350,584; Aug. 24; v. 277; p. 650.
Wilson, George A. (See Pickup, John H., assignor.)
Wilson, Lydell L., Randolph, N. Y. Building reinforced railway-beds. No. 1,350,760; Aug. 24; v. 277; p. 684.
Wilson, William E., Mason City, Iowa. Wall construction. No. 1,350,399; Aug. 24; v. 277; p. 613.
Winston, Gilmer, Memphis, Tenn. Film-developing tank. No. 1,350,761; Aug. 24; v. 277; p. 684.
Wirth, Jonn, New York, N. Y. Soap-holder. No. 1,350,585; Aug. 24; v. 277; p. 650.
Wohlpart, August J. (See Onderdonk, L., and Wohlpart.)
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine. No. 1,350,762; Aug. 24; v. 277; p. 684.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Indicator for Phonograph-reproducers. No. 1,350,763; Aug. 24; v. 277; p. 684.
Wolters, Carl F. (See Dick, R. H., Wolters, and Sutter.)
Wood, Frank W., Indianapolis, Ind., assignor to The Danville Brick Company, Danville, Ill. Paving-brick and making same. No. 1,350,764; Aug. 24; v. 277; p. 684.
Woodley, Oscar L., *et al.* (See Holmes, Anderson M., assignor.)
Woodrow, Oliver B., Newton, Iowa. Wringer-control mechanism. No. 1,350,692; Aug. 24; v. 277; p. 670.
Woolf, Frank A., Wichita, Kan. Wheel-cultivator. No. 1,350,906; Aug. 24; v. 277; p. 710.
Worthington, Henry R. (See Berrigan, John J., assignor.)
Worthington Pump and Machinery Corporation. (See McBride, Thomas C., assignor.)
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Underreamer. No. 1,350,765; Aug. 24; v. 277; p. 765.
Wright, Joseph L., assignor to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,350,536; Aug. 24; v. 277; p. 640.
Wright Roller Bearing Company. (See Miller, Alfred H., assignor.)
Wybert, Ernst. (See Hartmann, M., and Wybert.)
Xardell, Charles A., Utica, N. Y. Electric heater. No. 1,350,586; Aug. 24; v. 277; p. 651.
Xardell, Charles A., Utica, N. Y. Electric heater. No. 1,350,631; Aug. 24; v. 277; p. 659.
Yale & Towne Manufacturing Company, The. (See Crouch, Thomas E., assignor.)
Yanai, Teizo, assignor to N. D. K. K. Kaisha, Tokyo, Japan. Method for forming conducting-seals for incandescent-lamp bulbs or the like. No. 1,350,907; Aug. 24; v. 277; p. 710.
Yeomans, Oreta L., Kis-Lyn, Pa. Bracket. No. 1,350,400; Aug. 24; v. 277; p. 613.
York, Henry J., San Francisco, Calif. Holder for containers. No. 1,350,908; Aug. 24; v. 277; p. 711.
Zeidler, Ernest, Marshfield, Wis. Cheese-box. No. 1,350,909; Aug. 24; v. 277; p. 711.
Zircon Tool & Alloy Corporation. (See Cooper, Hugh S., assignor.)
Zoch, Stefan, Munising, Mich. Baby-walker. No. 1,350,401; Aug. 24; v. 277; p. 613.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Allard, Maurice L. A. A., Akron, assignor to W. H. Millikan, Cleveland, Ohio. Tire-tread. No. 56,113; Aug. 24; v. 277; p. 733.
Aronson, Louis Y., Newark, N. J. Kazoo. No. 56,114; Aug. 24; v. 277; p. 733.
Berkey, Charles A., Highland Park, Mich. Badge, button, or emblem. No. 56,115; Aug. 24; v. 277; p. 734.
Berry, Louis J., and H. Smith, Yale, Okla. Key-ring. No. 56,116; Aug. 24; v. 277; p. 734.
Blanck & Company. (See Kümalehto, Thyra O., assignor.)
Bristol, George W., assignor of one-half to N. G. Jensen, Syracuse, N. Y. Phonograph-cabinet. No. 56,117; Aug. 24; v. 277; p. 734.
Buffalo Dental Manufacturing Company. (See Lewis, Theodore G., assignor.)
Chance, Albert B., Centralia, Mo. Anchor-rod. No. 56,118; Aug. 24; v. 277; p. 734.
Charles William Stores. (See Ehrlicher, Victor, assignor.)
Charles William Stores, The. (See Holbrook, Rufus H., assignor.)
Crisenberry, Benjamin F., Indianapolis, Ind. Food-masher. No. 56,119; Aug. 24; v. 277; p. 734.
De Sibour, Jules H., Washington, D. C. Hatband. No. 56,120; Aug. 24; v. 277; p. 734.
Donaldson, Albert S. (See Schultz, Raymond A., assignor.)
Dreyfach, Max D., New York, N. Y. Article of manufacture—namely, a pillow-top or article of similar nature. No. 56,121; Aug. 24; v. 277; p. 735.
Ehrlicher, Victor, assignor to Charles William Stores, Inc., Brooklyn, N. Y. Tire. No. 56,122; Aug. 24; v. 277; p. 735.
Fabys, Joseph, & Company. (See Harman, Charles W., assignor.)
Findlay, Robert, Manufacturing Company. (See Kostszewski, Stephen, assignor.)
Forbes, Walter D., Oakland, Calif. Swimming-cap. No. 56,123; Aug. 24; v. 277; p. 735.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric candlestick. No. 56,124; Aug. 24; v. 277; p. 735.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric candelabrum. No. 56,125; Aug. 24; v. 277; p. 735.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric floor-lamp. No. 56,126; Aug. 24; v. 277; p. 736.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric bridge-lamp. Nos. 56,127–8; Aug. 24; v. 277; p. 736.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric table-lamp. No. 56,129; Aug. 24; v. 277; p. 736.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric chandelier. No. 56,130; Aug. 24; v. 277; p. 737.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric wall-bracket. Nos. 56,131–2; Aug. 24; v. 277; p. 737.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric chandelier. No. 56,133; Aug. 24; v. 277; p. 737.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric ceiling-fixture. No. 56,134; Aug. 24; v. 277; p. 737.
Gellinger, Frederic, Washington, D. C. Automobile-lock. No. 56,135; Aug. 24; v. 277; p. 737.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy-vehicle wheel. No. 56,136; Aug. 24; v. 277; p. 738.
Gleason, Homer E., Seattle, Wash. Lighting-fixture. No. 56,137; Aug. 24; v. 277; p. 738.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming for an automobile-light or similar article of manufacture. Nos. 56,138–9; Aug. 24; v. 277; p. 738.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle for an automobile-door lock or similar article of manufacture. Nos. 56,140–1; Aug. 24; v. 277; pp. 738–9.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming-plate for an automobile-door lock or similar article of manufacture. No. 56,142; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Plate for an electric switch or similar article of manufacture. No. 56,143; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle construction for an automobile-window regulator or similar article of manufacture. No. 56,144; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle for an automobile-door lock or similar article of manufacture. No. 56,145; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming for an automobile domelight or similar article of manufacture. No. 56,146; Aug. 24; v. 277; p. 740.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Plate for an electric switch or similar article of manufacture. No. 56,147; Aug. 24; v. 277; p. 740.
Greene, Frederick E., assignor to The Mount Vernon Company Silversmiths Inc., Mount Vernon, N. Y. Handle construction for an automobile-window regulator or similar article of manufacture. No. 56,148; Aug. 24; v. 277; p. 740.
Gruelle, John B., Norwalk, Conn. Doll. No. 56,149; Aug. 24; v. 277; p. 740.
Guerin, Joseph, Chicago, Ill. Game-board. No. 56,150; Aug. 24, v. 277; p. 740.
Guinzburg, Victor assignor to I. B. Kleinert Rubber Company, New York, N. Y. Belt. No. 56,151; Aug. 24; v. 277; p. 741.
Hall, Peter, Pasadena, Calif. Box. No. 56,152; Aug. 24; v. 277; p. 741.

Harman, Charles W., New Rochelle, assignor to Joseph Fahys & Company, New York, N. Y. Handle for spoons, forks, or the like. No. 56,153; Aug. 24; v. 277; p. 741.
Harraden, Amos F. B., Mount Vernon, N. Y. Lighting-fixture. No. 56,154; Aug. 24; v. 277; p. 741.
Hazelton Brothers. (See Plaisted, William M., assignor.)
Heilbrun, Monroe E., New York, N. Y. Emblem, badge, button, or similar article. No. 56,155; Aug. 24; v. 277; p. 741.
Henry, Orloff, New Orleans, La., assignor to The Pi Kappa Alpha Fraternity, Atlanta, Ga. Fraternity pin or badge. No. 56,156; Aug. 24; v. 277; p. 741.
Hickey, Henry J., and W. E. McMullan, Fort Dodge, Iowa. Street-direction and advertising device. No. 56,157; Aug. 24. v. 277; p. 742.
Holbrook, Rufus H., assignor to The Charles William Stores, Inc., Brooklyn, N. Y. Tire. No. 56,158; Aug. 24; v. 277; p. 742.
Hollister, Julia M., Des Moines, Iowa. Toy chair. No. 56,159; Aug. 24; v. 277; p. 742.
Hollister, Julia M., Des Moines, Iowa. Toy bed. No. 56,160; Aug. 24; v. 277; p. 742.
Hollister, Julia M., Des Moines, Iowa. Animal toy. No. 56,161; Aug. 24; v. 277; p. 742.
Holloway, Harry A., assignor to The King Manufacturing Company, St. Joseph, Mo. Lamp-fixture. Nos. 56,162–3; Aug. 24; v. 277; p. 743.
Horn & Brannen Manufacturing Co. (See Frerichs, Frederick A., assignor.)
Inflexible Company, The. (See Schwarber, Henry, assignor.)
Jacobi, William J., Washington, D. C. Statuette. No. 56,164; Aug. 24; v. 277; p. 743.
Jensen, Nils G. (See Bristol, George W.)
Jewell, John, Duluth, Minn. Advertising-cabinet. No. 56,165; Aug. 24. v. 277; p. 743.
Jones, Edward H., Snaresbrook, England. Statuette. Nos. 56,166–7; Aug. 24; v. 277; p. 743.
Jones, Palmer J., and P. D. Schreiber, Port Washington, N. Y. Desk. No. 56,168; Aug. 24; v. 277; p. 744.
Jones, Palmer J., and P. D. Schreiber, Port Washington, N. Y. Seat. No. 56,169; Aug. 24; v. 277; p. 744.
Jones, Palmer J., and P. D. Schreiber, Port Washington, N. Y. Combined desk and seat. No. 56,170; Aug. 24; v. 277; p. 744.
Juthe, Stanley N., Newton, and S. H. Lang, Cambridge, Mass. Aerial toy. No. 56,171; Aug. 24; v. 277; p. 744.
Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 56,172; Aug. 24; v. 277; p. 744.
King Manufacturing Company, The. (See Holloway, Harry A., assignor.)
Kleinert, I. B., Rubber Company. (See Guinzburg, Victor, assignor.)
Klotz, Zygmunt, Ralphton, Pa. Picture-frame. No. 56,173. Aug. 24; v. 277; p. 745.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Spindle for lighting-fixtures. No. 56,174; Aug. 24; v. 277; p. 745.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 56,175; Aug. 24; v. 277; p. 745.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Bracket-back for lighting-fixtures. No. 56,176; Aug. 24; v. 277; p. 745.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 56,177–9; Aug. 24; v. 277; p. 745.
Kümalehto, Thyra O., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 56,180; Aug. 24; v. 277; p. 746.
Lang, Sidney H. (See Juthe, S. N. and Lang.)
Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Dental-cotton holder. No. 56,181; Aug. 24; v. 277; p. 746.
Lloyd, Marshall B., Menominee, Mich. Table or similar article. Nos. 56,182–3; Aug. 24; v. 277; p. 746.
McMullan, Warner E. (See Hickey, Henry J.)
Millikan, W. H. (See Allard, Maurice L. H. A., assignor.)
Mitchell, Samuel, New York, N. Y. Ring. No. 56,184; Aug. 24; v. 277; p. 746.
Monteleone, Ernest, Jersey City, N. J. Toy aeroplane. No. 56,185; Aug. 24; v. 277; p. 747.
Mount Vernon Company, Silversmiths, The. (See Greene, Frederick E., assignor.)
Nelson, Einar J., Tacoma, Wash. Barber's combination work-table. No. 56,186; Aug. 24; v. 277; p. 747.
Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 56,187; Aug. 24; v. 277; p. 747.
Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 56,188; Aug. 24; v. 277; p. 747.
Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 35,189; Aug. 24; v. 277; p. 747.
Peruggi, Ernesto, New York, N. Y. Doll. No. 56,190; Aug. 24; v. 277; p. 747.
Peruggi, Ernesto, New York, N. Y. Doll. No. 56,191; Aug. 24; v. 277; p. 748.
Pi Kappa Alpha Fraternity, The. (See Henry, Orloff, assignor.)
Plaisted, William M., Larchmont Manor, assignor to Hazelton Brothers, New York, N. Y. Piano-case. No. 56,192; Aug. 24; v. 277; p. 748.
Rapattoni, Ernest, Los Angeles, Calif. Automobile traffic-signal. No. 56,193; Aug. 24; v. 277; p. 748.
Reybet, Georges, Jersey City, N. J. Textile fabric for decorative purposes. Nos. 56,194–5; Aug. 24; v. 277; p. 748.
Schreiber, Paul D. (See Jones, P. J., and Schreiber.)
Schuler, William A., New York, N. Y. Clutch. No. 56,196; Aug. 24; v. 277; p. 748.
Schultz, Raymond A., Rochester, assignor of one-half to A. S. Donaldson, Watertown, N. Y. Pole-holder. No. 56,197; Aug. 24; v. 277; p. 749.
Schwarber, Henry, Weehawken, assignor to The Inflexible Co., West New York, N. J. Embroidered lace-collar. Nos. 56,198–9; Aug. 24; v. 277; p. 749.
Scott, Ephriam J., East Providence, R. I. Game-board. No. 56,200; Aug. 24; v. 277; p. 749.
Silver, Hyman, Brooklyn, N. Y. Buffet or similar article. No. 56,201; Aug. 24; v. 277; p. 749.
Smith, Harley. (See Berry, Louis J.)
Smyth, Milton J., Philadelphia, Pa. Service picture-mat. No. 56,202; Aug. 24; v. 277; p. 749.
Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
Stafford, Lewis F., Chicago, Ill. Automobile-bumper. No. 56,203; Aug. 24; v. 277; p. 749.
Strain, John H., Boston, Mass. Foot-propelled child's car. No. 56,204; Aug. 24; v. 277; p. 750.
Strong, Margaret L., Washington, D. C. Ornament for a picture-frame or the like. Nos. 56,205–6; Aug. 24; v. 277; p. 750.
Susquehanna Silk Mills. (See Katz, Clara, assignor.)
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Susquehanna Silk Mills. (See Orcutt, Leon F., assignor.)
Wuyckhuyse, John, Rochester, N. Y. Child's vehicle. No. 56,207; Aug. 24; v. 277; p. 750.
Virgile, Gabriel J., New York, N. Y. Textile fabric for decorative purposes. Nos. 56,208–9; Aug. 24; v. 277; p. 750.
Vivaudou, Victor, New York, N. Y. Container. Nos. 56,210–11; Aug. 24; v. 277; p. 751.
Ward, Artemas, Jr., Detroit, Mich. Instrument-board for automobiles. No. 56,212; Aug. 24; v. 277; p. 751.
Waugh, Coulton, New York, N. Y. Textile fabric for decorative purposes. No. 56,213; Aug. 24; v. 277; p. 751.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Phonograph-cabinet. No. 56,214; Aug. 24; v. 277; p. 751.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Alaska Salmon Co., San Francisco, Calif. Canned, salted, and pickled fish. No. 134,208; Aug. 24; v. 277; p. 777.
American "E" Products Company, Minneapolis, Minn. Soups. Nos. 134,209–10; Aug. 24; v. 277; p. 777.
Andersen, A. O., & Co., Portland, Oreg. Unsweetened evaporated milk. No. 134,211; Aug. 24; v. 277; p. 777.
Arctic Cream Co., Fremont, Nebr. Ice-cream, fancy chocolates, and creamery-butter. No. 134,213; Aug. 24; v. 277; p. 777.
Armour Fertilizer Works, Chicago, Ill. Fertilizers. No. 134,212; Aug. 24; v. 277; p. 777.
Atchison Mills Corporation, The, Atchison, Kans. Wheat-flour. No. 134,214; Aug. 24; v. 277; p. 777.
Automatic Appliance Company, The, St. Louis, Mo. Machines for timing and controlling the period of operation of laundry-machines and signaling the end of operation thereof. Nos. 134,215–16; Aug. 24; v. 277; p. 777.
Barna, Peter, New York, N. Y. Canned mackerel. No. 134,217; Aug. 24; v. 277; p. 777.
Bay City Milling Company, Bay City, Mich. Wheat-flour and buckwheat-flour. No. 134,218; Aug. 24; v. 277; p. 777.
Becker, Geo. H., Baltimore, Md. Potato chips, doughnuts, zwieback. No. 134,219; Aug. 24; v. 277; p. 777.
Bixby, S. M., & Co., Inc., Brooklyn, N. Y. Composition in solid, liquid, or paste form for the treatment of white shoes. No. 134,302; Aug. 24; v. 277; p. 781.
Bixby, S. M., & Co., Inc., Brooklyn, N. Y. Shoe-polishes. No. 134,303; Aug. 24; v. 277; p. 781.
Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics of all kinds in the piece. No. 134,304; Aug. 24; v. 277; p. 781.
Bowles, Lynn L., Franconia, N. H. Maple-sugar. No. 134,220; Aug. 24; v. 277; p. 777.
Bray Pictures Corporation, The, New York, N. Y. Moving-picture films. No. 134,221; Aug. 24; v. 277; p. 777.
Brinker, Frederick F., Peoria, Ill. Canned adhesive rubber. No. 134,222; Aug. 24; v. 277; p. 777.

Browne, Geo. C., Elmira, N. Y. Salted peanuts, peanut-butter, coffee, tea, cocoa. No. 134,223; Aug. 24; v. 277; p. 777.
Burgan, Robert J., New York, N. Y. Paper patterns for making men's clothes. No. 134,224; Aug. 24; v. 277; p. 777.
Candy Products Corporation, Chicago, Ill. Confectionery. No. 134,225; Aug. 24; v. 277; p. 777.
Chase & Sanborn, Boston, Mass. Tea. No. 134,226; Aug. 24; v. 277; p. 777.
Cheney Brothers, South Manchester, Conn. Woven, knitted, &c., fabrics in the piece. Nos. 134,305–8; Aug. 24; v. 277; p. 781.
City Mills Company, Columbus, Ga. Wheat-flour and self-rising wheat-flour. Nos. 134,227–8; Aug. 24; v. 277; p. 777.
Colorado Milling & Elevator Co., The, Denver, Colo. Wheat-flour. No. 134,229; Aug. 24; v. 277; p. 777.
Columbian Enameling & Stamping Co., Terre Haute, Ind. Enamel ware. No. 134,309; Aug. 24; v. 277; p. 781.
Corkran, Hill & Co. Inc., Baltimore, Md. Hams. No. 134,310; Aug. 24; v. 277; p. 782.
Corning Glass Works, Corning, N. Y. Glass. No. 134,311; Aug. 24; v. 277; p. 782.
Cosby, W. M., Flour & Grain Co., Birmingham, Ala. Corn-meal. No. 134,230; May 2; v. 277; p. 777.
Cramer, G., Dry Plate Company, St. Louis, Mo. Photographic dry-plates and films. No. 134,312; Aug. 24; v. 277; p. 782.
De Forest Radio Telephone and Telegraph Company, New York, N. Y. Wireless telegraph and telephone apparatus. Nos. 134,313–14; Aug. 24; v. 277; p. 782.
Detroit Creamery Company, Detroit, Mich. Ice-cream. No. 134,231; Aug. 24; v. 277; p. 777.
Dixie Fruit Products Corporation, New York, N. Y. Vinegar. No. 134,232; Aug. 24; v. 277; p. 777.
Donmeyer, Gardner Co., Peoria, Ill. Wheat-flour. Nos. 134,233–4; Aug. 24; v. 277; p. 777.
Draper Corporation, Hopedale, Mass. Looms and parts thereof. No. 134,315; Aug. 24; v. 277; p. 782.
Feigel, M., & Bro. Inc., New York, N. Y. Glue. No. 134,235; Aug. 24; v. 277; p. 777.
Fox River Paper Company, Appleton, Wis. Writing-paper. No. 134,316; Aug. 24; v. 277; p. 782.
Freden, Alfred L., Brooklyn, N. Y. Bouillon-cubes. No. 134,236; Aug. 24; v. 277; p. 777.
Furman, Robert T., New York, N. Y. Library-paste, mucilage. No. 134,237; Aug. 24; v. 277; p. 778.
Gambrill Grain Products Company, The, Baltimore, Md. Barley malt-flour. No. 134,238; Aug. 24; v. 277; p. 778.
Glidden Nut Butter Company, The, Chicago, Ill. Oleomargarin. Nos. 134,239–40; Aug. 24; v. 277; p. 778.
Gillette Safety Razor Company, Boston, Mass. Safety-razors and safety-razor blades. No. 134,317; Aug. 24; v. 277; p. 782.
Globe Canning Company, Eastport, Me. Canned sardines. Nos. 124,241–3; Aug. 24; v. 277; p. 778.
Gray, Judah P., Nampa and Emmett, Idaho. Fresh apples. No. 134,244; Aug. 24; v. 277; p. 778.
Hogue, Charles L., Oakland, Calif. Eyeglasses. No. 134,245; Aug. 24; v. 277; p. 778.
Hormel Milling Company, Austin, Minn. Wheat-flour. No. 134,246; Aug. 24; v. 277; p. 778.
Howell, W. H. Company, The, Geneva, Ill. Fire-pumps. No. 134,318; Aug. 24; v. 277; p. 782.
Johnson, Robert A., Company, Milwaukee, Wis. Candy. No. 134,247; Aug. 24; v. 277; p. 778.
Jones, Harry A., Baltimore, Md. Tea. No. 134,248; Aug. 24; v. 277; p. 778.
Jones & Pettigrew, San Francisco, Calif. Fresh fruits. No. 134,249; Aug. 24; v. 277; p. 778.
Kickbusch, A., Grocery Co., Wausau, Wis. Canned goods, &c. No. 134,250; Aug. 24; v. 277; p. 778.
Lersch, Verne D., Wellington, Ohio. Breakfast foods. No. 134,251; Aug. 24; v. 277; p. 778.
Lever Brothers Company, Cambridge, Mass. Cooking compound comprising oils and hydrogenated oils. No. 134,252; Aug. 24; v. 277; p. 778.
McCormick & Co., Baltimore, Md. Insect-powders. No. 134,319; Aug. 24; v. 277; p. 782.
McIntyre-Burrall Company, Green Bay, Wis. Harness and shoe leather. No. 134,320; Aug. 24; v. 277; p. 783.
Maggioni, L. P., & Company, Savannah, Ga. Fresh oysters, canned or otherwise put up. Nos. 134,253–4; Aug. 24; v. 277; p. 778.
Mason, Davis & Company, Chicago, Ill. Weighing-scales. No. 134,255; Aug. 24; v. 277; p. 778.
Measuregraph Company, The, St. Louis, Mo. Fabric-measuring and cost-computing machines. No. 134,256; Aug. 24; v. 277; p. 778.
Munn, R. J., & Bros., Boston, Mass. Artificial flowers. No. 134,321; Aug. 24; v. 277; p. 783.
Mutual Creamery Company, Salt Lake City, Utah. Eggs subjected to a preservative process. No. 134,257; Aug. 24; v. 277; p. 778.
National Cash Register Company, The, Dayton, Ohio. Machines for printing, issuing, recording, and registering tickets, and their parts. No. 134,258; Aug. 24; v. 277; p. 778.
O'Brien, Frank B., Chicago, Ill. Cementitious preparation usable in the form of a putty. No. 134,259; Aug. 24; v. 277; p. 778.
Odelsa Mfg. Co., The, Oklahoma, Okla. Foods. No. 134,260; Aug. 24; v. 277; p. 778.
Palmine Company, Inc., Dobbs Ferry and New York, N. Y. Oleomargarin. No. 134,261; Aug. 24; v. 277; p. 778.
Patent Cereals Company, The, Geneva and New York, N. Y. Corn-flour. No. 134,262; Aug. 24; v. 277; p. 778.
Paxton & Gallagher Co., Omaha, Nebr. Canned fish. No. 134,263; Aug. 24; v. 277; p. 778.
Pendleton, Homer R., Tulsa, Okla. Adhesive compound for mending automobile-radiators, gasolene-tanks, &c. No. 134,264; Aug. 24; v. 277; p. 778.
Pitometer Company, The, New York, N. Y. Instruments for indicating, measuring, and recording the velocity of flowing streams. No. 134,265; Aug. 24; v. 277; p. 778.
Pollodoro Restaurant Co., Inc., New York, N. Y. Cold meats. No. 134,266; Aug. 24; v. 277; p. 778.
Postum Cereal Company, Inc., Wilmington, Del., and Battle Creek, Mich. Corn-flour, hominy, grits, meal. No. 134,267; Aug. 24; v. 277; p. 778.
Powers, Lucius, Fresno, Calif. Citrus and fresh fruits. No. 134,268; Aug. 24; v. 277; p. 778.
Puyallup & Sumner Fruit Growers Canning Co., Puyallup, Wash. Canned and crushed fruits, fruit preserves, and jams. No. 134,269; Aug. 24; v. 277; p. 778.
Redel Candy Corporation, The, Milwaukee, Wis. Candy. Nos. 134,270–3; Aug. 24; v. 277; p. 779.
Reo Motor Car Company, Lansing, Mich. Light motor-trucks. No. 134,322; Aug. 24; v. 277; p. 783.
Rivoli Silk Hosiery Co. New York, N. Y. Hosiery and underwear. No. 134,323; Aug. 24; v. 277; p. 783.
Sprochnle, Albert W., Chicago, Ill. Watches. No. 134,324; Aug. 24; v. 277; p. 783.
Stowell Gribble Chemical Company, Savannah, Ga. Wax automobile-polish. No. 134,325; Aug. 24; v. 277; p. 783.
Sullivan Machinery Company, Boston, Mass. Machinery. No. 134,326; Aug. 24; v. 277; p. 783.
Tiffany Never Wind Clock Corporation, Buffalo, N. Y. Electric clocks and parts thereof. No. 134,327; Aug. 24; v. 277; p. 783.
Torres y Ribelles, Seville, Spain. Olive-oil and other edible oils. No. 134,274; Aug. 24; v. 277; p. 779.
Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. Nos. 134,275–7; Aug. 24; v. 277; p. 779.
Russell & Company, Incorporated, Cambridge, Mass. Candy. No. 134,278; Aug. 24; v. 277; p. 779.
San Jose Canning Co., San Jose, Calif. Canned vegetables and fruits. Nos. 134,279–80; Aug. 24; v. 277; p. 779.
Sessions, William, York, England. Envelop-sealing slips and adhesive paper seals. No. 134,281; Aug. 24; v. 277; p. 779.
Simlec Film Company, Pittsburgh, Pa. Motion-picture films. No. 134,282; Aug. 24; v. 277; p. 779.
St. Albans Grain Company, St. Albans, Vt. Stock feed. No. 134,283; Aug. 24; v. 277; p. 779.
St. Albans Grain Company, St. Albans, Vt. Dairy feed. No. 134,284; Aug. 24; v. 277; p. 779.
Suchard, S. A., Serrieres, Switzerland. Chocolate. No. 134,285; Aug. 24; v. 277; p. 779.
Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour, cornmeal, and rolled oats. No. 134,286; Aug. 24; v. 277; p. 779.
Thacker, D. W., Springfield, Ohio. Coffee. No. 134,287; Aug. 24; v. 277; p. 779.
Thompson, John R., Co., Chicago, Ill. Crab-apple jelly, plum jam, canned corn, catsup, &c. No. 134,288; Aug. 24; v. 277; p. 779.
Tiffany & Company, New York, N. Y. Measuring and scientific appliances. Nos. 134,289–90; Aug. 24; v. 277; p. 779.
Tilley, B. F., Jr., Mrs., Jamestown, R. I. Candies, glacé nuts, barley toys. No. 134,291; Aug. 24; v. 277; p. 779.
Wallace & Co., Brooklyn, N. Y. Chocolates and candies. Nos. 134,328–9; Aug. 24; v. 277; pp. 783–4.
Ward Baking Company, New York, N. Y. Bread. No. 134,292; Aug. 24; v. 277; p. 779.
Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour. Nos. 134,293–7; Aug. 24; v. 277; p. 779.
Westmoreland Candy Co., Inc., Richmond, Va. Candy. No. 134,298; Aug. 24; v. 277; p. 779.
Wilson, Clarence, Dinuba, Calif. Fresh fruits. No. 134,299; Aug. 24; v. 277; p. 779.
Wood, John, Mfg. Co., Conshohocken, Pa. Range-boilers, expansion-tanks, &c. No. 134,330; Aug. 24; v. 277; p. 784.
Woolley, Daniel P., Great Neck and New York, N. Y. Bread. No. 134,300; Aug. 24; v. 277; p. 779.
Woolson Spice Company, The, Toledo, Ohio. Coffee. No. 134,301; Aug. 24; v. 277; p. 779.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allen Corporation, The, New York, N. Y. "Pronto." (For Fire-Extinguishing Compound.) No. 21,983; Aug. 24; v. 277; p. 785.

American Soap Company, Oakland, Calif. "Jass Hand Wash." (For Hand-Soap or Hand-Wash.) No. 21,984; Aug. 24; v. 277; p. 785.

Baxter Candy Company, The, Grand Junction, Colo. "Prize Dominoes Pop Corn Confection." (For a Pop-Corn Confection.) No. 21,985; Aug. 24; v. 277; p. 785.

Beech-Nut Packing Company, Canajoharie, N. Y. "Peanut Bar." (For Candies—Namely, "Peanut Bars.") No. 21,986; Aug. 24; v. 277; p. 785.

Boston Thread Co., New York, N. Y. "Spicefield." (For Cotton Thread.) No. 21,987; Aug. 24; v. 277; p. 785.

Boston Thread Co., New York, N. Y. "Iris." (For Cotton Thread.) No. 21,988; Aug. 24; v. 277; p. 785.

Boston Thread Co., New York, N. Y. "Neutral." (For Cotton Thread.) No. 21,989; Aug. 24; v. 277; p. 785.

Brachvogel, R. A., Chicago, Ill. "Wild Hy-Ball." (For Non-Intoxicating Beverages.) No. 21,990; Aug. 24; v. 277; p. 785.

Caswell, George W., Co., San Francisco, Calif. "The Caswell Blend." (For Coffee.) No. 21,991; Aug. 24; v. 277; p. 785.

Cherry Tone Medicine Co., Inc., The, Charlotte, N. C. "Cherry Tonic." (For a System-Tonic.) No. 21,993; Aug. 24; v. 277; p. 785.

Clem Lumber Co., Dallas, Tex. "Clem's Pure Paints." (For Ready-Mixed Paints.) No. 21,992; Aug. 24; v. 277; p. 785.

Coffee Products Company, Cleveland, Ohio. "Romar." (For Coffee.) No. 21,994; Aug. 24; v. 277; p. 785.

Elasticap Company, The, Hoboken, N. Y. "Elasticap." (For Splice Insulators for Electric Conductors.) No. 21,995; Aug. 24; v. 277; p. 785.

Evans, H., Waco, Tex. "A Little Goes a Long Way." (For Preparation for Treatment of the Hair.) No. 21,996; Aug. 24; v. 277; p. 785.

Fine & Levy, New York, N. Y. "All-Size-Cap." (For Cloth Caps.) No. 21,997; Aug. 24; v. 277; p. 785.

Fox, Frank M., & Co., Saegerstown, Pa. "Ginger Ale." (For Ginger-Ale.) No. 21,998; Aug. 24; v. 277; p. 785.

Fox, Frank M., & Co., Saegerstown, Pa. "Fox Trot Carbonated Laxative." (For Carbonated Laxative.) No. 21,999; Aug. 24; v. 277; p. 785.

Garden City Oil Co., Chicago, Ill. "Garden City Moto Oils." (For Lubricating Oils.) No. 22,000; Aug. 24; v. 277; p. 785.

Gelles & Weissman, New York, N. Y. "Good Will Cravats." (For Cravats.) No. 22,001; Aug. 24; v. 277; p. 785.

Grain Soaps Corporation, Dover, Del. "Grainо." (For Soaps.) No. 22,002; Aug. 24; v. 277; p. 785.

Graphic Label Works, Chicago, Ill. "Lauritsen's Home Made Butter Scotch." (For Butter-Scotch.) No. 22,003; Aug. 24; v. 277; p. 785.

Grennan Cake Corporation, Chicago, Ill. "Every Bite a Delight." (For Fried Cakes and Cookies.) No. 22,004; Aug. 24; v. 277; p. 785.

Hedges-Buck Company, Stockton, Calif. "Hedges-Buck Co. Brand." (For Black Pepper.) No. 22,005; Aug. 24; v. 277; p. 785.

Heilman, Frederick, Company, Johnstown, Pa. "Man-Heil Automatic Inhaler." (For Inhalers.) No. 22,007; Aug. 24; v. 277; p. 785.

Hess, Edward L., Brooklyn, N. Y. "Pop's Peerless Polish." (For a Polish.) No. 22,006; Aug. 24; v. 277; p. 785.

Hopkins, J. L. & Co., New York, N. Y. "J. L. Hopkins & Co." (For Milled Crude Drugs.) No. 22,008; Aug. 24; v. 277; p. 785.

Johnston, R. F., Paint Company, The, Cincinnati, Ohio. "Leather Lac." (For Preparation for Refinishing Leather Articles.) No. 22,009; Aug. 24; v. 277; p. 785.

Kaffee Haz Corporation, New York, N. Y. "Life Belt." (For Coffee.) No. 22,010; Aug. 24; v. 277; p. 785.

Lacteal Analytical Laboratories, Inc., Buffalo, N. Y. "Oxydene." (For a Disinfectant Sterilizer, Germicide, and Deodorant.) No. 22,011; Aug. 24; v. 277; p. 785.

Leedom, Theodore C., Toledo, Ohio, and Oil City, Pa. "Red Top." (For Evaporated Milk.) No. 22,012; Aug. 24; v. 277; p. 785.

Lion Knitting Mills Co., The, Cleveland, Ohio. "The Ace." (For Caps, Sweaters, and Fancy Knit Goods.) No. 22,013; Aug. 24; v. 277; p. 785.

Malarial Specific Company, Inc., New York, N. Y. "Anti-plasma Label." (For Malarial Medicine.) No. 22,014; Aug. 24; v. 277; p. 785.

Mandabach, Peter A., Chicago, Ill. "American Disinfectant." (For American Disinfectant.) No. 22,015; Aug. 24; v. 277; p. 785.

Milwaukee Macaroni Co., Milwaukee, Wis. "Pagliacci Brand." (For Macaroni.) No. 22,016; Aug. 24; v. 277; p. 785.

Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Chocolate Cherries.) No. 22,017; Aug. 24; v. 277; p. 785.

Milwaukee Paper Box Company, Milwaukee, Wis. "Twentieth Century Chocolates." (For Chocolate Candy.) No. 22,018; Aug. 24; v. 277; p. 785.

Milwaukee Paper Box Company, Milwaukee, Wis. "The Bal Masque." (For Chocolate Candy.) No. 22,019; Aug. 24; v. 277; p. 785.

Milwaukee Paper Box Company, Milwaukee, Wis. "Milk Chocolates." (For Milk-Chocolates.) No. 22,020; Aug. 24; v. 277; p. 785.

Newark Paraffine & Parchment Paper Co., Newark, N. J.; Columbus, Ohio, and New York, N. Y. "Milkmaid Bread." (For Bread.) No. 22,021; Aug. 24; v. 277; p. 785.

Nielsen & Kittle Canning Company, Ltd., East San Pedro, Cal. "Nekco." (For California Kippered Sardines.) No. 22,022; Aug. 24; v. 277; p. 785.

Ocean Paint Works, Inc., Brooklyn, N. Y. "Marine Paints." (For Paints.) No. 22,023; Aug. 24; v. 277; p. 785.

Ocean Paint Works, Inc., Brooklyn, N. Y. "Mermaid Paints." (For Paints.) No. 22,024; Aug. 24; v. 277; p. 785.

Orrison Cigar Co., Inc., The, Bethesda, Ohio. "Orico." (For Cigars.) No. 22,025; Aug. 24; v. 277; p. 785.

Pennsylvania Chocolate Company, Pittsburgh, Pa. "Big '6' Chocolate." (For Vanilla Sweet Chocolate.) No. 22,026; Aug. 24; v. 277; p. 785.

Robertson, J. T., Company, The, Syracuse, N. Y. "Hospital Carbolic Oil Soap." (For Carbolic-Oil Soap.) No. 22,027; Aug. 24; v. 277; p. 785.

Sanna Company, Inc., New York, N. Y. "Lion Brand Fresh Whey Cheese." (For Cheese.) No. 22,028; Aug. 24; v. 277; p. 785.

Seal-Fast Mfg. Co., Indianapolis, Ind. "Seal-Fast." (For Repair-Patches for Automobile-Tubes.) No. 22,029; Aug. 24; v. 277; p. 786.

Smith, E. A., Tifton, Ga. "Smith's Hand-Made Candy." (For Candy.) No. 22,030; Aug. 24; v. 277; p. 786.

Southern Food Products Co., Cincinnati, Ohio. "Bully Boy Cordial Apricot Flavor." (For a Non-Alcoholic Drink.) No. 22,031; Aug. 24; v. 277; p. 786.

Thompson, John R., Co., Chicago, Ill. "Thompson's." (For Pure Food Products.) No. 22,032; Aug. 24; v. 277; p. 786.

University Heights Farms Co., Darby, Mont. "Favorite Brand Apples." (For Apples.) No. 22,033; Aug. 24; v. 277; p. 786.

Victory Canning & Packing Company, Los Angeles, Calif. "Victory Canning & Packing Cos. Barnd." (For Canned Artichokes.) No. 22,034; Aug. 24; v. 277; p. 786.

West, Augustus A., Philadelphia, Pa. "La Belle Hair Net." (For Hair-Nets.) No. 22,035; Aug. 24; v. 277; p. 786.

Wigwam Co. Inc., The Syracuse, N. Y. "Put-Over-All." (For Overalls.) No. 22,036; Aug. 24; v. 277; p. 786.

Wilson, J. G., Corporation, The, Norfolk, Va. "Diffuse-lite." (For Paints.) No. 22,037; Aug. 24; v. 277; p. 786.

Wilson, J. G., Corporation, The, Norfolk, Va. "Painting for Light." (For Paints.) No. 22,038; Aug. 24; v. 277; p. 786.

Wright, James E. M., Portsmouth, Va. "Great Generals." (For Cut Smoking-Tobacco and Cigars.) No. 22,039; Aug. 24; v. 277; p. 786.

Zucker, Leo and Edward, Weinshel, Milwaukee, Wis. "Rite Fit Trousers." (For Men's Trousers.) No. 22,040; Aug. 24; v. 277; p. 786.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Crouse-Hinds Co., Syracuse, N. Y. "You Will Not Regret It—If You Condulet It." (For Condulets.) No. 5,292; Aug. 24; v. 277; p. 786.

Economy Ink Company, The, Cincinnati, Ohio. "Make Your Own Ink." (For a Powdered Ink.) No. 5,293; Aug. 24; v. 277; p. 786.

Fairbank, N. K., Company, The, Chicago, Ill. "Gold Dust—A Real Help at Preserving Time." (For Washing-Powder.) No. 5,294; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Touring Car." (For Automobiles.) No. 5,295; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Brougham." (For Automobiles.) Nos. 5,296–7; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Roadster." (For Automobiles.) No. 5,298; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Coupé." (For Automobiles.) No. 5,299; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Suburban." (For Automobiles.) No. 5,300; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Coupé." (For Automobiles.) No. 5,301; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Touring Car." (For Automobiles.) No. 5,302; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Suburban." (For Automobiles.) No. 5,303; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Roadster." (For Automobiles.) No. 5,304; Aug. 24; v. 277; p. 786.

Kirk, James S., & Company, Chicago, Ill. "Pure as Gold Transparent as Truth." (For Kirk's Jap Rose Soap.) No. 5,305; Aug. 24; v. 277; p. 786.

Lee Hardware Co., The, Salina, Kans. "Winter's Chilly Temperature Does Not Affect Nurex." (For Tabbing Compounds.) No. 5,306; Aug. 24; v. 277; p. 786.

Northwestern Fruit Exchange, New York, N. Y. "Skookum America's Supreme Apples—Who Can Resist Them?" (For Apples.) No. 5,307; Aug. 24; v. 277; p. 786.

Palmolive Company, The, Milwaukee, Wis. "Every Complexion Needs Soap." (For Soap.) No. 5,308; Aug. 24; v. 277; p. 786.

Palmolive Company, The, Milwaukee, Wis. "The Way To Rose Complexions." (For Soap.) No. 5,309; Aug. 24; v. 277; p. 786.

Palmolive Company, The, Milwaukee, Wis. "Re-Incarnation of Beauty." (For Soap.) No. 5,310; Aug. 24; v. 277; p. 786.

Reliance Mfg. Company, Chicago, Ill. "Rely on Reliance." (For Work-Shirts.) No. 5,311; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Nailing the Right Bower Every Time the Deck's Dealt." (For Smoking-Tobacco.) No. 5,312; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Prince Albert the National Christmas Joy Smoke." (For Smoking-Tobacco.) No. 5,313; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You're Wise-o That You've Been Checking Smoke-sport." (For Smoking-Tobacco.) No. 5,314; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Taking Awkward Angles Out of the Early Christmas Morning Atmosphere." (For Smoking-Tobacco.) No 5,315; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Talk About Handing Yourself a Birth-Day-Blow-Out With Bells on." (For Smoking-Tobacco.) No. 5,316; Aug. 24; v. 277; p. 786.

Schoenhofen Company, Chicago, Ill. "Drink Green River the Snappy Lime Drink." (For Non-Alcoholic Beverage—Namely, a Lime Drink.) No. 5,317; Aug. 24; v. 277; p. 786.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

American Pitch Pine Export Company, Wilmington, Del., and New Orleans, La. Finished lumber. No. 134,049; Aug. 24; v. 277; p. 772.
American Spike Company Incorporated, New York, N. Y. Railroad-spikes. No. 130,353; Aug. 24; v. 277; p. 763.
American Trading Co., New York, N. Y. Wheat-flour. No. 134,343; Aug. 24; v. 277; p. 773.
Arnold Brothers, Incorporated, Chicago, Ill. Hams, bacon, sausage, lard, and corn-beef. No. 127,419; Aug. 24; v. 277; p. 759.
Aronson, Louis V., Newark, N. J. Musical toys of the kazoo type. No. 130,943; Aug. 24; v. 277; p. 766.
Au-To Play Goods Company, The, Parkersburg, W. Va. Swings and suspending-hangers. No. 116,435; Aug. 24; v. 277; p. 754.
Ballantine, P., & Sons, Newark, N. J. Malt extracts. Nos. 133,198–9; Aug. 24; v. 277; p. 770.
Beardsley, Calvin L., Rock Island, Ill. Non-intoxicating imitation wine. No. 134,177; Aug. 24; v. 277; p. 773.
Benchley Brothers, Inc., Boston, Mass. Food ingredients, particularly egg substitutes. No. 127,236; Aug. 24; v. 277; p. 759.
Bessire & Company, Indianapolis, Ind., and Louisville, Ky. Churns, cream-mixers, cream-separators, pasteurizers, &c. No. 122,961; Aug. 24; v. 277; p. 757.
Best, A. Starr, Chicago, Ill. Leather shoes for boys. No. 118,824; Aug. 24; v. 277; p. 755.
Beyerle, J. J., Mfg. Co., New York, N. Y. Dress-shields. No. 132,292; Aug. 24; v. 277; p. 769.
Bishop & Company, Los Angeles, Calif. Biscuits. No. 134,455; Aug. 24; v. 277; p. 774.
Bishop, Homer G., Oakland, assignor to Specialty Products Company, San Francisco, Calif. Toy vehicles. No. 123,837; Aug. 24; v. 277; p. 758.
Blaul's, John, Sons Co., Burlington, Iowa. Canned fruits, canned vegetables, canned mackerel, &c. No. 132,161; Aug. 24; v. 277; p. 768.
Bliss Syrup Refining Co., Kansas City, Mo. Table-syrup composed of corn and cane sugar. No. 130,512; Aug. 24; v. 277; p. 764.
Born, L., & Son, Hampton, Va. Ready-mixed paints, varnishes, &c. No. 123,604; Aug. 24; v. 277; p. 757.
Branch, Judson B., Coldwater, Mich. Boys' wash-suits, rompers, &c. No. 111,090; Aug. 24; v. 277; p. 753.
Brandram-Henderson Limited, Montreal, Quebec, Canada. Dry, paste, and mixed paints, &c. No. 131,554; Aug. 24; v. 277; p. 767.
Brown Shoe Company, Inc., St. Louis, Mo. Children's shoes. No. 119,624; Aug. 24; v. 277; p. 755.
Bryant Chucking Grinder Company, Springfield, Vt. Metal-working grinding-machines. No. 128,829; Aug. 24; v. 277; p. 761.
Buckeye Incubator Company, The, Springfield, Ohio. Incubators and brooders for chicks. No. 134,555; Aug. 24; v. 277; p. 774.
Bullard Machine Tool Co., The, Bridgeport, Conn. Cutting-tools for metal-working machines. No. 134,179; Aug. 24; v. 277; p. 773.
Burton, Mary M., Los Angeles, Calif. Frosted nuts. No. 124,467; Aug. 24; v. 277; p. 758.
California Co-Operative Canneries, San Jose, Calif. Canned fruits and vegetables. No. 131,776; Aug. 24; v. 277; p. 767.
California Packing Corporation, San Francisco, Calif. Canned fruits and vegetables, olives, peppers, jams, &c. No. 109,744; Aug. 24; v. 277; p. 753.
Cavanna & Company, Philadelphia, Pa. Canned olive-oil. No. 134,107; Aug. 24; v. 277; p. 772.
Charleston Milling Company, Charleston, Mo. Wheat-flour. No. 128,653; Aug. 24; v. 277; p. 761.
Cohn, L. A., & Bro., Chicago, Ill. Babbitt metal, brass ingots, &c. No. 131,146; Aug. 24; v. 277; p. 766.
Collins Safety Razor Company, Chicago, Ill. Safety-razors and mechanical stroppers for the blades thereof. No. 129,829; Aug. 24; v. 277; p. 762.
De Bruyn, Limited, London, England. Edible oils and fats. No. 131,946; Aug. 24; v. 277; p. 768.
De Laval Separator Company, The, New York, N. Y. Milking machinery. No. 132,775; Aug. 24; v. 277; p. 769.
Dickson, W. R., San Francisco, Calif. Suitcases and traveling bags. No. 131,107; Aug. 24; v. 277; p. 766.
Duncan Lumber Company, Portland, Oreg. Printed trade pamphlets, circulars, books, &c., pertaining to the lumber business. No. 128,202; Aug. 24; v. 277; p. 760.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Explosives—namely, dynamite, &c. No. 119,156; Aug. 24; v. 277; p. 755.
Ehlert Products Co., Fresno, Calif. Non-intoxicating cereal beverage. No. 132,780; Aug. 24; v. 277; p. 769.
Electric Controller Co., Indianapolis, Ind. Electric heat-regulating devices. No. 132,232; Aug. 24; v. 277; p. 768.
Empire Transformer Company, Chicago, Ill. Electric heaters, transformers, bell-ringers, &c. No. 129,543; Aug. 24; v. 277; p. 761.
Engelhard, A., & Sons Company, Louisville, Ky. Foods and food ingredients. No. 130,666; Aug. 24; v. 277; p. 764.
Engle & Zelmer, New York, N. Y. Ladies' hats. No. 126,311; Aug. 24; v. 277; p. 759.
Everlast Ring Cast Company, Boston, Mass. Molds and parts in connection with molds used in casting jewelry. No. 133,730; Aug. 24; v. 277; p. 771.
Fortune Products Company, Chicago, Ill. Spaghetti, macaroni, vermicelli, and egg-noodles. No. 127,804; Aug. 24; v. 277; p. 760.
Foxley Stave & Lumber Co., Ltd., New Orleans, La. Rough lumber. Nos. 135,362–3; Aug. 24; v. 277; p. 776.
Freeman-Daughaday Co., Chartley, Mass. Collar-holders. No. 118,261; Aug. 24; v. 277; p. 754.
Frolaset Corset Company, Detroit, Mich. An article of wearing-apparel made of elastic webbing and fabric material. No. 121,467; Aug. 24; v. 277; p. 757.
Goldberg, H., New York, N. Y. Ladies' coats, cloaks, and suits. No. 125,656; Aug. 24; v. 277; p. 758.
Grand Rapids Show Case Company, Grand Rapids, Mich. Cloth and ribbon combination measuring and price-computing machines. No. 130,366; Aug. 24; v. 277; p. 764.
Great Western Milling Company, Los Angeles, Calif. Feed for stock. Nos. 130,960–1; Aug. 24; v. 277; p. 766.
Gsell, Roland A., New York, N. Y. Watches and watch-movements. No. 131,165; Aug. 24; v. 277; p. 767.
Guarantee Construction Company, New York, N. Y. Conveyers. No. 129,258; Aug. 24; v. 277; p. 761.
Guarantee Specialty Manufacturing Company, Cleveland, Ohio. Snap-fasteners. No. 133,878; Aug. 24; v. 277; p. 772.
Hall, Harry H., Dothan, Ala. Ready-mixed paints. Nos. 131,731–2; Aug. 24; v. 277; p. 767.
Hall, Thomas H., Jersey City, N. J. Gloves of silk and cotton. No. 117,137; Aug. 24; v. 277; p. 754.
Hitz, Jacobs & Company, New York, N. Y. Children's cribs and high chairs, rocking-chairs, beds, &c. No. 120,456; Aug. 24; v. 277; p. 756.
Hubbell, Harvey, Inc., Bridgeport, Conn. Convertible plug-caps. Nos. 134,585–6; Aug. 24; v. 277; pp. 774–5.
Hughes, Henry, & Son, Ltd., London, England. Measuring and scientific appliances. No. 119,975; Aug. 24; v. 277; p. 756.
Hurley Machine Company, Cicero, Ill. Laundry ironing-machines. No. 130,591; Aug. 24; v. 277; p. 764.
Hutchings, George B., assignor to Rado-Valv Corporation, Richmond, Va. Indicator-valves carried on automobile radiator caps, the valves to indicate when the water in the radiator is boiling. No. 129,892; Aug. 24; v. 277; p. 762.
Ideal Window Pulley Corporation, Brooklyn, N. Y. Window-pulley. No. 133,542; Aug. 24; v. 277; p. 771.
Illinois Auto Truck Co., Chicago, Ill. Motor-trucks and trailers. No. 118,148; Aug. 24; v. 277; p. 754.
International Cork Company, Brooklyn, N. Y. Ring and body life-preservers and swimming-floats. No. 126,124; Aug. 24; v. 277; p. 759.
International Harvester Company, Chicago, Ill. Binders, reapers, mowers, rakes, tedders, &c. No. 129,720; Aug. 24; v. 277; p. 762.
International Harvester Company, Chicago, Ill. Cultivators and separate parts thereof. No. 134,315; Aug. 24; v. 277; p. 773.
Jaeger's Dr., Sanitary Woolen System Co., New York, N. Y. Knitted and woven underwear, hosiery, sweaters, &c. No. 130,368; Aug. 24; v. 277; p. 764.
James, Edward, New York, N. Y. Cutlery, machinery, tools, &c. No. 131,734; Aug. 24; v. 277; p. 767.
K-D Manufacturing Co., Lancaster, Pa. Valve-spring lifters. No. 132,253; Aug. 24; v. 277; p. 768.

Kapp & Peterson Limited, Dublin, Ireland. Tobacco-pipes, cigar and cigarette holders. No. 129,896; Aug. 24; v. 277; p. 763.
Katzenbach & Bullock Co., New York, N. Y. Pigments and materials used in the manufacture of paint. No. 130,597; Aug. 24; v. 277; p. 764.
Katzman, Louis, Inc., New York, N. Y. Ladies' dresses and coats. No. 129,980; Aug. 24; v. 277; p. 763.
Kellogg Manufacturing Co., Rochester, N. Y. Air-pumps, hand and power driven pumps, &c. No. 130,189; Aug. 24; v. 277; p. 763.
Kenyon, John, & Co. (Sheffield,) Limited, Millsands, Sheffield, England. Iron, spring, blister, alloy, &c., steels. Nos. 119,896–7; Aug. 24; v. 277; p. 755.
Kenyon, John, & Co. (Sheffield,) Limited, Millsands, Sheffield, England. Iron, spring, blister, alloy, &c., steels. No. 119,901; Aug. 24; v. 277; p. 775.
Kenyon, John, & Co. (Sheffield,) Limited, Millsands, Sheffield, England. Iron, spring, blister, alloy, &c., steels. No. 119,903; Aug. 24; v. 277; p. 755.
Kleistone Rubber Co., Boston, Mass. Rubber soles and heels. Nos. 130,421–2; Aug. 24; v. 277; p. 764.
Kling-Tite Products Company, Chicago, Ill. Roof-cement. No. 132,794; Aug. 24; v. 277; p. 769.
Knapp & Van Nostrand, Inc., New York, N. Y. Dried cod-fish. No. 132,254; Aug. 24; v. 277; p. 768.
Kolbert, Edward, & Sons, New York, N. Y. Ladies' coats and suits. No. 129,636; Aug. 24; v. 277; p. 762.
Kor-Doh Manufacturing Corporation, Poughkeepsie, N. Y. Hand-reamers, machine-reamers. No. 132,538; Aug. 24; v. 277; p. 769.
Kummel, Albert, New York, N. Y. Infants' wearing-apparel, &c. No. 132,083; Aug. 24; v. 277; p. 768.
La Crosse Plow Company, La Crosse, Wis. Plows, cultivators, harrows, &c. No. 120,490; Aug. 24; v. 277; p. 756.
Lawrence Paper Manufacturing Company, Lawrence, Kans. Paper and fiber boxes. No. 128,393; Aug. 24; v. 277; p. 760.
Leukolith G. m. b. H., Saarbrücken, Germany. Mortar, dry mortar, lime, &c. No. 134,513; Aug. 24; v. 277; p. 774.
Ludcke Picture Screen Co., The, St. Peter, Minn. Moving-picture screens. No. 131,339; Aug. 24; v. 277; p. 767.
Ludlum Steel Company, Watervliet, N. Y. Magnet-steel. No. 133,265; Aug. 24; v. 277; p. 770.
Ludlum Steel Company, Watervliet, N. Y. Ball-bearing steel. No. 133,268; Aug. 24; v. 277; p. 770.
Ludlum Steel Company, Watervliet, N. Y. Drill-steel and carbon twist-drill steel. No. 133,271. Aug. 24; v. 277; p. 770.
Ludlum Steel Company, Watervliet, N. Y. Ball-bearing steel. No. 133,272; Aug. 24; v. 277; p. 770.
McRae & Roberts Co., The, Detroit, Mich. Plumbing fixtures and supplies, &c. No. 129,902; Aug. 24; v. 277; p. 763.
McTighe, M., Company, Inc. New York, N. Y. Phonographic reproducers. No. 133,018; Aug. 24; v. 277; p. 770.
Maine Pickling Co., Portland, Me. Sweet and sour mixed pickles, vinegars, &c. No. 130,147; Aug. 24; v. 277; p. 763.
Manasota Lumber Corporation, Manasota, Fla. Long-leaf-yellow-pine and cypress rough and finished lumber. No. 123,547; Aug. 24; v. 277; p. 757.
Marathon Tire & Rubber Company, The, Cuyahoga Falls, Ohio. Leather, fabric, or rubber belts for supporting outer garments. No. 135,336; Aug. 24; v. 277; p. 776.
Maryland Shoe Corporation, Baltimore, Md. Shoes. No. 129,562; Aug. 24; v. 277; p. 762.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 129,234; Aug. 24; v. 277; p. 761.
Merryman, Carl, Chicago, Ill. Calculating-machines. No. 129,733; Aug. 24; v. 277; p. 762.
Mervis, Samuel, Baltimore, Md. Russian and salad dressings, olive-naise, &c. No. 125,967; Aug. 24; v. 277; p. 759.
Miller Flour Mills, Yakima, Wash. Wheat-flour. No. 134,081; Aug. 24; v. 277; p. 772.
Mohawk Silk Fabric Co., New York, N. Y. Silk gloves, mocha-suede gloves, &c. No. 132,256; Aug. 24; v. 277; p. 769.
Morey Mercantile Company, The, Denver, Colo. Brooms. No. 131,225; Aug. 24; v. 277; p. 767.
Moxley, Wm. J., Inc., Chicago, Ill. Oleomargarin. No. 114,701; Aug. 24; v. 277; p. 754.
Naamlooze Vennootschap Anton Jurgens' Margarinefabrieken, Oss, Netherlands. Cattle food and cakes for stock-feeding purposes, animal and vegetable fats and oils for food purposes. No. 117,891; Aug. 24; v. 277; p. 754.
National Carbon Company, Inc., New York, N. Y. Refractory bricks. No. 130,842; Aug. 24; v. 277; p. 765.
Nestor Manufacturing Co., Inc., New York, N. Y. Machines and tools. No. 114,027; Aug. 24; v. 277; p. 755.
New Jersey Optical Co., Newark, N. J. Non-metallic frames for eyeglasses, spectacles, &c. No. 98,341; Aug. 24; v. 277; p. 753.
Newport Rolling Mill Co. Newport, Ky. Corrugated and plain metal sheets. No. 130,911; Aug. 24; v. 277; p. 765.
Newport Rolling Mill Co., Newport, Ky. Building material of galvanized-steel sheets, &c. No. 130,912; Aug. 24; v. 277; p. 765.
Optical Products Corporation, New York, N. Y. Celluloid frames, rims, nose-pieces, &c. No. 132,314; Aug. 24; v. 277; p. 769.
Oversea Export Co., Ltd., The, Christiania, Norway. Brisling and sild. No. 129,654; Aug. 24; v. 277; p. 762.
Owl Specialty Co., The, Paterson, N. J. Hat-bands, skirt and dress beltings, &c. No. 134,846; Aug. 24; v. 277; p. 775.
Pan-American Manufacturing Co., Houston, Tex. Spaghetti, noodles, vermicelli, &c. No. 132,881; Aug. 24; v. 277; p. 769.
Perry Auto Lock Company, Chicago, Ill. Automobile-locks for steering-posts. No. 119,247; Aug. 24; v. 277; p. 755.
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Lifting-jacks. No. 134,428; Aug. 24; v. 277; p. 773.
Pocahontas Braid Corporation, New York, N. Y. Braid-stitching, soutache, elastic, &c. No. 134,141; Aug. 24; v. 277; p. 773.
Price, A. S., & Co., Blackheath, England. Custard-powder, sponge-cake flour, &c. No. 116,897; Aug. 24; v. 277; p. 754.
Prieto Machine Company Inc., Brooklyn, N. Y. Fiber-decorticating machinery. No. 134,325; Aug. 24; v. 277; p. 773.
Quality Brands Company, The, Cleveland, Ohio. Glazing, roofing, and caulking compounds, &c. No. 133,227; Aug. 24; v. 277; p. 770.
Rado-Valv Corporation. (See Hutchings, George B., assignor.)
Rain-on-Tap Company. (See Sattelkau, Paul, assignor.)
Re-Be Soap Co., Inc., New York, N. Y. Soap-powder dispensers. No. 127,521; Aug. 24; v. 277; p. 759.
Red Ball Company, The, Madrid, Iowa. Soap powder, laundry-soap, shaving soap, &c. No. 134,432; Aug. 24; v. 277; p. 774.
Re-Fillt Broom Company, Boston, Mass. Brooms. No. 128,743; Aug. 24; v. 277; p. 761.
Reynolds, Marvin C., Oak Park, Ill. Cultured milk. No. 127,934; Aug. 24; v. 277; p. 760.
Rice, A., & Company, Limited, St. Thomas, Exeter, England. Collars, cuffs, day-shirts, &c. No. 130,117; Aug. 24; v. 277; p. 763.
Robeson Cutlery Co., The, Rochester, N. Y. Carving-sets. No. 134,093; Aug. 24; v. 277; p. 772.
Romaro Machine & Tool Co., Inc., New York, N. Y. Wrenches. No. 134,326; Aug. 24; v. 277; p. 773.
Rosenzweig, Pearl, Chicago, Ill. Polishing material for furniture, &c. No. 122,614; Aug. 24; v. 277; p. 757.
Rosefield, John B., Oakland, Calif. Animal foods. No. 134,527; Aug. 24; v. 277; p. 774.
Sampson, John S., & Son, New York, N. Y. Bar-pin for men's soft collars. No. 128,371; Aug. 24; v. 177; p. 760.
Saqui, Dave S., New York, N. Y. Cigars and cigarettes. No. 132,203; Aug. 24; v. 277; p. 768.
Sattelkau, Paul, San Francisco, Calif., assignor to Rain-on-Tap Company. Sprinkler systems for lawns and gardens. No. 124,672; Aug. 24; v. 277; p. 758.
Scheidt, Adam, Beverage Company, Norristown, Pa. Beverage made of malt and cereals, containing less than one-half of one per cent. of alcohol. Nos. 124,536–7; Aug. 24; v. 277; p. 758.
Searchlight Publishing Company, The, Wilmington, Del., and Washington, D. C. Monthly publications. No. 133,990; Aug. 24; v. 277; p. 772.
Selonick, Stanley E., & Co., New York, N. Y. Outer garments comprising suits and overcoats. No. 131,043; Aug. 24; v. 277; p. 766.
Serve-Us Grocery Products Corporation, New York, N. Y. Grape-juice, lemon-soda, &c. No. 134,037; Aug. 24; v. 277; p. 772.
Shabel, William A., Chicago, Ill. A preparation for cleaning white shoes, &c. No. 128,296; Aug. 24; v. 277; p. 760.
Sharples Separator Co., The, West Chester, Pa. Cream-separators and centrifugal machinery. No. 121,418; Aug. 24; v. 277; p. 757.
Shelby Supply & Manufacturing Company, The, Cleveland, Ohio. Chewing-gum. No. 111,190; Aug. 24; v. 277; p. 753.
Shoyer, D. W., & Co., New York, N. Y. Bloomers. No. 133,561; Aug. 24; v. 277; p. 771.
Silver Lake Company, Newton, Mass. Braided cords. No. 130,932; Aug. 24; v. 277; p. 766.
Société Anonyme des Savons de Marseille, Marseille, France. Soap. No. 125,730; Aug. 24; v. 277; p. 759.
Solomon, William G., New York, N. Y. Shower or mixing valves for shower-baths. No. 124,013; Aug. 24; v. 277; p. 758.
Solomon, Zillee, St. Louis, Mo. Men's coats, vests, trousers, top-coats, and overcoats. No. 121,699; Aug. 24; v. 277; p. 757.
Southern Beverage Company, Galveston, Tex. Non-alcoholic beverages and syrups. No. 133,801; Aug. 24; v. 277; p. 771.
Southern Motor Manufacturing Association, Ltd., Houston, Tex. Automobiles, automobile-bodies, etc. No. 134,040; Aug. 24; v. 277; p. 772.
Spear & Jackson, Ltd., Sheffield, England. Steel of all descriptions. Nos. 120,972–3; Aug. 24; v. 277; p. 756.
Specialty Products Company. (See Bishop, Homer G., assignor.)

(REGISTRATION APPLIED FOR.)

Spietz, Charles J., Detroit, Mich. Cigars. No. 130,930; Aug. 24; v. 277; p. 765.
Steel, Non-Corrosive. Ludlum Steel Company. No. 133,270; Aug. 24; v. 277; p. 770.
Stein, A., & Company, Chicago, Ill. Combined waists and garters. No. 134,489; Aug. 24; v. 277; p. 774.
Stein, A., & Company, Chicago, Ill. Garters and hose-supporters. No. 134,488; Aug. 24; v. 277; p. 774.
Stein, Henry J., Boston, Mass. Syrups, &c., for soft drinks. No. 133,002; Aug. 24; v. 277; p. 770.
Stickaline Company, Inc., Portland, Me., and Boston, Mass. Stick mucilage. No. 128,472; Aug. 24; v. 277; p. 760.
Stowell Manufacturing Co., Jersey City, N. J. Pipe-coverings, non-metallic fireproof sheet-roofing materials, &c. No. 130,852; Aug. 24; v. 277; p. 765.
Supplee-Biddle Hardware Company, Philadelphia, Pa. Sheets, plates, and castings made from ferrous and non-ferrous metal alloys. Nos. 135,022–7; Aug. 24; v. 277; pp. 775–6.
Supplee-Biddle Hardware Company, Philadelphia, Pa. Tubes and pipes made from ferrous and non-ferrous metal alloys. Nos. 128,568–73; Aug. 24; v. 277; pp. 760–1.
Tarson, Andrew W., Chicago, Ill. Soap. No. 133,717; Aug. 24; v. 277; p. 771.
Tel-Til-Tip Co., Holland, Mich. Metallic plugs or inserts for boot and shoe heels. No. 126,495; Aug. 24; v. 277; p. 759.
Texas Company, The, Houston, Tex., and New York, N. Y. Felt roofing and roofing-cements. No. 119,480; Aug. 24; v. 277; p. 755.
Trippe, Graham, Atlanta, Ga. Game-board. No. 104,534; Aug. 24; v. 277; p. 753.
Tullograph Art Company, Los Angeles, Calif. Posters, display-cards, &c. No. 131,510; Aug. 24; v. 277; p. 767.
Tuschel, Gustave, Atlanta, Ga. Varnish or polish for furniture, automobiles, &c. No. 119,921; Aug. 24; v. 277; p. 756.
Union Chain & Manufacturing Company, The, Seville, Ohio. Elevating, conveying, and power-transmission machinery. No. 119,782; Aug. 24; v. 277; p. 755.
United Beverage Company, Marinette, Wis. Root-beer, ginger-ale, apple cider, &c. No. 132,830; Aug. 24; v. 277; p. 769.
United Drug Company, Boston, Mass. Compounds for cleaning fabrics, &c. No. 134,441; Aug. 24; v. 277; p. 774.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubberized cloth and blankets. No. 125,637; Aug. 24; v. 277; p. 758.
United States Syrup Co., San Francisco, Calif. Non-alcohol syrup of malt and hops. No. 129,687; Aug. 24; v. 277; p. 762.
United Xpedite Finishing Company, Portland, Me., and Boston, Mass. Heel and sole-edge finishing machines, &c. No. 134,047; Aug. 24; v. 277; p. 772.
Varnitone Manufacturing Company, The, Akron, Ohio. Polish for varnished and waxed surfaces, &c. No. 132,134; Aug. 24; v. 277; p. 768.
Ver-Vac Company, The, Baltimore, Md. Non-alcoholic maltless beverages, &c. No. 133,641; Aug. 24; v. 277; p. 771.
Vidalia Grocery Company, Vidalia, Ga. Canned vegetables. No. 122,197; Aug. 24; v. 277; p. 757.
Vitamon, A/S., Copenhagen, Denmark. Meat extracts, soup and sauce extracts, &c. No. 130,735; Aug. 24; v. 277; p. 765.
Wagner Manufacturing Company, Indianapolis, Ind. Flexible toilet-seat covers. No. 133,645; Aug. 24; v. 277; p. 771.
Wardlow, Marmaduke, Sheffield, England. Tool-steel and steel in rod, bar, &c., forms, also high-speed, nickel, &c., steel and anvils. No. 116,116; Aug. 24; v. 277; p. 754.
Wardlow; Marmaduke, Sheffield, England. Twist, miners', and rock drills, reamers, gouges, axes, &c. No. 116,117; Aug. 24; v. 277; p. 754.
Waterman, J. S., & Sons, Inc., Boston, Mass. Burial-caskets, &c. No. 131,365; Aug. 24; v. 277; p. 767.
Wells-Lamont Manufacturing Company, Minneapolis, Minn. Cotton gloves. No. 120,335; Aug. 24; v. 277; p. 756.
Western Martha Washington Candies Co., Chicago, Ill. Candy. No. 133,389; Aug. 24; v. 277; p. 171.
Wink-O Products Co., The, Dunbar, W. Va. Soap packed in tin cans. No. 134,400; Aug. 24; v. 277; p. 773.
Yale & Towne Mfg. Co., The, Stamford, Conn. Automatic bolt-operating machines, &c. No. 131,055; Aug. 24; v. 277; p. 766.
Yale & Towne Mfg. Co., The, Stamford, Conn. Automatic bolt-operating machines, &c. No. 131,057; Aug. 24; v. 277; p. 766.
Youngstown Pressed Steel Company, The, Youngstown, Ohio. Metal lath. No. 134,993; Aug. 24; v. 277; p. 775.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 24TH DAY OF AUGUST, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acids, Thienylquinolin carboxylic. M. Hartmann and E. Wybert. No. 1,350,408; Aug. 24; v. 277; p. 614.
Address-stencil. G. J. Evans. No. 1,350,993; Aug. 24; v. 277; p. 727.
Aeroplane. M. Petersen. No. 1,350,938; Aug. 24; v. 277; p. 717.
Air-cushion, Hydraulic. J. D. Langdon. No. 1,350,414; Aug. 24; v. 277; p. 616.
Air or gas, Storage cylinder or vessel for compressed. S. J. Murphy. No. 1,350,666; Aug. 24; v. 277; p. 665.
Alkaline accumulator. A. M. Cave. No. 1,350,956; Aug. 24; v. 277; p. 720.
Alkyl ether of starches and similar carbohydrates and producing same. L. Lilienfeld. No. 1,350,820; Aug. 24; v. 277; p. 695.
Alloy. H. S. Cooper. No. 1,350,359; Aug. 24; v. 277; p. 605.
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Toll-collecting mechanism. C. B. Davis. No. 1,350,958; Aug. 24; v. 277; p. 721.
Tongs, Lifting-. J. H. Smith. No. 1,350,675; Aug. 24; v. 277; p. 667.
Tool, Boring-. J. Van Der Vorn. No. 1,350,394; Aug. 24; v. 277; p. 612.
Tool, Percussion-. W. H. Keller. No. 1,350,505; Aug. 24; v. 277; p. 634.
Tool, Pipe-flanging. J. F. Walters. No. 1,350,904; Aug. 24; v. 277; p. 710.
Tool-rod. E. R. Schwarz and A. J. Martenay. No. 1,350,425; Aug. 24; v. 277; p. 618.
Tool, Threading-. J. J. Flynn. No. 1,350,861; Aug. 24; v. 277; p. 702.
Tools, Throttle-valve for percussive. H. V. Haight. No. 1,350,407; Aug. 24; v. 277; p. 614.
Tools, Valve for percussive. W. A. Smith. No. 1,350,342; Aug. 24; v. 277; p. 601.
Torpedoes, Making. J. Scardone. No. 1,350,845; Aug. 24; v. 277; p. 699.
Toy. B. G. Richards. No. 1,350,338; Aug. 24; v. 277; p. 600.
Toy balloon. F. Pastor. No. 1,350,935; Aug. 24; v. 277; p. 716.
Toy battleship and tank-car, Convertible. W. E. McLaren. No. 1,350,417; Aug. 24; v. 277; p. 616.
Toy doll. W. Lenchard. No. 1,350,660; Aug. 24; v. 277; p. 664.
Toy vehicle. W. E. Gleeson. No. 1,350,492; Aug. 24; v. 277; p. 632.
Track, Metal road-. C. J. Linden. No. 1,350,872; Aug. 24; v. 277; p. 704.
Tractor. J. Guth. No. 1,350,451; Aug. 24; v. 277; p. 624.
Tractor. R. H. White. (Reissue.) No. 14,938; Aug. 24; v. 277; p. 733.
Tractor pusher attachment. P. A. Records. No. 1,350,838; Aug. 24; v. 277; p. 698.
Tractors, Hitch for two-wheel. J. D. Flory. No. 1,350,962; Aug. 24; v. 277; p. 721.
Traffic-signal. H. R. Saxon. No. 1,350,469; Aug. 24; v. 277; p. 627.
Traversing motions, Reversible. H. A. J. de B. Nachenius. No. 1,350,560; Aug. 24; v. 277; p. 645.
Trimming-machine. J. Fausse. No. 1,350,305; Aug. 24; v. 277; p. 594.
Trolley. B. F. Fitch. No. 1,350,648; Aug. 24; v. 277; p. 662.
Truck, Artillery. W. T. Dove. No. 1,350,644; Aug. 24; v. 277; p. 661.
Truck, Auto ambulance-. J. H. Staley. No. 1,350,527; Aug. 24; v. 277; p. 639.
Truck, Folding display-. H. C. Fowler. No. 1,350,963; Aug. 24; v. 277; p. 722.
Trunk and table, Combination. J. Nierodka. No. 1,350,834; Aug. 24; v. 277; p. 698.
Tube: *See*—
Rectal tube.
Tubing, Channel-. M. L. Brown. No. 1,350,544; Aug. 24; v. 277; p. 642.
Tubular objects, Making a plurality of like. T. E. Murray. No. 1,350,829; Aug. 24; v. 277; p. 697.
Tungsten, Method of and article for alloying. J. H. Deppeler. No. 1,350,709; Aug. 24; v. 277; p. 674.
Tunnel-lining. J. C. Meem. No. 1,350,556; Aug. 24; v. 277; p. 644.
Typesetting-machine. G. P. Davis. No. 1,350,707; Aug. 24; v. 277; p. 673.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,350,387; Aug. 24; v. 277; p. 610.
Typewriting-machine. B. C. Stickney and A. A. Johnson. No. 1,350,681; Aug. 24; v. 277; p. 668.
Typewriting-machine. J. Waldheim. No. 1,350,398; Aug. 24; v. 277; p. 613.
Underreamer. C. S. Wright. No. 1,350,765; Aug. 24; v. 277; p. 684.
Underskirt. A. R. Starkweather. No. 1,350,848; Aug. 24; v. 277; p. 700.
Utensil-cover holder. C. H. Kors. No. 1,350,817; Aug. 24; v. 277; p. 695.
Valuables, Safety device for. M. E. Gruetzmacher. No. 1,350,606; Aug. 24; v. 277; p. 654.
Valve, Fluid-pressure. J. Davidson. No. 1,350,438; Aug. 24; v. 277; p. 621.
Valve, Inlet or check. F. L. Henig. No. 1,530,610; Aug. 24; v. 277; p. 655.
Valve-lifter and hand-vise, Combined. P. P. Hinckley. No. 1,350,603; Aug. 24; v. 277; p. 692.
Valve-seats, Tool for refacing. L. R. Van Volkenburg. No. 1,350,901; Aug. 24; v. 277; p. 709.
Varnished-surface burnisher. R. A. Alexander. No. 1,350,537; Aug. 24; v. 277; p. 640.
Vehicle Motor-. C. C. Keesler. No. 1,350,460; Aug. 24; v. 277; p. 625.
Vehicle, Motor-. E. H. Oversmith. No. 1,350,668; Aug. 24; v. 277; p. 666.
Vehicle, Occupant-propelled. W. D. Smith. No. 1,350,577; Aug. 24; v. 277; p. 649.
Vehicle-operating mechanism. E. Gruenfeldt. No. 1,350,450; Aug. 24; v. 277; p. 623.
Vehicle-signal. S. E. Hallen. No. 1,350,969; Aug. 24; v. 277; p. 723.
Vehicle-spring. M. L. Riggs. No. 1,350,942; Aug. 24; v. 277; p. 718.
Vehicle-wheel. L. Hofmeister. No. 1,350,457; Aug. 24; v. 277; p. 625.
Vehicle-wheel. A. Mills. No. 1,350,617; Aug. 24; v. 277; p. 656.
Vehicles, Adjustable frame for shipping. G. A. Bouvier. No. 1,350,699; Aug. 24; v. 277; p. 672.
Vehicles, Automatic speed-controller for moving. P. J. Simmen. No. 1,350,476; Aug. 24; v. 277; p. 629.
Veil. R. Green. No. 1,350,494; Aug. 24; v. 277; p. 632.
Ventilator: *See*—
Hat-ventilator. Window-ventilator.
Vine-cutter. G. W. Stuart. No. 1,350,529; Aug. 24; v. 277; p. 639.
Vise-handle. J. H. Bentley. No. 1,350,773; Aug. 24; v. 277; p. 686.
Vessels, Handle for metallic. W. C. Leavitt. No. 1,350,659; Aug. 24; v. 277; p. 664.
Vulcanizing apparatus. O. F. Beck, J. W. Speers, and R. R. Jones. No. 1,350,696; Aug. 24; v. 277; p. 671.
Wall-block, Interlocking. R. J. Dyer. No. 1,350,490; Aug. 24; v. 277; p. 631.
Wall construction. R. I. Allsworth. No. 1,350,633; Aug. 24; v. 277; p. 659.
Wall construction. W. E. Wilson. No. 1,350,399; Aug. 24; v. 277; p. 613.
Wall construction, Interlocking-block. S. Pisciotta. No. 1,350,835; Aug. 24; v. 277; p. 698.
Washing-machine. J. H. Bair. No. 1,350,353; Aug. 24; v. 277; p. 603.
Washing-machine. L. Maples. No. 1,350,823; Aug. 24; v. 277; p. 696.
Washing-machine. W. M. Simpson. No. 1,351,008; Aug. 24; v. 277; p. 730.
Watering device. C. F. Kollin. No. 1,350,411; Aug. 24; v. 277; p. 615.
Weather-strip. G. C. Reeves. No. 1,350,883; Aug. 24; v. 277; p. 706.
Weighing-machine, Automatic. C. Kader. No. 1,350,611; Aug. 24; v. 277; p. 655.
Welding apparatus. H. M. Smith. No. 1,350,572; Aug. 24; v. 277; p. 648.
Welding condenser parts. R. D. Mershon and P. A. Ross. No. 1,350,557; Aug. 24; v. 277; p. 644.
Welding, Electric. T. E., Jr., and J. B. Murray. No. 1,350,831; Aug. 24; v. 277; p. 697.
Welding transverse plates to tubes, Electrically. T. E. Murray. No. 1,350,833; Aug. 24; v. 277; p. 697.
Welt-forming device. A. W. Liljeberg. No. 1,350,731; Aug. 24; v. 277; p. 678.
Well-drilling bit for oil, water, or gas. J. D. Pace. No. 1,351,003; Aug. 24; v. 277; p. 729.
Wheel: *See*—
Car-wheel. Shock-absorbing wheel.
Convertible wheel. Spring-wheel.
Sheet-metal vehicle-wheel. Vehicle-wheel.
Wheel-hub and bearing. J. R. Adams. No. 1,350,851; Aug. 24; v. 277; p. 700.
Wheel-dressing mechanism. J. J. Thacher. No. 1,350,531; Aug. 24; v. 277; p. 639.
Wheel mounting, Steering-. L. Rial and W. Hebern. No. 1,350,841; Aug. 24; v. 277; p. 699.
Wheel or rim spreader. O. K. Sauder. No. 1,350,524; Aug. 24; v. 277; p. 638.
Wheel-spoke-repair means. R. A. Stoute. No. 1,350,528; Aug. 24; v. 277; p. 639.
Window-ventilator. J. Dixon. No. 1,350,792; Aug. 24; v. 277; p. 690.
Windshield-cleaning device. E. A. Tverdahl. No. 1,350,751; Aug. 24; v. 277; p. 682.
Wire-mill. T. Fullbright. No. 1,350,307; Aug. 24; v. 277; p. 594.
Wood. Machine for graining. J. A. Bjorn. No. 1,350,918; Aug. 24; v. 277; p. 713.
Woodworking-machine. J. F. Sheppard, 2d, and W. D. Fletcher. No. 1,350,341; Aug. 24; v. 277; p. 601.
Work-holder. R. Becker. No. 1,350,290; Aug. 24; v. 277; p. 591.
Wrapper-applying mechanism. J. B. Harriss. No. 1,350,608; Aug. 24; v. 277; p. 654.
Wreaths, Automatic machine for making frames for. No. 1,351,009; Aug. 24; v. 277; p. 730.
Wrench: *See*—
Horseshoe-calk wrench. Pipe-flange wrench.
Monkey-wrench.
Wrench, M. Katzmarek. No. 1,350,315; Aug. 24; v. 277; p. 596.
Wrench, F. E. Sayres. No. 1,350,671; Aug. 24; v. 277; p. 666.
Wringer: *See*—
Mop-wringer.
Wringer-control mechanism. O. B. Woodrow. No. 1,350,692; Aug. 24; v. 277; p. 670.
Yoke, Draft-gear. C. A. Carscadin. No. 1,350,436; Aug. 24; v. 277; p. 620.

ALPHABETICAL LIST OF DESIGNS.

Anchor-rod. A. B. Chance. No. 56,118; Aug. 24; v. 277; p. 734.
Automobile-bumper. L. Stafford. No. 56,203; Aug. 24; v. 277; p. 749.
Automobile-domelight, &c., Trimming for an. F. E. Greene. No. 56,146; Aug. 24; v. 277; p. 740.
Automobile-door-lock, Handle for an. F. E. Greene. Nos. 56,140–1; Aug. 24; v. 277; pp. 738–9.
Automobile-door lock, &c., Handle for an. F. E. Greene. No. 56,145; Aug. 24; v. 277; p. 739.
Automobile-door lock, &c., Trimming-plate for an. F. E. Greene. No. 56,142; Aug. 24; v. 277; p. 739.
Automobile-light, &c., Trimming for an. F. E. Greene. Nos. 56,138–9; Aug. 24; v. 277; p. 738.
Automobile-lock. F. Geilinger. No. 56,135; Aug. 24; v. 277; p. 737.
Automobile traffic-signal. E. Rapattoni. No. 56,193; Aug. 24; v. 277; p. 748.
Automobile-window regulator, &c., Handle construction for an. F. E. Greene. No. 56,144; Aug. 24; v. 277; p. 739.
Automobile-window regulators, &c., Handle construction for an. F. E. Greene. No. 56,148; Aug. 24; v. 277; p. 740.
Automobiles, Instrument-board for. A. Ward, Jr. No. 56,212; Aug. 24; v. 277; p. 751.
Badge, button, or emblem. C. A. Berkey. No. 56,115; Aug. 24; v. 277; p. 733.
Belt. V. Guinzburg. No. 56,151; Aug. 24; v. 277; p. 741.
Box. P. Hall. No. 56,152; Aug. 24; v. 277; p. 741.
Buffet. H. Silver. No. 56,201; Aug. 24; v. 277; p. 749.
Cabinet, Advertising-. J. Jewell. No. 56,165; Aug. 24; v. 277; p. 743.
Cabinet, Phonograph-. G. W. Bristol. No. 56,117; Aug. 24; v. 277; p. 734.
Cabinet, Phonograph-. J. Wolff. No. 56,214; Aug. 24; v. 277; p. 751.
Candelabrum, Electric. F. A. Frerichs. No. 56,125; Aug. 24; v. 277; p. 735.
Candlestick, Electric. F. A. Frerichs. No. 56,124; Aug. 24; v. 277; p. 735.
Cap, Swimming-. W. D. Forbes. No. 56,123; Aug. 24; v. 277; p. 735.
Car, Foot-propelled child's. J. H. Strain. No. 56,204; Aug. 24; v. 277; p. 750.
Ceiling-fixture, Electric. F. A. Frerichs. No. 56,134; Aug. 24; v. 277; p. 735.
Chandelier, Electric. F. A. Frerichs. No. 56,130; Aug. 24; v. 277; p. 737.
Chandelier, Electric. F. A. Frerichs. No. 56,133; Aug. 24; v. 277; p. 737.
Clutch. W. A. Schuler. No. 56,196; Aug. 24; v. 277; p. 748.
Container. V. Vivaudou. Nos. 56,210–11; Aug. 24; v. 277; p. 751.
Desk. P. J. Jones and P. D. Schreiber. No. 56,168; Aug. 24; v. 277; p. 744.
Desk and seat, Combined. P. J. Jones and P. D. Schreiber. No. 56,170; Aug. 24; v. 277; p. 744.
Dental cotton-holder. T. G. Lewis. No. 56,181; Aug. 24; v. 277; p. 746.
Doll. J. B. Gruelle. No. 56,149; Aug. 24; v. 277; p. 749.
Doll. E. Peruggi. Nos. 56,190–1; Aug. 24; v. 277; pp. 747–8.
Electric switch, &c., Plate for an. F. E. Greene. No. 56,143; Aug. 24; v. 277; p. 739.
Electric switch, &c., Plate for an. F. E. Greene. No. 56,147; Aug. 24; v. 277; p. 740.
Emblem, badge, button or similar article. M. E. Heilbrun. No. 56,155; Aug. 24; v. 277; p. 741.
Fabric for decorative purposes, Textile. G. Reybet. Nos. 56,194–5; Aug. 24; v. 277; p. 748.
Fabric for decorative purposes, Textile. G. J. Vergile. Nos. 56,208–9; Aug. 24; v. 277; p. 750.
Fabric for decorative purposes, Textile. C. Waugh. No. 56,213; Aug. 24; v. 277; p. 751.
Fabric, Textile. C. Katz. No. 56,172; Aug. 24; v. 277; p. 744.
Fabric, Textile. E. Krupicka. Nos. 56,177–9; Aug. 24; v. 277; pp. 745–6.
Fabric, Textile. L. F. Orcutt. Nos. 56,187–9; Aug. 24; v. 277; p. 747.
Food-masher. B. F. Crisenberry. No. 56,119; Aug. 24; v. 277; p. 734.
Game-board. J. Guerin. No. 56,150; Aug. 24; v. 277; p. 740.
Game-board. E. J. Scott. No. 56,200; Aug. 24; v. 277; p. 749.
Hatband. J. H. de Sibour. No. 56,120; Aug. 24; v. 277; p. 734.
Kazoo. L. V. Aronson. No. 56,114; Aug. 24; v. 277; p. 733.
Key-ring. L. J. Berry and H. Smith. No. 56,116; Aug. 24; v. 277; p. 734.
Lace. T. O. Kumalehto. No. 56,180; Aug. 24; v. 277; p. 746.
Lace collar, Embroidered. H. Schwarber. Nos. 56,198–9; Aug. 24; v. 277; p. 749.
Lamp, Electric bridge-. F. A. Frerichs. Nos. 56,127–8 Aug. 24; v. 277; p. 736.
Lamp-fixture. H. A. Holloway. Nos. 56,162–3; Aug. 24; v. 277; p. 743.
Lamp, Electric floor-. F. A. Frerichs. No. 56,126; Aug. 24; v. 277; p. 736.
Lamp, Electric table-. F. A. Frerichs. No. 56,129; Aug. 24; v. 277; p. 736.
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Lighting-fixture. A. F. B. Harraden. No. 56,154; Aug. 24; v. 277; p. 741.
Lighting-fixtures, Arm for. S. Kostszewski. No. 56,175; Aug. 24; v. 277; p. 745.
Lighting-fixtures, Bracket-back for. S. Kostszewski. No. 56,176; Aug. 24; v. 277; p. 745.
Lighting-fixtures, Spindle for. S. Kostszewski. No. 56,174; Aug. 24; v. 277; p. 745.
Piano-case. W. M. Paisted. No. 56,192; Aug. 24; v. 277; p. 748.
Picture-frame. Z. Klotz. No. 56,173; Aug. 24; v. 277; p. 745.
Picture-frame ornament. M. L. Strong. No. 56,205; Aug. 24; v. 277; p. 750.
Picture-frame ornament. M. L. Strong. No. 56,206; Aug. 24; v. 277; p. 750.
Picture-mat, Service. M. J. Smyth. No. 56,202; Aug. 24; v. 277; p. 749.
Pillow top or article of similar nature. M. D. Dreyfach. No. 56,121; Aug. 24; v. 277; p. 735.
Pin or badge, Fraternity. O. Henry. No. 56,156; Aug. 24; v. 277; p. 741.
Pole-holder. R. A. Schultz. No. 56,197; Aug. 24; v. 277; p. 749.
Ring. S. Mitchell. No. 56,184; Aug. 24; v. 277; p. 746.
Seat. P. J. Jones and P. D. Screiber. No. 56,169; Aug. 24; v. 277; p. 744.
Spoon, fork, &c., Handle for. C. W. Harman. No. 56,153; Aug. 24; v. 277; p. 741.
Statuette. W. J. Jacobi. No. 56,164; Aug. 24; v. 277; p. 743.
Statuette. E. H. Jones. Nos. 56,166–7; Aug. 24; v. 277; p. 743–4.
Street-direction and advertising device. H. J. Hickey and W. E. McMullan. No. 56,157; Aug. 24; v. 277; p. 742.
Table, Barber's combination work-. E. J. Nelson. No. 56,186; Aug. 24; v. 277; p. 747.
Table or similar article. M. B. Lloyd. Nos. 56,182–3; Aug. 24; v. 277; p. 746.
Tire. V. Ehrlicher. No. 56,122; Aug. 24; v. 277; p. 735.
Tire. R. H. Holbrook. No. 56,158; Aug. 24; v. 277; p. 742.
Tire-tread. M. L. A. A. Allard. No. 56,113; Aug. 24; v. 277; p. 733.
Toy, Aerial. S. N. Juthe and S. H. Lang. No. 56,171; Aug. 24; v. 277; p. 744.
Toy aeroplane. E. Monteleone. No. 56,185; Aug. 24; v. 277; p. 747.
Toy, Animal. J. M. Hollister. No. 56,161; Aug. 24; v. 277; p. 742.
Toy chair. J. M. Hollister. No. 56,159; Aug. 24; v. 277; p. 742.
Toy bed. J. M. Hollister; No. 56,160; Aug. 24; v. 277; p. 742.
Toy-vehicle wheel. A. C. Gilbert. No. 56,136; Aug. 24; v. 277; p. 738.
Vehicle, Child's. J. Van Wuyckhuyse. No. 56,207; Aug. 24; v. 277; p. 750.
Wall-bracket, Electric. F. A. Frerichs. Nos. 56,131–2; Aug. 24; v. 277; p. 737.

ALPHABETICAL LIST OF TRADE-MARKS.

Adhesive compound for mending automobile-radiators, &c. H. R. Pendleton. No. 134,264; Aug. 24; v. 277; p. 778.
Apples, Fresh. J. P. Gray. No. 134,244; Aug. 24; v. 277; p. 778.
Automobile-polish, Wax. Stowell Gribble Chemical Company. No. 134,325; Aug. 24; v. 277; p. 781.
Boilers, expansion-tanks, &c., Range-. John Wood Mfg. Co. No. 134,330; Aug. 24; v. 277; p. 781.
Bouillon-cubes. A. L. Freden. No. 134,236; Aug. 24; v. 277; p. 777.
Bread. Ward Baking Company. No. 134,292; Aug. 24; v. 277; p. 779.
Bread. D. P. Woolley. No. 134,300; Aug. 24; v. 277; p. 779.
Candies, glacé nuts, barley toys. Mrs. B. F. Tilley, Jr. No. 134,291; Aug. 24; v. 277; p. 779.
Candy. Robert A. Johnston Company. No. 134,247; Aug. 24; v. 277; p. 778.
Candy. The Redel Candy Corporation. Nos. 134,270–3; Aug. 24; v. 277; p. 779.
Candy. Russell & Company. No. 134,278; Aug. 24; v. 277; p. 779.
Candy. Westmoreland Candy Co. No. 134,298; Aug. 24; v. 277; p. 779.
Canned and crushed fruits, preserves, and jams. Puyallup and Sumner Fruit Growers Canning Co. No. 134,269; Aug. 24; v. 277; p. 778.
Canned fish. Paxton & Gallagher Co. No. 134,263; Aug. 24; v. 277; p. 778.
Canned fruits and vegetables. Richmond-Chase Company. Nos. 134,275–7; Aug. 24; v. 277; p. 779.
Canned goods. A. Kickbusch Grocery Co. No. 134,250; Aug. 24; v. 277; p. 778.
Canned mackerel. P. Barna. No. 134,217; Aug. 24; v. 277; p. 777.
Canned, salted, and pickled fish. Alaska Salmon Co. No. 134,208; Aug. 24; v. 277; p. 777.
Canned sardines. Globe Canning Company. Nos. 134,241–3; Aug. 24; v. 277; p. 778.
Canned vegetables and fruits. San Jose Canning Co. Nos. 134,279–80; Aug. 24; v. 277; p. 779.
Cementitious preparation usable in the form of a putty. F. B. O'Brien. No. 134,259; Aug. 24; v. 277; p. 778.
Chocolate. Suchard, S. A. No. 134,285; Aug. 24; v. 277; p. 779.
Chocolates and candies. Wallace & Co. Nos. 134,328–9; Aug. 24; v. 277; p. 781.
Clocks and parts thereof, Electric. Tiffany Never Wind Clock Corporation. No. 134,327; Aug. 24; v. 277; p. 781.
Coffee. D. W. Thacker. No. 134,287; Aug. 24; v. 277; p. 779.
Coffee. The Woolson Spice Company. No. 134,301; Aug. 24; v. 277; p. 779.
Confectionery. Candy Products Corporation. No. 134,225; Aug. 24; v. 277; p. 777.
Cooking compound. Lever Brothers Company. No. 134,252; Aug. 24; v. 277; p. 778.
Cornmeal. W. M. Cosby Flour & Grain Co. No. 134,230; Aug. 24; v. 277; p. 777.
Eggs subjected to a preservative process. Mutual Creamery Company. No. 134,257; Aug. 24; v. 277; p. 778.
Enamel ware. Columbian Enameling & Stamping Co. No. 134,309; Aug. 24; v. 277; p. 781.
Envelop-sealing slips, adhesive-paper seals. W. Sessions. No. 134,281; Aug. 24; v. 277; p. 779.
Eyeglasses. C. L. Hogue. No. 134,245; Aug. 24; v. 277; p. 778.
Feed, Dairy. St. Albans Grain Company. No. 134,284; Aug. 24; v. 277; p. 779.
Feed, Stock. St. Albans Grain Company. No. 134,283; Aug. 24; v. 277; p. 779.
Fertilizers. Armour Fertilizer Works. No. 134,212; Aug. 24; v. 277; p. 777.
Flour, Corn-. The Patent Cereals Company. No. 134,262; Aug. 24; v. 277; p. 778.
Flour, cornmeal, and rolled oats, Wheat-. W. P. Tanner-Gross & Company. No. 134,286; Aug. 24; v. 277; p. 779.
Flour, Barley-malt. Gambrill Grain Products Company. No. 134,238; Aug. 24; v. 277; p. 778.
Flour, hominy, grits, meal, &c., Corn-. Postum Cereal Company. No. 134,267; Aug. 24; v. 277; p. 778.
Flour, Wheat-. The Atchison Mills Corporation. No. 134,214; Aug. 24; v. 277; p. 777.
Flour, Wheat-. The Colorado Milling & Elevator Co. No. 134,229; Aug. 24; v. 277; p. 777.
Flour, Wheat-. Donmeyer, Gardner Co. Nos. 134,233–4; Aug. 24; v. 277; p. 777.
Flour, Wheat-. Hormel Milling Company. No. 134,246; Aug. 24; v. 277; p. 278.
Flour, Wheat-. Washburn-Crosby Company. Nos. 134,293–7; Aug. 24; v. 277; p. 779.
Flour, Wheat and buckwheat. Bay City Milling Company. No. 134,218; Aug. 24; v. 277; p. 777.
Flour, Wheat and self-rising wheat. City Mills Company. Nos. 134,227–8; Aug. 24; v. 277; p. 777
Flowers, Artificial. R. J. Munn & Bros. No. 134,321; Aug. 24; v. 277; p. 781.
Foods. Odelsa Mfg. Co. No. 134,260; Aug. 24; v. 277; p. 778.
Foods. John R. Thompson Co. No. 134,288; Aug. 24; v. 277; p. 779.
Foods, Breakfast. V. D. Lersch. No. 134,251; Aug. 24; v. 277; p. 778.
Fruits, Citrus and fresh. L. Powers. No. 134,268; Aug. 24; v. 277; p. 778.
Fruits, Fresh. Jones & Pettigrew. No. 134,249; Aug. 24; v. 277; p. 278.
Fruits—namely, grapes, Fresh. C. Wilson. No. 134,299; Aug. 24; v. 277; p. 779.
Glass. Corning Glass Works. No. 134,311; Aug. 24; v. 277; p. 781.
Glue. M. Fiegel & Bro. No. 134,235; Aug. 24; v. 277; p. 777.
Hams. Corkran, Hill & Co. No. 134,310; Aug. 24; v. 277; p. 781.
Hosiery and underwear. Rivoli Silk Hosiery Co. No. 134,323; Aug. 24; v. 277; p. 781.
Ice-cream. Detroit Creamery Company. No. 134,231; Aug. 24; v. 277; p. 777.
Ice-cream, fancy chocolates, and creamery-butter. Arctic Cream Co. No. 134,213; Aug. 24; v. 277; p. 777.
Instruments for indicating, measuring, and recording the velocity of flowing streams. The Pitometer Company. No. 134,265; Aug. 24; v. 277; p. 778.
Laundry-machines, &c., Machines for timing and controlling the period of operation of. The Automatic Appliance Company. Nos. 134,215–16; v. 277; p. 777.
Leather, Harness and shoe. McIntyre-Burrall Company. No. 134,320; Aug. 24; v. 277; p. 781.
Looms and parts thereof. Draper Corporation. No. 134,315; Aug. 24; v. 277; p. 781.
Machinery. Sullivan Machinery Company. No. 134,326; Aug. 24; v. 277; p. 781.
Measuring and cost-computing machines, Fabric-. The Measuregraph Company. No. 134,256; Aug. 24; v. 277; p. 778.
Measuring and scientific appliances. Tiffany Company. Nos. 134,289–90; Aug. 24; v. 277; p. 779.
Meats, Cold. Pollodoro Restaurant Co. No. 134,266; Aug. 24; v. 277; p. 778.
Milk, Unsweetened evaporated. A. O. Andersen & Co. No. 134,211; Aug. 24; v. 277; p. 777.
Oil and other edible oils, Olive-. Torres y Ribelles. No. 134,274; Aug. 24; v. 277; p. 779.
Oleomargarin. Glidden Nut Butter Company. Nos. 134,239–40; Aug. 24; v. 277; p. 777.
Oleomargarin. Palmine Company. No. 134,261; Aug. 24; v. 277; p. 778.
Oysters canned or otherwise put up, Fresh. L. P. Maggioni Company. Nos. 134,253–4; Aug. 24; v. 277; p. 778.
Paper patterns for men's clothes. R. J. Burgan. No. 134,224; Aug. 24; v. 277; p. 777.
Paper, Writing-. Fox River Paper Company. No. 134,316; Aug. 24; v. 277; p. 781.
Paste, mucilage, Library-. R. T. Furman. No. 134,237; Aug. 24; v. 277; p. 778.
Peanuts, peanut-butter, coffee, tea, cocoa, Salted. G. C. Browne. No. 134,223; Aug. 24; v. 277; p. 777.
Photographic dry plates and films. G. Cramer Dry Plate Company. No. 134,312; Aug. 24; v. 277; p. 781.
Picture films, Motion-. Simiec Film Company. No. 134,282; Aug. 24; v. 277; p. 779.
Picture films, Moving-. The Bray Pictures Corporation. No. 134,221; Aug. 24; v. 277; p. 777.
Pile fabrics of all kinds in the piece. Sidney Blumenthal & Co. No. 134,304; Aug. 24; v. 277; p. 781.
Potato chips, doughnuts, Zwieback. G. H. Becker. No. 134,219; Aug. 24; v. 277; p. 777.
Powders, Insect-. McCormick Co. No. 134,319; Aug. 24; v. 277; p. 781.
Printing, &c., tickets, Machines for. The National Cash Register Company. No. 134,258; Aug. 24; v. 277; p. 778.
Razors and blades, Safety-. Gillette Safety Razor Company. No. 134,317; Aug. 24; v. 277; p. 781.
Rubber, Canned adhesive. F. F. Brinker. No. 134,222; Aug. 24; v. 277; p. 777.
Scales, Weighing-. Mason, Davis & Company. No. 134,255; Aug. 24; v. 277; p. 778.
Shoe-polishes. S. M. Bixby & Co. No. 134,303; Aug. 24; v. 277; p. 781.
Shoes, Composition for the treatment of white. S. M. Bixby & Co. No. 134,302; Aug. 24; v. 277; p. 781.

Soups. American "E" Products Company. Nos. 134,209–10; Aug. 24; v. 277; p. 777.
Sugar, Maple-. L. L. Bowles. No. 134,220; Aug. 24; v. 277; p. 777.
Tea. Chase & Sanborn. No. 134,226; Aug. 24; v. 277; p. 777.
Tea. H. A. Jones. No. 134,248; Aug. 24; v. 277; p. 778.
Telegraph and telephone apparatus, Wireless. De Forest Radio Telephone and Telegraph Company. Nos. 134,313–4; Aug. 24; v. 277; p. 781.
Tire-pumps. The W. H. Howell Company. No. 134,318; Aug. 24; v. 277; p. 781.
Trucks, Light motor-. Reo Motor Car Company. No. 134,322; Aug. 24; v. 277; p. 781.
Vinegar. Dixie Fruit Products Corporation. No. 134,232; Aug. 24; v. 277; p. 777.
Watches. A. W. Sproehule. No. 134,324; Aug. 24; v. 277; p. 781.
Woven, knitted, netted, &c., fabrics in the piece. Cheney Brothers. Nos. 134,305–8; Aug. 24; v. 277; p. 781.

ALPHABETICAL LIST OF LABELS.

"A Little Goes a Long Way." (For Preparation for Treatment of the Hair.) H. Evans. No. 21,996; Aug. 24; v. 277; p. 785.
"All-Size-Cap." (For Cloth Caps.) Fine & Levy. No. 21,997; Aug. 24; v. 277; p. 785.
"American Disinfectant." (For American Disinfectant.) P. A. Mandabach. No. 22,015; Aug. 24; v. 277; p. 785.
"Antiplasma Label." (For Malarial Medicine.) Malarial Specific Company, Inc. No. 22,014; Aug. 24; v. 277; p. 785.
"Big '6' Chocolate." (For Vanilla Sweet Chocolate.) Pennsylvania Chocolate Company. No. 22,026; Aug. 24; v. 277; p. 785.
"Bully Boy Cordial Apricot Flavor." (For a Non-Alcoholic Drink.) Southern Food Products Co. No. 22,031; Aug. 24; v. 277; p. 786.
"Cherry Tonic." (For a System-Tonic.) The Cherry Tone Medicine Co. Inc. No. 21,993; Aug. 24; v. 277; p. 785.
"Chocolate Covered Cherries." (For Chocolate Cherries.) Milwaukee Paper Box Company. No. 22,017; Aug. 24; v. 277; p. 785.
"Clem's Pure Paints." (For Ready-Mixed Paints.) Clem Lumber Co. No. 21,992; Aug. 24; v. 277; p. 785.
"Diffuselite." (For Paints.) The J. G. Wilson Corporation. No. 22,037; Aug. 24; v. 277; p. 786.
"Elasticap." (For Splice-Insulators for Electric Conductors.) The Elasticap Company. No. 21,995; Aug. 24; v. 277; p. 785.
"Every Bite a Delight." (For Fried Cakes and Cookies.) Grennan Cake Corporation. No. 22,004; Aug. 24; v. 277; p. 785.
"Flavorite Brand Apples." (For Apples.) University Heights Farms Co. No. 22,033; Aug. 24; v. 277; p. 786.
"Fox Trot Carbonated Laxative." (For Carbonated Laxative.) F. M. Fox & Co. No. 21,999; Aug. 24; v. 277; p. 785.
"Garden City Motor Oils." (For Lubricating-Oils.) Garden City Oil Co. No. 22,000; Aug. 24; v. 277; p. 785.
"Ginger Ale." (For Ginger-Ale.) Frank M. Fox & Co. No. 21,998; Aug. 24; v. 277; p. 785.
"Good Will Cravats." (For Cravats.) Gelles & Weissman. No. 22,001; Aug. 24; v. 277; p. 785.
"Graino." (For Soaps.) Graino Soaps Corporation. No. 22,002; Aug. 24; v. 277; p. 785.
"Great Generals." (For Cut Smoking-Tobacco and Cigars.) J. E. M. Wright. No. 22,039; Aug. 24; v. 277; p. 786.
"Hedges-Buck Co. Brand." (For Black Pepper.) Hedges-Buck Company. No. 22,005; Aug. 24; v. 277; p. 785.
"Hospital Carbolic Oil Soap." (For Carbolic-Oil Soap.) The J. T. Robertson Company. No. 22,027; Aug. 24; v. 277; p. 785.
"Iris." (For Cotton Thread.) Boston Thread Co. No. 21,988; Aug. 24; v. 277; p. 785.
"J. L. Hopkins & Co." (For Milled Crude Drugs.) J. L. Hopkins & Co. No. 22,008; Aug. 24; v. 277; p. 785.
"Jazz Hand Wash." (For Hand-Soap or Hand-Wash.) American Soap Company. No. 21,984; Aug. 24; v. 277; p. 785.
"La Belle Hair Net." (For Hair-Nets.) A. A. West. No. 22,035; Aug. 24; v. 277; p. 786.
"Lauritsen's Home Made Butter Scotch." (For Butter-Scotch.) Graphic Label Works. No. 22,003; Aug. 24; v. 277; p. 785.
"Leather Lac." (For Preparation for Refinishing Leather Articles.) The R. F. Johnston Paint Company. No. 22,009; Aug. 24; v. 277; p. 785.
"Life Belt." (For Coffee.) Kaffee Hag Corporation. No. 22,010; Aug. 24; v. 277; p. 785.
"Lion Brand, Fresh Whey Cheese." (For Cheese.) Sanna Company, Inc. No. 22,028; Aug. 24; v. 277; p. 785.
"Man-Hell Automatic Inhaler." (For Inhalers.) Frederick Heilman Company. No. 22,007; Aug. 24; v. 277; p. 785.
"Marine Paints." (For Paints.) Ocean Paint Works, Inc. No. 22,023; Aug. 24; v. 277; p. 785.
"Mermaid Paints." (For Paints.) Ocean Paint Works, Inc. No. 22,024; Aug. 24; v. 277; p. 785.
"Milk Chocolates." (For Milk Chocolates.) Milwaukee Paper Box Company. No. 22,020; Aug. 24; v. 277; p. 785.
"Milkmaid Bread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 22,021; Aug. 24; v. 277; p. 785.
"Nekco." (For California Kippered Sardines.) Nielsen & Kittle Canning Company, Ltd. No. 22,022; Aug. 24; v. 277; p. 785.
"Neutral." (For Cotton Thread.) Boston Thread Co. No. 21,989; Aug. 24; v. 277; p. 785.
"Orcico." (For Cigars.) The Orrison Cigar Co. No. 22,025; Aug. 24; v. 277; p. 785.
"Oxydene." (For a Disinfectant, Sterilizer, Germicide and Deodorant.) Lacteal Analytical Laboratories, Inc. No. 22,011; Aug. 24; v. 277; p. 785.
"Pagliacci." (For Macaroni.) Milwaukee Macaroni Co. No. 22,016; Aug. 24; v. 277; p. 785.
"Painting for Light." (For Paints.) The J. G. Wilson Corporation. No. 22,038; Aug. 24; v. 277; p. 786.
"Peanut Bar." (For Candies; namely "Peanut Bars.") Beech-Nut Packing Company. No. 21,986; Aug. 24; v. 277; p. 785.
"Pop's Peerless Polish." (For a Polish.) E. L. Hess. No. 22,006; Aug. 24; v. 277; p. 785.
"Prize Dominoes Pop Corn Confection." (For a Pop-Corn Confection.) The Baxter Candy Company. No. 21,985; Aug. 24; v. 277; p. 785.
"Pronto." (For Fire-Extinguishing Compound.) The Allen Corporation. No. 21,983; Aug. 24; v. 277; p. 785.
"Put-Over-All." (For Overalls.) The Wigwam Co. Inc. No. 22,036; Aug. 24; v. 277; p. 786.
"Red Top." (For Evaporated Milk.) T. C. Leedom. No. 22,012; Aug. 24; v. 277; p. 785.
"Rite Fit Trousers." (For Men's Trousers.) L. Zucker & E. Weinshel. No. 22,040; Aug. 24; v. 277; p. 786.
"Romar." (For Coffee.) Coffee Products Company. No. 21,994; Aug. 24; v. 277; p. 785.
"Seal-Fast." (For Repair Patches for Automobile Tubes.) Seal-Fast Mfg. Co. No. 22,029; Aug. 24; v. 277; p. 786.
"Smith's Hand-Made Candy." (For Candy.) E. A. Smith. No. 22,030; Aug. 24; v. 277; p. 786.
"Spicefield." (For Cotton Thread.) Boston Thread Co. No. 21,987; Aug. 24; v. 277; p. 785.
"The Ace." (For Caps, Sweaters, and Fancy Knit Goods.) The Lion Knitting Mills Co. No. 22,013; Aug. 24; v. 277; p. 785.
"The Bal Masque." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,019; Aug. 24; v. 277; p. 785.
"The Caswell Blend." (For Coffee.) G. W. Caswell Co. No. 21,991; Aug. 24; v. 277; p. 785.
"Thompson's." (For Pure Food Products.) J. R. Thompson Co. No. 22,032; Aug. 24; v. 277; p. 786.
"Twentieth Century Chocolates." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,018; Aug. 24; v. 277; p. 785.
"Victory Canning & Packing Cos. Brand." (For Canned Artichokes.) Victory Canning & Packing Company. No. 22,034; Aug. 24; v. 277; p. 786.
"Wild Hy-Ball." (For Non-intoxicating Beverages.) R. A. Brachvogel. No. 21,990; Aug. 24; v. 277; p. 785.

ALPHABETICAL LIST OF PRINTS.

"Drink Green River the Snappy Lime Drink." (For Non-Alcoholic Beverage—Namely, a Lime Drink.) Schoenhofer Company. No. 5,317; Aug. 24; v. 277; p. 786.

"Every Complexion Needs Soap." (For Soap.) The Palmolive Company. No. 5,308; Aug. 24; v. 277; p. 786.

"Gold Dust—a Real Help at Preserving Time." (For Washing-Powder.) The N. K. Fairbank Company. No. 5,294; Aug. 24; v. 277; p. 786.

"Make Your Own Ink." (For a Powdered Ink.) The Economy Ink Company. No. 5,293; Aug. 24; v. 277; p. 786.

"Nailing the Right Bower Every Time the Deck's Dealt." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,312; Aug. 24; v. 277; p. 786.

"Prince Albert the National Christmas Joy Smoke." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,313; Aug. 24; v. 277; p. 786.

"Pure as Gold Transparent as Truth." (For Kirk's Jap Rose Soap.) James S. Kirk & Company. No. 5,305; Aug. 24; v. 277; p. 786.

"Re-Incarnation of Beauty." (For Soap.) The Palmolive Company. No. 5,310; Aug. 24; v. 277; p. 786.

"Rely on Reliance." (For Work-Shirts.) Reliance Mfg. Company. No. 5,311; Aug. 24; v. 277; p. 786.

"Skookum America's Supreme Apples Who Can Resist Them?" (For Apples.) Northwestern Fruit Exchange. No. 5,307; Aug. 24; v. 277; p. 786.

"Talk About Handing Yourself a Birthday-Blow-Out with Bells on." R. J. Reynolds Tobacco Campany. No. 5,316; Aug. 24; v. 277; p. 786.

"Taking Awkward Angles Out of the Early Christmas Morning Atmosphere." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,315; Aug. 24; v. 277; p. 786.

"The New 1920 Haynes Roadster." (For Automobiles.) The Haynes Automobile Company. No. 5,298; Aug. 24; v. 277; p. 786.

"The New 1920 Haynes Roadster." (For Automobiles.) The Haynes Automobile Company. No. 5,304; Aug. 24; v. 277; p. 786.

"The New 1920 Haynes Touring Car." (For Automobiles.) The Haynes Automobile Company. No. 5,295; Aug. 24; v. 277; p. 786.

"The New 1920 Haynes Touring Car." (For Automobiles.) The Haynes Automobile Company. No. 5,302; Aug. 24; v. 277; p. 786.

"The New Series Haynes Brougham." (For Automobiles.) The Haynes Automobile Company. Nos. 5,296–7; Aug. 24; v. 277; p. 786.

"The New Series Haynes Coupé." (For Automobiles.) The Haynes Automobile Company. No. 5,299; Aug. 24; v. 277; p. 786.

"The New Series Haynes Coupé." (For Automobiles.) The Haynes Automobile Company. No. 5,301; Aug. 24; v. 277; p. 786.

"The New Series Haynes Suburban." (For Automobiles.) The Haynes Automobile Company. No. 5,300; Aug. 24; v. 277; p. 786.

"The New Series Haynes Suburban." (For Automobiles.) The Haynes Automobile Company. No. 5,303; Aug. 24; v. 277; p. 786.

"The Way to Rose Complexions." (For Soap.) The Palmolive Company. No. 5,309; Aug. 24; v. 277; p. 786.

"You're Wise-o That You've Been Checking Smoke Sport." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,314; Aug. 24; v. 277; p. 786.

"You Will Not Regret It—If You Condulet it." (For Condulets.) Crouse-Hinds Co. No. 5,292; Aug. 24; v. 277; p. 786.

"Winter's Chilly Temperature Does Not Affect Nurex." (For Tabbing Compounds.) The Lee Hardware Co. No. 5,306; Aug. 24; v. 277; p. 786.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Apparel, Article of wearing. Frolaset Corset Company, No. 121,467; Aug. 24; v. 277; p. 757.

Apparel, Infants' wearing. A. Kummel. No. 132,083; Aug. 24; v. 277; p. 768.

Automobile-locks for steering-posts. Perry Auto Lock Company. No. 119,247; Aug. 24; v. 277; p. 755.

Automobiles, trailers, &c. Southern Motor Manufacturing Association. No. 134,040; Aug. 24; v. 277; p. 772.

Babbitt metal, brass ingots, &c. L. A. Cohn & Bro. No. 131,146; Aug. 24; v. 277; p. 766.

Belts for supporting outer garments. The Marathon Tire & Rubber Company. No. 135,336; Aug. 24; v. 277; p. 776.

Beverage, Cereal. Ellert Products Co. No. 132,780; Aug. 24; v. 277; p. 769.

Beverage made of malt and cereals. Adam Scheidt Beverage Company. Nos. 124,536–7; Aug. 24; v. 277; p. 758.

Beverages and syrups and extracts for manufacturing same. The Ver-Vac Company. No. 133,641; Aug. 24; v. 277; p. 771.

Beverages and syrups for the production of same. Southern Beverage Company. No. 133,801; Aug. 24; v. 277; p. 771.

Biscuits. Bishop & Company. No. 134,455; Aug. 24; v. 277; p. 774.

Bloomers. D. W. Shoyer & Co. No. 133,561; Aug. 24; v. 277; p. 771.

Bolt-operating machines, pulley-blocks, hoists, Automatic. Yale & Towne Mfg. Co. No. 131,055; Aug. 24; v. 277; p. 766.

Bolt-operating machines, pulley-blocks, hoists, Automatic. The Yale & Towne Mfg. Co. No. 131,057; Aug. 24; v. 277; p. 766.

Boot and shoe heels, Plugs or inserts for. Tel-Til-Tip Co. No. 126,495; Aug. 24; v. 277; p. 759.

Boxes, Paper and fiber. Lawrence Paper Manufacturing Company. No. 128,393; Aug. 24; v. 277; p. 760.

Binders, reapers, -mowers, rakes, &c. International Harvester Company. No. 129,720; Aug. 24; v. 277; p. 762.

Braid-stitching, soutache, elastic, belting, &c. Pocahontas Braid Corporation. No. 134,141; Aug. 24; v. 277; p. 773.

Bricks, Refractory. National Carbon Company. No. 130,842; Aug. 24; v. 277; p. 765.

Brisling and slid. The Oversea Export Co. No. 129,654; Aug. 24; v. 277; p. 762.

Brooms. The Morey Mercantile Company. No. 131,225; Aug. 24; v. 277; p. 767.

Brooms. Re-Filit Broom Company. No. 128,743; Aug. 24; v. 277; p. 761.

Building material, Steel. Newport Rolling Mill Co. No. 130,912; Aug. 24; v. 277; p. 765.

Burial Caskets and cases therefor. J. S. Waterman & Sons. No. 131,365; Aug. 24; v. 277; p. 767.

Calculating-machines. C. Merryman. No. 129,733; Aug. 24; v. 277; p. 762.

Candy. Western Martha Washington Candies Co. No. 133,389; Aug. 24; v. 277; p. 771.

Canned fruits and vegetables. California Co-Operative Canneries. No. 131,776; Aug. 24; v. 277; p. 767.

Canned goods, vinegar, olives, &c. California Packing Corporation. No. 109,744; Aug. 24; v. 277; p. 753.

Canned goods, pickles, olives, &c. John Blaul's Sons Co. No. 132,161; Aug. 24; v. 277; p. 768.

Canned vegetables. Vidalia Grocery Company. No. 122,197; Aug. 24; v. 277; p. 757.

Carving sets. The Robeson Cutlery Co. No. 134,093; Aug. 24; v. 277; p. 772.

Celluloid frames, rims, nose-pieces, and parts of eyeglasses. Optical Products Corporation. No. 132,314; Aug. 24; v. 277; p. 769.

Cement, Roof-. Kling-Tite Products Company. No. 132,794; Aug. 24; v. 277; p. 769.

Churns, cream-separators, &c. Bessire & Company. No. 122,961; Aug. 24; v. 277; p. 757.

Cigars. C. J. Spietz. No. 130,930; Aug. 24; v. 277; p. 765.

Cigars and cigarettes. D. S. Saqui. No. 132,203; Aug. 24; v. 277; p. 768.

Cleaning compound. United Drug Company. No. 134,441; Aug. 24; v. 277; p. 774.

Cleaning preparation for white shoes, clothes, &c. W. A. Shabel. No. 128,296; Aug. 24; v. 277; p. 760.

Coats and suits, Ladies'. Edward Kolbert & Sons. No. No. 129,636; Aug. 24; v. 277; p. 762.

Coats, cloaks, and suits, Ladies'. H. Goldberg. No. 125,656; Aug. 24; v. 277; p. 758.

Coats, vests, trousers, top and overcoats, Men's. Z. Solomon. No. 121,699; Aug. 24; v. 277; p. 757.

Collars, cuffs, shirts, shirt-fronts. A. Rice & Company. No. 130,117; Aug. 24; v. 277; p. 763.

Collar-holders. Freeman-Daughaday Co. No. 118,261; Aug. 24; v. 277; p. 754.

Conveyers. Guarantee Construction Company. No. 129,258; Aug. 24; v. 277; p. 761.

Cords, Braided. Silver Lake Company. No. 130,982; Aug. 24; v. 277; p. 766.

Cream separators and centrifugal machinery. The Sharples Separator Co. No. 121,418; Aug. 24; v. 277; p. 757.

Cribs and high chairs, tables, desks, &c., Children's. Hitz, Jacobs & Company. No. 120,456; Aug. 24; v. 277; p. 756.

Cultivators and separate parts thereof. International Harvester Company. No. 134,315; Aug. 24; v. 277; p. 773.

Custard-powder, sponge-cake flour, &c. A. S. Price & Co. No. 116,897; Aug. 24; v. 277; p. 754.

Cutlery, machinery, and tools. E. James. No. 131,734; Aug. 24; v. 277; p. 767.

Cutting-tools for metal-working machines. The Bullard Machine Tool Co. No. 134,179; Aug. 24; v. 277; p. 773.

Dress-shields. J. J. Beyerle Mfg. Co. No. 132,292; Aug. 24; v. 277; p. 769.

Dresses and coats, Ladies'. Louis Katzman, Inc. No. 129,980; Aug. 24; v. 277; p. 763.

Dressings, olive-naise, &c., Russian and salad. S. Mervis. No. 125,967; Aug. 24; v. 277; p. 759.

Drills, reamers, lathes, &c. M. Wardlow. No. 116,117; Aug. 24; v. 277; p. 754.

Elevating, conveying, and power-transmission machinery. The Union Chain & Manufacturing Company. No. 119,782; Aug. 24; v. 277; p. 755.

Explosives. E. I. du Pont de Nemours & Company. No. 119,156; Aug. 24; v. 277; p. 755.

Eyeglasses and spectacle frames, Non-metallic. New Jersey Optical Co. No. 98,341; Aug. 24; v. 277; p. 753.

Feed, Stock. Great Western Milling Company. No. 130,960–1; Aug. 24; v. 277; p. 766.

Fiber-decorticating machinery. Prieto Machine Company. No. 134,325; Aug. 24; v. 277; p. 773.

Fish, Dried cod-. Knapp & Van Nostrand. No. 132,254; Aug. 24; v. 277; p. 768.

Flour, Wheat-. American Trading Co. No. 134,343; Aug. 24; v. 277; p. 773.

Flour, Wheat-. Charleston Milling Company. No. 128,653; Aug. 24; v. 277; p. 761.

Flour, Wheat-. Miller Flour Mills. No. 134,081; Aug. 24; v. 277; p. 772.

Food and cakes for stock-feeding, fats and oils for food, Cattle. Naamlooze Vennootschap Anton Jurgens' Margarinefabrieken. No. 117,891; Aug. 24; v. 277; p. 754.

Food ingredients. Benchley Brothers. No. 127,236; Aug. 24; v. 277; p. 759.

Foods and food ingredients. A. Engelhard & Sons Company. No. 130,666; Aug. 24; v. 277; p. 764.

Foods, Animal. J. B. Rosefield. No. 134,527; Aug. 24; v. 277; p. 774.

Furniture, &c., polishing material. P. Rosenzweig. No. 122,614; Aug. 24; v. 277; p. 757.

Game-board. G. Trippe. No. 104,534; Aug. 24; v. 277; p. 753.

Garments, Outer. Stanley E. Selonick & Co. No. 131,043; Aug. 24; v. 277; p. 766.

Garters and hose-supporters. A. Stein & Company. No. 134,488; Aug. 24; v. 277; p. 774.

Glazing, roofing, and calking compounds, &c. The Quality Brands Company. No. 133,227; Aug. 24; v. 277; p. 770.

Gloves. T. H. Hall. No. 117,137; Aug. 24; v. 277; p. 754.

Gloves and underwear, Silk. Mohawk Silk Fabric Co. No. 132,256; Aug. 24; v. 277; p. 769.

Gloves, Cotton. Wells-Lamont Manufacturing Company. No. 120,335; Aug. 24; v. 277; p. 756.

Grape-juice, lemon-soda, birch-beer, &c. Serv-Us Grocery Products Corporation. No. 134,037; Aug. 24; v. 277; p. 772.

Grinding-machines, Metal-working. Bryant Chucking Grinder Company. No. 128,829; Aug. 24; v. 277; p. 761.

Gum, Chewing-. The Shelby Supply and Manufacturing Company. No. 111,190; Aug. 24; v. 277; p. 753.

Hams, bacon, lard, &c. Arnold Brothers. No. 127,419; Aug. 24; v. 277; p. 759.

Hatbands, skirt and dress beltings, &c. The Owl Specialty Co. No. 134,846; Aug. 24; v. 277; p. 775.

Hats, Ladies'. Engle & Zelner. No. 126,311; Aug. 24; v. 277; p. 759.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Heat regulating devices, Electric. Electric Controller Co. No. 132,232; Aug. 24; v. 277; p. 768.
Heaters, transformers, &c., Electric. Empire Transformer Company. No. 129,543; Aug. 24; v. 277; p. 761.
Heel and sole edge finishing machines and parts thereof. United-Xpedite Finishing Company. No. 134,047; Aug. 24; v. 277; p. 772.
Incubators and brooders. The Buckeye Incubator Company. No. 134,555; Aug. 24; v. 277; p. 774.
Iron, steels, &c. John Kenyon & Co. (Sheffield). No. 119,896; Aug. 24; v. 277; p. 755.
Iron, steels, &c. John Kenyon & Co. (Sheffield). No. 119,901; Aug. 24; v. 277; p. 755.
Iron, steels, &c. John Kenyon & Co. (Sheffield). No. 119,903; Aug. 24; v. 277; p. 755.
Ironing machines, Laundry-. Hurley Machine Company. No. 130,591; Aug. 24; v. 277; p. 764.
Jacks, Lifting-. The Pierce-Arrow Motor Car Company. No. 134,428; Aug. 24; v. 277; p. 773.
Jewelry, Molds, and parts used in casting. Everlast Ring Cast Company. No. 133,730; Aug. 24; v. 277; p. 771.
Knitted and woven wearing-apparel. Dr. Jaeger's Sanitary Woolen System. No. 130,368; Aug. 24; v. 277; p. 764.
Lath, Metal. The Youngstown Pressed Steel Company. No. 134,993; Aug. 24; v. 277; p. 775.
Life-preservers and swimming-floats. International Cork Company. No. 126,124; Aug. 24; v. 277; p. 759.
Lumber, Finished. American Pitch Pine Export Company. 134,049; Aug. 24; v. 277; p. 772.
Lumber, Pine and cypress. Manasota Lumber Corporation. No. 123,547; Aug. 24; v. 277; p. 757.
Lumber, Rough. Foxley Stave & Lumber Co. Nos. 135,362–3; Aug. 24; v. 277; p. 776.
Machines and tools. Nestor Manufacturing Co. No. 114,027; Aug. 24; v. 277; p. 753.
Malt extract. P. Ballantine & Sons. Nos. 133,198–9; Aug. 24; v. 277; p. 770.
Measuring and price-computing machines, Cloth and ribbon combination. Grand Rapids Show Case Company. No. 130,366; Aug. 24; v. 277; p. 764.
Measuring and scientific appliances. Henry Hughes & Son. No. 119,975; Aug. 24; v. 277; p. 756.
Meat and sauce extracts, soup preparations, &c. Vitamon A/S. No. 130,735; Aug. 24; v. 277; p. 765.
Metal and plain-metal sheets, Corrugated. Newport Rolling Mill Co. No. 130,911; Aug. 24; v. 277; p. 765.
Milk, Cultured. M. C. Reynolds. No. 127,934; Aug. 24; v. 277; p. 760.
Milking machinery. The De Laval Separator Company. No. 132,775; Aug. 24; v. 277; p. 769.
Mortar, lime, &c. Léukolith, G. m. b. H. No. 134,513; Aug. 24; v. 277; p. 774.
Mops. Massasoit Manufacturing Company. No. 129,234; Aug. 24; v. 277; p. 761.
Mucilage, Stick-. Stickalene Company. No. 128,472; Aug. 24; v. 277; p. 760.
Nuts, Frosted. M. M. Burton. No. 124,467; Aug. 24; v. 277; p. 758.
Oil, Canned olive-. Cavanna & Company. No. 134,107; Aug. 24; v. 277; p. 772.
Oils and fats, Edible. De Bruyn, Limited. No. 131,946; Aug. 24; v. 277; p. 768.
Oleomargarin. Wm. J. Moxley, Inc. No. 114,701; Aug. 24; v. 277; p. 754.
Paints. H. H. Hall. No. 131,732; Aug. 24; v. 277; p. 767.
Paints and painters' materials. Katzenbach & Bullock Co. No. 130,597; Aug. 24; v. 277; p. 764.
Paints, Ready-mixed. H. H. Hall. No. 131,731; Aug. 24; v. 277; p. 767.
Paints, varnishes, and stains. L. Born & Son. No. 123,604; Aug. 24; v. 277; p. 757.
Paints, wood-stains, varnishes. Brandram-Henderson Limited. No. 131,554; Aug. 24; v. 277; p. 767.
Pamphlets, circulars, &c. Duncan Lumber Company. No. 128,202; Aug. 24; v. 277; p. 760.
Phonographic reproducers. M. McTighe Company. No. 133,018; Aug. 24; v. 277; p. 770.
Pickles, vinegars, &c., Mixed. Maine Pickling Co. No. 130,147; Aug. 24; v. 277; p. 763.
Picture screens, Moving. The Ludcke Picture Screen Co. No. 131,339; Aug. 24; v. 277; p. 767.
Pin for men's soft collars, Bar-. John S. Sampson & Son. No. 128,371; Aug. 24; v. 277; p. 760.
Pipe-coverings, roofing-shingles, &c. Stowell Manufacturing Co. No. 130,852; Aug. 24; v. 277; p. 765.
Pipes, cigar and cigarette holders, Tobacco-. Kapp & Peterson. No. 129,896; Aug. 24; v. 277; p. 763.
Plows, cultivators, &c. La Crosse Plow Company. No. 120,490; Aug. 24; v. 277; p. 756.
131,165; Aug. 24; v. 277; p. 767.
Plug-caps, Convertible. Harvey Hubbell, Inc. Nos. 134,585–6; Aug. 24; v. 277; pp. 774–5.
Plumbing fixtures and supplies. The McRae & Roberts Co. No. 129,902; Aug. 24; v. 277; p. 763.
Polish for varnished, waxed, &c., surfaces. The Varnitone Manufacturing Company. No. 132,134; Aug. 24; v. 277; p. 768.
Posters, display-cards, &c. Tullograph Art Company. No. 131,510; Aug. 24; v. 277; p. 767.
Publication, Monthly. The Searchlight Publishing Company. No. 133,990; Aug. 24; v. 277; p. 772.
Pulleys, Window-. Ideal Window Pulley Corporation. No. 133,542; Aug. 24; v. 277; p. 771.
Pumps, &c. Kellogg Manufacturing Co. No. 130,189; Aug. 24; v. 277; p. 763.
Railway-spikes. American Spike Company. No. 130,353; Aug. 24; v. 277; p. 763.
Razors and stroppers, Safety-. Collins Safety Razor Company. No. 129,829; Aug. 24; v. 277; p. 762.
Reamers. Kor-Doh Manufacturing Corporation. No. 132,538; Aug. 24; v. 277; p. 769.
Roofing and roofing-cements, Felt. Texas Company. No. 119,480; Aug. 24; v. 277; p. 755.
Root-beer, ginger-ale, apple cider, &c. United Beverage Company. No. 132,830; Aug. 24; v. 277; p. 769.
Rubber soles and heels. Kleistone Rubber Co. Nos. 130,421–2; Aug. 24; v. 277; p. 764.
Rubberized cloth and blankets made therefrom. United States Rubber Company. No. 125,637; Aug. 24; v. 277; p. 758.
Sheets, plates, and castings made from metal alloys. Supplee-Biddle Hardware Company. Nos. 135,022–7; Aug. 24; v. 277; pp. 775–6.
Shoes. Maryland Shoe Corporation. No. 129,562; Aug. 24; v. 277; p. 762.
Shoes, Boys' leather. A. Starr Best, Inc. No. 118,824; Aug. 24; v. 277; p. 755.
Shoes, Children's. Brown Shoe Company. No. 119,624; Aug. 24; v. 277; p. 755.
Snap-fasteners. The Guarantee Specialty Manufacturing Company. No. 133,878; Aug. 24; v. 277; p. 771.
Soap. Société Anonyme des Savons de Marseille. No. 125,730; Aug. 24; v. 277; p. 759.
Soap. A. W. Tarson. No. 133,717; Aug. 24; v. 277; p. 771.
Soap in cans. The Wink-O Products Co. No. 134,400; Aug. 24; v. 277; p. 773.
Soap powder, &c. The Red Ball Company. No. 134,432; Aug. 24; v. 277; p. 774.
Soap-powder dispensers. Re-Be Soap Co. No. 127,521; Aug. 24; v. 277; p. 759.
Spaghetti, macaroni, &c. Fortune Products Company. No. 127,804; Aug. 24; v. 277; p. 760.
Spaghetti, noodles, &c. Pan American Manufacturing Co. No. 132,881; Aug. 24; v. 277; p. 769.
Sprinkler systems for lawns and gardens. P. Sattelkau. No. 124,672; Aug. 24; v. 277; p. 758.
Steel. Spear & Jackson. Nos. 120,972–3; Aug. 24; v. 277; p. 756.
Steel and anvils. Tool, high-speed, &c. M. Wardlow. No. 116,116; Aug. 24; v. 277; p. 754.
Steel and carbon twist-drill steel, Drill-. Ludlum Steel Company. No. 133,271; Aug. 24; v. 277; p. 770.
Steel, Ball-bearing. Ludlum Steel Company. No. 133,268; Aug. 24; v. 277; p. 770.
Steel, Ball-bearing. Ludlum Steel Company. No. 133,272; Aug. 24; v. 277; p. 770.
Steel, Magnet-. Ludlum Steel Company. No. 133,265; Aug. 24; v. 277; p. 770.
Steel, Non-corrosive. Ludlum Steel Company. No. 133,270; Aug. 24; v. 277; p. 770.
Suitcases and traveling bags. W. R. Dickson. No. 131,107; Aug 24; v. 277; p. 766.
Suits, rompers, middy-blouses, Wash-. J. B. Branch. No. 111,090; Aug. 24; v. 277; p. 753.
Swings and suspending-hangers. The Au-To Play Goods Company. No. 116,435; Aug. 24; v. 277; p. 754.
Syrup of malt and hops, Non-alcoholic. United States Syrup Co. No. 129,687; Aug. 24; v. 277; p. 762.
Syrup, Table-. Bliss Syrup Refining Co. No. 130,512; Aug. 24; v. 277; p. 764.
Syrups, flavors, and flavoring extracts for soft drinks. H. J. Stein. No 133,002; Aug. 24; v. 277; p. 770.
Toilet-seat covers, Flexible. Wagner Manufacturing Company. No. 133,645; Aug. 24; v. 277; p. 771.
Toy vehicle. H. G. Bishop. No. 123,837; Aug. 24; v. 277; p. 758.
Toys, Musical. L. V. Aronson. No. 130,943; Aug. 24; v. 277; p. 766.
Trucks and trailers, Motor-. Illinois Auto Truck Co. No. 118,148; Aug. 24; v. 277; p. 754.
Tubes and pipes. Supplee-Biddle Hardware Company. Nos. 128,568–73; Aug. 24; v. 277; pp. 760–1.
Valve-spring lifters. K-D Manufacturing Co. No. 132,253; Aug. 24; v. 277; p. 768.
Valves carried on automobile-radiator caps, Indicator-. G. B. Hutchings. No. 129,892; Aug. 24; v. 277; p. 762.
Valves for shower-baths. W. G. Solomon. No. 124,013; Aug. 24; v. 277; p. 758.
Varnish or polish for furniture, automobiles, &c. G. Tuschel. No. 119,921; Aug. 24; v. 277; p. 756.
Waists and garters, Combined. A. Stein & Company. No. 134,489; Aug. 24; v. 277; p. 774.
Watches and watch-movements. R. A. Gsell. No.
Wine, Imitation. C. L. Beardsley. No. 134,177; Aug. 24; v. 277; p. 773.
Wrenches. Romaro Machine & Tool Co. No. 134,326; Aug. 24; v. 277; p. 773.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 24, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 46: 1,350,371
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150— 37: 1,350,980
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152— 13: 1,350,995
14: 1,350,484
27: 1,350,779
32: 1,350,370
53: 1,350,648
54: 1,350,307
153— 53: 1,350,998
154— 1: 1,350,410
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155— 22: 1,350,401
82: 1,350,669
156— 19: 1,350,846
24: 1,350,336
1,350,623
36: 1,350,400
157— 1: 1,350,118
1,350,524
158— 46.5: 1,350,808
91: 1,350,466
1,350,917
164— 17.5: 1,351,010
98: 1,351,002
166— 10: 1,350,553
19: 1,350,348
167— 3: 1,350,304
5: 1,350,843
9: 1,350,542
170— 163: 1,350,312
171— 97: 1,350,426
1,350,895
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119: 1,350,899
1,350,920
265: 1,350,485
312: 1,350,921
172— 179: 1,350,937
240: 1,350,540
173— 311: 1,350,936
318: 1,350,925
355: 1,350,446
175— 265: 1,350,734
294: 1,350,300
320: 1,350,334
355: 1,350,447
375: 1,350,369
176— 36: 1,350,907
177— 326: 1,350,328
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178— 62: 1,350,790
179— 1: 1,350,922
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180— 9.2: R. 14,938
16: 1,350,889
53: 1,350,347
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57: 1,350,460
71: 1,350,642
77: 1,350,450
181— 5: 1,350,762
24: 1,350,767
39: 1,350,576
5: 1,350,309
6: 1,350,559
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50: 1,350,391
91: 1,350,721
103: 1,350,643
185— 45: 1,350,754
188— 5: 1,350,726
72: 1,351,008
89: 1,350,942
112: 1,350,318
259: 1,350,985
189— 77: 1,350,544
190— 57: 1,350,649
191— 22: 1,350,856
193— 2: 1,350,774
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194— 94: 1,350,742
197— 5: 1,350,398
6.4: 1,350,428
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127: 1,250,681
199— 64: 1,350,793
200— 15: 1,350,688
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203— 6: 1,350,627
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211— 2: 1,350,874
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212— 145: 1,350,992
213— 42: 1,350,436
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214— 1: 1,350,755
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217— 1: 1,350,909
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219— 4: 1,350,572
219— 8: 1,350,317
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35: 1,350,976
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220— 3: 1,350,666
24: 1,350,832
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97: 1,350,673
100: 1,350,517
115: 1,350,739
222— 4: 1,350,534
7: 1,350,750
223— 30: 1,350,687
224— 7: 1,350,390
29: 1,350,372
1,350,797
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226— 84: 1,350,405
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227— 9: 1,350,708
229— 15: 1,350,744
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230— 2: 1,350,396
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232— 1: 1,350,397
232— 40: 1,350,770
234— 10: 1,350,705
27.5: 1,350,355
235— 59: 1,350,387
61: 1,350,620
69: 1,350,727
91: 1,350,850
237— 1: 1,350,968
238— 4: 1,350,872
7: 1,350,760
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59: 1,350,381
91: 1,350,420
106: 1,350,416
237: 1,350,783
327: 1,350,321
329: 1,350,689
330: 1,350,676
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240— 1: 1,350,295
2: 1,350,916
8.5: 1,350,837
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41: 1,350,308
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45.2: 1,350,811
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241— 8: 1,350,915
242— 43.6: 1,350,905
112: 1,350,946
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244— 2: 1,350,947
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246— 9: 1,350,291
182: 1,350,476
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313: 1,350,639
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247— 1: 1,350,658
248— 8: 1,350,423
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249— 48: 1,350,611
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251— 6: 1,350,989
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119: 1,350,610
134: 1,350,885
145: 1,350,799
253— 189: 1,350,724
254— 1: 1,350,970
76: 1,350,994
103: 1,350,663
255— 72: 1,351,003
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257— 236: 1,350,320
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259— 134: 1,350,823
261— 34: 1,350,322
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262— 30: 1,350,706
263— 15: 1,350,624
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265— 42: 1,350,408
266— 3: 1,350,618
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267— 22: 1,350,313
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66: 1,350,674
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272— 1,350,488
274— 9: 1,350,763
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18: 1,350,818
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275— 6: 1,350,296
276— 3: 1,350,707
277— 3: 1,350,407
16: 1,350,438
57: 1,350,302
67: 1,350,385
279— 97: 1,350,311
114: 1,350,746
280— 8: 1,350,929
33.8: 1,350,962
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61: 1,350,527
95: 1,350,451
97: 1,350,462
148: 1,350,780
281— 38: 1,350,733
283— 5: 1,350,914
66: 1,350,854
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285— 114: 1,350,615
287— 11: 1,350,652
92: 1,350,425
290— 12: 1,350,424
30: 1,350,437
47: 1,350,703
292— 233: 1,350,698
247: 1,350,713
293— 55: 1,350,406
294— 23: 1,350,331
33: 1,350,641
87: 1,350,984
115: 1,350,675
295— 8.5: 1,350,813
19: 1,350,738
296— 24: 1,350,601
93: 1,350,883
139: 1,350,471
299— 78: 1,350,499
301— 66: 1,350,827
101: 1,350,528
302— 5: 1,350,847
305— 12: 1,350,457

BANGOR PUBLIC
NOV 8 1920
LIBRARY

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED DURING THE MONTH OF AUGUST, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A.-C. Manufacturing Company. (See Sebastian, A. A., and Capes, assignors.)
A. G. A. Railway Light & Signal Co. (See Medén, Elof H., assignor.)
A/S Mekano. (See Schepeler, Herman A., assignor.)
Abbott, Arthur, Toronto, Ontario, Canada. Tableware-drainer. No. 1,350,351; Aug. 24; v. 277; p. 603.
Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heating unit. No. 1,350,910; Aug. 24; v. 277; p. 711.
Abbott, F. J., Jr. (See Vance, Arlyn T.)
Abbott Incorporated. (See Abbott, William E., assignor.)
Abbott, Tom, Pontyclun, Llantrisant, Wales. Means for oiling the wheels of tramway and like vehicles. No. 1,351,196; Aug. 31; v. 277; p. 830.
Abbott, William E., assignor to Abbott Incorporated, Bend, Oreg. Check-book attachment. No. 1,350,203; Aug. 17; v. 277; p. 528.
Abelson, Abraham, Brooklyn, N. Y. Restaurant-service device. No. 1,349,647; Aug. 17; v. 277; p. 421.
Accounting Devices Company. (See Potwin, George H., assignor.)
Ackermann, Oscar A., St. Paul, Minn. Stock-car. No. 1,349,747; Aug. 17; v. 277; p. 441.
Acme Oil & Drill Company. (See Pace, Jefferson D., assignor.)
Adams, Arthur J., Milwaukee, Wis. Battery-plate. No. 1,348,467; Aug. 3; v. 277; p. 66.
Adams, Edward M., assignor to M. H. Petigor, New York, N. Y. Dispensing-pump and mixer. No. 1,349,543; Aug. 10; v. 277; p. 328.
Adams, Horace T., and H. Altmayer, San Francisco, Calif. Split pulley. No. 1,351,197; Aug. 31; v. 277; p. 830.
Adams, James, R., Somerset, Pa. Wheel-hub and bearing. No. 1,350,851; Aug. 24; v. 277; p. 700.
Adams & Westlake Company, The. (See Krohn, Nels, assignor.)
Adams, William A. (See Skublin, Charles P., assignor.)
Adams-Williams Manufacturing Corporation. (See Bresin, Louis, assignor.)
Adelson, Samuel L., Chicago, Ill. Combination-shaker. No. 1,348,468; Aug. 3; v. 277; p. 66.
Adelson, Samuel L., New York, N. Y. Protective socket. No. 1,348,620; Aug. 3; v. 277; p. 95.
Adelsperger, Dow L., assignor to The Bauer Brothers Company, Springfield, Ohio. Method of and apparatus for treating cotton-seed. No. 1,349,034; Aug. 10; v. 277; p. 227.
Agee, Arthur E. (See Sharpnack, M. C., and Crisman, assignors.)
Ahlbom, Oscar W., Salt Lake City, Utah. Bicycle-sled. No. 1,350,952; Aug. 17; v. 277; p. 499.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and plumbing system. (Reissue.) No. 14,935; Aug. 24; v. 277; p. 781.
Alles, Adrian S., assignor of sixty per cent. to J. H. Taft, Chicago, Ill. Auxiliary safe-lock. No. 1,350,766; Aug. 24; v. 277; p. 685.
Ainsworth, William A., Utica, N. Y. Dyeing-machine. No. 1,348,974; Aug. 10; v. 277; p. 215.
Aktiebolaget Svenska Kullager-Fabriken. (See Palmgren, Nils A., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Olsson, Nils J., assignor.)
Aktiebolaget Svenska Kullargerfabriken. (See Rydbeck, Patrik S., assignor.)
Albee, Honestus M., Nutley, N. J. Machine for carving, routing, and similar operations. No. 1,349,250; Aug. 10; v. 277; p. 271.
Albrecht, Albert W., St. Louis, Mo. Collapsible burial-casket. No. 1,349,799; Aug. 17; v. 277; p. 451.
Albrecht, Hermen E., What Cheer, Iowa. Gambrel. No. 1,350,632; Aug. 24; v. 277; p. 659.
Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Tractor. No. 1,349,249; Aug. 10; v. 277; p. 270.
Aldenbruck, Herbert G., and L. E. Webber, St. Paul, Minn.; said Webber assignor to said Aldenbruck. Rolling device for scrubbing, &c. No. 1,348,683; Aug. 3; v. 277; p. 107.
Aldendorff, Fritz, Wilmersdorf, Berlin, Germany. Switching apparatus. No. 1,348,835; Aug. 3; v. 277; p. 135.
Alder, Frederick T., Mt. Vernon, N. Y. Vehicle wheel and spoke. No. 1,349,035; Aug. 10; v. 277; p. 227.
Alderson, William, Kimberley, South Africa. Construction of ships. No. 1,349,800; Aug. 17; v. 277; p. 451.
Alexander, John E., Port Edwards, Wis. Cylinder for paper-drying machines. No. 1,348,469; Aug. 3; v. 277; p. 66.
Alexander, Roy A., Bellingham, Wash. Varnished-surface burnisher. No. 1,350,537; Aug. 24; v. 277; p. 640.
Alexander, Verne P., Chicago, Ill. Work-clamp. No. 1,351,148; Aug. 31; v. 277; p. 820.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Wireless signaling system. No. 1,350,911; Aug. 24; v. 277; p. 711.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Radioreceiving system. No. 1,350,912; Aug. 24; v. 277; p. 711.
Allen, Alida E., Brooklyn, N. Y. Oil-absorbing device. No. 1,351,601; Aug. 31; v. 277; p. 911.
Allen, Charles, El Paso, Tex. Slime-pulp thickener. No. 1,350,204; Aug. 17; v. 277; p. 529.
Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Self-propelled vehicle. No. 1,349,997; Aug. 17; v. 277; p. 488.
Allen, Guy L., assignor of one-half to J. G. Clark, Boulder, Colo. Vibratory movement. No. 1,348,770; Aug. 3; v. 277; p. 123.
Allen, Herbert I., and K. R. Fox, assignors to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,349,597; Aug. 17; v. 277; p. 411.
Allen, Joseph C., *et al.* (See Cox, A., and Evans.)
Allen, Lewis H., West Springfield, Mass. Sterilising device. No. 1,348,837; Aug. 10; v. 277; p. 189.
Allen, Marion, *et al.* (See Davis, Claude B., assignor.)
Allen, S. L., & Co. (See Allen, Charles J., assignor.)
Allis-Chalmers Manufacturing Company. (See Wilkinson, Nathan, assignor.)
Allison, Carl F., Woodlawn, Pa. Solder composition. No. 1,349,648; Aug. 17; v. 277; p. 421.
Allith Prouty Company. (See Rhines, George, assignor.)
Allsworth, Robert I., New York, N. Y. Wall construction. No. 1,350,633; Aug. 24; v. 277; p. 659.
Almetal Manufacturing Company, The. (See Nunn, Nevvens N., assignor.)
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,351,317; Aug. 31; v. 277; p. 854.
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,351,318; Aug. 31; v. 277; p. 855.
Alquist, Karl, Schenectady, N. Y. Gearing for double-rotation turbines. No. 1,351,319; Aug. 31; v. 277; p. 855.
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,351,320; Aug. 31; v. 277; p. 855.
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,351,321; Aug. 31; v. 277; p. 855.
Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,351,322; Aug. 31; v. 277; p. 856.
Alsatian Machine Company. (See Tunstall, Harry, assignor.)
Alstad, George C., Chicago, Ill. Compressed-air power-drive. No. 1,349,036; Aug. 10; v. 277; p. 227.
Alsten, Alfred O., assignor of one-third to F. A. Sanderson and one-third to A. L. Johnson, Worcester, Mass. Jack. No. 1,349,801; Aug. 17; v. 277; p. 451.
Altaffer, John F., Aline, Okla. Rail-tie. No. 1,349,310; Aug. 10; v. 277; p. 282.
Althouse, Charles S., Reading, Pa. Dyeing. No. 1,349,867; Aug. 17; v. 277; p. 464.
Altmayer, Hugo. (See Adams, H. T., and Altmayer.)
Alton, William H., New York, N. Y. and A. C. Battelle, assignors, by mesne assignments, to A. C. Battelle, Chicago, Ill. Filler. No. 1,350,694; Aug. 24; v. 277; p. 671.
Alvo, Florencio. (See Butty, C., and Alvo.)
Amadio, Harry H., Bedfern, near Sydney, New South Wales, Australia. Foot for crutches, walking-sticks, ladders, and the like. No. 1,348,531; Aug. 3; v. 277; p. 78.
Amdursky, Samuel S. (See Steinmetz, Robert, assignor.)
American Auto Alarm, The. (See Morgan, Lewis H., assignor.)

American Automatic Products Corporation. (See Woodward, Garrett W., assignor.)
American Brake Company, The. (See Burton, Thomas L., assignor.)
American Can Company. (See Dister, Joseph, assignor.)
American Can Company. (See Graham, Charles W., assignor.)
American Can Company. (See Grey, James A., assignor.)
American Can Company. (See Halloway, William M., assignor.)
American Can Company. (See Holloway, William M., assignor.)
American Can Company. (See Johnson, Axel, assignor.)
American Can Company. (See Levander, Swan N., assignor.)
American Casting and Manufacturing Corporation. (See Dietze, Emil, assignor.)
American Clearing Company. (See Barber, Harry E., assignor.)
American Concrete Forms Company. (See Belt, W. M., and Smith, assignors.)
American District Telegraph Company. (See Hopkins, Richard M., assignor.)
American Dressler Tunnel Kilns. (See Dressler, Philip D., assignor.)
American Dressler Tunnel Kilns. (See Meehan, Paul A., assignor.)
American Laundry-Machinery Company, The. (See Braley, C. L., and Waream, assignors.)
American Laundry Machinery Company, The. (See Carroll Emil J., assignor.)
American Laundry Machinery Company, The. (See Waream, C. E., and Benjamin, assignors.)
American Machine & Manufacturing Company. (See Davidson, Joseph, assignor.)
American Mine Door Company, The. (See Bowman, Newton K., assignor.)
American Optical Company. (See Arnold, Arthur A., assignor.)
American Optical Company. (See Herbert, Pitt H., assignor.)
American Optical Company. (See Hill, Harry W., assignor.)
American Paper Bottle and Can Company. (See Stephenson, Leonard D., assignor.)
American Photo Player Company. (See Van Valkenburg, Burt R., assignor.)
American Rubber Company. (See Gibbons, Willis A., assignor.)
American Steam Gauge & Valve Manufacturing Company. (See Hopkins, Frank H., assignor.)
American Steel Foundries. (See Carscadin, Charles A., assignor.)
American Steel Foundries. (See Trowbridge, William S., assignor.)
American Steel & Wire Company, The. (See Weaver, A. T., Laufer, and von Wintzingerode, assignors.)
American Telephone and Telegraph Company. (See Toomey, John F., assignor.)
American Wagon Company. (See Kuhnen, Alexander F., assignor.)
American Well Works, The. (See Chapman, Matthew T. and M. C., assignors.)
Amsler, Walter O., Edgewood, Pa. Annealing furnace or leer. No. 1,351,323; Aug. 31; v. 277; p. 856.
Amstutz, Noah S. (See Simpson, David J., assignor.)
Anagnostopoulos, Theodore D. (See Theodore, Anostopoulo D.)
Anchor Rubber Company, The. (See Pastor, Frank, assignor.)
Anderson, Albert O. (See Bradley, Jacob A., assignor.)
Anderson, Arthur V., and A. M. Morgan, assignors to Ford Tire & Rubber Company, Fort Worth, Tex. Tire-casing. No. 1,351,015; Aug. 31; v. 277; p. 795.
Anderson, Axel. (See Gahring, Frederick A., assignor.)
Anderson, Carl E. E., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,348,684; Aug. 3; v. 277; p. 107.
Anderson, Carl O., Springfield, assignor to Thorne Bros., Inc., Chicago, Ill. Cream-separator bowl. No. 1,351,198; Aug. 31; v. 277; p. 830.
Anderson, Chester H., assignor of one-fourth to C. L. Hill and two-fourths to H. R. Kleinbach, Los Angeles, Calif. Clock. No. 1,350,131; Aug. 17; v. 277; p. 514.
Anderson, David G., Columbus, Ohio, assignor to The Ohio Malleable Iron Company. Casting-machine. No. 1,350,352; Aug. 24; v. 277; p. 603.
Anderson, E. D., Inc. (See Beckmann, Carl, assignor.)
Anderson Electric Specialty Company. (See Anderson, Ernst G. K., assignor.)
Anderson, Ernst G. K., assignor to Anderson Electric Specialty Company, Chicago, Ill. Actuating member for switches. No. 1,349,251; Aug. 10; v. 277; p. 271.
Anderson, Hans. (See Lund, J. M., and Anderson.)
Anderson, James B., Philadelphia, Pa. Mine pulley or roller. No. 1,349,183; Aug. 10; v. 277; p. 257.
Anderson, John E., Jamestown, N. D. Hose-reel. No. 1,350,205; Aug. 17; v. 277; p. 529.
Anderson, Ragnar, Sheridan, Wyo. Salt and pepper shaker. No. 1,351,602; Aug. 31; v. 277; p. 911.
Anderson, William P., and N. C. Clarke, Birmingham, and J. F. Whitelaw, Erdington, England. Artificial arm. (Reissue.) No. 14,939; Aug. 31; v. 277; p. 934.
Angel, John H., Minneapolis, Minn. Press-plate. No. 1,349,644; Aug. 10; v. 277; p. 328.
Angle, Lloyd. (See Eby, P., and Angle.)
Antisell, Frank L., Perth Amboy, N. J. Process of and furnace for refining copper. No. 1,348,470; Aug. 3; v. 277; p. 66.
Annable, Lee V., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel with demountable rim. No. 1,348,975; Aug. 10; v. 277; p. 215.
Anthony, Joseph L., assignor to Weir Stove Company, Taunton, Mass. Stove-door. No. 1,348,838; Aug. 10; v. 277; p. 189.
Antman, Israel, New York, N. Y. Machine for measuring and cutting ribbon. No. 1,348,976; Aug. 10; v. 277; p. 216.
Apple, Vincent G., Dayton, Ohio. Building inductor elements for dynamo-electric machines. No. 1,348,198; Aug. 3; v. 277; p. 13.
Appleby, William H., Windsor, Ontario, Canada. Hinge and lock for steering-wheels. No. 1,351,603; Aug. 31; v. 277; p. 911.
Applegate, Daniel, Port Clinton, Ohio. Ice-harvesting machine. No. 1,351,604; Aug. 31; v. 277; p. 912.
Applin, John W., assignor to La Fayette Motors Company, Indianapolis, Ind. Curtain-compartment for automobiles. No. 1,351,547; Aug. 31; v. 277; p. 900.
Apsley Rubber Company. (See Wrestling, Herman, assignor.)
Archer, Marmaduke H. P., Conshohocken, Pa. Mowing-machine. No. 1,348,685; Aug. 3; v. 277; p. 107.
Archibald, John A., South Pekin, Ill. Underwater boat. No. 1,348,686; Aug. 3; v. 277; p. 108.
Arden, Thomas R., New York, N. Y. Collapsible rod. No. 1,348,145; Aug. 3; v. 277; p. 3.
Arkell Safety Bag Company. (See Greene, Edwin D., assignor.)
Armleder, Otto, Wyoming, Ohio. Self-propelled vehicle. No. 1,351,199; Aug. 31; v. 277; p. 831.
Armour, Robert, Providence, R. I. Trick pocket-knife. No. 1,350,251; Aug. 17; v. 277; p. 537.
Armstrong Cork Company. (See Hawkins, John L., assignor.)
Armstrong, Morgan K., Winnetka, assignor to Beatwall Manufacturing Company, Chicago, Ill. Making plasterboard. No. 1,348,387; Aug. 3; v. 277; p. 51.
Armstrong, Victor C. (See Payne, Ralph W., assignor.)
Arndt, Franklin E., assignor of one-half to D. C. Boyd, Galion, Ohio. Engine-manifold. No. 1,350,431; Aug. 24; v. 277; p. 619.
Arndt, John P., Milwaukee, Wis. Fuse-switch. No. 1,350,432; Aug. 24; v. 277; p. 619.
Arndt, Oscar, assignor of one-half to R. Arndt, Detroit, Mich. Jar-opener. No. 1,348,532; Aug. 3; v. 277; p. 78.
Arndt, Roman. (See Arndt, Oscar, assignor.)
Arnold, Arthur A., Southbridge, Mass., assignor to American Optical Company. Swaging-machine. No. 1,350,634; Aug. 24; v. 277; p. 659.
Arnold, Arthur E., Llandudno, Wales. Coal cabinet, scuttle, and the like. No. 1,350,913; Aug. 24; v. 277; p. 711.
Arnold, Charles E., assignor to du Pont Fabrikoid Company, Wilmington, Del. Forming artificial leather and product thereof. No. 1,350,271; Aug. 17; v. 277; p. 541.
Arnold-Creager Company. (See Graham, Henry W. B., assignor.)
Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Method of and means for utilizing thermionic currents. No. 1,349,252; Aug 10; v. 277; p. 271.
Arnold, Philip S., Highland Park, assignor of one-fifth to C. E. Wisner, Detroit, Mich. Grinding-machine. No. 1,351,409; Aug. 31; v. 277; p. 873.
Arnold Wahl Institute, The. (See Wahl, Arnold S., assignor.)
Arrow Bottlers Machinery Company, trustee. (See Gaynor, John J., assignor.)
Arrow-Grip Manufacturing Company. (See Avery, True M., assignor.)
Arrow Phonograph Corporation. (See Matthews, Frederick W., assignor.)
Art in Buttons. (See Eby and Angle, assignors.)
Arthur, Kemp B., Norfolk, Va. Adjustable and separable stud or button. No. 1,349,649; Aug. 17; v. 277; p. 421.
Artmaier, Hans, Racine, Wis. Dental-instrument-grinding device. No. 1,350,951; Aug. 24, v. 277; p. 719.
Aschburner, Fredrick C., Chicago, Ill. Stethoscope. No. 1,350,767; Aug. 24; v. 277; p. 685.
Ash, Frederick J., Phoenixville, Pa. Stocking-holding device. No. 1,348,922; Aug. 10; v. 277; p. 205.
Ashcroft, Edgar A., London, England. Manufacture of potassium chlorid from natural silicates, rocks, minerals, residues, or wastes containing potassium. No. 1,350,091; Aug. 17; v. 277; p. 506.
Ashenhurst, Harold S., Chicago, Ill. Fireproofing material. No. 1,351,149; Aug. 31; v. 277; p. 820.
Asher, Eunice. (See Stremel, Joseph, assignor.)
Ashley, Walter A., Chillicothe, Ohio. Fitting for domestic gas-meters. No. 1,350,132; Aug. 17; v. 27; p. 514.
Ashton, Fred B., Chicago, Ill. Automatic combination-lock. No. 1,348,621; Aug. 3; v. 277; p. 95.
Ashworth, Fred, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,351,090; Aug. 31; v. 277; p. 809.

Asman, Henry, Evansville, Ind. Combined double-ended sled and wagon. No. 1,349,311; Aug. 10; v. 277; p. 282.
Aspinwall, John, Newburgh, N. Y. Mower. No. 1,348,471; Aug. 3; v. 277; p. 66.
Asselstine, Burton, et al. (See Mowatt, Alexander, assignor.)
Associated Engines Company. (See Gruenfeld, Julius J., Jr., assignor.)
Associated Engineers Company. (See Tillson, Edwin D., assignor.)
Astrom, John, assignor to Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Valve. No. 1,349,253; Aug. 10; v. 277; p. 271.
Atkins, Earl F. (See Atkins, Frank K., and E. F.)
Atkins, Frank K. and E. F., New York, N. Y. Filter. No. 1,350,433; Aug. 24; v. 277; p. 620.
Atlantic Metal Hose Company. (See Siegel, Samuel, assignor.)
Atterbury, Grosvenor, New York, N. Y. Reinforced cellular structure. No. 1,349,868; Aug. 17; v. 277; p. 464.
Atwell, Robert L., Beloit, Wis. Traffic-signals for vehicles. No. 1,351,605; Aug. 31; v. 277; p. 912.
Atwood, Harry N., assignor to The Veneer Products Company, Smithfield, N. C. Vehicle-wheel. No. 1,348,533; Aug. 3; v. 277; p. 78.
Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Du Lac, Minneapolis, Minn. Rotary pump. No. 1,348,771; Aug. 3; v. 277; p. 123.
Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Dulac, Minneapolis, Minn. Rotary pump. No. 1,348,772; Aug. 3; v. 277; p. 124.
Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Dulac, Minneapolis, Minn. Rotary pump. No. 1,348,773; Aug. 3; v. 277; p. 124.
Aurora Door Hanger & Specialty Company. (See Weis, Paul B., assignor.)
Austin, Eber C., Wahoo, Nebr. Valve-spring lifter. No. 1,349,934; Aug. 17; v. 277; p. 476.
Austin, Frederick C. (See Bentson, Hans J., assignor.)
Austin, Herbert. (See MacGregor, James, assignor.)
Austin, Walter S., Pittsburgh, Pa. Nurling-tool. No. 1,349,254; Aug. 10; v. 277; p. 271.
Auto-Ordnance Corporation. (See Eickhoff, T. H., and Tunks, assignors.)
Auto-Ordnance Corporation. (See Eickhoff, Theodore H., assignor.)
Auto-Ordnance Corporation. (See Graham, Oliver B., assignor.)
Auto Ordnance Corporation. (See Payne, Oscar V., assignor.)
Auto Ordnance Corporation. (See Tunks, Charles A., assignor.)
Auto Slyde & Moving Picture Machine Co. (See Klaiber, Maximilian, assignor.)
Automatic Elec. Company. (See Meyer, Trygve E., assignor.)
Automatic Electric Company. (See Erickson, John, assignor.)
Automatic Electric Company. (See Jacobsen, Emil, assignor.)
Automatic Electric Company. (See Martin, Talbot G., assignor.)
Automatic Electric Company. (See Powell, Winfred T., assignor.)
Automotive Tractor Corporation of America. (See Scully, George H., assignor.)
Auxiliary Spring Company, A. R. G. (See Groff, Angus R., assignor.)
Avery Company. (See Van Valkenburg, Lester R., assignor.)
Avery, True M., assignor to Arrow-Grip Manufacturing Co., Inc., Glens Falls, N. Y. Chain-connector. No. 1,350,952; Aug. 24; v. 277; p. 719.
Awischus, August, Filley, Nebr. Lifting-grapple. No. 1,350,053; Aug. 17; v. 277; p. 499.
Axe, Roy T., and E. F. Chaffee, assignors to The O. M. Edwards Company Inc., Syracuse, N. Y. Brake for window-sashes. No. 1,349,037; Aug. 10; v. 277; p. 228.
Ayers, Elwood B. (See Schwartz, W. M., and Ayers.)
Aylward, Henry W., Brooklyn, N. Y. Expansion-bolt. No. 1,349,998; Aug. 17; v. 277; p. 489.
Ayotte, Joseph R., Chicago, Ill. Hand-tool. No. 1,349,553; Aug. 17; v. 277; p. 403.
Ayraud, Jules J. (See McCullar, W. A., and Ayraud.)
Ayres, Richard S., Brookline, Mass. Process and apparatus for heel manufacture. No. 1,350,852; Aug. 24; v. 277; p. 701.
B-V Milking Machine Company. (See Somers, Charles E., assignor.)
Bachmann, Albert W., Laporte, Ind. Water-heater for furnaces and the like. No. 1,351,606; Aug. 31; v. 277; p. 912.
Backinger, Christian. (See Newlon, J. B., and Backinger.)
Badenhausen, John P., Philadelphia, Pa. Superheater. No. 1,349,554; Aug. 17; v. 277; p. 403.
Badenhausen, John P., Philadelphia, Pa. Steam-boiler. No. 1,351,324; Aug. 31; v. 277; p. 856.
Badier, Louis G., and L. B. Holliday, assignors to L. B. Holliday & Co., Limited, Huddersfield, England. Manufacture of picric acid. No. 1,349,602; Aug. 17; v. 277; p. 451.
Bagg, Mathew M. (See Farr, Ira R., assignor.)
Bahan, George F., and A. St. Onge, Charlotte, N. C. Bobbin-stripper. No. 1,349,448; Aug. 10; v. 277; p. 309.
Bailey, Cyrus, Western Springs, Ill. Plane No. 1,348,923; Aug. 10; v. 277; p. 205.
Bailey, Harold P., Franklin, N. H. Watch-bow. No. 1,348,388; Aug. 3; v. 277; p. 51.
Bailey, William F. A., assignor, by mesne assignments, to Non Skid Company of America, Boston, Mass. Anti-skidding device for tires. No. 1,350,484; Aug. 24; v. 277; p. 630.
Bailey, William H., New Lexington, Ohio. Name-plate and annunciator. No. 1,351,362; Aug. 31; v. 277; p. 864.
Bair, Clark E., et al. (See Landers, William M., assignor.)
Bair, Joseph H., Haddonfield, N. J. Washing-machine. No. 1,350,353; Aug. 24; v. 277; p. 603.
Baird Machine Company, The. (See Lewis, Arthur J., assignor.)
Bak, Edward, East Stanwood, Wash. Washboiler attachment. No. 1,349,545; Aug. 10; v. 277; p. 328.
Baker, Edward J., Chicago, Ill. Advertising device. No. 1,350,054; Aug. 17; v. 277; p. 499.
Baker, Frank E. (See Chapin, E. I., and Baker.)
Baker, Franklin, Jr., Philadelphia, Pa. Preparing or treating cocoanut and product obtained thereby. No. 1,348,687; Aug. 3; v. 277; p. 108.
Baker, Franklin, Jr., Philadelphia, Pa. Preparing or treating cocoanut and product obtained thereby. No. 1,348,688; Aug. 3; v. 277; p. 108.
Baker, Franklin, Jr., Philadelphia, Pa. Preparing or treat-treating cocoanut and product obtained thereby. No. 1,348,689; Aug. 3; v. 277; p. 108.
Baker, George R., assignor to Joseph Baker and Sons Limited, London, England. Coating confections and the like. No. 1,350,538; Aug. 24; v. 277; p. 640.
Baker, John S., Los Angeles, Calif. Ballot. No. 1,350,914; Aug. 24; v. 277; p. 712.
Baker, Joseph, and Sons. (See Baker, George R., assignor.)
Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Dispensing-faucet. No. 1,348,839; Aug. 10; v. 277; p. 189.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamically-controlled socket-switch for electric lights. No. 1,350,587; Aug. 24; v. 277; p. 651.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Thermodynamic extinguishing device for lamps. No. 1,350,588; Aug. 24; v. 277; p. 651.
Baker, Malcolm H., deceased, Braintree; M. H. Baker, administratrix, assignor to K. W. Crosby, trustee, Boston, Mass. Time-retarded extinguishing device for gas-burners. No. 1,350,589; Aug. 24; v. 277; p. 651.
Baker, Marie H., administratrix. (See Baker, Malcolm H., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Carothers, John N., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Martel, F. J. Briggs, Macaulay, Wright, and Wenner, assignors.)
Baker, R & L Company, The. (See Gruenfeldt, Emil, assignor.)
Bakerman, Abraham M., New York, N. Y. Necktie. No. 1,349,486; Aug. 10; v. 277; p. 316.
Bakke, Carl O., Fertile, Minn. Belt. No. 1,350,915; Aug. 24; v. 277; p. 712.
Bakken, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Latching device. No. 1,349,356; Aug. 10; v. 277; p. 291.
Bakken, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fuse. No. 1,349,357; Aug. 10; v. 277; p. 291.
Balestrino, Louis, Brooklyn, and G. Merigone, New York, N. Y. Multiple-lever lock for automobiles. No. 1,348,840; Aug. 10; v. 277; p. 189.
Balestrino, Louis, Brooklyn, and G. Merigone, New York, N. Y. Automobile-lock. No. 1,348,841; Aug. 10; v. 277; p. 189.
Balke, Clarence W., Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Amalgamating steel bodies. No. 1,349,999; Aug. 17; v. 277; p. 489.
Ball, Arthur T., Ranger, Tex. Shaft-bearing. No. 1,350,953; Aug. 24; v. 277; p. 720.
Ball, Waldon S., San Francisco, Calif., assignor, by mesne assignments, to Stereoscopic Motion Picture Company. Method of and apparatus for taking moving-pictures. No. 1,351,502; Aug. 31; v. 277; p. 891.
Ballman, Edwin C., assignor to Valley Electric Company, Wilmington, Del. Cartridge-type fuse. No. 1,350,055; Aug. 17; v. 277; p. 500.
Baltes, Walter H., Milwaukee, Wis. Signal-light for automobiles. No. 1,350,539; Aug. 24; v. 277; p. 641.
Bancarel, Charles, Levallois-Perret, France. Portable cinematographic apparatus. No. 1,349,650; Aug. 17; v. 277; p. 421.
Bar and Stroud. (See Barr, A., Stroud, and d'Albe, assignors.)

Baran, Wilfred, *et al.* (See Kollock, Samuel W. M., assignor.)

Barber-Colman Company. (See Colman, Howard D., assignor.)

Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 1,351,450; Aug. 31; v. 277; p. 882.

Barber, Harry E., Green Cove Springs, Fla., assignor, by mesne assignments, to The American Clearing Company, Hamilton, Ohio. Stump-pulling machine. No. 1,349,803; Aug. 17; v. 277; p. 451.

Barber, William, Brooklyn, N. Y. Metal wheel. No. 1,348,190; Aug. 3; v. 277; p. 13.

Barbery, Anthony. (See Patremio, Martin, assignor.)

Barbet, Emile A., Paris, France. Apparatus for regulating and maintaining a desired level of liquid in evaporating installations. No. 1,349,114; Aug. 10; v. 277; p. 242.

Barbet, Emile A., Paris, France. Removing tar from products of the distillation of wood or coal. No. 1,351,363; Aug. 31; v. 277; p. 864.

Barbour, George H., Pittsburgh, Pa. Rail-tie. No. 1,348,344; Aug. 3; v. 277; p. 42.

Barbour, George H., Pittsburgh, Pa. Rail-joint. No. 1,348,345; Aug. 3; v. 277; p. 43.

Barbour, William T., and W. L. Merafelder, assignors to Detroit Stove Works, Detroit, Mich. Stove-door. No. 1,350,768; Aug. 24; v. 277; p. 685.

Barclay, David, Conneautville, and A. M. Dudley, Oakmont, Pa., assignors to Westinghouse Electric and Manufacturing Company. Shaft-bracing. No. 1,349,358; Aug. 10; v. 277; p. 291.

Bard, Jacob W., and O. White, assignors to Sangamo Electric Company, Springfield, Ill. Graphic recording instrument. No. 1,350,485; Aug. 24; v. 277; p. 630.

Barletta, Peter, Lyndhurst, N. J. Alarm-clock. No. 1,350,693; Aug. 24; v. 277; p. 671.

Barlow, Samuel E., Denver, Colo. Multiple-hoist push-car. No. 1,351,225; Aug. 31; v. 277; p. 836.

Barlow, Samuel E., Denver, Colo. Derrick-car. No. 1,351,226; Aug. 31; v. 277; p. 836.

Barlow, William N., Yonkers, N. Y. Electric relay or circuit-closing device. No. 1,348,842; Aug. 10; v. 277; p. 190.

Barnes, Ira W., East Liverpool, Ohio. Rivet-cutter. No. 1,350,206; Aug. 17; v. 277; p. 529.

Barnett, Jacob I., Newton, Mass. Garment. No. 1,349,359; Aug. 10; v. 277; p. 292.

Barnett, Otto R. (See Sponenburg, Hiram H., assignor.)

Barnhart, John E. (See Hayes, J. P., and Barnhart.)

Barnhart, Mollie E. (See Freeman, Alpheus J., assignor.)

Barnhill, E. B., and J. Stone, Indianapolis, Ind. Auto-tire pump. No. 1,351,503; Aug. 31; v. 277; p. 891.

Barnum, Raymond. (See Wilson, Walter, assignor.)

Baron, Robert R., assignor of one-half to G. A. Hug, Indianapolis, Ind. Variable-speed device for cycles. No. 1,350,288; Aug. 17; v. 277; p. 544.

Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Variable-speed hand-driving mechanism. No. 1,348,690; Aug. 3; v. 277; p. 108.

Barr, Archibald, W. Stroud, Anniesland, Glasgow, Scotland, and E. E. F. d'Albe, London, England, assignors to Barr and Stroud, Limited, Glasgow, Scotland. Optophone. No. 1,350,954; Aug. 24; v. 277; p. 720.

Barr and Stroud. (See Barr, A., and Stroud.)

Barrett, Andrew J., Britannia Beach, British Columbia, Canada, assignor of one-half to G. Bergquist, Seattle, Wash. Light-holder. No. 1,349,312; Aug. 10; v. 277; p. 282.

Barrett, Andrew J., Britannia Beach, British Columbia, Canada, assignor of one-half to G. Bergquist, Seattle, Wash. Elevator safety device. No. 1,349,313; Aug. 10; v. 277; p 283.

Barrett, Ferdinand A., Jr., Niagara Falls, N. Y. Switch. No. 1,350,916; Aug. 24; v. 277; p. 712.

Barrett, Herbert L., Opportunity, Wash. Pusher-feed for gang-saws. No. 1,348,389; Aug. 3; v. 277; p. 51.

Barrett, James V., Bordentown, and T. J. Barrett, Fieldsboro, N. J. Road or pavement. No. 1,351,607; Aug. 31; v. 277; p. 912.

Barrett, Thomas J. (See Barrett, J. V., and Barrett.)

Barry, John E., Jr., Chicago, Ill. Electric-lamp support. No. 1,350,056; Aug. 17; v. 277; p. 500.

Barry, Walter M., New York, N. Y. Educational toy. No. 1,351,608; Aug. 31; v. 277; p. 912.

Barry, William A., Little Rock, Ark. Safety-razor. No. 1,351,712; Aug. 31; v. 277; p. 932.

Barry, William A., Little Rock, Ark. Safety-razor. No. 1,351,713; Aug. 31; v. 277; p. 932.

Barsness, Herman J., Black Earth, Wis. Cement section for circular buildings. No. 1,350,434; Aug. 24; v. 277; p. 620.

Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making lead arsenate. No. 1,349,707; Aug. 17; v. 277; p. 433.

Bart, Charles, New York, N. Y. Display-rack canopy. No. 1,349,255; Aug. 10; v. 277; p. 272.

Bartels, Carl. (See Mosler, M., and Bartels.)

Bartlett, George L., Boston, Mass. Cleaning appliance. No. 1,351,720; Aug. 31; v. 277; p. 933.

Bartlett, Henry B., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Thickness-gage. No. 1,350,769; Aug. 24; v. 277; p. 685.

Bartlett, Percy H., assignor of one-third to J. B. Seaman and one-third to B. Currier, Philadelphia, Pa. Indicating and testing supply switch-box. No. 1,349,651; Aug. 17; v. 277; p. 422.

Bartlett, Wilbert S. (See Lombard, Levi W., assignor.)

Barton, Kirtland C., National Stock Yards, Ill., assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Controlling mechanism for meal-cookers and the like. No. 1,349,143; Aug. 10; v. 277; p. 248.

Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Obtaining titanic oxid. No. 1,348,843; Aug. 10; v. 277; p. 190.

Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Obtaining zirconium oxid. No. 1,351,091; Aug. 31; v. 277; p. 809.

Baskerville, Charles, New York, N. Y., and C. M. Joyce, Leominster, Mass. Reclaiming paper-stock. No. 1,351,092; Aug. 31; v. 277; p. 809.

Baskin, Frank S., Cleveland Heights, Ohio. Table attachment for seats. No. 1,348,924; Aug. 10; v. 277; p. 205.

Baskin, Kenneth S., Cleveland Heights, Ohio. Table attachment for seats. No. 1,351,548; Aug. 31; v. 277; p. 900.

Basset, Lucien P., Paris, France. Treating ores in blast-furnaces. No. 1,349,598; Aug. 17; v. 277; p. 412.

Bastian, Charles L., Chicago, Ill. Drum-valve. No. 1,349,748; Aug. 17; v. 277; p. 441.

Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Wire-tying bags. No. 1,348,346; Aug. 3; v. 277; p. 43.

Bates, August B., Washington, D. C. Drip-catcher for refrigerators. No. 1,349,314; Aug. 10; v. 277; p. 283.

Bates, George E., Syracuse, N. Y. Keyhole-illuminating device. No. 1,349,360; Aug. 10; v. 277; p. 292.

Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,350,000; Aug. 17; v. 277; p. 489.

Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)

Bates, W. B., and E. L. Stone, Roanoke, Va. Community-mail-box support. No. 1,350,770; Aug. 24; v. 277; p. 686.

Battelle, Albert C. (See Alton, W. H., and Alton.)

Battle, Richard, Okmulgee, Okla. Device for attaching electric-light fixtures to outlet-boxes. No. 1,351,150; Aug. 31; v. 277; p. 820.

Bauder, George T., *et al.* (See Stringer, Melvin, assignor.)

Bauer Brothers Company, The. (See Adelsperger, Dow L., assignor.)

Baughman, Alton L., Wolf Lake, Ind. Paving-block. No. 1,348,774; Aug. 3; v. 277; p. 124.

Baumann, Ferdinand P., Küsnacht, Switzerland, assignor, by mesne assignments, to G. H. Rein, New York, N. Y. Dry battery. (Reissue.) No. 14,929; Aug. 17; v. 277; p. 544.

Baumann, John R., Red Wing, Minn. Segment-block. No. 1,349,552; Aug. 10; v. 277; p. 329.

Bausch & Lomb Optical Company. (See Drescher, Theodore B., assignor.)

Bayer, Lloyd F., Tulsa, Okla. Obtaining volatile liquids from gases. No. 1,351,151; Aug. 31; v. 277; p. 820.

Bayne, George G., Bushnell, Ill. Auxiliary radius-truss for automobiles. No. 1,350,771; Aug. 24; v. 277; p. 686.

Beach, Benson C., and J. H. Beeby, Ottawa, Ontario, Canada. Combined heating, cooking, and baking stove. No. 1,349,652; Aug. 17; v. 277; p. 422.

Beal, Ralph R., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,350,695; Aug. 24; v. 277; p. 671.

Beardsley, Elmer O., and W. F. Piper, Chicago, Ill. Machine for making molds for founding. No. 1,351,227; Aug. 31; v. 277; p. 836.

Beatty, Roland A., New York, N. Y. Clothes-sprinkler. No. 1,350,133; Aug. 17; v. 277; p. 514.

Beaty, Wilbur L., South Butte, Mont. Reel-seat. No. 1,350,635; Aug. 24; v. 277; p. 659.

Beaty, Wilbur L., South Butte, Mont. Reel-seat for fishing-rods. No. 1,350,636; Aug. 24; v. 277; p. 660.

Beaty, Wilbur L., South Butte, Mont. Reel-seat for fishing-rods. No. 1,350,637; Aug. 24; v. 277; p. 660.

Beaumont, R. H., Company. (See Beaumont, R. H., assignor.)

Beaumont, Robert H., assignor to R. H. Beaumont Company, Philadelphia, Pa. Sheave-carrier. No. 1,348,691; Aug. 3; v. 277; p. 109.

Beaumont, William W., Westminster, London, England. Manufacture of tires for the wheels of road-vehicles. No. 1,348,200; Aug. 3; v. 277; p. 13.

Beauregard, Napoleon F. X., Chicago, Ill. Pulverized-fuel gas-generator. No. 1,351,460; Aug. 31; v. 277; p. 883.

Baxter, Douglas, assignor of one-half to G. Henderson, Three Rivers, Quebec, Canada. Beehive. No. 1,348,925; Aug. 10; v. 277; p. 206.

Beaver, Carl P., Ducktown, Tenn. Safety mechanism for elevators. No. 1,348,201; Aug. 3; v. 277; p. 13.

Bechtold, Reuben F., assignor to S. F. Bowser & Co., Fort Wayne, Ind. Meter for continuous pumps. No. 1,349,256; Aug. 10; v. 277; p. 272.

Beck, Oscar F., Lawndale, J. W. Speers and R. R. Jones, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Vulcanizing apparatus. No. 1,350,696; Aug. 24; v. 277; p. 671.

Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,349,115; Aug. 10; v. 277; p. 248.

Becker, Rudolph, assignor to The Singer Manufacturing Company, Roselle Park, N. J. Work-holder. No. 1,350,290; Aug. 24; v. 277; p. 591.

Beckman, William, Sealy, Tex. Oil-burner. No. 1,350,917; Aug. 24; v. 277; p. 713.

Beckmann, Carl, assignor to E. D. Anderson, Inc., New York, N. Y. Means for opening receptacles or cartons. No. 1,351,461; Aug. 31; v. 277; p. 883.

Beckton, Dickinson & Co. (See Schwidetzky, Oscar O. R., assignor.)

Beckwith, Charles E., deceased, Peoria, Ill.; M. L. Beckwith, administratrix. Automatic signaling device for trains. No. 1,349,708; Aug. 17; v. 277; p. 433.

Beckwith, Charles E., deceased, Peoria, Ill.; M. L. Beckwith, administratrix. Signaling mechanism for trains. No. 1,349,709; Aug. 17; v. 277; p. 433.

Beckwith, Harry H. (See Swett, Charles E., assignor.)

Beckwith, Mame L., administratrix. (See Beckwith, Charles E.)

Beebe, Byron L., Wellington, Kans. Application of power. No. 1,348,202; Aug. 3; v. 277; p. 13.

Beeby, John H. (See Beach, B. C., and Beeby.)

Beecher, Edward, St. Louis, Mo., assignor to McQuay-Norris Manufacturing Company. Piston-ring. No. 1,348,146; Aug. 3; v. 277; p. 3.

Bear, Guido, *et al.*, executors. (See Salvati, Michele N.)

Beeson, Byron P., assignor of one-half to T. W. Mace, Sapulpa, Okla. Bookkeeper's work-table. No. 1,349,710; Aug. 17; v. 277; p. 434.

Behr, Julius, Feuerbach-Stuttgart, Germany. Radiator. No. 1,351,462; Aug. 31; v. 277; p. 883.

Beine, Charles H., Kenosha, assignor of one-half to G. C. Brown, Milwaukee, Wis. Insulator-bracket. No. 1,348,534; Aug. 3; v. 277; p. 78.

Bell, Cyrus, Whittier, Calif. Sucker-rod joint. No. 1,348,692; Aug. 3; v. 277; p. 109.

Bell, Frank B., Chicago Heights, Ill., assignor to Edgewater Steel Company, Pittsburgh, Pa. Rolling-mill. No. 1,350,057; Aug. 17; v. 277; p. 500.

Bell, Frederika G., St. Paul, Minn. Knitting device. No. 1,351,016; Aug. 31; v. 277; p. 795.

Bell, John E., Brooklyn, assignor, by mesne assignments, to Foster Marine Boiler Corporation, New York, N. Y. Marine boiler. No. 1,349,869; Aug. 17; v. 277; p. 464.

Bell, Mary V., Oakland, Calif. Ripping-needle. No. 1,351,010; Aug. 24; v. 277; p. 730.

Bell, William H., Mount Vernon, N. Y. System for indicating and recording orders. No. 1,349,555; Aug. 17; v. 277; p. 403.

Bellican, Robert P., Natchez, Miss. Gate closer and supporter. No. 1,350,134; Aug. 17; v. 277; p. 515.

Bellonby, Leonard A., Montpelier, Vt. Curing concrete and like plastic materials. No. 1,348,775; Aug. 3; v. 277; p. 124.

Belt, William M., and H. C. Smith, assignors, by mesne assignments, to American Concrete Forms Company, Bloomington, Ill. Centering means and forming monolithic arches. No. 1,350,772; Aug. 24; v. 277; p. 686.

Belvin, Preston, Richmond, Va. Floor-oiler. No. 1,350,638; Aug. 24; v. 277; p. 660.

Benbow, James D. (See Moats, O. E., and Benbow.)

Bender, John H., Kansas City, Mo. Card-holder. No. 1,349,935; Aug. 17; v. 277; p. 476.

Bendix, Frederick. (See Phelan, R., and Bendix.)

Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,348,147; Aug. 3; v. 277; p. 3.

Benedict, James Z., Cedar Rapids, Iowa. Hand-cart. No. 1,350,058; Aug. 17; v. 277; p. 500.

Benham, Charles E., Schenectady, N. Y., assignor to The Maqua Company. Printer's furniture. No. 1,349,257; Aug. 10; v. 277; p. 272.

Benjamin, Dana H. (See Waream, C. E., and Benjamin.)

Benjamin Electric Manufacturing Company. (See Sidon, Maximilian, assignor.)

Benjamin, Newton, Elmira, N. Y. Tire-casing and making the same. No. 1,351,463; Aug. 31; v. 277; p. 883.

Benner, Charles. (See Evita, C., and Benner.)

Bennett, Erastus S., New York, N. Y. Turbine-engine. No. 1,349,487; Aug. 10; v. 277; p. 316.

Bennett Injector Company. (See Wood, A. J., assignor.)

Benson, Jesse M., Concord, Tenn. Automobile steering mechanism. No. 1,349,653; Aug. 17; v. 277; p. 422.

Benson, Lawrence, Kokomo, Ind. Fishing-reel. No. 1,351,549; Aug. 31; v. 277; p. 901.

Bentley, Joseph H., Bridgeport, Conn. Vise-handle. No. 1,350,773; Aug. 24; v. 277; p. 686.

Benton, James, East Palestine, Ohio. Multiple-cup mold. No. 1,349,546; Aug. 10; v. 277; p. 328.

Bentson, Hans J., La Jolla, Calif., assignor to F. C. Austin, Chicago, Ill. Trenching-machine. No. 1,349,936; Aug. 17; v. 277; p. 476.

Benwell, Albert H., St. Louis, Mo. Wrench. No 1,351,276; Aug. 31; v. 277; p. 846.

Beran, Rud F. (See Kaspar, J., and Beran.)

Berdon, A. E., Anderson, Ind., G. Ringwald, and A. I Gomory, Detroit, Mich., assignors to Remy Electric Company, Anderson, Ind. Distributer-head for ignition devices. No. 1,351,714; Aug. 31; v. 277; p. 932.

Berea, Alejandro, administrator de bonus non. (See Staud y Ximenes, Fernando.)

Beresnay, John, Throop, Pa. Railway-gate. No. 1,350,639; Aug. 24; v. 277; p. 660.

Berg, Alex P. K., Turlock, Calif. Road-scraper and land leveler. No. 1,351,277; Aug. 31; v. 277; p. 846.

Berg, Karl A. T., Höganäs, Sweden. Two-stroke-internal-combustion engine. No. 1,350,135; Aug. 17; v. 277; p. 515.

Bergen, John C., New Brunswick, N. J. Bag. No. 1,349,654; Aug. 17; v. 277; p. 422.

Bergen, John F. (See Marcus, J., and Bergen.)

Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Uniting fabric-sections. No. 1,349,711; Aug. 17; v. 277; p. 434.

Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Uniting fabric-sections. No. 1,349,712; Aug. 17; v. 277; p. 434.

Bergquist, Guet. (See Barrett, Andrew J., assignor.)

Bergstrom, Alfred E., Savage, Mont. Incubator. No. 1,349,315; Aug. 10; v. 277; p. 283.

Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Chair-clamp. No. 1,348,143; Aug. 3; v. 277; p. 3.

Berliner, Abraham. (See Berliner, Isidor, A., and S.)

Berliner, Isidor, A., and S., Toronto, Ontario, Canada. Telephonic apparatus. No. 1,350,291; Aug. 24; v. 277; p. 591.

Berliner, Samuel. (See Berliner, Isidor, A., and S.)

Bernet, Joseph W., New London, Conn. Foot-operable-impression throw-off. No. 1,350,272; Aug. 17; v. 277; p. 541.

Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington, New York, N. Y. Filtering materials. No. 1,350,292; Aug. 24; v. 277; p. 591.

Berry, Alfred M., Woodhaven, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y. Channel-entrance for typographical machines. No. 1,349,488; Aug. 10; v. 277; p. 317.

Berry, Frank, *et al.* (See Olney, Lillian B., assignor.)

Berry, Herbert H., and J. W. Reid, London, England. Electric fire. No. 1,349,804; Aug. 17; v. 277; p. 451.

Bertrand, Frederic E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,350,854; Aug. 24; v. 277; p. 604.

Best, Annie H., Brooklyn, assignor to W. N. Best, Inc., New York, N. Y. Burner. No. 1,351,550; Aug. 31; v. 277; p. 901.

Best, W. N., Inc. (See Best, Annie H., assignor.)

Bestwall Manufacturing Company. (See Armstrong, Morgan K., assignor.)

Bethlehem Shipbuilding Corporation. (See Simpson, William L., assignor.)

Bettendorf Company, The. (See Clasen, Claus J. W., assignor.)

Beurrier, Alexis, E. Bigourdan, and L. Lacoin, Paris, France. Flying-machine with revolving wings. No. 1,350,982; Aug. 24; v. 277; p. 725.

Bibb, Pearl M., Minden, W. Va. Rail-bender. No. 1,348,535; Aug. 3; v. 277; p. 78.

Bickings, William A., Detroit, Mich. Puzzle. No. 1,349,937; Aug. 17; v. 277; p. 476.

Bickley, Everett H., Southbridge, Mass. Means employed in production and material control systems. No. 1,350,955; Aug. 24; v. 277; p. 720.

Biddlecom, Roy W., assignor to L. B. Girard, Los Angeles, Calif. Fabric-clamp. No. 1,351,551; Aug. 31; v. 277; p. 901.

Bierbower, Richard C., assignor to Testall Electric Manufacturing Co., San Antonio, Tex. Electrical testing device. No. 1,349,655; Aug. 17; v. 277; p. 423.

Bierbower, Richard C., assignor to Testall Electric Manufacturing Co., San Antonio, Tex. Electrical testing device. No. 1,349,656; Aug. 17; v. 277; p. 423.

Big Four Wheel Company. (See Jessen, Arnold H., assignor.)

Bigourdan, Edouard. (See Beurrier, A., Bigourdan, and Lacoin.)

Bijur, Joseph, assignor, by mesne assignments, to Bijur Motor Appliance Company, New York, N. Y. Electrical starting apparatus. No. 1,349,870; Aug. 17; v. 277; p. 464.

Bijur, Joseph, assignor, by mesne assignments, to Bijur Motor Appliance Company, New York, N. Y. Lubricating device for dynamos and the like. No. 1,349,871; Aug. 17; v. 277; p. 464.

Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)

Bijur Motor Appliance Company. (See Wolffsohn, Lionel M., assignor.)

Billings, Frank, Cleveland, Ohio. Loading-machine. No. 1,349,749; Aug. 17; v. 277; p. 441.

Billings, Harry E., assignor of one-half to C. J. Searle, Lead, S. D. Belt-buckle. No. 1,350,207; Aug. 17; v. 277; p. 529.

Billings, William T., and F. Schryver, Ithaca, N. Y. Milk-strainer. No. 1,348,536; Aug. 3; v. 277; p. 79.

Billman, Obed C., Cleveland, Ohio. Car-coupling. No. 1,348,776; Aug. 3; v. 277; p. 124.
Billon, Frederic. (See Schneider, J., Hürlimann, and Billon.)
Billon, Frederic, Solothurn, Switzerland. High-voltage distributer for electric ignition apparatus. No. 1,349,316; Aug. 10; v. 277; p. 283.
Billstein, Aaron M., Riderwood, Md. Box. No. 1,351,278; Aug. 31; v. 277; p. 846.
Billy, Paul, Linden, N. J. Life-protector. No. 1,350,136; Aug. 17; v. 277; p. 515.
Bingley, John W., Watertown, N. Y. Safety train-stop mechanism. No. 1,349,489; Aug. 10; v. 277; p. 317.
Birch, Gustaf B. (See Cameron, J. A., and Birch.)
Bird Adding Machine Company. (See Fitch, Charles M., assignor.)
Birnbaum, Charles. (See Eliasoff, A. L., and Birnbaum.)
Birnstock, William W., assignor to Hench & Dromgold Company, York, Pa. Nozzle-header for bottle-washing machines. No. 1,349,144; Aug. 10; v. 277; p. 249.
Bishop, Thomas K., Powell Station, Tenn. Smoke-consuming device for locomotives. No. 1,348,537; Aug. 3; v. 277; p. 79.
Bishop, William J., assignor of one-half to J. J. Quilty, Collingwood, Ontario, Canada. Coin-controlled door. No. 1,351,609; Aug. 31; v. 277; p. 913.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electric switch and box. No. 1,350,486; Aug. 24; v. 277; p. 631.
Bissell, Carl H., and F. C. Smith, assignors to Crouse-Hinds Company, Syracuse, N. Y. Quick-action switch. No. 1,349,038; Aug. 10; v. 277; p. 228.
Bisson, Omer, Callaway, Minn. Saw-set. No. 1,348,622; Aug. 3; v. 277; p. 96.
Bitter, Arthur A., Los Angeles, Calif., assignor, by mesne assignments, to Western Vulcanizer Manufacturing Company, Chicago, Ill. Vulcanizer. No. 1,349,039; Aug. 10; v. 277; p. 228.
Bjorn, Jens A., Jamestown, N. Y. Machine for graining wood. No. 1,350,918; Aug. 24; v. 277; p. 713.
Blacker, William, Staleybridge, England. Mechanical or power actuated hammer. No. 1,349,939; Aug. 17; v. 277; p. 477.
Blackman, Horace L., Janesville, Wis. Pencil. No. 1,350,983; Aug. 24; v. 277; p. 725.
Blackmore, Charles C., Dayton, Ohio. Automatic gun. No. 1,351,017; Aug. 31; v. 277; p. 795.
Blackwell, Henry F., assignor of one-half to W. H. Strawn and one-half to M. A. Blackwell, New York, N. Y. Drilling device. No. 1,350,059; Aug. 17; v. 277; p. 500.
Blackwell, Maude A., *et al.* (See Blackwell, Henry F., assignor.)
Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Plural-sheet detector. No. 1,350,487; Aug. 24; v. 277; p. 631.
Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Shifting plate-clamp. No. 1,350,488; Aug. 24; v. 277; p. 631.
Blair, Wesley W., Newtonville, Mass. Treating peat. No. 1,349,713; Aug. 17; v. 277; p. 434.
Blair, Wesley W., Newtonville, Mass. Treating peat. No. 1,349,714; Aug. 17; v. 277; p. 435.
Blair, Wiley A., *et al.* (See Herrington, John A. D., assignor.)
Blake, Archie, New Orleans, La. Nut-lock. No. 1,349,404; Aug. 10; v. 277; p. 300.
Blake, Clinton F., Portland, Oreg. Luggage-rack. No. 1,349,938; Aug. 17; v. 277; p. 477.
Blake, Eli J., assignor to Hall Switch & Signal Co., Buffalo, N. Y. Light-signal. (Reissue.) No. 14,940; Aug. 31; v. 277; p. 935.
Blake, Robert F., Boston, Mass., assignor to Submarine Signal Company, Portland, Me. Tank-mounting. No. 1,348,536; Aug. 3; v. 277; p. 79.
Blando, Frank, New York, N. Y. Biscuit-stacking machine. No. 1,351,018; Aug. 31; v. 277; p. 795.
Blank, Charles A., Miller, Ind. Self-loader for auto-trucks. No. 1,348,777; Aug. 3; v. 277; p. 125.
Blank, Martin E., and L. F. Sitkiewitz, Thiensville, Wis. Can-handling device. No. 1,350,984; Aug. 24; v. 277; p. 726.
Blasdale, Frederick W. (See Muschenheim, F. A., and Blasdale.)
Blaser, David, Taylor Ridge, Ill. Walking-cultivator. No. 1,348,603; Aug. 3; v. 277; p. 109.
Blattberg, Nathan, assignor of one-half to S. Lachs, New York, N. Y. Collar-button. No. 1,349,872; Aug. 17; v. 277; p. 465.
Blauser, Henry A., Pickerington, Ohio. Cultivator. No. 1,349,657; Aug. 17; v. 277; p. 423.
Blaw-Knox Company. (See Venable, William M., assignor.)
Bley, Herbert G., Waterloo, Iowa. Dirigible light. No. 1,349,658; Aug. 17; v. 277; p. 423.
Bleymehl, Henry, Chicago, Ill. Safety device for elevators. No. 1,348,472; Aug. 3; v. 277; p. 67.
Bliss, Charles A., Bradford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heels. No. 1,351,152; Aug. 31; v. 277; p. 821.
Block, Harry E. (See Edison, Karl, assignor.)
Blocksom, Berget H., assignor to Wilson & Co., Inc., Chicago, Ill. Cushion-cover. No. 1,349,258; Aug. 10; v. 277; p. 272.
Blomquist, Alfred L., Gowrie, Iowa. Towing device. No. 1,349,556; Aug. 17; v. 277; p. 403.
Blood, Harold L., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Feed mechanism for planers. No. 1,350,540; Aug. 24; v. 277; p. 641.
Bloom, Harry F., Toledo, Ohio. Vacuum oil-cup. No. 1,351,610; Aug. 31; v. 277; p. 913.
Blosser, Mary A., Bever township, Mahoning county, Ohio. Sanitary milk-can cover. No. 1,351,611; Aug. 31; v. 277; p. 913.
Blumrick, George, assignor to Welsbach Company, Gloucester, N. J. Gas-lighting device and making same. No. 1,350,853; Aug. 24; v. 277; p. 701.
Bock, Herman, Meriden, Conn. Machine for hardening knife-blades. No. 1,350,697; Aug. 24; v. 277; p. 671.
Bodley, Mark H., Tyrone, Pa. Gate. No. 1,351,612; Aug. 31; v. 277; p. 913.
Bodom, Carl V., Tampico, Mexico. Fastening device for lifeboats. No. 1,349,817; Aug. 10; v. 277; p. 283.
Boe, Hans M., Minneapolis, Minn. Pump-plunger. No. 1,351,228; Aug. 31; v. 277; p. 836.
Boedtcher, Frans A., Bergenfield, N. J. Elevator-door lock. No. 1,350,698; Aug. 24; v. 277; p. 671.
Bogorad, Henry. (See Money, William C., assignor.)
Bohanan, Budd D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for removing surplus material. No. 1,351,153; Aug. 31; v. 277; p. 821.
Boldizzoni, Teobaldo. (See Terragni, M., and Boldizzoni.)
Boligiano, Charles J., Baltimore, Md. Correspondence-blank. No. 1,349,547; Aug. 10; v. 277; p. 328.
Bombelli, Angelo, Milan, Italy. Collapsible door, partition, and the like and operating mechanism therefor. No. 1,351,229; Aug. 31; v. 277; p. 836.
Bond, John P., Portland, Oreg. Brake-band. No. 1,350,985; Aug. 24; v. 277; p. 726.
Bone, William A., J. W. Wilson, Leeds, and C. D. McCourt, London, England, assignors, by mesne assignments, to Surface Combustion, Inc., Wilmington, Del. Combustion of fuel. No. 1,349,040; Aug. 10; v. 277; p. 228.
Bonney, Bick R., assignor to M. J. Foley and W. P. Monahan, Omaha, Nebr. Road-forming machine. No. 1,350,060; Aug. 17; v. 277; p. 500.
Booth, Charles W., Chicago, Ill. Golf-club. No. 1,349,805; Aug. 17; v. 277; p. 452.
Booth, Charles W., Chicago, Ill. Golf-club. No. 1,349,806; Aug. 17; v. 277; p. 452.
Booth, Earl C., Indianapolis, Ind., assignor to Holcomb & Hoke Manufacturing Company. Peanut-roaster. No. 1,350,541; Aug. 24; v. 277; p. 641.
Booth, Earl C., Indianapolis, Ind., assignor to Holcomb & Hoke Manufacturing Company. Display device. No. 1,350,542; Aug. 24; v. 277; p. 641.
Boothman, Lawrence, Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. Electric regulating-rheostat. No. 1,351,019; Aug. 31; v. 277; p. 795.
Booty, Stanley S., Sutton, England. Toilet article. No. 1,351,364; Aug. 31; v. 277, p. 865.
Borchert, Albert G. Cleveland, Ohio. Concrete construction. No. 1,348,623; Aug. 3; v. 277; p. 96.
Borders, Harry L., and E. A. Lewis, assignors to Standard Corrugated Box Co., St. Louis, Mo. Hinge for corrugated boxes. No. 1,348,844; Aug. 10; v. 277; p. 190.
Borland, Bruce, Chicago, Ill. Camera. No. 1,351,279; Aug. 31; v. 277; p. 847.
Borrowman, George L., New Rochelle, N. Y. Water-softening compound and producing same. No. 1,348,977; Aug. 10; v. 277; p. 216.
Boryk, John, Ansonia, Conn. Noisy toy. No. 1,349,259; Aug. 10; v. 277; p. 272.
Bostock, Francis J. (See Brown, P., and Bostock.)
Boston, Frank M. (See Walker, Asa C., assignor.)
Boswell, George G. F., assignor of one-eighth to V. H. Lockwood and one-eighth to R. G. Lockwood, Indianapolis, Ind. Chain saw. No. 1,349,557; Aug. 17; v. 277; p. 404.
Bouton, Edgar M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Furnace-regulator system. No. 1,349,361; Aug. 10; v. 277; p. 292.
Bouvier, George A., Detroit, Mich. Adjustable frame for shipping vehicles. No. 1,350,699; Aug. 24; v. 277; p. 672.
Bower, George L., Greenwood, Mass. Cam-cutting attachment. No. 1,351,365; Aug. 31; v. 277; p. 865.
Bowers, Frank E., Indianapolis, Ind. Heating-stove. No. 1,350,061; Aug. 17; v. 277; p. 501.
Bowes, Walter H., Greenwich, Conn. Apparatus for sorting, postmarking, and canceling mail. No. 1,349,940; Aug. 17; v. 277; p. 477.
Bowman, Newton K., North Lawrence, Ohio, assignor to The American Mine Door Company. Feeder-wire splice. No. 1,351,366; Aug. 31; v. 277; p. 865.
Bowman, Newton K., North Lawrence, Ohio. Cable-guide. No. 1,351,367; Aug. 31; v. 277; p. 865.
Bowser, S. F., & Co. (See Bechtold, Reuben E., assignor.)
Boyce, Malcolm B., Haverhill, Mass. Reflex focal-plane camera. No. 1,348,778; Aug. 3; v. 277; p. 126.
Boyd, David C. (See Arndt, Franklin E., assignor.)
Boyd, John L. (See Newman, Joe, assignor.)

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-fixture. No. 1,349,041; Aug. 10; v. 277; p. 229.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-rod. No. 1,349,042; Aug. 10; v. 277; p. 229.
Boye, James H., assignor to James H. Boye Manufacturing Co., Chicago, Ill. Commodity-cabinet. No. 1,351,464; Aug. 31; v. 277; p. 883.
Boye, James H., Manufacturing Co. (See Boye, James H., assignor.)
Boye, Lawrence F., Chester, Pa. Clutch mechanism. No. 1,348,926; Aug. 10; v. 277; p. 206.
Boyer, Edmond A., Princeton Junction, N. J. Door-holding device for automobiles. No. 1,348,260; Aug. 3; v. 277; p. 26.
Boyle, Bernard J. (See Royer, Edwin C., assignor.)
Brach, Leon S., New York, N. Y. Recording apparatus for railway-signals. No. 1,350,355; Aug. 24; v. 277; p. 604.
Brackenbury, E. W., assignor to The T. L. Smith Company, Milwaukee, Wis. Concrete-mixer. No. 1,350,298; Aug. 24; v. 277; p. 591.
Bradbury, Clifford C., Oak Park, assignor to C. B. Camp, Oak Park, and L. A. Williams, Evanston, Ill., joint trustees. Carbureter. No. 1,350,001; Aug. 17; v. 277; p. 480.
Braden Copper Company. (See Down, Norman B., assignor.)
Bradford Dyers Association. (See Whitaker, Harold, assignor.)
Bradley, Jacob A., Milwaukee, assignor of one-half to Albert O. Anderson, Shawano, Wis. Nut-lock. No. 1,349,260; Aug. 10; v. 277; p. 272.
Bradley, Joseph B., Miami, Fla. Wire cutting and twisting tongs. No. 1,348,694; Aug. 3; v. 277; p. 109.
Brady, William F., Newark, assignor to Crocker-Wheeler Company, Ampere, N. J. Molding-machine. No. 1,351,020; Aug. 31; v. 277; p. 795.
Braese, John A., Mound, N. D. Resilient wheel. No. 1,349,599; Aug. 17; v. 277; p. 412.
Bragg, Willie T., *et al.* (See Davis, Claude B., assignor.)
Braley, Charles L., and C. E. Waream, Cincinnati, assignors to The American Laundry Machinery Company, Norwood, Ohio. Chain conveyer. No. 1,350,774; Aug. 24; v. 277; p. 686.
Brand, Charles F., Wheeling, W. Va. Gas-burner. No. 1,348,261; Aug. 3; v. 277; p. 26.
Brand, George P., New York, N. Y. Detachable bottom-action unit for automatic musical instruments. No. 1,351,280; Aug. 31; v. 277; p. 847.
Brandenberger, Carl F., Fort Madison, Iowa. Spring tension for power or hand pumps. No. 1,348,203; Aug. 3; v. 277; p. 14.
Brandt, Lewis, Pittsburgh, Pa. Concrete construction. No. 1,349,600; Aug. 17; v. 277; p. 412.
Brauer, August, deceased, Independence, assignor of one-half to G. P. A. Weisenborn, Kansas City, Mo.; C. Brauer, executrix. Rotary pump. No. 1,350,775; Aug. 24; v. 277; p. 687.
Brauer, Charlotta, executrix. (See Brauer, August.)
Brann, Charles J. (See Janson, C. G., and Braun.)
Bräuning, Karl A., Zaandam, Netherlands. Automatic firearm. No. 1,350,543; Aug. 24; v. 277; p. 641.
Brecht, Frank v., and H. W. Tohtz, assignors to Gus V. Brecht Butchers' Supply Company, St. Louis, Mo. Carcass scraping and polishing machine. No. 1,350,435; Aug. 24; v. 277; p. 620.
Brecht, Gus V., Butchers' Supply Company. (See Brecht, F. v., and Tohtz, assignors.)
Breckenridge, Arthur N., Rockford, Ill. Power-drive for cream-separators. No. 1,348,695; Aug. 3; v. 277; p. 100.
Breckenridge, Harold C., Musselshell, Mont. Railway electric lantern. No. 1,349,548; Aug. 10; v. 277; p. 329.
Breinl, Joseph C., Prague, Czechoslovakia. Valve. No. 1,349,145; Aug. 10; v. 277; p. 249.
Breitenbach, Julius M., New York, N. Y. Electric motor. No. 1,348,539; Aug. 3; v. 277; p. 79.
Brenizer, Orson W., assignor of one-fifth to A. V. Groupe, Philadelphia, Pa. Cable-support. No. 1,349,043; Aug. 10; v. 277; p. 229.
Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Co., Bridgeport, Conn. Can-body-side-seam-soldering-machine. No. 1,349,044; Aug. 10; v. 277; p. 229.
Bresin, Louis, assignor to Adams-Williams Manufacturing Corporation, New York, N. Y. Convertible automobile-body construction. No. 1,348,624; Aug. 3; v. 277; p. 96.
Brewster, Guy O., *et al.* (See Brewster, Guy O., assignor.)
Brewster, Guy O., Dover, N. J. Bullet-proof armor. No. 1,348,204; Aug. 3; v. 277; p. 14.
Brewster, Guy O., Dover, N. J., assignor to G. O. Brewster and E. Heller. Bullet-proof armor. No. 1,350,062; Aug. 17; v. 277; p. 501.
Briant, Walter J. (See Erb, C. J., and Briant.)
Bricken, John, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Pencil. No. 1,351,552; Aug. 31; v. 277; p. 901.
Briggs, Clark A. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)
Briggs, Frank A., Bellingham, Wash. Device for repairing fenders of automobiles. No. 1,348,625; Aug. 3; v. 277; p. 96.
Briggs, George F., Beaumont, Tex. Automatic safety-target. No. 1,348,540; Aug. 3; v. 277; p. 79.
Brill, Ira D., Marlington, W. Va. Lock. No. 1,350,856; Aug. 24; v. 277; p. 604.
Brilliant, Mark L., San Francisco, Calif., assignor of one-half to C. E. Brinkman. Davenport-bed. No. 1,351,011; Aug. 24; v. 277; p. 731.
Brink, Charles E. (See Newton, Dan, assignor.)
Brinkman, Charles E. (See Brilliant, Mark L., assignor.)
Brison, Theodore H., Sioux Falls, S. D. Reversible rain-water cut-off. No. 1,349,808; Aug. 17; v. 277; p. 452.
Broadwell, Bartley E. (See Smith, A. G., and Broadwell.)
Broadwell, Bartley E., Niagara Falls, N. Y. Furnace construction. No. 1,351,281; Aug. 31; v. 277; p. 847.
Brockway, Scott A., Laurel, Nebr. Convertible toy. No. 1,348,262; Aug. 3; v. 277; p. 26.
Brogden, Joseph T., Providence, R. I., assignor to Revere Rubber Company. Bathing-hat. No. 1,350,776; Aug. 24; v. 277; p. 687.
Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Boiler with superheaters. No. 1,351,154; Aug. 31; v. 277; p. 821.
Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Apparatus for regulating the temperature of superheated steam. No. 1,351,465; Aug. 31; v. 277; p. 884.
Bronnum, Marinus, South Pasadena, Calif. Bermuda-grass cutter. No. 1,349,809; Aug. 17; v. 277; p. 452.
Brooke, John N., Halifax, England. Evaporator. No. 1,349,810; Aug. 17; v. 277; p. 452.
Brooks, Herbert, assignor to Petters Limited, Yeovil, England. Means for controlling the supply of liquid fuel to internal-combustion engines. No. 1,348,845; Aug. 10; v. 277; p. 190.
Brooks, Robert O. (See Hughes, William E., assignor.)
Brooks, Thomas A., Newton, Kans. Gas-screen. No. 1,350,700; Aug. 24; v. 277; p. 672.
Brooks, Winfred M., West Orange, N. J. Fastener. No. 1,348,473; Aug. 3; v. 277; p. 67.
Broome, William J., Los Angeles, Calif. Automobile-creeper. No. 1,349,941; Aug. 17; v. 277; p. 477.
Broomhead, Henry H., Bloomington, Idaho. Lock for automobile steering-gear. No. 1,349,490; Aug. 10; v. 277; p. 317.
Bropson, James, Cleveland, Ohio. Repair-plug. No. 1,350,489; Aug. 24; v. 277; p. 631.
Broshears, Gurley, Newburg, Ind. Adjustable line-supporting post. No. 1,350,208; Aug. 17; v. 277; p. 530.
Broun, Virginia M., Washington, D. C. Adjustable inclined bed. No. 1,348,779; Aug. 3; v. 277; p. 125.
Brown, Albert, New York, N. Y., assignor of one-third to M. J. Grauer and J. Lipshutz, New York, N. Y. Collar-bar. No. 1,351,613; Aug. 31; v. 277; p. 913.
Brown Bag Filling Machine Company. (See Brown, Benjamin F., assignor.)
Brown, Benjamin F., assignor to Brown Bag Filling Machine Co., Fitchburg, Mass. Conveyer for bags. No. 1,350,777; Aug. 24; v. 277; p. 687.
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,350,640; Aug. 24; v. 277; p. 660.
Brown, Carl S., and R. R. Shaffer, Ashland, Ohio. Light-deflector. No. 1,348,927; Aug. 10; v. 277; p. 206.
Brown, Clarence M., Philadelphia, Pa., assignor to Pittsburgh Plate Glass Company. Brush for cleaning glass-making pots. No. 1,349,262; Aug. 10; v. 277; p. 273.
Brown, Clarence M., Philadelphia, Pa., assignor to Pittsburgh Plate Glass Company. Cleaning-brush. No. 1,349,261; Aug. 10; v. 277; p. 273.
Brown, Edward E., and D. J. Mooney, London, England. Metal construction. No. 1,351,615; Aug. 31; v. 277; p. 914.
Brown, Edward E., Streetham, London, England. Girder and the like for aircraft. No. 1,351,614; Aug. 31; v. 277; p. 913.
Brown, George C. (See Beine, Charles H., assignor.)
Brown, Gouverneur G., New York, and P. A. Schuchart, Rockville Center, N. Y., assignors to Paper Service Company. Sheet-interfolding machine. No. 1,348,846; Aug. 10; v. 277; p. 190.
Brown, Henry C., Merion, and E. John, Ardmore, Pa., assignors to Victor Talking Machine Company. Container for talking-machine styli. No. 1,350,294; Aug. 24; v. 277; p. 592.
Brown, James B., Denver Colo. Ore-flotation apparatus. No. 1,351,155; Aug. 31; v. 277; p. 821.
Brown, John D. (See O'Neill, Arthur M., assignor.)
Brown, Leonard L., assignor of one-eighth to Robert E. Robinson and one-eighth to George I. Grasty, Clifton Forge, Va. Creepless metallic tie. No. 1,351,466; Aug. 31; v. 277; p. 884.
Brown, M. Lewis, assignor to Universal Metal Company, Detroit, Mich. Channel-tubing. No. 1,350,544; Aug. 24; v. 277; p. 642.
Brown, Oscar, Lula, Ga. Highway-crossing signal. No. 1,348,696; Aug. 3; v. 277; p. 110.
Brown, Percy, and F. J. Bostock, Huddersfield, England. Worm-gearing. No. 1,349,811; Aug. 17; v. 277; p. 458.
Brown, Ray G., assignor to The Carey Company, Cleveland, Ohio. Cover for radiators. No. 1,351,093; Aug. 31; v. 277; p. 809.
Brown, Shepherd F., Malden, Mass. Knotter. No. 1,349,659; Aug. 17; v. 277; p. 423.
Brown Specialties Company. (See Schirra, Julius, assignor.)

Brown, Thomas R., Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric train-wire coupling. No. 1,349,405; Aug. 10; v. 277; p. 301.

Brown, William H. (See Kennedy, James G., assignor.)

Browning, William H., New York, N. Y. Edge-trimmer. No. 1,348,847; Aug. 10; v. 277; p. 191.

Bruce, Thomas D. (See Woodruff, George N., assignor.)

Bruning, William H., Evansville, Ind. Coffee-pot. No. 1,351,410; Aug. 31; v. 277; p. 873.

Brussell, Harry. (See Wagman, E., and Brussell.)

Bryan, Elizabeth C. (See Miller, Albert W., assignor.)

Bryant, George W. (See Heale, F., and Bryant.)

Bryan.)

Bryant Electric Company, The. (See Anderson, Carl E., assignor.)

Bryson, Thomas J., New Orleans, La. Traction-lug for

Bryce, James W. (See Goss, H. T., and Bryce.)

Bryson, Thomas J., New Orleans, La. Traction-lug for vehicles. No. 1,349,406; Aug. 10; v. 277; p. 301.

Buch, Max, Birmingham, England, assignor, by mesne assignments, to Edwards Corporation, Jackson, Mich. Cape cart-hood for use on motor-vehicles. No. 1,349,045; Aug. 10; v. 277; p. 229.

Buchenau, Lloyd W., Stockton, Calif. Gum and mint case. No. 1,349,263; Aug. 10; v. 277; p. 273.

Buck, David V. (See Garman, H. B., and Buck.)

Buckel, Albert, Peru, Ill. Sack-Holder. No. 1,351,094; Aug. 31; v. 277; p. 809.

Buckham, George T. (See Dawson, A. T., and Buckham.)

Buckner, Harry L., Worcester, Mass., and E. Burke, Portland, Me. Waterproofing composition for fibrous materials. No. 1,349,601; Aug. 17; v. 277; p. 412.

Buckwalter, Leon G. (See Hutchinson, Morton C., assignor.)

Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)

Budd, Edward G., Manufacturing Company. (See Maise, Herman C., assignor.)

Budd, George H., Salt Lake City, Utah. Dirigible headlight. No. 1,350,252; Aug. 17; v. 277; p. 537.

Budnyk, Elena, Vegreville, Alberta, Canada. Combined chair and ladder. No. 1,348,474; Aug. 3; v. 277; p. 67.

Buffalo Truck and Tractor Corporation, The. (See Oversmith, Elmer H., assignor.)

Buhl, G. A., Company, The. (See Stutzke, R. W. G., assignor.)

Buhl, G. A., Company, The. (See Zimmermann, Hans J., assignor.)

Buhl, William, assignor to Bulkrug Machine Corporation, Flushing, N. Y. Connection between piston-rod and crank-shaft. No. 1,349,660; Aug. 17; v. 277; p. 424.

Buhl, William, assignor to Bulkrug Machine Corporation, Flushing, N. Y. Camp. No. 1,349,661; Aug. 17; v. 277; p. 424.

Bukovecz, Miguel, Mexico, Mexico. Instantaneous safety switch. No. 1,349,184; Aug. 10; v. 277; p. 257.

Bulkrug Machine Corporation. (See Buhl, William, assignor.)

Bullock, Edward W., S. H. Earl, and G. H. Bryan, assignors to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,351,200; Aug. 31; v. 277; p. 831.

Bullock, Lewis C., Jr., State College, Pa. Shoestring-fastening device. No. 1,348,475; Aug. 3; v. 277; p. 67.

Bullock, Samuel M., Chicago, and H. S. Lloyd, Oak Park, Ill. Abrasive disk wheel. No. 1,351,021; Aug. 31; v. 277; p. 796.

Burbridge, Richard, Allison, Iowa. Oscillating bob-knee for sleigh-runners. No. 1,348,347; Aug. 3; v. 277; p. 43.

Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)

Burgess, Tom, Corinth, Miss. Harness-hook. No. 1,350,778; Aug. 24; v. 277; p. 687.

Burgoyne, Benjamin F., New Haven, Conn. Collar-holder No. 1,350,063; Aug. 17; v. 277; p. 501.

Burke, Edmund. (See Buckner, H. L., and Burke.)

Burke, Herbert J., Essex, Ontario, Canada. Tractor-vehicle. No. 1,349,812; Aug. 17; v. 277; p. 453.

Burke & James. (See MacDowell, Glenn J., assignor.)

Burke, William J., San Francisco, Calif. Peg for violins and the like. No. 1,351,616; Aug. 31; v. 277; p. 914.

Burley, Gilderoy O., Newark, N. J. Dental separating or grinding disk. No. 1,350,002; Aug. 17; v. 277; p. 489.

Burn, Thomas W., New York, N. Y. Carpet and rug fastener. No. 1,348,149; Aug. 3; v. 277; p. 3.

Burnett, Albert E. (See Burnett, Cuthbert, and A. E.)

Burnett, Cuthbert and A. E., Trowbridge, England. Manufacture of rubber tires of the solid or band type. No. 1,351,156; Aug. 31; v. 277; p. 821.

Burnett, Richard W., Albany, N. Y. Car-roof. No. 1,351,411; Aug. 31; v. 277; p. 873.

Burns, Francis E., Los Angeles, Calif. Pipe cleaner and sprayer. No. 1,351,368; Aug. 31; v. 277; p. 865.

Burnum, Starr H. (See Curry, Malcolm, assignor.)

Burroughs Adding Machine Company. (See Wing, Roy E., assignor.)

Burroughs, Arthur S. (See Dutro, O. V., and Burroughs.)

Burton, Charles S., Oak Park, Ill. Container for music-rolls and the like. No. 1,350,701; Aug. 24; v. 277; p. 672.

Burton, George W., Providence, R. I. Locking device No 1,349,491; Aug. 10; v. 277; p. 317

Burton, Isaac F., Philadelphia, Pa., assignor to Victor Talking Machine Company. Sound-box for sound recording and reproducing machines. No. 1,350,590; Aug. 24; v. 277; p. 651.

Burton Page Company, The. (See Frimand, Peter A., assignor.)

Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake-head adjuster. No. 1,349,407; Aug. 10; v. 277; p. 301.

Busch-Sulzer Bros.-Diesel Engine Company. (See Pfeffer, Oscar W., assignor.)

Busse, Fred W., Louisville, Ill. Eaves-trough or gutter-cover. No. 1,349,264; Aug. 10; v. 277; p. 273.

Butler, Leon E., Chicago, Ill. Molding device. No. 1,351,157; Aug. 31; v. 277; p. 822.

Butler, Robert T., and H. E. Thompson, Flushing, Ohio. Switch-stand. No. 1,348,848; Aug. 10; v. 277; p. 191.

Butty, Carlos, and F. Alvo, Buenos Aires, Argentine. Product imitating china. No. 1,351,617; Aug. 31; v. 277; p. 914.

Buysse, Charles E. (See Emerson, G. B., and Buysse.)

Byron, Hagar B., New York, N. Y. Optical printer. No. 1,351,618; Aug. 31; v. 277; p. 914.

Cade, Robert S., Canton, Ohio. Combination metal weather-strip and guide for window-sashes. No. 1,348,205; Aug. 3; v. 277; p. 14.

Cadillac Motor Car Company. (See Sweet, Ernest E., assignor.)

Cahill, Phillip J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dredge-tumbler. No. 1,349,408; Aug. 10; v. 277; p. 301.

Cahn, Henry S., and H. Siskin, Los Angeles, Calif.; said Cahn assignor to said Siskin. Winding-handle for phonographs. No. 1,348,476; Aug. 3; v. 277; p. 67.

Calderon, Lópe V., La Ceiba, Honduras. Spur. No. 1,351,619; Aug. 31; v. 277; p. 914.

Caldwell, Benjamin F., Pomona, Calif. Furnace. No. 1,351,282; Aug. 31; v. 277; p. 847.

Calef, George W., Boston, Mass. Gas-burner. No. 1,351,715; Aug. 31; v. 277; p. 932.

Calmus, Harvey A., Pittsburgh, Pa. Hen-marker. No. 1,350,209; Aug. 17; v. 277; p. 530.

Calvert, Alan, Philadelphia, Pa. Reflecting device. No. 1,349,558; Aug. 17; v. 277; p. 404.

Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting and rewinding machine. No. 1,350,064; Aug. 17; v. 277; p. 501.

Cameron Machine Company. (See Cameron, J. A., and Birch, assignors.)

Cameron, William J. Chicago, Ill. Filling lamps. No. 1,348,978; Aug. 10; v. 277; p. 216.

Cammack, James M., Brooklyn, N. Y. Automatic control-valve. No. 1,350,065; Aug. 17; v. 277; p. 502.

Cammack, James M., Brooklyn, N. Y. Radiator. No. 1,350,066; Aug. 17; v. 277; p. 502.

Camp, Curtis B., *et al.*, trustees. (See Bradbury, Clifford C., assignor.)

Camp, William W., Stratford, Ontario, Canada. Press. No. 1,349,318; Aug. 10; v. 277; p. 283.

Campbell, Bryant D., Oakland, Calif. Telephone system. No. 1,348,780; Aug. 3; v. 277; p. 125.

Campbell, Henry W. (See Williams, Glen L., assignor.)

Campbell, Patrick G., Monolith, Calif. Agitating device. No. 1,349,492; Aug. 10; v. 277; p. 318.

Candee, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,351,022; Aug. 31; v. 277; p. 796.

Candee, L. & Company. (See Rice, J. M., Joseph, and Rupp, assignors.)

Canellos, Steve. (See Malacos, P., and Canellos.)

Canfield, Arthur J., Montreal, Quebec, Canada. Making draft-gear yokes. No. 1,349,493; Aug. 10; v. 277; p. 318.

Canfield, Stephen N., Holly, Colo. Sulky-rake. No. 1,351,158; Aug. 31; v. 277; p. 822.

Canning, Martin J., Chicago, Ill. Fuse-plug. No. 1,350,210; Aug. 17; v. 277; p. 530.

Cannon, Francis P. (See Wilbur, M. D., Cannon, and Murphy.)

Cantelo, John S., Roston, Mass. Caster. No. 1,348,150; Aug. 3; v. 277; p. 4.

Canter, Samuel C., Wilkesboro, N. C. Bridle and halter. No. 1,351,620; Aug. 31; v. 277; p. 914.

Canton, Allen A., New York, N. Y., assignor to Canton Fan Heater Co. Fan. No. 1,348,477; Aug. 3; v. 277; p. 68.

Canton Fan Heater Co. (See Canton, Allen A., assignor.)

Capes, Delbert R. (See Sebastian, A. A., and Capes.)

Caproni, Gianni, Milan, Italy. Multiplane aeroplane. No. 1,349,116; Aug. 10; v. 277; p. 243.

Cardall, Richard R., assignor of one-half to H. Shepherd, Salt Lake City, Utah. Posting-tray and record-binder. No. 1,348,781; Aug. 3; v. 277; p. 125.

Cardinell, Thomas, Mound City, Mo. Tire-casing spreader. No. 1,350,779; Aug. 24; v. 277; p. 687.

Carey Company, The. (See Brown, Ray G., assignor.)

Carland, Charles T., Cleveland, Ohio. Bail-support. No. 1,351,201; Aug. 31; v. 277; p. 831.

Carline, Robert L., Pittsburgh, Pa. Traction-gripping device. No. 1,348,697; Aug. 3; v. 277; p. 110.

Carlson, Charles J. (See Larson, L. M., and Carlson.)

Carlson, Frederick E., assignor to Landers, Frary & Clark, New Britain, Conn. Detachable handle. No. 1,350,641; Aug. 24; v. 277; p. 660.

Carlson, John. (See Johnson, Dolph, assignor.)

Carlson, John M., Sandstone, Minn. Car-door. No. 1,350,919; Aug. 24; v. 277; p. 713.

Carnes, Sam D., Fort Worth, Tex. Automobile-signal. No. 1,351,283; Aug. 31; v. 277; p. 847.

Caron, Martinus H. (See Clevenger, G. H., and Caron.)

Carothers, John N., Washington, D. C., assignor to N. D. Baker, Secretary of War, trustee. Fertilizer and making same. No. 1,350,591; Aug. 24; v. 277; p. 652.

Carpenter, Albert J. (See Johnson, J. W., and Carpenter.)

Carpenter, Charles E., Postville, Iowa. Kiln. No. 1,349,185; Aug. 10; v. 277; p. 257.

Carr, Edward G., assignor to The Lakewood Engineering Company, Cleveland, Ohio. Material-transferring apparatus. No. 1,349,813; Aug. 17; v. 277; p. 453.

Carr, Frank R., Xenia, Ohio. Piston-ring. No. 1,351,369; Aug. 31; v. 277; p. 865.

Carr, John H., Alhambra, Calif. Flying-machine. No. 1,349,942; Aug. 17; v. 277; p. 477.

Carr, Paul H., Washington, D. C. Collapsible paper cup. No. 1,351,412; Aug. 31; v. 277; p. 874.

Carr, Rimmon J., Petoskey, Mich. Crosstie. No. 1,349,814; Aug. 17; v. 277; p. 453.

Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Burner. No. 1,349,310; Aug. 10; v. 277; p. 284.

Carrey Rotary Engine Company. (See Carrey, John O., assignor.)

Carrigan, John A., New Castle, Pa. Attachment for metal-coating machines. No. 1,348,478; Aug. 3; v. 277; p. 68.

Carroll, Andrew L., assignor of one-half to G. McKenzie, St. Louis, Mo. Shock-absorbing wheel. No. 1,350,642; Aug. 24; v. 277 p. 661.

Carroll, Emil J., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Electric controller. No. 1,350,003; Aug. 17; v. 277; p. 400.

Carroll, Willard R., Derby, Conn. Making metal bands or rings. No. 1,351,202; Aug. 31; v. 277; p. 831.

Carscadin, Charles A., assignor, by mesne assignments, to American Steel Foundries, Chicago, Ill. Yoke for draft-gears. No. 1,350,436; Aug. 24; v. 277; p. 620.

Carson, Helen S., Stamford, Conn. Thread-cutter. No. 1,349,320; Aug. 10; v. 277; p. 284.

Carter, Harry G., Northfield, N. H. Business-record and income-tax book. No. 1,350,854; Aug. 24; v. 277; p. 701.

Carter, James A., St. Louis, Mo. Wheel and axle construction. No. 1,349,659; Aug. 17; v. 277; p. 404.

Carter, James W., Jr., Abilene, Tex. Indicator. No. 1,349,321; Aug. 10; v. 277; p. 284.

Carter, John P., Carter, Mont. Bolster-stirrup. No. 1,350,780; Aug. 24; v. 277; p. 687.

Carter, Maurice A., Gilby, N. D. Composition of matter. No. 1,348,479; Aug. 3; v. 277; p. 68.

Cary Manufacturing Company. (See Cary, S. C., and Ragona, assignors.)

Cary, Spence C., and V. Ragona, assignors to Cary Manufacturing Company, Brooklyn, N. Y. Means for binding shipping-packages. No. 1,350,137; Aug. 17; v. 277; p. 515.

Case, J. I., Threshing Machine Company. (See Dugan, Thomas, assignor.)

Cates, Leland C., assignor to Sunbeam Chemical Company, Chicago, Ill. Alkali-proof dye and producing same. No. 1,349,265; Aug. 10; v. 277; p. 273.

Catlin, Thomas S., Indianapolis, Ind. Container. No. 1,351,325; Aug. 31; v. 277; p. 856.

Catucci, Pliny, and A. Vasselli, Newark, N. J., assignor, by mesne assignments, to The Harriman National Bank of the City of New York, trustee. Stop mechanism for talking-machines. No. 1,350,781; Aug. 24; v. 277; p. 688.

Catucci, Pliny, and L. D. Nadel, Newark, N. J., assignors, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Fluid-regulator. No. 1,350,782; Aug. 24; v. 277; p. 688.

Caudron, René, Issy-les-Moulineaux, France. Arrangement of flexible members. No. 1,350,086; Aug. 24; v. 277; p. 726.

Cave, Antoine M., St. Etienne, France. Alkaline accumulator. No. 1,350,956; Aug. 24; v. 277; p. 720.

Cavileer, Ruth L. (See Cavileer, William N., and R. L.)

Cavileer, William N., and R. L., Ray, Ariz. Rotary Toothbrush. No. 1,351,159; Aug. 31; v. 277; p. 822.

Cavness, George K., Seymour, Iowa. Repair-clamp for automobile-running-board truss-rods. No. 1,350,253; Aug. 17; v. 277; p. 538.

Cawsey, John C., Hawera, New Zealand. Automatic milk-measuring appliance. No. 1,351,284; Aug. 31; v. 277; p. 848.

Central Oil & Gas Stove Co. (See White, Fred E., assignor.)

Central Scientific Company. (See de Khotinsky, Achilles, assignor.)

Cereghino, Louis J., Alameda, Calif. Combined flytrap and garbage-can. No. 1,350,402; Aug. 24; v. 277; p. 613.

Chaffee, Edward F. (See Axe, R. T., and Chaffee.)

Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Sash-lock for railway-car windows. No. 1,349,046; Aug. 10; v. 277; p. 229.

Chaffee, Herbert H., San Leandro, Calif. Oven. No. 1,349,494; Aug. 10; v. 277; p. 318.

Champeau, Lawrence X., Jersey City, N. J., assignor to Kirby, Champeau Co., Inc., New York, N. Y. Illuminating means. No. 1,350,295; Aug. 24; v. 277; p. 592.

Champion Ignition Company. (See Schmidt, Albert, assignor.)

Champion, John W., Pueblo, Colo. Rail-clamping device for metal ties. No. 1,350,855; Aug. 24; v. 277; p. 701.

Chandler, Edwin N., Braintree, Mass. Electrically-heated shoe-treeing iron. No. 1,348,263; Aug. 3; v. 277; p. 27.

Chantemerle, Joseph L., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Co. Controller for small motors. No. 1,351,023; Aug. 31; v. 277; p. 796.

Chapin & Baker Mfg. Company. (See Chapin, E. I., and Baker, assignors.)

Chapin, E. I., and F. E. Baker, assignors to Chapin & Baker Manufacturing Company, Inc., Syracuse, N. Y. Cutting-tool. No. 1,351,467; Aug. 31; v. 277; p. 884.

Chapin & Hollister Co. (See Lewis, Frederick W., assignor.)

Chapman, Leonora, Ariel, Pa. Ventilator. No. 1,349,186; Aug. 10; v. 277; p. 257.

Chapman, Mark C. (See Chapman, Matthew T. and M. C.)

Chapman, Matthew T. and M. C., assignors to The American Well Works, Aurora, Ill. Deep-well pump. No. 1,348,980; Aug. 10; v. 277; p. 216.

Chapman, Penrose E., St. Louis, Mo. Armature and coil winding-machine. No. 1,351,230; Aug. 31; v. 277; p. 837.

Charles, Henry L., Butte, Mont. Ore reducing and refining furnace. No. 1,348,151; Aug. 3; v. 277; p. 4.

Charter, Arlington, Covington, Tenn. Automatically-operated fire-extinguisher. No. 1,348,480; Aug. 3; v. 277; p. 68.

Chase Companies, The. (See Recker, Adolph C., assignor.)

Chase, Ray H., Alexandria, S. D. Magazine for automatic pistols. No. 1,351,370; Aug. 31; v. 277; p. 866.

Chase, Rutherford B., Chicago, Ill. Cleaning and polishing apparatus. No. 1,350,403; Aug. 24; v. 277; p. 613.

Chatillon, John & Sons. (See Stevens, Frederick M., assignor.)

Chemical Foundation, The. (See Klever, H., Lautenschläger, and Göhring, assignors.)

Chemical Foundation, The. (See Lilienfeld, Leon, assignor.)

Chemical Foundation, The. (See Meyerhofer, Albert F., assignor.)

Chemical Foundation, The. (See Pröstler, Norbert, assignor.)

Chemo-Mechanical Water Improvement Company. (See Rice, Cyrus W., assignor.)

Cherry, Verner A., Granite City, Ill. Child's bicycle-seat. No. 1,350,987; Aug. 24; v. 277; p. 726.

Chess, Mattie G., Oakland, Calif. Food-tray. No. 1,351,285; Aug. 31; v. 277; p. 848.

Chicago Bearings Company. (See Winn, Charles A., assignor.)

Chicago Flexible Shaft Company. (See Kocourek, Henry, assignor.)

Chicago Lino-Tabler Company. (See Stevenson, Ashton G., assignor.)

Chicago Manufacturing and Distributing Co. (See Sultemeyer, Charles F., assignor.)

Chicago Pneumatic Tool Company. (See Kinsman, Henry J., assignor.)

Chichester, B. B. trustees, et al. (See Jones, Walter J., assignor.)

Chlorine Products Company. (See Jewell, William M., assignor.)

Chmielinski, Joseph, Passaic, N. J. Fountain-brush. No. 1,351,371; Aug. 31; v. 277; p. 866.

Chomos, John, Toledo, Ohio. Telescopical bed and collapsible-chair combination. No. 1,348,481; Aug. 3; v. 277; p. 68.

Chomyn, Harry, Fox Valley, Saskatchewan, Canada. Railway joint. No. 1,350,763; Aug. 24; v. 277; p. 688.

Chrisman, Horace, Edgewood, assignor to Pittsburgh Meter Company, East Pittsburgh, Pa. Tangent-post for gas-meters. No. 1,350,067; Aug. 17; v. 277; p. 502.

Christensen, Christen, assignor to General Electric Company, Schenectady, N. Y. Electric switch. No. 1,349,873; Aug. 17; v. 277; p. 465.

Christensen, Herman. (See Vincent, Ernest H., assignor.)

Christensen Machine Company. (See Christensen, Martin, assignor.)

Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Conveyer for book-stitching machines. No. 1,348,849; Aug. 10; v. 277; p. 191.

Christensen, Martin, assignor to Christensen Machine Co., Racine, Wis. Signature-stitching machine. No. 1,348,850; Aug. 10; v. 277; p. 191.

Christensen, Martin, assignor to Christensen Machine Co., Racine, Wis. Signature-fold-centering device. No. 1,349,662; Aug. 17; v. 277; p. 424.

Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Feeding mechanism for book-stitching machines. No. 1,351,231; Aug. 31; v. 277; p. 837.

Christie, Edwin C., St. Catharines, Ontario, Canada, assignor to The Columbus McKinnon Chain Company, Columbus, Ohio. Chain-making machine. No. 1,348,541; Aug. 3; v. 277; p. 80.
Christmas, Adolph F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Governing mechanism for internal-combustion engines. No. 1,349,146; Aug. 10; v. 277; p. 249.
Christoph, Emil A. (See Meutsch, C. C., and Christoph.)
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Plate for electrolytic cells. No. 1,348,206; Aug. 3; v. 277; p. 14.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic cell. No. 1,348,207; Aug. 3; v. 277; p. 14.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical precipitating system. No. 1,349,362; Aug. 10; v. 277; p. 292.
Church, Edmund S., Chicago, Ill. Oil-can. No. 1,350,702; Aug. 24; v. 277; p. 672.
Churchill, Frank H., *et al.* (See Sanders, John F., assignor.)
Churchward, Alexander, New York, N. Y. Starting mechanism for internal-combustion engines. No. 1,350,708; Aug. 24; v. 277; p. 673.
Ciselet, Edgard, and C. Deguide, Brussels, Belgium. Purification of distillation-gases of coal. No. 1,349,750; Aug. 17; v. 277; p. 442.
Clapp, E. H., Rubber Company. (See Pratt, William B., assignor.)
Clarenbach, Louis, Passaic, N. J. Textile-fabric-treating machine. No. 1,351,621; Aug. 31; v. 277; p. 914.
Clark, Edward O., assignor of one-half to E. S. Redeker, Spokane, Wash. Piston-ring clamp. No. 1,350,704; Aug. 24; v. 277; p. 673.
Clark, Ezra E., Newton, Mass. Dry-pipe valve. No. 1,348,981; Aug. 10; v. 277; p. 216.
Clark, John, Flint, Mich. Ice-cream freezer. No. 1,351,622; Aug. 31; v. 277; p. 915.
Clark, John G. (See Allen, Guy L., assignor.)
Clark, Melville A., Syracuse, N. Y. Harp. No. 1,351,468; Aug. 31; v. 277; p. 685.
Clarke, Athol W., Chorlton-cum-Hardy, near Manchester, England. Apparatus for recording or indicating the movements of a mass. No. 1,350,705; Aug. 24; v. 277; p. 673.
Clarke, Elmer E., *et al.* (See Heiliger, Paul, assignor.)
Clarke, Frederick F., assignor to Colburn Machine Tool Company, Franklin, Pa. Center-indicating device. No. 1,351,504; Aug. 31; v. 277; p. 891.
Clarke, Lyman J., *et al.* (See Heiliger, Paul, assignor.)
Clarke, Norman C. (Reissue.) (See Anderson, W. P., Clarke and Whitelaw.)
Clarkson, Thomas, Chelmsford, England. Feed-water supply apparatus for steam-generators. No. 1,350,988; Aug. 24; v. 277; p. 726.
Clasen, Claus J. W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Railway side frame. No. 1,351,326; Aug. 31; v. 277; p. 856.
Claus, Emil L., Milwaukee, Wis. Torch-distributer head. No. 1,348,390; Aug. 3; v. 277; p. 51.
Clauss, Edward P., Lyons, N. Y. Cut-off and relief valve for air-brakes. No. 1,350,138; Aug. 17; v. 277; p. 515.
Clay, John D., Port Washington, N. Y. Circuit-closer. No. 1,348,208; Aug. 3; v. 277; p. 15.
Clayton, William, Toronto, Ontario, Canada. Bracket-support for roller-blinds. No. 1,351,286; Aug. 31; v. 277; p. 848.
Clemens Electrical Corporation. (See Clemens, John G., assignor.)
Clemens, John G., assignor to Clemens Electrical Corporation, Buffalo, N. Y. Refillable fuse-plug. No. 1,348,391; Aug. 3; v. 277; p. 51.
Clement, Edward E., Washington, D. C., assignor, by mesne assignments, to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,348,200; Aug. 3; v. 277; p. 15.
Cleveland-Akron Bag Company, The. (See Rose, Maxwell C., assignor.)
Cleveland, David P., assignor to Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Heating apparatus. No. 1,349,943; Aug. 17; v. 277; p. 477.
Cleveland, Edgar W., Holland, Mich. Journal adjustment for arms of multiple-spindle drills. No. 1,350,004; Aug. 17; v. 277; p. 490.
Cleveland Macaroni Company, The. (See Gammel, Karl, assignor.)
Cleveland Tractor Company, The. (See Strait, William, assignor.)
Cleveland Tractor Company, The. (See White, Rollin H., assignor.) (Reissue.)
Clevenger, Galen H., Colorado Springs, Colo., and M. H. Caron, Weltevreden, Java, Dutch East Indies, assignors to Research Corporation of New York, N. Y. Treating oxid ores of manganese. No. 1,349,322; Aug. 10; v. 277; p. 284.
Cliffe, Eliza T. S., Mansfield, Ohio. Automatic delivery system. No. 1,351,413; Aug. 31; v. 277; p. 874.
Clopton, William H., Washington, D. C. Screw-lock. No. 1,350,139; Aug. 17; v. 277; p. 516.
Clucker, Albert S., New York, N. Y. Vehicle-bumper. No. 1,349,117; Aug. 10; v. 277; p. 243.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Apparatus for cracking hydrocarbons. No. 1,348,264; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,348,265; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,348,266; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,348,267; Aug. 3; v. 277; p. 27.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Apparatus for cracking hydrocarbons. No. 1,348,268; Aug. 3; v. 277; p. 28.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,349,815; Aug. 17; v. 277; p. 453.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,349,816; Aug. 17; v. 277; p. 453.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,349,817; Aug. 17; v. 277; p. 454.
Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa. Collapsible core-bar. No. 1,348,982; Aug. 10; v. 277; p. 217.
Coatsworth, Louis, Chicago, Ill., assignor to Safety Projector & Film Co., Portland, Me. Film-gate for motion-picture machines. No. 1,348,626; Aug. 3; v. 277; p. 96.
Cobb, Charles H., Great Falls, Mont. Railway signal-lamp. No. 1,350,357; Aug. 24; v. 277; p. 604.
Cobb, Henry Z., assignor to The Mechanical Rubber Company, New York, N. Y. Process and apparatus for producing a hollow rubber biscuit. No. 1,349,560; Aug. 17; v. 277; p. 404.
Cobb, Schuyler C. (See Frasier, George E., assignor.)
Cochrane, Frederick I., Minneapolis, Minn., assignor to Crank Case Evaporator Company. Crank-case evaporator. No. 1,351,716; Aug. 31; v. 277; p. 932.
Cockroft, Irving R., Alameda, Calif. Pump. No. 1,351,505; Aug. 31; v. 277; p. 891.
Cocks, John H., Morenci, Ariz. Support for hammer-machine drills. No. 1,349,047; Aug. 10; v. 277; p. 230.
Cody, Harold B., Palm Springs, Calif. Pneumatic-tire-filling device. No. 1,350,068; Aug. 17; v. 277; p. 502.
Coe, Charles T., Kearney, N. J., assignor, by mesne assignments, to Diamond Power Specialty Company, Detroit, Mich. Tube-cleaner. No. 1,348,542; Aug. 3; v. 277; p. 80.
Coes, Harold V. (See Rhodes, G. I., and Coes.)
Coffey, Jacob E., Casey, Ill. Automobile-lifter. No. 1,351,506; Aug. 31; v. 277; p. 892.
Coffman, Joseph H., Americus, Ga. Automobile-cowl attachment. No. 1,349,715; Aug. 17; v. 277; p. 435.
Cogburn, Robert H., McKinney, Tex. Cotton-chopper. No. 1,349,266; Aug. 10; v. 277; p. 273.
Cohn, Max J., Chicago, Ill. Locking device for engine-starting cranks. No. 1,351,095; Aug. 31; v. 277; p. 810.
Cohoe, Wallace P. (See Pease, H. D., and Cohoe.)
Colburn, Machine Tool Company. (See Clarke, Franklin F., assignor.)
Colburn Machine Tool Company. (See Head, Ernest C., assignor.)
Colburn, Temple H., Minneapolis, Minn. Soap-cake retainer. No. 1,350,784; Aug. 24; v. 277; p. 688.
Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,349,363; Aug. 10; v. 277; p. 292.
Cole, David, El Paso, Tex., assignor to Minerals Separation North American Corporation, New York, N. Y. Apparatus for separating or concentrating ores. No. 1,351,006; Aug. 31; v. 277; p. 810.
Cole, Edward P., Chicago, Ill. Casing for metal thermometers and the like. No. 1,348,210; Aug. 3; v. 277; p. 15.
Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Plug-cut-out base. No. 1,351,203; Aug. 31; v. 277; p. 831.
Coleman, James M., assignor of one-fourth to J. W. Coleman, Montreal, Quebec, Canada. Car-end reinforcement. No. 1,348,482; Aug. 3; v. 277; p. 69.
Coleman, James W. (See Coleman, James M., assignor.)
Coleman, Thomas A., Blytheville, Ark. Balanced sheave. No. 1,351,469; Aug. 31; v. 277; p. 885.
Coles, Charles H., London, England. Electrical regulating-switch. No. 1,349,818; Aug. 17; v. 277; p. 454.
Coles, Walter H., Troy, Ohio. Lawn-sprinkling device. No. 1,349,874; Aug. 17; v. 277; p. 465.
Collins, Allison B., Denver, Colo. Shade-roller-operating mechanism. No. 1,348,928; Aug. 10; v. 277; p. 206.
Collins, Cap B., Sioux Falls, S. D. Rotary safety-razor. No. 1,351,507; Aug. 31; v. 277; p. 892.
Collins, George J. S., Peoria, Ill. Cylinder-block holder. No. 1,351,232; Aug. 31; v. 277; p. 837.
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Knotter. No. 1,348,929; Aug. 10; v. 277; p. 207.
Colmar Burner Company, The. (See Smith, Harry M., assignor.)
Colmar Burner Company, The. (See Yeager, Matthias S., assignor.)

Columbia Graphophone Manufacturing Company. (See Scully, John J., assignor.)
Columbus McKinnon Chain Company, The. (See Christie, Edwin C., assignor.)
Combs, Binny F., East Berkshire, Vt. Identification-marker for receptacles such as milk-cans. No. 1,348,628; Aug. 3; v. 277; p. 97.
Commercial Cars Construction Company. (See Rogers, Solomon D., assignor.)
Compac Tent Company. (See Eberhardt, Ferdinand, assignor.)
Cone, Thomas H. S., Boundbrook, N. J. Testing system. No. 1,350,358; Aug. 24; v. 277; p. 605.
Conerty, Patrick F. (See Litzinger, L. P., Conerty, and Snodgrass.)
Congdon, George A., Somerville, Mass. Slumber-wagon. No. 1,349,602; Aug. 17; v. 277; p. 412.
Conili, Fernan, New York, N. Y. Massage implement. No. 1,349,495; Aug. 10; v. 277; p. 318.
Conine, James B., Fort Worth, Tex. General-delivery post-office cabinet. No. 1,351,372; Aug. 31; v. 277; p. 866.
Conklin, Dewitt C., Mount Arlington, N. J. Heating-stove. No. 1,349,603; Aug. 17; v. 277; p. 413.
Conlee, Cheever C., Dayton, Ohio. Audible signal for motor-vehicles. No. 1,348,930; Aug. 10; v. 277; p. 207.
Conlin, Frederick, Elizabeth, N. J. Marine torpedo. No. 1,348,152; Aug. 3; v. 277; p. 4.
Conners, George H. (See Couch, E. H., and Conners.)
Connor, Clyde O., assignor of one-half to D. Harr, Wichita, Kans. Power-driven hair-clipper. No. 1,350,005; Aug. 17; v. 277; p. 490.
Conover, Claude A., Newburgh, N. Y. Detachable tooth. No. 1,351,623; Aug. 31; v. 277; p. 915.
Conrad, Joshua C. (See Stokes, R. C., and Conrad.)
Conti, Pietro A., Nevada City, Calif. Window-wiper. No. 1,349,118; Aug. 10; v. 277; p. 243.
Continental Can Co. (See Kronquest, A. L., and Taliaferro.)
Continental Motors Corporation. (See Weinhardt, Robert A., assignor.)
Conway, James E. (See Farmer, James, assignor.)
Cook, Albert E., Chicago, Ill. Truck attachment for automobiles. No. 1,350,006; Aug. 17; v. 277; p. 490.
Cook, Charles M., Rochester, N. H. Shoe-fastener. No. 1,348,392; Aug. 3; v. 277; p. 52.
Cook, Frederick, Chicago, Ill. Combination refrigerator and table. No. 1,351,097; Aug. 31; v. 277; p. 810.
Cook, Gorman R., Alpine, Ala. Plow and cultivator converting attachment. No. 1,348,782; Aug. 3; v. 277; p. 125.
Cook, Joseph S., Tacoma, Wash. Jack for automobiles. No. 1,348,627; Aug. 3; v. 277; p. 97.
Cook, Robert N., Aspinwall, Pa. Releasing crank mechanism for internal-combustion engines. No. 1,348,931; Aug. 10; v. 277; p. 207.
Cook, Stanley S. (See Parsons, C. A., and Cook.)
Cook, Walter H., London, England. Combined nut and washer. No. 1,350,545; Aug. 24; v. 277; p. 642.
Cook, Willard J., Des Moines, Iowa. Manure-spreader. No. 1,350,296; Aug. 24; v. 277; p. 592.
Cook, William M., Warren, Ohio. Auto-jack. No. 1,348,851; Aug. 10; v. 277; p. 191.
Cooke, Neil A. (See Miller, William L., and E. A. F., Jr., assignors.)
Cooley, Fred W., Minneapolis, Minn. Tone-modifier for talking-machines. No. 1,349,604; Aug. 17; v. 277; p. 413.
Cooley, James F., Richmond, Calif. Self-assisting apparatus for invalids. No. 1,350,297; Aug. 24; v. 277; p. 592.
Cooper, Hugh S., Cleveland, Ohio, assignor, by mesne assignments, to Zircon Tool & Alloy Corporation. Alloy. No. 1,350,359; Aug. 24; v. 277; p. 605.
Cooper, Isaac N., Fort Worth, Tex. Fire-extinguisher for oil-tanks and the like. No. 1,349,048; Aug. 10; v. 277; p. 230.
Cooper, Leslie J., Los Angeles, Calif. Auxiliary-spark-lever control. No. 1,349,944; Aug. 17; v. 277; p. 478.
Cooper, Simon, Brooklyn, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Labeling-machine. No. 1,351,024; Aug. 31; v. 277; p. 796.
Cooper, Simon, Brooklyn, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Package-wrapping machine. No. 1,351,025; Aug. 31; v. 277; p. 797.
Cooper, William F., New Orleans, La. Cotton-picker. No. 1,351,373; Aug. 31; v. 277; p. 866.
Cope, Charles G., Pittsburgh, Pa. Auxiliary gripper. No. 1,350,140; Aug. 17; v. 277; p. 516.
Copeland, Eugene A. (See Hobbs, C. W., and Copeland.)
Copeman Electric Stove Company. (See Copeman, Lloyd G., assignor.)
Copeman, Lloyd G., assignor to Copeman Electric Stove Company, Flint, Mich. Adjustable thermostat. No. 1,349,364; Aug. 10; v. 277; p. 293.
Copley, Almon W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of distribution for railway feeder-circuits. No. 1,340,365; Aug. 10; v. 277; p. 293.
Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,351,327; Aug. 31; v. 277; p. 857.
Cordell, Frank N., St. Louis, Mo. Tire-abrader. No. 1,349,366; Aug. 10; v. 277; p. 293.
Corder, Waitman D., Philippi, W. Va. Suspender. No. 1,351,553; Aug. 31; v. 277; p. 901.
Corduan, Adolph, Roselle Park, N. J. Needle-threader for sewing-machines. No. 1,350,592; Aug. 24; v. 277; p. 652.
Core, Elijah B., Yonkers, N. Y. Photographic-negative-developing frame. No. 1,348,153; Aug. 3; v. 277; p. 4.
Corell, Clifton B., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,349,561; Aug. 17; v. 277; p. 404.
Corley, Peter, Brooklyn, N. Y. Ash-sifter. No. 1,348,788; Aug. 3; v. 277; p. 126.
Cornett, William P., *et al.* (See Roberts, John W., assignor.)
Cornu, Ami, La Chaux-de-Fonds, Switzerland. Clasp. No. 1,350,785; Aug. 24; v. 277; p. 688.
Cornwall, Charles. (See Deming, W. L., and Cornwall.)
Corona Typewriter Company. (See Tucker, Benjamin W., assignor.)
Corsepius, George W., Downey, Idaho. Sled-runner attachment for automobiles. No. 1,350,069; Aug. 17; v. 277; p. 502.
Corson, David, Jr., Mount Union, Pa. Sea-dirigible. No. 1,350,211; Aug. 17; v. 277; p. 530.
Corwin, Allen W., Wellsville, N. Y. Trailer-coupling. No. 1,351,098; Aug. 31; v. 277; p. 810.
Coscia, Charles P., Pittsburgh, Pa. Shoe. No. 1,351,414; Aug. 31; v. 277; p. 874.
Cosey, Henry M., Flint, Mich. Switch-operating mechanism. No. 1,350,786; Aug. 24; v. 277; p. 689.
Cosgray, Mark C., assignor to The Matthews Engineering Company, Sandusky, Ohio. Electric system. No. 1,350,437; Aug. 24; v. 277; p. 620.
Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing-machine. No. 1,350,298; Aug. 24; v. 277; p. 593.
Coshow, Oliver P., *et al.* (See Sanders, John F., assignor.)
Coss, Frank C. (See Hipkins, J. H., and Coss.)
Costa, Anthony, East Cleveland, assignor to The Gravity Carbureter Company, Cleveland, Ohio. Oiling system. No. 1,350,643; Aug. 24; v. 277; p. 661.
Costello, Joseph, New York, N. Y. Necktie. No. 1,349,187; Aug. 10; v. 277; p. 257.
Costigan, Charles A., Oakland, Calif. Dispensing apparatus. No. 1,348,269; Aug. 3; v. 277; p. 28.
Cotton, James H. (See Martin, C. C., and Cotton.)
Couch, Elbert L., Farmington, and G. H. Conners, Hartford, Conn. Cigar. No. 1,349,147; Aug. 10; v. 277; p. 249.
Coulson, William T., Anerley, London, England. Construction of illuminating devices. No. 1,348,698; Aug. 3; v. 277; p. 110.
Coulson, William T., Anerley, London, England. Construction of lenses for lamps, projectors, and the like. No. 1,350,957; Aug. 24; v. 277; p. 721.
Coumerilh, John W., Mullan, Idaho. Oven-shelf. No. 1,351,415; Aug. 31; v. 277; p. 874.
Couture, Josaphat, Hull, Quebec, Canada. Identification means. No. 1,350,070; Aug. 17; v. 277; p. 503.
Corino, Isaac, West New York, N. J. Aeroplane. No. 1,348,983; Aug. 10; v. 277; p. 217.
Cowles, C., & Co. (See Hart, Franklin H., assignor.)
Cowley, James T., Minot, assignor to The Lamson Company, Boston, Mass. Conveyer. No. 1,351,554; Aug. 31; v. 277; p. 902.
Cox, Allen E., assignor of one-fourth to J. C. Allen and one-fourth to R. C. Evans, Portland, Oreg. Lock. No. 1,350,989; Aug. 24; v. 277; p. 726.
Cox, Arthur, Olton, near Birmingham, England. Carbureter. No. 1,351,624; Aug. 31; v. 277; p. 915.
Cox, Nathan G., Livengood, Alaska. Flying-cruiser. No. 1,349,323; Aug. 10; v. 277; p. 284.
Craig, Clyde L., Washington Court House, Ohio. Float-valve. No. 1,349,267; Aug. 10; v. 277; p. 274.
Craighead, James R., Schenectady, N. Y., assignor to General Electric Company. Power-limiting system. No. 1,350,921; Aug. 24; v. 277; p. 713.
Craighead, James R., and H. R. Summerhayes, Schenectady, N. Y., assignors to General Electric Company. Electrical system of power transmission. No. 1,350,920; Aug. 24; v. 277; p. 713.
Crane, Frederick G., *et al.* (See Hammond, Grant, assignor.)
Crane, Robert W., Los Angeles, Calif. Hinge. No. 1,350,360; Aug. 24; v. 277; p. 605.
Cranford, Frederick L. (See Meem, James C., assignor.)
Crank Case Evaporator Company. (See Cochrane, Frederick I., assignor.)
Cranshaw, Harold B., Boston, Mass. Roll-paper guard and cutter. No. 1,351,555; Aug. 31; v. 277; p. 902.
Crapo, Stanford T., and J. R. Jenkins, assignors to Huron Portland Cement Company, Detroit, Mich. Cargo-storage for boats and unloading mechanism therefor. No. 1,351,026; Aug. 31; v. 277; p. 797.
Crawford, Gilbert H., Brooklyn, assignor to De La Vergne Machine Company, New York, N. Y. Method and apparatus for measuring the capacity of refrigerating plants. No. 1,349,409; Aug. 10; v. 277; p. 301.
Crawford, William E., Chapin, Iowa. Device for holding hayracks. No. 1,349,486; Aug. 10; v. 277; p. 318.
Creveling, John L. (See Milne, G. G., and Creveling.)
Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric regulation. No. 1,348,348; Aug. 3; v. 277; p. 43.

Crisman, Charles A. (See Sharpnack, M. C., and Crisman.)
Crocker-Wheeler Company. (See Brady, William F., assignor.)
Crockett, Arthur, Kansas City, Mo. Trap-gun. No. 1,348,543; Aug. 3; v. 277; p. 80.
Crockett, William P., Harrison, N. J., assignor to The Singer Manufacturing Company. Skiving-machine. No. 1,349,119; Aug. 10; v. 277; p. 243.
Crofton, Wilfred B., Yeoville, Johannesburg, South Africa. Internal-combustion engine. No. 1,348,393; Aug. 3; v. 277; p. 52.
Crompton, Frank E., Brooklyn, assignor to Signature Company, New York, N. Y. Binder-board. No. 1,350,141; Aug. 17; v. 277; p. 516.
Crompton & Knowles Loom Works. (See Crossland, George, assignor.)
Crompton & Knowles Loom Works. (See Hutchins, Allan S., assignor.)
Cronau, Otto, New York, N. Y. Relieving attachment for lathes. No. 1,350,361; Aug. 24; v. 277; p. 605.
Cronin, Charles I., *et al.*, executors. (See Hirst, Charles S.)
Crosby, Kenneth W., trustee. (See Baker, Malcolm H., assignor.)
Crosbie, Martin J., New York, N. Y. Fishline attachment. No. 1,351,625; Aug. 31; v. 277; p. 915.
Cross, Alonzo T., Providence, R. I. Fountain-pen-filling device. No. 1,348,211; Aug. 3; v. 277; p. 15.
Cross, Harry N., Stockton, Calif. Dust-fuel carburetor. No. 1,349,751; Aug. 17; v. 277; p. 442.
Crossland, George, Jessups, Md., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Carpet-weaver. No. 1,349,367; Aug. 10; v. 277; p. 293.
Crouch, Thomas E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Rim night-latch. No. 1,350,299; Aug. 24; v. 277; p. 593.
Crouse-Hinds Company. (See Bissell, C. H., and Smith, assignors.)
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crowder, Philip, North Weymouth, Mass. Appliance. No. 1,349,368; Aug. 10; v. 277; p. 294.
Crowell, Charles H., Brooklyn, N. Y. Thread-reinforced-paper gummed tape. No. 1,351,374; Aug. 31; v. 277; p. 866.
Crowle, William J., Easton, Pa. Box-motion for looms. No. 1,351,099; Aug. 31; v. 277; p. 810.
Crown Cork and Seal Company of Baltimore City. (See Taylor, Samuel W., assignor.)
Crown Maltose Company. (See Stutzke, Richard W. G., assignor.)
Croxson, Edward C. S. (See Spicer, G., and Croxson.)
Cru Patents Corporation. (See Wenderhold, William, assignor.)
Crumpacker, Jay, McPherson, Kans. Automatic nailing-hammer. No. 1,348,544; Aug. 3; v. 277; p. 80.
Crumpton, William J., Evanston, Ill. Interrupter spark-suppression method and device. No. 1,350,300; Aug. 24; v. 277; p. 593.
Crumpton, William J., Evanston, Ill., assignor to W. R. Heath, Buffalo, N. Y. Register. No. 1,349,049; Aug. 10; v. 277; p. 230.
Crush, Ernest H., Bickley, England. Gas-producer. No. 1,349,497; Aug. 10; v. 277; p. 319.
Culver, Charles B., Cherry Valley, Ill. Tread-mill play-cart. No. 1,350,546; Aug. 24. v. 277; p. 642.
Cumfer, Harry A., Chicago, Ill. Pipe-fitting. No. 1,349,663; Aug. 17; v. 277; p. 424.
Cummings, Dickinson S. (See Pierce, John, Jr., assignor.)
Cummings, Henry H., Newton, Mass., assignor of one-half to John T. Thompson, Newport, Ky., and one-half to Thomas F. Ryan, New York, N. Y. Gun lubrication. No. 1,351,626; Aug. 31; v. 277; p. 916.
Cummings, Wilbur E., Hollywood, Calif. Auto spring-bed. No. 1,349,268; Aug. 10; v. 277; p. 274.
Cunningham, Michael F., *et al.* (See McGrath, Lawrence A., assignor.)
Cunningham, Thomas, Philadelphia, Pa. Yarn-waxing device. No. 1,350,007; Aug. 17; v. 277; p. 490.
Cunnyngham, Victor L., Chicago, Ill. Advertising record-chart. No. 1,348,349; Aug. 3; v. 277; p. 43.
Cupp, Harry N., Mars, assignor of one-half to T. G. Monahan, Pittsburgh, Pa. Valve. No. 1,349,605; Aug. 17; v. 277; p. 413.
Currier, Burleigh, *et al.* (See Bartlett, Percy H., assignor.)
Currier, George A., St. Louis, Mo. Rotary plow. No. 1,349,875; Aug. 17; v. 277; p. 465.
Curry, Malcolm, Scarsdale, N. Y., assignor of one-half to S. H. Barnum, New Haven, Conn. Observation-window for furnaces. No. 1,349,562; Aug. 17; v. 277; p. 405.
Curtin, Frank, assignor to Curtin-Hebert Company, Inc., Gloversville, N. Y. Hosiery-tipping plate. No. 1,349,410; Aug. 10; v. 277; p. 302.
Curtin-Hebert Company. (See Curtain, Frank, assignor.)
Curtis, Arthur P., assignor to Ithaca Gun Company, Ithaca, N. Y. Bolting mechanism for guns. No. 1,348,545; Aug. 3; v. 277; p. 80.
Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Kleckler, Henry, assignor.)
Cushman, Sarah W., Norwich, N. Y. Garment-button. No. 1,348,629; Aug. 3; v. 277; p. 97.
Custenborder, John M., Mackinaw, Ill. Tractor steering device. No. 1,348,630; Aug. 3; v. 277; p. 97.
Cutler, Charles A., Adrian, Mich. Animal-poke. No. 1,349,324; Aug. 10; v. 277; p. 285.
Cutler, William C., North Glendale, Calif. Card-suspending device. No. 1,348,546; Aug. 3; v. 277; p. 81.
Cutting, Charles H., Alameda, Calif. Milk-strainer. No. 1,349,120; Aug. 10; v. 277; p. 244.
Dabrowski, Joseph M., Brooklyn, N. Y., assignor to Moore Brothers Company, New York, N. Y. Liquid-soap dispenser. No. 1,349,121; Aug. 10; v. 277; p. 244.
Dahlke, Frederick J., Damascus, Ohio. Refrigerator. No. 1,349,369; Aug. 10; v. 277; p. 294.
D'Albe, Edmund E. F. (See Barr, A., Stroud, and D'Albe.)
Dalén, Gustaf, Lidingön, assignor to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden. Search-light apparatus. No. 1,350 547; Aug. 24; v. 277; p. 642.
Damon, William H., Los Angeles, Calif. Non-cumulative wax polish. (Reissue.) No. 14,930; Aug. 17; v. 277; p. 545.
Dandoy, John J. (See McDonnell, George F., assignor.)
Dandy, Mike, Burdine, Ky. Sanding device. No. 1,349,606; Aug. 17; v. 277; p. 413.
Danielsson, Axel, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Ball-cage for axial-thrust ball-bearings. No. 1,351,160; Aug. 31; v. 277; p. 822.
Danke, Arthur E., Neenah, Wis., assignor to Sterling Manufacturing Company, Sterling, Ill. Hay-loader. No. 1,348,212; Aug. 3; v. 277; p. 16.
Dansk Staalbeholder Fabrik Akts. (See Flint, Charles F. V., assignor.)
Danville Brick Company, The. (See Wood, Frank W., assignor.)
Darby, John, assignor of one-half to E. F. Flindell, Summit, N. J. Film gate and tension means for motion-picture machines. No. 1,350,548; Aug. 24; v. 277; p. 642.
Darier, Georges, Chêne, near Geneva, and C. Goudet, assignors to Société d'Etudes Chimiques pour l'Industrie, Geneva, Switzerland. Preventing danger of explosion in the preparation and handling of dangerous explosive substances. No. 1,349,411; Aug. 10; v. 277; p. 302.
Darkes, David J., Fredericksburg, Pa. Snap-hook. No. 1,350,787; Aug. 24; v. 277; p. 689.
Darley, John W., Jr., Baltimore, Md. Fuse for projectiles. No. 1,351,416; Aug. 31; v. 277; p. 874.
Darley, William S., Chicago, Ill. Instrument for locating buried objects. No. 1,351,556; Aug. 31; v. 277; p. 902.
Datta, Rasik L., Calcutta, India. Manufacture of caffein. No. 1,350,092; Aug. 17; v. 277; p. 507.
Daum, Albert F., Pittsburgh, Pa. Fuse-plug. No. 1,351,204; Aug. 31; v. 277; p. 832.
Davidenis, Terentie, Detroit, Mich. Ship-salvage device. No. 1,351,100; Aug. 31; v. 277; p. 811.
Davidson, George R., Lenox, Mich. Steering-wheel lock. No. 1,348,547; Aug. 3; v. 277; p. 81.
Davidson, Harry O., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Concrete-form. No. 1,349,819; Aug. 17; v. 277; p. 454.
Davidson, Joseph, East Point, Ga. Fluid-pressure valve. No. 1,350,438; Aug. 24; v. 277; p. 621.
Davidson, Joseph, Greenville, S. C., assignor of one-half to American Machine & Manufacturing Company, Lint-collecting system. No. 1,350,439; Aug. 24; v. 277; p. 621.
Davies, Llewellyn J., Twin Lakes, Colo. Multiple-wheel drive for tractors. No. 1,350,071; Aug. 17; v. 277; p. 503.
Davis, Charles B., *et al.* (See Tisdell, Frank J., assignor.)
Davis, Charles E., Battle Creek, Mich. Clothesline-prop. No. 1,349,325; Aug. 10; v. 277; p. 285.
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,350,706; Aug. 24; v. 277; p. 673.
Davis, Charles T., New York, N. Y. Poison-tablet. No. 1,349,326; Aug. 10; v. 277; p. 285.
Davis, Claude B., assignor of one-half to M. Allen, and one-fourth to W. T. Bragg, Richmond, Va. Toll-collecting mechanism. No. 1,350,958. Aug. 24; v. 277; p. 721.
Davis, Daniel B., Marion, Ind. Spring device. No. 1,349,327; Aug. 10; v. 277; p. 285.
Davis, David C., Wilkinsburg, and C. L. Fortescue, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Co. Relay. No. 1,351,027; Aug. 31; v. 277; p. 797.
Davis, Edward W., Duluth, Minn. Apparatus for agglomerating ores. No. 1,350,440; Aug. 24; v. 277; p. 622.
Davis, Elmer A., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Expansion-joint for electric-current-collector bars. No. 1,350,856; Aug. 24; v. 277; p. 701.
Davis, F. M. (See Dillon, Robert L., assignor.)
Davis, Frank E., Bremerton, Wash. Shade for auto headlamps. No. 1,350,212; Aug. 17; v. 277; p. 530.
Davis, Frank S. (See Gow, J. M., and Davis.)
Davis, George P., Fresno, Calif. Typesetting-machine. No. 1,350,707; Aug. 24; v. 277; p. 673.
Davis, Hanley M., Cambridge, Mass. Fire-escape. No. 1,350,708; Aug. 24; v. 277; p. 674.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,350,093; Aug. 17; v. 277; p. 507.

Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Cam for looms. No. 1,350,094; Aug. 17; v. 277; p. 507.
Davis, Jacob, Cleveland, Ohio. Hanger or coupling. No. 1,350,008; Aug. 17; v. 277; p. 490.
Davis, Lila S., Madison, Fla. Button-snap. No. 1,348,699; Aug. 3; v. 277; p. 110.
Davis, Madison T., Jr., assignor to Kanawha Manufacturing Company, Charleston, W. Va. Furnace-grate. No. 1,350,990; Aug. 24; v. 277; p. 727.
Davis, Robert W., Hiltonia, N. J. Right-angle power transmission. No. 1,351,470; Aug. 31; v. 277; p. 885.
Davis, Theron, New York, N. Y. Incandescent electric lamp. No. 1,348,350; Aug. 3; v. 277; p. 43.
Davis, Verner F., Orange, N. J., assignor to P. D. Peters, Little Falls, N. Y. Heater for incubators. No. 1,348,784; Aug. 3; v. 277; p. 126.
Davis, William C., Melbourne, Victoria, Australia. Reinforced concrete construction. No. 1,348,483; Aug. 3; v. 277; p. 69.
Dawley, James C. (See Ripsch, C. W., and Dawley.)
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Recoil apparatus of ordnance. No. 1,350,593; Aug. 24; v. 277; p. 652.
Dawson Manufacturing Company. (See Dawson, Sidney, assignor.)
Dawson, Sidney, assignor to Dawson Manufacturing Company, Chicago, Ill. Grease-cup. No. 1,348,154; Aug. 3; v. 277; p. 4.
Dawson, William G., Mount Vernon, N. Y. Washing-machine. No. 1,349,370; Aug. 10; v. 277; p. 294.
Day, Charles T., Oceanport, N. J. Wire-stripper. No. 1,349,563; Aug. 17; v. 277; p. 405.
Day, George H., Cuba, Ill. Apparatus for continuously separating juices from materials. No. 1,350,788; Aug. 24. v. 277; p. 689.
Day, George H., assignor to E. Kirstein Sons Company, Rochester, N. Y. Ophthalmic mounting. No. 1,348,155; Aug. 3; v. 277; p. 4.
Dayton Engineering Laboratories Company, The. (See Mooney, William H., assignor.)
Daywitt, Albert N., Frankfort, Ind. Road-grader. No. 1,349,498; Aug. 10; v. 277; p. 319.
Dean, Charles L., Denver, Colo. Drying solutions. No. 1,350,072; Aug. 17; v. 277; p. 503.
Dean, William W., Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y. Frictional governor. No. 1,349,050; Aug. 10; v. 277; p. 230.
Dean, William W., Rochester, N. Y., assignor to Stromberg-Carlson Telephone Manufacturing Company. Telephone-receiver. No. 1,350,594; Aug. 24; v. 277; p. 652.
De Arozarena y Mendive, Roberto. (See Santoz y Suarez, Isaac.)
Deaver, Luther C., Culberson, N. C. Railway-rail coupling. No. 1,349,607; Aug. 17; v. 277; p. 413.
De Brayer, Alfred, Paris, France. Machine for printing or reproducing addresses and other typed or written matter. No. 1,349,807; Aug. 17; v. 277; p. 452.
De Camp, James W., Blackwell, Okla. Glass casket and carrier therefor. No. 1,349,412; Aug. 10; v. 277; p. 302.
De Cano, Victor M., Chicago, assignor of one-half to W. H. Hinz, Oak Park, and one-half to R. F. Starr, Chicago, Ill. Folding ironing-board. No. 1,350,857; Aug. 24; v. 277; p. 701.
Decker, George W., assignor of one-third to E. A. Kern and one-third to G. A. Friedricks, Erie, Pa. Stop and waste cock. No. 1,350,362; Aug. 24; v. 277; p. 605.
Decker, William M., Buffalo, N. Y. Cap for nursing-bottles and the like. No. 1,351,328; Aug. 31; v. 277; p. 857.
De Does, Peter J., assignor to The Toledo Parlor Furniture Company, Toledo, Ohio. Foldable bed-frame. No. 1,348,156; Aug. 3; v. 277; p. 5.
De Dominicis, Vincent, and F. A. Reip, East Orange, N. J. Aeroplane control. No. 1,348,548; Aug. 3; v. 277; p. 81.
Deere & Mansur Company. (See White, Charles E., assignor.)
De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Apparatus for amplifying pulsating electric currents. No. 1,348,157; Aug. 3; v. 277; p. 5.
De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Radio-telephone system. No. 1,348,213; Aug. 3; v. 277; p. 16.
De Forest Radio Telephone and Telegraph Company. (See De Forest, Lee, assignor.)
De Goenaga, Augusto H., Gobleville, Mich. Combined pocket-case and sterilizer for surgical instruments. No. 1,348,938; Aug. 10; v. 277; p. 208.
Deguide, Camille. (See Ciselet, E., and Deguide.)
De Khotinsky, Achilles, assignor to Central Scientific Company, Chicago, Ill. Circuit-controlling mechanism. No. 1,350,369; Aug. 24; v. 277; p. 606.
Delany, Patrick B., South Orange, N. J., and L. W. Shumaker, New York, N. Y., assignors to Telepost Company, New York, N. Y. Apparatus for treating telegraph-tape. No. 1,350 789; Aug. 24; v. 277; p. 689.
Delany, Patrick B., South Orange, N. J., and L. W. Shumaker, New York, N. Y., assignors to Telepost Company, New York, N. Y. Telegraphy. No. 1,350,790; Aug. 24; v. 277; p. 689.
De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
De La Vergne Machine Company. (See Crawford, Gilbert H., assignor.)
De La Vergne Machine Company. (See Price, William T., assignor.)
Dellert, Louis J., Brooklyn, N. Y. Suction-controlling device. No. 1,349,499; Aug. 10; v. 277; p. 319.
De los Monteros, Rafael E., New York, N. Y. Electric mercury-switch. No. 1,351,101; Aug. 31; v. 277; p. 811.
Del Valle, Antonio M., New York, N. Y. Centrifugal clarifier. No. 1,350,009; Aug. 17; v. 277; p. 491.
De Martino, Joseph, assignor to Mechanical Improvement Co., Chicago, Ill. Power-transmission mechanism. No. 1,349,328; Aug. 10; v. 277; p. 285.
Demerath, Joseph M., Rochester, N. Y. Nut-blanching machine. No. 1,350,549; Aug. 24; v. 277; p. 642.
Deming Company, The. (See Deming, W. L., and Cornwall, assignors.)
Deming, William L., and C. Cornwall, assignors to The Deming Company, Salem, Ohio. Spraying device. No. 1,348,631; Aug. 3; v. 277; p. 97.
Denby, Harry, Cleveland, Ohio. Wire-loom. No. 1,351,233; Aug. 31; v. 277; p. 837.
Dennehy, William H., *et al.* (See McGrath, Lawrence A., assignor.)
Denton, John, and A. L. Skinner, Bridgeport, Ill. Gas-regulator. No. 1,349,945; Aug. 17; v. 277; p. 478.
Denver Rock Drill Manufacturing Company, The. (See Scheib, Peter, assignor.)
Deppeler, John H., Weehawken, assignor to Metal & Thermit Corporation, Chrome, N. J. Method of and article for alloying tungsten. No. 1,350,709; Aug. 24; v. 277; p. 674.
Depue, Harold T., Kensington, Md. Combination-action for organs. No. 1,349,820; Aug. 17; v. 277; p. 454.
Dequede, William, New Orleans, La. Mop-wringer. No. 1,350,791; Aug. 24; v. 277; p. 690.
Désy, Louis A., Montreal, Quebec, Canada. Plowing-machine. No. 1,349,821; Aug. 17; v. 27; p. 454.
Detroit Automatic Scale Company. (See King, Bert W., assignor.)
Detroit Mechanical Engineering Company. (See Lavigne, Joseph P., assignor.)
Detroit Pressed Steel Company. (See Peltier, August O., assignor.)
Detroit Stove Works. (See Barbour, W. T., and Mersfelder, assignors.)
Devey, John, Lehi, Utah. Beet-topping machine. No. 1,351,287; Aug. 31; v. 277; p. 848.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Presser mechanisms for sewing-machines. No. 1,350,301; Aug. 24; v. 277; p. 593.
Dewey, Haywood G., Westminster, assignor to The Fred H. Knapp Company, Baltimore, Md. Can-boxing machine. No. 1,348,549; Aug. 3; v. 277; p. 81.
De Witt, George W. (See Nelson, Frank C., assignor.)
De Witt-La France Co. (See La France, D. J., and De Witt, assignors.)
De Witt, William P. (See La France, D. J., and De Witt.)
D'Humy, Fernand E., Englewood, N. J., assignor to Ramp Buildings Corporation, New York, N. Y. Storage-building. No. 1,349,664; Aug. 17; v. 277; p. 424.
D'Humy, Fernand E., Englewood, N. J. Electric-light fixture. No. 1,351,375; Aug. 31; v. 277; p. 867.
Diamond Electric Specialties Corp. (See Rosenfeld, Francis M., assignor.)
Diamond Match Company, The. (See Cooper, Simon, assignor.)
Diamond Match Company, The. (See Paridon, Michael, assignor.)
Diamond Match Company, The. (See Wright, Charles F., assignor.)
Diamond Power Specialty Company. (See Coe, Charles T., assignor.)
Diamond State Fibre Company. (See Taylor, John M., assignor.)
Dias, Gaspar G., New York, N. Y. Automatic advertising-bench. No. 1,348,852; Aug. 10; v. 277; p. 191.
Dick, Ralph H., C. F. Wolters, Marietta, Ohio, and R. B. Sutter, Newark, N. J., assignors to The Safe-Cabinet Company, Marietta, Ohio. Heat-resisting safe or cabinet. No. 1,350,363; Aug. 24; v. 277; p. 605.
Dickinson, Harry E., San Antonio, Tex. Adjustable split lock-nut or union. No. 1,350,142; Aug. 17; v. 277; p. 516.
Dickinson, William, Spokane, Wash. Rocking-horse. No. 1,348,785; Aug. 3; v. 277; p. 126.
Dickson, Horace L., Toronto, Ontario, Canada. Wrench. No. 1,348,632; Aug. 3; v. 277; p. 97.
Dickson, John, Vancouver, Wash. Pulverized-fuel-burning device. No. 1,349,148; Aug. 10; v. 277; p. 250.
Dickson, Mae S., Hubbard Woods, Ill. Can-opener. No. 1,348,484; Aug. 3; v. 277; p. 69.
Dicus, Charles M., Mill Spring, N. C. Road-scraper. No. 1,350,991; Aug. 24; v. 277; p. 727.
Diebolt, Lewis T., Logansport, Ind. Lock. No. 1,350,213; Aug. 17; v. 277; p. 530.
Diehl, Albert C., Pennauken, N. J., assignor to Victor Talking Machine Company. Sound-box for sound-reproducing and sound-recording machines. No. 1,350,595; Aug. 24; v. 277; p. 652.

Diehl, Albert C., Pensauken, N. J., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 1,350,596; Aug. 24; v. 277; p. 652.
Dietz, Emil, Indianapolis, Ind. Truck. No. 1,349,500; Aug. 10; v. 277; p. 319.
Dietz, Ernest. (See Price, W. B., and Dietz.)
Dietze, Carl H., Jr., Newark, N. J. Candle-holder. No. 1,350,710; Aug. 24; v. 277; p. 674.
Dietze, Emil, Brooklyn, N. Y. Box-strap-applying mechanism. No. 1,348,270; Aug. 3; v. 277; p. 28.
Dietze, Emil, Brooklyn, N. Y. Box-strap-fastening means. No. 1,348,271; Aug. 3; v. 277; p. 28.
Dietze, Emil, assignor to American Casting and Manufacturing Corporation, Brooklyn, N. Y. Key-lock box-strap fastener. No. 1,348,485; Aug. 3; v. 277; p. 69.
Dietzel, William, Merrick, N. Y. Electroplating apparatus. No. 1,349,549; Aug. 10; v. 277; p. 329.
Di Giacomo, Generoso, *et al.* (See Weigel, Philip A., assignor.)
Dillon, Robert L., assignor of fifty-one per cent. to F. M. Davis, Timpson, Tex. Colter. No. 1,351,376; Aug. 31; v. 277; p. 866.
Dilworth-Porter & Company. (See Morrison, Andrew, assignor.)
Di Milia, P. (See Paesano, Vincenzo, assignor.)
Dings, Myron, Milwaukee, Wis. Magnetic separator. No. 1,349,501; Aug. 10; v. 277; p. 319.
Dispot, Arthur, Paris, France. Coupling for coupling pumps to electric motors. No. 1,349,329; Aug. 10; v. 277; p. 286.
Dister, Joseph, Hamilton, Ohio, assignor to American Can Company, New York, N. Y. Can. No. 1,348,550; Aug. 3; v. 277; p. 81.
Ditson, Jesse, Littleton, Colo., assignor, by mesne assignments, to Ingersoll-Rand Company. Fluid-operated vise. No. 1,349,330; Aug. 10; v. 277; p. 286.
Dixon, John. (See Jobe, J. S., and Dixon.)
Dixon, John, Gary, Ind. Window-ventilator. No. 1,350,792; Aug. 24; v. 277; p. 690.
Dixon, John, Monaca, and J. M. Shaffer, New Brighton, assignors to United States Sanitary Manufacturing Company, Pittsburgh, Pa. Apparatus for coating castings. No. 1,348,351; Aug. 3; v. 277; p. 44.
Dixon, Samuel S., Detroit, Mich., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Sheet-feeding means for accounting and typewriting machines. No. 1,348,984; Aug. 10; v. 277; p. 217.
Dobbins, Laura M., Orange, N. J. Bedclothes-support. No. 1,351,557; Aug. 31; v. 277; p. 902.
Doble, Abner, assignor to Doble-Detroit Steam Motors Co., Detroit, Mich. Apparatus for burning fuel. No. 1,349,876; Aug. 17; v. 277; p. 465.
Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Liquid-fuel-ignition mechanism. No. 1,349,877; Aug. 17; v. 277; p. 465.
Doble-Detroit Steam Motors Company. (See Doble, Abner, assignor.)
Doble, Frank C., Winchester, Mass. High-tension telephone system. No. 1,350,922; Aug. 24; v. 277; p. 714.
Dochnal, Frank, St. Louis, Mo. Manufacturing of hollow tile and the like. No. 1,348,932; Aug. 10; v. 277; p. 207.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,349,822; Aug. 17; v. 277; p. 454.
Dodge, Charles C., assignor to The Park Drop Forge Company, Cleveland, Ohio. Counterbalanced crank-shaft. No. 1,351,417; Aug. 31; v. 277; p. 874.
Doehler Die Casting Company. (See Edlund, Conrad, assignor.)
Dolan, John P., assignor of two-thirds to J. M. Motto, Hartford, Conn. Clamp. No. 1,349,331; Aug. 10; v. 277; p. 286.
Dolbear, Clinton E., San Francisco, Calif. Purifying Magnesium compounds. No. 1,348,933; Aug. 10; v. 277; p. 207.
Domestic Sewing Machine Co. (See Riddell, George H. assignor.)
Domingues, Zacarias, Los Angeles, Calif. Garden sidehill-plow. No. 1,350,923; Aug. 24; v. 277; p. 714.
Donaldson, William H. L., St. Paul, Minn. Air-washer. No. 1,349,608; Aug. 17; v. 277; p. 414.
Dondo, Mathurin M., New York, N. Y. Marionette. No. 1,350,711; Aug. 24; v. 277; p. 674.
Donisthorpe, Frank W., Barnes, England. Color cinematography. No. 1,350,143; Aug. 17; v. 277; p. 516.
Donovan, Grover C., *et al.* (See Trapp, Charles L., assignor.)
Donovan, James P., Quincy, Mass. Handshield for riveters. No. 1,351,028; Aug. 31; v. 277; p. 797.
Doolittle, Orson W., Glenside, Pa. Lubricator. No. 1,348,551; Aug. 3; v. 277; p. 81.
Doran, Daniel A., assignor to M. I. Doran, Yonkers, N. Y. Mail-box and other device. No. 1,349,413; Aug. 10; v. 277; p. 302.
Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Extraction and mixed-pressure turbine. No. 1,349,878; Aug. 17; v. 277; p. 466.
Doran, Mary I. (See Doran, Daniel A., assignor.)
Dorau, John P., North Fond du Lac, Wis. Hub-jack. No. 1,349,502; Aug. 10; v. 277; p. 320.
Dorchek, Frank, Colorado Springs, Colo. Groceryman's box. No. 1,348,552; Aug. 3; v. 277; p. 82.
Dorffel, George, West Seattle, Wash. Lifeboat. No. 1,351,627; Aug. 31; v. 277; p. 916.
Dorneth, Julius, assignor to Typograph G. m. b. H., Berlin, Germany. Matrix setting and distributing machine. No. 1,350,793; Aug. 24; v. 277; p. 690.
Dorr Company, The. (See Peck, Charles L., assignor.)
Dosenbach, Benjamin H., deceased, Butte, Mont.; E. M. Dosenbach, executrix, assignor to E. M. Dosenbach. Ore concentration. No. 1,350,364; Aug. 24; v. 277; p. 606.
Dosenbach, Edna M., executrix. (See Dosenbach, Benjamin H.)
Doty, Walter G., assignor to The Wagner Engineering Company, Dayton, Ohio. Making machine elements. No. 1,348,158; Aug. 3; v. 277; p. 5.
Dougan, Kennedy, Minneapolis, Minn. Submarine gun. No. 1,349,414; Aug. 10; v. 277; p. 302.
Douglas, Harry A., Bronson, Mich. Circuit-continuing device. No. 1,348,394; Aug. 3; v. 277; p. 52.
Douglas, Harry A., Bronson, Mich. Circuit-continuing device. No. 1,348,395; Aug. 3; v. 277; p. 52.
Douglass, Napoleon B., Berkeley, Calif. Folding bed. No. 1,349,946; Aug. 17; v. 277; p. 478.
Dove, Walter T., U. S. Army. Artillery-truck. No. 1,350,644; Aug. 24; v. 277; p. 661.
Dow Chemical Company, The. (See Barstow, Edwin O., assignor.)
Dow Chemical Company, The. (See Dow, H. H., and Stroaaker, assignor.)
Dow, Floyd, assignor of one-half to L. D. Edminster, Wyanet, Ill. Pipe structure. No. 1,350,073; Aug. 17; v. 277; p. 503.
Dow, Herbert H., and C. J. Strosacker, assignors to The Dow Chemical Company, Midland, Mich. Making carbon disulfid. No. 1,350,858; Aug. 24; v. 277; p. 702.
Dowd, William C., Quincy, Ill. Centrifugal pump and the like. No. 1,348,633; Aug. 3; v. 277; p. 98.
Dowdle, John W., Mineral Springs, Ark. Tying device. No. 1,349,503; Aug. 10; v. 277; p. 320.
Dowell, Arthur E., Washington, D. C. Web-printing press. No. 1,348,553; Aug. 3; v. 277; p. 82.
Down, Norman B., Sewell, Chile, assignor to Braden Copper Company. Method of and apparatus for filtering. No. 1,348,159; Aug. 3; v. 277; p. 5.
Downie, James H., San Antonio, Tex. Transmission-gear. No. 1,348,160; Aug. 3; v. 277; p. 5.
Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Means for leveling and staying excavating-machines. No. 1,350,992; Aug. 24; v. 277; p. 727.
Doyle, Edward J. (See McCarthy, John H., assignor.)
Dozier, James C., Baton Rouge, La. Feeding mechanism for stapling-machines. No. 1,348,161; Aug. 3; v. 277; p. 6.
Drabers, William H., Niles, Ohio. Wall system. No. 1,351,471; Aug. 31; v. 277; p. 885.
Draper Corporation. (See Brown, Carl D., assignor.)
Draper Corporation. (See Davis, Harry A., assignor.)
Draper Corporation. (See Lacey, Fred, assignor.)
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Draper Corporation. (See Stone, Melvin L., assignor.)
Draper Corporation. (See Wild, Arnold, assignor.)
Draper, John M., Bridgend, England. Separator for the treatment of coal, clays, ores, and the like. No. 1,351,234; Aug. 31; v. 277; p. 837.
Drescher, Theodore R., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Manufacture of lenses. No. 1,350,441; Aug. 24; v. 277; p. 622.
Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Combustion-chamber. No. 1,348,486; Aug. 3; v. 277; p. 69.
Dringman, Ernest, Paxton, Nebr. Sand-guard for irrigation-ditches. No. 1,348,554; Aug. 3; v. 277; p. 82.
Drouillard, Elzear J., Detroit, Mich. Cone-rolling machine. No. 1,350,859; Aug. 24; v. 277; p. 702.
Drozd, Kazimierz, Willock, Pa. Breast-drill. No. 1,350,144; Aug. 17; v. 277; p. 516.
Dryden Rubber Company. (See Reeves, George C., assignor.)
Dubee, Adelard J., Glens Falls, N. Y. Threshold. No. 1,348,396; Aug. 3; v. 277; p. 52.
Dubilier, William, New York, N. Y. Self-protecting condenser. No. 1,350,010; Aug. 17; v. 277; p. 491.
Du Bois, Clarence L., Camden, N. J. Flexible-coupling disk. No. 1,350,011; Aug. 17; v. 277; p. 491.
Du Bois, Thomas R., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Engine starter and generator. No. 1,348,555; Aug. 3; v. 277; p. 82.
Du Buque, George F., Los Angeles, Calif. Dental appliance. No. 1,349,188; Aug. 10; v. 277; p. 258.
Ducksting, Julius, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,348,487; Aug. 3; v. 277; p. 69.
Dudley, Adolphus M. (See Barclay, D., and Dudley.)
Dudley, Raymond C. (See Lively, Benjamin F., assignor.)
Duffy, James P. B. (See Murphy, Thomas J., assignor.)
Dugan, Thomas, Wichita, Kans., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Harvester. No. 1,350,012; Aug. 17; v. 277; p. 491.
Duhem, R. A., and J. D. Grant, San Francisco, Calif. Producing stereoscopic effects in motion pictures. No. 1,351,508; Aug. 31; v. 277; p. 892.

Dukas, James K., Edwardsville, Pa. Fishing-net. No. 1,351,628; Aug. 31; v. 277; p. 916.
Du Lac, E., *et al.* (See Auger, Joseph T., assignor.)
Dulac, Oscar, Woonsocket, R. I. Nursing-bottle holder. No. 1,349,051; Aug. 10; v. 277; p. 230.
Duncan, Jay R., Kewanee, Ill. Game-cards. No. 1,349,189; Aug. 10; v. 277; p. 258.
Duncan, Jay R., Kewanee, Ill. Game-board. No. 1,349,190; Aug. 10; v. 277; p. 258.
Duncan, John Boone, Iowa. Car end construction. No. 1,350,442; Aug. 24; v. 277; p. 622.
Duncomb, Wolf H., Spokane, Wash. Direction-indicator. No. 1,349,191; Aug. 10; v. 277; p. 258.
Duncombe, Joseph, Salt Lake City, Utah. Sheep-protector and coyote-exterminator. No. 1,349,665; Aug. 17; v. 277; p. 425.
Dunham, Charles L., Pennsboro, W. Va. Underreamer. No. 1,348,853; Aug. 10; v. 277; p. 192.
Dunlop, Robert R., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric controller. No. 1,348,397; Aug. 3; v. 277; p. 53.
Dunlop Rubber Company, The. (See Macbeth, Colin, assignor.)
Du Pont, E. I., de Nemours & Company. (See Flaherty, Edmund M., assignor.)
Du Pont Fabrikoid Company. (See Arnold, Charles E., assignor.)
Du Pont Fabrikold Company. (See Lynch, James, assignor.)
Dupont, Francis M., and G. A. Hanke, Milwaukee, Wis. Making calcium oxalate. No. 1,349,947; Aug. 17; v. 277; p. 478.
Dupont, Jean G., Chicago, Ill. Bonnet. No. 1,350,712; Aug. 24; v. 277; p. 674.
Du Puy, Alfred, Oak Park, Ill. Nut-lock. No. 1,348,787; Aug. 3; v. 277; p. 126.
Durant, Samuel E. (See Weeks, Helen, assignor.)
Durbin, David W., Bridgeville, Pa. Shock-absorber. No. 1,351,558; Aug. 31; v. 277; p. 902.
Dutro, Orville V., and A. S. Burroughs, Spokane, Wash. Punching-machine. No. 1,348,788; Aug. 3; v. 277; p. 127.
Dyer, Charles, Detroit, Mich. Shock-absorbing steering mechanism. No. 1,349,415; Aug. 10; v. 277; p. 302.
Dyer, Robert J., Oakland, assignor of one-third to H. B. Williams, San Francisco, Calif. Interlocking wall-block. No. 1,350,490; Aug. 24; v. 277; p. 631.
Earl, Schuyler H., *et al.* (See Bullock, E. W., Earl, and Bryan.
Eaton, George C., Norwich, N. Y. Feeding device for poultry. No. 1,350,013; Aug. 17; v. 277; p. 491.
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Control-switch. No. 1,350,924; Aug. 24; v. 277; p. 714.
Eberhardt, Ferdinand, assignor to Compac Tent Company, Indianapolis, Ind. Collapsible minnow net. No. 1,348,398; Aug. 3; v. 277; p. 53.
Ebert, John, Chicago, Ill. Aeroplane. No. 1,348,934; Aug. 10; v. 277; p. 207.
Eby, Philip, and L. Angle, assignors to Art in Buttons, Inc., Rochester, N. Y. Machine for separating button-blanks. No. 1,350,794; Aug. 24; v. 277; p. 690.
Echterling, Waldemar E., Crete township, Will county, Ill. Grain-elevator. No. 1,349,948; Aug. 17; v. 277; p. 478.
Eckerman, Charles W., Alameda, Calif. Shock-absorber for typewriting-machines. No. 1,350,014; Aug. 17; v. 277; p. 491.
Eckmann, Siegmund H., Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,349,371; Aug. 10; v. 277; p. 294.
Eclipse Machine Company. (See McGrath, William L., assignor.)
Economy Engineering Company. (See French, G. M., and Pavey, assignors.)
Economy Fuse & Manufacturing Company. (See Eustice, Alfred L., assignor.)
Eddison, William B., Irvington, assignor to The Surface Combustion Co., Incorporated, New York, N. Y. Apparatus for unloading pumps. No. 1,350,095; Aug. 17; v. 277; p. 507.
Edenborn, William, New Orleans, La. Apparatus for extracting resin and allied products. No. 1,351,629; Aug. 31; v. 277; p. 916.
Edgewater Steel Company. (See Bell, Frank B., assignor.)
Edison, Karl, assignor to Harry E. Block, Spring Valley, N. Y. Gyroscopic top. No. 1,351,630; Aug. 31; v. 277; p. 916.
Edlund, Conrad, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Die-casting apparatus. No. 1,349,122; Aug. 10; v. 277; p. 244
Edminster, Llewellyn D. (See Dow, Floyd, assignor.)
Edstrom, Albert, Duluth, Minn. Bag-holder. No. 1,350,443; Aug. 24; v. 277; p. 622.
Edwards, Charles K., Chingford, London, England. Vehicle-spring suspension. No. 1,349,332; Aug. 10; v. 277; p. 286.
Edwards Corporation. (See Buch, Max, assignor.)
Edwards, O. M., Company, The. (See Axe, R. T., and Chaffee, assignors.)
Edwards, O. M., Company, The. (See Chaffee, Edward F., assignor.)
Edwards, William D., assignor of one-half to H. W. Page, Maywood, Ill. Method of and apparatus for making ice. No. 1,348,352; Aug. 3; v. 277; p. 44.
Efficiency Electric Corporation. (See Dean, William W., assignor.)
Egan, William F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making hollow bodies. No. 1,349,372; Aug. 10; v. 277; p. 294.
Ehr, John N., W. J. Ehr, and G. W. Matteson, Moose Lake, Minn. Lumber composition. No. 1,348,789; Aug. 3; v. 277; p. 127.
Ehr, Walter J. (See Ehr, John N. and W. J., and Matteson.)
Eickhoff, T. H., Washington, D. C., and C. A. Tunks, Cleveland, Ohio, assignors to Auto-Ordnance Corporation, New York, N. Y. Headspace-micrometer. No. 1,351,721; Aug. 31; v. 277; p. 933.
Eickhoff, Theodore H., Cleveland, Ohio, assignor, by mesne assignments, to Auto-Ordnance Corporation, New York, N. Y. Apparatus for lubricating ammunition. No. 1,350,645; Aug. 24; v. 277; p. 661.
Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Magazine. No. 1,350,646; Aug. 24; v. 277; p. 661.
Eig, Alexander, New York, N. Y. Apparatus for sewing-machine constructions. No. 1,351,029; Aug. 31; v. 277; p. 798.
Eilers, Frank B., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Dispensing-faucet. No. 1,348,854; Aug. 10; v. 277; p. 192.
Eimer, August, and W. T. Wiegand, assignors to Stuyvesant Glass Company, New York, N. Y. Stopcock. No. 1,349,823; Aug. 17; v. 277; p. 545.
Eisemann, Richard, Berlin, Germany. Device for regulating and maintaining constant the speed of motors. No. 1,350,214; Aug. 17; v. 277; p. 531.
Eldgedge, John W. (See Lambert, John H., assignor.)
Eldridge, George L., New Brunswick, N. J. Sign. No. 1,350,302; Aug. 24; v. 277; p. 594.
Electric Railway Improvement Company, The. (See Kjellgren, John G., assignor.)
Electric Vacuum Cleaner Company. (See Rosenfield, William W., assignor.)
Electron Chemical Company. (See Allen, H. I., and Fox, assignors.)
Elektra Toy & Novelty Company. (See Whitehouse, John N., assignor.)
Elgin Street Sweeper Co. (See Todd, Daniel M., assignor.)
Elias, Abraham J. (See Stupar, Max, assignor.)
Eliasoff, Abraham L., and C. Birnbaum, New York, N. Y. Mounting for cluster-tops for rings. No. 1,351,205; Aug. 31; v. 277; p. 832.
Elkins, Abraham, Bridgeport, Conn. Ash-sifting device. No. 1,351,631; Aug. 31; v. 277; p. 916.
Ellert, Charles O., Brooklyn, N. Y. Hair-waver. No. 1,349,609; Aug. 17; v. 277; p. 414.
Elliasson, William A., Bridgeport, Conn., assignor to Hamel Shoe Machinery Company. Lasting-machine. No. 1,349,192; Aug. 10; v. 277; p. 258.
Elling, Albert W., Latimer, Iowa. Air and gas mixer. No. 1,348,272; Aug. 3; v. 277; p. 28.
Elliot, William R., Riverhead, N. Y. Salt and pepper box. No. 1,349,716; Aug. 17; v. 277; p. 435.
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Ellis, Ferrand F., assignor to Oneida Community, Limited, Oneida, N. Y. Game-trap. No. 1,349,717; Aug. 17; v. 277; p. 435.
Ellmann, Ernest E., F. A. Kell, and L. L. Zacharias, St. Louis, Mo.; said Kell and said Zacharias assignors to said Ellmann. Nut-lock. No. 1,351,235; Aug. 31; v. 277; p. 838.
Ellsworth, Walter C., New York, N. Y. Ribbon or tape needle. No. 1,351,418; Aug. 31; v. 277; p. 875.
Elman, Samuel, Syracuse, N. Y. Sadiron. No. 1,349,052; Aug. 10; v. 277; p. 230.
Elmore, Frank E., Boxmoor, England. Extraction of lead from its ores. No. 1,350,959; Aug. 24; v. 277; p. 721.
Elmore, Guy H., Swarthmore, and Harry L. McLean, Scranton, Pa. Discharge control for jigs and like machines. No. 1,350,647; Aug. 24; v. 277; p. 661.
Elmstrom, Anshelm B., assignor to Standard Manufacturing Company, Worcester, Mass. Shoe-stretcher. No. 1,349,333; Aug. 10; v. 277; p. 286.
Elvyn, Jacob W., Chicago, Ill. Indicator. No. 1,350,303; Aug. 24; v. 277; p. 594.
Emerson-Brantingham Company. (See North, William A., assignor.)
Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.
Emerson, George B., and C. E. Buysse, Detroit, Mich. Mixing-valve. No. 1,351,236; Aug. 31; v. 277; p. 838.
Emrick, Burt, Jackson, Mich. Bottle-closure. No. 1,348,273; Aug. 3; v. 277; p. 29.
Engel, Albert W., Chicago, Ill. Gummed seal. No. 1,351,559; Aug. 31; v. 277; p. 903.
Engel, Albert W., Chicago, Ill. Picture-mounting device. No. 1,351,560; Aug. 31; v. 277; p. 903.
Engels, Oswald, Flint, Mich. Tool-holder. No. 1,351,632; Aug. 31; v. 277; p. 917.
English, Ada J., executrix. (See English, Philip M., assignor.)

English, Philip M., deceased, Bayonne, N. J., A. J. English, executrix. Flush-tank valve and appurtenances. No. 1,348,790; Aug. 3; v. 277; p. 127.
Epperson, Landy D., Mount Washington, Mo. Rotary motor. No. 1,350,795; Aug. 24; v. 277; p. 690.
Epps, Cecil L., Van Wert, Ohio. Furnace-casing. No. 1,351,633; Aug. 31; v. 277; p. 917.
Equipment Corporation of America. (See Mosby, Alfred D.)
Erb, Cicero J., and W. J. Briant, Centralia, Wash. Railway-tie and fastener. No. 1,349,949; Aug. 17; v. 277; p. 479.
Erb, Clarence F., Youngstown, Ohio. Apparatus for recovering rubber from armored hose and the like. No. 1,349,752; Aug. 17; v. 277; p. 442.
Erik, *nee* Radstaake, Emilie, New York, N. Y. Mattress. No. 1,350,333; Aug. 24; v. 277; p. 600.
Erikson, Axel, Baltimore, Md. Knife-cleaner. No. 1,349,123; Aug. 10; v. 277; p. 244.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,349,373; Aug. 10; v. 277; p. 295.
Ernst, Theodore, Bayfield, Wis. Baby's chair-table. No. 1,351,634; Aug. 31; v. 277; p. 917.
Erskine, James, Flint, Mich. Gage. No. 1,351,419; Aug. 31; v. 277; p. 875.
Ersted, Alfred J., Portland, Oreg. Bale-tie. No. 1,350,860; Aug. 24; v. 277; p. 702.
Ess, Frank, Cincinnati, Ohio. Detachable shoe-tip protector for roller-skates. No. 1,351,509; Aug. 31; v. 277; p. 892.
Etchison, Jesse F., Clovis, N. Mex. Window construction. No. 1,348,700; Aug. 3; v. 277; p. 110.
Ettler, John A., assignor of one-half to J. V. Oppel, San Francisco, Calif. Nut-lock. No. 1,350,404; Aug. 24; v. 277; p. 613.
Eustice, Alfred L., Chicago, Ill. Fuse. No. 1,348,488; Aug. 3; v. 277; p. 70.
Eustice, Alfred L., assignor to Economy Fuse & Manufacturing Company, Chicago, Ill. Means for establishing electrical connections. No. 1,350,444; Aug 24; v. 277; p. 622.
Euston, Edwin, Scranton, Pa. Producing white lead. No. 1,349,334; Aug. 10; v. 277; p. 286.
Evans, Alva A., Annona, Tex. Automatic train-stopping mechanism. No. 1,349,504; Aug. 10; v. 277; p. 320.
Evans, Andrew M. (See Windahl, Henry, assignor.)
Evans, Benjamin R., Eudora, Kans. Shirt-button. No. 1,348,985; Aug. 10; v. 277; p. 217.
Evans, Clarence T. (See Morse, W. S., and Evans.)
Evans, Edwin B. (See Page, Louis A., assignor.)
Evans, Fred, Summit, N. J. Recording-machine for liquid fuel and the like. No. 1,348,791; Aug. 3; v. 277; p. 127.
Evans, Guy J., Buffalo, N. Y. Address-stencil. No. 1,350,992; Aug. 24; v. 277; p. 727.
Evans, Ross C., *et al.* (See Cox, A., and Evans.)
Evans, William M., Tampa, Fla. Safety-razor and blade-holder. No. 1,350,960; Aug. 24; v. 277; p. 721.
Evensen, William M., assignor to Goss Printing Press Company, Chicago, Ill. Printing-plate clamp. No. 1,350,015; Aug. 17; v. 277; p. 492.
Everitt, Cyrus, Sidney, Ill. Valve-spring compressor. No. 1,348,701; Aug. 3; v. 277; p. 110.
Evits, Charles, and C. Benner, Benton Harbor, Mich. Wrench. No. 1,349,564; Aug. 17; v. 277; p. 405.
Evolin, Leo E., New York, N. Y. Capsule for antiseptics and the like. No. 1,350,304; Aug. 24; v. 277; p. 594.
Ewing, Arthur G. (See Ewing, Clyde T. and A. G.)
Ewing, Arthur G., Los Angeles, Calif. Signal for indicating subnormal pressure in pneumatic tires. No. 1,351,237; Aug. 31; v. 277; p. 838.
Ewing, Clyde T. and A. G., Los Angeles, Calif. Signal for indicating subnormal pressure in pneumatic tires. No. 1,350,016; Aug. 17; v. 277; p. 492.
Ewing, James A., Springdale, and E. J. McGowan, Tarentum, Pa. Plumb-bob. No. 1,349,565; Aug. 17; v. 277; p. 405.
Eynon, Harold G., Philadelphia, Pa. Centrifugal casting method and apparatus. No. 1,349,416; Aug. 10; v. 277; p. 303.
Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Insulation. No. 1,350,925; Aug. 24; v. 277; p. 714.
Fageol, Rollie B., Oakland, Calif. Vehicle-bumper. No. 1,348,634; Aug. 3; v. 277; p. 98.
Fagerlund, Erik A., Stockholm, Sweden. Switch. No. 1,351,161; Aug. 31; v. 277; p. 822.
Fahnoe, Hans, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Arc-welding system. No. 1,351,030; Aug. 31; v. 277; p. 798.
Fairey, Charles R., Hayes, England. Controlling device for aeroplanes. No. 1,350,145; Aug. 17; v. 277; p. 517.
Falconer, James, *et al.* (See Roots, Richard W., assignor.)
Familet, Joseph. (See Lombardo, Carl, assignor.)
Fanner Manufacturing Company, The. (See Gibson, Samuel H., assignor.)
Farb, Pincus, Saginaw, Mich., assignor to Sonora Phonograph Corporation. Automatic stop. No. 1,350,796; Aug. 24; v. 277; p. 691.
Farmer, James, assignor of one-third to James E. Conway, Pittsburgh, Pa. Bending-machine. No. 1,351,472; Aug. 31; v. 277; p. 885.
Farnsworth, William W., Littleton, Colo. Dust-collecting bag for cleaning apparatus. No. 1,351,561; Aug. 31; v. 277; p. 903.
Farnsworth, William W., Littleton, Colo., assignor of one-third to E. A. Ryan, Kansas City, Mo., and one-third to E. H. White, Cumberland, Md. Means for automatically applying tire-chains to vehicle-wheels. No. 1,351,206; Aug. 31; v. 277; p. 832.
Farquhar, Moubray G., and A. H. Hill, Birmingham, England. Automatic firearm. No. 1,350,961; Aug. 24; v. 277; p. 721.
Farr, Ira E., assignor of one-half to M. M. Bagg, Watertown, N. Y. Machine for making composition plugs. No. 1,348,214; Aug. 3; v. 277; p. 16.
Farris, Harvey D., Spokane, Wash. Water-closet bowl. No. 1,349,193; Aug. 10; v. 277; p. 258.
Faultless Caster Company. (See Noelting, William H., assignor.)
Fauase, Joseph, Brocton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming-machine. No. 1,350,305; Aug. 24; v. 277; p. 594.
Fayer, Charles, New York, N. Y., assignor to Wappler Electric Co. Inc. High-tension electric machine. No. 1,348,986; Aug. 10; v. 277; p. 218.
Federal Telegraph Company. (See Beal, Ralph E., assignor.)
Feigelson, Alexander, Beaumont, Tex. Trailer. No. 1,351,102; Aug. 31; v. 277; p. 811.
Feild, Alexander L., Lakewood, Ohio, assignor to National Carbon Company, Inc. Non-metallic resistance element and making same. No. 1,349,053; Aug. 10; v. 277; p. 231.
Feingold, Bernard, New York, N. Y. Dish-drier. No. 1,348,792; Aug. 3; v. 277; p. 127.
Feldman, Morris, Los Angeles, Calif. Clothes-rack. No. 1,350,017; Aug. 17; v. 277; p. 492.
Fellers, William M., Warrington, Fla. Automobile-headlight. No. 1,350,491; Aug. 24; v. 277; p. 632.
Fenn, Arthur G., Hartford, Conn. Indicator. No 1,348,162; Aug. 3; v. 277; p. 6.
Fenske, Paul J., Mart, Tex. Rail-joint. No. 1,350,215; Aug. 17; v. 277; p. 531.
Ferdon, Guy W., Cresskill, N. J. Elastic-spring-clamping-catch holder. No. 1,350,713; Aug. 24; v. 277; p. 675.
Ferguson, E. M., *et al.* (See Auger, Joseph T., assignor.)
Ferguson, George, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rubber-sole shoe. No. 1,348,163; Aug. 3; v. 277; p. 6.
Fernandez, Guy D., Haddon Heights, N. J. Renewable fuse. No. 1,349,269; Aug. 10; v. 277; p. 274.
Ferris, Alfred J., Philadelphia, Pa. Tire-holder. No. 1,349,270; Aug. 10; v. 277; p. 274.
Ferris, Philomene, Westwood, Calif. Shoe-fastener. No. 1,348,703; Aug. 3; v. 277; p. 111.
Ferris, Ralph E. (See Hellmund, R. E., and Ferris.)
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Apparatus for submarine signaling. No. 1,348,556; Aug. 3; v. 277; p. 83.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for detecting low-frequency impulses. No. 1,348,825; Aug. 3; v. 277; p. 133.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling and detection. No. 1,348,826; Aug. 3; v. 277; p. 133.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling. No. 1,348,827; Aug. 3; v. 277; p. 133.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for sound insulation. No. 1,348,828; Aug. 3; v. 277; p. 134.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for locating submarines. No. 1,348,855; Aug. 10; v. 277; p. 192.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Apparatus for directive signaling. No. 1,348,856; Aug. 10; v. 277; p. 192.
Fichten, Frank M., Milwaukee, Wis., assignor to F. Rightmire, Paterson, N. J. Antiskid attachment for tires. No. 1,349,149; Aug. 10; v. 277; p. 250.
Fifield, Chester C., Des Moines, Iowa. Non-freezable watering device. No. 1,348,489; Aug. 3; v. 277; p. 70.
Filkins, Arthur J., Chicago, Ill. Smoke-jack. No. 1,349,666; Aug. 17; v. 277; p. 425.
Firestone Tire and Rubber Company, The. (See Beck, O. F., Speers, and Jones, assignors.)
Firestone Tire and Rubber Company, The. (See Goodenberger, Daniel E., assignor.)
Firestone Tire and Rubber Company, The. (See MacDonald, Frank J., assignor.)
Firestone Tire & Rubber Company, The. (See Maranville, Harvey F., assignor.)
Fischer, Albert C., Kansas City, Mo. Engine. No. 1,349,054; Aug. 10; v. 277; p. 231.
Fischer, Alexander T., assignor of one-third to C. Fischer and one-third to M. Fischer, Detroit, Mich. Apparatus for deflecting fire of firearms. No. 1,348,987; Aug. 10; v. 277; p. 218.

Fischer, Caroline, *et al.* (See Fischer, Alexander T., assignor.)
Fischer, Ernst G., Washington, D. C. Sounding apparatus. No. 1,349,718; Aug. 17; v. 277; p. 435.
Fischer, George F., Rochester, N. Y. Shoe-heel. No. 1,350,216; Aug. 17; v. 277; p. 531.
Fischer, Howard L., and F. J. Kristofek, St. Paul, Minn. Pencil. No. 1,349,950; Aug. 17; v. 277; p. 479.
Fischer, Mary, *et al.* (See Fischer, Alexander T., assignor.)
Fish, Edwards R., Phoenixville, Pa. Superheated steam-boiler. No. 1,350,597; Aug. 24; v. 277; p. 658.
Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Ironing-machine. No. 1,351,061; Aug. 31; v. 277; p. 798.
Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Vacuum-cleaner. No. 1,351,032; Aug. 31; v. 277; p. 798.
Fisher, Benjamin K., St. Louis, Mo. Protractor. No. 1,350,273; Aug. 17; v. 277; p. 542.
Fisher, Elmer E., Kokomo, Ind. Folding chair. No. 1,349,271; Aug. 10; v. 277; p. 274.
Fisher, George E., Honolulu, Hawaii. Pineapple-meat eradicator. No. 1,350,096; Aug. 17; v. 277; p. 507.
Fisher, George F., Plainfield, N. J., assignor to Revere Rubber Company. Tire. No. 1,349,124; Aug. 10; v. 277; p. 245.
Fisher, Milan H. (See Herlihy, D., and Fisher.)
Fisk, Annie L., *et al.* (See Holmes, Anderson M., assignor.)
Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fitch, Benjamin F., Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del. Trolley. No. 1,350,648; Aug. 24; v. 277; p. 662.
Fitch, Charles M., assignor, by mesne assignments, to Bird Adding Machine Company, Chicago, Ill. Adding-machine. No. 1,349,194; Aug. 10; v. 277; p. 259.
Fitz-Empire Double Pivot Last Company. (See Schelter, John C., assignor.)
Fitzberger, Thomas F., Baltimore, Md. Ash-sifter. No. 1,351,377; Aug. 31; v. 277; p. 667.
Fitzgerald, John M. (See Mock, J. M., and Williston, assignors.)
Flaherty, Edmund M., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making photographic films. No. 1,350,274; Aug. 17; v. 277; p. 542.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,348,988; Aug. 10; v. 277; p. 218.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,351,238; Aug. 31; v. 277; p. 838.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,351,239; Aug. 31; v. 277; p. 838.
Flannery Bolt Company. (See Dodds, Ethan L., assignor.)
Fleck, Herman, Golden, Colo., assignor to The Peroxide Specialty Company, St. Louis, Mo. Oxidizing barium monoxid to dioxid. No. 1,349,417; Aug. 10; v. 277; p. 303.
Fleming, Harry P., Santa Clara county, Calif. Blending-machine. No. 1,349,505; Aug. 10; v. 277; p. 320.
Fletcher, Henry P. (See Kellerman, Henry Ralph, assignor.)
Fletcher, William D. (See Sheppard, J. F., 2d, and Fletcher.)
Flindell, Edwin F. (See Darby, John, assignor.)
Flint, Charles F. V., assignor to the firm of Dansk Staalbeholder Fabrik Aktis, Copenhagen, Denmark. Machine for making horseshoes. No. 1,349,506; Aug. 10; v. 277; p. 320.
Flint & Walling Manufacturing Company. (See Macomber, Herbert H., assignor.)
Flohr, Otto E., Tolna, N. D. Lifting-jack. No. 1,349,195; Aug. 10; v. 277; p. 259.
Flory, Jesse D., Camden, Ohio. Hitch for two-wheel tractors. No. 1,350,962; Aug. 24; v. 277; p. 721.
Flynn, George F., Milwaukee, Wis. Motor-support. No. 1,349,418; Aug. 10; v. 277; p. 303.
Flynn, John J., Providence, R. I. Threading-tool. No. 1,350,861; Aug. 24; v. 277; p. 702.
Flynn, John J., Providence, R. I. Chaser. No. 1,350,862; Aug. 24; v. 277; p. 702.
Fogh, Walter B., Seattle, Wash. Device for removing semisolid oleaginous materials from containers. No. 1,350,598; Aug. 24; v. 277; p. 653.
Fogh, Walter B., Seattle, Wash. Process of removing solid oils from cans. No. 1,350,599; Aug. 24; v. 277; p. 653.
Foley, Charles B., Brooklyn, N. Y. Treating metals and alloys. No. 1,350,714; Aug. 24; v. 277; p. 675.
Foley, Michael J., *et al.* (See Bonney, Rick R., assignor.)
Follmer, August A. (See Greenwood, Percy, assignor.)
Foltmer, Conrad H., Wray, Colo. Piston-ring. No. 1,348,274; Aug. 3; v. 277; p. 29.
Fontquerni-Vila, Emilio, New York, N. Y. Window-controlling device. No. 1,348,275; Aug. 3; v. 277; p. 29.
Foote, Charles M., Nashua, N. H. Guard. No. 1,350,797; Aug. 24; v. 277; p. 691.
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Tabulating mechanism. No. 1,349,824; Aug. 17; v. 277; p. 455.
Forbes, Wesley N., Dartmouth, Nova Scotia, Canada. Tire-tread. No. 1,349,055; Aug. 10; v. 277; p. 231.
Forcier, William G., Wollaston, Mass. Ventilating system. No. 1,348,557; Aug. 3; v. 277; p. 83.
Ford, Louis M., Vandalia, Ill. Closure. No. 1,348,857; Aug. 10; v. 277; p. 192.
Ford, Louis M., Vandalia, Ill. Cleat for securing and protecting sheet-roofing. No. 1,348,858; Aug. 10; v. 277; p. 193.
Ford Tire & Rubber Company. (See Anderson, A. V., and Morgan, assignors.)
Fording, William G., assignor to J. T. Lister, Cleveland, Ohio. Putting beads on tire-carcasses. No. 1,348,164; Aug. 3; v. 277; p. 6.
Formway, Verla L., and S. S. Sloneker, Plainview, Tex. Double-action pump. No. 1,348,353; Aug. 3; v. 277; p. 44.
Forrester, Peter C., West Tacoma, Wash. Filter. No. 1,349,056; Aug. 10; v. 277; p. 231.
Forsberg, George A., New Britain, Conn. Automobile direction-signal. No. 1,351,635; Aug. 31; v. 277; p. 917.
Forshee, Isaac C., Germantown, Pa., and C. Gilman, Plainfield, N. J. Manhole construction. No. 1,350,306; Aug. 24; v. 277; p. 594.
Fort Wayne Engineering & Manufacturing Co. (See Astrom, John, assignor.)
Fortescue, Charles L. (See Davis, David C., and Fortescue.)
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. System of distribution. No. 1,351,033; Aug. 31; v. 277; p. 798.
Fortuna-Werke Albert Hirth. (See Hirth, Carl A., assignor.)
Fortuna-Werke, Specialmaschinenfabrik G. M. B. H. (See Loose, Johannes, assignor.)
Foss, Gustav E., Chicago, and H. G. Jensen, Berwyn, Ill. Disk-record holder. No. 1,349,272; Aug. 10; v. 277; p. 275.
Foster, Donovan, assignor of one-fourth to J. B. Wadman, Seattle, Wash. Illusion apparatus. No. 1,351,562; Aug. 31; v. 277; p. 903.
Foster, Harry C., assignor of one-half to C. G. Setzer, Lehighton, Pa. Bearing-box. No. 1,349,449; Aug. 10; v. 277; p. 369.
Foster Marine Boiler Corporation. (See Bell, John E., assignor.)
Foster, Merriam & Company. (See Hinckley, Percy P., assignor.)
Foster, Uri D., and J. Litke, assignors to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Feeder for metal-working machines. No. 1,350,715; Aug. 24; v. 277; p. 675.
Fourneaux, Emile A., Manchester, England. Production of aniline black upon vegetable textile fibers. No. 1,350,600; Aug. 24; v. 277; p. 653.
Fowler, Fannie A., administratrix. (See Fowler, Nathaniel C., Jr.)
Fowler, Henry C., Johnson City, N. Y. Folding display-truck. No. 1,350,963; Aug. 24; v. 277; p. 722.
Fowler, John C., Syracuse, N. Y. Suspensory. No. 1,350,863; Aug. 24; v. 277; p. 702.
Fowler, John H., Lewistown, Pa. Supporting-bracket. No. 1,348,399; Aug. 3; v. 277; p. 53.
Fowler, Nathaniel C., Jr., deceased, Boston, Mass.; F. A. Fowler, administratrix. Food product. No. 1,349,753; Aug. 17; v. 277; p. 442.
Fox, Elmer E., Massillon, Ohio. Railway-tie. No. 1,349,754; Aug. 17; v. 277; p. 442.
Fox, Kent R. (See Allen, H. I., and Fox.)
Fox, Ralph P., Harrisburg, Pa. Safety attachment for airplanes. No. 1,348,704; Aug. 3; v. 277; p. 111.
Franc, Joseph M. E., St. Vallier, France. Lubricating device for leaf-springs. No. 1,350,217; Aug. 17; v. 277; p. 531.
Franc, Joseph M. E., Andancette, France. Air-pump for inflating pneumatic tires. No. 1,350,926; Aug. 24; v. 277; p. 714.
France, Walter M., and L. B. Jones, Meshoppen, Pa. Quick-adjusting bearing. No. 1,348,705; Aug. 3; v. 277; p. 111.
Frankel, Gustav, Seattle, Wash. Wrist-blotter. No. 1,351,378; Aug. 31; v. 277; p. 867.
Frankforter, George B., Minneapolis, Minn. Absolute alcohol and making same. No. 1,350,254; Aug. 17; v. 277; p. 538.
Frankfurt, Sophie, assignor to Maher & Kassler, New York, N. Y. Skirt. No. 1,349,879; Aug. 17; v. 277; p. 466.
Franklin, Gustave A. (See Shackleford, A. E., and Franklin.)
Franklin Valveless Engine Company. (See Sheasley, Charles H., assignor.)
Frankman, Olof, Malmö, Sweden. Device for periodic emptying of receptacles. No. 1,351,636; Aug. 31; v. 277; p. 918.
Frappart, Henry, Kincaid, Ill. Journal for car-wheels for all kinds of vehicles. No. 1,348,400; Aug. 3; v. 277; p. 53.
Fraser, Gordon S. (See Fraser, Norman, J., and G. S.)
Fraser, John. (See Fraser, Norman, J., and G. S.)
Fraser, Norman, J., and G. S., Arbroath, Scotland. Sewing-machine for plaited-soled shoes. No. 1,351,637; Aug. 31; v. 277; p. 918.
Frazier, George E., assignor of one-half to S. C. Cobb, Clever, Mo. Automatic tatting apparatus. No. 1,350,445; Aug. 24; v. 277; p. 622.

Frech, Theodore W., assignor to The Peerless Motor Car Company, Cleveland, Ohio. V-type motor. No. 1,348,859; Aug. 10; v. 277; p. 193.
Frechette, John B., Valparaiso, Ind. Flexible and resilient shoe-sole. No. 1,348,706; Aug. 3; v. 277; p. 111.
Freeman, Alpheus J., assignor to M. E. Barnhart, Chicago, Ill. Collar-button. No. 1,349,825; Aug. 17; v. 277; p. 455.
Freeman, Arthur E., Toronto, Ontario, Canada. Releasehook. No. 1,350,716; Aug. 24; v. 277; p. 675.
Freeman-Daughaday Co. (See Le Clair, Frank J., assignor.)
Fremaux, Edward C., Rayne, La. Record-cabinet. No. 1,350,146; Aug. 17; v. 277; p. 517.
French Battery & Carbon Co. (See Graves, John, assignor.)
French, Daniel E. (See Holmes, Ephraim M., assignor.)
French, George M., and W. B. Pavey, assignors to Economy Engineering Company, Chicago, Ill. Lifting device. No. 1,349,450; Aug. 10; v. 277; p. 309.
French Oil Mill Machinery Co., The. (See Barton, Kirtland C., assignor.)
Fretter, Nathan F., Cleveland, Ohio. Cut-off machine. No. 1,348,635; Aug. 3; v. 277; p. 98.
Fretter, Nathan F., Cleveland, Ohio. Tool for cutting tubes and the like. No. 1,348,636; Aug. 3; v. 277; p. 98.
Frey, Richard. (See Maag, M., and Frey.)
Freyssinet, Eugène, assignor to Societe des Navires en Ciment Armé, Paris, France. Molding concrete ships. No. 1,349,826; Aug. 17; v. 277; p. 455.
Friedrichs, Frank. (See Trump, E. N., and Friedrichs.)
Friedricks, George A., *et al.* (See Decker, George W., assignor.)
Friel, Patrick A., Bayonne, N. J. Hanger-block. No. 1,350,964; Aug. 24; v. 277; p. 722.
Friend, John L., Wilkinsburg, Pa. Toy. No. 1,348,860; Aug. 10; v. 277; p. 193.
Fries, Edward A. (See Randall, L. L., and Fries.)
Friesen, George E., North Yakima, Wash. Vacuum gasolene-pump. No. 1,351,510; Aug. 31; v. 277; p. 893.
Frimard, Peter A., Wilmette, assignor to The Burton Page Company, Chicago, Ill. Udder attachment for milking-machines. No. 1,348,401; Aug. 3; v. 277; p. 53.
Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Lamp-holder. No. 1,349,566; Aug. 17; v. 277; p. 405.
Fritter, Nellie E., administratrix. (See Wallas, John L., assignor.)
Fritter, William C. (See Wallas, John L., assignor.)
Fritz, Lewis G., McCutchenville, Ohio, and A. A. Herzberger, Indianapolis, Ind. Thread-cutter. No. 1,348,276; Aug. 3; v. 277; p. 29.
Fritz, William, Philadelphia, Pa. Clutch. No. 1,351,240; Aug. 31; v. 277; p. 838.
Frohwerk, Eduard, Kansas City, Kans. Non-kick device. No. 1,348,989; Aug. 10; v. 277; p. 218.
Frommann, Franklin A., Chicago, Ill. Vehicle-wheel. No. 1,348,165; Aug. 3; v. 277; p. 6.
Frudden, Conrad E., assignor to Parrett Tractor Company, Chicago, Ill. Change-gear device. No. 1,348,935; Aug. 10; v. 277; p. 208.
Fruehauf Trailer Company. (See Hartwick, Ernest F., assignor.)
Fry, Harvey E., and W. O. Keiter, Lockport, N. Y. Powder-puff. No. 1,349,057; Aug. 10; v. 277; p. 231.
Frye, Daniel M., Jr., Philadelphia, Pa., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Measuring device. No. 1,348,861; Aug. 10; v. 277; p. 193.
Fuel Conservation Company Limited. (See Thomas W., and Mainwaring, assignors.)
Fuelling, Louis H., New York, N. Y., assignor to The United States Printing and Lithograph Co., Brooklyn, N. Y. Making embossed designs. No. 1,350,365; Aug. 24; v. 277; p. 606.
Full, Peter, Vermilion, Ohio. Ship's ladder. No. 1,349,125; Aug. 10; v. 277; p. 245.
Fullbright, Thomas, St. Louis, Mo. Wire-mill. No. 1,350,307; Aug. 24; v. 277; p. 594.
Fuller, Eugene, Providence, R. I. Lacing-tip. No. 1,349,827; Aug. 17; v. 277; p. 455.
Fuller, Frank T., *et al.* (See Manheimer, Louis B., assignor.)
Fuller, Harvey R., Kirkville, Mo. Ruling-pen. No. 1,348,637; Aug. 3; v. 277; p. 98.
Fuller, Rodolphus, Detroit, Mich. Bust construction. No. 1,350,601; Aug. 24; v. 277; p. 653.
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Heat-regulating means. No. 1,349,058; Aug. 10; v. 277; p. 231.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Radiator-casing in combination with humidifying devices. No. 1,349,059; Aug. 10; v. 277; p. 232.
Fulton, William H., Irvington, N. J., assignor to Titeflex Metal Hose Corporation. Tube. No. 1,348,793; Aug. 3; v. 277; p. 127.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method and apparatus for conditioning prepared fabric. No. 1,350,366; Aug. 24; v. 277; p. 606.
Furman, Samuel, Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for making window-envelop blanks. (Reissue.) No. 14,936; Aug. 24; v. 277; p. 732.
Fusch, Warnie A., Decatur, Ill. Power-operated razor. No. 1,350,717; Aug. 24; v. 277; p. 675.
Fynn, Valére A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,350,446; Aug. 24; v. 277; p. 623.
Fynn, Valére A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,350,447; Aug. 24; v. 277; p. 623.
Gabbett-Fairfax, Hugh W., London, England. Machine-gun and other firearm. No. 1,348,702; Aug. 3; v. 277; p. 111.
Gabel, Thomas R., and H. H. Holdaway, assignors of two-thirds to H. P. Jones, Los Angeles, Calif., and one-third to said Gabel. Cotton-picker mechanism. No. 1,348,829; Aug. 3; v. 277; p. 134.
Gacnik, Frank, *et al.* (See Turk, Frank, assignor.)
Gaeto, Marco, New York, N. Y. Slipper. No. 1,350,965; Aug. 24; v. 277; p. 722.
Gafinowitz, Goodman, Burlington, Vt. Identification device. No. 1,350,275; Aug. 17; v. 277; p. 542.
Gahring, Frederick A., assignor of one-half to A. Anderson, Minneapolis, Minn. Non-skid sectional tire-chain. No. 1,348,402; Aug. 3; v. 277; p. 54.
Gaines, Thomas R., Norwood, Ohio. Fastening device. No. 1,350,718; Aug. 24; v. 277; p. 676.
Galbraith, Joseph E., New York, N. Y. Window attachment. No. 1,350,147; Aug. 17; v. 277; p. 517.
Gale, Francis G. (See Stearns, Frederick S., assignor.)
Gale, Oscar A., Eaton, Ohio. Device for conserving cord and twine. No. 1,350,602; Aug. 24; v. 277; p. 653.
Gall, Friedrich, and G. Stolle, Kiel, Germany. Water and pressure tight ball-joint. No. 1,349,060; Aug. 10; v. 277; p. 232.
Galligan, Edward H., Providence, R. I. Eye syringe and massage device. No. 1,350,719; Aug. 24; v. 277; p. 676.
Gamble, Stanley B., West Perth, Western Australia, Australia. Post and side bar of beds, furniture, and the like. No. 1,348,707; Aug. 3; v. 277; p. 111.
Gammel, Karl, Cleveland, Ohio. Drying macaroni and other edible pastes. No. 1,349,568; Aug. 17; v. 277; p. 406.
Gammel, Karl, assignor to The Cleveland Macaroni Company, Cleveland, Ohio. Cooking utensil. No. 1,349,567; Aug. 17; v. 277; p. 405.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Balloon-valve. No. 1,349,335; Aug. 10; v. 277; p. 287.
Garami, Joseph, Newark, N. J. Coin changing and delivering machine. No. 1,350,148; Aug. 17; v. 277; p. 518.
Garden, David A., St. Louis, Mo. Adjustable reflector for headlights. No. 1,350,308; Aug. 24; v. 277; p. 595.
Gardiner, Lou M., assignor to The Iron Horse Tractor Company, San Francisco, Calif. Transmission-gearing. No. 1,349,719; Aug. 17; v. 27; p. 436.
Garfield, James R., trustee. (See Clement, Edward E., assignor.)
Garfield, James R., trustee. (See Wright, Joseph L., assignor.)
Garland, Edward E., New York, N. Y. Stemless self-closing valve for high-pressure tanks. No. 1,348,708; Aug. 3; v. 277; p. 112.
Garman, Harry B., Detroit, Mich., assignor to C. E. Thompson, Cleveland, Ohio. Transmission. No. 1,348,166; Aug. 3; v. 277; p. 6.
Garman, Harry B., Detroit, Mich., and D. V. Buck, Milton, Pa., assignors to C. E. Thompson, Cleveland, Ohio. Universal joint. No. 1,349,197; Aug. 10; v. 277; p. 259.
Garner, Henry, Moseley, J. P. Garner, Birmingham, and W. J. Parker, Moseley, England; said Parker assignor to said H. Garner and said J. P. Garner. Tractor. No. 1,348,558; Aug. 3; v. 277; p. 83.
Garner, James P. (See Garner, H., and J. P., and Parker.)
Garnett, Thomas W., and F. E. Torgler, Topeka, Kans. Ice-can. No. 1,348,354; Aug. 3; v. 277; p. 44.
Garrison, Perry J., assignor of one-half to W. Reed, Oxford, Mich. Combined muffler, vaporizer, and mixing-chamber for gas-engines. No. 1,349,755; Aug. 17; v. 277; p. 442.
Garrison, Walter W. (See Rattermann, G. B., and Garrison.)
Garst, Stephen H., Moline, Ill. Shield for cultivators. No. 1,349,419; Aug. 10; v. 277; p. 303.
Gaskill, James C., Fairmont, W. Va. Adjustable bar-coal screen. No. 1,351,563; Aug. 31; v. 277; p. 903.
Gay, George L., assignor of one-half to F. Whittmann, Philadelphia, Pa. Baking-oven and loading device therefor. No. 1,348,555; Aug. 3; v. 277; p. 44.
Gaynor, John J., assignor to Arrow Bottlers Machinery Company, trustee, Chicago, Ill. Capping mechanism. No. 1,350,405; Aug. 24; v. 277; p. 614.
Geer, Harry R., Johnstown, Pa. Universal shaft-coupling. No. 1,351,420; Aug. 31; v. 277; p. 875.
Geier, P. A., Company, The. (See Geier, P. A., and Robertson, assignors.)
Geier, P. A., Company, The. (See Geier, Philip A., assignor.)

Geier, Philip A., assignor to The P. A. Geier Company, Cleveland, Ohio. Press-body. No. 1,350,649; Aug. 24; v. 277; p. 662.
Geier, Philip A., and F. E. Robertson, assignors to The P. A. Geier Company, Cleveland, Ohio. Handle-member. No. 1,349,828; Aug. 17; v. 277; p. 456.
General Electric Company. (See Abbott, Charles C., assignor.)
General Electric Company. (See Alexanderson, E. F. W., assignor.)
General Electric Company. (See Christensen, Christen, assignor.)
General Electric Company. (See Craighead, J. R., and Summerhayes, assignors.)
General Electric Company. (See Craighead, James R., assignor.)
General Electric Company. (See Doran, John H., assignor.)
General Electric Company. (See Eaton, John, assignor.)
General Electric Company. (See Faccioli, Guiseppe, assignor.)
General Electric Company. (See Gomborow, Joel, assignor.)
General Electric Company. (See Junggren, Oscar, assignor.)
General Electric Company. (See Langmuir, Irving, assignor.)
General Electric Company. (See Moore, Roy W., assignor.)
General Electric Company. (See Parsons, Robert J., assignor.)
General Electric Company. (See Peek, Frank W., Jr., assignor.)
General Electric Company. (See Perry, Charles L., assignor.)
General Electric Company. (See Priest, Edward D., assignor.)
General Electric Company. (See Rice, Richard H., assignor.)
General Electric Company. (See Stearns, Ralph W., assignor.)
General Electric Company. (See Thomson, Stuart, assignor.)
General Electric Company. (See Unger, Magnus, assignor.)
General Patent Manufacturing Company. (See Jeffers, Owen R., assignor.)
Genthner, Charles M., assignor to The Reading Stove Works, Orr, Painter & Co., Reading, Pa. Combination-stove. No. 1,348,709; Aug. 3; v. 277; p. 112.
Gentslinger, George, Wapakoneta, Ohio. Broom-holder. No. 1,351,638; Aug. 31; v. 277; p. 918.
Genung, Charles W., Madison, Ohio. Multiple-seeder attachment for garden-tractors. No. 1,348,862; Aug. 10; v. 277; p. 193.
Genung, John W., *et al.* (See Landers, William M., assignor.)
George, Clarence L., and H. Hart, assignors to Linotype and Machinery Limited, London, England. Typographical composing-machine. No. 1,351,288; Aug. 31; v. 277; p. 848.
Georgilas, George. (See Loetscher, Alvin A., assignor.)
Gerard, William B., *et al.* (See Litchfield, Charles T., assignor.)
Gerber, Martin, Iowa City, Iowa. Automobile-radiator casing. No. 1,348,710; Aug. 3; v. 277; p. 112.
Gerber, Viktor, Zurich, Switzerland. Producing nitrid of aluminium from materials containing aluminic oxid. No. 1,350,149; Aug. 17; v. 277; p. 518.
Gerber, Viktor, Zurich, Switzerland. Producing aluminium from aluminic oxid. No. 1,350,150; Aug. 17; v. 277; p. 518.
Gerfin, George P., and M. Mauran, Niagara Falls, N. Y., assignors to the Nitrogen Corporation, Providence, R. I. Forming a mixture of hydrogen and nitrogen for ammonia synthesis. No. 1,349,756; Aug. 17; v. 277; p. 443.
Gericke, Alexander A., Detroit, Mich. Adjustable die. No. 1,348,403; Aug. 3; v. 277; p. 54.
Gerrish, Edward L., Elk Grove, Calif. Coupling. No. 1,348,277; Aug. 3; v. 277; p. 29.
Gerritson, Jacob, and W. L. Rieck, Kankakee, Ill. Bulkhead structure. No. 1,350,603; Aug. 24; v. 277; p. 653.
Gerry, Wilfred E., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Chart for fountain-pens. No. 1,351,564; Aug. 31; v. 277; p. 904.
Geyer, Mary R., Pittsburgh, Pa. Safety-envelop. No. 1,349,061; Aug. 10; v. 277; p. 232.
Ghittino, Alexander, New York, N. Y. Combined folding bed and bureau. No. 1,350,720; Aug. 24; v. 277; p. 676.
Giacomelli, Nazzareno, Newburgh, N. Y. Rail-chair. No. 1,348,794; Aug. 3; v. 277; p. 128.
Giauque, Pierre L. A., Levellois-Perret, France, assignor to Societe Anonyme Des Automobiles & Cycles Peugeot, Paris, France. Packing device for valve-rods of explosion-engines. No. 1,348,936; Aug. 10; v. 277; p. 208.
Gibbons, Willis A., Flushing, N. Y., assignor to American Rubber Company. Vulcanizing rubber and similar materials. No. 1,350,798; Aug. 24; v. 277; p. 691.
Gibbs, Alfred J., Hay Springs, Nebr. Push-rake. No. 1,350,218; Aug. 17; v. 277; p. 531.
Gibbs, Robert, Portland, Oreg. Skirt-hanger. No. 1,350,219; Aug. 17; v. 277; p. 531.
Gibney, James W., assignor to W. P. Taylor Company, Buffalo, N. Y. Cover for service-boxes. No. 1,349,610; Aug. 17; v. 277; p. 414.
Gibson, George H., Harvey, Ill. Tank-car. No. 1,348,404; Aug. 3; v. 277; p. 54.
Gibson, John H., Little Falls, Minn. Nailing-mechanism. No. 1,348,711; Aug. 3; v. 277; p. 112.
Gibson, Samuel H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Metal-bending machine. No. 1,348,215; Aug. 3; v. 277; p. 16.
Gibson, William, Pittsburgh, Pa. Brake-shoe. No. 1,349,126; Aug. 10; v. 277; p. 245.
Gibson, William, Pittsburgh, Pa. Brake-shoe. No. 1,349,127; Aug. 10; v. 277; p. 245.
Gibson, William, Pittsburgh, Pa. Brake-shoe. No. 1,349,128; Aug. 10; v. 277; p. 245.
Gibson, William, Pittsburgh, Pa. Brake-shoe. No. 1,349,129; Aug. 10; v. 277; p. 245.
Gibson, William, Liverpool, England. Pattern for making molds in which metals are cast. No. 1,349,829; Aug. 17; v. 277; p. 456.
Giddings, Hiram W., Mansford, Wash. Clothes-drier. No. 1,350,367; Aug. 24; v. 277; p. 606.
Giebeler-Wanke, Christoph A., New York, N. Y. Jointed doll. No. 1,348,216; Aug. 3; v. 277; p. 16.
Giesecke, Adolph, Buffalo, N. Y. Recovering protein and phosphates of calcium and magnesium from acid waste waters. No. 1,348,990; Aug. 10; v. 277; p. 218.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy submarine. No. 1,351,565; Aug. 31; v. 277; p. 904.
Gilbertson, Roy A. (See South, Thomas W., assignor.)
Giles, Charles F., Louisville, Ky., assignor, by mesne assignments, to Walter P. Murphy, Chicago, Ill. Metal car end. No. 1,351,566; Aug. 31; v. 277; p. 904.
Giles, David J., McKeesport, Pa. Reducing Tungsten ores. No. 1,348,356; Aug. 3; v. 277; p. 45.
Gill, Charles H., Chicago, Ill. Governor for motors. No. 1,350,018; Aug. 17; v. 277; p. 492.
Gill, Edwin R., Yonkers, N. Y. Storing and delivering apparatus. No. 1,348,490; Aug. 3; v. 277; p. 70.
Gilles, Pierre P., Springfield, Mass. Vacuum-feed carbureter. No. 1,350,151; Aug. 17; v. 277; p. 518.
Gillett, Clifton E., Verdigre, Nebr. Corn-hanger. No. 1,351,379; Aug. 31; v. 277; p. 868.
Gillette Safety Razor Company. (See Parker, Riley H., assignor.)
Gilley, Zachriah E., Lamsco, Tex. Crank. No. 1,351,639; Aug. 31; v. 277; p. 918.
Gillis, Harry, Egypt, Tex. Harrow. No. 1,348,830; Aug. 3; v. 277; p. 134.
Gilman, Charles. (See Forshee, I. C., and Gilman.)
Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company, Boston, Mass. Fluid-motor. No. 1,348,863; Aug. 10; v. 277; p. 194.
Gilpin, Garth G., Riverside, Ill., assignor to W. P. Murphy, New York, N. Y. Railway-car. No. 1,348,991; Aug. 10; v. 277; p. 218.
Girard, L. B. (See Biddlecom, Roy W., assignor.)
Giraudias, Raoul, Montreal, Quebec, Canada. Bow-fastener. No. 1,348,795; Aug. 3; v. 277; p. 128.
Girtanner, Alexander, New York, N. Y. Ash-conveyer. No. 1,348,937; Aug. 10; v. 277; p. 208.
Gits, Jules P., Chicago, Ill. Oil-cup. No. 1,350,721; Aug. 24; v. 277; p. 676.
Gitterman, Kurt R., Brooklyn, N. Y. Spectacle-shade. No. 1,348,712; Aug. 3; v. 277; p. 112.
Gitterman, Kurt R., Brooklyn, N. Y. Spectacle. No. 1,348,713; Aug. 3; v. 277; p. 113.
Glander, Charles E., Jersey City, N. J. Trap-nest. No. 1,351,103; Aug. 31; v. 277; p. 811.
Gleason, James E., and A. L. Stewart, assignors to Gleason Works, Rochester, N. Y. Method of and machine for cutting gears or wheels. No. 1,349,951; Aug. 17; v. 277; p. 479.
Gleason Works. (See Bullock, E. W., Earl, and Bryan, assignors.
Gleason Works. (See Gleason, J. E., and Stewart, assignors.)
Gleeson, William E., East McKeesport, Pa. Toy vehicle. No. 1,350,492; Aug. 24; v. 277; p. 632.
Glover, Frank B., Brooklyn, N. Y. Work-holder. No. 1,350,097; Aug. 17; v. 277; p. 507.
Glover, William E., Coin, Iowa. Antiskidding device. No. 1,350,966; Aug. 24; v. 277; p. 722.
Glynn, Guilford C., Kansas City, Kans., assignor of one-half to P. A. Hilderbran, Kansas City, Mo. Plastic surface-covering. No. 1,348,278; Aug. 3; v. 277; p. 30.
Goble, Walter A., Grand Rapids, Mich. Regulating-hook for piano-actions. No. 1,351,512; Aug. 31; v. 277; p. 893.
Goddu, George, Winchester, Mass., assignor, by meane assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for making fastenings. No. 1,348,864; Aug. 10; v. 277; p. 194.
Godwin, William S., Cleveland, Ohio. Street-railway construction. No. 1,349,451; Aug. 10; v. 277; p. 309.
Gogolinski, John A., Drissa, Russia. Pump. No. 1,349,667; Aug. 17; v. 277; p. 425.
Gohr, Louis W., *et al.* (See Trapp, Charles L., assignor.)
Göhring, Oswald H. (See Klever, H., Lautenschläger, and Göhring.)

Golbin, Benjamin, Chicago, Ill. Automatic circuit-closer. No. 1,351,207; Aug. 31; v. 277; p. 832.

Gold, Egbert H., Chicago, Ill. Gasket for train-pipe couplings. No. 1,350,074; Aug. 17; v. 277; p. 503.

Gold, Samuel B., Independence, Mo., assignor to S. W. Livingston, Washington, D. C. Internal-combustion engine. No. 1,350,864; Aug. 24; v. 277; p. 702.

Goldberg, David, Chicago, Ill. Means for removing fire-hydrant valves while under water-pressure. No. 1,349,062; Aug. 10; v. 277; p. 232.

Goldberg, Herman, assignor to Wolff Coal Saver Company, Chicago, Ill. Damper-gage. No. 1,348,939; Aug. 10; v. 277; p. 208.

Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Safety-pin. No. 1,348,865; Aug. 10; v. 277; p. 194.

Golden Glow Sign Corporation. (See Limpert, Alexander S., assignor.)

Goldie, William, Wilkinsburg, Pa. Reinforcing means for concrete structures. (Reissue.) No. 14,941; Aug. 31; v. 277; p. 935.

Goldstein, Hyman, Brooklyn, N. Y. Bottle-closure. No. 1,349,830; Aug. 17; v. 277; p. 456.

Gomborrow, Joel, Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. No. 1,350,927; Aug. 24; v. 277; p. 715.

Gomil, Paul, Brooklyn, N. Y. Watch-protector. No. 1,348,866; Aug. 10; v. 277; p. 194.

Gomory, Albert B. (See Berdon, A. E., Ringwald, and Gomory.)

Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Heating apparatus. No. 1,349,668; Aug. 17; v. 277; p. 425.

Goodenberger, Daniel E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Adjustable die for rubber-extruding machines. No. 1,350,722; Aug. 24; v. 277; p. 676.

Goodman Manufacturing Company. (See Davis, Charles E., assignor.)

Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)

Goodrich, Chauncey M., U. S. Army. Knockdown building. No. 1,350,493; Aug. 24; v. 277; p. 632.

Goodson, Rasey J., Appleton City, Mo. Wheel construction. No. 1,351,640; Aug. 31; v. 277; p. 918.

Goodwin, Lyle, Omaha, Nebr. Grave-lining device. No. 1,348,405; Aug. 3; v. 277; p. 54.

Goodyear's India Rubber Glove Manufacturing Company. (See Hubbell, Clarence W., assignor.)

Gordon, Alexander W., Crossfields, Alberta, Canada. Lifting-jack. No. 1,348,867; Aug. 10; v. 277; p. 194.

Gordon, Norman Y., Rochester, N. Y., and J. Hodges, Detroit, Mich. Automobile-signal. No. 1,349,063; Aug. 10; v. 277; p. 233.

Gordon, Thomas, Vancouver, British Columbia, Canada. Tire. No. 1,348,714; Aug. 3; v. 277; p. 113.

Gorman, John F., Seattle, Wash. Stump-puller. No. 1,350,994; Aug. 24; v. 277; p. 727.

Gorman, John F., Portland, Oreg., assignor, by mesne assignments, to A. J. Kirstin Company, Escanaba, Mich. Stump-puller. No. 1,348,940; Aug. 10; v. 277; p. 209.

Gorsuch, George J., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning means for upper-forming machines. No. 1,349,669; Aug. 17; v. 277; p. 426.

Gorton, Robert, deceased, C. W. Noyes, administrator, Brookline, Mass. Garter. No. 1,351,567; Aug. 31; v. 277; p. 904.

Gosar, Ivan, Bethlehem, Pa. Curtain and shade support. No. 1,351,289; Aug. 31; v. 277; 848.

Goss, Harry T., Rutherford, N. J., and J. W. Bryce, Binghamton, N. Y. Recorder. No. 1,348,217; Aug. 3; v. 277; p. 17.

Goss, Harry T., Rutherford, N. J., and J. W. Bryce, Binghamton, N. Y. Time-recorder. No. 1,348,218; Aug. 3; v. 277; p. 17.

Goss Printing Press Company. (See Evensen, William M., assignor.)

Gossling, Walter E. (See Noble, I. M., and Gossling.)

Goudet, Charles. (See Darier, G., and Goudet.)

Gould Coupler Company. (See Creveling, John L., assignor.)

Gould Coupler Company. (See Milne, G. G., and Creveling, assignors.)

Gould, Dan, Sacramento, Calif. Wrecking-truck. No. 1,349,198; Aug. 10; v. 277; p. 259.

Gould, Edwin J., Oakland, Calif. Differential lock and reversing mechanism. No. 1,350,276; Aug. 17; v. 277; p. 542.

Gove, Henry H., assignor to Gove Motor Company, Biddeford, Me. Carbon shearing and compression device for internal-combustion engines. No. 1,349,757; Aug. 17; v. 277; p. 443.

Gove Motor Company. (See Gove, Henry H., assignor.)

Gow, John M., and F. S. Davis, Lansing, Mich. Meter-lubricator. No. 1,348,559; Aug. 3; v. 277; p. 83.

Goyette, Leo J. (See Stenger, Francis J., assignor.)

Grabau, Hans E., Long Island City, assignor to A. C. Schwartz, New York, N. Y. Vehicle-tire. No. 1,350,995; Aug. 24; v. 277; p. 728.

Graham, Andrew W., Buffalo, N. Y. Match-packet. No. 1,351,241; Aug. 31; v. 277; p. 839.

Graham, Andrew W., Buffalo, N. Y. Combination package wrapper or label and match-packet. No. 1,351,242; Aug. 31; v. 277; p. 839.

Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Can-end-lining machine. No. 1,348,560; Aug. 3; v. 277; p. 83.

Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Hermetic sealing device. No. 1,351,162; Aug. 31; v. 277; p. 822.

Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Can-end-lining machine. No. 1,351,163; Aug. 31; v. 277; p. 823.

Graham, Clarence R., Newark, Calif. Combined gas and coal range. No. 1,350,723; Aug. 24; v. 277; p. 676.

Graham, Edward, Saginaw, Mich. Land-torpedo. No. 1,350,220; Aug. 17; v. 277; p. 532.

Graham, Henry W. B., assignor to The Arnold-Creager Company, New London, Ohio. Bumping mechanism. No. 1,350,604. Aug. 24; v. 277; p. 654.

Graham, Joseph B., Evansville, Ind., and R. La France, assignors to The Owens Bottle Machine Company, Toledo, Ohio. Apparatus for conveying molten glass. No. 1,350,448; Aug. 24; v. 277; p. 623.

Graham, Oliver B., Clevefand, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun lubrication. No. 1,351,164; Aug. 31; v. 277; p. 823.

Gramer, Walter W., Marinette, Wis. Testing apparatus. No. 1,349,831; Aug. 17; v. 277; p. 456.

Grand Rapids Brass Co. (See Tower, Daniel W., assignor.)

Grant, John D. (See Duhem, R. A., and Grant.)

Granz, Joseph, Duluth, Minn. Motion-picture machine. No. 1,349,420; Aug. 10; v. 277; p. 303.

Granz, Joseph, Duluth, Minn. Motion-picture machine. No. 1,349,421; Aug. 10; v. 277; p. 304.

Granz, Joseph, Duluth, Minn. Motion-picture machine. No. 1,349,422; Aug. 10; v. 277; p. 304.

Grassl, Peter. (See Williams, Richard J., assignor.)

Grasty, George I., *et al.* (See Brown, Leonard L., assignor.)

Grauer, Max J., *et al.* (See Brown, Albert, assignor.)

Graves, Eugene S., Providence, R. I. Dyeing or similarly treating textiles. No. 1,348,167; Aug. 3; v. 277; p. 7.

Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Mixing-machine. No. 1,351,243; Aug. 31; v. 277; p. 839.

Graves, Robert E., Houston, Tex. Dental handpiece. No. 1,349,832; Aug. 17; v. 277; p. 456.

Gravity Carburetor Company, The. (See Costa, Anthony, assignor.)

Gray, Carl C., Minneapolis, Minn. Chain-tightener. No. 1,348,168; Aug. 3; v. 277; p. 7.

Gray, Daniel A., Des Moines, Iowa. Farm-gate. No. 1,350,967; Aug. 24; v. 277; p. 722.

Gray, James A., assignor to American Can Company, San Francisco, Calif. Can-end-feed mechanism. No. 1,349,833; Aug. 17; v. 277; p. 457.

Gray, Raymond K., assignor to Graynie Corporation, Chicago, Ill. Automobile-tire lock. No. 1,348,169; Aug. 3; v. 277; p. 7.

Graynie Corporation. (See Gray, Raymond K., assignor.)

Grazier, Doré W., Johnstown, Pa. Automobile-signal. No. 1,351,513; Aug. 31; v. 277; p. 893.

Green, Charles F., Defiance, assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-feeding system. No. 1,348,406; Aug. 3; v. 277; p. 55.

Green, Daniel, Felt Shoe Company. (See Green, James A., assignor.)

Green, George, Toronto, Ontario, Canada. Lock for motor-car gear-shifting levers. No. 1,348,868; Aug. 10; v. 277; p. 194.

Green, James A., Dolgeville, N. Y., assignor to Daniel Green Felt Shoe Company, Boston, Mass. Shoe and making same. No. 1,348,941; Aug. 10; v. 277; p. 209.

Green, James M., Chicago, Ill. Non-skid attachment for automobile-tires. No. 1,348,992; Aug. 10; v. 277; p. 210.

Green, Michael B., Memphis, Tenn. Oil-press. No. 1,348,869; Aug. 10; v. 277; p. 195.

Green, Michael B., Memphis, Tenn. Oil-press. No. 1,348,870; Aug. 10; v. 277; p. 195.

Green, Nettie, Cambridge, and S. Matison, Boston, Mass. Child's garment. No. 1,351,380; Aug. 31; v. 277; p. 868.

Green, Orren J., Afton, N. Y. Folding cot. No. 1,350,152; Aug. 17; v. 277; p. 518.

Green, Rina, Copenhagen, Denmark. Veil. No. 1,350,494; Aug. 24; v. 277; p. 632.

Green, Thomas W., Trenton, N. J. Multistage centrifugal blower. No. 1,350,724; Aug. 24; v. 277; p. 677.

Green, Walter R., Chicago, Ill. Tire-carrier. No. 1,349,507; Aug. 10; v. 277; p. 321.

Greenawalt, John E., Denver, Colo. Apparatus for roasting or sintering ores. No. 1,348,407; Aug. 3; v. 277; p. 55.

Greenawalt, John E., Denver, Colo. Treating ores. No. 1,348,408; Aug. 3; v. 277; p. 55.

Greenawalt, William E., Denver, Colo. Flotation apparatus. No. 1,350,605; Aug. 24; v. 277; p. 654.

Greene, Edwin D., assignor to Arkell Safety Bag Company, New York, N. Y. Machine for making stretchable crinkled paper. No. 1,348,638; Aug. 3; v. 277; p. 99.

Greenleaf, George E., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Lubricating system for planers. No. 1,350,300; Aug. 24; v. 277; p. 595.

Greenleaf, Rupert L., Cambridge, Mass. Heel-scouring machine. No. 1,351,290; Aug. 31; v. 277; p. 849.

Greenwood, Conrad V., Blundellsands, near Liverpool, England. Tanning. No. 1,349,150; Aug. 10; v. 277; p. 250.

Greenwood, Percy, assignor to A. A. Follmer, New York, N. Y. Lace-making machine. No. 1,351,329; Aug. 31; v. 277; p. 857.

Greer, Willie, Osceola, Ark. Motor-vehicle. No. 1,351,641; Aug. 31; v. 277; p. 919.

Gregg Company, The. (See Gregg, Otis T. and W. B., assignors.)

Gregg, Otis T. and W. B., assignors to The Gregg Company, Limited, Hackensack, N. J. Side-door-car construction. No. 1,348,170; Aug. 3; v. 277; p. 7.

Gregg, William B. (See Gregg, Otis T. and W. B.)

Gregory, Eli E., Lewisport, Ky., assignor to Rangefinding Sight Company, New York, N. Y. Gun-sight. No. 1,350,153; Aug. 17; v. 277; p. 518.

Gregory & Read Co., *et al.* (See Tisdell, Frank J., assignor.)

Grending, Edwin J., Colfax, Ill. Gate-latch. No. 1,348,715; Aug. 3; v. 277; p. 113.

Grenier, Fernand, assignor to La Société Robin, Grenier Vidy & G. Zwingelstein, Nantes, France. Carbureter for internal-combustion engines using heavy oils. No. 1,351,104; Aug. 31; v. 277; p. 811.

Gressle, Charles W. (See Manternach, J. C., and Gressle.)

Greuter, Charles R., Cincinnati, Ohio. Carbureter. No. 1,350,799; Aug. 24; v. 277; p. 691.

Greuter, Charles R., Detroit, Mich. Engine-valve mechanism. No. 1,350,800; Aug. 24; v. 277; p. 691.

Griffin, Asa A. H., Butler, Pa. Combined bracket and clamp. No. 1,350,221; Aug. 17; v. 277; p. 532.

Griffin, Eddie F., Uniontown, Pa. Automobile-signal. No. 1,351,642; Aug. 31; v. 277; p. 919.

Griffin, John B., Maple Hill, Conn. Phonograph. No. 1,348,357; Aug. 3; v. 277; p. 45.

Griffin, John B., Newington, Conn. Flexible tripping device for phonographs. No. 1,348,358; Aug. 3; v. 277; p. 45.

Griffith, Melvin J., Barberton, Ohio. Septic tank. No. 1,349,452; Aug. 10; v. 277; p. 309.

Griffiths, Daniel E., Pittsburgh, Pa. Metallurgical furnace. No. 1,350,865; Aug. 24; v. 277; p. 703.

Griffiths, David I., Frostburg, Md. Direction-signal. No. 1,348,716; Aug. 3; v. 277; p. 113.

Griffiths, Edward J. (See Griffiths, William A. and E. J.)

Griffiths, William A. and E. J., Homestead, Pa. Automobile-tire. No. 1,348,871; Aug. 10; v. 277; p. 195.

Griggs, Hiram E., Wayne, Nebr. End-gate. No. 1,351,165; Aug. 31; v. 277; p. 823.

Grignon, Ephraim P., Appleton, Wis. Bowling-pin. No. 1,351,421; Aug. 31; v. 277; p. 875.

Grigsby, Arle, assignor of one-half to J. Lynch, Olney, Ill. Draw-bar lifter and holder. No. 1,348,491; Aug. 3; v. 277; p. 70.

Grimwood, Charles P., Los Angeles, Calif. Apparatus for the recovery of the contents of liquids. No. 1,348,409; Aug. 3; v. 277; p. 55.

Grob, Hugo, Zurich, Switzerland. Switching-over device for electrical lighting installations for railway-trains and the like. No. 1,348,171; Aug. 3; v. 277; p. 8.

Groebli, Joseph A., New York, N. Y. Bead-sewing machine. No. 1,350,449; Aug. 24; v. 277; p. 623.

Groff, Angus R., assignor to A. R. G. Auxiliary Spring Company, Birmingham, Ala. Auxiliary spring for automobiles and motor-driven vehicles. No. 1,351,105; Aug. 31; v. 277; p. 812.

Gronbech, Christian E. A., New York, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Syringe. No. 1,348,796; Aug. 3; v. 277; p. 128.

Grondahl, Lars O., Pittsburgh, Pa., and A. H. Pfund, Baltimore, Md. Cover for headlights. No. 1,350,277; Aug. 17; v. 277; p. 542.

Gronseth, Luther E., Duluth, Minn. Check-writer. No. 1,349,880; Aug. 17; v. 277; p. 466.

Gros, Ferdinand, & Bouchardy. (See Guye, Philippe A., assignor.)

Groupe, Andrew V. (See Breuizer, Orson W., assignor.)

Grover, Albert D., New York, N. Y. Tailpiece for banjos and the like. No. 1,350,310; Aug. 24; v. 277; p. 595.

Grunfeld, Julius J., Jr., assignor to Associated Engines Company, Chicago, Ill. Christmas-tree ornament. No. 1,349,374; Aug. 10; v. 277; p. 295.

Gruenfeldt, Emil, assignor, by mesne assignments, to The Baker R & L Company, Cleveland, Ohio. Operating mechanism for vehicles. No. 1,350,450; Aug. 24; v. 277; p. 623.

Gruetsmacher, Mary E., Milwaukee, Wis. Safety device for valuables. No. 1,350,606. Aug. 24; v. 277; p. 654.

Grundmann, William, St. Louis, Mo. Concrete-finishing tool. No. 1,348,639; Aug. 3; v. 277; p. 99.

Gruver, George F. (See Streibich, J. C., and Gruver.)

Gubelmann, William S., Buffalo, N. Y. Dating mechanism for calculating and like machines. No. 1,348,942; Aug. 10; v. 277; p. 209.

Guerin, William F., Brooklyn, N. Y. Snow-removal and steam-heating system. No. 1,350,968; Aug. 24; v. 277; p. 723.

Guerra, José V., Santiago de Cuba, Cuba. Telegraph instrument. No. 1,348,717; Aug. 3; v. 277; p. 113.

Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,350,725; Aug. 24; v. 277; p. 677.

Guillet, Victor. (See Mauvillin, E., and Guillet.)

Gulbransen, Axel G., assignor to Gulbransen-Dickinson Company, Chicago, Ill. Piano-player action. No. 1,349,273; Aug. 10; v. 277; p. 275.

Gulbransen-Dickinson Company. (See Gulbransen, Axel G., assignor.)

Gulich, Gregor, New York, N. Y. Fire-escape or life-saving tower. No. 1,348,872; Aug. 10; v. 277; p. 195.

Gumbel, Edward, *et al.* (See Weigel, Philip A., assignor.)

Gundlach, Elizabeth E., Madison, Wis. Mattress. No. 1,351,166; Aug. 31; v. 277; p. 823.

Gunn, James G., Cherokee, Iowa. Cargo-handling apparatus. No. 1,351,167; Aug. 31; v. 277; p. 823.

Gustafson, Charles, Insianter, Pa. Broom-holder. No. 1,349,274; Aug. 10; v. 277; p. 275.

Guth, Jacob, Salem, Ill. Tractor. No. 1,350,451; Aug. 24; v. 277; p. 624.

Guthrie, James, Cleveland, Ohio, assignor to The Ohio Motor Vehicle Company. Bumper-supporting means. No. 1,350,406; Aug. 24; v. 277; p. 614.

Guthrie, Robert L., Santa Rosa, Calif. Cultivator. No. 1,351,643; Aug. 31; v. 277; p. 919.

Gutstein, Joseph, assignor to Hart, Schaffner & Marx, Chicago, Ill. Work-supporting rack for sewing-machines. No. 1,351,244; Aug. 31; v. 277; p. 839.

Guye, Philippe A., Geneva, Switzerland, assignor to Ferdinand, Gros, & Bouchardy, Paris, France. Manufacture of concentrated nitric acid. No. 1,348,873; Aug. 10; v. 277; p. 196.

Guye, Philippe A., Geneva, Switzerland, assignor to Ferdinand, Gros, & Bouchardy, Paris, France. Manufacture of nitric anhydrid. No. 1,348,874; Aug. 10; v. 277; p. 196.

Haapanen, Henry W., Telluride, Colo. Brake attachment for automobiles. No. 1,350,726; Aug. 24; v. 277; p. 677.

Hachmann, Frederick, assignor of one-half to H. Stiefel, St. Louis, one-eighth to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to P. E. Moody, one-sixteenth to C. R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Piston-ring. No. 1,348,640; Aug. 3; v. 277; p. 99.

Hachmann, Frederick, assignor of one-half to H. Stiefel, St. Louis, one-eighth to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to P. E. Moody, one-sixteenth to C. R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Piston-ring. No. 1,348,641; Aug. 3; v. 279; p. 99.

Hadaway, William S., Jr., New Rochelle, N. Y. Heating apparatus. No. 1,349,130; Aug. 10; v. 277; p. 245.

Hadaway, William S., Jr., New Rochelle, N. Y. Heating apparatus. No. 1,349,131; Aug. 10; v. 277; p. 246.

Haddock, Charles C., Beverly, Mass. Aeronautical apparatus. No. 1,349,336; Aug. 10; v. 277; p. 287.

Hadinger, Ignaz, Pottsville, Pa. Wheel-lock. No. 1,351,644; Aug. 31; v. 277; p. 919.

Hagan Corporation, The. (See Hopwood, John M., assignor.)

Hagenbuch, Walter, Martinez, Calif. Fireplace. No. 1,350,495; Aug. 24; v. 277; p. 632.

Haggerty, Patrick F., New York, N. Y. Stopping-out machine for electrotypers. No. 1,348,492; Aug. 3; v. 277; p. 70.

Hahn, Lowell R., and O. L. Miller, Kokomo, Ind. Backwater stop or valve. No. 1,348,993; Aug. 10; v. 277; p. 219.

Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Throttle-valve for percussive tools. No. 1,350,407; Aug. 24; v. 277; p. 614.

Hale, Frank R., Hartford, Conn. Shipping-crate. No. 1,350,496. Aug. 24; v. 277; p. 632.

Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,349,375; Aug. 10; v. 277; p. 295.

Hall, Edward T., *et al.* (See Hall, James L., assignor.)

Hall, Elbert J., Berkeley, Calif. Propeller-mounting. No. 1,349,758; Aug. 17; v. 277; p. 443.

Hall, Frank H., Yonkers, N. Y. Toy. No. 1,349,337; Aug. 10; v. 277; p. 287.

Hall, George S., Chico, Calif. Apparatus for radiator-repairing. No. 1,350,866; Aug. 24; v. 277; p. 703.

Hall, James H., Mountain Grove, Mo. Trap. No. 1,349,453; Aug. 10; v. 277; p. 310.

Hall, James L., Beaumont, assignor of one per cent. to V. O. Holland, Clay, one per cent. to O. Hunt, Somerville, Tex., and two per cent. to E. T. Hall, Atlanta, Ga. Cuff-link. No. 1,350,222; Aug. 17; v. 277; p. 532.

Hall Switch & Signal Co. (See Blake, Eli J., assignor.) (Reissue.)

Hall, William P. (See La Rue, Willis E., assignor.)

Hallen, Swan E., Vancouver, British Columbia, Canada. Vehicle-signal. No. 1,350,969; Aug. 24; v. 277; p. 723.

Halliday, Louis B., Cincinnati, Ohio. Automobile-lock. No. 1,350,497; Aug. 24; v. 277; p. 633.

Hallner, Andrew, Arboga, Calif. Load-indicator. No. 1,350,498; Aug. 24; v. 277; p. 633.

Hallock, Fletcher D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,348,943; Aug. 10; v. 277; p. 209.
Halloway, William M., Maywood, Ill., assignor to American Can Company, New York, N. Y. Talking-machine. No. 1,349,759; Aug. 17; v. 277; p. 443.
Halseth, Henry E., Virginia, Minn. Penholder. No. 1,348,410; Aug. 3; v. 277; p. 55.
Hamby, Benjamin R., Crum Creek, Okla. Pipe-coupling. No. 1,351,645; Aug. 31; v. 277; p. 919.
Hamel Shoes Machinery Company. (See Elliasson, William A., assignor.)
Hamel Shoe Machinery Company. (See Valois, Felix E., assignor.)
Hamilton, Eddie H., Washington, D. C. Plate-fastening device. No. 1,350,223; Aug. 17; v. 277; p. 532.
Hamilton, Frank, Burlington, Okla. Self feeding and pitching machine. No. 1,351,381; Aug. 31; v. 277; p. 868.
Hamilton, Harold L., Fargo, N. D. Sand-separating apparatus. No. 1,350,154; Aug. 17; v. 277; p. 519.
Hamilton, James W., Wichita, Kans. Oil-burner. No. 1,351,208; Aug. 31; v. 277; p. 832.
Hammer, Edward M., Diboll, Tex. Hose-reel. No. 1,350,499; Aug. 24; v. 277; p. 633.
Hammond, Frank S., New York, N. Y. Internal-combustion engine. No. 1,349,952; Aug. 17; v. 277; p. 479.
Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Magazine for firearms. No. 1,348,172; Aug. 3; v. 277; p. 8.
Hammond, John H., Jr., Gloucester, Mass. Radiotelegraphy. No. 1,350,801; Aug. 24; v. 277; p. 691.
Hammond, Mary M., Kansas City, Mo. Tray mechanism. No. 1,351,209; Aug. 31; v. 277; p. 832.
Hammond, William P. (See Horton, B. D., and Hammond.) (Reissue.)
Hammond, William P., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cut-sole rack. No. 1,348,173; Aug. 3; v. 277; p. 8.
Hancock, George L., Geneva, N. Y. Dumping-vehicle. No. 1,349,760; Aug. 17; v. 277; p. 443.
Hancock, Lee B. (See Jenkins, Charles W., assignor.)
Hand, Judson L., Sanger, Calif. Internal-combustion engine. No. 1,350,607; Aug. 24; v. 277; p. 654.
Handley-Buck Manufacturing Company. (See Meyer, August, assignor.)
Handler, William, Newark, N. J. Handle. No. 1,350,650; Aug. 24; v. 277; p. 662.
Handy Manufacturing Company. (See Bergstrom, Oscar, assignor.)
Hanke, Gustav A. (See Dupont, F. M., and Hanke.)
Hansen, Lars, Kansas City, Mo. Molding-machine. No. 1,348,411; Aug. 3; v. 277; p. 56.
Hanson, Harry, Watertown, assignor to Select Service Company, Boston, Mass. Coin-controlled vending-machine. No. 1,349,953; Aug. 17; v. 277; p. 479.
Hanson, Soren S. (See Shuman, C. S., and Hanson.)
Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,351,034; Aug. 31; v. 277; p. 799.
Hardgrove, Burton C., Portland, Oreg., assignor of one-half to C. Osborne. Spark-arrester. No. 1,349,151; Aug. 10; v. 277; p. 250.
Hardinge, Harry W., New York, N. Y. Tube-mill. No. 1,348,642; Aug. 3; v. 277; p. 99.
Hardwick, Archer P., Vanadium, Colo. Internal-combustion engine. No. 1,349,275; Aug. 10; v. 277; p. 275.
Hardy, Edward J., Coventry, England. Universal joint of the flexible-disk type. No. 1,350,500; Aug. 24; v. 277; p. 633.
Hardy, Forster, South Ealing, England. Fishing-rod. No. 1,351,473; Aug. 31; v. 277; p. 885.
Harkness, John, Ayr, Scotland. Building structure. No. 1,350,019; Aug. 17; v. 277; p. 492.
Harmon, Alton D., assignor of one-third to J. S. Owen and one-third to A. W. S. Strong, Erie, Pa. Computing-machine. No. 1,350,727; Aug. 24; v. 277; p. 677.
Harmon, Frank L., Beverly, Mass., assignor to Singer Manufacturing Company, Elizabeth, N. J. Eyeleting-machine. (Reissue.) No. 14,931; Aug. 17; v. 277; p. 545.
Harmon, Frank L., Beverly, Mass., assignor to Singer Manufacturing Company, Elizabeth, N. J. Duplex Eyeleter. (Reissue.) No. 14,932; Aug. 17; v. 277; p. 546.
Harn, Sherman A., Waterville, Wash. Straw-spreading attachment. No. 1,349,152; Aug. 10; v. 277; p. 250.
Harr, Dean. (See Connor, Clyde O., assignor.)
Harriman, George V., New York, N. Y. Syringe. No. 1,348,412; Aug. 3; v. 277; p. 56.
Harriman National Bank of the City of New York, trustee. (See Catucci, P., and Nodel, assignors.)
Harriman National Bank of the City of New York, trustee. (See Catucci, P., and Vasselli, assignors.)
Harriman National Bank of the City of New York, trustee. (See Vasselli, Anthony.)
Harrington, John L., Winston-Salem, N. C., assignor to Southern Implement Manufacturing Co., Columbus, Ga. Threshing-machine. No. 1,350,452; Aug. 24; v. 277; p. 624.
Harrington, Tillie, Minneapolis, Minn. Cooking vessel. No. 1,349,508; Aug. 10; v. 277; p. 321.
Harris, Arthur W., Sleepy Eye, Minn. Package closing and locking mechanism. No. 1,348,643; Aug. 3; v. 277; p. 99.
Harris, Charles H. (See Wilcox, Charles M., assignor.)
Harrison, Frederick J., Indianapolis, Ind. Tool. No. 1,348,413; Aug. 3; v. 277; p. 56.
Harriss, James B., Newark, N. J., assignor to P. Lorillard Company, New York, N. Y. Wrapper-applying mechanism. No. 1,350,608; Aug. 24; v. 277; p. 654.
Hart, Franklin H., New Haven, Conn. Curtain-fastener. No. 1,349,569; Aug. 17; v. 277; p. 406.
Hart, Franklin H., assignor to C. Cowles & Co., New Haven, Conn. Lock for vehicle-doors. No. 1,351,568; Aug. 31; v. 277; p. 904.
Hart & Hegeman Manufacturing Company, The. (See Foster, U. D., and Litke, assignors.)
Hart & Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)
Hart, Henry. (See George, C. L., and Hart.)
Hart, Schaffner & Marx. (See Gutstein, Joseph, assignor.)
Hartenberger, Robert, Sheboygan Falls, Wis. Ventilated silo. No. 1,350,501; Aug. 24; v. 277; p. 633.
Hartford, Edward V., Deal, N. J. Electrothermostatic-controlled mechanism. No. 1,349,954; Aug. 17; v. 277; p. 480.
Hartford-Fairmont Company. (See Peiler, Karl E., assignor.)
Hartman, Ellés E., New York, N. Y. Foldable bed. No. 1,348,944; Aug. 10; v. 277; p. 209.
Hartmann, Max, and E. Wybert, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Thienylquinolin carboxylic acids. No. 1,350,408; Aug. 24; v. 277; p. 614.
Hartung, Felix C. (See Pihlfeldt, T. G., and Hartung.)
Hartwick, Ernest F., assignor to Fruehauf Trailer Company, Detroit, Mich. Fifth-wheel. No. 1,351,245; Aug. 31; v. 277; p. 840.
Hartzell, Amos F., Knoxville borough, assignor to Standard Oven Company, Pittsburgh, Pa. Manufacture of baked goods. No. 1,350,278; Aug. 17; v. 277; p. 543.
Harvey, Henry C., Huntington, W. Va. Self-serving store. No. 1,350,996; Aug. 24; v. 277; p. 728.
Harvey, Wilbur E., Glenshaw, Pa. Controlling proportions of pulverized-fuel mixture. No. 1,348,561; Aug. 3; v. 277; p. 84.
Harwood, John, Berea, Ky., assignor of one-half to J. D. McColm, Huntington, W. Va. Producing duplicate patterns in granite. No. 1,349,955; Aug. 17; v. 277; p. 480.
Hase, Takebe, San Francisco, Calif. Collar construction. No. 1,350,609; Aug. 24; v. 277; p. 655.
Hastings, Cornelius G., Glendale, Calif. Tamping-machine. No. 1,351,106; Aug. 31; v. 277; p. 812.
Hastings, Cornelius G., Glendale, Calif. Tamping-machine. No. 1,351,246; Aug. 31; v. 277; p. 840.
Hastings, James E., Athol, Mass. Micrometer. No. 1,348,875; Aug. 10; v. 277; p. 196.
Hathaway, Thomas H. E., Chicago, Ill. Combined cabinet and table. No. 1,348,220; Aug. 3; v. 277; p. 18.
Hatt, Joseph A. H., Brooklyn, N. Y. Color-filter negative and preparing same. No. 1,349,956; Aug. 17; v. 277; p. 480
Haun, Earl G., Marion, Ind. Sunken-boat detector. No. 1,350,224; Aug. 17; v. 277; p. 532.
Hauser, Albert H., Columbus, Ohio. Water-stop. No. 1,348,562; Aug. 3; v. 277; p. 84.
Havenstrite, Charles D., Chicago, Ill. Compressor. No. 1,349,199; Aug. 10; v. 277; p. 260.
Haviland, Wood. (See Zieche, Paul R., assignor.)
Hawkins, Alda F., Fort Worth, Tex. Battery-terminal fastening. No. 1,349,957; Aug. 17; v. 277; p. 480.
Hawkins, John L., Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Innersole for boots and shoes and making same. No. 1,348,644; Aug. 3; v. 277; p. 100.
Hay, Marley F., The Hague, Netherlands. Sighting instrument. No. 1,350,225; Aug. 17; v. 277; p. 532.
Hayes, Henry F., Jr. (See Smith, Winfield D., assignor.)
Hayes, John P., and J. E. Barnhart, Pittsburgh, Pa. Automatic-circuit-breaker switchboard. No. 1,348,359; Aug. 3; v. 277; p. 45.
Hays, Harry J., Alexandria, Va. Tobacco-pipe. No. 1,349,276; Aug. 10; v. 277; p. 275.
Hazelman, George, West Brooklyn, Ill. Plow-guide-wheel holder. No. 1,351,328; Aug. 31; v. 277; p. 868.
Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Interchangeable positive and friction drive and reversible gearing for machine-tools. No. 1,349,958; Aug. 17; v. 277; p. 481.
Heald Machine Company. (See Moran, John L., assignor.)
Heale, Frank, Putney, and G. W. Bryant, Southsea, England. Screen for Cinematograph-pictures and the like. No. 1,349,064; Aug. 10; v. 277; p. 233.
Heap, Jesse J., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Double-lap seam for sewed articles. No. 1,348,645; Aug. 3; v. 277; p. 100.
Heath, Arthur E., London, England. Sparking-plug for ignition purposes. No. 1,349,454; Aug. 10; v. 277; p. 310.
Heath, Clinton L., Leslie, Mo. Tappet-wheel for planters. No. 1,350,997; Aug. 24; v. 277; p. 728.
Heath, Harry C., San Francisco, Calif. Lubricator. No. 1,350,075; Aug. 17; v. 277; p. 503.

Heath, William R. (See Crumpton, William J., assignor.)
Heatly, Gail H., Mangum, Okla. Union-garment. No. 1,350,020; Aug. 17; v. 277; p. 493.
Heberling, John, Rochester, N. Y. Automatic fuel-feeding mechanism. No. 1,348,414; Aug. 3; v. 277; p. 56.
Hebern, William. (See Rial, L., and Hebern.)
Heckle, George R., Montreal, Quebec, Canada. Pile. No. 1,349,994; Aug. 10; v. 277; p. 219.
Heideman, Fred J., assignor to Household Utilities Corporation, Detroit, Mich. Refrigerating-tank. No. 1,350,453; Aug. 24; v. 277; p. 624.
Heil, Jesse P., Wheeling, W. Va. Power-operated shears. No. 1,351,569; Aug. 31; v. 277; p. 905.
Heiliger, Paul, assignor of one-third to L. J. Clarke and one-third to E. E. Clarke, Chicago, Ill. Pumping mechanism for stationary vacuum-cleaners. No. 1,351,210; Aug. 31; v. 277; p. 833.
Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Incandescent-lamp guard. No. 1,351,474; Aug. 31; v. 277; p. 886.
Heller, Emil, *et al.* (See Brewster, Guy O., assignor.)
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,349,376; Aug. 10; v. 277; p. 295.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,349,377; Aug. 10; v. 277; p. 295.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Dynamo-electric machine. No. 1,351,035; Aug. 31; v. 277; p. 799.
Hellmund, Rudolf E., Pittsburgh, and R. E. Ferris, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Co. Dynamo-electric machine. No. 1,351,036; Aug. 31; v. 277; p. 799.
Hellweg, Rudolph F., El Paso, Tex. Bed. No. 1,350,155; Aug. 17; v. 277; p. 519.
Helwig, Herman H., assignor to Pivot Button Company, Inc., Philadelphia, Pa. Button. No. 1,349,761; Aug. 17; v. 277; p. 443.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,348,174; Aug. 3; v. 277; p. 8.
Hemleb, Martin. (See Kopf, E. A., and Hemleb.)
Hempy-Cooper Manufacturing Co. (See Hempy, Wilbur J., assignor.)
Hempy, Wilbur J., Kansas City, Mo., assignor to Hempy-Cooper Manufacturing Co. Combination ladle and babbitting-jig. No. 1,351,247; Aug. 31; v. 277; p. 840.
Hempy, Wilbur J., Ottawa, Kans. Convertible vehicle-rack. No. 1,351,475; Aug. 31; v. 277; p. 886.
Hench & Dromgold Company. (See Birnstock, William W., assignor.)
Henderson, George. (See Barter, Douglas, assignor.)
Henig Engine Co. (See Henig, Frank L., assignor.)
Henig, Frank L., Chicago, Ill., assignor, by mesne assignments, to Henig Engine Co. Inlet or check valve. No. 1,350,610; Aug. 24; v. 277; p. 655.
Henske, Edward A. (See Trammell, Charles M., assignor.)
Herb, Jacob J., Toronto, Ontario, Canada. Clothes-wringer attachment for washtubs. No. 1,348,797; Aug. 3; v. 277; p. 128.
Herbert, Pitt H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,349,378; Aug. 10; v. 277; p. 296.
Herbst, Robert L., Hortonville, Wis. Pulley. No. 1,348,415; Aug. 3; v. 277; p. 56.
Herlihy, Daniel, and M. H. Fisher, Chicago, Ill.; said Fisher assignor to said Herlihy. Wrench. No. 1,349,762; Aug. 17; v. 277; p. 444.
Herreshoff, Algernon S. D., Bristol, R. I. Oil-burning boiler. No. 1,348,563; Aug. 3; v. 277; p. 84.
Herrick, Henry N., Bakersfield, Calif. Apparatus for separating solids from liquids. No. 1,349,881; Aug. 17; v. 277; p. 466.
Herrick, Percy H., Pittsburgh, Pa. Toy vehicle. No. 1,349,509; Aug. 10; v. 277; p. 321.
Herrington, John A. D., Tupelo, Miss., assignor of one-fourth to E. B. Hulsey, Earle, Ark., one-fourth to W. A. Blair, and one-fourth to G. H. Hill, Tupelo, Miss. Testing apparatus. No. 1,350,368; Aug. 24; v. 277; p. 606.
Herrmann, Frederick G. (See Mevers, Charles W., and Herrmann.)
Herschmann, Arthur J., New York, N. Y. Fluid-container. No. 1,351,330; Aug. 31; v. 277; p. 857.
Herschmann, Arthur J., New York, N. Y. Fluid-receptacle. No. 1,351,331; Aug. 31; v. 277; p. 857.
Herzberger, Alfred A. (See Fritz, L. G., and Herzberger.)
Hess, Charles. (See Kabaci, John, assignor.)
Hess, Simon B., Jamaica, N. Y. Electric signaling system. No. 1,351,422; Aug. 31; v. 277; p. 875.
Hess, Simon B., New York, N. Y. Fire-alarm system. No. 1,351,514; Aug. 31; v. 277; p. 893.
Hesselman, Knut J. E., Saltsjö-Storängen, Sweden. Fluid-pump for multicylinder-internal-combustion engine. No. 1,348,646; Aug. 3; v. 277; p. 100.
Hessey, John L., Philadelphia, Pa. Mixing-knife. No. 1,350,098; Aug. 17; v. 277; p. 508.
Hester, Edgar A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,349,379; Aug. 10; v. 277; p. 296.
Hester, Luther. (See Latham, C. L., and Hester.)
Hetherington, Carl F., Indianapolis, Ind. Combined asphalt-kettle and steam-generating plant. No. 1,350,502; Aug. 24; v. 277; p. 634.
Hettrich, John, Lincoln, Nebr. Mechanical movement. No. 1,348,880; Aug. 10; v. 277; p. 197.
Hewey, Peleg T., Malden, Mass. Knockdown tool-box. No. 1,350,099; Aug. 17; v. 277; p. 508.
Hewitt, Peter C., Ringwood Manor, N. J. Flying-machine. No. 1,350,454; Aug. 24; v. 277; p. 624.
Hewitt, Peter C., Ringwood Manor, N. J. Helicopter. No. 1,350,455; Aug. 24; v. 277; p. 625.
Hewitt, Peter C., Ringwood Manor, N. J. Helicopter. No. 1,350,456; Aug. 24; v. 277; p. 625.
Hewitt, Thomas J., Grand Forks, N. D. Finger-board attachment. No. 1,351,570; Aug. 31; v. 277; p. 905.
Heywood, Frederick W., Prahran, Melbourne, Australia. Metal-cutting tool. No. 1,348,279; Aug. 3; v. 277; p. 30.
Hidden, Charles P., Providence, R. I., assignor to Nitrogen Products Company. Furnace. No. 1,348,175; Aug. 3; v. 277; p. 8.
Higgins, Camillus B. (See Machek, L., and Higgins.)
Higgs, John A., Wareham, Mass. Bottle-opener. No. 1,351,646; Aug. 31; v. 277; p. 920.
Highkin, David S., Baltimore, Md. Posterior interchangeable tooth and backing for bridgework. No. 1,348,798; Aug. 3; v. 277; p. 128.
Highkin, David S., Baltimore, Md. Posterior interchangeable tooth and backing for bridgework. No. 1,348,799; Aug. 3; v. 277; p. 128.
Hilbert, Baptiste, deceased, assignor of one-half to G. H. Hilbert, Worcester, Mass.: J. L. Hilbert, executrix. Loom. No. 1,351,515; Aug. 31; v. 277; p. 893.
Hilbert, George H. (See Hilbert, Baptiste, assignor.)
Hilbert, Julie L., executrix. (See Hilbert, Baptiste.)
Hilderbran, P. A. (See Glynn, Guilford C., assignor.)
Hilferty, Charles D., Yonkers, assignor to Locomotive Superheater Company, New York, N. Y. Drifting and by-pass valve. No. 1,351,168; Aug. 31; v. 277; p. 824.
Hill, Arthur H. (See Farquhar, M. G., and Hill.)
Hill, Chauncy H., assignor of one-half to Minneapolis Threshing Machine Co., Hopkins, Minn. Band-cutter and feeder. No. 1,350,802; Aug. 24; v. 277; p. 692.
Hill, Cortland L., *et al.* (See Anderson, Chester H., assignor.)
Hill, George H., *et al.* (See Herrington, John A. D., assignor.)
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Chart. No. 1,351,332; Aug. 31; v. 277; p. 858.
Hill, Walter C., Los Angeles, Calif. Arch-support. No. 1,351,248; Aug. 31; v. 277; p. 840.
Hill, Walter G., Chicago, Ill. Scribing device. No. 1,351,476; Aug. 31; v. 277; p. 886.
Hill, William E., Alton, N. H. Incubator attachment. No. 1,351,647; Aug. 31; v. 277; p. 920.
Hilley, Seaborn A., Leonard, Tex. Jar and can lifter. No. 1,348,416; Aug. 3; v. 277; p. 57.
Hills, Harry B., Tompkinsville, assignor to Steward Davit & Equipment Corporation, New York, N. Y. Ship's davit. No. 1,351,571; Aug. 31; v. 277; p. 905.
Himes Cohen Tractor Co. (See Himes, Walter H., assignor.)
Himes, Walter H., assignor to Himes Cohen Tractor Co., Grove City, Pa. Tractor-plow. No. 1,348,995; Aug. 10; v. 277; p. 219.
Himmel, Solomon. (See Woltz, Albert M., assignor.)
Hinckley, Percy P., assignor to Foster, Merriam & Company, Meriden, Conn. Combined valve-lifter and handvise. No. 1,350,803; Aug. 24; v. 277; p. 692.
Hinckley, Percy P., Meriden, Conn., assignor to Foster, Merriam & Company. Valve grinder. No. 1,350,804; Aug. 24; v. 277; p. 692.
Hinerfeld, Irving, New York, N. Y. Envelop sealing and stamping machine. No. 1,348,493; Aug. 3; v. 277; p. 70.
Hinz, William H., *et al.* (See De Cano, Victor M., assignor.)
Hipkins, Jesse N., Wheeling, W. Va., and F. C. Coss, Martins Ferry, Ohio. Water-motor. No. 1,348,800; Aug. 3; v. 277; p. 128.
Hipple, Oliver P., Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,349,380; Aug. 10; v. 277; p. 296.
Hirner, Emil A., Allentown, Pa. Spring-needle knitting-machine. No. 1,349,132; Aug. 10; v. 277; p. 246.
Hirschy Company, The. (See Hirschy, Herman C., assignor.)
Hirschy, Herman C., assignor to The Hirschy Company, Minneapolis, Minn. Washing-machine. No. 1,349,338; Aug. 10; v. 277; p. 287.
Hirshstein, Joseph, St. Louis, Mo. Double-drainage roof-drain and sediment-cup. No. 1,348,945; Aug. 10; v. 277; p. 210.
Hirst, Charles S., deceased, Philadelphia, Pa., C. I. Cronin and Logan Trust Company, executors. Culinary utensil. No. 1,350,651; Aug. 24; v. 277; p. 662.
Hirth, Carl A., Cannstatt, near Stuttgart, assignor to Fortuna-Werke Albert Hirth, Cannstatt, Germany. Machine for skiving leather. No. 1,348,221; Aug. 3; v. 277; p. 18.
Hitchcock Experiment Company. (See Hitchcock, Halbert K., assignor.)

Hitchcock, Halbert K., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-drawing bait and using it. No. 1,349,200; Aug. 10; v. 277; p. 260.
Hitchcock, Halbert K., Pittsburgh, Pa., assignor of one-half to Hitchcock Experiment Company. Apparatus for drawing glass sheets. No. 1,349,201; Aug. 10; v. 277; p. 260.
Hitt, Samuel E., Elyria, Ohio. Disappearing turret. No. 1,351,383; Aug. 31; v. 277; p. 868.
Hlasko, Vatslav A., New York, N. Y. Puzzle. No. 1,349,456; Aug. 10; v. 277; p. 310.
Hoagland, Frank O., Bridgeport, Conn. Plug or thread gage. No. 1,350,311; Aug. 24; v. 277; p. 596.
Hobbs, Clarence W., and E. A. Copeland, assignors to Hobbs Manufacturing Company, Worcester, Mass. Coin-controlled vending-machine. No. 1,348,876; Aug. 10; v 277; p. 196.
Hobbs Manufacturing Company. (See Hobbs, C. W., and Copeland, assignors.)
Hoblitt, Frederic M., New York, N. Y. Vehicle-body. No. 1,349,959; Aug. 17; v. 277; p. 481.
Hocevar, Josip, *et al.* (See Turk, Frank, assignor.)
Hodge & Graves Company. (See Knights, George L., assignor.)
Hodges, Edward G., Marshalltown, Iowa. Speed-limiting device. No. 1,348,831; Aug. 3; v. 277; p. 134.
Hodges, Edward G., Marshalltown, Iowa. Air-control and heat-regulating device for internal-combustion engines. No. 1,351,477; Aug. 31; v. 277; p. 886.
Hodges, John. (See Gordon, N. Y., and Hodges.)
Hodges, Lewis E., Tarboro, N. C. Commutator. No. 1,351,648; Aug. 31; v. 277; p. 920.
Hodgkins, Albert A., Bridgeport, Conn. Shuttle-motion for two-bank looms. No. 1,348,417; Aug. 3; v. 277; p. 57.
Hoe, R., and Co. (See Schmidt, Louis A., assignor.)
Hoepner, George, Chicago, Ill. Machine for mixing powdered or granular materials. No. 1,349,960; Aug. 17; v. 277; p. 481.
Hoerner, Frank, Los Angeles, Calif. Adjustable valve-seat facer. No. 1,349,153; Aug. 10; v. 277; p. 251.
Hoffay, Joseph, New York, N. Y. Phonograph-control. No. 1,349,763; Aug. 17; v. 277; p. 444.
Hoffer, Ivan L., Marcus, Wash. Puzzle. No. 1,351,384; Aug. 31; v. 277; p. 868.
Hoffman, George D., Pasadena, Calif., assignor to Hoffman Specialty Company, Chicago, Ill. Steam-trap for radiators. No. 1,351,037; Aug. 31; v. 277; p. 799.
Hoffman, Henry, East Rutherford, N. J. Display-form. No. 1,351,516; Aug. 31; v. 277; p. 894.
Hoffman, John F., Rochester, N. Y. Refrigerating apparatus. No. 1,350,550; Aug. 24; v. 277; p. 643.
Hoffman, Ray, Newport, Ky., assignor to National Marking Machine Company, Cincinnati, Ohio. Laundry-marking clip. No. 1,349,570; Aug. 17; v. 277; p. 406.
Hoffman Specialty Company. (See Hoffman, George D., assignor.)
Hoffmann, William R., New York, N. Y. Safety instrument-holder. No. 1,348,718; Aug. 3; v. 277; p. 113.
Hofmeister, Leo., Milwaukee, Wis. Vehicle-wheel. No. 1,350,457; Aug. 24; v. 277; p. 625.
Hofstetter, Charles, Peoria, Ill. Ventilator. No. 1,349,764; Aug. 17; v. 277; p. 444.
Hogan, John L., Jr., assignor, by mesne assignments, to International Radio Telegraph Company, Brooklyn, N. Y. Radiosignaling. No. 1,350,100; Aug. 17; v. 277; p. 508.
Hoge, Harry C., Chicago, Ill. Locomotive-cab window. No. 1,348,647; Aug. 3; v. 277; p. 100.
Hokanson, Martin, Duluth, Minn. Shovel-testing machine. No. 1,350,458; Aug. 24; v. 277; p. 625.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter. No. 1,348,946; Aug 10; v. 277; p. 210.
Holbrook, Eugene, and M. E. Holbrook, Oakland, Calif. Rotary character toy. No. 1,349,202; Aug. 10; v. 277; p. 260.
Holbrook, Mollie E. (See Holbrook, Eugene, and M. E.)
Holcomb & Hoke Manufacturing Company. (See Booth, Earl C., assignor.)
Holdaway, Ralf H. (See Gabel, T. R., and Holdaway.)
Holecek, Louis, Oakland, Calif. Combined periscope and gun. No. 1,351,649; Aug. 31; v. 277; p. 920.
Holland, Joseph R., Youngstown, Ohio. Train-coupling. No. 1,348,947; Aug. 10; v. 277; p. 210.
Holland, Van O., *et al.* (See Hall, James L., assignor.)
Hollenbeck, William H., Portland, Oreg. Floor and paving block. No. 1,348,418; Aug. 3; v. 277; p. 57.
Holliday, Jeremiah R., Winnsboro, S. C. Chair. No. 1,350,021; Aug. 17; v. 277; p. 493.
Holliday, L. B., & Co. (See Badger, L. G., and Holliday, assignors.)
Holliday, Lionel B. (See Badger, L. G., and Holliday.)
Hollister, William C., Chicago, Ill. Ruled linotype-form and means for producing same. No. 1,349,720; Aug. 17; v. 277; p. 436.
Holloway, William M., Maywood, Ill., assignor to American Can Company, New York, N. Y. Listing-adder. No. 1,348,566; Aug. 3; v. 277; p. 84.
Holmes, Anderson M., Baltimore, Md., assignor of fifteen one-hundredths to M. Smith, fifteen one-hundredths to A. L. Fisk, nineteen one-hundredths to O. I. Woodley, eighteen one-hundredths to W. F. Metcalf, and thirty-three one-hundredths to E. L. Torsch. Atomizer. No. 1,351,012; Aug. 24; v. 277; p. 731.
Holmes, Andrew E., New York, N. Y. Drink mixer and dispenser. No. 1,348,222; Aug. 3; v. 277; p. 18.
Holmes, Edward, St. Louis, Mo. Sign character. No. 1,349,670; Aug. 17; v. 277; p. 426.
Holmes, Ephraim M., Minneapolis, Minn., assignor to D. E. French, Stuart, Fla. Traction-engine. No. 1,348,877; Aug. 10; v. 277; p. 196.
Holton, Birchard E., Los Angeles, Calif. Air-brush. No. 1,349,154; Aug. 10; v. 277; p. 251.
Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Locomotive. No. 1,351,038; Aug. 31; v. 277; p. 800.
Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Electric locomotive. No. 1,351,039; Aug. 31; v. 277; p. 800.
Homan, Frank W., Philadelphia, Pa. Turned shoe. No. 1,350,156; Aug. 17; v. 277; p. 519.
Homan, Walter A., Denver, Colo. Rotary engine. No. 1,349,882; Aug. 17; v. 277; p. 466.
Homeniuk, Werona, Woodlight, Saskatchewan, Canada. Envelop. No. 1,350,928; Aug. 24; v. 277; p. 715.
Honda Tomotake, Ongagun, assignor to H. Nishimura, Tokyo, Japan. Manufacturing elastic imitation hemp. No. 1,351,385; Aug. 31; v. 277; p. 868.
Hönig, Edgar, Wilmersdorf-Berlin, assignor to the Firm Optische Signale Gesellschaft mit beschränkter Haftung, Berlin, Germany. Optical sign. No. 1,349,277; Aug. 10; v. 277; p. 276.
Honsinger, Ornan A., Tacoma, Wash. Folding davenport-bed. No. 1,349,883; Aug. 17; v. 277; p. 467.
Honstedt, Orra V., Upland, Calif. Tree-protecting apparatus. No. 1,351,240; Aug. 31; v. 277; p. 840.
Hood Rubber Company. (See Perrault, Joseph E., assignor.)
Hooper, Harris G., San Francisco, Calif. Aeroplane construction. No. 1,348,906; Aug. 10; v. 277; p. 219.
Hoover, Herbert W., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Method of and apparatus for protecting the bearings of suction-cleaners. No. 1,349,765; Aug. 17; v. 277; p. 445.
Hoover Suction Sweeper Co., The. (See Hoover, Herbert W., assignor.)
Hopkins, Frank H., Somerville, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Diaphragm-gage. No. 1,349,884; Aug. 17; v. 277; p. 467.
Hopkins, Ralph Z., Detroit, Mich. Building construction. No. 1,350,805; Aug. 24; v. 277; p. 692.
Hopkins, Richard M., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Signaling system. No. 1,349,961; Aug. 17; v. 277; p. 481.
Hopkinson, Ernest, New York, N. Y. Making pneumatic-tire casings. No. 1,349,423; Aug. 10; v. 277; p. 304.
Hopkinson, Ernest, New York, N. Y. Apparatus for making pneumatic-tire casings. No. 1,349,424; Aug. 10; v. 277; p. 304.
Hopkinson, Ernest, New York, N. Y. Apparatus for use in vulcanizing pneumatic-tire casings for vehicles. No. 1,349,721; Aug. 17; v. 277; p. 436.
Hopwood, John M., assignor to The Hagan Corporation, Pittsburgh, Pa. Ash-conveyer. No. 1,351,572; Aug. 31; v. 277; p. 905.
Hopwood, John M., Dormont, assignor to The Hagan Corporation, Pittsburgh, Pa. Ash-conveyer. No. 1,351,573; Aug. 31; v. 277; p. 905.
Horn, Abraham E., New York, N. Y. Treating lime. No. 1,348,894; Aug. 3; v. 277; p. 71.
Horn, Joe, Kelvin, Ariz. Rubber-set rifle. No. 1,351,260; Aug. 31; v. 277; p. 841.
Horne, Henry M., assignor of one-half to W. J. Sudderth, Sulphur Springs, Tex. Spring-wheel. No. 1,349,339; Aug. 10; v. 277; p. 287.
Hornquist, Frank, Mount Jewett, Pa. Rubber sole. No. 1,351,291; Aug. 31; v. 277; p. 849.
Horton, Bryson D., Detroit, Mich., and W. P. Hammond, Passaic, N. J.; said Hammond assignor to said Horton. Electrical switch. (Reissue.) No. 14,942; Aug. 31; v. 277; p. 935.
Horton, Frederick W., Hackensack, N. J. Treating celluloid products. No. 1,350,157; Aug. 17; v. 277; p. 519.
Horton, W. R. (See Scott, George W., assignor.)
Host, Lloyd N., Grand Rapids, Mich. Record-placer. No. 1,349,611; Aug. 17; v. 277; p. 414.
Hotchkin, Paul M., assignor to National X-Ray Reflector Co., Chicago, Ill. Headlight-reflector. No. 1,351,169; Aug. 31; v. 277; p. 824.
Hotchkiss, Mark S., Binghamton, N. Y. Staking device for road-rails. No. 1,349,340; Aug. 10; v. 277; p. 288.
Hotka, Frank G., Cudahy, Wis. Glove-sewing machine. No. 1,348,176; Aug. 3; v. 277; p. 9.
Hottman, Charles W., assignor to C. Offenhauser, Philadelphia, Pa. Mixer and separator. No. 1,349,203; Aug. 10; v. 277; p. 260.
Houghton, Carley E., Mulberry, Kans. Steam-shovel trip. No. 1,348,719; Aug. 3; v. 277; p. 114.
Hougland, Clarence W., Seal Beach, Calif. Vegetable-topper. No. 1,349,204; Aug. 10; v. 277; p. 261.
House, Horace, Bayl, Calif. Tractor. No. 1,349,065; Aug. 10; v. 277; p. 233.
Household Utilities Corporation. (See Heideman, Fred J., assignor.)
Hovis, Charles W., Clintonville, Pa. Door-locking means. No. 1,350,226; Aug. 17; v. 277; p. 533.

Howard, Obadiah D., and H. W. Keep, St. Paul, Minn. Comb for drying and straightening hair. No. 1,349,425; Aug. 10; v. 277; p. 304.
Howe, Paul J., Ridgewood, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Adjustable condenser. No. 1,350,279; Aug. 17; v. 277; p. 543.
Howe, Paul J., Ridgewood, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Adjustable rheostat. No. 1,350,280; Aug. 17; v. 277; p. 543.
Howe Rubber Corporation. (See Schmidt, John, assignor.)
Howell, Edward D., Springfield, assignor to Tuttle & Bailey Mfg. Co., New York, N. Y. Register or grill. No. 1,348,360; Aug. 3; v. 277; p. 45.
Howell, George W., Los Angeles, Calif. Rock-drill or impact engine. No. 1,348,280; Aug. 3; v. 277; p. 30.
Hubbard, Norman, Elizabeth, N. J., assignor of one-half to H. M. Stewart, New York, N. Y. Water-heater. No. 1,349,571; Aug. 17; v. 277; p. 406.
Hubbard, Walter L., Ferris, Ill. Mechanism for adjusting propeller-pitch. No. 1,350,312; Aug. 24; v. 277; p. 596.
Hubbell, Clarence W., Naugatuck, Conn., assignor to The Goodyear's India Rubber Glove Manufacturing Company. Boot. No. 1,349,572; Aug. 17; v. 277; p. 406.
Huculiak, Hryhoryj, Clearing, Ill. Baby-carriage. No. 1,350,806; Aug. 24; v. 277; p. 692.
Hudson, Henry, Malvern, Victoria, Australia. Insert for concrete and the like, to receive nails and other fasteners, or building elements. No. 1,348,801; Aug. 3; v. 277; p. 129.
Huebner, Otto E., Brooklyn, N. Y. Means for establishing auxiliary convection in liquid-containers. No. 1,350,728; Aug. 24; v. 277; p. 678.
Huffer, Arthur J., Philadelphia, Pa. Window-lock. No. 1,351,650; Aug. 31; v. 277; p. 920.
Hug, George A. (See Baron, Robert R., assignor.)
Hughes, Charles J., Summerville, S. C. Automobile-signal. No. 1,350,998; Aug. 24; v. 277; p. 728.
Hughes, Howard R., Houston, Tex. Cross-roller drill-bit. No. 1,348,419; Aug. 3; v. 277; p. 57.
Hughes, James H. (See Wiedeman, G. J., and Hughes.)
Hughes, James W., Philadelphia, Pa. Offset stylus-arm. No. 1,349,205; Aug. 10; v. 277; p. 261.
Hughes, William E., Greenville, S. C., assignor to R. O. Brooks, Atlanta, Ga. Brush. No. 1,350,652; Aug. 24; v. 277; p. 662.
Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Sheet-feeding machine. No. 1,349,133; Aug. 10; v. 277; p. 246.
Hulsey, Ellie B., *et al.* (See Herrington, John A. A., assignor.)
Hultin, Enoch P., Flint, Mich. Pump for inflating pneumatic tires. No. 1,349,671; Aug. 17; v. 277; p. 426.
Humes, Guy B., Chicago, Ill. Appliance for horn musical instruments. No. 1,350,409; Aug. 24; v. 277; p. 615.
Hump Hairpin Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)
Humphrey Gas Pump Company. (See Trump, E. N., and Friedrichs, assignors.)
Humphrey Gas Pump Company. (See Vernon, Wilfred F., assignor.)
Humphrey, Starling H. (See Korff, F. H., and Humphrey.)
Humphrey, Starling H., New York, and F. H. Korff, Brooklyn, N. Y. Expansion-reamer. No. 1,349,968; Aug. 17; v. 277; p. 483.
Hunt, Alma C., New York, N. Y. Blood-removing and etherizing apparatus. No. 1,349,766; Aug. 17; v. 277; p. 444.
Hunt, Ocie, *et al.* (See Hall, James L., assignor.)
Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,348,997; Aug. 10; v. 277; p. 220.
Hunter, James W., Mobile, and E. Williamson, Selma, Ala. Automobile-lock. No. 1,351,651; Aug. 31; v. 277; p. 920.
Hurd, Enos A., Woodward, Okla. Lifting-handle for storage batteries. No. 1,349,457; Aug. 10; v. 277; p. 310.
Hurlburt, Edward N., assignor to Taylor Instrument Companies, Rochester, N. Y. Metastatic thermometer. No. 1,350,158; Aug. 17; v. 277; p. 519.
Hurlbut, Frank A., Kansas City, Mo. Thermostatic control for cooling mediums. No. 1,348,420; Aug. 3; v. 277; p. 57.
Hurley Machine Company. (See Fisher, Alva J., assignor.)
Hurlimann, Ernst. (See Schneider, J., Hurlimann, and Dillon.)
Hurlimann, Ernst, Fachwil, near Solothurn, assignor to the Firm Scintilla, Solothurn, Switzerland. Mechanism for regulating the point of ignition in magneto-electric ignition apparatus. No. 1,349,278; Aug. 10; v. 277; p. 276.
Huron Portland Cement Company. (See Crepo, S. T., and Jenkins, assignor.)
Hutchins, Allan S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,349,341; Aug. 10; v. 277; p. 288.
Hutchinson, David M., *et al.* (See Hachmann, Frederick, assignor.)
Hutchinson, Morton C., Woodbury, assignor of one-half to L. G. Brokwalter, Merchantville, N. J. Pisten and rings therefor. No. 1,348,966; Aug. 10; v. 277; p. 220.
Hutchison, Arthur E., and H. Krah, New York, N. Y. Base for jacks. No. 1,350,970; Aug. 24; v. 277; p. 723.
Hutchison, Miller Reese, Inc. (See Hutchison, Miller R., assignor.)
Hutchison, Miller R., West Orange, N. J., assignor to Miller Reese Hutchison, Inc. Lock-cabinet for phonograph-records. No. 1,351,338; Aug. 31; v. 277; p. 858.
Hutchison, Miller R., assignor to Miller Reese Hutchison, Inc., West Orange, N. J. Filing-cabinet with locking-compartments. No. 1,351,423; Aug. 31; v. 277; p. 876.
Huttner, Joe, Sierra Madre, Calif. Lid-holder. No. 1,349,155; Aug. 10; v. 277; p. 251.
Hyatt, Frank S., Brooklyn, N. Y. Hinged box. No. 1,348,578; Aug. 10; v. 277; p. 196.
Hyatt, Frank S., Brooklyn, N. Y. Vanity-box. No. 1,349,672; Aug. 17; v. 277; p. 426.
Hyatt, Frank S., Brooklyn, N. Y. Vanity-box. No. 1,349,673; Aug. 17; v. 277; p. 426.
Hydraulic Pressed Steel Company, The. (See Davidson, Harry O., assignor.)
Hyland, Oltron R., Astoria, Oreg. Packing-auger. No. 1,350,999; Aug. 24; v. 277; p. 728.
Hyman, Charles H., Chicago, Ill. Toy. No. 1,348,421; Aug. 3; v. 277; p. 58.
Hyman, Charles H., Chicago, Ill. Toy. No. 1,348,422; Aug. 3; v. 277; p. 58.
Hyman, Charles H., Chicago, Ill. Toy. No. 1,348,423; Aug. 3; v. 277; p. 58.
Ideal Wheel Company, The. (See Strietelmeier, John E., assignor.)
Ihnat, Michael, Detroit, Mich. Railway safety appliance. No. 1,349,834; Aug. 17; v. 277; p. 457.
Imperial Electric Company. (See Schurch, Jacob, assignor.)
Independent Mines Smelting Company. (See Ward, Randolph G., assignor.)
Indiana Air Pump Company. (Reissue.) (See Pruitt, Oran M., assignor.)
Industrial Research Corporation. (See Green, Charles F., assignor.)
Ingersoll-Rand Company. (See Christmas, Adolph F., assignor.)
Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)
Ingersoll-Rand Company. (See Haight, Harry V., assignor.)
Ingersoll-Rand Company. (See Smith, William A., assignor.)
Insko, Walter D., Anselmo, Nebr. Brooder. No. 1,350,971; Aug. 24; v. 277; p. 723.
International Cellulose Company. (See Ostenberg, Zeno, assignor.)
International Conveyor Corporation. (See Steuart, Francis L., assignor.)
International Harvester Company. (See Raney, Clemma R., assignor.)
International Radio Telegraph Company. (See Hogan, John L., Jr., assignor.)
Intertype Corporation. (See Berry, Alfred M., assignor.)
Ionides, Alexander C., Jr., London, England. Heating apparatus. No. 1,349,279; Aug. 10; v. 277; p. 276.
Iron Horse Tractor Company, The. (See Gardiner, Lon M., assignor.)
Irvin, James R. (See Smith, W. I., and Irvin.)
Irvin, King, and A. Lennox, Washington, D. C. Method of and apparatus for pouring molten metal. No. 1,350,972; Aug. 24; v. 277; p. 723.
Irvine, Benjamin, Everett, Wash. Leaf-supporting mechanism. No. 1,350,503; Aug. 24; v. 277; p. 634.
Ithaca Gun Company. (See Curtis, Arthur P., assignor.)
Ivory, James W., Philadelphia, Pa. Rubber-dam-clamp forceps. No. 1,349,767; Aug. 17; v. 277; p. 445.
Jackman, George C., *et al.* (See Litchfield, Charles T., assignor.)
Jackson Compressor Company, The. (See Jackson, Henry O., assignor.) (Reissue.)
Jackson, Edith A., Prahran, near Melbourne, Victoria, Australia. Device for cleansing the interior of bottles and other receptacles. No. 1,350,807; Aug. 24; v. 277; p. 693
Jackson, George B., Chicago, Ill. Radiator and process of and apparatus for producing same. No. 1,350,022; Aug. 17; v. 277; p. 493.
Jackson, Henry O., assignor to The Jackson Compressor Company, Denver, Colo. Check-valve. (Reissue.) No. 14,943; Aug. 31; v. 277; p. 935.
Jackson, Joseph W., Anderson, Ind. Electric butt-welding and molding device for metal wheel-rims. No. 1,348,948; Aug. 10; v. 277; p. 210.
Jackson, Walter A., Laurel, Ind. Tractor-steering control for plowing. No. 1,349,342; Aug. 10; v. 277; p. 288.
Jacobi, Karl J., Roselle Park, N. J., assignor to Pacific Coast Borax Company, New York, N. Y. Recovery of potassium salts and borax. No. 1,349,134; Aug. 10; v. 277; p. 246.
Jacobsen, Emil, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,349,381; Aug. 10; v. 277; p. 296.
Jaques, Fernando O., Jr. (See Jaques, Fernando O., Sr., assignor.)
Jagger, Frank and R. C., Oldham, England. Musical wind instrument. No. 1,349,722; Aug. 17; v. 277; p. 436.

Jagger, Richard C. (See Jagger, Frank and R. C.)
James, Carlton C., Honolulu, Hawaii. Phosphatic fertilizer and manufacturing same. No. 1,348,495; Aug. 3; v. 277; p. 71.
James, William A., Woonsocket, R. I. Milling-cutter. No. 1,351,386; Aug. 31; v. 277; p. 868.
James, William T., Chicago, Ill. Wagon-loading apparatus. No. 1,351,040; Aug. 31; v. 277; p. 800.
Janney, Robert E. L. (See Kaney, Alonzo W., assignor.)
Janson, Carl G., and C. J. Braun, Oakland, Calif. Bunk. No. 1,349,962; Aug. 17; v. 277; p. 482.
Jaques, Fernando O., Sr., assignor to F. O. Jaques, Jr., Providence, R. I. Micrometer-caliper. No. 1,349,612; Aug. 17; v. 277; p. 414.
Jarvis, John G., Stamford, N. Y. Pyroxylin sheet of low inflammability. No. 1,349,156; Aug. 10; v. 277; p. 251.
Jarvis, John G., Stamford, N. Y. Making pyroxylin products. No. 1,351,652; Aug. 31; v. 277; p. 921.
Jeffers, Owen R., assignor to General Patent Manufacturing Company, Chicago, Ill. Bathing-cap. No. 1,349,206; Aug. 10; v. 277; p. 261.
Jeffrey Manufacturing Company, The. (See Dunlop, Robert R., assignor.)
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jeffries, Oscar S., Sr., assignor of one-half to G. W. Kirk, Philadelphia, Pa. Shock-absorber. No. 1,350,313; Aug. 24; v. 277; p. 596.
Jeffries, Winfield S., Great Falls, Mont. Seed-separating device. No. 1,350,973; Aug. 24; v. 277; p. 724.
Jenkins, Charles F., Washington, D. C. Limiting combustion of picture-films. No. 1,348,177; Aug. 3; v. 277; p. 9.
Jenkins, Charles F., Washington, D. C. Fire-extinguisher for motion-picture apparatus. No. 1,348,565; Aug. 3; v. 277; p. 85.
Jenkins, Charles F., Washington, D. C. Motion-picture framing. No. 1,348,566; Aug. 3; v. 277; p. 85.
Jenkins, Charles W., Ellerson, assignor of one-half to L. B. Hancock, Richmond, Va. Auxiliary air and water supplying device. No. 1,351,170; Aug. 31; v. 277; p. 824.
Jenkins, Clarence E., Keene, N. H. Potato-masher. No. 1,349,885; Aug. 17; v. 277; p. 467.
Jenkins, Frank E., Medford, Oreg. Valve-spring compressor. No. 1,351,424; Aug. 31; v. 277; p. 876.
Jenkins, Joseph R. (See Crapo, Standford T., and Jenkins, assignors.)
Jenkins, Massey P., Newport News, Va. Sealed lock for car-doors. No. 1,349,280; Aug. 10; v. 277; p. 276.
Jenkins, Stanley S., Chicago, Ill. Means for lifting and transporting invalids. No. 1,349,674; Aug. 17; v. 277; p. 426.
Jennings, John T., Birmingham, England. Carbureter. No. 1,349,835; Aug. 17; v. 277; p. 457.
Jensen, Frederik, Rochester, N. Y. Fuel-tank for internal-combustion engines. No. 1,350,808; Aug. 24; v. 277; p. 693.
Jensen, George C., Oakland, Calif. Shift-block lock and retainer. No. 1,348,802; Aug. 2. v. 277; p. 129.
Jensen, George C., Oakland, Calif. Lock for shifter-blocks. No. 1,348,803; Aug. 3; v. 277; p. 129.
Jensen, Harry G. (See Foss, G. E., and Jensen.)
Jerabek, Charles, assignor to Louis Rothschild, Philadelphia, Pa. Auto-tire-tube carrier. No. 1,351,517; Aug. 31; v. 277; p. 894.
Jerome, William E., Rockville Center, N. Y. Lighting-fixture. No. 1,350,809; Aug. 24; v. 277; p. 693.
Jerrim, James H., Bromsgrove, England. Machine or other vise. No. 1,349,963; Aug. 17; v. 277; p. 482.
Jesse, Eoline B., Nuttsville, Va. Pie-plate holder. No. 1,351,387; Aug. 31; v. 277; p. 869.
Jessen, Arnold H., assignor to Big Four Wheel Company, Los Angeles, Calif. Variable-speed device. No. 1,350,255; Aug. 17; v. 277; p. 538.
Jester, Herbert W., Dallas, Tex. Churning device. No. 1,348,496; Aug. 3; v. 277; p. 71.
Jester, Ronald B., New Cumberland, W. Va. Jack. No. 1,348,879; Aug. 10; v. 277; p. 197.
Jewell, James E., Kansas City, Mo. Measuring and delivering bin for potatoes, &c. No. 1,351,251; Aug. 31; v. 277; p. 841.
Jewell, William M., assignor to Chlorine Products Company, Chicago, Ill. Lubrication. No. 1,350,551; Aug. 24; v. 277; p. 643.
Jewett, Charles E., North Andover, Mass. Bur-conveyer attachment for wool-cards. No. 1,351,653; Aug. 31; v. 277; p. 921.
Jobe, John S., Rochester, and J. Dixond, Monaca, assignors to United States Sanitary Manufacturing Company, Pittsburgh, Pa. Method and apparatus for coating or enameling metal. No. 1,348,361; Aug. 3; v. 277; p. 46.
Jobling, Richard, Calumet, Mich. Cabinet. No. 1,351,654; Aug. 31; v. 277; p. 921.
Jochumsen, Harry A., Wheeling, W. Va. Boiler-closure for hand-holes. No. 1,349,510; Aug. 10; v. 277; p. 321.
Johansson, Gustaf E., Sundsvall, Sweden. Sorting device for sawn wood. No. 1,349,836; Aug. 17; v. 277; p. 457.
Johansson, Magnus H., assignor to Todd Protectograph Co., Rochester, N. Y. Check-writer. No. 1,350,459; Aug. 24; v. 277; p. 625.
Johansson, Johan P., Fannalund, Sweden. Adjustable support for electric lamps. No. 1,348,949; Aug. 10; v. 277; p. 210.
John, Ernest. (See Brown, H. C., and John.)
Johns-Pratt Company, The. (See Cole, Robert C., assignor.)
Johnson, Albert E., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,349,723; Aug. 17; v. 277; p. 436.
Johnson, Alvin L., *et al.* (See Alsten, Alfred O., assignor.)
Johnson, Archie A. (See Moffett, Thomas S., assignor.)
Johnson, Arthur A. (See Stickney, B. C., and Johnson.)
Johnson, Arthur W., La Crosse, Wis. Tag holder and connector. No. 1,348,261; Aug. 3; v. 277; p. 30.
Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Closure for sanitary cans. No. 1,348,567; Aug. 3; v. 277; p. 85.
Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Double seamer. No. 1,349,887; Aug. 17; v. 277; p. 457.
Johnson, Carl A., New Bedford, Mass. Lamp-bracket. No. 1,351,171; Aug. 31; v. 277; p. 824.
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift-lever lock. No. 1,350,810; Aug. 24; v. 277; p. 693.
Johnson, Dolph, Burke, Idaho, assignor of one-half to J. Carlson, Mullan, Idaho. Shears. No. 1,350,653; Aug. 24; v. 277; p. 662.
Johnson, Edward P., Chicago, Ill. Mechanical movement. No. 1,349,724; Aug. 17; v. 277; p. 436.
Johnson, Eugene A., Walla Walla, Wash. Electrical test set. No. 1,348,424; Aug. 3; v. 277; p. 58.
Johnson, George W., Latrobe, Pa. Electric printing-machine. No. 1,351,655; Aug. 31; v. 277; p. 921.
Johnson, Gustaf, and E. Nelson, Seattle, Wash. Nut-lock. No. 1,349,768; Aug. 17; v. 277; p. 445.
Johnson, Halsey M. (See Stein, Clarence L., assignor.)
Johnson, Henry H., Avoca, Iowa. Combined end-gate and shoveling-board. No. 1,351,656; Aug. 31; v. 277; p. 921.
Johnson, J. W., and A. J. Carpenter, Pine Bluff, Ark. Faucet. No. 1,351,657; Aug. 31; v. 277; p. 922.
Johnson, John N., Albuquerque, N. Mex. Convertible hair clipper. No. 1,351,041; Aug. 31; v. 277; p. 800.
Johnson, Ludwig, Helena, Mont. Tractor. No. 1,348,720; Aug. 3; v. 277; p. 114.
Johnson, Marcus, Brooklyn, N. Y. Pleasure-railway. No. 1,351,658; Aug. 31; v. 277; p. 922.
Johnson, Roswell H. (See Stiverman, A., and Johnson.)
Johnson, Sven A., Brooklyn, N. Y. Air-compressor. No. 1,350,159; Aug. 17; v. 277; p. 519.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Bolt-action firearm. No. 1,349,675; Aug. 17; v. 277; p. 427.
Johoson, Carl E., Boundbrook, N. J. Drier-tray. No. 1,349,458; Aug. 10; v. 277; p. 311.
Jokubaitis, Damian, Terre Haute, Ind. Starter for automobiles. No. 1,349,207; Aug. 10; v. 277; p. 261.
Jones, Albert C. (See Wade, Edwin T., assignor.)
Jones, Ammon K., Neosho, Mo. Plow. No. 1,348,219; Aug. 3; v. 277; p. 17.
Jones, Carl G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. System of ventilation for transformers. No. 1,351,042; Aug. 31; v. 277; p. 800.
Jones, Charles C., Los Angeles, Calif. Extracting iron from its ores. No. 1,348,804; Aug. 3; v. 277; p. 129.
Jones, Henry P., *et al.* (See Gabel, T. R., and Holdaway, assignors.)
Jones, Jay D., New York, N. Y. Light-deflector for lamps. No. 1,350,811; Aug. 24; v. 277; p. 693.
Jones, Jesse L., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Removing lead from copper-scrap. No. 1,349,382; Aug. 10; v. 277; p. 296.
Jones, Joseph, Cincinnati, Ohio, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-counter. No. 1,351,172; Aug. 31; v. 277; p. 825.
Jones, Leroy B. (See France, W. M., and Jones.)
Jones, Robert R. (See Beck, O. F., Spears, and Jones.)
Jones, Sidney P., Waco, Tex. Rotary razor. No. 1,350,227; Aug. 17; v. 277; p. 533.
Jones, Walter J., New York, N. Y., assignor to B. B. Chichester, L. P. Stradley, and H. A. Stone, trustees under a Massachusetts Trust. Cutting holes in ships' walls. No. 1,351,518; Aug. 31; v. 277; p. 894.
Jordan, Jay B., East Rochester, N. Y. Sled. No. 1,349,066; Aug. 10; v. 277; p. 233.
Jordan, Linwood F., Portland, Me. Vehicle-wheel. No. 1,351,252; Aug. 31; v. 277; p. 841.
Jorgensen, Hans P., Beloit, Wis. Horseshoe-calk wrench. No. 1,350,504; Aug. 24; v. 277; p. 634.
Joseph, Frank A. (See Rice, J. M., Joseph, and Rupp.)
Jost, John F., Leavenworth, Kans. Sash-bower. No. 1,351,659; Aug. 31; v. 277; p. 922.
Jouffret, Henri V. J., Paris, France. Internal-combustion engine. No. 1,349,459; Aug. 10; v. 277; p. 311.
Joyce, Clarence M. (See Baskerville, C., and Joyce.)
Joyce-Cridland Company, The. (See Ripsch, C. W., and Dawley, assignors.)

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,349,886; Aug. 17; v. 277; p. 467.
Jury, Alfred E., Newark, N. J., assignor to Morgan & Wright. Thread-twisting machine. No. 1,350,812; Aug. 24; v. 277; p. 694.
Justrite Manufacturing Company. (See Frisbie, William J., assignor.)
Jutkins, Edgar M., La Junta, Colo. Sash construction. No. 1,349,887; Aug. 17; v. 277; p. 467.
Kabaci, John, assignor of one-half to C. Hess, Wyano, Pa. Locking device for mail pouches or bags. No. 1,351,388; Aug. 31; v. 277; p. 869.
Kader, Carl, Hennef, assignor, by mesne assignments, to Obrima Automatische Waagenbau-Actiengesellschaft, Munich, Germany. Automatic weighing-machine. No. 1,350,611; Aug. 24; v. 277; p. 655.
Kadow, August, assignor to The Westlake Machine Company, Toledo, Ohio. Glass-gathering mechanism. No. 1,350,552; Aug. 24; v. 277; p. 643.
Kahn, Benjamin J., Elizabeth, N. J. Tobacco-leaf stretching and sizing machine. No. 1,348,497; Aug. 3; v. 277; p. 71.
Kahn, Herman, Chicago, Ill. Changeable sign. No. 1,349,769; Aug. 17; v. 277; p. 445.
Kain, Harry, C. L. Miles, and G. A. Wilkinson, Wabash, Ind. Electric glue-heater. No. 1,351,478; Aug. 31; v. 277; p. 886.
Kaiser, Alfred E., assignor to Specialty Manufacturing Company, Seattle, Wash. Photographic-printing machine. No. 1,350,256; Aug. 17; v. 277; p. 538.
Kaisha, Nihon, D. K. K. (See Yanai, Teiso, assignor.)
Kalamazoo Loose Leaf Binder Co. (See Dixon, Samuel S., assignor.)
Kalbfus, Oliver A., Baltimore, Md. Vacuum-cleaning machine. No. 1,349,964; Aug. 17; v. 277; p. 482.
Kalmus, Comstock & Wescott. (See Wescott, William B., assignor.)
Kaminski, Andzei, Uniontown, Pa. Aviator's helmet. No. 1,349,950; Aug. 10; v. 277; p. 211.
Kanawha Manufacturing Company. (See Davis, Madison T., Jr., assignor.)
Kandibinder, Emelia F., Springfield, Ill. Combined cover and closure-remover for bottles. No. 1,349,511; Aug. 10; v. 277; p. 321.
Kaney, Alonzo W., assignor of one-third to E. L. Janney, Chicago, Ill. Pneumatic shovel. No. 1,351,425; Aug. 31; v. 277; p. 876.
Karst, George, assignor to Taylor Instruments Companies, Rochester, N. Y. Valve mechanism. No. 1,351,426; Aug. 31; v. 277; p. 876.
Kasbohm, William F., Van Wert, Ohio. Sectional casing for furnaces. No. 1,350,257; Aug. 17; v. 277; p. 538.
Kasematis, George N., and B. A. Stamatelopoulos, New York, N. Y. Aeroplane. No. 1,349,460; Aug. 10; v. 277; p. 311.
Kaskouras, Thomas, St. Paul, Minn. Butter container and cutter. No. 1,348,805; Aug. 3; v. 277; p. 129.
Kaspar, John, and R. F. Bernan, Moulton, Tex. Water-level. No. 1,349,613; Aug. 17; v. 277; p. 414.
Kathe, John, Quincy, Ill. Gas-engine governor. No. 1,351,660; Aug. 31; v. 277; p. 922.
Katzmarek, Michael, Duluth, Minn. Snap-fastener. No. 1,350,314; Aug. 24, v. 277; p. 596.
Katzmarek, Michael, Duluth, Minn. Wrench. No. 1,350,315; Aug. 24; v. 277; p. 596.
Kaufman, Jean F., New York, N. Y. Color-indicating chart. No. 1,351,661; Aug. 31; v. 277; p. 922.
Kaveney, Paul J., Bloomington, Ill. Angle-cock and actuating means therefor. No. 1,349,208; Aug. 10; v. 277; p. 261.
Kawneer Manufacturing Company. (See Plym, Francis J., assignor.)
Kay, Arethusa, *et al.* (See Kay, Samuel P., assignor.)
Kay, Samuel P., assignor of one-third to R. P. Wolf, one-third to A. K. Rownd, and one-third to A. Kay, Rochester, N. Y. Tool for setting the teeth of circular saws. No. 1,349,614; Aug. 17; v. 277; p. 415.
Kazmann, Boris. (See Kellogg, J. L., and Kazmann.)
K'Burg, Eli W., Toledo, Ohio. Grease-cup. No. 1,348,362; Aug. 3; v. 277; p. 46.
Kearney, William F. (See Peden, Hugh L., assignor.)
Keebler, Elmer, assignor to The Mechanical Manufacturing Company, Chicago, Ill. Bumping-post for freight-cars. No. 1,348,223; Aug. 3; v. 277; p. 18.
Keegan, Francis W., et al. (See Pokorny, Frank, Jr., assignor.)
Keene Mica Products Company. (See Waling, Donald, assignor.)
Keep, Harry W. (See Howard, O. D., and Keep.)
Keeran, Charles R., Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Fountain-pen. No. 1,351,574; Aug. 31; v. 277; p. 906.
Keeran, Charles R., Chicago, Ill., assignor, by mesne assignments to The Wahl Company, Wilmington, Del. Fountain-pen. No. 1,351,575; Aug. 31; v. 277; p. 906.
Keesler, Clyde C., assignor to Watson Wason Company, Canasota, N. Y. Motor-vehicle. No. 1,350,460; Aug. 24; v. 277; p. 625.
Keesling, Ernest L., San Jose, Calif. Convertible wheel. No. 1,350,813; Aug. 24; v. 277; p. 694.
Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Wing construction for flying-machines. No. 1,349,770; Aug. 17; v. 277; p. 445.
Keiter, Walter O. (See Fry, H. E., and Keiter.)
Keith, Irving L. (See Stone, John A., assignor.)
Keil, Frank A. (See Ellmann, E. C., Keil, and Zacharias.)
Keller, Charles L., Wyoming, Ohio. Rooding. No. 1,348,498; Aug. 3; v. 277; p. 71.
Keller, John G., assignor to The Vilter Manufacturing Company, Milwaukee, Wis. Plate-valve construction. No. 1,350,101; Aug. 17; v. 277; p. 508.
Keller, Joseph F., New York, assignor to Keller Mechanical Engraving Co., Brooklyn, N. Y. Die sinking, engraving, reproducing machine and the like. No. 1,351,211; Aug. 31; v. 277; p. 833.
Keller Mechanical Engraving Company. (See Keller, Joseph F., assignor.)
Keller Pneumatic Tool Company. (See Keller, William H., assignor.)
Keller, William H., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Percussion-tool. No. 1,350,505; Aug. 24; v. 277; p. 634.
Kellerman, Henry R., assignor of one-half to H. P. Fletcher, Sydney, New South Wales, Australia. Latch for doors, gates, and the like. No. 1,350,258; Aug. 17; v. 277; p. 539.
Kelley, Martin V., trustee. (See Stringham, George R., assignor.)
Kelley, William V. D., Brooklyn, and J. Mason, New York, N. Y., assignor, by mesne assignments, to Prisma Incorporated. Photographic printing. No. 1,350,023; Aug. 17; v. 277; p. 493.
Kelley, William V. D., Brooklyn, and J. Mason, New York, N. Y., assignors, by mesne assignments, to Prisma Incorporated. Photographic image. No. 1,350,024; Aug. 17; v. 277; p. 494.
Kellogg, John L., and B. Kazmann, Battle Creek, Mich., assignors to Kellogg Toasted Corn Flake Co. Food beverage and making same. No. 1,348,999; Aug. 10; v. 277; p. 220.
Kellogg, John L., and B. Kazmann, Battle Creek, Mich, assignors to Kellogg Toasted Corn Flake Co. Food beverage and making same. No. 1,349,000; Aug. 10; v. 277; p. 220.
Kellogg Toasted Corn Flakes Co. (See Kellogg, J. L., and Kazmann, assignors.)
Kelly, Charles L., Detroit, Mich. Wrench. No. 1,351,519; Aug. 31; v. 277; p. 894.
Kelly, Lawrence, St. Paul, Minn. Hay-stacking machine. No. 1,348,178; Aug. 3; v. 277; p. 9.
Kelly, Sherman L., Toledo, Ohio. Electric heating element and wiring therefor. No. 1,348,648; Aug. 3; v. 277; p. 101.
Kelso, Ralph S. (See Moffatt, J. R., and Kelso.)
Kemble, Duston, Cortland, Ohio. Electrically-propelled vehicle. No. 1,348,568; Aug. 3; v. 277; p. 85.
Kemmling, August W., Springfield, Mo. Automobile-lock. No. 1,350,316; Aug. 24; v. 277; p. 596.
Kemp, Walter D., New York, N. Y. Toy grenade. No. 1,348,224; Aug. 3; v. 277; p. 19.
Kemper, Earskin G. (See Williams, M. L., and Kemper.)
Kennedy, Dewey M., Rochester, N. Y. Signal system. No. 1,349,001; Aug. 10; v. 277; p. 220.
Kennedy, George D., Jefferson City, assignor of one-half to F. M. Strickland, Springfield, Mo. Air-heating attachment. No. 1,349,461; Aug. 10; v. 277; p. 311.
Kennedy, James F., Charleston, S. C. Basket-fastener. No. 1,351,334; Aug. 31; v. 277; p. 858.
Kennedy, James G., assignor of one-half to W. H. Brown, Chicago, Ill. Nut-blancher. No. 1,350,506; Aug. 24; v. 277; p. 634.
Kennedy, Walter C. (See Mayer, W. S., and Kennedy.)
Kenneweg, Albert H., Brooklyn, N. Y. Port-light. No. 1,350,507; Aug. 24; v. 277; p. 635.
Kenney, Charles D. (See Smith, George H., assignor.)
Kenny, Edward C., Brooklyn, N. Y. Horseshoe. No. 1,349,888; Aug. 17; v. 277; p. 468.
Kent, Arthur A. (See Richter, William H., assignor.)
Kent, William J., Brooklyn, N. Y., assignor to New York Belting & Packing Company. Method and apparatus for assembling and attaching tiling. No. 1,350,410; Aug. 24; v. 277; p. 615.
Kenyon, Louis L., Iowa City, Iowa. Coöperating means for banjo-heads. No. 1,349,067; Aug. 10; v. 277; p. 234.
Keplinger, George B., Chicago, Ill. Broom-hanger. No. 1,350,654; Aug. 24; v. 277; p. 663.
Kerlee, Charles E. (See Mulkern, Thomas A., assignor.)
Kermode, Elmer G., Cleveland, Ohio. Electric switch. No. 1,349,573; Aug. 17; v. 277; p. 407.
Kern, Edward A., *et al.* (See Decker, George W., assignor.)
Kessen, Henry, Coldwater, Ohio. Metal-bending machine. No. 1,348,806; Aug. 3; v. 277; p. 130.
Ketterer, Charles A., East St. Louis, Ill. Refrigerator. No. 1,350,655; Aug. 24; v. 277; p. 663.
Ketteringham, William K., Jr., Jackson, Miss. Fastener for trims and jambs. No. 1,348,721; Aug. 3; v. 277; p. 114.
Keyes, Joseph A., assignor to Locomotive Superheater Company, New York, N. Y. Damper. No. 1,349,068; Aug. 10; v. 277; p. 234.
Keystone Driller Company. (See Downie, Robert M., assignor.)
Keyzer, Joseph N. M., assignor to Southern Electro Steel Company, Inc., Lynchburg, Va. Lawn-mower. No. 1,351,520; Aug. 31; v. 277; p. 894.

Kidwell, Edgar, Philadelphia, Pa. Steam-boiler. No. 1,348,179; Aug. 3; v. 277; p. 9.

Kidwell, Edgar, Milwaukee, Wis. Baffle for water-tube boilers. No. 1,349,574; Aug. 17; v. 277; p. 407.

Kiewics, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,350,729; Aug. 24; v. 277; p. 675.

Kilbourne and Jacobs Manufacturing Company. (See Martin, C. C., and Cotton, assignors.)

Kibby Manufacturing Company, The. (See Terbune, Howard, assignor.)

Kilmer, Otto H., and P. Madison, Oak Harbor, Ohio. Basket-mailing machine. No. 1,349,965; Aug. 17; v. 277; p. 482.

Klitz, Frank, and L. A. Paradis, Chicago, Ill. Oxyacetylene cutting-machine for circular plates. No. 1,348,363; Aug. 3; v. 277; p. 46.

Kimbell, E. B. (See McDaniel, Guy S., assignor.)

Kimble, Martin, Highland Park, Ill. Vehicle-drive. No. 1,351,292; Aug. 31; v. 277; p. 849.

Kinman, Henry J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Throttle-valve for fluid-pressure tools. No. 1,350,102; Aug. 17; v. 277; p. 508.

Kinbach, William J., Bethlehem, Pa. Water-motor. No. 1,350,025; Aug. 17; v. 277; p. 494.

Kindle, Andrew H., Versailles, Mo. Dirigible headlight for automobiles. No. 1,348,425; Aug. 3; v. 277; p. 68.

King, Bert W., assignor to Detroit Automatic Scale Company, Detroit, Mich. Thermostatic device for scales. No. 1,348,225; Aug. 3; v. 277; p. 19.

King, Ernest J. (See Lillard, William W., assignor.)

King, Matthew L., Des Moines, Iowa. Building-block. No. 1,350,656; Aug. 24; v. 277; p. 663.

King, Percival F., Vancouver, British Columbia, Canada. Umbrella. No. 1,349,281; Aug. 10; v. 277; p. 276.

King Sewing Machine Company. (See Smallbone, Harry E., assignor.)

Kingsbury, Albert, Pittsburgh, Pa. Thrust-bearing. No. 1,349,157; Aug. 10; v. 277; p. 251.

Kingsbury, Edward J., Keene, N. H. Toy tractor. No. 1,350,026; Aug. 17; v. 277; p. 494.

Kingsbury, Edward J., New York, N. Y. Alloy for electric welding. No. 1,350,317; Aug. 24; v. 277; p. 596.

Kinnear Manufacturing Company. (See McCloud, Edward H., assignor.)

Kinsel, Arthur V., Los Angeles, Calif. Spark-plug. No. 1,349,158; Aug. 10; v. 277; p. 252.

Kipp, George E., assignor of one-fourth to R. J. Kipp, one-fourth to C. H. Winslow, and one-fourth to P. T. Winslow, Niverville, N. Y. Shut-off device for carbureters and the like. No. 1,348,226; Aug. 3; v. 277; p. 19.

Kipp, Robert J., *et al.* (See Kipp, George E., assignor.)

Kirby, Champeau Company. (See Champeau, Lawrence X., assignor.)

Kirby, William, assignor to South Metropolitan Gas Company, London, England. Purification of carbarole. No. 1,348,722; Aug. 3; v. 277; p. 114.

Kirchner, Henry W., assignor to River and Rail Transportation Company, St. Louis, Mo. Interchangeable-unit car. No. 1,349,209; Aug. 10; v. 277; p. 261.

Kirk, George W. (See Jeffries, Oscar S., Sr., assignor.)

Kirkham, Charles B., assignor to Curtiss Aeroplane and Motor Corporation, Garden City, N. Y. Lubrication of internal-combustion engines. No. 1,349,676; Aug. 17; v. 277; p. 427.

Kirkpatrick, Monroe C., Files Valley, assignor of one-fourth to T. Kirkpatrick and one-fourth to W. M. Shippey, Ellis County, Tex. Air-supply-valve attachment. No. 1,349,210; Aug. 10; v. 277; p. 262.

Kirpatrick, Orson F., South English, Iowa. Muffler cut-out. No. 1,351,173; Aug. 31; v. 277; p. 825.

Kirkpatrick, Tim, *et al.* (See Kirkpatrick, Monroe C., assignor.)

Kirschmann, Mary A., Philadelphia, Pa. Rigid hand-grip for cars. No. 1,350,657; Aug. 24; v. 277; p. 663.

Kirstein, E. Sons Company. (See Day, George H., assignor.)

Kirstin, A. J., Company. (See Gorman, John F., assignor.)

Kitsteiner, Jr., John J., Cleveland, Ohio. Scaffold. No. 1,349,426; Aug. 10; v. 277; p. 305.

Kivlan, John L., Boston, Mass. Jar-rack. No. 1,348,807; Aug. 3; v. 277; p. 130.

Kivlan, John L., Boston, Mass. Canning process. No. 1,348,808; Aug. 3; v. 277; p. 130.

Kjellgren, John G., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rheostat. No. 1,348,809; Aug. 3; v. 277; p. 130.

Klaiber, Maximilian, Brooklyn, N. Y., assignor to Auto Slyde & Moving Picture Machine Co., Inc. Stereoptican apparatus. No. 1,349,725; Aug. 17; v. 277; p. 437.

Klasing, Augustus F., assignor of one-half to F. J. Stolpe, Chicago, Ill. Brake apparatus. No. 1,348,282; Aug. 3; v. 277; p. 30.

Klatt, Herman, Pueblo, Colo. Automobile-signal. No. 1,351,662; Aug. 31; v. 277; p. 923.

Klay, Menno, Mount Hope, Ohio. Rotary internal-combustion engine. No. 1,349,512; Aug. 10; v. 277; p. 322.

Kleckler, Henry, Garden City, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Strut-fitting. No. 1,349,677; Aug. 17; v. 277; p. 427.

Klein, Josef, New York, N. Y. Brasing and welding compound and preparing same. No. 1,349,966; Aug. 17; v. 277; p. 483.

Kleinbach, H. Richard, *et al.* (See Anderson, Chester H., assignor.)

Kleine, Elisee E., Southern, Saskatchewan, Canada. Device for washing photos. No. 1,348,881; Aug. 10; v. 277; p. 197.

Kleinsmith, Frederick, Indianapolis, Ind. Automobile-door latch. No. 1,348,882; Aug. 10; v. 277; p. 107.

Kleinsmith, Frederick, Indianapolis, Ind. Spring-leaf oiler. No. 1,351,174; Aug. 31; v. 277; p. 825.

Klema, Joseph N., Austin, Minn. Lantern. No. 1,348,810; Aug. 3; v. 277; p. 130.

Kletschka, Emil V., Minneapolis, Minn. Crib. No. 1,348,426; Aug. 3; v. 277; p. 59.

Klever, Helmut, L. C. Lautenschläger, and O. H. Göhring, Karlsruhe, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing lubricating-oils. No. 1,350,814; Aug. 24; v. 277; p. 694.

Kleyensteuber, Harry M. S., Birmingham, Ala. Pipe-core machine. No. 1,349,383; Aug. 10; v. 277; p. 296.

Klimm, Frank J. (See Lyman, F. T., and Klimm.)

Kline, Robert, Cleveland, Ohio. Dish-drainer. No. 1,349,771; Aug. 17; v. 277; p. 445.

Knap, Fred H., Company, The. (See Dewey, Haywood W., assignor.)

Knapp, E. J., Candle and Wax Company. (See Knapp, Edward J., assignor.)

Knapp, Edward J., assignor to E. J. Knapp Candle and Wax Co., Inc., Syracuse, N. Y. Candle-lamp. No. 1,350,461; Aug. 24; v. 277; p. 626.)

Knemeyer, William H., San Antonio, Tex. Ice-cream freezer. No. 1,348,951; Aug. 10; v. 277; p. 211.

Knight American Patents Company. (See Knight, Charles Y., assignor.)

Knight Charles Y., Pasadena, Calif., assignor to the Knight American Patents Company, Chicago, Ill. Ignition mechanism for internal-combustion engines. No. 1,350,815; Aug. 24; v. 277; p. 694.

Knight, Paul A., Baltimore, Md. Valve-spring lifter. No. 1,348,570; Aug. 3; v. 277; p. 86.

Knights, George L., assignor to Hodge & Graves Company, Amesbury, Mass. Adjustable support. No. 1,348,569; Aug. 3; v. 277; p. 85.

Knipe, Henry H., Olney, Ill. Message-meter device. No. 1,348,490; Aug. 3; v. 277; p. 71.

Knoedler, Elmer L., assignor to Welsbach Company, Gloucester City, N. J. Pot-furnace. No. 1,349,159; Aug. 10; v. 277; p. 252.

Knudsen, Peter O. J., Copenhagen, Denmark. Locking device for motor-vehicles. No. 1,348,640; Aug. 3; v. 277; p. 101.

Koch, John R., Philadelphia, Pa. Gage. No. 1,351,663; Aug. 31; v. 277; p. 923.

Koch, Lydia B. (See Robertson, William P., assignor.)

Koch, William J., La Crosse, Wis. Shield for button-cutters' shell-tongs. No. 1,349,889; Aug. 17; v. 277; p. 468.

Kocourek, Henry, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Electric flatiron. No. 1,350,867; Aug. 24; v. 277; p. 703.

Koebel, John F., Buffalo, N. Y. Valve-lock for automobiles and the like. No. 1,348,364; Aug. 3; v. 277; p. 46.

Koedding, William, and W. J. Lemp, St. Louis, Mo. Dealcoholizing liquids. No. 1,351,521; Aug. 31; v. 277; p. 895.

Koedding, William, St. Louis, and W. J. Lemp, St. Louis county, Mo. Apparatus for treating liquids. No. 1,351,522; Aug. 31; v. 277; p. 895.

Koehl, George J., San Diego, Calif. Toy. No. 1,348,283; Aug. 3; v. 277; p. 30.

Koellhoffer, Bernard, Newark, N. J. Game. No. 1,349,615; Aug. 17; v. 277; p. 415.

Kohler, Conrad, Zurich, Switzerland. Steam-turbine-driven vehicle. No. 1,349,282; Aug. 10; v. 277; p. 277.

Kohlhaas, Otto H., Calumet, Mich. Marker for planters. No. 1,349,462; Aug. 10; v. 277; p. 311.

Kollin, Carl F., assignor of one-half to G. P. Thornblade, Marshalltown, Iowa. Watering device. No. 1,350,411; Aug. 24; v. 277; p. 615.

Kollock, George L., *et al.* (See Kollock, Samuel W. M., assignor.)

Kollock, Samuel W. M., assignor of one-fourth to G. L. Kollock and one-fourth to R. P. Martin and one-fourth to W. Baran, Seattle, Wash. Mechanical movement. No. 1,349,283; Aug. 10; v. 277; p. 277.

Kolshorn, Reynold E., Red Wing, Minn. Means for agitating bath-water. No. 1,350,974; Aug. 24; v. 277; p. 724.

Kopf, Emil A., Newark, and M. Hemleb, Elisabeth, N. J., assignors to The Singer Manufacturing Company. Electric-sewing-machine cabinet. No. 1,349,678; Aug. 17; v. 277; p. 427.

Kopf, Emil A., Newark, and M. Hemleb, Elisabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine cabinet. No. 1,349,679; Aug. 17; v. 277; p. 427.

Koppers Company, The. (See Rust, William F., assignor.)

Koppers Company, The. (See Williams, William L., Jr., assignor.)

Korff, Frederick H., Brooklyn, and S. H. Humphrey, New York, N. Y. Adjustable cutter. No. 1,349,967; Aug. 17; v. 277; p. 483.

Korkus, Maciej, Providence, R. I. Laundry-hanger. No. 1,351,335; Aug. 31; v. 277; p. 858.

Kornfeld, Charles, New York, N. Y. Manufacturing caps. No. 1,350,868; Aug. 24; v. 277; p. 703.

Kornfeld, Charles, New York, N. Y. Cap. No. 1,350,869; Aug. 24; v. 277; p. 703.

Kornsweet, Samuel A., Los Angeles, Calif. Cornucopia serving device. No. 1,349,135; Aug. 10; v. 277; p. 247.

Kors, Charles H., Poughkeepsie, N. Y. Automatically-closing receptacle. No. 1,350,816; Aug. 24; v. 277; p. 694.

Kors, Charles H., Philadelphia, Pa. Utensil-cover holder. No. 1,350,817; Aug. 24; v. 277; p. 695.

Kosinski, Stanislaw, assignor of one-half to F. A. Taberski, Schenectady, N. Y. Cue-tip. No. 1,349,069; Aug. 10; v. 277; p. 234.

Kottman, Josephine C., Brooklyn, N. Y. Grater attachment. No. 1,349,616; Aug. 17; v. 277; p. 415.

Kovach, John J., La Belle, Pa. Station-indicator. No. 1,349,160; Aug. 10; v. 277; p. 252.

Koval, Martin M., Hellwood, Pa., assignor of one-half to Frank Muller, Warren, Ohio. Station-indicator. No. 1,351,523; Aug. 31; v. 277; p. 895.

Koza, Zuzana, Akron, Ohio. Parachute. No. 1,349,513; Aug. 10; v. 277; p. 322.

Kraft, James L., Chicago, Ill. Sterilising and packaging cheese. No. 1,350,870. Aug. 24; v. 277; p. 704.

Krah, Harry. (See Hutchison, A. E., and Krah.)

Kralíček, Cyrill, Chicago, Ill. Automatic organ. No. 1,350,818; Aug. 24; v. 277; p. 695.

Kramer, Andrew A. (See Sivengood, Winfield S., assignor.)

Kramer, Andrew A., Kansas City, Mo. Can-rack. No. 1,351,253; Aug. 31; v. 277; p. 841.

Krasmauskis, Veronika, Chicago, Ill. Hair-dressing attachment. No. 1,351,427; Aug. 31; v. 277; p. 876.

Kremer, Theodore C., assignor to Lightning Coupler Link Company, Sharpsburg borough, Pa. Multiple coupling. No. 1,348,811; Aug. 3; v. 277; p. 131.

Kreplin, Charles A., Enid, Okla. Necktie-clasp. No. 1,350,612; Aug. 24; v. 277; p. 655.

Kress, Willard C., Buffalo, N. Y. Pneumatic transmission for automobiles. No. 1,349,161; Aug. 10; v. 277; p. 252.

Kries, Lawrence F., Baltimore, Md., assignor to Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa. Electric switch and fuse box. No. 1,351,043; Aug. 31; v. 277; p. 800.

Kristofek, Frank J. (See Fischer, H. L., and Kristofek.)

Krohn, Nels, Chicago, Ill., assignor to The Adams & Westlake Company. Padlock. No. 1,348,884; Aug. 10; v. 277; p. 198.

Kronheim, Jacob, Cleveland, Ohio. Davenport-bed. No. 1,349,162; Aug. 10; v. 277; p. 252.

Kronquest, Alfred L., Chicago, Ill., and J. C. Taliaferro, Baltimore, Md., assignors to Continental Can Co., Inc., Syracuse, N. Y. Can-closing machine. No. 1,348,650; Aug. 3; v. 277; p. 101.

Kruse, Ferdinand, New York, N. Y. Combined meat container and ejector. No. 1,350,160; Aug. 17; v. 277; p. 520.

Kruse, Ferdinand, New York, N. Y. Meat-presser. No. 1,350,161; Aug. 17; v. 277; p. 520.

Kruse, Ferdinand, New York, N. Y. Attachment for slicing-machines. No. 1,350,162; Aug. 17; v. 277; p. 520.

Kruth, William A., Minneapolis, Minn. Milk-bottle handle. No. 1,351,479; Aug. 31; v. 277; p. 887.

Kuhnen, Alexander F., Dixon, assignor to American Wagon Company, Chicago, Ill. Shoveling-board for wagon-bodies and the like. No. 1,348,651; Aug. 3; v. 277; p. 101.

Kuhnert, Walter A. (See Wrinkle, N., and Kuhnert.)

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,890; Aug. 17; v. 277; p. 468.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,351,428; Aug. 31; v. 277; p. 877.

Kusutani, Gikichi, Seattle, Wash. Tree-sawing machine. No. 1,349,772; Aug. 17; v. 277; p. 445.

Kutchuk, Zachary, Pittsburgh, Pa. Tire. No. 1,351,576; Aug. 31; v. 277; p. 906.

Kux, Albert S., Chicago, Ill. Compound shock-absorbing spring. No. 1,351,044; Aug. 31; v. 277; p. 801.

Kuznetzoff, Timothy A., Brooklyn, N. Y. Swimming device. No. 1,349,691; Aug. 17; v. 277; p. 468.

Kwasis, Wincent, Newark, N. J. Label-affixing apparatus. No. 1,351,107; Aug. 31; v. 277; p. 812.

Kynoch Limited. (See Stephens, Richard H., assignor.)

L. & H. Clutch Co., The. (See Lake, David, assignor.) (Reissue.)

Lacey, Fred, Lowell, assignor to Draper Corporation, Hopedale, Mass. Filling-thread controller. No. 1,350,613; Aug. 24; v. 277; p. 655.

Lachmann, Edgare S., Chicago, Ill. Metal fencepost. No. 1,349,575; Aug. 17; v. 277; p. 407.

Lacoin, Louis. (See Beurrier, A., Bigourdan, and Lacoin.)

La Cour, Carl, Dixon, Ill. Resilient tire. No. 1,349,163; Aug. 10; v. 277; p. 253.

La Cour, Jens L., assignor to Norsk Hydroelektriak, Kvaelstofaktieselskab, Christiania, Norway. Absorption of nitrous gases. No. 1,348,227; Aug. 3; v. 277; p. 19.

La Fay, Arthur J., Toronto, Ontario, Canada. Heating apparatus. No. 1,349,617; Aug. 17; v. 277; p. 415.

La Fayette Motors Company. (See Applin, John W., assignor.)

Laffoon, James F., Kansas City, Mo. Proportional distributer. No. 1,348,885; Aug. 10; v. 277; p. 198.

La France, David J., Cambridge, and W. P. De Witt, Somerville, Mass., assignors, by mesne assignments, to De Witt-La France Co. Clip for fountain-pen caps or the like. No. 1,350,412; Aug. 24; v. 277; p. 615.

La France, Richard. (See Graham, J. B., and La France.)

La France, Richard, assignor to The Owens Bottle Machine Company, Toledo, Ohio. Glass-forming machine. No. 1,348,365; Aug. 3; v. 277; p. 46.

La Ganke, Hugo C., assignor to The Osborn Crew Manufacturing Company, Cleveland, Ohio. Pulley. No. 1,349,618; Aug. 17; v. 277; p. 416.

Laird, John W., Pasadena, Calif. Dust-cap for pneumatic-tire valves. No. 1,349,463; Aug. 10; v. 277; p. 312.

Lake, David, Cleveland, Ohio, assignor to The L. & H. Clutch Co., Norristown, Pa. Clutch. (Reissue.) No. 14,933; Aug. 17; v. 277; p. 547.

Lakewood Engineering Company. (See Carr, Edward G., assignor.)

Lakin, John W., Detroit, Mich. Ball-and-socket joint. No. 1,349,002; Aug. 10; v. 277; p. 220.

Laley, Harvey M., Monessen, Pa. Tire-armor. No. 1,351,664; Aug. 31; v. 277; p. 923.

Lally Commercial Body Company. (See Rose, Robert W., assignor.)

Lambert, John H., assignor of one-half to J. W. Eldgedge, Belvidere, Ill. Stove-lid lifter. No. 1,349,211; Aug. 10; v. 277; p. 262.

La Mere, Robert S., Dresser Junction, Wis. Railway-signal. No. 1,349,773; Aug. 17; v. 277; p. 446.

Lamont, Lewis H., Chicago, Ill. Thermostatic control mechanism for hydrocarbon-engines. No. 1,350,871; Aug. 24; v. 277; p. 704.

Lamson Company, The. (See Cowley, James T., assignor.)

Lancit, Louis A, and B. U. Zarger, Newark, N. J. Dental instrument. No. 1,349,464; Aug. 10; v. 277; p. 312.

Landau, Louis V., assignor to Landau's Instantaneous Duplicator Company, Los Angeles, Calif. Copying-pad. No. 1,348,812; Aug. 3; v. 277; p. 131.

Landau's Instantaneous Duplicator Company. (See Landau, Louis V., assignor.)

Landers, Frary & Clark. (See Carlson, Frederick E., assignor.)

Landers, William M., assignor of one-third to C. E. Bair and one-third to J. W. Genung, Gracemont, Okla. Folding camp-stove. No. 1,348,427; Aug. 3; v. 277; p. 59.

Landine, Peter N., assignor to The Rostand Manufacturing Company, Milford, Conn. Hinge-lock. No. 1,348,813; Aug. 3; v. 277; p. 131.

Landry, Wallace J., Baton Rouge, La. Card-holder for garment-hangers. No. 1,348,952; Aug. 10; v. 277; p. 211.

Lane, Alfred M., assignor to Monarch Metal Products Company, St. Louis, Mo. Metal window-screen. No. 1,350,027; Aug. 17; v. 277; p. 494.

Lang, John W., Redondo Beach, Calif. Chair. No. 1,349,164; Aug. 10; v. 277; p. 253.

Langdon, Jesse D., Waterville, Wash. Fuel-vaporising system for internal-combustion engines. No. 1,350,413; Aug. 24; v. 277; p. 615.

Langdon, Jesse D., Waterville, Wash. Hydraulic air-cushion. No. 1,350,414. Aug. 24; v. 277; p. 616.

Lange, William L., New York, N. Y. Banjo. No. 1,348,652; Aug. 3; v. 277; p. 101.

Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Method of and means for obtaining constant direct currents or potentials. No. 1,349,892; Aug. 17; v. 277; p. 468.

Lanyon, A. H., trustee. (See Perkins, Richard E., assignor.)

Laroche, Emile, Montreal, Quebec, Canada. Fountain-brush. No. 1,350,415; Aug. 24; v. 277; p. 616.

Larrick, Charles, Los Angeles, Calif. Audiphone. No. 1,351,254; Aug. 31; v. 277; p. 841.

Larson, Albert, Lucan, Minn. Spoon and fork combined. No. 1,351,045; Aug. 31; v. 277; p. 801.

Larson, Albert, Minneapolis, Minn. Spoon and fork combined. No. 1,351,046; Aug. 31; v. 277; p. 801.

Larson, Leonard M., and C. J. Carlson, Tacoma, Wash. Clothes-tongs. No. 1,350,028; Aug. 17; v. 277; p. 494.

Larsson, Sven, Stockholm, Sweden. Machine applicable as pump, compressor, or motor. No. 1,348,814; Aug. 3; v. 277; p. 131.

La Rue, Willis E., assignor of one-half to William P. Hall, Indianapolis, Ind. Faucet. No. 1,351,524; Aug. 31; v. 277; p. 895.

La Société Robin, Grenier Vidy and G. Zwingelstein. (See Grenier, Fernand, assignor.)

Lastinger, Albert E., Ooltewah, Tenn. Underacorer for typewriters. No. 1,350,029; Aug. 17; v. 277; p. 495.

Latham, Charles L., Berkeley, and L. Hester, Vallejo, Calif. Hand-truck brake. No. 1,348,428; Aug. 3; v. 277; p. 59.

Latshaw, Joseph W., assignor to National Tube Company, Pittsburgh, Pa. Apparatus for dressing skelp. No. 1,349,070; Aug. 10; v. 277; p. 234.
Lauer, George L., Beatrice, Nebr. Mud-shoe. No. 1,349,514; Aug. 10; v. 277; p. 322.
Laufer, Ernest W. D. (See Weaver, A. T., Laufer, and von Wintzingerode.)
Lautenschläger, Ludwig C. (See Klever, H., Lautenschläger, and Göhring.)
Lautenschlager, William F., Cincinnati, Ohio, assignor to Lorenz Muther, Newton, Mass. Member for shoe-uppers. No. 1,351,722; Aug. 31; v. 277; p. 934.
Lave, Henry, Milwaukee, Wis. Two-wheel drive. No. 1,349,212; Aug. 10; v. 277; p. 262.
Lavigne, Joseph P., assignor to Detroit Mechanical Engineering Company, Detroit, Mich. Hose-coupling. No. 1,349,284; Aug. 10; v. 277; p. 277.
Lawrence Airplane Model and Supply Company. (See Thurnau, Arthur F., assignor.)
Lawrence, E. V., Safety Brake Company. (See Lawrence, Edward V., assignor.)
Lawrence, Edward M., Rockland, Me. Cooking apparatus. No. 1,350,030; Aug. 17; v. 277; p. 495.
Lawrence, Edward V., Englewood, N. J., assignor to E. V. Lawrence Safety Brake Company, Inc., New York, N. Y. Automobile-brake. No. 1,350,318; Aug. 24; v. 277; p. 597.
Lawrence, Franklin P., University City, Mo. Open-slot conduit. No. 1,350,658; Aug. 24; v. 277; p. 663.
Lawrence, Oscar A., San Francisco, Calif. Pressure-bar. No. 1,349,213; Aug. 10; v. 277; p. 262.
Lawson, Joel S. (See Maxwell, M. P., and Lawson.)
Lay, William P., Gadsden, Ala. Marine vessel. No. 1,350,250; Aug. 17; v. 277; p. 539.
Laserson, Abraham, assignor to Solar Illuminating Co., Chicago, Ill. Lighting-fixture. No. 1,351,255; Aug. 31; v. 277; p. 841.
Lea, Frederick M., Birmingham, England. Heating-stove burning gas or the like. No. 1,351,525; Aug. 31; v. 277; p. 896.
Lear, Archie J., Bago, Kans. Pedal-holder. No. 1,350,228; Aug. 17; v. 277; p. 533.
Leathers, Ward G., Haworth, N. J., assignor to Submarine Arms Corporation, New York, N. Y. Power generation. No. 1,349,969; Aug. 17; v. 277; p. 483.
Leavitt, William C., Norway, Me. Handle for metallic vessels. No. 1,350,659; Aug. 24; v. 277. p. 664.
Leavitt, William H., Wichita Falls, Tex. Binding attachment for baling-presses. No. 1,348,180; Aug. 3; v. 277; p. 9.
Le Clair, Frank J., Attleboro, assignor to Freeman-Daughaday Co., Chartley, Mass. Collar-holder. No. 1,349,071; Aug. 10; v. 277; p. 234.
Lederer, Sigmund L., and G. U. Meyer, assignors to Providence Stock Company, Providence, R. I. Connector for band-bracelets. No. 1,350,508; Aug. 24; v. 277; p. 635.
Ledwinka, Joseph, assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Means for vulcanizing rubber tires. No. 1,348,228; Aug. 3; v. 277; p. 19.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Duplex rotary electric welding-machine. No. 1,351,717; Aug. 31; v. 277; p. 933.
Lee, Albert P., assignor to Lee Loader & Body Company, Chicago, Ill. Rail construction for rolling hoppers. No. 1,349,838; Aug. 17; v. 277; p. 458.
Lee, Charles O., Modesto, Calif. Irrigation-tile. No. 1,350,229; Aug. 17; v. 277; p. 533.
Lee, Earle P., assignor to North East Electric Company, Rochester, N. Y. Commutator. No. 1,349,003; Aug. 10; v. 277; p. 221.
Lee, Fred S., Vanlue, Ohio. Crank-shaft for internal-combustion engines. No. 1,349,893; Aug. 17; v. 277; p. 468.
Lee Loader & Body Company. (See Lee, Albert P., assignor.)
Leech, Henry E., Live Oak, Fla. Strainer. No. 1,351,293; Aug. 31; v. 277; p. 849.
Lees, Edgar, and H. W. Ridsdale, assignors to The Whitehead Torpedo Works (Weymouth) Limited, Weymouth, England. Automobile-torpedo. No. 1,351,526; Aug. 31; v. 277; p. 896.
Lehman, Joseph H., New York, N. Y. Shutter for moving-picture machines. No. 1,349,214; Aug. 10; v. 277; p. 262.
Lehman, Joseph H., New York, N. Y. Shutter for moving-picture machines. No. 1,349,215; Aug. 10; v. 277; p. 262.
Lehmann, Gotthilf, New York, N. Y. Toy. No. 1,350,103; Aug. 17; v. 277; p. 509.
Lehnhoff, Rudolph, Burnham, Ill. Wrench. No. 1,348,366; Aug. 3; v. 277; p. 47.
Lehr, Frank J., assignor to Stecher Lithographic Company, Rochester, N. Y. Printing-press. No. 1,351,175; Aug. 31; v. 277; p. 825.
Leich Electric Company. (See Leich, Oscar M., assignor.)
Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Spark-plug. No. 1,348,886; Aug. 10; v. 277; p. 198.
Leigh, Edna F. (See Leigh, Richard A., assignor.)
Leigh, Richard A., assignor to Edna F. Leigh, Denver, Colo. Pneumatic or compressed-air cushion bed. No. 1,351,480; Aug. 31; v. 277; p. 887.
Leitch, Meredith, Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Cleaning gasolene. No. 1,351,047; Aug. 31; v. 277; p. 801.
Lembas, George. (See Ormaniec, J., and Lembas.)
Leming, Frank, Hingham, Mass. Machine for reforming ammunition-shell-casings. No. 1,351,389; Aug. 31; v. 277; p. 869.
Lemp, William J. (See Koedding, W., and Lemp.)
Lempges, Theodore G., Dunkirk, N. Y. Signal device. No. 1,349,774; Aug. 17; v. 277; p. 446.
Lenchard, Walter, McKeesport, Pa. Toy doll. No. 1,350,660; Aug. 24; v. 277; p. 664.
Lenerville, Clifford H., Peshtigo, Wis. Automatic phonograph-stop. No. 1,349,970; Aug. 17; v. 277; p. 483.
Lennox, Andrew. (See Irvin, K., and Lennox.)
Leonard, Chester S. (See Moore, G. R., and Leonard.)
Leonhardy, Mark, Buena Vista, Colo. Acetylene-gas lamp. No. 1,350,819; Aug. 24; v. 277; p. 695.
Lester, William H., New York, N. Y. Go-cart suitcase. No. 1,348,723; Aug. 3; v. 277; p. 114.
Levensaler, James A. (See Makowski, John F., assignor.)
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Button-attaching machine. No. 1,348,229; Aug. 3; v. 277; p. 20.
Levin, Jacob, Springfield, Mass. Machine for extracting juice from fruit. No. 1,349,839; Aug. 17; v. 277; p. 458.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric motor. No. 1,351,294; Aug. 31; v. 277; p. 850.
Leviston, Walla, and J. Perry, Kansas City, Mo. Spring-wheel. No. 1,350,370; Aug. 24; v. 277; p. 607.
Levy, Isidor, New York, N. Y. Tambourine. No. 1,350,975; Aug. 24; v. 277; p. 724.
Lewis, Arthur J., Stratford, assignor to The Baird Machine Company, Bridgeport, Conn. Mechanism for forming and assembling snap-fastener springs. No. 1,351,429; Aug. 31; v. 277; p. 877.
Lewis, Elwood A. (See Borders, H. L., and Lewis.)
Lewis, Frank M., Pimlico, London, England. Tripod and like support. No. 1,351,390; Aug. 31; v. 277; p. 869.
Lewis, Frederick W., assignor to Chapin & Hollister Co., Providence, R. I. Belt-buckle. No. 1,350,076; Aug. 17; v. 277; p. 504.
Lewis, Julian C., St. Louis, Mo. Rotary drill. No. 1,348,815; Aug. 3; v. 277; p. 131.
Lewis, Ralph A., Grangeville, Idaho. Rocking-chair. No. 1,348,420; Aug. 3; v. 277; p. 59.
Ley, George A., Chicago, Ill. Flash-light bag. No. 1,350,730; Aug. 24, v. 277; p. 678.
Liberty Auto Lock Co. (See Saegesser, Albert W., assignor.)
Liberty Ignition Company. (See Rich, James E., assignor.)
Lichtenstein, Solomon K., New York, N. Y. Cotton-gin. No. 1,350,661; Aug. 24; v. 277; p. 664.
Liess, Edward T., Huntington, N. Y. Valve-extractor. No. 1,350,163; Aug. 17; v. 277; p. 520.
Lightell, William. (See Stobs, T., and Lightell.)
Lightning Coupler Link Company. (See Kremer, Theodore C., assignor.)
Likterink, Johannes H., Utrecht, Netherlands. Manufacture of floor-coverings as a substitute for linoleum. No. 1,348,571; Aug. 3; v. 277; p. 86.
Lilienfeld, Leon, Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Alkyl ether of starches and similar carbohydrates and producing same. No. 1,350,820; Aug. 24; v. 277; p. 695.
Liljeberg, Anton W., Minneapolis, Minn. Welt-forming device. No. 1,350,731; Aug. 24; v. 277; p. 678.
Lilliard, William W., Irvington, assignor of one-half to E. J. King, Jersey City, N. J. Heating means. No. 1,349,136; Aug. 10; v. 277; p. 247.
Lillos, Charles G., Minneapolis, Minn. Air-pump. No. 1,351,176; Aug. 31; v. 277; p. 825.
Limle, Edward B., Cincinnati, Ohio, assignor, by mesne assignments, to United-Xpedite Finishing Company, Berwick, Me. Finishing device. No. 1,351,177; Aug. 31; v. 277; p. 826.
Limoncello, Joseph, Chicago, Ill. Drum. No. 1,349,840; Aug. 17; v. 277; p. 458.
Limpert, Alexander S., Pittsburgh, Pa., assignor to Golden Glow Sign Corporation, New York, N. Y. Illuminated sign. No. 1,348,816; Aug. 3; v. 277; p. 131.
Linard, Raymond, Ougrée, Belgium. Mill-train for the manufacture of small and medium iron bars. No. 1,348,230; Aug. 3; v. 277; p. 20.
Linden, Charles J., Iron Mountain, Mich. Metal road-track. No. 1,350,872; Aug. 24; v. 277; p. 704.
Lindsay Light Company. (See Ryan, Lonnie W., assignor.)
Lindsay, William S., Newport, Vt. Fuel and air supplying apparatus. No. 1,349,465; Aug. 10; v. 277; p. 312.
Lines, Fannette O., Mount Pleasant, Iowa. Headrest. No. 1,349,072; Aug. 10; v. 277; p. 34.
Link, Anton, Chicago, Ill. Mop. No. 1,349,680; Aug. 17; v. 277; p. 428.
Linotype and Machinery Limited. (See George, C. L., and Hart, assignors.)
Lipcsey, Frank L. (See MacKillican, J. A., and Lipcsey.)
Lipps, Morris, New York, N. Y. Headrest. No. 1,349,073; Aug. 10; v. 277; p. 235.
Lipshutz, Joseph, *et al.* (See Brown, Albert, assignor.)

Lister, Charles H., North St. Paul, Minn. Gravity carrier. No. 1,348,500; Aug. 3; v. 277; p. 72.
Lister, Charles H., North St. Paul, Minn. Bearing for conveyer-roller. No. 1,351,481; Aug. 31; v. 277; p. 887.
Lister, John T. (See Fording, William G., assignor.)
Litchfield, Charles T., assignor to W. B. Gerard and G. C. Jackman, Spokane, Wash. Synchronizing and regulating mechanism for combination steam and explosion engines. No. 1,349,619; Aug. 17; v. 277; p. 416.
Litke, John. (See Foster, U. D., and Litke.)
Little, Arthur D., Incorporated. (See Swett, Charles E., assignor.)
Littlejohn, Thomas F., Plano, Tex. Dental impression-tray. No. 1,351,108; Aug. 31; v. 277; p. 812.
Litsinger, Lewis P., P. F. Conerty, Butler, and W. Snodgrass, Bruin, Pa. Aerial condenser. No. 1,349,681; Aug. 17; v. 277; p. 428.
Lively, Benjamin F., Lenoir City, Tenn., assignor of one-half to R. C. Dudley, Chicago, Ill. Car-roof. No. 1,351,256; Aug. 31; v. 277; p. 842.
Livengood, Winfield S., assignor to A. A. Kramer, Kansas City, Mo. Valve. No. 1,351,109; Aug. 31; v. 277; p. 812.
Livingston, D. McRa, *et al.* (See Pokorny, Frank, Jr., assignor.)
Livingston, S. W. (See Gold, Samuel B., assignor.)
Lloyd, Harry S. (See Bullock, S. M., and Lloyd.)
Lloyd, Richard L., Minneapolis, Minn. Game. No. 1,348,817; Aug. 3; v. 277; p. 132.
Lockwood, Burns D., Bellevue, and G. A. Suckfield, Avalon, assignors to Pressed Steel Car Company, Pittsburgh, Pa. Car-coupling. No. 1,348,501; Aug. 3; v. 277; p. 72.
Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Die. No. 1,351,048; Aug. 31; v. 277; p. 801.
Lockwood, Ralph G., *et al.* (See Boswell, George G. F., assignor.)
Lockwood, Virgil H., *et al.* (See Boswell, George G. F., assignor.)
Locomobile Company, The. (See Roos, Delmar G., assignor.)
Locomobile Company, The. (See Rosner, Adolph, assignor.)
Locomotive Superheater Company. (See Broido, Benjamin, assignor.)
Locomotive Superheater Company. (See Hilferty, Charles D., assignor.)
Locomotive Superheater Company. (See Keyes, Joseph A., assignor.)
Loe, Syver, Minneapolis, Minn. Transmission mechanism. No. 1,349,074; Aug. 10; v. 277; p. 235.
Loetscher, Alvin A., assignor of one-half to G. Georgilas, Billings, Mont. Automatic fuel-mixture regulator. No. 1,350,976; Aug. 24; v. 277; p. 724.
Lofgren, Einar G. C., Minneapolis, Minn. Teletypewriter or printing-telegraph. No. 1,348,430; Aug. 3; v. 277; p. 59.
Logan Trust Company *et al.*, executors. (See Hirst, Charles S.)
Logarzo, Emilio, Buenos Aires, Argentina. Maize or Indian-corn harvesting machine. No. 1,351,665; Aug. 31; v. 277; p. 923.
Leichot, Paul F., Louisville, Ohio. Meat-grinder. No. 1,350,164; Aug. 17; v. 277; p. 520.
Lombard, Levi W., Mattapan, assignor of eleven-twentieths to W. S. Bartlett, Brookline, Mass. Injector for internal-combustion engines. No. 1,349,515; Aug. 10; v. 277; p. 322.
Lombard, Rose, Cornelia, Ga. Dish drier and holder. No. 1,351,577; Aug. 31; v. 277; p. 906.
Lombardo, Carl, assignor of one-third to J. Familet, Dunkirk, N. Y. Amusement device. No. 1,350,873; Aug. 24; v. 277; p. 704.
Long, Albert R., Ballston, Va. Two-cycle rotary-cylinder internal-combustion engine. No. 1,350,260; Aug. 17; v. 277; p. 539.
Long, James F., San Francisco, Calif. Folding camping device. No. 1,351,178; Aug. 31; v. 277; p. 826.
Longworth, Otis L., assignor of one-half to A. L. McCormick, Detroit, Mich. Spark-plug. No. 1,350,319. Aug. 24; v. 277; p. 597.
Loomis, Crawford C., Ilion, assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Slide-bushing for pistols. No. 1,348,284; Aug. 3; v. 277; p. 31.
Loose, Johannes, assignor to Fortuna-Werke, Specialmaschinenfabrik, G. m. b. H., Cannstatt-Stuttgart, Germany. Machine-tool. No. 1,348,502; Aug. 3; v. 277; p. 72.
López, Ambrosio V., Marianao, Cuba. Leaf-turner. No. 1,351,110; Aug. 31; v. 277; p. 812.
Lopes, Bruno, San Antonio, Tex. Roller-distributer. No. 1,349,726; Aug. 17; v. 277; p. 437.
Lopez, German M., and A. Quaglia, Buenos Aires, Argentina. Mordant or dye and making same. No. 1,348,431; Aug. 3; v. 277; p. 59.
Lorange, Einar, Luverne, Minn. Bag and twine holder. No. 1,350,874; Aug. 24; v. 277; p. 704.
Lord, James H., Methuen, Mass. Roof attachment. No. 1,349,894; Aug. 17; v. 277; p. 469.
Lord, Joseph S. and S. S., Manchester, England. Machine for dyeing, washing, scouring, sizing, bleaching, and mercerizing yarn in hank form. No. 1,348,724; Aug. 3; v. 277; p. 114.
Lord, Sam S. (See Lord, Joseph S. and S. S.)
Lorents, Hermann G., assignor to The J. & E. Stevens Company, Cromwell, Conn. Toy firearm. No. 1,348,285; Aug. 3; v. 277; p. 31.
Lorillard, P., Company. (See Harris, James B., assignor.)
Loriot, Alfred J., Newark, N. J. Galley. No. 1,351,295; Aug. 31; v. 277; p. 850.
Lorton, Pierre M., Paris, France. Construction of vessels of reinforced concrete. No. 1,349,075; Aug. 10; v. 277; p. 235.
López, David C., Chicago, Ill. Draftman's protractor. No. 1,351,527; Aug. 31; v. 277; p. 896.
Louden Machinery Company, The. (See Neller, Albert H., assignor.)
Loudon, Warren P., Niagara Falls, N. Y., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Valve-operating mechanism. No. 1,350,077; Aug. 17; v. 277; p. 504.
Loughery, Joseph F., Philadelphia, Pa. Multicolor-printing machine. No. 1,349,895; Aug. 17; v. 277; p. 469.
Louque, Carmelite. (See Louque, George A., assignor.)
Louque, George A., assignor to C. Louque, New Orleans, La. Artificial tooth. No. 1,351,578; Aug. 31; v. 277; p. 906.
Love, Samuel H., assignor of one-third to H. Meacham, Sanford, Fla. Emergency-tank for automobiles. No. 1,351,336; Aug. 31; v. 277; p. 858.
Lovekin, Luther D., Philadelphia, Pa. Feed-water heater. No. 1,350,320; Aug. 24; v. 277; p. 597.
Lowe, Harry W., assignor, by mesne assignments, to Sprague Canning Machinery Co., Omaha, Nebr. Exhauster. No. 1,350,104; Aug. 17; v. 277; p. 509.
Loy, Thomas H., Terre Haute, Ind. Brake mechanism for talking-machines. No. 1,349,216; Aug. 10; v. 277; p. 263.
Luboshey, Nahum E., Harrow, England. Multiple-image photography. No. 1,351,430; Aug. 31; v. 277; p. 877.
Luchetti, Amedeo, Monero, N. Mex. Railway-track. No. 1,348,286; Aug. 3; v. 277; p. 31.
Luck, Emil, Clara City, Minn. Nut-lock. No. 1,350,165; Aug. 17; v. 277; p. 521.
Luedke, August J., assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Trough and producing same. No. 1,349,841; Aug. 17; v. 277; p. 458.
Luery, Michael, and B. S. Nelson; said Nelson assignor to Model Form Company, Chicago, Ill. Dress-form. No. 1,351,179; Aug. 31; v. 277; p. 826.
Luery, Michael, and B. S. Nelson; said Nelson assignor to Model Form Company, Chicago, Ill. Dress-form. No. 1,351,180; Aug. 31; v. 277; p. 826.
Lugt, Gerard J., Amsterdam, Netherlands. Device for supplying cooling liquids to pistons of internal-combustion engines. No. 1,349,516; Aug. 10; v. 277; p. 322.
Lukassewski, John, Chicago, Ill. Fountain-brush. No. 1,349,517; Aug. 10; v. 277; p. 323.
Luke, James A., Cleveland, Ohio. Vehicle-spring. No. 1,351,111; Aug. 31; v. 277; p. 813.
Lukens, Alan R., Jr., Wyoming, Ohio. Shingle. No. 1,348,503; Aug. 3; v. 277; p. 72.
Lund, Gustav A., Stillwater, Minn. Padlock. No. 1,349,682; Aug. 17; v. 277; p. 428.
Lund, John M., and H. Anderson, Battleview, N. D. Dust-pan. No. 1,349,165; Aug. 10; v. 277; p. 253.
Lundie, John, New York, N. Y. Rail-anchor. No. 1,350,321; Aug. 24; v. 277; p. 597.
Lundy, Lundy S., Niagara Falls, Ontario, Canada, assignor to A. van den Boom and J. W. Slate, Walnut Cove, N. C. Collapsible box. No. 1,348,725; Aug. 3; v. 277; p. 115.
Lunenfeld, Isidor, Brantford, Ontario, Canada. Ash-sifter. No. 1,351,296; Aug. 31; v. 277; p. 850.
Lyle, Henry C., Beaumont, Tex. Tool-joint. No. 1,349,518; Aug. 10; v. 277; p. 323.
Lyman, Frank T., and F. J. Klimm, San Francisco, Calif. Drinking-fountain. No. 1,349,775; Aug. 17; v. 277; p. 446.
Lyman, Kent E., Cleveland, Ohio. Bearing-lubricating device. No. 1,349,076; Aug. 10; v. 277; p. 235.
Lynah, James, Newburgh, N. Y., assignor to du Pont Fabrikoid Company, Wilmington, Del. Producing artificial leather and product thereof. No. 1,350,281; Aug. 17; v. 277; p. 543.
Lynch, John. (See Grigsby, Arle, assignor.)
Lynch, John J., Wason Flats, Mont. Concrete mixer and conveyer. No. 1,349,285; Aug. 10; v. 277; p. 277.
Lyon, Frank A., Milford, N. Y. Draft-equalizer. No. 1,350,821; Aug. 24; v. 277; p. 695.
Lyon, Fred C., Fayette, Ohio. Phonograph-horn. No. 1,349,286; Aug. 10; v. 277; p. 277.
Lyon, Fred M., Pontiac, Ill. Corn-grinder. No. 1,350,261; Aug. 17; v. 277; p. 539.
Lyon, George A., Philadelphia, Pa. Retainer-attacher for vehicle-buffers. No. 1,351,049; Aug. 31; v. 277; p. 801.
Lyon, George A., Philadelphia, Pa. Looped-attacher automobile-buffer. No. 1,351,050; Aug. 31; v. 277; p. 802.
Lyons, Arthur R., Carroll, Iowa. Reversing propeller. No. 1,348,432; Aug. 3; v. 277; p. 60.
McAllan, James, Toronto, Ontario, Canada. Bedstead. No. 1,349,287; Aug. 10; v. 277; p. 277.
McArthur, Herbert A., Montreal, Quebec, Canada. Milking-machine. No. 1,351,337; Aug. 31; v. 277; p. 859.
McArthur, John O., Council Bluffs, Iowa. Crosshead. No. 1,348,287; Aug. 3; v. 277; p. 31.

McBride, Thomas C., Philadelphia, Pa., assignor to Worthington Pump and Machinery Corporation. Feed-water-heating apparatus. No. 1,350,822; Aug. 24; v. 277; p. 597.
McCain, Samuel H., Jr., San Francisco, Calif. Nut-lock. No. 1,350,230; Aug. 17; v. 277; p. 533.
McCann, Charles A., Springfield, Ill. Gate. No. 1,350,323; Aug. 24; v. 277; p. 597.
McCann, George M. (See Stambaugh, H. J., and McCann.)
McCart, Robert, Jr., El Paso, Tex. Record-filing cabinet. No. 1,349,466; Aug. 10; v. 277; p. 312.
McCarthy, John H., Lyons, assignor to E. J. Doyle, Rochester, N. Y. Combined sleigh and wheel coaster. No. 1,350,929; Aug. 24; v. 277; p. 715.
McCaulley, Charles G., Washington, D. C., assignor to The Rail Joint Company, New York, N. Y. Insulated and armored rail-joint. No. 1,351,666; Aug. 31; v. 277; p. 924.
McChesney, Presley B., Princeton, Ky. Propelling means for motors. No. 1,349,077; Aug. 10; v. 277; p. 285.
McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Fire-resisting door. No. 1,349,519; Aug. 10; v. 277; p. 323.
McCloud, Michael J., New York, N. Y. Siphonic flushing apparatus. No. 1,349,683; Aug. 17; v. 277; p. 428.
McColm, John D. (See Harwood, John, assignor.)
McCormick, A. L. (See Longworth, Otis L., assignor.)
McCormick, Langdon, New York, N. Y. Theatrical appliance. No. 1,350,614; Aug. 24; v. 277; p. 656.
McCourt, Cyril D. (See Bone, W. A., Wilson, and McCourt.)
McCracken, Edgar, Albia, Iowa. Automobile-lock. No. 1,351,297; Aug. 31; v. 277; p. 850.
McCready, Charles T., Onley, Va. Vine turner and lifter. No. 1,349,896; Aug. 17; v. 277; p. 469.
McCullar, W. A., and J. J. Ayraud, Beaumont, Tex. Pipe-coupling. No. 1,350,078; Aug. 17; v. 277; p. 504.
McCulloch, Leon, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. Making sound brass castings. No. 1,351,051; Aug. 31; v. 277; p. 802.
McCurdy, Arthur W., Victoria, British Columbia, Canada. Sheet-uniting device. No. 1,350,371; Aug. 24; v. 277; p. 607.
McDaniel, Guy S., Smyrna, assignor of one-half to E. H. Kimbell, Atlanta, Ga. Treating fibrous vegetable material and resulting product. No. 1,350,031; Aug. 17; v. 277; p. 495.
McDonah, John H., Boston, Mass. Life-float. No. 1,349,897; Aug. 17; v. 277; p. 469.
McDonald, A. Y., M'f'g. Co. (See McDonald, John M., assignor.)
McDonald, George R., Berkeley, Calif. Oil-pump trunk. No. 1,348,504; Aug. 3; v. 277; p. 72.
McDonald, James D., Hayden, Ariz. Sand and slime separator. No. 1,350,509; Aug. 24; v. 277; p. 635.
McDonald, John M., assignor to A. Y. McDonald M'f'g. Co., Dubuque, Iowa. Valve-lock. No. 1,349,139; Aug. 10; v. 277; p. 247.
McDonald, John U., Decatur, Ill. Furnace. No. 1,349,971; Aug. 17; v. 277; p. 483.
McDonnell, George F., Charleston, and J. J. Dandoy, Dunbar, W. Va. Glass vessel. No. 1,348,231; Aug. 3; v. 277; p. 20.
McEldowney, Harriet, Windsor, Ontario, Canada. Child's apparel-supporter. No. 1,351,579; Aug. 31; v. 277; p. 907.
McFarland, William L., Fairfield, Ill. Rotary motorr. No. 1,350,231; Aug. 17; v. 277; p. 533.
McGahey, Robert E., Alexandria, Va. Self-locking angle-cock. No. 1,351,391; Aug. 31; v. 277; p. 869.
McGhee, Jesse M., Estancia, N. Mex. Convertible table-bed. No. 1,348,572; Aug. 3; v. 277; p. 86.
McGill, James K., Belledeau, La. Railway-tie. No. 1,350,416; Aug. 24; v. 277; p. 616.
McGinniss, William J., Washington, D. C. Expander for piston-rings. No. 1,348,953; Aug. 10; v. 277; p. 211.
McGowan, Edward J. (See Ewing, J. A., and McGowan.)
McGrath, Lawrence A., Winthrop, assignor of four-sixteenths to M. F. Cunningham, Randolph, and two-sixteenths to W. H. Dennehy, Brockton, Mass. Tag-stringing machine. No. 1,351,000; Aug. 24; v. 277; p. 729.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,348,288; Aug. 3; v. 277; p. 31.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,348,289; Aug. 3; v. 277; p. 32.
McIntire, Hervey H., South Bend, Ind. Platen. No. 1,349,384; Aug. 10; v. 277; p. 296.
McIntosh, George. (See White, T. E., and McIntosh.)
McIntosh, James A., assignor, by mesne assignments, to Standard Tool & Manufacturing Company, Detroit, Mich. Channel-tubing. No. 1,349,684; Aug. 17; v. 277; p. 429.
McIntyre, Michael M., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-spring. No. 1,348,726; Aug. 3; v. 277; p. 115.
McKay, William F., La Grange, Ill. Making prepared roofing. No. 1,351,181; Aug. 31; v. 277; p. 826.
McKeag, John, Hamlin, Alberta, Canada. Weeding-harrow. No. 1,348,887; Aug. 10; v. 277; p. 198.
McKenney, Galen, Bangor, Me. Adjustable handsaw. No. 1,349,427; Aug. 10; v. 277; p. 305.
McKenzie, Gregg. (See Carroll, Andrew L., assignor.)
McKenzie, Luke C., Clinton, N. C. Cattle-grazing post. No. 1,350,732; Aug. 24; v. 277; p. 678.
McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Oil-can holder. No. 1,349,842; Aug. 17; v. 277; p. 458.
McKinley, James R., Seattle, Wash. Bolt. No. 1,348,727; Aug. 3; v. 277; p. 115.
McLaren-Sleight Corporation. (See McLaren, William E., assignor.)
McLaren, William E., Chicago, Ill., assignor, by mesne assignments, to McLaren-Sleight Corporation, St. Joseph, Mich. Convertible toy battleship and tank-car. No. 1,350,417; Aug. 24; v. 277; p. 616.
McLaughlin, E. J., *et al.* (See Rial, L., and Hebern, assignors.)
McLean, Harry L. (See Elmore, Guy H.)
McManis, John V., Kirksville, Mo. Treatment-table. No. 1,351,482; Aug. 31; v. 277; p. 887.
McMillan, Angus, San Francisco, Calif. Band-saw-filing machine. No. 1,349,685; Aug. 17; v. 277; p. 429.
McMillan, Orville G., Alpena, S. D. Engine. No. 1,349,520; Aug. 10; v. 277; p. 323.
McNitt, Archibald, Benton Harbor, Mich. Change-speed gear. No. 1,350,822; Aug. 24; v. 277; p. 696.
McQuay-Norris Manufacturing Company. (See Beecher, Edward, assignor.)
McQuillen, John H., Philadelphia, Pa. Train-controlling means. No. 1,351,182; Aug. 31; v. 277; p. 827.
McWilliams, Joseph L., San Francisco, Calif. Automobile-signal. No. 1,351,667; Aug. 31; v. 277; p. 924.
Maag, Max, Zurich, and R. Frey, Höngg, near Zurich, Switzerland. Machine for generating bevel-gears. No. 1,351,580; Aug. 31; v. 277; p. 907.
Maass, Otto, Montreal, Quebec, Canada. Automatic valve. No. 1,348,505; Aug. 3; v. 277; p. 73.
Macaulay, Douglas L. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)
MacCallum, Dorothy L., Cambridge, Mass. Waterproof garment. No. 1,348,818; Aug. 3; v. 277; p. 132.
Macbeth, Colin, Birmingham, assignor to The Dunlop Rubber Company, Limited, Westminster, London, England. Vehicle-wheel. No. 1,351,052; Aug. 31; v. 277; p. 802.
MacDonald, Frank J., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Rack. No. 1,350,662; Aug. 24; v. 277; p. 664.
MacDowell, Glenn J., assignor to Burke & James, Inc., Chicago, Ill. Photographic-plate rack. No. 1,349,972; Aug. 17; v. 277; p. 484.
Mace, Thomas W. (See Beeson, Byron P., assignor.)
MacGregor, James, Glasgow, Scotland, assignor to Herbert Austin, Fall River, Mass. Extracting oleaginous substances from oleaginous-substance-containing materials. No. 1,351,483; Aug. 31; v. 277; p. 887.
Mack, Patrick H., Bradford, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. No. 1,350,553; Aug. 24; v. 277; p. 643.
MacKillican, James A., and F. L. Lipsey, Hibbing, Minn. Excavating-machine. No. 1,351,212; Aug. 31; v. 277; p. 833.
Mackin, Frank A., Middleport, Ohio. Attachment for oil-boxes. No. 1,348,433; Aug. 3; v. 277; p. 60.
Mackintosh, Alexander L., Denver, Colo., assignor of one-half to D. R. Riddick, Rawlins, Wyo. Educational toy. No. 1,349,776; Aug. 17; v. 277; p. 446.
Macklem, John J., Goshen, Ind. Sectional scaffold. No. 1,351,053; Aug. 31; v. 277; p. 802.
Macmillan, Colin H., Anniesland, Glasgow, Scotland. Reversing-gear. No. 1,350,324; Aug. 24; v. 277; p. 598.
Macomber, Herbert H., assignor to Flint & Walling Mfg. Co., Kendallville, Ind. Pressure-regulator. No. 1,349,843; Aug. 17; v. 277; p. 459.
MacPherson, Warren, Cambridge, Mass. Rubber shoe-bottom. No. 1,350,930; Aug. 24; v. 277; p. 715.
Macropoulos, Constantine D., New York, N. Y. Tire. No. 1,348,954; Aug. 10; v. 277; p. 211.
Madden, Harry D., assignor to Westinghouse Lamp Company, Irvington, N. J. Manufacture of incandescent electric lamps. No. 1,349,686; Aug. 17; v. 277; p. 429.
Maddox, Robert A., Los Angeles, Calif. Sewer-flushing mechanism. No. 1,349,078; Aug. 10; v. 277; p. 285.
Madill, David, Salt Lake City, Utah. Coupling-link. No. 1,351,298; Aug. 31; v. 277; p. 850.
Madison, Peter. (See Klimer, O. H., and Madison.)
Mae, Anton, New Haven, Conn. Parallel-jaw pliers. No. 1,351,668; Aug. 31; v. 277; p. 924.
Magee, Charles L., Washington, D. C. Lubricating attachment for internal-combustion engines. No. 1,351,338; Aug. 31; v. 277; p. 859.
Magnan, August, Great Falls, Mont. Wrench. No. 1,348,832; Aug. 3; v. 277; p. 134.
Magnuson, Andrew E., New York, N. Y. Drafting-instrument. No. 1,349,750; Aug. 10; v. 277; p. 320.
Maher & Kassler. (See Frankfurt, Sophie, assignor.)
Mahoney, Dennis J., Brooklyn, N. Y. Window-guard. No. 1,349,521. Aug. 10; v. 277; p. 324.
Mainwaring, Albert E. (See Thomas, W., and Mainwaring.)
Maise, Herman C., Detroit, Mich., assignor, by mesne assignments, to E. G. Budd Manufacturing Company, Antirattler. No. 1,348,232; Aug. 3; v. 277; p. 20.
Makowski, John F., assignor of one-half to J. A. Levensaler, San Francisco, Calif. Machine for fabricating plaster board. No. 1,349,777; Aug. 17; v. 277; p. 446.

Makowski, John F., assignor of one-half to J. A. Levensaler, San Francisco, Calif. Wall-board and manufacturing same. No. 1,349,778; Aug. 17; v. 277; p. 447.
Malacos, Peter, and S. Canellos, Connellsville, Pa. Paper-hanging device. No. 1,348,290; Aug. 3; v. 277; p. 52.
Malcolm, James, Holyoke, Mass. Transmission-lock for automobiles. No. 1,351,001; Aug. 24; v. 277; p. 729.
Maloney, Michael D., Hadlock, Wash. Match-box. No. 1,350,977; Aug. 24; v. 277; p. 724.
Mancuso, Benjamin, Batavia, N. Y. Pipe-sleeve. No. 1,350,615; Aug. 24; v. 277; p. 656.
Manheimer, Louis B., assignor, by mesne assignments, of one-third to L. B. Manheimer, one-third to F. Newbold, and one-third to F. T. Fuller, Washington, D. C. Relief-map and making same. No. 1,351,392; Aug. 31; v. 277; p. 870.
Manion, William M. (See Stryhal, Joseph M., assignor.)
Manley, Charles J., Kingston, Wash. Hair-cutting and neck-shaving device. No. 1,349,004; Aug. 10; v. 277; p. 221.
Mannhardt, Daniel W., Washington, Iowa. Valve-cap. No. 1,349,522; Aug. 10; v. 277; p. 324.
Manning, Roland B., and L. R. Moore, Dallas, Tex. Steam-generator. No. 1,350,554; Aug. 24; v. 277; p. 643.
Manon, Clyde L., Fitzgerald, Ga. Combination-lock. No. 1,351,484; Aug. 31; v. 277; p. 887.
Mansfield, Charles E., Crescent City, Calif. Artificial bait. No. 1,351,669; Aug. 31; v. 277; p. 924.
Manternach, John C., and C. W. Gressle, assignors, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Wheel with demountable rim. No. 1,351,183; Aug. 31; v. 277; p. 827.
Mantle Lamp Company of America, The. (See Spangler, Frederick W., assignor.)
Maples, Lawrence, Chicago, Ill. Washing-machine. No. 1,350,823; Aug. 24; v. 277; p. 696.
Mapson, Robert L., assignor of one-third to L. Sperbeck and one-third to E. I. Wheeler, Los Angeles, Calif. Combined spare-tire support and rim-removing apparatus. No. 1,350,372; Aug. 24; v. 277; p. 607.
Maqua Company, The. (See Benham, Charles E., assignor.)
Maranville, Harvey F., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Rubber-mold. No. 1,350,105; Aug. 17; v. 277; p. 509.
Marble, Webster L., Gladstone, Mich. Recoil-pad for firearms. No. 1,349,779; Aug. 17; v. 277; p. 447.
Marchcione, Lewis, assignor to The Self Feeding Dauber Co., Inc., Boston, Mass. Blacking-dauber. No. 1,351,723; Aug. 31; v. 277; p. 934.
Marcroft, George, Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Cone-winding machine. No. 1,348,291; Aug. 3; v. 277; p. 32.
Marcus, Jacob, and J. F. Bergen, Brooklyn, N. Y. Trousers-waistband. No. 1,351,257; Aug. 31; v. 277; p. 842.
Margeson, Gertrude A. (See Sullivan, Michael F., assignor.)
Margetts, William H., Toronto, Ontario, Canada. Shading-machine. No. 1,348,653; Aug. 3; v. 277; p. 102.
Markham, Charles M., Milwaukee, Wis. Adjustable jack or shore. No. 1,349,576; Aug. 17; v. 277; p. 407.
Markham, Sidney L., Jamestown, N. Y. Angular coil-spring. No. 1,349,079; Aug. 10; v. 277; p. 286.
Marks, David. (See Taylor, D. R. N., and Marks.)
Marquette, Melvon A., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Reinforcement for tire-beads. No. 1,349,898; Aug. 17; v. 277; p. 469.
Marr, Alexander W., Canton, Ohio. Quick-action jack. No. 1,350,663; Aug. 24; v. 277; p. 665.
Marr, John W., Newport Beach, Calif. Auto-theft signal. No. 1,350,032; Aug. 17; v. 277; p. 495.
Marshall, Chilton M., assignor of one-half to R. E. Powell, Jefferson Davis parish, La. Transmission mechanism. No. 1,351,393; Aug. 31; v. 277; p. 870.
Marshall, Henry H., Jr., Garden City, N. Y. Power-transmission device for automobiles. No. 1,349,428; Aug. 10; v. 277; p. 305.
Marshall, James P., Indianapolis, Ind. Repair-jack stand. No. 1,350,555; Aug. 24; v. 277; p. 644.
Marshick, Oliver J., Detroit, Mich. Adapter for electrode-holders. No. 1,348,434; Aug. 3; v. 277; p. 60.
Marston, Gordon S., Ravenscourt Park, England. Drip-preventer and the like. No. 1,351,258; Aug. 31; v. 277; p. 842.
Marszalek, Ludwik, Passaic, N. J. Railway-switch. No. 1,350,373; Aug. 24; v. 277; p. 607.
Martel, Fred J., Hanover, N. H., C. A. Briggs, Joplin, Mo., D. L. Macaulay, Montreal, Quebec, Canada, W. R. Wright, Swarthmore, Pa., and F. Wenner, Asadia Park, D. C., assignors to N. D. Baker, Secretary of War, trustee. Machine-gun-control system. No. 1,349,140; Aug. 10; v. 277; p. 248.
Martenay, Alphonse J. (See Schwars, E. R., and Martenay.)
Martin, Albert, W., Columbus, Ohio. Gage. No. 1,351,528; Aug. 31; v. 277; p. 896.
Martin, Charles C., and J. H. Cotton, assignor to Kilborne and Jacobs Manufacturing Company, Columbus, Ohio. Automobile-vehicle. No. 1,350,462; Aug. 24; v. 277; p. 626.
Martin, Eugene T., Chicago, Ill. Hanger for concrete ceilings. No. 1,351,112; Aug. 31; v. 277; p. 818.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Registering-machine. No. 1,348,578; Aug. 3; v. 277; p. 86.
Martin, Luther B., Bexford, Mont. Automatically-locking switch-stand. No. 1,348,292; Aug. 3; v. 277; p. 52.
Martin, Robert P., *et al.* (See Bollock, Samuel W. M., assignor.)
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Measured-service-telephone system. No. 1,350,875; Aug. 24; v. 277; p. 704.
Martin, William B., Beloit, Wis. Oven-shelf. No. 1,351,394; Aug. 31; v. 277; p. 870.
Martineau, Laureat L., St. John, N. D. Liquid-container for aeroplanes. No. 1,351,395; Aug. 31; v. 277; p. 870.
Martinolcz, Adolph, Muskegon, Mich. Rotary-motion mechanism. No. 1,350,106; Aug. 17; v. 277; p. 509.
Martocci-Pisculli, Leon, New York, N. Y. Medicated pessary. No. 1,348,728; Aug. 3; v. 277; p. 115.
Martos, Miguel M., Mexico, Mexico. Cardboard-box. No. 1,349,780; Aug. 17; v. 277; p. 447.
Marvin, Sylvester S., Bryn Mawr, and W. Muns, Philadelphia, assignors to Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate and candy machine. No. 1,349,844; Aug. 17; v. 277; p. 459.
Marwin Truck Corporation. (See Winther, Anthony, assignor.)
Maschek, Louis and C. B. Higgins, Kansas City, Mo. Valve. No. 1,351,259; Aug. 31; v. 277; p. 842.
Mason, Carl T., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-switch. No. 1,349,080; Aug. 10; v. 277; p. 236.
Mason, George C., Springfield, Mass., assignor to F. D. Spotswood, Lexington, Ky. Megaphone. No. 1,349,268; Aug. 10; v. 277; p. 278.
Mason, Joseph. (See Kelley, W. V. D., and Mason.)
Masterson, John T., Huntington, W. Va. Gas-burner. No. 1,351,431; Aug. 31; v. 277; p. 877.
Mastin, Ellsworth, *et al.* (See Mowatt, Alexander, assignor.)
Masumoto, Shigeru, Los Angeles, Calif. Automobile traffic-signal. No. 1,348,367; Aug. 3; v. 277; p. 47.
Mata, José A., Berkeley, Calif. Foot-warmer. No. 1,348,506; Aug. 3; v. 277; p. 73.
Mather, Gurdon C., Detroit, Mich. Gear-shift lock. No. 1,349,978; Aug. 17; v. 277; p. 484.
Mathews, Frederick C., Company. (See Tansey, William J., assignor.)
Mathy, Maurice, Liege, Belgium. Furnace. No. 1,349,899; Aug. 17; v. 277; p. 469.
Matison, Saul. (See Green, N., and Matison.)
Matteson, Guy W. (See Ehr, John N. and W. J., and Matteson.)
Matthew, Oscar, Ford, Kans. Silo-hoist. No. 1,348,435; Aug. 3; v. 277; p. 60.
Matthews Engineering Company, The. (See Cosgray, Mark C., assignor.)
Matthews, Frederick W., assignor, by mesne assignments, to Arrow Phonograph Corporation, West Orange, N. J. Talking-machine record, and method and tool for making such records. No. 1,350,510; Aug. 24; v. 277; p. 635.
Matthews, W. N., and Brother. (See Heinrich, Walter A., assignor.)
Mauran, Max. (See Gerfin, G. P., and Mauran.)
Maurer, Oscar, Richmond Hill, N. Y. Sunshade. No. 1,351,389; Aug. 31; v. 277; p. 859.
Mauvillin, Emile, and V. Guillet, Courbevoie, France. Producing imitation of mother-of-pearl. No. 1,351,529; Aug. 31; v. 277; p. 897.
Max Ams Machine Co., The. (See Brenzinger, Julius, assignor.)
Maxwell, M. P., Brooklyn, and J. S. Lawson, St. James, N. Y. Electric switch. No. 1,350,107; Aug. 17; v. 277; p. 509.
Mayer, Franc D., Chicago, Ill. Tire filler and making same. No. 1,351,670; Aug. 31; v. 277; p. 924.
Mayer, Joseph W., Troy, assignor to J. A. Murray, Albany, N. Y. Mouthpiece for brush-making machines. No. 1,349,845; Aug. 17; v. 277; p. 459.
Mayer, Walter S., and W. C. Kennedy, New Brighton, Pa. Electric furnace. No. 1,350,876; Aug. 24; v. 277; p. 705.
Mayer, Walter S., and W. C. Kennedy, New Brighton, Pa. Oxidizing materials in electric furnaces. No. 1,350,877; Aug. 24; v. 277; p. 705.
Mayhall, James E., Covington, Ky. Direction-indicator. No. 1,351,671; Aug. 31; v. 277; p. 925.
Meacham, Henry. (See Love, Samuel H., assignor.)
Meads, Frederick, Toledo, Ohio. Clip-fastener for springs. No. 1,351,213; Aug. 31; v. 277; p. 833.
Meal, Philip J., Summit, N. J. Music-recorder. No. 1,351,432; Aug. 31; v. 277; p. 877.
Meals, Casper D., Trenton, N. J., assignor to Reading Steel Casting Company, Reading, Pa. Lifting-clamp. No. 1,351,530; Aug. 31; v. 277; p. 897.
Mechanical Improvement Co. (See de Martino, Joseph, assignor.)
Mechanical Manufacturing Company, The. (See Keebler, Elmer, assignor.)
Mechanical Rubber Company, The. (See Cobb, Henry Z., assignor.)
Meckling, Jonas J., Jr., Pittsburgh, Pa. Clothes-prop. No. 1,350,978; Aug. 24; v. 277; p. 724.

Mecum, Francis M., Chico, Calif. Power-lift for crank-axle implements. No. 1,349,900; Aug. 17; v. 277; p. 470.

Medén, Elof H., assignor to A. G. A. Railway Light and Signal Co., Inc., Elizabeth, N. J. Railway-crossing warning signal. No. 1,348,507; Aug. 3; v. 277; p. 73.

Medén, Elof H., assignor to A. G. A. Railway Light and Signal Co., Inc., Elizabeth, N. J. Railway signaling device. No. 1,348,508; Aug. 3; v. 277; p. 73.

Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,348,510; Aug. 3; v. 277; p. 73.

Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,348,511; Aug. 3; v. 277; p. 74.

Meeks, Mack O., Wildorado, Tex. Dirigible headlight mechanism. No. 1,351,299; Aug. 31; v. 277; p. 851.

Meem, James C., assignor of one-half to F. L. Cranford, Brooklyn, N. Y. Tunnel-lining. No. 1,350,556; Aug. 24; v. 277; p. 644.

Meigs, Curtis C., Philadelphia, Pa. Producing double superphosphate. No. 1,351,672; Aug. 31; v. 277; p. 925.

Meischke-Smith, William, San Francisco, Calif. Ferro-concrete construction. No. 1,349,901; Aug. 17; v. 277; p. 470.

Menkin, Solomon, New York, N. Y. Die-shifter. No. 1,349,974; Aug. 17; v. 277; p. 484.

Mentzer, John E., Chicago, Ill. Water-color-paint outfits. No. 1,340,217; Aug. 10; v. 277; p. 263.

Menzies, Robert C., Amsterdam, N. Y. Autoclave. No. 1,348,436; Aug. 3; v. 277; p. 60.

Meriggue, Giacinto. (See Balestrino, L., and Merigone.)

Merkel, Arthur E., *et al.* (See Stringer, Melvin, assignor.)

Merriman, Grove R., assignor to J. R. Vander Putten, Akron, Ohio. Brush for carpet-sweepers. No. 1,350,064; Aug. 24; v. 277; p. 665.

Mersch, Bernard H., Covington, Ky. Demountable-rim breaker. No. 1,350,418; Aug. 24; v. 277; p. 617.

Mersfelder, William L. (See Barbour, W. T., and Mersfelder.)

Mershon, Ralph D., New York, N. Y., and P. A. Ross, Norwalk, Conn.; said Ross assignor to said Mershon. Welding condenser parts. No. 1,350,557; Aug. 24; v. 277; p. 644.

Merwin, Joseph B., Lincoln, Nebr. Signal for motor-vehicles. No. 1,351,260; Aug. 31; v. 277; p. 842.

Messenger, Isaiah L., McGraw, N. Y. Screw driver and placer. No. 1,350,558; Aug. 24; v. 277; p. 644.

Metal & Thermit Corporation. (See Deppeler, John H., assignor.)

Metcalf, William F., *et al.* (See Holmes, Anderson M., assignor.)

Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)

Metzler, Jacob P., Geneva, N. Y. Occupant-propelled vehicle. No. 1,348,888; Aug. 10; v. 277; p. 198.

Meutsch, Charles C., Chicago, Ill., and E. A. Christoph, Buffalo, N. Y. Cushion-spring-assembling machine. No. 1,348,654; Aug. 3; v. 277; p. 102.

Meyer, Charles W., and F. G. Herrmann, Sheboygan, Wis. Bed-davenport. No. 1,349,620; Aug. 17; v. 277; p. 416.

Meyer, Charles W., and F. G. Herrmann, assignors to Sheboygan Couch Company, Sheboygan, Wis. Bed-davenport. No. 1,349,621; Aug. 17; v. 277; p. 416.

Meyer, Charles W., and F. G. Herrmann, assignors to Sheboygan Couch Company, Sheboygan, Wis. Bed-davenport. No. 1,349,622; Aug. 17; v. 277; p. 416.

Meyer, August, Wellston, assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Signal-lamp. No. 1,351,113; Aug. 31; v. 277; p. 813.

Meyer, Erwin E. A. G., Detroit, Mich., assignor to Morgan & Wright, Vulcanizing rubber. No. 1,350,824; Aug. 24; v. 277; p. 696.

Meyer, George L., Milwaukee, Wis. Gas-engine ignition. No. 1,439,846; Aug. 17; v. 277; p. 459.

Meyer, George U. (See Lederer, S. L., and Meyer.)

Meyer, Trygve E., Lombard, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,351,531; Aug. 31; v. 277; p. 897.

Meyerhofer, Albert F., Mannheim, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing dense ware from bauxite. No. 1,350,825; Aug. 24; v. 277; p. 696.

Michal, Alexander, West Orange, N. J. Belt-stapling device. No. 1,350,826; Aug. 24; v. 277; p. 696.

Michalek, Rudolph B., Newark, N. J. Cinematograph. No. 1,350,374; Aug. 24; v. 277; p. 608.

Middlebrook, Leslie E., Hall, N. Y. Timer for automobiles. No. 1,349,523; Aug. 10; v. 277; p. 324.

Middleton, Alfred S., assignor of one-half to W. M. Toole, Des Moines, Iowa. Spring-hub. No. 1,348,437; Aug. 3; v. 277; p. 60.

Middleton, Charles S., Blakely, Ga. Interest-calculator. No. 1,349,061; Aug. 10; v. 277; p. 236.

Middleton, Edward C., assignor to Triumph Cycle Company Limited, Coventry, England. Transmission shock-absorber. No. 1,349,082; Aug. 10; v. 277; p. 236.

Midgley, Albert H., assignor of one-half to S. A. Vandervell & Company Limited, Acton Vale, England. Ignition system for internal-combustion engines. No. 1,351,396; Aug. 31; v. 277; p. 870.

Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-bead. No. 1,349,902; Aug. 17; v. 277; p. 470.

Miehle Printing Press and Manufacturing Company. (See Blaine, Joseph R., assignor.)

Miles, Con L. (See Kain, H. Miles and Wilkinson.)

Millar, Charles, Vancouver, British Columbia, Canada. Automobile-signal. No. 1,349,289; Aug. 10; v. 277; p. 278.

Miller, Albert W., assignor of one-half to E. C. Bryan, Riverside, Calif. Coil-forming machine. No. 1,349,903; Aug. 17; v. 277; p. 470.

Miller, Alfred H., Philadelphia, Pa., assignor to Wright Roller Bearing Company. Assembling antifriction-bearings. No. 1,350,325; Aug. 24; v. 277; p. 598.

Miller, Edward, Columbus, Ohio, assignor to C. J. Root, Terre Haute, Ind. Glass-working machine. No. 1,350,375; Aug. 24; v. 277; p. 608.

Miller, Edwin, Hartford, Conn. Electric sadiron. No. 1,351,054; Aug. 31; v. 277; p. 802.

Miller, Edwin E., Tyrone, Pa. Shield for wheels. No. 1,351,261; Aug. 31; v. 277; p. 842.

Miller, Elton W., Washington, D. C. Gas-mask. No. 1,348,819; Aug. 3; v. 277; p. 132.

Miller, Ernest A. F., Jr. (See Miller, William L., and E. A. F., Jr.)

Miller, Harry M., Milwaukee, Wis. Outlet-valve. No. 1,348,233; Aug. 3; v. 277; p. 21.

Miller, Henry S., Washington, D. C. Perforating-rule. No. 1,351,002; Aug. 24; v. 277; p. 729.

Miller, John H. K., Clapham, London, S., England. Divider, caliper, and like instrument. No. 1,350,511; Aug. 24; v. 277; p. 635.

Miller, Oscar L. (See Hahn, L. R., and Miller.)

Miller Rubber Company, The. (See Willis, Glenn H., assignor.)

Miller, Samuel H., La Junta, Colo. Latch. No. 1,351,300; Aug. 31; v. 277; p. 851.

Miller, Solomon M., Chicago, Ill. Hair-clipper. No. 1,348,293; Aug. 3; v. 277; p. 32.

Miller, Walter H., Orange, N. J. Phonograph. No. 1,350,616; Aug. 24; v. 277; p. 656.

Miller, William L., and E. A. F., Jr., assignors of one-third to N. A. Cooke, Coffeyville, Kans. Direction-signal for automobiles. No. 1,350,463; Aug. 24; v. 277; p. 626.

Miller, Wilmer W., Ardmore, Pa. Alarm device. No. 1,349,004; Aug. 17; v. 277; p. 470.

Milliken, Foster, *et al.*, trustees. (See Milliken, Foster, assignor.)

Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Ripplier, trustees. Alloy. No. 1,350,166; Aug. 17; v. 277; p. 521.

Milliken, Foster, Lawrence, N. Y., assignor to Foster Milliken, S. F. Weaver, and J. M. Kepplier, trustees. Alloy. No. 1,351,673; Aug. 31; v. 277; p. 925.

Mills, Arthur, Sacramento, Calif. Vehicle-wheel. No. 1,350,617; Aug. 24; v. 277; p. 656.

Mills, Byron T., Las Vegas, N. Mex. Copy-holder. No. 1,349,905; Aug. 17; v. 277; p. 471.

Mills, Claud E., Des Moines, Iowa. Front-end-suspension structure for self-propelled vehicles. No. 1,348,512; Aug. 3; v. 277; p. 74.

Milne, George G., Rye, and J. L. Creveling, White Plains, N. Y., assignors to Gould Coupler Company. Electric regulation. No. 1,351,055; Aug. 31; v. 277; p. 803.

Milwaukee Corrugating Company. (See Luedke, August J., assignor.)

Miner, Carl S., assignor to Quaker Oats Company, Chicago, Ill. Alimentary paste. No. 1,349,524; Aug. 10; v. 277; p. 324.

Minerals Separation North American Corporation. (See Cole, David, assignor.)

Mingle, John R., Anthony, Kans. Corn-header. No. 1,349,847; Aug. 17; v. 277; p. 460.

Minneapolis Threshing Machine Co. (See Hill, Chauncy H., assignor.)

Misener & Irving Manufacturing Co. (See Misener, John I., assignor.)

Misener, John I., assignor to Misener & Irving Manufacturing Co. Inc., Syracuse, N. Y. Conduit-seal. No. 1,351,724; Aug. 31; v. 277; p. 934.

Missouri, John M., Montrose, Minn. Air force-pump. No. 1,351,397; Aug. 31; v. 277; p. 871.

Mitchell, Ernest R., Philadelphia, Pa. Door rabbet-strip. No. 1,350,108; Aug. 17; v. 277; p. 510.

Mitchell, Eugene F., Spokane, Wash. Folding table. No. 1,349,687; Aug. 17; v. 277; p. 429.

Mitchiner, James I., Atlanta, Ga. Relay-armature. No. 1,351,674; Aug. 31; v. 277; p. 925.

Moats, Ortus E., Chicago, and J. D. Benbow, Aurora, assignors to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 1,351,114; Aug. 31; v. 277; p. 813.

Mock, Hugo, New York, N. Y. Heat-insulating device. No. 1,349,727; Aug. 17; v. 277; p. 437.

Mock, James C., and B. F. Williston, Detroit, Mich., assignors to J. M. Fitzgerald, River Forest, Ill. Lock. No. 1,348,234; Aug. 3; v. 277; p. 21.

Model Form Company. (See Luery, M., and Nelson, assignors.)

Modrell, Arthur E., near Saxton, Mo. Automatic tractor-oiler. No. 1,350,559; Aug. 24; v. 277; p. 645.

Moeller, Joseph F., assignor to Moeller Machine Company, Chicago, Ill. Jack-truck. No. 1,348,294; Aug. 3; v. 277; p. 33.

Moeller Machine Company. (See Moeller, Joseph F., assignor.)

Moffat, James W., Toronto, Ontario, Canada. Process and apparatus for the reduction of metallic oxid ores. No. 1,348,889; Aug. 10; v. 277; p. 198.

Moffatt, James R., Chicago, Ill., assignor to Union Special Machine Company. Stitch-forming mechanism for sewing-machines. No. 1,350,326; Aug. 24; v. 277; p. 598.

Moffatt, James R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Loop-retainer for sewing-machines. No. 1,350,931; Aug. 24; v. 277; p. 715.

Moffett, Thomas S., assignor of one-half to A. O. Johnson, Walla Walla, Wash. Weeding implement. No. 1,348,438; Aug. 3; v. 277; p. 61.

Moir, Mabel, San Francisco, Calif. Bed. No. 1,350,827; Aug. 24; v. 277; p. 598.

Moir, William, Chicago, Ill. Toy vehicle. No. 1,350,232; Aug. 17; v. 277; p. 534.

Monahan, Thomas G. (See Cupp, Harry N., assignor.)

Monahan, William P., *et al.* (See Bonney, Bick R., assignor.)

Monarch Metal Products Company. (See Lane, Alfred M., assignor.)

Money, William C., assignor of one-half to H. Bogorad, Washington, D. C. Lighting attachment for phonographs. No. 1,351,675; Aug. 31; v. 277; p. 925.

Monroe Calculating Machine Company. (See Phinney, Edgar E., assignor.)

Monroe, William, Hooper, Nebr. Clasp-hook. No. 1,350,033; Aug. 17; v. 277; p. 495.

Montgomery, James W., Thomasville, Ga. Combined harrow and cultivator. No. 1,350,876; Aug. 24; v. 277; p. 608.

Moody, Philip E., *et al.* (See Hachmann, Frederick, assignor.)

Mook, Joseph O., Kankakee, Ill. Traction attachment for automobiles. No. 1,349,083; Aug. 10; v. 277; p. 236.

Moon, Frank, Oakland, Calif., assignor to Moon Tractor Co., San Francisco, Calif. Transmission mechanism for tractors. No. 1,351,485; Aug. 31; v. 277; p. 888.

Moon, John C., St. Louis, Mo. Pump. No. 1,349,218; Aug. 10; v. 277; p. 263.

Moon Tractor Co. (See Moon, Frank, assignor.)

Mooney, Dermot J. (See Brown, E. E., and Mooney.)

Mooney, William H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition apparatus. No. 1,348,368; Aug. 3; v. 277; p. 47.

Moore, Asbury, Seneca, S. C. Plow. No. 1,349,623; Aug. 17; v. 277; p. 416.

Moore Brothers Company. (See Dabrowski, Joseph M., assignor.)

Moore, George R., and C. S. Leonard, Philadelphia, Pa. Pipe-bender. No. 1,349,219; Aug. 10; v. 277; p. 263.

Moore, Julius B., Durango, Colo. Shock-absorber for automobiles and other vehicles. No. 1,349,781; Aug. 17; v. 277; p. 447.

Moore, Lee R. (See Manning, R. B., and Moore.)

Moore, Lena C., Binghamton, N. Y. Kettle-cover drainer and holder. No. 1,349,084; Aug. 10; v. 277; p. 237.

Moore, Roy W., Schenectady, N. Y., assignor to General Electric Company. Making silicon tetrachlorid. No. 1,350,932; Aug. 24; v. 277; p. 716.

Moore, Walter A., Welland, Ontario, Canada. Rolling-perspective rule. No. 1,348,655; Aug. 3; v. 277; p. 102.

Moosmann, Paul, Brooklyn, N. Y. Watchman's time-detector. No. 1,351,056; Aug. 31; v. 277; p. 803.

Moran, John L., Worcester, Mass., assignor to Heald Machine Company. Magnetic chuck. No. 1,349,343; Aug. 10; v. 277; p. 288.

Morey, Worthie W., Columbus, Ohio. Ventilator. No. 1,348,513; Aug. 3; v. 277; p. 74.

Morgan, Alfred M. (See Anderson, A. V., and Morgan.)

Morgan, Henry S., assignor to Pouvailsmith Corporation, Poughkeepsie, N. Y. Cap for automobile-radiators and the like. No. 1,349,137; Aug. 10; v. 277; p. 247.

Morgan, John D., assignor to Steel Utilities, Summit, N. J. Metal-punching machine. No. 1,349,975; Aug. 17; v. 277; p. 484.

Morgan, Lewis H., assignor to The American Auto Alarm Company, Cleveland, Ohio. Audible alarm for vehicles. No. 1,349,467; Aug. 10; v. 277; p. 312.

Morgan & Wright. (See Jury, Alfred E., assignor.)

Morgan & Wright. (See Meyer, Edwin E. A. G., assignor.)

Morrill, Alfred R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inseam sewing-machine. No. 1,350,377; Aug. 24; v. 277; p. 608.

Morris, Harry F., Collingswood, N. J. Forced-draft water-grate. No. 1,348,235; Aug. 3; v. 277; p. 21.

Morrison, Alfred J., Denver, Colo., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Extension-bottom-box-wrapping apparatus. No. 1,348,369; Aug. 3; v. 277; p. 47.

Morrison, Andrew, Pittsburgh, Pa., assignor to Dilworth Porter & Company, Pittsburgh, Pa. Tie-plate. No. 1,348,370; Aug. 3; v. 277; p. 48.

Morrison, Walter L., Los Angeles, Calif. Process and apparatus for reducing metallic oxids. No. 1,350,419; Aug. 24; v. 277; p. 617.

Morrison, William F., Vallejo, Calif. Concrete tie. No. 1,350,420; Aug. 24; v. 277; p. 617.

Morrison, William N., St. Louis, Mo. Key-ring holder. No. 1,349,468; Aug. 10; v. 277; p. 313.

Morrow, Samuel W., Baltimore, Md. Burner. No. 1,348,574; Aug. 3; v. 277; p. 86.

Morrow, Samuel W., assignor to The Reus Bros. Company, Baltimore, Md. Piston packing-ring. No. 1,349,728; Aug. 17; v. 277; p. 437.

Morse Instrument Company. (See Morse, Robert V., assignor.)

Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Automatic fuse-setter for anti-aircraft artillery. No. 1,349,220; Aug. 10; v. 277; p. 264.

Morse, William F., assignor to S. R. Parry, Rochester, N. Y. Adjustable cutting-knife. No. 1,351,115; Aug. 31; v. 277; p. 813.

Morse, William F., assignor to S. R. Parry, Rochester, N. Y. Corner-cutter. No. 1,351,116; Aug. 31; v. 277; p. 814.

Morse, Willis S., New York, N. Y., and C. T. Evans, Milwaukee, Wis. Circuit-controller. No. 1,351,184; Aug. 31; v. 277; p. 827.

Mosby, Alfred D., assignor to Equipment Corporation of America, Chicago, Ill. Mixing-machine. No. 1,351,725; Aug. 31; v. 277; p. 934.

Moses, Harry S., Hubbard Woods, Ill. Undergarment. No. 1,349,976; Aug. 17; v. 277; p. 484.

Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Vault-vestibule. No. 1,349,138; Aug. 10; v. 277; p. 247.

Mosler Safe Company, The. (See Mosler, M., and Bartels, assignors.)

Mosley, Charles W., Hollywood, Calif. Milk-bottle cover. No. 1,350,167; Aug. 17; v. 277; p. 521.

Motor Terminals Company. (See Fitch, Benjamin F., assignor.)

Motto, Joseph M. (See Dolan, John P., assignor.)

Motz, Charles F., Monaca, Pa. Sand-blast machine. No. 1,351,581; Aug. 31; v. 277; p. 907.

Moulder, Duncan, San Antonio, Tex. Steering-adjuster for automobiles. No. 1,349,460; Aug. 10; v. 277; p. 313.

Mouldin, George W., Danville, Ill. Motorcycle. No. 1,350,878; Aug. 24; v. 277; p. 705.

Mount Carmel Brass Foundry Works. (See Somers, William A., assignor.)

Mount, Thomas L., New York, N. Y. System for charging storage batteries. No. 1,348,236; Aug. 3; v. 277; p. 21.

Mouse, Harold E., Elkins, W. Va. Dirigible headlight. No. 1,349,085; Aug. 10; v. 277; p. 237.

Movnessian, Missak. (See Vincent, Joseph E., assignor.)

Mowatt, Alexander, Warkworth, assignor, by direct and mesne assignments, of one-third to J. H. E. Vrooman, one-third to B. Asselstine, and one-third to E. Mastin, Belleville, Ontario, Canada. Harrow for eliminating quack-grass and the like. No. 1,350,512; Aug. 24; v. 277; p. 635.

Moyer, Fredelia H., Westmont borough, Pa. Side frame. No. 1,349,624; Aug. 17; v. 277; p. 417.

Moyle, Henry D., *et al.* (See Watanabe, Bunzo, assignor.)

Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)

Mueller, Albert B., Chicago, Ill. Picture-projection apparatus. No. 1,348,656; Aug. 3; v. 277; p. 102.

Mueller, August, New York, N. Y. Hatband-loom. No. 1,351,533; Aug. 31; v. 277; p. 897.

Mueller, Peter J. O., Peoria, Ill. Signaling device for vehicles. No. 1,351,532; Aug. 31; v. 277; p. 897.

Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Fuller-ball. No. 1,350,378; Aug. 24; v. 277; p. 608.

Muentnich, Fred A. (See Tiemann, George, assignor.)

Mulinex, Chase, Tolley, N. D. Rotary engine. No. 1,350,168; Aug. 17; v. 277; p. 521.

Mulkern, John J., Cambridge, Mass. Wall bolt-holder. No. 1,349,977; Aug. 17; v. 277; p. 485.

Mulkern, Thomas A., Hollywood, assignor of one-half to C. E. Kerlee, Los Angeles, Calif. Vaporizer for internal-combustion engines. No. 1,350,079; Aug. 17; v. 277; p. 504.

Mullane, James P., Cambridge, Mass. Shirt. No. 1,350,169; Aug. 17; v. 277; p. 521.

Muller, Frank. (See Koval, Martin M., assignor.)

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling-cutter. No. 1,348,295; Aug. 3; v. 277; p. 33.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,296; Aug. 3; v. 277; p. 33.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,297; Aug. 3; v. 277; p. 33.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,298; Aug. 3; v. 277; p. 33.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,299; Aug. 3; v. 277; p. 34.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,300; Aug. 3; v. 277; p. 34.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,301; Aug. 3; v. 277; p. 34.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,302; Aug. 3; v. 277; p. 34.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,303; Aug. 3; v. 277; p. 34.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Thread-milling hob. No. 1,348,304; Aug. 3; v. 277; p. 35.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making thread-milling hobs. No. 1,348,305; Aug. 3; v. 277; p. 35.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making thread-milling hobs. No. 1,348,306; Aug. 3; v. 277; p. 35.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling-cutter. No. 1,348,307; Aug. 3; v. 277; p. 35.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,308; Aug. 3; v. 277; p. 36.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling-cutters. No. 1,348,309; Aug. 3; v. 276; p. 36.

Müller, Gebhard, New York, N. Y. Mechanical movement. No. 1,349,470; Aug. 10; v. 277; p. 313.

Muller, Henry, East Orange, N. J. Card-index. No. 1,350,665; Aug. 24; v. 277; p. 665.

Munger, Louis D., Springfield, Mass. Piston-groove tool. No. 1,351,057; Aug. 31; v. 277; p. 803.

Muns, William. (See Marvin, S. S., and Muns.)

Murdock, George J., Newark, N. J. War-aeroplane fuel-tank. No. 1,349,290; Aug. 10; v. 277; p. 278.

Murnane, Daniel J., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Glass-securing device. No. 1,351,055; Aug. 31; v. 277; p. 803.

Murphey, Walter P. (See Giles, Charles F., assignor.)

Murphy, Clinton C., deceased, Chicago, Ill., E. B. Murphy, executrix, assignor to W. P. Murphy, New York, N. Y. Railway-car-door construction. No. 1,348,237; Aug. 3; v. 277; p. 22.

Murphy, Edna B., executrix. (See Murphy, Clinton C.)

Murphy Engineering Company, The. (See Murphy, Peter W., assignor.)

Murphy, John A., Pueblo, Colo. Metal precipitator and separator. No. 1,349,086; Aug. 10; v. 277; p. 237.

Murphy, Peter W., assignor to The Murphy Engineering Company, Detroit, Mich. Guideway and sliding member therefor. No. 1,348,371; Aug. 3; v. 277; p. 48.

Murphy, Stephen J., Drogheda, Ireland. Storage cylinder or vessel for compressed air or gas. No. 1,350,666; Aug. 24; v. 277; p. 665.

Murphy, Thomas J. (See Wilbur, M. D., Cannon, and Murphy.)

Murphy, Thomas J., assignor of one-half to J. P. B. Duffy, Rochester, N. Y. Arc-lamp system. No. 1,350,170; Aug. 17; v. 277; p. 521.

Murphy, Walter P. (See Gilpin, Garth G., assignor.)

Murphy, Walter P. (See Murphy, Clinton C.)

Murphy, Walter P. (See Sandman, August G., assignor.)

Murphy, Walter P. (See Sisson, Vinton E., assignor.)

Murray, Ethelbert T. B., Hertfordshire, and G. F. Shotter, London, England. Electric switch. No. 1,349,429; Aug. 10; v. 277; p. 305.

Murray, Joseph B. (See Murray, Thomas E., Jr., and J. B.)

Murray, Thomas E., New York, N. Y. Sheet-metal vehicle-wheel. No. 1,350,827; Aug. 24; v. 277; p. 696.

Murray, Thomas E., New York, N. Y. Making a plurality of like tubular objects. No. 1,350,829; Aug. 24; v. 277; p. 697.

Murray, Thomas E., Brooklyn, N. Y. Closure for openings in boiler-headers. No. 1,350,832; Aug. 24; v. 277; p. 697.

Murray, Thomas E., Brooklyn, N. Y. Electrically welding transverse plates to tubes. No. 1,350,833; Aug. 24; v. 277; p. 697.

Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Hollow projectile shell of sheet metal. No. 1,350,828; Aug. 24; v. 277; p. 697.

Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Making housings for automobile transmission-gear. No. 1,350,830; Aug. 24; v. 277; p. 697.

Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electric welding. No. 1,350,831; Aug. 24; v. 277; p. 697.

Murrin, John. (See Wafer, W. H., and Murrin.)

Murry, John A. (See Mayer, Joseph W., assignor.)

Muschenheim, Frederick A., and F. W. Blasdale, New York, N. Y. Switchboard and the like. No. 1,350,328; Aug. 24; v. 277; p. 598.

Muther, Lorenz. (See Lautenschlager, William F., assignor.)

Mutschler, A. & H. G., Inc. (See Mutschler, Henry G., assignor.)

Mutschler, Henry G., assignor to A. & H. G. Mutschler, Inc., Rochester, N. Y. Ribbon-inking machine. No. 1,351,582; Aug. 31; v. 277; p. 907.

Mussy, Ernest E., assignor of one-half to C. H. Ritterbush, Canton, Ohio. Lawn-trimmer. No. 1,351,185; Aug. 31; v. 277; p. 827.

Myers, Henry E., Bowman, N. D. Eye-tester. No. 1,349,025; Aug. 17; v. 277; p. 417.

Myers, Hubert A., Toledo, Ohio. Signal means. No. 1,349,848; Aug. 17; v. 277; p. 460.

Myers, Philip H., Philadelphia, Pa. Switch-lock. No. 1,348,729; Aug. 3; v. 277; p. 115.

Myers, Walter, S., Darby, Pa. Nut-lock. No. 1,351,676; Aug. 31; v. 277; p. 926.

Nachenius, Henri A. J. D., Haarlem, Netherlands. Reversible traversing motion. No. 1,350,560; Aug. 24; v. 277; p. 645.

Nadel, Louis D. (See Catucci, P., and Nadel.)

Nagel, Henry W., Charleston, S. C. Sewer-trap. No. 1,351,677; Aug. 31; v. 277; p. 926.

Nairn Linoleum Company, The. (See O'Brien, Charles A., assignor.)

Nankervis, Charles T., Indianapolis, Ind. Loose-leaf ledger. No. 1,349,577; Aug. 17; v. 277; p. 408.

Napier, Charles, assignor to Napier Saw Works Inc., Springfield, Mass. Apparatus for making tempered blades. No. 1,350,618; Aug. 24; v. 277; p. 656.

Napier, D., & Son. (See Rowledge, Arthur J., assignor.)

Napier Saw Works. (See Napier, Charles, assignor.)

National Brake & Electric Company. (See Aikman, Burton S., assignor.)

National Carbon Company. (See Feild, Alexander L., assignor.)

National Carbon Company. (See Rampp, Frank, assignor.)

National Cash Register Company, The. (See Martin, Haakon A., assignor.)

National Dump Car Company. (See Otis, Spencer, assignor.)

National Marking Machine Company. (See Hoffman, Ray, assignor.)

National Paper Can Company. (See Hulbert, Edwin F., assignor.)

National Supply Company, The. (See Wright, Clyde S., assignor.)

National Surface Guard Company. (See Zimmerman, Clarence C., assignor.)

National Tube Company. (See Latshaw, Joseph W., assignor.)

National Tube Company. (See Sneddon, John, assignor.)

National X-Ray Redector Company. (See Hotchkin, Paul M., assignor.)

Navarre, Joseph R., Lakeside, Wash. Safety device for aviators. No. 1,349,782; Aug. 17; v. 277; p. 447.

Neahr, Jacob E., New York, N. Y. Match-holder. No. 1,351,340; Aug. 31; v. 277; p. 859.

Neddo, Richard, Norfolk, Va. Holder for advertisements and other papers. No. 1,349,906; Aug. 17; v. 277; p. 471.

Neely, Rant Y., Willamina, Oreg. Signal for motor-vehicles. No. 1,350,513; Aug. 24; v. 277; p. 636.

Neeper, William M., Capac, Mich. Wreck-salvaging apparatus. No. 1,349,578; Aug. 17; v. 277; p. 408.

Neff, Harry D., Cambridge, assignor to Re-Flilt Broom Company, Boston, Mass. Broom-holder. No. 1,350,514; Aug. 24; v. 277; p. 636.

Negus, Alfred C., Schenectady, N. Y. Flexible staybolt for steam-boilers. No. 1,348,657; Aug. 3; v. 277; p. 103.

Nelis, Joseph J., Brooklyn, N. Y. Steam-separator. No. 1,351,433; Aug. 31; v. 277; p. 878.

Nellier, Albert H., assignor to The Louden Machinery Company, Fairfield, Iowa. Overhead-track hanger. No. 1,349,141; Aug. 10; v. 277; p. 248.

Nelson, Alfred C. (See Reilly, E. J., and Nelson.)

Nelson, Ben S. (See Luery, M., and Nelson.)

Nelson, Carl A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Process of and machine for removing combustible coverings. No. 1,351,186; Aug. 31; v. 277; p. 828.

Nelson, Charles R., Seattle, Wash. Clothes-pressing machine. No. 1,350,379; Aug. 24; v. 277; p. 608.

Nelson, Clarence R. (See Stelting, Carl W., assignor.)

Nelson, Edward L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Modulating and transmitting system. No. 1,349,729; Aug. 17; v. 277; p. 438.

Nelson, Elgnar. (See Johnson, G., and Nelson.)

Nelson, Frank C., assignor of one-half to G. W. DeWitt, Clarksburg, W. Va. Clothesline. No. 1,350,380; Aug. 24; v. 277; p. 609.

Nelson, Otto, Chicago, Ill. Valve-lifter. No. 1,348,658; Aug. 3; v. 277; p. 103.

Nesbit, Arthur F., Wilkinsburg, Pa. Apparatus for rectifying electric currents. No. 1,349,907; Aug. 17; v. 277; p. 471.

Neumann, George, Chicago, Ill. Embossing-gage. No. 1,349,579; Aug. 17; v. 277; p. 408.

New Haven Clock Co. (See Porter, Wilson E., assignor.)

New York Belting & Packing Company. (See Kent, William J., assignor.)

New York Belting & Packing Company. (See Somerville, Albert A., assignor.)

Newark Paraffine & Parchment Paper Co. (See Stoner, Winifred S., assignor.)

Newbold, Fleming, *et al.* (See Manheimer, Louis B., assignor.)

Newbury, Frank D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Shunt attachment for brushes. No. 1,351,059; Aug. 31; v. 277; p. 803.

Newhall, Frederick A., New York, N. Y. Lock construction. No. 1,351,117; Aug. 31; v. 277; p. 814.

Newlon, James B., and C. Backinger, Seattle, Wash. Wrench. No. 1,351,583; Aug. 31; v. 277; p. 907.

Newman, Albert L., Memphis, Tenn. Automatic train-stop. No. 1,349,525; Aug. 10; v. 277; p. 324.

Newman, Joe, assignor of one-half to J. L. Boyd, Dallas, Tex. Cotton-harvester. No. 1,351,398; Aug. 31; v. 277; p. 871.

Newton, Dan, assignor of one-half to C. E. Brink, Jamestown, N. Y. Window-platform. No. 1,351,434; Aug. 31; v. 277; p. 878.

Nicholas, Francis C., Boston, Mass. Furnace. No. 1,350,233; Aug. 17; v. 277; p. 534.

Nichols, Frank L., Stamford, Conn. Apparatus for dehydrating food products. No. 1,351,118; Aug. 31; v. 277; p. 814.

Nichols, Oliver, Mound Valley, Kans. Tire and tube vulcanizer. No. 1,349,688; Aug. 17; v. 277; p. 429.

Nicholson, Arthur D. (See Nicholson, Howard M., G. B., and A. D.)

Nicholson, Frank T., Cambridge, Mass., and J. M. Nicholson, New York, N. Y., assignors to Westinghouse Electric & Manufacturing Company. Ash-discharge mechanism. No. 1,348,659; Aug. 3; v. 277; p. 103.

Nicholson, George B. (See Nicholson, Howard M., G. B., and A. D.)

Nicholson, Howard M., G. B., and A. D., Pittsburgh, Pa. Dispensing apparatus. No. 1,348,890; Aug. 10; v. 277; p. 199.

Nicholson, John M. (See Nicholson, Frank T. and J. M.)

Nicks, John H., San Saba, Tex. Twine-holder. No. 1,348,439; Aug. 3; v. 277; p. 61.

Niebling, Frederick C., Southington, Conn. Square and bevel structure. No. 1,349,087; Aug. 10; v. 277; p. 237.

Niedbala, Gregory, Elkhart, Ind. Aeroplane-fuselage. No. 1,349,526; Aug. 10; v. 277; p. 325.

Niederberger, Alois, Argyle, Wis. Mixing-machine. No. 1,350,171; Aug. 17; v. 277; p. 522.

Nierodka, Jan, Detroit, Mich. Combination trunk and table. No. 1,350,834; Aug. 24; v. 277; p. 698.

Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)

Niles-Bement Pond Company. (See Greenleaf, George E., assignor.)

Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)

Nilson, John L., and J. Prince, Chicago, Ill. Vehicle-windshield. No. 1,349,430; Aug. 10; v. 277; p. 305.

Nilson, Nils W., Walpole, Mass. Shuttle. No. 1,350,172; Aug. 17; v. 277; p. 522.

Nishi, Nagakata and N., Berkeley, Calif. Thermal circuit-controller. No. 1,348,514; Aug. 3; v. 277; p. 74.

Nishi, Nakasumi. (See Nishi, Nagakata and N.)

Nishimura, Heijiro. (See Honda, Tomatake, assignor.)

Nissen, Peter N., London, England. Joint for use in corrugated metal construction. No. 1,351,435; Aug. 31; v. 277; p. 878.

Nitrogen Corporation. (See Gerlin, G. P., and Mauran, assignors.)

Nitrogen Products Company. (See Hidden, Charles P., assignor.)

Nixon, Charles W., New Orleans, La. Lock for automobiles. No. 1,348,891; Aug. 10; v. 277; p. 199.

Nixon, Moses C., Chicago, Ill. Bed or attachment therefor. No. 1,348,820; Aug. 3; v. 277; p. 132.

Nobel's Explosives Company. (See Rintoul, W., and Nolan, assignors.)

Noble, Irvine M., and W. E. Gossling, Indianapolis, Ind., assignors to The Prest-O-Lite Company, Inc. Storage battery. No. 1,350,561; Aug. 24; v. 277; p. 645.

Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Caster. No. 1,349,088; Aug. 10; v. 277; p. 237.

Noennig, Ernest T., Wittenberg, Mo. Extension-table. No. 1,349,471; Aug. 10; v. 277; p. 313.

Noess, Will, Ellendale, N. D. Chain-protector. No. 1,350,234; Aug. 17; v. 277; p. 534.

Nolan, Thomas J., (See Rintoul, W., and Nolan.)

Nolen, Robert R., Dallas, Tex. Mill. No. 1,349,221; Aug. 10; v. 277; p. 264.

Non Skid Company of America. (See Bailey, William F. A., assignor.)

Norden, Svan, Cranston, R. I. Machine for tipping shoelaces. No. 1,348,660; Aug. 3; v. 277; p. 103.

Nordiska Kullager Aktubolaget. (See Danielsson, Axel, assignor.)

Norin, Carl E., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,350,173; Aug. 17; v. 277; p. 522.

Norman, Emil, Holmquist, S. D. Folding telescope. No. 1,348,730; Aug. 3; v. 277; p. 116.

Normann, John P., Crookston, Minn. Bookbinding-machine attachment. No. 1,351,060; Aug. 31; v. 277; p. 803.

Norsk Hydroelektrisk, Kvaelstofaktieselkab. (See La Cour, Jens L., assignor.)

North East Electric Company. (See Lee, Earle P., assignor.)

North East Electric Company. (See Williams, Anthony F., assignor.)

North, Samuel A., Bridgeport, Conn., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Gaging or assorting machine. No. 1,348,310; Aug. 3; v. 277; p. 36.

North, William A., assignor to Emerson-Brantingham Company, Rockford, Ill. Speed-regulator for engines. No. 1,348,633; Aug. 3; v. 277; p. 135.

Norton, Charles F., East St. Louis, Ill. Automobile-locking device. No. 1,349,849; Aug. 17; v. 277; p. 460.

Norton, Edward P., Oakland, Calif. Safety-razor. No. 1,349,291; Aug. 10; v. 277; p. 278.

Nortwed, Bennie, Kellerton, Iowa. Wire-stretcher. No. 1,350,287; Aug. 17; v. 277; p. 544.

Norwood, H. Y., and F. W. Stalker, assignors to Taylor Instrument Companies, Rochester, N. Y. Automatic recording mechanism. No. 1,350,174; Aug. 17; v. 277; p. 522.

Notter, Charles, West Hoboken, N. J. Ash-sifter. No. 1,350,080; Aug. 17; v. 277; p. 504.

Noyes, Charles W., administrator. (See Gorton, Robert.)

Nuckols, Paul, Cordova, Ala. Lap-drawing machine. No. 1,351,678; Aug. 31; v. 277; p. 926.

Nunn, Nevvens N., assignor to The Almetal Manufacturing Company, Maplewood, Mo. Washing-machine. No. 1,351,486; Aug. 31; v. 277; p. 888.

Nutt, Norman W., Trenton, N. J. Electric switch. No. 1,351,214; Aug. 31; v. 277; p. 833.

Nylund, Andro, Juneau, Alaska. Shingle-cutting machine. No. 1,350,879; Aug. 24; v. 277; p. 705.

Nymanning, George, Los Angeles, Calif. Drilling-bit. No. 1,351,262; Aug. 31; v. 277; p. 843.

Nystrom, Carl F., New York, N. Y. Air-vent. No. 1,350,109; Aug. 17; v. 277; p. 510.

Oakes, Frank M., Sioux City, Iowa. Infant's toilet-seat. No. 1,348,372; Aug. 3; v. 277; p. 48.

Oberman, Gertrude V., Modesto, Calif. Milk-bottle holder and cooler. No. 1,348,661; Aug. 3; v. 277; p. 103.

O'Brien, Charles A., assignor to The Nairn Linoleum Company, Kearney, N. J. Inlaying lineoleum and product thereof. No. 1,351,679; Aug. 31; v. 277; p. 926.

O'Brien, Joseph F., West New York, N. J. Awning-arm. No. 1,351,341; Aug. 31; v. 277; p. 860.

Obrima Automatische Waagenbau-Actiengesellschaft. (See Kader, Carl, assignor.)

Oca-Balda, José A., New York, N. Y. Alternated time-controlled mechanism for irons. No. 1,350,933; Aug. 24; v. 277; p. 716.

Ochs, George F. A., Newark, N. J. Railway-tie. No. 1,350,381; Aug. 24; v. 277; p. 609.

O'Connor, Edward, New Haven, Conn. Soap-container. No. 1,350,175; Aug. 17; v. 277; p. 523.

O'Dell, George L., Belding, Mich. Basket. No. 1,349,431; Aug. 10; v. 277; p. 306.

Odenrider, Henry C., Wilbur, Wash. Four-wheel-truck weeder. No. 1,348,311; Aug. 3; v. 277; p. 36.

Odhner, Valentin J., Stockholm, Sweden. Calculating-machine. No. 1,348,575; Aug. 3; v. 277; p. 86.

Odhner, Valentin J., Stockholm, Sweden. Calculating-machine. No. 1,348,576; Aug. 3; v. 277; p. 87.

Odier, Antoine L., Puteaux, France. Starting apparatus for use with internal-combustion engines and other purposes. No. 1,351,599; Aug. 31; v. 277; p. 871.

Offenhauser, Christopher. (See Hottmann, Charles W., assignor.)

Ogawa, Riohei, Tokyo, Japan. Reinforcement for wooden keels and keelsons. No. 1,348,312; Aug. 3; v. 277; p. 36.

Ogden, John E., Cornwall, N. Y. Folded metal expansion-shield. No. 1,350,562; Aug. 24; v. 277; p. 645.

Ogden, John E., Cornwall, N. Y. Concrete-insert. No. 1,351,119; Aug. 31; v. 277; p. 814.

Ohio Malleable Iron Company, The. (See Anderson, David G., assignor.)

Ohio Motor Vehicle Company, The. (See Guthrie, James, assignor.)

Ohrt, Emil W., Reinbeck, Iowa. Spring-damper for valve mechanism. No. 1,349,089; Aug. 10; v. 277; p. 238.

Ohrt, Emil W., Reinbeck, Iowa. Spring damping means for valve mechanism. No. 1,349,090; Aug. 10; v. 277; p. 238.

Oil Well Supply Company. (See Mack, Patrick H., assignor.)

Ojust Spark Plug Works. (See Welch, Samuel P., assignor.)

Olney, Lillian B., assignor of one-half to F. Weeks and F. Berry, San Francisco, Calif. Collapsible automobile-rim. No. 1,350,262; Aug. 17; v. 277; p. 539.

Olsen, Hans P., Spokane, Wash. End-gate. No. 1,351,436; Aug. 31; v. 277; p. 878.

Olson, Eugene A., East Hartford, Conn. Combination card and memorandum-book. No. 1,350,733; Aug. 24; v. 277; p. 678.

Olson, Samuel, Chicago, Ill. Tray-elevator. No. 1,351,215; Aug. 31; v. 277; p. 834.

Olsson, John W., York, Pa. Toy vehicle. No. 1,348,577; Aug. 3; v. 277; p. 87.

Olsson, Nils J., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Means for automatically cutting off the feed-motion of machine-tools. No. 1,349,222; Aug. 10; v. 277; p. 264.

Olszewski, Sylvester, Detroit, Mich. Traffic-signal for automobiles. No. 1,349,689; Aug. 17; v. 277; p. 430.

Oltsch, George J., South Bend, Ind. Combined shock-absorber and rebound-snubber for vehicle-springs. No. 1,350,110; Aug. 17; v. 277; p. 510.

Onderdonk, Lansing, and A. J. Wohlpart, New York, N. Y., assignors to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,350,934; Aug. 24; v. 277; p. 716.

One Fire Asphalt Plant Company. (See West, Lawrence B., assignor.)
Oneida Community. (See Ellis, Ferrand F., assignor.)
Oneida Community. (See Smith, Gerard W., assignor.)
O'Neill, Arthur M., assignor to J. D. Brown, Pittsburgh, Pa. Securing-bolt. No. 1,349,344; Aug. 10; v. 277; p. 288.
Oppel, John V. (See Ettler, John A., assignor.)
Oppenheimer, Ruth B., New Rochelle, N. Y. Brassière and chemise. No. 1,351,437; Aug. 31; v. 277; p. 878.
Optische Signale Gesellschaft mit beschränkter Haftung. (See Illing, Edgar, assignor.)
Ormaniec, John, and G. Lembas, Novinger, Mo. Garbage-box for wagons. No. 1,351,120; Aug. 31; v. 277; p. 814.
Ormsby, Frank E., Chicago, Ill. Calipers or indicating-gage. No. 1,349,091; Aug. 10; v. 277; p. 288.
Ortis, Julien, Greenville, Del. Floating fortress. No. 1,350,667; Aug. 24; v. 277; p. 665.
Ortman, Ed, Kokomo, Ind. Auto-signal. No. 1,349,002; Aug. 10; v. 277; p. 238.
Osborn, Aiden E., New York, N. Y. Reversible internal-combustion engine. No. 1,348,955; Aug. 10; v. 277; p. 211.
Osborn Crew Manufacturing Company, The. (See La Ganke, Hugo C., assignor.)
Osborne, Clifton. (See Hardgrove, Burton C., assignor.)
Osborne, Harry E., Spokane, Wash. Rotary gas-engine. No. 1,350,880; Aug. 24; v. 277; p. 705.
Oschger, Joseph P., Chicago, Ill. Hydraulic elevator. No. 1,350,563; Aug. 24; v. 277; p. 646.
Ostenberg, Zeno, San Jose, Calif., assignor to International Cellulose Company, Reno, Nev. Dissolving cellulose. No. 1,348,731; Aug. 3; v. 277; p. 116.
Ostroski, Michael, Coniston, Ontario, Canada. Scaffold. No. 1,349,093; Aug. 10; v. 277; p. 238.
Otis, Spencer, Chicago, Ill., assignor to National Dump Car Company. Railway-car. No. 1,348,515; Aug. 3; v. 277; p. 74.
Ouellett, Thomas, Central Falls, R. I. Saw-frame. No. 1,351,121; Aug. 31; v. 277; p. 815.
Overlin, William S., Portland, Oreg. Lumber-truck. No. 1,349,292; Aug. 10; v. 277; p. 278.
Overlin, William S., Portland, Oreg. Means for electrically marking upon metals. No. 1,350,734; Aug. 24; v. 277; p. 679.
Oversmith, Elmer H., Buffalo, N. Y., assignor to The Buffalo Truck and Tractor Corporation, Buffalo, N. Y. Motor-vehicle. No. 1,350,668; Aug. 24; v. 277; p. 666.
Owen, Archie E., Malcom, Iowa. Pump-jack. No. 1,349,094; Aug. 10; v. 277; p. 238.
Owen, Donham, Berkeley, Calif. Adjustable school-disk. No. 1,350,669; Aug. 24; v. 277; p. 666.
Owen, John S., *et al.* (See Harmon, Alton D., assignor.)
Owen, William R., Utica, N. Y. Movable pocket for registers. No. 1,349,527; Aug. 10; v. 277; p. 325.
Owens Bottle Machine Company, The. (See Graham, J. B., and La France, assignors.)
Owens Bottle Machine Company, The. (See La France, Richard, assignor.)
Owens Bottle Machine Company, The. (See Owens, Michael J., assignor.)
Owens, Michael, J., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Means for transferring hot glass. No. 1,350,464; Aug. 24; v. 277; p. 626.
Owens, Percy R., Mount Kisco, N. Y. Electrical control system. No. 1,350,382; Aug. 24; v. 277; p. 609.
Owsiak, Stephen, Chicago, Ill. Fishing-signal. No. 1,349,528; Aug. 10; v. 277; p. 325.
P. & M. Company, The. (See Warr, Harold G., assignor.)
Pace, Jefferson D., assignor to Acme Oil & Drill Co., Inc., Shreveport, La. Well-drilling bit for oil, water, or gas. No. 1,351,003; Aug. 24; v. 277; p. 729.
Pacific Coast Borax Company. (See Jacobi, Karl J., assignor.)
Packard Motor Car Company. (See Hunt, Ormond E., assignor.)
Padgett, George H., Otisville, N. Y. Transmission-case. No. 1,351,680; Aug. 31; v. 277; p. 926.
Paesano, Vincenzo, Isola Siri Superiore, Italy, assignor of one-half to P. Di Milla, Boston, Mass. System for developing power by tidal movement. No. 1,348,313; Aug. 3; v. 277; p. 37.
Paff, Charles, New York, N. Y. Retaining-wall for embankments. No. 1,349,166; Aug. 10; v. 277; p. 253.
Page, Harry W. (See Edwards, William D., assignor.)
Page, Louis A., assignor of one-half to E. B. Evans, Providence, R. I. Safety-catch. No. 1,348,314; Aug. 3; v. 277; p. 37.
Paiste, H. T., Company. (See Paiste, Henry T., assignor.)
Paiste, Henry T., assignor to H. T. Paiste Company, Philadelphia, Pa. Fuse-plug. No. 1,350,111; Aug. 17; v. 277; p. 510.
Pa'ahniuk, John, Brule Mines, Alberta, Canada. Cork-extractor. No. 1,350,383; Aug. 24; v. 277; p. 609.
Palinski, Jan, Jersey City, N. J. Food-cutting device. No. 1,348,821; Aug. 3; v. 277; p. 132.
Palmer, Charles A., Seattle, Wash. Dental mold-cup. No. 1,351,584; Aug. 31; v. 277; p. 908.
Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullager-Fabriken, Gottenborg, Sweden. Roller-bearing. No. 1,350,263; Aug. 17; v. 277; p. 540.
Pangrazio, Bert, Scottsville, N. Y. Tire-valve. No. 1,351,400; Aug. 31; v. 277; p. 871.
Paper Service Company. (See Brown, G. G., and Schuchart, assignors.)
Paradis, Louis A. (See Kilts, F., and Paradis.)
Paradis, Robert F., Milwaukee, Wis. Picture-screen-frame projector. No. 1,349,590; Aug. 17; v. 277; p. 408.
Parcells, Paul, assignor to Geo. Whiting Company, Chicago, Ill. Bending-roll. No. 1,349,690; Aug. 17; v. 277; p. 430.
Parham, William M., Spring Hill, Tenn. Vehicle-wheel. No. 1,349,730; Aug. 17; v. 277; p. 438.
Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Splint-feeding mechanism for match-machines. No. 1,348,181; Aug. 3; v. 277; p. 10.
Parisi, Sebastiano, New York, N. Y. Innersole. No. 1,349,095; Aug. 10; v. 277; p. 289.
Park Drop Forge Company, The. (See Dodge, Charles C., assignor.)
Parker, Christine R. (See Parker, George H., assignor.)
Parker, Frederick R., Chicago, Ill. Electrical protective apparatus. No. 1,350,329; Aug. 24; v. 277; p. 599.
Parker, George H., assignor to C. R. Parker, Stamford, Conn. Game. No. 1,350,384; Aug. 24; v. 277; p. 610.
Parker, Leslie H. (See Partington, J. R., and Parker.)
Parker, Riley H. (See Tsibides, J. N., and Parker.)
Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 1,350,034; Aug. 17; v. 277; p. 495.
Parker, William J. (See Garner, H., J. P., and Parker.)
Parrett Tractor Company. (See Frudden, Conrad E., assignor.)
Parry, Samuel R. (See Morse, William F., assignor.)
Parsons, Charles A., Newcastle-upon-Tyne, and S. S. Cook, Wallsend, England. Power-transmission gear-wheel. No. 1,351,401; Aug. 31; v. 277; p. 872.
Parsons, Robert J., assignor to General Electric Company, Fort Wayne, Ind. Electric switch. No. 1,349,851; Aug. 17; v. 277; p. 460.
Partington, James R., and L. H. Parker, London, England. Fertilizer. No. 1,348,578; Aug. 3; v. 277; p. 87.
Partonnar, Ora L., Kansas City, Mo. Turntable-rack for ovens. No. 1,350,330; Aug. 24; v. 277; p. 599.
Partridge, Charles L., Omaha, Nebr. Bench-saw. No. 1,348,440; Aug. 3; v. 277; p. 61.
Pasman, Abram N., Waterbury, Conn. Flush-valve. No. 1,348,662; Aug. 3; v. 277; p. 104.
Pastor, Frank, Akron, assignor to The Anchor Rubber Company, Inc., Barberton, Ohio. Toy balloon. No. 1,350,935; Aug. 24; v. 277; p. 716.
Patremio, Martin, assignor of one-half to A. Barbery, Lodi, N. J. Toy rattle. No. 1,348,836; Aug. 3; v. 277; p. 135.
Patterson, David C., Omaha, Nebr. Building construction. No. 1,349,850; Aug. 17; v. 277; p. 460.
Pattison, Abraham C., Cumberland, Wis. Combined toaster and boiler-support. No. 1,349,520; Aug. 10; v. 277; p. 325.
Pattison, Roscoe, C., Rochester, N. Y., Apparatus for use in making cores or the like. No. 1,350,564; Aug. 24; v. 277; p. 646.
Pattosien, William J., San Francisco, Calif. Power ship-cleaning device. No. 1,349,167; Aug. 10; v. 277; p. 253.
Pauley, Edward M., Birdsview, Wash. Adjustable wrench. No. 1,349,552; Aug. 17; v. 277; p. 461.
Paulson, Hans, Ortin, Wash. Muffler. No. 1,351,122; Aug. 31; v. 277; p. 815.
Pavey, William B. (See French, G. M., and Pavey.)
Payne, David E., Magnolia, Minn. Fur-stretcher. No. 1,348,238; Aug. 3; v. 277; p. 22.
Payne, Floyd E., Indianapolis, Ind. Dispensing apparatus. No. 1,350,112; Aug. 17; v. 277; p. 510.
Payne, Osborn R., Oelwein, Iowa. Mail-box. No. 1,350,515; Aug. 24; v. 277; p. 636.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,349,345; Aug. 10; v. 277; p. 289.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Cartridge-magazine. No. 1,350,619; Aug. 24; v. 277; p. 656.
Payne, Ralph W., Irvington, assignor of one-half to V. C. Armstrong, Hackensack, N. J. Wrench. No. 1,349,691; Aug. 17; v. 277; p. 430.
Pearce, Herbert, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. No. 1,349,385; Aug. 10; v. 277; p. 297.
Pearman, Frank M., Watertown, S. D. Drill-cabinet. No. 1,348,732; Aug. 3; v. 277; p. 116.
Pease, Herbert D., Richmond Hill, and W. P. Cohoe, Riverdale, assignors to The Sanseal Corporation, New York, N. Y. Composite cap or closure. No. 1,351,438; Aug. 31; v. 277; p. 879.
Peck, Charles H., Philadelphia, Pa. Tractor. No. 1,348,815; Aug. 3; v. 277; p. 37.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Treatment of soapy liquor. No. 1,349,530; Aug. 10; v. 277; p. 325.
Peck, Ernest J., Portland, Oreg. Resilient support for plasterers' hawks. No. 1,348,516; Aug. 3; v. 277; p. 75.

Peck, Harley T., Lebanon, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Primer for small-arms ammunition. No. 1,350,465; Aug. 24; v. 277; p. 626.
Peden, Hugh L., New York, assignor of one-half to W. F. Kearney, Sprlug Valley, N. Y. Snow-melter. No. 1,349,853; Aug. 17; v. 277; p. 461.
Pedersen, John D., Jackson, Wyo. Autoloading firearm. No. 1,348,733; Aug. 3; v. 277; p. 116.
Pedersen, Julius, Bridgeport, Conn. Shelf-reacher. No. 1,350,331; Aug. 24; v. 277; p. 599.
Peek, Frank W., Jr., Pittsfield, Mass., assignor to General Electric Company. Insulator. No. 1,350,936; Aug. 24; v. 277; p. 716.
Peerless Motor Car Company, The. (See Frech, Theodore W., assignor.)
Peery, Emory W., Lynchburg, Va. Gravity control for gas-engine feed. No. 1,351,128; Aug. 31; v. 277; p. 815.
Peet, William, Kansas City, Mo. Box-end-sealing machine. No. 1,349,432; Aug. 10; v. 277; p. 306.
Pegnam, Thomas H., Brockton, Mass. Combined mail-opening and door-knocker. No. 1,349,731; Aug. 17; v. 277; p. 438.
Peller, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-feeding machine and process. No. 1,349,551; Aug. 10; v. 277; p. 329.
Peltier, August O., assignor, by mesne assignments, to Detroit Pressed Steel Company, Detroit, Mich. Demountable-wheel-lifting device. No. 1,349,581; Aug. 17; v. 277; p. 408.
Pemberton-Billing, Noel, Hertford, England. Domestic heating and cooking apparatus. No. 1,349,006; Aug. 10; v. 277; p. 239.
Pemberton-Billing, Noel, Hertford, England. Stove. No. 1,349,732; Aug. 17; v. 277; p. 438.
Pennefather, James S., assignor of one-half to W. E Price, New York, N. Y. Lamp-fixture. No. 1,351,681; Aug. 31; v. 277; p. 926.
Pennsylvania Chocolate Company. (See Marvin, S. S., and Muns, assignors.)
Perdue, Robert H., and Leroy W. Theis, Cleveland, Ohio. Drafting appliance. No. 1,351,534; Aug. 31; v. 277; p. 898.
Perkins, B. F., & Son, Inc. (See Bartlett, Henry B., assignor.)
Perkins, John L., Sabetha, Kans. Oil-burner. No. 1,350,466; Aug. 24; v. 277; p. 627.
Perkins, Richard E., Joplin, Mo., assignor to A. H. Lanyon, Pittsburg, Kans., trustee for The Dealers Manufacturing Company. Smoking-pipe. No. 1,349,293; Aug. 10; v. 277; p. 279.
Perlmutter, Harry, Brooklyn, N. Y. Baby-carriage. No. 1,351,439; Aug. 31; v. 277; p. 879.
Pero, Bertram S. (See Wurts, E. V., and Pero.)
Peroxide Specialty Company, The. (See Fleck, Herman, assignor.)
Perrault, Joseph E., assignor to Hood Rubber Company, Watertown, Mass. Means for cutting rings and washers from rubber tubing. No. 1,348,316; Aug. 3; v. 277; p. 37.
Perry, Charles L., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,350,937; Aug. 24; v. 277; p. 717.
Perry, George R., New York, N. Y. Furniture-leveler. No. 1,348,441; Aug. 3; v. 277; p. 61.
Perry, James P., Glencoe, N. Mex. Boiler. No. 1,350,565; Aug. 24; v. 277; p. 646.
Perry, John. (See Leviston, W., and Perry.)
Peters Cartridge Company, The. (See Peck, Harley T., assignor.)
Peters, John F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Transformer. No. 1,351,061; Aug. 31; v. 277; p. 804.
Peters, Percy D. (See Davis, Verner F., assignor.)
Petersen, Walter R., Milwaukee, Wis. Tire-tread attachment. No. 1,349,626; Aug. 17; v. 277; p. 417.
Peterson, Julius C., Spokane, Wash. Sweatband for hats. No. 1,349,472; Aug. 10; v. 277; p. 313.
Peterson, Louis P., Enderlin, N. D. Attachment for internal-combustion engines. No. 1,350,385; Aug. 24; v. 277; p. 610.
Peterson, Marinus, Kenmare, N. D. Aeroplane. No. 1,350,938; Aug. 24; v. 277; p. 717.
Peterson, Peter A., New York, N. Y. Crumb pan and brush. No. 1,349,582; Aug. 17; v. 277; p. 409.
Peterson, Victor E., Minneapolis, Minn. Cord-cutter. No. 1,349,627; Aug. 17; v. 277; p. 417.
Petigor, Morris H. (See Adams, Edward M., assignor.)
Petit, Henri, Ermont, France. Mean-speed indicator. No. 1,350,620; Aug. 24; v. 277; p. 656.
Petters Limited. (See Brooks, Herbert, assignor.)
Pettitt, Frank R., Portland, Oreg. Heater. No. 1,351,342; Aug. 31; v. 277; p. 860.
Pettit, John, Taft, Calif. Oil-pump. No. 1,350,939; Aug. 24; v. 277; p. 717.
Pettit, John R., New York, N. Y. Rubber heel. No. 1,350,332; Aug. 24; v. 277; p. 559.
Pfanstiehl Company. (See Balke, Clarence W., assignor.)
Pfeffer, Oscar W., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Fuel-pump. No. 1,349,005; Aug. 10; v. 277; p. 221.
Pfeifer, Frederick W., St. Louis, Mo. Folding cot and stretcher. No. 1,350,516; Aug. 24; v. 277; p. 636.
Pfund, August H. (See Grondahl, L. O., and Pfund.)
Pfund, August H., Baltimore, Md. Colorimetry of paints and pigments. No. 1,350,366; Aug. 24; v. 277; p. 610.
Pfunder, Louise M., Portland, Oreg. Thread holding and cutting attachment for spools. No. 1,350,881; Aug. 24; v. 277; p. 706.
Phelan, Richard, Oakland, and F. Bendix, San Francisco, Calif. Berth. No. 1,350,081; Aug. 17; v. 277; p. 503.
Philadelphia Textile Machinery Company, The. (See Schwartz, W. M., and ...yers, assignors.)
Phillips, Burland J., Buffalo, N. Y. Relieving attachment for lathes or the like. No. 1,350,735; Aug. 24; v. 277; p. 670.
Phillips, Edward E., Syracuse, N. Y. Bottle-capping machine. No. 1,349,087; Aug. 10; v. 277; p. 239.
Phillips, Lewis F. (See Truesdell, A. E., and Phillips.)
Phillips, William W., Richmond, Va. Automatic coupling. No. 1,349,433; Aug. 10; v. 277; p. 306.
Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Over-rotation check for calculating-machine gears. No. 1,349,628; Aug. 17; v. 277; p. 417.
Pickett, James H., Queen, N. Mex. Gate. No. 1,350,235; Aug. 17; v. 277; p. 534.
Pickup, John H., Philadelphia, Pa., assignor of one-half to G. A. Wilson, New York, N. Y. Treating fibers. No. 1,350,621; Aug. 24; v. 277; p. 657.
Pieper, Alphonse F. (See Pieper, O. H. and A. F.)
Pieper, Oscar H. and A. F., Rochester, N. Y. Electric motor. No. 1,348,230; Aug. 3; v. 277; p. 22.
Pieper, Oscar H. and A. F., Rochester, N. Y. Pulley-guard. No. 1,348,240; Aug. 3; v. 277; p. 22.
Pierce, Harry S., Wilmington, Del. Sash attachment. No. 1,349,168; Aug. 10; v. 277; p. 254.
Pierce, John, Jr., South Norwalk, assignor of one-half to D. S. Cummings, Stamford, Conn. Boiler-unit-assembling rack. No. 1,350,286; Aug. 17; v. 277; p. 534.
Pierce, John O., New York, N. Y. Carpet-beater. No. 1,351,535; Aug. 31; v. 277; p. 898.
Pierce, Percy, Dayton, Ohio. Toy aeroplane. No. 1,348,373; Aug. 3; v. 277; p. 48.
Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Eyelet-machine. No. 1,348,892; Aug. 10; v. 277; p. 199.
Pifer, Marie W., Sullivan, Ill. Grapefruit-corer. No. 1,351,216; Aug. 31; v. 277; p. 834.
Piggott, James T., Parkersburg, W. Va. Window-cleaner. No. 1,348,443; Aug. 3; v. 277; p. 61.
Pihlfeldt, Thomas G., and F. C. Hartung, Chicago, Ill. Oil-cup. No. 1,350,566; Aug. 24; v. 277; p. 646.
Pinto, Angelo, Coney Island, N. Y. Amusement device. No. 1,350,176; Aug. 17; v. 277; p. 523.
Piper, Walter F. (See Beardsley, E. O., and Piper.)
Pisciotta, Sam, Kansas City, Mo. Interlocking-block wall construction. No. 1,350,835; Aug. 24; v. 277; p. 698.
Pitman, Henry L., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,349,386; Aug. 10; v. 277; p. 297.
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,350,287; Aug. 24; v. 277; p. 610.
Pitt, John W., Bath, and G. Sague, Highland, N. Y. Printer's plate-hook. No. 1,348,663; Aug. 3; v. 277; p. 104.
Pittman, Henry C. (See Pittman, Reinhart W., assignor.)
Pittman, Reinhart W., New York, N. Y., assignor to Henry C. Pittman, Hackensack, N. J. Saw and method and means of hardening same. No. 1,351,440; Aug. 31; v. 277; p. 879.
Pittsburgh Lamp, Brass & Glass Company. (See Yokel, Frank, assignor.)
Pittsburgh Meter Company. (See Chrisman, Horace, assignor.)
Pittsburgh Plate Glass Company. (See Brown, Clarence M., assignor.)
Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
Pivot Button Company. (See Helwig, Herman H., assignor.)
Plastoid Products. (See Routt, Orville L., assignor.)
Platt, Clarence D., Bridgeport, Conn. Rotary snap-switch. No. 1,351,124; Aug. 31; v. 277; p. 815.
Plice, Thomas V., assignor to The Topping Manufacturing Co., Ashland, Ohio. Door-latch and controlling device for combined hinge and slide doors. (Reissue.) No. 14,945; Aug. 31; v. 277; p. 936.
Plym, Francis J., assignor to Kawneer Manufacturing Company, Niles, Mich. Airplane construction. No. 1,348,374; Aug. 3; v. 277; p. 48.
Podjevin, Joseph, Schenectady, N. Y. Moving-picture machine. No. 1,350,388; Aug. 24; v. 277; p. 610.
Pokorny, Frank, Jr., assignor of one-third to F. W. Keegan and one-third to D. M. Livingston, New York, N. Y. Governor. No. 1,348,956; Aug. 10; v. 277; p. 212.
Pond, Edmund M., Rutland Vt. Absorbent-bandage package. No. 1,351,441; Aug. 31; v. 277; p. 879.
Pontiere, Stanley M., Philadelphia, Pa. Automobile-signal. No. 1,348,182; Aug. 3; v. 277; p. 10.

Pontius, Meri R., and A. L. West, Eldorado, Kans. Sand-reel support. No. 1,348,734; Aug. 3; v. 277; p. 116.

Poole, Arthur F., Chicago, Ill. Speedometer. No. 1,351,585; Aug. 31; v. 277; p. 908.

Pope, Frederick J., New Rochelle, assignor to W. B. Thompson, Yonkers, N. Y. Illumination of pictures. No. 1,348,957; Aug. 10; v. 277; p. 212.

Popper, Isaac C., assignor to The Theros Company, New York, N. Y. Grill-stove. No. 1,351,682; Aug. 31; v. 277; p. 926.

Porter Chemical Company, The. (See Porter, Harold M., assignor.)

Porter, Harold M., Hagerstown, Md., assignor to The Porter Chemical Company. Educational device. No. 1,350,237; Aug. 17; v. 277; p. 535.

Porter, Henry K., Brookline, Mass. Cutting-tool. No. 1,348,735; Aug. 3; v. 277; p. 117.

Porter, James C. (See Stanley, J., and Porter.)

Porter, Wilson E., New Haven, Conn., assignor to New Haven Clock Co. Removable self-holding washer for clock-movements. No. 1,348,517; Aug. 3; v. 277; p. 75.

Posson, Edward, Chicago, Ill. Pneumatic-tire drive for dynamos of railway-cars. No. 1,350,467; Aug. 24; v. 277; p. 627.

Post, Elisha A., and E. F. Schmitz, Allegan, Mich. Burial-casket. No. 1,348,579; Aug. 3; v. 277; p. 87.

Post, Landon E., and D. A. Riedy, San Francisco, Calif. Dehydrating plant. No. 1,349,908; Aug. 17; v. 277; p. 471.

Postel-Vinay, Pierre J. R., assignor to Societe Des Moteurs Salmson. (Systeme Canton-Unne.) Paris, France. Magneto-frame. No. 1,349,962; Aug. 17; v. 277; p. 430.

Pottenger, Thomas T. (See Webb, G. C., and Pottenger.)

Potwin, George H., assignor to Accounting Devices Company, Chicago, Ill. Loose-leaf device. No. 1,351,487; Aug. 31; v. 277; p. 888.

Pouvaillsmith Corporation. (See Morgan, Henry S., assignor.)

Povelsen, Ingild, Washington, D. C. Compensating balance-wheel. No. 1,350,035; Aug. 17; v. 277; p. 486.

Powell, R. E. (See Marshall, Chilton M., assignor.)

Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,350,882; Aug. 24; v. 277; p. 706.

Pratt, Elmer M., and A. H. Rockefeller, Macksville, Kans.; said Pratt assignor to said Rockefeller. Portable nest structure. No. 1,350,264; Aug. 17; v. 277; p. 540.

Pratt & Whitney Company. (See Müller, Friederich, assignor.)

Pratt & Whitney Company. (See Thacker, John J., assignor.)

Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Sulfur-terpene compound. No. 1,349,909; Aug. 17; v. 277; p. 471.

Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Waterproofed fabric. No. 1,349,910; Aug. 17; v. 277; p. 471.

Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Vulcanized article and producing same. No. 1,349,911; Aug. 17; v. 277; p. 472.

Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Article and bonding metal and vulcanized rubber. No. 1,349,912; Aug. 17; v. 277; p. 472.

Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Pneumatic tire and making same. No. 1,349,913; Aug. 17; v. 277; p. 472.

Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Solid tire and making same. No. 1,349,914; Aug. 17; v. 277; p. 472.

Prebble, Andrew, Altoona, Kans. Game apparatus. No. 1,348,442; Aug. 3; v. 277; p. 61.

Press, Earle P., Lake Bluff, Ill. Reinforced concrete construction. No. 1,348,445; Aug. 3; v. 277; p. 62.

Press, Jacob H., Chicago, Ill. Motor-vehicle. No. 1,348,241; Aug. 3; v. 277; p. 22.

Pressed Metal Radiator Company. (See Sonneborn, Charles, assignor.)

Pressed Steel Car Company. (See Lockwood, Burns D., assignor.)

Pressed Steel Car Company. (See Lockwood, B. D., and Suckfield, assignors.)

Prest-O-Lite Company, The. (See Noble, I. M., and Gossling, assignors.)

Preston, Edward S., Chicago, Ill. Dashboard lamp-socket. No. 1,348,893; Aug. 10; v. 277; p. 199.

Pribil, Alexis R., Cleveland, Ohio. Making connecting-rods. No. 1,350,177; Aug. 17; v. 277; p. 523.

Pribil, Alexis R., Saginaw, Mich. Making connecting-rods. No. 1,350,178; Aug. 17; v. 277; p. 523.

Price, Nathan H., Shannon, Ala. Pipe. No. 1,351,683; Aug. 31; v. 277; p. 927.

Price, Walter B., Los Angeles, Calif., and E. Dietz, New Orleans, La. Apparatus for continuously cracking oils. No. 1,349,294; Aug. 10; v. 277; p. 279.

Price, William E. (See Pennefather, James S., assignor.)

Price, William T., New Rochelle, assignor to De La Vergne Machine Company, New York, N. Y. Combustion-engine. No. 1,351,718; Aug. 31; v. 277; p. 933.

Pridgen, Wiley H., Creek, N. C. Compressed-air device for handling gasolene. No. 1,350,517; Aug. 24; v. 277; p. 636.

Priest, Edward D., assignor to General Electric Company, Schenectady, N. Y. Commutator for dynamo-electric machines. No. 1,349,854; Aug. 17; v. 277; p. 461.

Prince, Clarence K., Westfield, Mass. Pipe-flange-turning machine. No. 1,349,434; Aug. 10; v. 277; p. 306.

Prince, John. (See Nilson, J. L., and Prince.)

Prisbrey, George W., assignor of one-third to Grant Prisbrey, St. George, Utah. Artificial leg. No. 1,350,518; Aug. 24; v. 277; p. 637.

Prisbrey, Grant. (See Prisbrey, G. W., assignor.)

Pritelli, Vincenzo, Rome, Italy. Airship. No. 1,351,301; Aug. 31; v. 277; p. 851.

Prisma Incorporated. (See Kelley, W. V. D., and Mason, assignors.)

Process Company, The. (See Coast, John W., Jr., assignor.)

Pröstler, Norbert, assignor, by mesne assignments, to The Chemical Foundation, Inc., Berlin, Germany. Method and apparatus for uniting together pieces of brass, aluminium, and similar metals or alloys by electric-resistance heating. No. 1,351,684; Aug. 31; v. 277; p. 927.

Providence Stock Company. (See Lederer, S. L., and Meyer, assignors.)

Prud'homme, Hippolyte M., assignor to L. F. Sherman, trustee, Boston, Mass. Method of and apparatus for producing stereoscopic motion-picture films. No. 1,350,886; Aug. 24; v. 277; p. 698.

Pruitt, Orin M., assignor to Indiana Air Pump Company, Indianapolis, Ind. Air-lift separator-pump. (Reissue.) No. 14,937; Aug. 24; v. 277; p. 730.

Pugniet, Paul, Paris, France. Stocking-suspender. No. 1,348,444; Aug. 3; v. 277; p. 62.

Pukell, Joseph M., Duluth, Minn. Pipe-flange wrench. No. 1,350,519; Aug. 24; v. 277; p. 637.

Purvis, George, Port Huron, Mich. Blow-off for boilers. No. 1,351,586; Aug. 31; v. 277; p. 908.

Putnam, Charlotte M., Falls City, Nebr. Reversible hand-covering. No. 1,351,685; Aug. 31; v. 277; p. 927.

Quaglia, Alberto. (See Lopez, G. M., and Quaglia.)

Quaker Oats Company. (See Miner, Carl S., assignor.)

Quast, Bruno, Cöln-Deutz, Germany. Block and bar shears. No. 1,349,915; Aug. 17; v. 277; p. 472.

Quick, Claude J., Pulaski, N. Y. Leaf-spring. No. 1,348,446; Aug. 3; v. 277; p. 62.

Quilty, John J. (See Bishop, William J., assignor.)

Quinan, Kenneth B., Somerset West, Cape Province, South Africa. Production of sulfuric acid. No. 1,348,736; Aug. 3; v. 277; p. 117.

Quinn, Patrick H., Somerville, Mass. Container. No. 1,351,187; Aug. 31; v. 277; p. 828.

Quintin, Clarence E., assignor to L. W. Riddle, Glen Riddle, Pa. Oil-cup. No. 1,349,098; Aug. 10; v. 277; p. 239.

Racolock Company, The. (See Raccio, Pasquale, assignor.)

Raccio, Pasquale, assignor to The Racolock Company, New Haven, Conn. Latch. No. 1,351,686; Aug. 31; v. 277; p. 927.

Radtke, Albert A., Chicago, Ill. Method of and means for establishing electrical circuits. No. 1,350,334; Aug. 24; v. 277; p. 600.

Ragona, Vincent. (See Cory, S. C., and Ragona.)

Rahne, Rudolf G. N., Gottenborg, Sweden. Finger-board for violins. No. 1,348,894; Aug. 10; v. 277; p. 200.

Rail Joint Company, The. (See McCaulley, Charles G., assignor.)

Rail, Lee, and W. Hebern; said Hebern assignor of one-fourth to E. J. McLaughlin and one-fourth to J. F. Sullivan, San Francisco, Calif. Steering-wheel mounting. No. 1,350,841; Aug. 24; v. 277; p. 699.

Ralston, Jasper N., Fitzgerald, Ga. Steam-boiler ash-pan. No. 1,348,737; Aug. 3; v. 277; p. 117.

Ramage, John M., Uniontown, Pa. Cushion-tire. No. 1,351,536; Aug. 31; v. 277; p. 898.

Ramm, George F., Del Monte, Calif. Attachment for ironing-machines. No. 1,351,688; Aug. 31; v. 277; p. 928.

Ramp Building Corporation. (See d'Humy, Fernand E., assignor.)

Rampp, Frank, assignor to National Carbon Company, Inc., New York, N. Y. Portable electric light. No. 1,350,837; Aug. 24; v. 277; p. 698.

Randall, Lillian L., and E. A. Fries, Boston, Mass. Clay-turning machine. No. 1,348,580; Aug. 3; v. 277; p. 87.

Randall, Victor E., Battle Creek, Mich. Closure for cans and conduit-bushings. No. 1,348,317; Aug. 3; v. 277; p. 37.

Raney, Clemma R., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Bundle-carrier. No. 1,349,435; Aug. 10; v. 277; p. 306.

Range Finding Sight Company. (See Gregory, Eli E., assignor.)

Rankin, Anna L., Peoria, Ill. Garment. No. 1,351,687; Aug. 31; v. 277; p. 927.

Ransome, Arthur W., Plainfield, assignor to Ransome Concrete Machinery Company, Dunellen, N. J. Concrete-mixing apparatus. No. 1,350,179; Aug. 17; v. 277; p. 523.

Ransome Concrete Machinery Company. (See Ransome, Arthur W., assignor.)

Rapson, Frederick L., Liverpool, England. Lifting-jack and the like for use on motor road and other vehicles. No. 1,350,036; Aug. 17; v. 277; p. 496.

Rasmussen, Martin, Racine, assignor to A. R. Tesch, Milwaukee, Wis. Separable broom-head and filler therefor. No. 1,350,520; Aug. 24; v. 277; p. 637.

Rattermann, George B., Chicago, Ill., and W. W. Garrison, Birmingham, Ala. Automatic fire-alarm. No. 1,349,531; Aug. 10; v. 277; p. 325.

Rauscher, Frederick, New York, N. Y. Combined lamp and signal. No. 1,351,689; Aug. 31; v. 277; p. 928.

Ray, Paul H., *et al.* (See Watanabe, Bunso, assignor.)

Ray, Xolon O., Chaffee, Mo. Display-stand. No. 1,350,940; Aug. 24; v. 277; p. 717.

Raybestos Company, The. (See Simpson, Sumner, assignor.)

Rayburn, Alden G. (See Rayburn, Elwyn M. and A. G.)

Rayburn, Elwyn M. and A. G., Sausalito, Calif. Power-transmission apparatus. No. 1,348,738; Aug. 3; v. 277; p. 117.

Rayfield, Charles L., Chicago, Ill. Belt-tightener. No. 1,348,183; Aug. 3; v. 277; p. 10.

Rayfield, Charles L., Chicago, Ill. Flexible coupling. No. 1,348,184; Aug. 3; v. 277; p. 10.

Read, Charles H., Pittsburgh, Pa. Treating steel ingots. No. 1,349,733; Aug. 17; v. 277; p. 438.

Reading Steel Casting Company. (See Meals, Casper D., assignor.)

Reading Stove Works, Orr, Painter & Co., The. (See Genthner, Charles M., assignor.)

Reath, Calvin. (See Scanlin, E., and Reath.)

Rece, Frank S., Dallas, Tex. Decapitator. No. 1,349,916; Aug. 17; v. 277; p. 472.

Recker, Adolph C., Oakville, assignor to The Chase Companies Inc., Waterbury, Conn. Convertible plate for electrical plug-receptacles. No. 1,349,978; Aug. 17; v. 277; p. 485.

Records, Paul A., Perryton, Tex. Pusher attachment for tractors. No. 1,350,838; Aug. 24; v. 277; p. 698.

Recuero, Joseph G., New York, N. Y. Hydraulic motor. No. 1,350,265; Aug. 17; v. 277; p. 540.

Redeker, Edward S. (See Clark, Edward O., assignor.)

Redpath, Corabell, Los Angeles, Calif. Dolly. No. 1,349,099; Aug. 10; v. 277; p. 240.

Reece Button Hole Machine Company, The. (See Klewics, John, assignor.)

Reed, George H., Newark, N. J. Support for reinforcing-rods. No. 1,350,335; Aug. 24; v. 277; p. 600.

Reed, William. (See Garrison, Perry J., assignor.)

Reeve, William B. (See Sauer, V. O., and Reeve.)

Reeves, George C., Chicago, Ill., assignor to Dryden Rubber Company. Weather-strip. No. 1,350,883; Aug. 24; v. 277; p. 706.

Reeves, Percy, Chicago, Ill. Display and dispensing package. No. 1,348,318; Aug. 3; v. 277; p. 37.

Re-Flilt Broom Company. (See Neff, Harry D., assignor.)

Regenstein, Joseph, Chicago, Ill. Door-panel and the like. No. 1,351,488; Aug. 31; v. 277; p. 888.

Reichard, Willis E. (See Worthington, G. C., and Reichard.)

Reid, James S., Harrisburg, Ill. Railway-frog. No. 1,348,447; Aug. 3; v. 277; p. 62.

Reid, James W. (See Berry, H. H., and Reid.)

Reid, John, New York, N. Y. Furnace-front. No. 1,350,037; Aug. 17; v. 277; p. 496.

Reid, John, New York, N. Y. Furnace-front baffle construction. No. 1,350,468; Aug. 24; v. 277; p. 627.

Reid, William, Atlanta, Ga. Sign. No. 1,348,739; Aug. 3; v. 277; p. 117.

Reilly, Edgar J., Youngstown, and A. C. Nelson, Lakewood, assignors to The William B. Pollock Company, Youngstown, Ohio. Metal-transfer car. No. 1,348,319; Aug. 3; v. 277; p. 38.

Reilly, Joseph J., Newark, N. J. Window-curtain fixture. No. 1,350,336; Aug. 24; v. 277; p. 600.

Rein, G. H. (See Baumann, Ferdinand P., assignor.)

Reinhold, Frederick A., Jr., Astoria, N. Y. Collar-button. No. 1,348,958; Aug. 10; v. 277; p. 212.

Reini, William, Secaucus, N. J. Antiskid for tires. No. 1,349,295; Aug. 10; v. 277; p. 279.

Reip, Frank A. (See De Dominicis, V., and Reip.)

Reisinger, George, Rochester, N. Y. Chuck. No. 1,348,740; Aug. 3; v. 277; p. 117.

Relyea, Dewitt C., Coscob, Conn. Opener for glass-topped jars. No. 1,350,180; Aug. 17; v. 277; p. 524.

Remané, Hermann, Berlin, Germany. Soldering-iron. No. 1,350,161; Aug. 17; v. 277; p. 524.

Remington Arms Company. (See Loomis, Crawford C., assignor.)

Remington Arms Company. (See North, Samuel, assignor.)

Rempes, George H., Cleveland, Ohio. Test-clip. No. 1,351,343; Aug. 31; v. 277; p. 860.

Remy Electric Company. (See Berdon, A. E., Ringwald, and Gomory, assignors.)

Remy Electric Company, The. (See Rogers, Samuel, assignor.)

Rendle, Arthur E., Philadelphia, Pa. Non-slippable sole. No. 1,350,839; Aug. 24; v. 277; p. 699.

Reppliler, James M., *et al.*, trustees. (See Milliken, Foster, assignor.)

Research Corporation. (See Clevenger, G. H., and Caron, assignors.)

Restucci, Giuseppe, Naples, Italy. Device for superheating steam. No. 1,348,895; Aug. 10; v. 277; p. 200.

Reus Bros. Company, The. (See Morrow, Samuel W., assignor.)

Revere Rubber Company. (See Brogden, Joseph, T., assignor.)

Revere Rubber Company. (See Fisher, George F., assignor.)

Rex, Robert F., Andover, Ohio. Folding floor for railway-cars. No. 1,351,125; Aug. 31; v. 277; p. 815.

Reynard, Leonie S., London, England. Wearing-apparel, particularly relating to gowns, dresses, coats, and the like. No. 1,351,537; Aug. 31; v. 277; p. 898.

Reynolds, Arthur T., New York, N. Y. Upholstering. No. 1,349,629; Aug. 17; v. 277; p. 418.

Reynolds, Bruce A. (See Reynolds, William T. and B. A.)

Reynolds, John N., Greenwich, Conn. Indicator for flying-machines. No. 1,351,538; Aug. 31; v. 277; p. 899.

Reynolds, William T. and B. A., Port Arthur, Tex. Dynamo-electric machine. No. 1,349,100; Aug. 10; v. 277; p. 240.

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Folding seat. No. 1,348,375; Aug. 3; v. 277; p. 48.

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Warp stop-motion for looms. No. 1,350,113; Aug. 17; v. 277; p. 511.

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,351,188; Aug. 31; v. 277; p. 828.

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,351,189; Aug. 31; v. 277; p. 828.

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,351,190; Aug. 31; v. 277; p. 828.

Rhodes, Albert T., Worcester, Mass. Pavement. No. 1,348,950; Aug. 10; v. 277; p. 212.

Rhodes, George I., Glen Ridge, and H. V. Coes, Montclair, N. J. Process and apparatus for conveying and treating materials. No. 1,350,337; Aug. 24; v. 277; p. 600.

Rhines, George, assignor to Allith Prouty Company, Danville, Ill. Door-hanger. No. 1,351,062; Aug. 31; v. 277; p. 804.

Rice, Clara M., Aberdeen, S. D. Bottle-cap. No. 1,350,238; Aug. 17; v. 277; p. 535.

Rice, Cyrus W., assignor to Chemo-Mechanical Water Improvement Company, Philadelphia, Pa. Making fertilizer from city and like waste. No. 1,348,320; Aug. 3; v. 277; p. 38.

Rice, Joseph M., F. A. Joseph, and A. D. Rupp, New Haven, Conn., assignors to L. Candee & Company. Rubber footwear and method of manufacturing the same. No. 1,349,296; Aug. 10; v. 277; p. 279.

Rice, Pincus, New York, N. Y. Calendar. No. 1,350,114; Aug. 17; v. 277; p. 511.

Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. No. 1,350,941; Aug. 24; v. 277; p. 718.

Rich, James E., Springfield, assignor to Liberty Ignition Company, Boston, Mass. Farm implement. No. 1,351,063; Aug. 31; v. 277; p. 804.

Richard Auto Mfg. Company, The. (See Richard, François.)

Richard, François, assignor to The Richard Auto Mfg. Co., Cleveland, Ohio. Oiling device. No. 1,348,664; Aug. 3; v. 277; p. 104.

Richard, Leroy L., Coalinga, Calif. Pipe and casing tongs. No. 1,351,217; Aug. 31; v. 277; p. 834.

Richards, Brayton G., Chicago, Ill. Toy. No. 1,350,338; Aug. 24; v. 277; p. 600.

Richards, James E., Horton township, Renfrew county, Ontario, Canada. Shell. No. 1,350,339; Aug. 24; v. 277; p. 601.

Richards, Jesse T., Warrington, Fla. Shock-absorber. No. 1,348,581; Aug. 3; v. 277; p. 87.

Richards, Thomas E., London, England. Structure. No. 1,349,980; Aug. 17; v. 277; p. 485.

Richards, Thomas E., London, England. Structure. No. 1,350,289; Aug. 17; v. 277; p. 544.

Richardson, Henry, Passaic, N. J. Grain-unloading and grain-car-track construction. No. 1,350,736; Aug. 24; v. 277; p. 679.

Richmond-Standard Manufacturing Company, The. (See Zimmerman, Charles P., assignor.

Richter, William H., Philadelphia, Pa., assignor to A. A. Kent, Ardmore, Pa. Interrupter mechanism. No. 1,348,185; Aug. 3; v. 277; p. 10.

Ricketts, James R., Long Beach, Calif. Power-transmission means and control therefor. No. 1,348,822; Aug. 3; v. 277; p. 133.

Riddell, George H., assignor to Domestic Sewing Machine Co., Buffalo, N. Y. Bobbin-winder for motor-driven sewing-machines. No. 1,351,442; Aug. 31; v. 277; p. 879.

Riddick, David R. (See Mackintosh, Alexander L., assignor.)

Riddle, Leander W. (See Quintin, Clarence E., assignor.)

Riding, Alfred, Worcester, Mass. Window-seat. No. 1,351,690; Aug. 31; v. 277; p. 928.

Ridout, Harry C., Bournemouth, England. Resilient heel or lift for boots and shoes. No. 1,351,691; Aug. 31; v. 277; p. 928.

Ridsdale, Herbert W. (See Lees, E., and Ridsdale.)

Rieck, William L. (See Gerritson, J., and Rieck.)

Riedy, Dodge A. (See Post, L. E., and Riedy.)

Riesland, Daniel W., Duluth, Minn. Anatomical developing and adjusting machine. No. 1,348,896; Aug. 10; v. 277; p. 200.

Riess, William H., Cincinnati, Ohio. Telephone-operating device. No. 1,350,737; Aug. 24. v. 277; p. 679.
Rieth, Charles H., St. Louis, Mo. Implement-handle. No. 1,349,223; Aug. 10; v. 277; p. 264.
Rigby, John H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt-indenting machine. No. 1,351,064; Aug. 31; v. 277; p. 804.
Rigby, John H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon shoe-soles. No. 1,351,065; Aug. 31; v. 277; p. 804.
Riggs, Marion L., Bertha, Minn. Vehicle-spring. No. 1,350,942; Aug. 24; v. 277; p. 718.
Rightmire, Franklin. (See Fichten, Frank M., assignor.)
Riley, Thomas, Oelwein, Iowa. Protector for sewers of engine cinder-pits. No. 1,349,734; Aug. 17; v. 277; p. 439.
Riley, William F., Spokane, Wash. Package-tie. No. 1,351,344; Aug. 31; v. 277; p. 860.
Ringland, Albert, Philadelphia, Pa. Portable Brinnell hardness-tester. No. 1,348,897; Aug. 10; v. 277; p. 200.
Ringwald, Clarence. (See Berdon, A. E., Ringwald, and Gomory.)
Rintoul, William, and T. J. Nolan, assignors to Nobel's Explosives Company Limited. Stevenston, Ayrshire, Scotland. Gelatinization of cellulose nitric esters in the manufacture of explosives. No. 1,348,741; Aug. 3; v. 277; p. 117.
Rios, John, New York, N. Y. Thermostatic switch. No. 1,350,183; Aug. 17; v. 277; p. 524.
Rippler, James M., *et al.*, trustees. (See Milliken, Foster, assignor.)
Ripsch, Charles W., and J. C. Dawley, assignors to The Joyce-Cridland Company, Dayton, Ohio. Self-lowering lifting-jack. No. 1,349,101; Aug. 10; v. 277; p. 240.
Ritter, George F., and H. C. Tillotson, assignors to The Tillotson Manufacturing Company, Toledo, Ohio. Fuel-mixer. No. 1,351,126; Aug. 31; v. 277; p. 816.
Ritter, Lucinda, Riverside, Calif. Electric darning-ball. No. 1,349,979; Aug. 17; v. 277; p. 485.
Ritter, Mathew, Freehold, N. J. Speed-changing mechanism. No. 1,350,670; Aug. 24; v. 277; p. 686.
Ritterbush, Charles H. (See Muxzy, Ernest E., assignor.)
Rittman, Walter F. (See Whitaker, M. C., and Rittman.)
Ritz-Woller, Oliver C., Chicago, Ill. Windshield-cleaner for automobiles. No. 1,351,218; Aug. 31; v. 277; p. 834.
River and Rail Transportation Company. (See Kirchner, Henry W., assignor.)
Rivers, John L., Seattle, Wash. Clip and support for vertical file-folders. No. 1,351,127; Aug. 31; v. 277; p. 816.
Robbins, Arthur I., Quincy, Mass. Spar and boom turning machine. No. 1,350,840; Aug. 24; v. 277; p. 699.
Roberts, Aden H., and G. W. Weed, Waverly, N. Y. Bottle capping and corking tool. No. 1,351,539; Aug. 31; v. 277; p. 899.
Roberts, Harry H., Corwin, Kans. Attachment for binders. No. 1,349,855; Aug. 17; v. 277; p. 461.
Roberts, John W., assignor of one-third to R. L. Webster and one-third to W. P. Cornett, Oklahoma, Okla. Standard-lock. No. 1,351,402; Aug. 31; v. 277; p. 872.
Roberts, Raymond M., Melrose Highlands, Mass. Platform for use with elevating-trucks. No. 1,349,917; Aug. 17; v. 277; p. 473.
Robertson, Frank E. (See Geier, P. A., and Robertson.)
Robertson, William P., assignor to L. B. Koch, New York, N. Y. Control-switch for cinematographic target. No. 1,351,443; Aug. 31; v. 277; p. 879.
Robin, Jacob I., New York, N. Y. Gas-heater. No. 1,351,004; Aug. 24; v. 277; p. 729.
Robin, Jacob I., New York, N. Y. Gas-heater. No. 1,351,005; Aug. 24; v. 277; p. 729.
Robin, Jacob I., New York, N. Y. Upright gas-lamp. No. 1,351,128; Aug. 31; v. 277; p. 816.
Robinett, Winfield S., Oakland, Calif. Vulcanizing apparatus. No. 1,349,693; Aug. 17; v. 277; p. 430.
Robinson, Anderson C. S., Suffolk, Va. Dental ornament. No. 1,349,102; Aug. 10; v. 277; p. 240.
Robinson, Charles A., East Orange, N. J. Tennis-net appliance. No. 1,351,066; Aug. 31; v. 277; p. 805.
Robinson, Robert E., *et al.* (See Brown, Leonard L., assignor.)
Robison, Robert B., Caddo, Tex. Wire-line spooler. No. 1,348,448; Aug. 3; v. 277; p. 62.
Rockefeller, Albert H. (See Pratt, Elmer M.)
Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Automatic gas-analyzing apparatus. No. 1,351,129; Aug. 31; v. 277; p. 816.
Rodgers, Claude M. (See Rodgers, E. E., and Wenger.)
Rodgers, Elmer E., A. W. Wenger, and C. M. Rodgers, Warsaw, Ind. Animal-trap. No. 1,348,449; Aug. 3; v. 277; p. 63.
Roe, Alliott V., Hamble, Southampton, England. Seat support on aircraft. No. 1,350,266; Aug. 17; v. 277; p. 540.
Roe, Charles O., Indianapolis, Ind., assignor to Roe Metal Sandal Company, Milwaukee, Wis. Trench-sandal. (Reissue.) No. 14,934; Aug. 17; v. 277; p. 547.
Roe Metal Sandal Company. (Reissue.) (See Roe, Charles O., assignor.)
Roehr, Ada, Brooklyn, N. Y. Clothespin. No. 1,349,224; Aug. 10; v. 277; p. 264.
Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Measuring instrument. No. 1,351,130; Aug. 31; v. 277; p. 817.
Roeske, William A., McKee City, N. J. Level and tube-holder therefor. No. 1,348,742; Aug. 3; v. 277; p. 117.
Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,349,103; Aug. 10; v. 277; p. 240.
Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,349,104; Aug. 10; v. 277; p. 241.
Rogers, Samuel, Anderson, Ind., assignor to The Remy Electric Company. Unwinding device. No. 1,348,321; Aug. 3; v. 277; p. 38.
Rogers, Solomon D., Sacramento, assignor to Commercial Cars Construction Co., San Francisco, Calif. Railway-car. No. 1,350,567; Aug. 24; v. 277; p. 647.
Rogowski, Felix, Chicago, Ill. Razor-sharpener. No. 1,350,884; Aug. 24; v. 277; p. 706.
Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Frame for lamp resistances. No. 1,349,583; Aug. 17; v. 277; p. 409.
Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Reversing brush-gear for dynamo-electric machines. No. 1,349,584; Aug. 17; v. 277; p. 409.
Rohne Dishwasher Company. (See Rohne, Even J., assignor.)
Rohne, Even J., assignor to Rohne Dishwasher Company, Minneapolis, Minn. Dish-washing machine. No. 1,348,322; Aug. 3; v. 277; p. 38.
Rolls-Royce, Limited. (See Royce, Frederick H., assignor.)
Romadka, Rudolph, Milwaukee, Wis. Car-wheel. No. 1,350,738; Aug. 24; v. 277; p. 679.
Roman, James G., Wilmington, Del. Compound for external application. No. 1,350,842; Aug. 24; v. 277; p. 699.
Roman, James G., Wilmington, Del. Hair and scalp remedy. No. 1,350,843; Aug. 24; v. 277; p. 699.
Roney, Alexander B., Chicago, Ill. Flying-machine. No. 1,348,743; Aug. 3; v. 277; p. 118.
Rontey, Pierre A., Coscob, Conn. Collar-button. No. 1,348,450; Aug. 3; v. 277; p. 63.
Roos, Delmar G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Engine-indicator. No. 1,349,346; Aug. 10; v. 277; p. 280.
Roos, William F., Mamaroneck, N. Y. Projectile. No. 1,351,540; Aug. 31; v. 277; p. 899.
Root, Chapman J. (See Miller, Edward, assignor.)
Roots, Richard W., Ballarat, Victoria, Australia, assignor of one-third to S. Roots, Ballarat, Victoria, Australia, and one-third to J. Falconer, Wellington, New Zealand. Oil-filter. No. 1,350,521; Aug. 24; v. 277; p. 637.
Roots, Stanley, *et al.* (See Roots, Richard W., assignor.)
Rose, Alonzo N., Mount Vernon, N. Y. Measuring-liquid dispenser. No. 1,350,730; Aug. 24; v. 277; p. 680.
Rose, Maxwell C., assignor to The Cleveland-Akron Bag Co., Cleveland, Ohio. Machine for making valved paper bags. No. 1,351,219; Aug. 31; v. 277; p. 834.
Rose, Robert W., Clifton, assignor to Lally Commercial Body Company, Everett, Mass. Dumping vehicle-body and hoist therefor. No. 1,351,719; Aug. 31; v. 277; p. 933.
Rosenberg, Dora, administratrix. (See Rosenberg, Samuel.)
Rosenberg, Samuel, deceased, Chicago, Ill.; D. Rosenberg, administratrix. Windshield-hinge. No. 1,348,376; Aug. 3; v. 277; p. 49.
Rosenbluth, Edwin M., Wallingford, Pa. Lantern. No. 1,351,067; Aug. 31; v. 277; p. 805.
Rosenblum, Henry I., New York, N. Y. Clamp device. No. 1,349,225; Aug. 10; v. 277; p. 265.
Rosenfeld, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J. Lamp-support. No. 1,348,665; Aug. 3; v. 277; p. 104.
Rosenfeld, William W., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,348,582; Aug. 3; v. 277; p. 88.
Rosenfeld, William W., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,348,583; Aug. 3; v. 277; p. 88.
Rosenfeld, William W., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction cleaning-nozzle. No. 1,348,584; Aug. 3; v. 277; p. 88.
Rosenfeld, William W., New York, N. Y. Suction-cleaner. No. 1,348,585; Aug. 3; v. 277; p. 88.
Rosenfeld, William W., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,348,586; Aug. 3; v. 277; p. 88.
Rosenfeld, William W., White Plains, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction cleaning-nozzle. No. 1,348,587; Aug. 3; v. 277; p. 89.
Rosenthal, Charles, New York, N. Y. Drinking-cup holder for water-bottles. No. 1,349,473; Aug. 10; v. 277; p. 314.
Rosner, Adolph, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Fuel system for internal-combustion engines. No. 1,350,421; Aug. 24; v. 277; p. 617.
Ross, Adam, Buffalo, N. Y. Rewinding-machine. No. 1,348,242; Aug. 3; v. 277; p. 23.
Ross, Allen R., Seattle, Wash. Baking-oven. No. 1,349,436; Aug. 10; v. 277; p. 307.

Ross, Archie C., Atchison, Kans. Awning-fastener. No. 1,349,532; Aug. 10; v. 277; p. 326.
Ross, James S., Westminster, London, England. Producing copper-sulfate solutions from ores. No. 1,350,230; Aug. 17; v. 277; p. 535.
Ross Manufacturing Company, The. (See Ross, William E., assignor.)
Ross, Oscar A., New York, N. Y. Military aeroplane or the like. No. 1,348,105; Aug. 3; v. 277; p. 241.
Ross, William E., assignor to The Ross Manufacturing Company, Cleveland, Ohio. Dressing-tool. No. 1,348,328; Aug. 3; v. 277; p. 38.
Ross, William L., Jersey City, N. J. Tool-clamp. No. 1,350,240; Aug. 17; v. 277; p. 535.
Ross, Percy A. (See Mershon, R. D., and Ross.)
Rostand Manufacturing Company, The. (See Landine, Peter N., assignor.)
Roth, Benjamin W., Allentown, Pa. Vehicle-wheel. No. 1,351,345; Aug. 31; v. 277; p. 860.
Rothschild, Louis. (See Jerebek, Charles, assignor.)
Rottman, George, New York, N. Y. Envelop. No. 1,348,243; Aug. 3; v. 277; p. 23.
Routh, William T., Helena, Ga. Cold-chisel. No. 1,350,241; Aug. 17; v. 277; p. 535.
Routt, Orville L., assignor to Plastoid Products, Incorporated, Los Angeles, Calif. Means for making plasterboard. No. 1,348,898; Aug. 10; v. 277; p. 200.
Rowe, Levi L., Boston, Mass. Faucet. No. 1,350,885; Aug. 24; v. 277; p. 706.
Rowledge, Arthur J., assignor to D. Napier & Son Limited, London, England. Cylinder for internal-combustion engines. No. 1,348,451; Aug. 3; v. 277; p. 63.
Rowley, John T., Pittsburgh, Pa. Ingot-mold. No. 1,351,346; Aug. 31; v. 277; p. 861.
Rownd, Annie K., *et al.* (See Kay, Samuel P., assignor.)
Roy, Alexander, Huntington, N. Y. Bell. No. 1,349,694; Aug. 17; v. 277; p. 431.
Royce, Frederick H., assignor to Rolls-Royce Limited, Derby, England. Electric contact-breaker. No. 1,349,783; Aug. 17; v. 277; p. 448.
Royce, Frederick H., assignor to Rolls-Royce, Limited, Derby, England. Epicyclic gearing. No. 1,350,522; Aug. 24; v. 277; p. 637.
Royer, Edwin C., Philadelphia, Pa., assignor of one-half to B. J. Boyle, Philadelphia, Pa. Expansion-bolt. No. 1,349,437; Aug. 10; v. 277; p. 307.
Royer, Jesse R., Janesville, Iowa. Animal-feeding device. No. 1,350,528; Aug. 24; v. 277; p. 638.
Ruhin, Adolph, assignor to Sieber Products Mfg. Co., St. Louis, Mo. Loose-leaf binder. No. 1,350,422; Aug. 24; v. 277; p. 617.
Ruff, William J., Quincy, Ill. Carbureter. No. 1,349,006; Aug. 10; v. 277; p. 221.
Ruffman, David A., Hyde Park, London, England. Bidet. No. 1,348,518; Aug. 3; v. 277; p. 75.
Rule, Ethan A., Burlington, assignor of one-half to R. F. Rule, Charlotte, Vt. Ice-cutting machine. No. 1,351,131; Aug. 31; v. 277; p. 817.
Rule, Raymond F. (See Rule, Ethan A., assignor.)
Rumsey, Joseph F., Oklahoma, Okla. Food product and making same. No. 1,348,186; Aug. 3; v. 277; p. 10.
Rundall, Frederick H., Fall River, Mass. Tank-lock. No. 1,348,744; Aug. 3; v. 277; p. 118.
Runkel, Albert C., Milwaukee, Wis. Electric-lamp support. No. 1,350,423; Aug. 24; v. 277; p. 618.
Rupp, Alwyn D. (See Rice, J. M., Joseph, and Rupp.)
Russell, Charles L., New York, N. Y. Drill-chuck. No. 1,351,347; Aug. 31; v. 277; p. 861.
Russell, Charles W., Sioux Falls, S. D. Hoop-roller. No. 1,348,745; Aug. 3; v. 277; p. 118.
Rust, William F., Pittsburgh, assignor to The Koppers Company, Philadelphia, Pa. Coke-handling apparatus. No. 1,351,541; Aug. 31; v. 277; p. 899.
Rutenber, Menzo A., Collinsville, Okla. Roller-door equipment. No. 1,350,622; Aug. 24; v. 277; p. 657.
Rutledge, James H., Pittsburg, Kans. Case for folding rulers. No. 1,351,132; Aug. 31; v. 277; p. 817.
Ruttinger, Henry, Buffalo, N. Y. Engine. No. 1,349,856; Aug. 17; v. 277; p. 461.
Ryan, Edward A., *et al.* (See Farnsworth, William W., assignor.)
Ryan, George B. and W. M., Leaky, Tex. Rail-joint. No. 1,350,182; Aug. 17; v. 277; p. 524.
Ryan, John J., Bayonne, N. J. Snow removing and melting machine. No. 1,351,542; Aug. 31; v. 277; p. 899.
Ryan, Lonnie W., assignor to Lindsay Light Company, Chicago, Ill. Recovery of thorium. No. 1,351,489; Aug. 31; v. 277; p. 888.
Ryan, Thomas F. (See Thompson, John T., assignor.)
Ryan, Thomas J., *et al.* (See Cummings, Henry H., assignor.)
Ryan, William M. (See Ryan, George B. and W. M.)
Rydbeck, Patrik S., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Machine for pressing rings having profiled inner surfaces. No. 1,350,568; Aug. 24; v. 277; p. 647.
Sachs, Samuel. (See Blattberg, Nathan, assignor.)
Sacks, George P. (See Sanna, Anthony R., assignor.)
Sadtler, Samuel S., Springfield township, Montgomery county, Pa. Producing alkali-metal hydroxids. No. 1,351,693; Aug. 31; v. 277; p. 928.
Saegesser, Albert W., Granite City, Ill., assignor to Liberty Auto Lock Co., St. Louis, Mo. Ignition-lock. No. 1,348,187; Aug. 3; v. 277; p. 10.
Saegesser, Albert W., Granite City, Ill., assignor to Liberty Auto Lock Co., St. Louis, Mo. Automobile-lock for disk wheels. No. 1,348,060; Aug. 10; v. 277; p. 212.
Safe-Cabinet Company, The. (See Dick, R. H., Wolters, and Sutter, assignors.)
Safety Projector & Film Co. (See Coatsworth, Louis, assignor.)
Sager, J. H., Company. (See Sager, James H., assignor.)
Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper. No. 1,348,961; Aug. 10; v. 277; p. 213.
Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper. No. 1,348,962; Aug. 10; v. 277; p. 213.
Sager, Peter H., Marianna, Fla. Roller-curtain for automobiles. No. 1,351,403; Aug. 31; v. 277; p. 872.
Saget, Jules L., New Orleans, La. Ladder construction. No. 1,350,242; Aug. 17; v. 277; p. 535.
Sague, George. (See Pitt, J. W., and Sague.)
Salas, Francisco J., administrator. (See Staud y Ximenez, Fernando.)
Salop, Steven, Youngstown, Ohio. Book-lock. No. 1,349,857; Aug. 17; v. 277; p. 462.
Salvati, Michele N., deceased, G. Beer and A. Tedesco, executors, assignors to Societa Anonima Stabilimenti Biak, Turin, Italy. Producing metallic alloys containing nickel. No. 1,349,918; Aug. 17; v. 277; p. 473.
Samboll, Gabril, St. Cloud, Minn. Gasolene-funnel. No. 1,350,184; Aug. 17; v. 277; p. 524.
Samplawski, Stanislaw, Bloomfield, N. J. Window-screen. No. 1,349,438; Aug. 10; v. 277; p. 307.
Sampson, George. (See Townill, G. and P., and Sampson.)
Sampson, Samuel, New York, N. Y. Soft-collar holder. No. 1,350,569; Aug. 24; v. 277; p. 647.
Sanborn, Charlotte R., Somerville, Mass. Flower-box. No. 1,351,490; Aug. 31; v. 277; p. 888.
Sanches, Rufo, Newark, N. J. Wedging-block for shipbuilding. No. 1,350,844; Aug. 24; v. 277; p. 699.
Sanders, John F., assignor to F. H. Churchill and O. F. Coshow, Roseburg, Oreg. Manufacturing nitric acid and other nitrogen compounds from atmospheric air. No. 1,349,919; Aug. 17; v. 277; p. 473.
Sanderson, Frank A., *et al.* (See Alsten, Alfred O., assignor.)
Sandman, August G., Baltimore, Md., assignor to W. P. Murphy, Chicago, Ill. Freight-car. No. 1,349,106; Aug. 10; v. 277; p. 241.
Sangamo Electric Company. (See Bard, J. W., and White, assignors.)
Sanna, Anthony R., Washington, D. C., assignor to G. P. Sacks, Bethesda, Md. Ice-cream machinery. No. 1,351,302; Aug. 31; v. 277; p. 851.
Sanseal Corporation, The. (See Pease, H. D., and Cohoe, assignors.)
Santacroce, Agostino, Cleveland, Ohio. Shoe-heel. No. 1,351,543; Aug. 31; v. 277; p. 899.
Santos y Suarez, Isaac, and R. de Arozarena y Mendivo, Habana, Cuba. Internal-combustion machine. No. 1,349,111; Aug. 10; v. 277; p. 242.
Sapery, Louis, Brooklyn, N. Y. Babbitt-metal product and making same. No. 1,351,404; Aug. 31; v. 277; p. 872.
Sargent, Fred W., assignor to Tolman Print, Incorporated, Brockton, Mass. Advertising display device. No. 1,348,899; Aug. 10; v. 277; p. 200.
Sargent, W. H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,350,115; Aug. 17; v. 277; p. 511.
Sargent, William H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,350,116; Aug. 17; v. 277; p. 511.
Sarjent, Erling, Kingfisher, Okla. Engine. No. 1,350,570; Aug. 24; v. 277; p. 647.
Sartakoff, Jack D., New York, N. Y. Automatic water-feed for storage batteries. No. 1,349,297; Aug. 10; v. 277; p. 280.
Sato, Ryuji, New York, N. Y. Toy and game. No. 1,350,082; Aug. 17; v. 277; p. 505.
Sauder, Ora K., Grabill, Ind. Wheel or rim spreader. No. 1,350,524; Aug. 24; v. 277; p. 638.
Sauer, Vonnie O., and W. B. Reeve, Des Moines, Iowa. Folding extension-step. No. 1,349,585; Aug. 17; v. 277; p. 409.
Saunders, Fletcher A., San Pedro, Calif. Concrete cooker. No. 1,349,784; Aug. 17; v. 277; p. 448.
Saurer, Firma Adolph. (See Schlatter, G., and Segin, assignors.)
Sauter, Herman C., New York, N. Y. Spinning-top. No. 1,349,226; Aug. 10; v. 277; p. 265.
Savage, William, Three Rivers, Quebec, Canada. Garbage-incinerator. No. 1,349,785; Aug. 17; v. 277; p. 448.
Saxon, Herman R., Toledo, Ohio. Traffic-signal. No. 1,350,469; Aug. 24; v. 277; p. 627.
Sayford, Frank M., Brooklyn, N. Y. Stencil-card and stenciling monograms. No. 1,351,068; Aug. 31; v. 277; p. 805.
Sayres, Frank E., Thane, Alaska. Wrench. No. 1,350,671; Aug. 24; v. 277; p. 666.
Sayres, Frank E., Thane, Alaska. Monkey-wrench. No. 1,350,672; Aug. 24; v. 277; p. 666.
Scarborough, Henry. (See Steere, Clarence E., assignor.)

Scanlin, Edward, and C. Reath, Philadelphia, Pa. Yarn-feed mechanism for knitting-machines. No. 1,349,298; Aug. 10; v. 277; p. 280.

Scanlon, Stephen, New York, N. Y. Metal lath. No. 1,351,694; Aug. 31; v. 277; p. 928.

Scardone, Joseph, Vineland, N. J. Making torpedoes. No. 1,350,845; Aug. 24; v. 277; p. 699.

Schaefer, Edward J., Hespeler, Ontario, Canada. Phonograph-cabinet. No. 1,349,439; Aug. 10; v. 277; p. 307.

Schafer, Christian E., East Cleveland, Ohio. Cover-retainer. No. 1,348,968; Aug. 10; v. 277; p. 213.

Scharwath, John A., Elizabeth, N. J. Insulating-conduit. No. 1,351,133; Aug. 31; v. 277; p. 817.

Scheib, Peter, assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drill-sharpening mechanism. No. 1,349,169; Aug. 10; v. 277; p. 254.

Schelter, John C., Rochester, N. Y., assignor to Fits-Empire Double Pivot Last Company, Auburn, Me. Shoe-last. No. 1,350,340; Aug. 24; v. 277; p. 601.

Schenmeyer, Frederick W., West Albany, N. Y. Shade and curtain fixture. No. 1,350,623; Aug. 24; v. 277; p. 657.

Schepeler, Herman A., assignor to A/S Mekano, Copenhagen, Denmark. Switch for the closing of an electric circuit for a certain period. No. 1,348,746; Aug. 3; v. 277; p. 118.

Scherf, Wenzel J., Manitowoc, Wis. Fumigating-container. No. 1,351,263; Aug. 31; v. 277; p. 843.

Schilling, Frank D., Emington, Ill. Belt-fastener. No. 1,348,747; Aug. 3; v. 277; p. 118.

Schirra, Julius, assignor to Brown Specialties Company, Pittsburgh, Pa. Screw-thread protector. No. 1,349,789; Aug. 17; v. 277; p. 449.

Schlatter, Gustav, Steinach, and G. Segin, Arbon, Switzerland, assignors to Firma Adolph Saurer, Arbon, Switzerland. Regulating device for watering-carts. No. 1,349,440; Aug. 10; v. 277; p. 307.

Schloerb, Arthur H., New York, N. Y. Spool. No. 1,350,979; Aug. 24; v. 277; p. 725.

Schlueter, Adolph, Oakland, Calif. Display-stand and coin-holder. No. 1,349,786; Aug. 17; v. 277; p. 448.

Schlundt, Christian H., Indianapolis, Ind. Interchangeable steam chest and valve. No. 1,349,787; Aug. 17; v. 277; p. 448.

Schmandt, Jacob E., Harrington, Wash. Bag-sewing mechanism. No. 1,351,134; Aug. 31; v. 277; p. 817.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Waterproof connection for spark-plugs. No. 1,350,470; Aug. 24; v. 277; p. 627.

Schmidt, Henry W., New York, N. Y. Aeronautical apparatus. No. 1,351,069; Aug. 31; v. 277; p. 805.

Schmidt, John, assignor, by mesne assignments, to Howe Rubber Corporation, New Brunswick, N. J. Bead-forming ring for molding pneumatic tires. No. 1,350,117; Aug. 17; v. 277; p. 511.

Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Inking mechanism. No. 1,348,900; Aug. 10; v. 277; p. 201.

Schmitz, Emil F. (See Post, E. A., and Schmitz.)

Schmitz Richard. Chicago, Ill. Clutch. No. 1,351,135; Aug. 31; v. 277; p. 818.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Carriage of large-caliber guns firing from railway-tracks. No. 1,349,533; Aug. 10; v. 277; p. 326.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Multiple-disk brake. No. 1,351,006; Aug. 24; v. 277; p. 730.

Schneider, Herman T., Garner, Iowa. Cleaning device. No. 1,348,748; Aug. 3; v. 277; p. 119.

Schneider, Jacques, Solothurn, E. Hürlimann, Zuchwil, and F. Billon, assignors to the Firm Scintilla, Solothurn, Switzerland. High-tension distributers for magneto-electric ignition-machines. No. 1,349,299; Aug. 10; v. 277; p. 280.

Schneider, Ralph F., assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,348,749; Aug. 3; v. 277; p. 119.

Schnurrenberger, Emil, Paterson, N. J. Dyeing-machine. No. 1,350,740; Aug. 24; v. 277; p. 680.

Scholes, Peter, Hyde, England. Self-acting warp-tension-regulating motion for looms for weaving. No. 1,350,943; Aug. 24; v. 277; p. 718.

Scholz, Frank J., assignor of one-half to R. W. Scholz, Helena, Mont. Single-delivery match-box. No. 1,350,886; Aug. 24; v. 277; p. 707.

Scholz, Raymond W. (See Scholz, Frank J., assignor.)

Schreiber, Edward A., assignor to Vapor Car Heating Company, Chicago, Ill. Hose-coupling. No. 1,350,083; Aug. 17; v. 277; p. 505.

Schroeder, John, Davenport, Iowa. Motor. No. 1,351,695; Aug. 31; v. 277; p. 929.

Schryver, Fremont. (See Billings, W. T., and Schryver.)

Schuh, Charles H., New York, N. Y. Clamp. No. 1,350,084; Aug. 17; v. 277; p. 505.

Schuch, Louis E., Cincinnati, Ohio. Steam-condenser and oil-separator for steam-driven vehicles. No. 1,349,007; Aug. 10; v. 277; p. 221.

Schuchart, Paul A. (See Brown, G. G., and Schuchart.)

Schuler, William A., New York, N. Y. Fastener. No. 1,348,666; Aug. 3; v. 277; p. 104.

Schumacher, John, Los Angeles, Calif. Machine for making plaster-board. No. 1,341,264; Aug. 31; v. 277; p. 843.

Schurch, Jacob, assignor to Imperial Electric Company, Holtville, Calif. Power-transmission system. No. 1,350,424; Aug. 24; v. 277; p. 618.

Schuster, Francis X., Raber, Mich. Choke attachment for shotguns. No. 1,348,750; Aug. 3; v. 277; p. 119.

Schwabacher, Samuel I., Seattle, Wash. Spectacles. No. 1,351,491; Aug. 31; v. 277; p. 889.

Schwartz, A. Charles. (See Grabau, Hans E., assignor.)

Schwartz, David S., St. Paul, Minn. Brake-head. No. 1,349,524; Aug. 10; v. 277; p. 326.

Schwartz, John G., New York, N. Y. Safety automobile-lock. No. 1,350,741; Aug. 24; v. 277; p. 680.

Schwartz, Walter M., and E. B. Ayres, assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Fan for drying-machines. No. 1,351,696; Aug. 31; v. 277; p. 929.

Schwarz, Emerich R., and A. J. Martenay, Chicago, Ill. Tool-rod. No. 1,350,425; Aug. 24; v. 277; p. 618.

Schwidetzky, Oscar O. R., Hasbrouck Heights, N. J., assignor to Beckton, Dickinson & Co., Rutherford, N. J. Syringe. No. 1,349,474; Aug. 10; v. 277; p. 314.

Scintilla, Firm. (See Hurlimann, Ernst, assignor.)

Scintilla, Firm. (See Schneider, J., Hürlimann, and Billon, assignors.)

Scott, Charles R., Wyandotte, Okla. Automobile-muffs. No. 1,351,308; Aug. 31; v. 277; p. 852.

Scott, George W., assignor of one-half to W. R. Horton, Cleveland, Ohio. Side curtain for vehicles. No. 1,350,471; Aug. 24; v. 277; p. 627.

Scott, Horace J., Hill City, Minn. Pail. No. 1,349,008; Aug. 10; v. 277; p. 222.

Scroggin, Charles. (See Stanfield, G. A., and Scroggin.)

Scroggins, James L., Bennington, Okla. Street-car annunciator. No. 1,350,038; Aug. 17; v. 277; p. 496.

Scully, George H., assignor, by mesne assignments, to Automotive Tractor Corporation of America, Kansas City, Mo. Auto-driven tractor. No. 1,348,324; Aug. 3; v. 277; p. 58.

Scully, John J., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Winding mechanism for spring-motors. No. 1,351,405; Aug. 31; v. 277; p. 872.

Seailles, Jean C., assignor to Societe Des Vitrages A. M. L. Societe Anonyme, Paris, France. Hermetic glass covering. No. 1,351,492; Aug. 31; v. 277; p. 889.

Sealy, Ester M., Fort Shafter, Hawaii. Undercorer for typewriters. No. 1,349,107; Aug. 10; v. 277; p. 241.

Seaman, Joseph B., *et al.* (See Bartlett, Percy H., assignor.)

Searby, William, Puunene, Hawaii. Rotary cane-cutter. No. 1,348,751; Aug. 3; v. 277; p. 119.

Searle, Charles J. (See Billings, Harry E., assignor.)

Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Saddle and head supporting mechanism for drilling-machines. No. 1,350,525; Aug. 24; v. 277; p. 638.

Seaton, Elvin T., Danbury, Iowa. Hay-loader. No. 1,350,887; Aug. 24; v. 277; p. 707.

Sebastian, Alphonse A. and D. R. Capes, assignors to A.-C. Manufacturing Company, Chicago, Ill. Motor-car rear-wheel-brake mechanism. No. 1,348,452; Aug. 3; v. 277; p. 63.

Sebring, Frank A., and F. Strobl, Sebring, Ohio. Filling device. No. 1,350,673; Aug. 24; v. 277; p. 666.

Seeger, Erwin W., Milwaukee, Wis., assignor to Seeger Manufacturing Company, Chicago, Ill. Stove. No. 1,348,588; Aug. 3; v. 277; p. 89.

Seeger, Erwin W., Milwaukee, Wis. Furnace-regulator. No. 1,348,589; Aug. 3; v. 277; p. 89.

Seeger Manufacturing Company. (See Seeger, Erwin W., assignor.)

Seely, Thomas H., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,348,901; Aug. 10; v. 277; p. 201.

Seely, Thomas H., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Speed-changing mechanism. No. 1,348,902; Aug. 10; v. 277; p. 201.

Seery, Peter H., Newark, N. J. Bracing-fixture. No. 1,350,674; Aug. 24; v. 277; p. 667.

Segin, Gustav. (See Schlatter, G., and Segin.)

Seiniger, David, Middletown, N. Y. Oil-burning heater. No. 1,349,475; Aug. 10; v. 277; p. 314.

Seiss, George J., Toledo, Ohio. Mechanically-actuated horn. No. 1,348,377; Aug. 3; v. 277; p. 49.

Seitz, Walter T., Pittsburgh, Pa. Marking device. No. 1,351,070; Aug. 31; v. 277; p. 805.

Select Service Company. (See Hanson, Harry, assignor.)

Self Feeding Dauber Co., The. (See Marchione, Lewis, assignor.)

Sellers, Arthur E., Huddersfield, England. Cloth cutting or shearing machine. No. 1,349,788; Aug. 17; v. 277; p. 449.

Sellers, Paul T., Nicholasville, Ky. Corn-replanter. No. 1,349,920; Aug. 17; v. 277; p. 478.

Selwa, Louis. (See Selwa, Stanley, assignor.)

Selwa, Stanley, assignor of one-fourth to L. Selwa, Detroit, Mich. Vapor-stove. No. 1,348,964; Aug. 10; v. 277; p. 213.

Semet-Solvay Company. (See Torrey, Bates, Jr., assignor.)

Seng, Wendelin P., Chicago, Ill. Electrical control system for automobiles. No. 1,350,426; Aug. 24; v. 277; p. 618.

Senyk, Toronto, Ontario, Canada. Block puzzle. No. 1,350,089; Aug. 17; v. 277; p. 496.

Setzer, Chester G. (See Foster, Harry C., assignor.)

Severy, Melvin L., Los Angeles, Calif. Orthopedic device. No. 1,350,944; Aug. 24; v. 277; p. 718.

Shackleford, Alfred E., and G. A. Franklin, Calgary, Alberta, Canada. Valve. No. 1,350,040; Aug. 17; v. 277; p. 497.

Shaffer, John M., *et al.* (See Dixon, J., and Shaffer.)

Shaffer, Ralph R. (See Brown, C. S., and Shaffer.)

Sharpless, Philip T., St. Davids, Pa. Separating substances from liquids. No. 1,351,265; Aug. 31; v. 277; p. 843.

Sharpneck, Matthew C., and C. A. Crisman, assignors of one-third to A. E. Agee, Omaha, Nebr. Driving-gear for automobiles. No. 1,349,695; Aug. 17; v. 277; p. 481.

Shaw, Roy E., Spearfish, S. D. Extensible electrical fixture. No. 1,348,752; Aug. 3; v. 277; p. 119.

Shaw, Thomas, Woonsocket, R. I. Micrometer-gage. No. 1,350,185; Aug. 17; v. 277; p. 525.

Shea, David J., Marianna, Ark. Spring-wheel. No. 1,348,590; Aug. 3; v. 277; p. 89.

Shean, Thomas P., Chicago, Ill. Well-boring apparatus. No. 1,348,325; Aug. 3; v. 277; p. 39.

Sheasley, Charles H., assignor to Franklin Valveless Engine Company, Franklin, Pa. Starting-port for valveless two-cycle internal-combustion engines. No. 1,349,630; Aug. 17; v. 277; p. 418.

Sheboygan Couch Company. (See Meves, C. W., and Herrmann, assignors.)

Sheehy, William E., East Boston, Mass. Shoe-polisher. No. 1,351,136; Aug. 31; v. 277; p. 818.

Sheen, Milton R., assignor to Tunnel Machine Manufacturing & Engineering Company, Philadelphia, Pa. Machine for building sewers. No. 1,351,187; Aug. 31; v. 277; p. 818.

Sheldon, Samuel B., Duluth, Minn. Gas-producer. No. 1,350,472; Aug. 24; v. 277; p. 628.

Sheldon, Samuel B., Duluth, Minn. Gas-producer arrangement. No. 1,350,473; Aug. 24; v. 277; p. 628.

Sheldon, Samuel B., Duluth, Minn. Gas-producer. No. 1,350,474; Aug. 24; v. 277; p. 628.

Sheldon, Samuel B., Duluth, Minn. Gas-producer. No. 1,350,475; Aug. 24; v. 277; p. 628.

Shell Company. (See Trumble, Milon J., assignor.)

Shelton, Clough W., Floyd county, Ga. Nut-lock. No. 1,349,696; Aug. 17; v. 277; p. 481.

Shelton, John B., San Francisco, Calif. Adjustable deck-support for cars. No. 1,349,735; Aug. 17; v. 277; p. 439.

Shelton, Walter M., South Richmond, Va. Closure releasing means for jars. No. 1,351,304; Aug. 31; v. 277; p. 852.

Shelton, William G., New York, N. Y. Phonograph-motor. No. 1,350,571; Aug. 24; v. 277; p. 647.

Shenk, Robert R. (See Smith, A., and Shenk.)

Shepard, John, Pittsburgh, Pa. Rail-joint. No. 1,348,244; Aug. 3; v. 277; p. 23.

Shephard, Samuel T., Albany, N. Y. Display-stand. No. 1,351,007; Aug. 24; v. 277; p. 730.

Shepherd, Harry. (See Cordall, Richard R., assignor.)

Sheppard, Elisha T., Stonega, Va. Adjustable shade and curtain-pole supporting bracket. No. 1,351,697; Aug. 31; v. 277; p. 929.

Sheppard, Joel F., 2d, and W. D. Fletcher, Dover, N. H. Woodworking-machine. No. 1,350,341; Aug. 24; v. 277; p. 601.

Sherman, Lawrence F., trustee. (See Prud'homme, Hippolyte M., assignor.)

Sherrod, William H., Seattle, Wash. Soil-pulverizer. No. 1,349,858; Aug. 17; v. 277; p. 462.

Shigon, Nathan A., New York, N. Y. Skiascope. No. 1,351,220; Aug. 31; v. 277; p. 835.

Shigon, Nathan A., New York, N. Y. Optical instrument. No. 1,351,221; Aug. 31; v. 277; p. 835.

Shiloff, Gennady G., New York, N. Y. Mechanical burglar-alarm. No. 1,348,378; Aug. 3; v. 277; p. 49.

Shimer, Elmer S., assignor to Samuel J. Shimer & Sons, Inc., Milton, Pa. Cutter-head. No. 1,348,753; Aug. 3; v. 277; p. 119.

Shimer, Samuel J., & Sons. (See Shimer, Elmer S., assignor.)

Shippen, Charles S., Tipperary, Wyo. Wire-stretcher. No. 1,349,108; Aug. 10; v. 277; p. 241.

Shippert, Warren A., Chicago, Ill. Milking-machine for cows. No. 1,349,441; Aug. 10; v. 277; p. 308.

Shippey, William M., *et al.* (See Kirkpatrick, Monroe C., assignor.)

Shkor, John, Sparrows Point, Md. Combination chair and sofa. No. 1,349,227; Aug. 10; v. 277; p. 265.

Sholl, Max S., Chicago, Ill. Deposit and collection receptacle. No. 1,350,742; Aug. 24; v. 277; p. 680.

Short, Charley, Courtney, Mo. Flag-staff and support therefor. No. 1,349,921; Aug. 17; v. 277; p. 473.

Shotter, George F. (See Murray, E. T. E., and Shotter.)

Shrader, Ethel, Salina, Kans. Dress-shield supporter. No. 1,348,754; Aug. 3; v. 277; p. 120.

Shukites, Mike, Jr., Johnston City, Ill. Trolley control. No. 1,350,243; Aug. 17; v. 277; p. 536.

Shumaker, Louis W. (See Delany, P. B., and Shumaker, assignors.)

Shuman, C. S., and S. S. Hansen, assignors to Vacuum Muffler Corporation of America, New York, N. Y., a Corporation of New York. Muffler for steam and gas engines. No. 1,351,698; Aug. 31; v. 277; p. 929.

Shute, John W., Bishop, Calif. Rim contractor or expander. No. 1,351,406; Aug. 31; v. 277; p. 872.

Shutterly, Acallious E., Indianapolis, Ind. Measuring spoon or dipper. No. 1,348,591; Aug. 3; v. 277; p. 90.

Sidon, Maximilian, Bridgeport, Conn., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connecting device. No. 1,351,191; Aug. 31; v. 277; p. 829.

Sieber Products Mfg. Co. (See Rubin, Adolph, assignor.)

Siegel, Edward, Elmhurst, N. Y. Vehicle-route-indicator device. No. 1,350,244; Aug. 17; v. 277; p. 536.

Siegel, Samuel, Brooklyn, assignor to Atlantic Metal Hose Company, Inc., New York, N. Y. Method and means for connecting pipe-couplings. No. 1,349,586; Aug. 17; v. 277; p. 409.

Sievart, Edward, Manitowoc, Wis. Marine propeller. No. 1,349,981; Aug. 17; v. 277; p. 485.

Sievart, Edward, Manitowoc, Wis. Heating apparatus. No. 1,349,982; Aug. 17; v. 277; p. 486.

Siewenie, Philip, Chicago, Ill. Calendar-hanger and the like. No. 1,348,245; Aug. 3; v. 277; p. 23.

Sigmond, Charles A., Freeport, N. Y. Ice-cream-can tongs. No. 1,351,493; Aug. 31; v. 277; p. 889.

Signature Company. (See Crompton, Frank E., assignor.)

Silberrad, Oswald, Buckhurst Hill, England. Propellant explosive. No. 1,349,983; Aug. 17; v. 277; p. 486.

Silberstang, Jacob, New York, N. Y. Phonograph-needle-sharpening attachment. No. 1,349,009; Aug. 10; v. 277; p. 222.

Silnes, Sigvart, Halma, Minn. Coupling device. No. 1,349,300; Aug. 10; v. 277; p. 280.

Silverman, Alexander, and R. H. Johnson, Pittsburgh, Pa. Recording device. No. 1,351,071; Aug. 31; v. 277; p. 805.

Simmen, Paul J., Buffalo, N. Y. Automatic speed-controller for moving vehicles. No. 1,350,476; Aug. 24; v. 277; p. 629.

Simmons, John E., Portland, Oreg. Spring-support for vehicle-bodies. No. 1,349,170; Aug. 10; v. 277; p. 254.

Simmons, William F., St. Louis, Mo. Combined can opener, cover, and dispenser. No. 1,348,519; Aug. 3; v. 277; p. 75.

Simms, Amos H., Chicago, Ill. Railway safety device. No. 1,349,984; Aug. 17; v. 277; p. 486.

Simons, Henry C., Odebolt, Iowa. Disk-sharpening device. No. 1,350,888; Aug. 24; v. 277; p. 707.

Simpson, Arthur M. (See Simpson, George N. and A. M.)

Simpson, David J., Chicago, Ill., assignor to N. S. Amstutz, Valparaiso, Ind. Steel-treatment-transferring system and apparatus therefor. No. 1,348,903; Aug. 10; v. 277; p. 201.

Simpson, David J., Chicago, Ill., assignor to N. S. Amstuts, Valparaiso, Ind. Steel treatment. No. 1,351,494; Aug. 31; v. 277; p. 889.

Simpson, David J., Chicago, Ill., assignor to N. S. Amstuts, Valparaiso, Ind. Steel-treatment apparatus. No. 1,351,495; Aug. 31; v. 277; p. 889.

Simpson, George N., Chicago, Ill. Liquid car control. No. 1,349,387; Aug. 10; v. 277; p. 297.

Simpson, George N. and A. M., Chicago, Ill. Car control. No. 1,349,388; Aug. 10; v. 277; p. 297.

Simpson, Judson L., Kennebunk, Me., assignor of one-half to A. A. Wheeler, Somerville, Mass. Sugar-dispenser. No. 1,349,228; Aug. 10; v. 277; p. 265.

Simpson, Robert H., Berkeley, Calif. Tire-valve cap. No. 1,349,922; Aug. 17; v. 277; p. 473.

Simpson, Sumner, assignor to The Raybestos Company, Bridgeport, Conn. Clutch-facing and making same. No. 1,348,755; Aug. 3; v. 277; p. 120.

Simpson, Thomas H., Centerville, Iowa. Automobile-lock. No. 1,348,453; Aug. 3; v. 277; p. 63.

Simpson, William L., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa. Double-riveting machine. No. 1,351,444; Aug. 31; v. 277; p. 880.

Simpson, William M., assignor of one-half to W. L. Sun, Portland, Oreg. Washing-machine. No. 1,351,008; Aug. 24; v. 277; p. 730.

Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)

Singer Manufacturing Company, The. (See Crockett, William P., assignor.)

Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)

Singer Manufacturing Company. (See Harmon, Frank L., assignor.) (Reissue.)

Singer Manufacturing Company, The. (See Kopf, E. A., and Hemleb, assignors.)

Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Sheet-metal end structure for railway-cars. No. 1,349,442; Aug. 10; v. 277; p. 308.

Sitkiewitz, Louis H. (See Blank, M. R., and Sitkiewitz.)

Skinner Alva L. (See Denton, J., and Skinner.)

Skinner Engine Company. (See Wadsworth, Frank L. O., assignor.)

Skinner, Lewis B., Denver, Colo. Heat-regenerator. No. 1,350,267; Aug. 17; v. 277; p. 540.

Skinner, Lewis B., Denver, Colo. Protecting metal pipes exposed to high temperatures. No. 1,350,268; Aug. 17; v. 277; p. 541.

Skinner, Lewis B., Denver, Colo. Treating ores. No. 1,350,286; Aug. 17; v. 277; p. 544.

Skinner, Onias C., Montrose, Colo. Gearless rotary clutch and transmission mechanism. No. 1,349,229; Aug. 10; v. 277; p. 266.

Skoglund, Gustaf, Minneapolis, Minn. Artificial limb. No. 1,350,743; Aug. 24; v. 277; p. 681.
Skolnik, Max, Minneapolis, Minn. Child's vehicle. No. 1,348,326; Aug. 3; v. 277; p. 39.
Skubiln, Charles P., assignor to W. A. Adams, Detroit, Mich. Trolley-wheel. No. 1,349,230; Aug. 10; v. 277; p. 266.
Slate, J. W., *et al.* (See Lundy, Lundy S, assignor.)
Slaughter, Osceola C., Omaha, Nebr. Lock for steering mechanisms. No. 1,350,526; Aug. 24; v. 277; p. 638.
Sloan, Sara E., Denver, Colo. One-piece sleeve and waist. No. 1,348,327; Aug. 3; v. 277; p. 39.
Sloneker, Samuel S. (See Formway, V. L., and Sloneker.)
Small, James W., Chicago, Ill. Bottle-capper. No. 1,350,477; Aug. 24; v. 277; p. 629.
Smallbone, Harry E., assignor to King Sewing Machine Company, Buffalo, N. Y. Mounting for shuttle-operating levers. No. 1,348,965; Aug. 10; v. 277; p. 213.
Smarch, Frank, Anaconda, Mont. Protector for trommel-spokes. No. 1,351,699; Aug. 31; v. 277; p. 929.
Smith, Albert G., and B. E. Broadwell, Niagara Falls, N. Y. Furnace construction. No. 1,351,305; Aug. 31; v. 277; p. 882.
Smith, Andrew, and R. R. Shenk, Chicago, Ill. Game-table. No. 1,349,587; Aug. 17; v. 277; p. 410.
Smith, Charles, Providence, R. I. Automatic machine for making frames for wreaths. No. 1,351,009; Aug. 24; v. 277; p. 730.
Smith, Christian N., Elgin, Ill. Safety plate-holder for electrotype and stereotype shaving machines. No. 1,349,736; Aug. 17; v. 277; p. 439.
Smith, Daniel D., Valdosta, Ga. Insect-destroyer. No. 1,351,407; Aug. 31; v. 297; p. 873.
Smith, David C., Schenectady, N. Y. Paint. No. 1,348,904; Aug. 10; v. 277; p. 202.
Smith, Floyd C. (See Bissell, C. H., and Smith.)
Smith Gas Engineering Company, The. (See Smith, Harry F., assignor.)
Smith, George H., Providence, assignor to C. D. Kenney, Cranston, R. I. Curtain-support. No. 1,350,846; Aug. 24; v. 277; p. 700.
Smith, Gerard W., assignor to Oneida Community, Limited, Oneida, N. Y. Jaw-trap. No. 1,349,697; Aug. 17; v. 277; p. 431.
Smith, Harry F., Lexington, Ohio, assignor to The Smith Gas Engineering Company. System of gas control. No. 1,348,379; Aug. 3; v. 277; p. 49.
Smith, Harry F., Dayton, Ohio, assignor to The Smith Gas Engineering Company. Apparatus for purifying gases. No. 1,348,966; Aug. 10; v. 277; p. 214.
Smith, Harry J., Lakewood, Ohio. Automatic belt-tightener. No. 1,348,905; Aug. 10; v. 277; p. 202.
Smith, Harry M., Daly City, assignor to The Colmar Burner Company, San Francisco, Calif. Gas-generator. No. 1,349,923; Aug. 17; v. 277; p. 473.
Smith, Henry W., Washington, D. C. Cone-sack. No. 1,349,535; Aug. 10; v. 277; p. 326.
Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway-mail delivery. No. 1,348,380; Aug. 3; v. 277; p. 49.
Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway-mail delivery. No. 1,348,381; Aug. 3; v. 277; p. 50.
Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Welding apparatus. No. 1,350,572; Aug. 24; v. 277; p. 648.
Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Means for holding formed metal pieces while they are being electrically welded. No. 1,351,445; Aug. 31; v. 277; p. 880.
Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Combination welding-machine. No. 1,351,446; Aug. 31; v. 277; p. 880.
Smith, Herschel C. (See Belt, W. M., and Smith.)
Smith, James H., Salisbury Mills, N. Y. Lifting-tongs. No. 1,350,675; Aug. 24; v. 277; p. 667.
Smith, James R., Mechanicsville, N. Y. Fuel-burner. No. 1,349,790; Aug. 17; v. 277; p. 449.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-Machine. No. 1,349,109; Aug. 10; v. 277; p. 242.
Smith, John T., Hopkins, Minn. Attachment for threshing-machines. No. 1,350,847; Aug. 24; v. 277; p. 700.
Smith, Louis, Hillyard, Wash. Exposure-table. No. 1,348,382; Aug. 3; v. 277; p. 50.
Smith, Marie, *et al.* (See Holmes, Anderson M., assignor.)
Smith, Paul E., Henrietta, Tex. Fire-engine. No. 1,351,700; Aug. 31; v. 277; p. 930.
Smith, Percy, Highland Park, Mich. Vehicle-spring. No. 1,351,306; Aug. 31; v. 277; p. 852.
Smith, Prince, Jr., Keighley, England. Doffing mechanism for fiber spinning, twisting, doubling, and analogous machines. No. 1,351,701; Aug. 31; v. 277; p. 930.
Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Control mechanism for tension-operated devices. No. 1,348,756; Aug. 3; v. 277; p. 120.
Smith, Raymond D., Milton, assignor to Tremont Products Company, Boston, Mass. Thermostatically-controlled device. No. 1,350,573; Aug. 24; v. 277; p. 648.
Smith, Raymond D., Milton, assignor to Tremont Products Company, Boston, Mass. Reciprocative actuating mechanism. No. 1,350,574; Aug. 24; v. 277; p. 648.
Smith, Raymond D., Milton, assignor to Tremont Products Company, Boston, Mass. Selective actuating mechanism. No. 1,350,575; Aug. 24; v. 277; p. 648.
Smith, Robert B., Stoughton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Eyeleting-Machine. No. 1,351,138; Aug. 31; v. 277; p. 818.
Smith, Seth R., Los Angeles, Calif. Tool-box. No. 1,349,859; Aug. 17; v. 277; p. 462.
Smith, T. L., Company, The. (See Brackenbury, Edward W., assignor.)
Smith, Thomas K., Tulsa, Okla. Apparatus for separating gases and vapors from liquids. No. 1,350,576; Aug. 24; v. 277; p. 649.
Smith, Wilfred B., Hobart, Tasmania, Australia. Pedimotive propelling-gear for bicycles, velocipedes, and the like. No. 1,349,588; Aug. 17; v. 277; p. 410.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for percussive tool. No. 1,350,342; Aug. 24; v. 277; p. 601.
Smith, William H., East Cleveland, Ohio. Heat-treating box. No. 1,350,427; Aug. 24; v. 277; p. 618.
Smith, William H., Picher, Okla. Valve-gear for steam-engines. No. 1,351,702; Aug. 31; v. 277; p. 930.
Smith, William I., Oak Park, and J. R. Irvin, Chicago, Ill. Game. No. 1,348,520; Aug. 3; v. 277; p. 75.
Smith, William N. (See Webb, Arthur B., assignor.)
Smith, Winfield D., assignor of one-half to H. F. Hayes, Jr., Newark, N. J. Occupant-propelled vehicle. No. 1,350,577; Aug. 24; v. 277; p. 649.
Sneddon, John, McKeesport, Pa., assignor to National Tube Company, Pittsburgh, Pa. Method of and apparatus for making butt-weld pipe. No. 1,351,348; Aug. 31; v. 277; p. 861.
Snidrowski, Albert M., United States Army. Tie. No. 1,351,349; Aug. 31; v. 277; p. 861.
Snodgrass, William. (See Litsinger, L. P., Conerty, and Snodgrass.)
Snyder, Charles F., Pittsburgh, Pa. Connection or joint and making same. No. 1,348,667; Aug. 3; v. 277; p. 104.
Snyder, William O., Veedersburg, Ind. Toothbrush and paste case. No. 1,349,110; Aug. 10; v. 277; p. 242.
Societa Anonima Stabilimenti Biak. (See Salvati, Michele N., assignor.)
Societa Anonima Stabilimenti Biak. (See Tedesco, Arrigo, assignor.)
Societe Anonyme Des Automobiles & Cycles Peugeot. (See Glauque, Pierre L. A., assignor.)
Societe Ch. M. Stein & Cie. (See Stein, Charles, assignor.)
Societe d'Etudes Chimiques pour l'Industrie. (See Darier, G., and Goudet, assignors.)
Societe Des Moteurs Salmson (Systeme Canton-Unne.) (See Postel-Vinay, Pierre J. R., assignor.)
Societe des Navires en Ciment Armé. (See Freyssinet, Eugène, assignor.)
Societe Des Vitrages A. M. L. Societe Anonyme. (See Seailles, Jean C., assignor.)
Society of Chemical Industry in Basle. (See Hartmann, M., and Wybert, assignors.)
Solar Illuminating Co. (See Lazerson, Abraham, assignor.)
Solberg, Isaac, Rice Lake, Wis. Ground-anchor. No. 1,349,476; Aug. 10; v. 277; p. 314.
Solie, Clarence, Stanley, Wis. Circuit-closer for automobile-signal devices. No. 1,348,454; Aug. 3; v. 277; p 63.
Solvay Process Company, The. (See Sundstrom, Carl, assignor.)
Somers, Charles E., assignor to B-V Milking Machine Company, Milwaukee, Wis. Vacuum Milk-Releaser Chamber. No. 1,351,192; Aug. 31; v. 277; p. 829.
Somers, William A., assignor to The Mount Carmel Brass Foundry Works, Inc., Hamden, Conn. Handle. No. 1,348,967; Aug. 10; v. 277; p. 214.
Somerville, Albert A., assignor to New York Belting & Packing Company, Flushing, N. Y. Packing material. No. 1,349,737; Aug. 17; v. 277; p. 439.
Sonn, Sidney H., New York, N. Y. Spacer for display boxes or cartons. No. 1,350,744; Aug. 24; v. 277; p. 681.
Sonneborn, Charles, West Pittsburgh, Pa., assignor to Pressed Metal Radiator Company. Making radiating-casings. No. 1,348,328; Aug. 3; v. 277; p. 39.
Sonneveld, Jan, Schela Gura Ocnitsei, near Targoviste, Roumania. Apparatus for extracting liquids or gases. No. 1,351,139; Aug. 31; v. 277; p. 818.
Sonora Phonograph Corporation. (See Farb, Pincus, assignor.)
Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
Soper, Herbert E., London, England. Means for compiling tabular and statistical data. No. 1,351,692; Aug. 31; v. 277; p. 928.
Sorensen, John, Chicago, Ill. Wall-bed. No. 1,349,738; Aug. 17; v. 277; p. 439.
Sörensen, Marius M., Vallerød, Denmark. Pad for soleplaying machines. No. 1,349,301; Aug. 10; v. 277; p. 280.
Sorensen, Otto A., New York, N. Y. Self-opening die. No. 1,351,447; Aug. 31; v. 277; p. 880.
Sosa, Joseph, New York, N. Y. Spring-catch device. No. 1,351,072; Aug. 31; v. 277; p. 806.
South Metropolitan Gas Company. (See Kirby, William, assignor.)

South, Thomas W., assignor of one-half to R. A. Gilbertson, De Kalb, Ill. Time-controlled mechanism for operating electric switches. No. 1,350,389; Aug. 24; v. 277; p. 611.
Southern Electric Steel Company. (See Keyser, Joseph N. M., assignor.)
Southern Implement Manufacturing Company. (See Harrington, John L., assignor.)
Southey, Alfred W., assignor to Southey Gas Producers Limited, London, England. Production of gaseous fuel for internal-combustion engines. No. 1,351,193; Aug. 31; v. 277; p. 829.
Southey Gas Producers Limited. (See Southey, Alfred W., assignor.)
Southwick, William S., Clinton, Mass., assignor, by mesne assignments, to Wickwire Spencer Steel Corporation. Interposed fabric-machine. No. 1,351,350; Aug. 31; v. 277; p. 861.
Spangler, Frederick W., assignor to The Mantle Lamp Company of America, Chicago, Ill. Wick cleaner and shaper. No. 1,349,010; Aug. 10; v. 277; p. 222.
Spanier, Waldemar H., Devils Lake, N. D. Wrench. No. 1,349,631; Aug. 17; v. 277; p. 418.
Sparks, Charles F., Alton, Ill. Bag-filling machine. No. 1,348,602; Aug. 3; v. 277; p. 90.
Specialty Manufacturing Company. (See Kaiser, Alfred E., assignor.)
Speers, James W. (See Beck, O. F., Speers, and Jones.)
Speight, Henry C., Bradford, England. Doffing mechanism for spinning-frames and the like. No. 1,350,578; Aug. 24; v. 277; p. 649.
Spelling, Thomas C., New York, N. Y. Receptacle. No. 1,350,118; Aug. 17; v. 277; p. 511.
Spencer, Guilford L., Cambridge, Mass. Drier. No. 1,348,757; Aug. 3; v. 277; p. 120.
Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Rotary air-pump. No. 1,350,745; Aug. 24; v. 277; p. 681.
Spencer, Robert H., Turlock, Calif. Railway-tie. No. 1,349,171; Aug. 10; v. 277; p. 254.
Spencer Turbine Company, The. See Spencer, Ira H., assignor.)
Sperbeck, Lorenso, *et al.* (See Mapson, Robert L., assignor.)
Spery, Philmore F., Chicago, Ill. Radiator for internal-combustion engines. No. 1,349,011; Aug. 10; v. 277; p. 222.
Spicer, George, London, and E. C. S. Croxson, Southend-on-Sea, England. Vaporizer for internal-combustion engines. No. 1,348,455; Aug. 3; v. 277; p. 64.
Spiegel, Edward, Brooklyn, N. Y. Automobile-top. No. 1,348,593; Aug. 3; v. 277; p. 90.
Spiess, Georg, Leipzig-Reudnitz, Germany. Sheet-feeding apparatus for paper-sorting machines. No. 1,348,246; Aug. 3; v. 277; p. 23.
Spillmann, Heinrich, Zurich, Switzerland. Lathe-chuck. No. 1,350,746; Aug. 24; v. 277; p. 681.
Spitz, Charles, New York, N. Y. Roasting-pan. No. 1,349,302; Aug. 10; v. 277; p. 280.
Spitzfaden, Bernhard, Brooklyn, N. Y. Door-hanger. No. 1,348,758; Aug. 3; v. 277; p. 121.
Splitdorf Electrical Company. (See Mason, Carl T., assignor.)
Splitdorf Electrical Company. (See Van Deventer, Harly, R., assignor.)
Spokane Mail Equipment Company. (See Smith, Herbert E., assignor.)
Sponenburg, Hiram H., Gurnee, assignor, by mesne assignments, to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,350,676; Aug. 24; v. 277; p. 667.
Sponenburg, Hiram H., Gurnee, assignor, by mesne assignments, to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,350,677; Aug. 24; v. 277; p. 667.
Spooner, Charles H., Charlestown, N. H. Jar-closure. No. 1,351,496; Aug. 31; v. 277; p. 890.
Spotswood, Frank D. (See Mason, George C., assignor.)
Sprague Canning Machinery Co. (See Lowe, Harry W., assignor.)
Spriggs, William L., Bixby, Okla. Eaves-trough screen. No. 1,351,703; Aug. 31; v. 277; p. 930.
Squire, Gayle L., Hastings, Fla. Chair. No. 1,350,041; Aug. 17; v. 277; p. 497.
St. Onge, Amasa. (See Bahan, G. F., and St. Onge.)
Stabell, Joseph F., Buffalo, N. Y. Apparatus for use in road-bed construction. No. 1,340,012; Aug. 10; v. 277; p. 222.
Stacey, Cyril F., London, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Treadle mechanism. No. 1,348,188; Aug. 3; v. 277; p. 11.
Stachowski, Joseph F., New York, N. Y. Bearing. No. 1,350,245; Aug. 17; v. 277; p. 536.
Stadig, Walter L., St. Francis, Me. Rotary snow-plow and snow-loader. No. 1,348,883; Aug. 3; v. 277; p. 50.
Stadler, John, Shawinigan Falls, Quebec, Canada. Suspension equalising device for revolving drums. No. 1,351,497; Aug. 31; v. 277; p. 890.
Stafford, Charles M., Minneapolis, Minn. Portable house. No. 1,350,478; Aug. 24; v. 277; p. 629.
Stafford, Lewis F., Chicago, Ill. Bumper for vehicles. No. 1,348,329; Aug. 3; v. 277; p. 39.
Staley, Joseph H., Columbus, Ind. Auto-piston clamping-vise. No. 1,349,532; Aug. 17; v. 277; p. 418.
Staley, Joseph H., Columbus, Ohio. Radiator-stand. No. 1,349,633; Aug. 17; v. 277; p. 418.
Staley, Joseph H., Columbus, Ind. Axle-stand. No. 1,350,119; Aug. 17; v. 277; p. 512.
Staley, Joseph H., Columbus, Ind. Auto-ambulance truck. No. 1,350,527; Aug. 24; v. 277; p. 639.
Stalker, Frederick W. (See Norwood, H. Y., and Stalker.)
Stamatelopoulos, Bartholomus A. (See Kasematis, G. N., and Stamatelopoulos.)
Stambaugh, Henry J., and G. M. McCann, Washington, D. C. Breech mechanism. No. 1,348,594; Aug. 3; v. 277; p. 90.
Stamp, Hugo O., Milwaukee, Wis. Self-loading concrete mixing and distributing machine. No. 1,349,231; Aug. 10; v. 277; p. 266.
Standard Car Truck Company. (See Barber, F. L., and Webb, assignors.)
Standard Corrugated Box Co. (See Borders, H. L., and Lewis, assignors.)
Standard Manufacturing Company. (See Elmstrom, Anshelm B., assignor.)
Standard Optical Company. (See Van Tassel, John R., assignor.)
Standard Oven Company. (See Hartzell, Amos F., assignor.)
Standard Parts Company, The. (See Annable, Lee V., assignor.)
Standard Parts Company, The. (See McIntyre, Michael M., assignor.)
Standard Parts Company, The. (See Manternach, J. C., and Gressle, assignors.)
Standard Tool & Manufacturing Company. (See McIntosh, James A., assignor.)
Stanfield, G. A., and C. Scroggin, Lake City, Iowa. Threshing-machine. No. 1,350,085; Aug. 17; v. 277; p. 505.
Stanklewicz, Joseph F., Bandon, Oreg. Gopher-trap. No. 1,351,351; Aug. 31; v. 277; p. 882.
Stanko, John, Kool, Wyo. Needle-holder. No. 1,349,232; Aug. 10; v. 277; p. 266.
Stanley Insulating Company. (See Smith, Herbert M., assignor.)
Stanley, John, Santa Monica, Calif., and J. C. Porter, Seattle, Wash. Amusement device. No. 1,350,086; Aug. 17; v. 277; p. 506.
Stanley, William H., Montreal, Quebec, Canada. Coloring and parting material for dental impressions and molds. No. 1,349,013; Aug. 10; v. 277; p. 223.
Stanton, Garrett J., Los Angeles, Calif. Iceless refrigerator. No. 1,348,823; Aug. 3; v. 277; p. 133.
Staples, Arthur L., assignor to Winchester Repeating Arms Company, New Haven, Conn. Hand-lamp switch. No. 1,349,860; Aug. 17; v. 277; p. 462.
Starch, Thomas, Ralls, Tex. Cultivator attachment. No. 1,351,704; Aug. 31; v. 277; p. 930.
Stark, Ottmar G. (See Flammang, John, assignor.)
Starkweather, Amy R., Amsterdam, N. Y. Underskirt. No. 1,350,848; Aug. 24; v. 277; p. 700.
Starr, Raymond F., *et al.* (See De Cano, Victor M., assignor.)
Staud y Ximenez, Fernando, deceased; F. J. Salas, administrator, New York, N. Y.; A. Berea, administrator de bonis non, vice F. J. Salas, resigned. Apparatus for raising sunken vessels. No. 1,348,595; Aug. 3; v. 277; p. 90.
Stealy, Eliza R., Shenandoah, Iowa. Apparatus for the examination of X-ray and other negatives. No. 1,350,042; Aug. 17; v. 277; p. 497.
Stearns, Frederick S., Swampscott, Mass., assignor to F. G. Gale, Waterville, Quebec, Canada. Current-regulator for electric welding-machines. No. 1,349,303; Aug. 10; v. 277; p. 281.
Stearns, Ralph W., assignor to General Electric Company, Schenectady, N. Y. Condenser. No. 1,349,792; Aug. 17; v. 277; p. 449.
Stecher Lithographic Company. (See Lehr, Frank J., assignor.)
Steel Utilities. (See Morgan, John D., assignor.)
Steel Utilities. (See Wurts, E. V., and Pero, assignors.)
Steel Utilities. (See Wurts, Edward V., assignor.)
Steele, Robert G., Kelso, Saskatchewan, Canada. Adjustable screen for threshing-machines. No. 1,348,668; Aug. 3; v. 277; p. 104.
Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Fruit and vegetable pulping machine. No. 1,349,739; Aug. 17; v. 277; p. 430.
Steere, William J., Rockwood, Tenn. Brush device for trimming-machines. No. 1,348,247; Aug. 3; v. 277; p. 24.
Steiger, Eugen, Zurich, Switzerland. Sound recorder and reproducer. No. 1,350,246; Aug. 17; v. 277; p. 536.
Stein, Charles, Paris, assignor to Societe Ch. M. Stein & Cie., Paris, France. Regenerative furnace. No. 1,350,624; Aug. 24; v. 277; p. 657.
Stein, Clarence L., assignor of one-half to H. M. Johnson, Aurora, Ill. Fish-stringer. No. 1,350,390; Aug. 24; v. 277; p. 611.
Steinberger, Louis, Brooklyn, N. Y. Disk suspension-insulator. No. 1,348,248; Aug. 3; v. 277; p. 24.
Steinberger, Louis, Brooklyn, N. Y. Insulating-knob. No. 1,348,249; Aug. 3; v. 277; p. 24.
Steinmetz, Joseph A., Philadelphia, Pa. Submarine-destroying bomb. No. 1,349,014; Aug. 10; v. 277; p. 223.
Steinmetz, Robert, assignor of one-tenth to S. S. Amdursky, Rochester, N. Y. Cushion-cover for seats and backs of chairs. No. 1,349,347; Aug. 10; v. 277; p. 289.

Steinrok, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Manufacture of treated stone. No. 1,349,389; Aug. 10; v. 277; p. 298.

Stelting, Carl W., assignor of one-half to C. B. Nelson, Medford, Okla. Gear-puller for automobiles and all other kinds of machinery. No. 1,351,307; Aug. 31; v. 277; p. 852.

Stenger, Francis J., assignor of one-half to L. J. Goyette, Detroit, Mich. Ball-joint piston-connecting rod. No. 1,350,747; Aug. 24; v. 277; p. 681.

Stephens, Richard H., assignor of one-half to Kynoch Limited, Birmingham, England. Vapor-stove. No. 1,348,759; Aug. 3; v. 277; p. 121.

Stephenson, Leonard D., New York, N. Y., assignor, by mesne assignments, to Paper Bottle and Can Company, Inc., Wilmington, Del. Machine for capping multisided paper bottles. No. 1,349,283; Aug. 10; v. 277; p. 267.

Stephenson, Leonard D., New York, N. Y., assignor, by mesne assignments, to American Paper Bottle and Can Company, Inc., Wilmington, Del. Machine for capping multisided paper bottles. No. 1,349,234; Aug. 10; v. 277; p. 267.

Stereoscopic Motion Picture Company. (See Ball, Waldon S., assignor.)

Sterling Manufacturing Company. (See Danke, Arthur E., assignor.)

Stern, Adolf, assignor to F. W. Stewart Mfg. Co., Chicago, Ill. Piston-ring and the like. No. 1,350,849; Aug. 24; v. 277; p. 700.

Stern, Morris J., Brooklyn, N. Y. Food-service cabinet. No. 1,349,634; Aug. 17; v. 277; p. 419.

Sterns, Edward, St. Louis, Mo., assignor, by mesne assignments, to Surety Tire & Rubber Company, Wilmington, Del. Tire-making device. No. 1,348,596; Aug. 3; v. 277; p. 91.

Stevens Brothers. (See Stevens, Robert H., assignor.)

Stevens, Frederick M., New York, N. Y., assignor to John Chatillon & Sons. Method and apparatus for wiring coil-springs. No. 1,351,448; Aug. 31; v. 277; p. 881.

Stevens, Frederick M., New York, N. Y., assignor to John Chatillon & Sons. Scale. No. 1,351,449; Aug. 31; v. 277; p. 881.

Stevens, George H., Woodbury Heights, N. J. Gas-burner. No. 1,350,678; Aug. 24; v. 277; p. 667.

Stevens, J. E., Company, The. (See Lorents, Hermann G., assignor.)

Stevens, Lawrence V., Pittsburgh, Pa. Push-pole for locomotives. No. 1,349,985; Aug. 17; v. 277; p. 486.

Stevens, Robert H., Larchmont, assignor to Stevens Brothers, New York, N. Y. Emulsifier. No. 1,351,352; Aug. 31; v. 277; p. 862.

Stevenson, Ashton G., New York, N. Y., assignor to Chicago Lino-Tabler Company, Chicago, Ill. Ruled printing-form. No. 1,349,536; Aug. 10; v. 277; p. 326.

Stevenson, Charles M., Rockford, Ill. Stanchion-fastener and shock-absorber. No. 1,350,679; Aug. 24; v. 277; p. 668.

Stevenson, John S., Baltimore, Md. Spark-indicator and plug-tester. No. 1,348,456; Aug. 3; v. 277; p. 64.

Steward Davit & Equipment Corporation. (See Hills, Harry B., assignor.)

Stewart, Arthur L. (See Gleason, J. E. and Stewart.)

Stewart, Clarence R., Spokane, Wash. Game apparatus. No. 1,348,597; Aug. 3; v. 277; p. 91.

Stewart, F. W., Mfg. Co. (See Stern, Adolf, assignor.)

Stewart, Franklin W., Chicago, Ill. Roller-bearing. No. 1,350,680; Aug. 24; v. 277; p. 668.

Stewart, Perez M. (See Hubbard, Norman, assignor.)

Stewart, Richard M., Chicago, Ill. Can-opener. No. 1,348,760; Aug. 3; v. 277; p. 121.

Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-preparing machine. No. 1,349,740; Aug. 17; v. 277; p. 440.

Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,015; Aug. 10; v. 277; p. 223.

Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,016; Aug. 10; v. 277; p. 223.

Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Printing-press. No. 1,349,861; Aug. 17; v. 277; p. 463.

Stickney, Burnham C., Elizabeth, N. J., and A. A. Johnson, assignors to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,350,681; Aug. 24; v. 277; p. 668.

Stiefel, Herman, *et al.* (See Hachmann, Frederick, assignor.)

Stiles, Luster, Jr., Evansville, Ind. Oil-atomizer. No. 1,350,391; Aug. 24; v. 277; p. 611.

Stimatze, John B., St. John, Kans. Rail-lifter. No. 1,351,705; Aug. 31; v. 277; p. 931.

Stine, George E., Los Angeles, Calif. Folding furniture. No. 1,351,013; Aug. 24; v. 277; p. 731.

Stitt, Orlando, Toledo, Ill. Safety-drive for harvester-reels. No. 1,350,643; Aug. 17; v. 277; p. 497.

Stitzer, William E., Muskogee, Okla. Attachment for internal-combustion engines. No. 1,351,706; Aug. 31; v. 277; p. 921.

Stobs, Thomas, and W. Lightell, Maywood, Ill. Signaling-lamp for motor-vehicles. No. 1,350,682; Aug. 24; v. 277; p. 668.

Stockdale, Dorsey M., Carmichaels, Pa. Hatpin. No. 1,350,945; Aug. 24; v. 277; p. 718.

Stockdale, Dorsey M., Ellenboro, W. Va. Reel. No. 1,350,946; Aug. 24; v. 277; p. 718.

Stocker, William H., Philadelphia, Pa. Wicker-panel. No. 1,349,477; Aug. 10; v. 277; p. 314.

Stoker, Henry L., New York, N. Y. Dog-muzzle. No. 1,351,140; Aug. 31; v. 277; p. 819.

Stokes, Reuben C., and J. C. Conrad, Cement, Okla. Reducing-valve. No. 1,349,448; Aug. 10; v. 277; p. 308.

Stokes, & Smith Company. (See Morrison, Alfred J., assignor.)

Stolle, Georg. (See Gall, F., and Stolle.)

Stolpe, Frederick J. (See Klasing, Augustus F., assignor.)

Stoltman, John A., Minto, N. D. Printing-machine. No. 1,348,330; Aug. 3; v. 277; p. 40.

Stone, Albert, Seattle, Wash. Condiment-holder. No. 1,350,120; Aug. 17; v. 277; p. 512.

Stone, Edward L. (See Bates, W. B., and Stone.)

Stone, Ernest V., Los Angeles, Calif. Apparatus for distilling mineral oil. No. 1,351,266; Aug. 31; v. 277; p. 844.

Stone, Harry A., *et al.*, trustees. (See Jones, Walter J., assignor.)

Stone, J., & Company. (See Rohman, Harry D., assignor.)

Stone, John. (See Barnhill, E. B., and Stone.)

Stone, John A., Derry, N. H., assignor to I. L. Keith, Haverhill, Mass. Press-board for stacks of soles. No. 1,348,521; Aug. 3; v. 277; p. 75.

Story, John T., New York, N. Y. Hair insole. No. 1,351,726; Aug. 31; v. 277; p. 934.

Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler-loom. No. 1,350,121; Aug. 17; v. 277; p. 512.

Stone, William, New York, N. Y. Purse. No. 1,350,980; Aug. 24; v. 277; p. 725.

Stoner, Winifred S., assignor to Newark Paraffine & Parchment Paper Co., New York, N. Y. Candy-wrapper. No. 1,348,761; Aug. 3; v. 277; p. 121.

Stout, Oscar M., Brooklyn, N. Y. Chocolate-developing machinery. No. 1,349,235; Aug. 10; v. 277; p. 267.

Stoute, Arthur L. P., *et al.*, executors. (See Stoute, Richard A., assignor.)

Stoute, Richard A., deceased, Branksmere, Barbados, British West Indies; J. G. C. Ward and A. L. P. Stoute, executors. Wheel-spoke-repair means. No. 1,350,528; Aug. 24; v. 277; p. 689.

Stowell, Edward R., Portland, Ind., assignor to Stowell Fireproofing Company, Manistee, Mich. Making an insulating and protective coating. No. 1,350,843; Aug. 24; v. 277; p. 601.

Stowell Fireproofing Company. (See Stowell, Edward R., assignor.)

Strachan, George C., Detroit, Mich. Bathtub. No. 1,348,250; Aug. 3; v. 277; p. 24.

Stradley, Leighton P., *et al.*, trustees. (See Jones, Walter J., assignor.)

Straka, Jaroslav, Chicago, Ill. Toy. No. 1,351,450; Aug. 31; v. 277; p. 881.

Strang, Harry B., London, England. Armor-piercing projectile. No. 1,351,498; Aug. 31; v. 277; p. 890.

Strasser, Albert, Rorschach, Switzerland. Deoxidising copper and its alloys. No. 1,348,457; Aug. 3; v. 277; p. 64.

Strasser, Albert, Rorschach, Switzerland. Deoxidising aluminum and its alloys. No. 1,348,458; Aug. 3; v. 277; p. 64.

Stratton, William T., Billings, Mont. Pump attachment for automobiles. No. 1,350,122; Aug. 17; v. 277; p. 512.

Straubel, F. L. G., Green Bay, Wis. Desk-drawer file. No. 1,350,186; Aug. 17; v. 277; p. 525.

Strawn, William H., *et al.* (See Blackwell, Henry F., assignor.)

Streibich, J. C., and G. F. Gruver, Little Rock, Ark. Submersible water-power device. No. 1,350,187; Aug. 17; v. 277; p. 525.

Streichik, Michael, Glenfield, N. Y. Train-operated railway-gate. No. 1,349,986; Aug. 17; v. 277; p. 486.

Stremel, Joseph, assignor of one-half to E. Asher, Spokane, Wash. Sewer-pipe construction. No. 1,348,332; Aug. 3; v. 277; p. 40.

Stretch, Arthur J., Seattle, Wash. Hinge. No. 1,348,598; Aug. 3; v. 277; p. 91.

Strickland, Frank M. (See Kennedy, George D., assignor.)

Strietelmeier, John E., assignor to The Ideal Wheel Company, Cincinnati, Ohio. Spring-wheel. No. 1,348,834; Aug. 3; v. 277; p. 135.

Stringer, Melvin, Cleveland, assignor of one-fourth to G. T. Bauder and one-fourth to A. E. Merkel, Cleveland, Ohio. Brake mechanism for vehicles. No. 1,348,331; Aug. 3; v. 277; p. 40.

Stringfellow, Henry A., and E. W. Templin, Rochester, N. Y. Steam-engine. No. 1,350,625; Aug. 24; v. 277; p. 657.

Stringham, George R., assignor, by mesne assignments, to M. V. Kelley, trustee, New York, N. Y. Motion-picture camera. No. 1,350,683; Aug. 24; v. 277; p. 669.

Strobl, Frank. (See Sebring, F. A., and Strobl.)

Strohbach, Henry, New York, N. Y. Coffee-urn. No. 1,349,236; Aug. 10; v. 277; p. 267.

Stromberg-Carlson Telephone Manufacturing Company. (See Dean, William W., assignor.)

Strong, Annie W. S., *et al.* (See Harmon, Alton D., assignor.)

Strosaker, Charles J. (See Dow, H. H., and Strosaker.)

Stroud, William. (See Barr, A., Stroud, and d'Albe.)

Strumph, Isadore N., New York, N. Y. Detachable cuff for shirt-sleeves. No. 1,349,987; Aug. 17; v. 277; p. 486.

Stryhal, Joseph M., Washington, D. C., assignor of one-half to W. M. Manion, Philadelphia, Pa. Attachment for grinding screw-threaded articles. No. 1,350,044; Aug. 17; v. 277; p. 497.

Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Reclaiming and conveying apparatus. No. 1,348,599; Aug. 3; v. 277; p. 91.

Stuart, George W., Bay Minette, Ala. Vine-cutter. No. 1,350,529; Aug. 24; v. 277; p. 639.

Stuart, Robert F., Kokomo, Ind. Box-marking machine. No. 1,351,353; Aug. 31; v. 277; p. 862.

Stungo, Joseph, New York, N. Y. Wheel and demountable-rim construction. No. 1,351,587; Aug. 31; v. 277; p. 908.

Stupar, Max, assignor to A. J. Elias, Buffalo, N. Y. Launching device for flying-machines. No. 1,350,947; Aug. 24; v. 277; p. 719.

Stupar, Max, assignor to Abraham J. Elias, Buffalo, N. Y. Detachable stabilizing-fin for flying-machines. No. 1,350,948; Aug. 24; v. 277; p. 719.

Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,350,626; Aug. 24; v. 277; p. 658.

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Crushing-roll machine. No. 1,350,748; Aug. 24; v. 277; p. 682.

Stutzke, R. W. G., assignor to The G. A. Buhl Company, Chicago, Ill. Desiccating milk and the like. No. 1,350,248; Aug. 17; v. 277; p. 537.

Stutzke, Richard W. G., assignor to Crown Maltose Company, Chicago, Ill. Desiccating fluid substances. No. 1,350,247; Aug. 17; v. 277; p. 536.

Stuyvesant Glass Company. (See Elmer, A., and Wiegand, assignors.)

Strait, William, Appleton, Wis., assignor to The Cleveland Tractor Company, Euclid, Ohio. Tractor-truck. No. 1,349,791; Aug. 17; v. 277; p. 449.

Strauss, Joseph B., Chicago, Ill. Reconnoitering apparatus. No. 1,349,635; Aug. 17; v. 277; p. 419.

Submarine Arms Corporation. (See Leathers, Ward G., assignor.)

Submarine Signal Company. (See Blake, Robert F., assignor.)

Submarine Signal Company. (See Fessenden, Reginald A., assignor.)

Suckfield, George A. (See Lockwood, B. D., and Suckfield.)

Sudderth, W. J. (See Horne, Henry M., assignor.)

Sugimura, Matthew Y., New York, N. Y. Independently-detachable undershade for light-standards. No. 1,349,478; Aug. 10; v. 277; p. 315.

Sullivan, Frank, Cusick, Wash. Portable irrigating device. No. 1,350,684; Aug. 24; v. 277; p. 669.

Sullivan, Joseph, *et al.* (See Real, L., and Hebern, assignors.)

Sullivan Machinery Company. (See Gilman, George H., assignor.)

Sullivan Machinery Company. (See Wyman, Charles W., assignor.)

Sullivan, Michael F., San Francisco, assignor to G. A. Margeson, San Jose, Calif. Indicator. No. 1,351,707; Aug. 31; v. 277; p. 931.

Summerhayes, Henry R. (See Craighead, James R., and Summerhayes.)

Sun, Woo L. (See Simpson, William M., assignor.)

Sunbeam Chemical Company. (See Cates, Leland C., assignor.)

Sundh, August, Hastings-on-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Apparatus for treating metal strips. No. 1,349,444; Aug. 10; v. 277; p. 308.

Sundh Engineering and Machine Company. (See Sundh, August, assignor.)

Sundstrom, Carl, Detroit, Mich., assignor to The Solvay Process Company, Solvay, N. Y. Recovering constituents of value from natural alkaline deposits. No. 1,349,445; Aug. 10; v. 277; p. 308.

Sundstrom, Carl, Syracuse, N. Y., assignor to The Solvay Process Company, Solvay, N. Y. Recovering borax from solutions containing sodium borates. No. 1,349,446; Aug. 10; v. 277; p. 309.

Sundstrom, Carl, Syracuse, N. Y., assignor to The Solvay Process Company, Solvay, N. Y. Obtaining sodium bicarbonate from alkaline waters. No. 1,349,447; Aug. 10; v. 277; p. 309.

Surety Tire & Rubber Company. (See Sterns, Edward, assignor.)

Surface Combustion. (See Bone, W. A., Wilson, and McCourt, assignors.)

Surface Combustion Company, The. (See Eddison, William B., assignor.)

Sutter, Roser B. (See Dick, R. H., Wolters, and Sutter.)

Sutter, Roser B., assignor to Zenitherm Company, Newark, N. J. Waterproofed material and making same. No. 1,351,087; Aug. 31; v. 277; p. 808.

Suzuki, Sosaku, Tokyo, Japan. Combination spoon and fork. No. 1,348,762; Aug. 3; v. 277; p. 121.

Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)

Svenska Aktiebolaget Gassaccumulator. (See Dalén, Gustaf, assignor.)

Swallender, Swante J. P., Chicago, Ill. Loose-file-card holder. No. 1,348,906; Aug. 10; v. 277; p. 202.

Swan, Charles, Cleveland, Ohio. Combined leveling and cushioning device for traction-engines. No. 1,348,333; Aug. 3; v. 277; p. 40.

Swanson, Axel E., Chicago, Ill. Bottling-machine. No. 1,350,249; Aug. 17; v. 277; p. 537.

Swanson, Edward, Shemeld, Ill. Knockdown hen's nest. No. 1,351,308; Aug. 31; v. 277; p. 852.

Swanson, Robert L., Red Bluff, Calif. Fluid-transmission mechanism. No. 1,349,024; Aug. 17; v. 277; p. 474.

Swartz Electric Company. (See Swartz, Ira T., assignor.)

Swartz, George W., Peoria, Ill. Engine. No. 1,351,544; Aug. 31; v. 277; p. 899.

Swartz, Ira T., assignor to Swartz Electric Company, Indianapolis, Ind. Electric power system. No. 1,348,907; Aug. 10; v. 277; p. 202.

Sweet, Ernest E., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,349,589; Aug. 17; v. 277; p. 416.

Sweet, Frederick D., Cleveland, Ohio. Apparatus for priming engines. No. 1,350,344; Aug. 24; v. 277; p. 601.

Sweetland, Ernest J., assignor, by mesne assignments, to United Filters Corporation, Montclair, N. J. Filter. No. 1,349,238; Aug. 10; v. 277; p. 268.

Sweiven, Martin O., Olivia, Minn. Spring-tire. No. 1,348,522; Aug. 3; v. 277; p. 76.

Swett, Charles E., Brookline, Mass., assignor to Arthur D. Little, Incorporated, Cambridge, Mass. Forming shaped articles from precipitated skin-like compounds. No. 1,348,459; Aug. 3; v. 277; p. 64.

Swett, Charles E., Boston, assignor of one half to H. H. Beckwith, Brookline, Mass. Shoe-stiffener. No. 1,348,968; Aug. 10; v. 277; p. 214.

Sweyer, Hervey J., Circleville, Ohio. Vehicle safety baby-holder for use with motor-vehicles, buggies, carriages, &c. No. 1,348,334; Aug. 3; v. 277; p. 40.

Swinehart, James A., Akron, Ohio. Making elastic vehicle-tires. No. 1,349,390; Aug. 10; v. 277; p. 298.

Swing, Alfred J., Cincinnati, Ohio. Tone-arm apparatus for talking-machine. No. 1,349,636; Aug. 17; v. 277; p. 419.

Switzer, William T., Birmingham, Ala. Adjustable head-rest for barbers' chairs. No. 1,349,637; Aug. 17; v. 277; p. 419.

Sylvain, George A., Ottawa, Ontario, Canada. Key. No. 1,350,749; Aug. 24; v. 277; p. 682.

Synthetic Hydro-Carbon Company. (See Whitaker, M. C., and Rittman, assignors.)

Szumkowski, Leonard S., assignor to Ursus Motor Company, Chicago, Ill. Automobile tractor. No. 1,350,889; Aug. 24; v. 277; p. 707.

Taberski, Frank A. (See Kosinski, Stanislaw, assignor.)

Taft, John H. (See Ailes, Adrian S., assignor.)

Taglabue, Charles J., Manufacturing Co. (See Gronbech, Christian E. A., assignor.)

Taglabue, Charles J., Manufacturing Co. (See Roesch, Alfred, assignor.)

Taglabue, Charles J., Manufacturing Co. (See Schneider, Ralph F., assignor.)

Takano, Kiyoshi, Honolulu, Hawaii. Saw. No. 1,351,499; Aug. 31; v. 277; p. 890.

Talbot, Ernest, Lowestoft, England. Fishing-float. No. 1,350,530; Aug. 24; v. 277; p. 639.

Talbot, George H., Newtonville, Mass. Molding-machine. No. 1,349,017; Aug. 10; v. 277; p. 223.

Talbot, John W., Chicago, Ill. Means for forming compressed objects. No. 1,348,669; Aug. 3; v. 277; p. 105.

Taliaferro, John J. (See Kronquest, A. L., and Taliaferro.)

Tally, Carl E., Kopperl, Tex. Railway-switch-operating mechanism. No. 1,350,949; Aug. 24; v. 277; p. 719.

Tálos, Janos, Akron, Ohio. Life-saving suit. No. 1,350,950; Aug. 24; v. 277; p. 719.

Tamura, Shinkichi, Kobe, and M. Watanabe, Tokyo, Japan, said Watanabe assignor to said Tamura. Apparatus for change speed of motor-cars. No. 1,348,251; Aug. 3; v. 277; p. 24.

Tanner Engineering Company. (See Tanner, Harry L., assignor.)

Tanner, Harry L., assignor, by mesne assignments, to Tanner Engineering Company, Inc., Brooklyn, N. Y. Telemetric device. No. 1,350,345; Aug. 24; v. 277; p. 602.

Tansey, William J., assignor, by mesne assignments, to Frederick C. Mathews Company, Detroit, Mich. Bottle-tag. No. 1,350,890; Aug. 24; v. 277; p. 707.

Tate, John C., Oakland, Calif. Gas-burning heater. No. 1,349,862; Aug. 17; v. 277; p. 463.

Taylor, Arlen C., Clay Center, Kans. Vacuum water-circulator. No. 1,349,638; Aug. 17; v. 277; p. 419.

Taylor, Donald R. N., Drummoyne, near Sydney, Australia, and D. Marks, Sydney, New South Wales, Australia. Crutch. No. 1,349,639; Aug. 17; v. 277; p. 420.

Taylor Instrument Companies. (See Hurlburt, Edward N., assignor.)
Taylor Instruments Companies. (See Karat, George, assignor.)
Taylor Instrument Companies. (See Norwood, H. Y., and Stalker, assignors.)
Taylor, James M., Detroit, Mich. Lock. No. 1,350,392; Aug. 24; v. 277; p. 611.
Taylor, John M., Radnor, assignor to Diamond State Fibre Company, Bridgeport, Pa. Parchmentising fabric. No. 1,350,685; Aug. 24; v. 277; p. 669.
Taylor, Joseph S., Pilot Point, Tex. Hand-harvester. No. 1,349,925; Aug. 17; v. 277; p. 474.
Taylor, Marion, Soudan, Va. Automatic train-stop. No. 1,349,172; Aug. 10; v. 277; p. 254.
Taylor, Samuel W., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Bottle-capping apparatus. No. 1,348,908; Aug. 10; v. 277; p. 202.
Taylor, Victor P., New York, N. Y. Alloy. No. 1,350,891; Aug. 24; v. 277; p. 708.
Taylor, W. P., Company. (See Gibney, James W., assignor.)
Taylor-Wharton Iron and Steel Company. (See Cahill, Phillip J., assignor.)
Tedesco, Arrigo, executors, *et al.* (See Salvati, Michele N.)
Tedesco, Arrigo, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy. Zinc alloy. No. 1,350,892; Aug. 24; v. 277; p. 708.
Tedesco, Arrigo, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy. Manufacturing aluminum alloys. No. 1,350,893; Aug. 24; v. 277; p. 708.
Teel, William H., Los Angeles, Calif. Pumping Power. No. 1,351,267; Aug. 31; v. 277; p. 844.
Telepost Company. (See Delany, P. B., and Shumaker, assignors.)
Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,348,763; Aug. 3; v. 277; p. 122.
Templin, Ellis W. (See Stringfellow, H. A., and Templin.)
Ten Broeck, Floyd G., Brooklyn, N. Y., and M. T. Weston, Keansburg, N. J., assignors to West Virginia Pulp & Paper Company, New York, N. Y. Rotary dry-distilling apparatus. No. 1,350,627; Aug. 24; v. 277; p. 658.
Tench, Samuel V., Wilkes-Barre, Pa. Sprocket-chain. No. 1,348,180; Aug. 3; v. 277; p. 11.
Tenge, Dirk A., Krugersdorp, Transvaal, South Africa. Rail-fastening device. No. 1,351,073; Aug. 31; v. 277; p. 806.
Tensfeldt, John O., Ridgewood, N. J. Drier. No. 1,349,590; Aug. 17; v. 277; p. 410.
Terashima, Toyojiro, Tokyo, Japan. Stereoscope. No. 1,349,018; Aug. 10; v. 277; p. 224.
Terhune, Howard, East Cleveland, assignor to The Kilby Manufacturing Company, Cleveland, Ohio. Drop-hammer. No. 1,348,969; Aug. 10; v. 277; p. 214.
Terragni, Manlio, and T. Boldinzoni, New York, N. Y. Embroidering device. No. 1,348,600; Aug. 3; v. 277; p. 91.
Terry, Franklin A., San Francisco, Calif. Automatic burglar-alarm. No. 1,350,188; Aug. 17; v. 277; p. 525.
Tesch, A. E. (See Rasmussen, Martin, assignor.)
Testall Electric Manufacturing Co. (See Bierbower, Richard C., assignor.)
Tevander, Swan N., Maywood, Ill., assignor to American Can Company, New York, N. Y. Container-closure. No. 1,348,601; Aug. 3; v. 277; p. 92.
Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Wheel-dressing mechanism. No. 1,350,531; Aug. 24; v. 277; p. 639.
Thacker, William T., Greenville, S. C. Rocker-stud bearing. No. 1,348,602; Aug. 3; v. 277; p. 92.
Theis, Le Roy W. (See Perdue, R. H., and Theis.)
Theodore, Anostopoulo D., whose full legal name is T. D. Anagnostopoulos, Eunice, La. Article-handler. No. 1,350,123; Aug. 17; v. 277; p. 512.
Theros Company, The. (See Popper, Isaac C., assignor.)
Thiel, Frank, Remsen, Iowa. Rope-measuring device. No. 1,350,894; Aug. 24; v. 277; p. 708.
Thielman, George F., St. Cloud, Minn. Stair-rule. No. 1,349,848; Aug. 10; v. 277; p. 290.
Thill, Leonard S., Great Falls, Mont. Ore-feeding apparatus for furnaces. No. 1,348,603; Aug. 3; v. 277; p. 92.
Thiman, Knut G., New York, N. Y. Rule attachment. No. 1,349,349; Aug. 10; v. 277; p. 290.
Thistlethwaite, Arthur W., Atchison, Kans. Gun-barrel. No. 1,351,309; Aug. 31; v. 277; p. 853.
Thomas, Herbert O. (See Willis, F. L., and Thomas.)
Thomas, Phillips, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. No. 1,351,074; Aug. 31; v. 277; p. 806.
Thomas, Walter and A. E. Malnwaring, Nanaimo, assignors to Fuel Conservation Company, Limited, Vancouver, British Columbia, Canada. Heat-generating furnace. No. 1,349,537; Aug. 10; v. 277; p. 327.
Thompson, Benjamin L., Roanoke, Va. Electric-light-bulb stabilizer. No. 1,348,970; Aug. 10; v. 277; p. 214.
Thompson, Charles E. (See Garman, Harry B., assignor.)
Thompson, Charles E. (See Garman, H. B., and Buck, assignors.)
Thompson, Harry E. (See Butler, R. T., and Thompson.)
Thompson, Herbert, Foxcroft, Me. Game. No. 1,348,335; Aug. 3; v. 277; p. 41.
Thompson, John T., *et al.* (See Cummings, Henry H., assignor.)
Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Buffer. No. 1,351,141; Aug. 31; v. 277; p. 810.
Thompson, Robert L., Troup, Tex. Sod cutting and disintegrating machine. No. 1,349,926; Aug. 17; v. 277; p. 474.
Thompson, William B. (See Pope, Frederick J., assignor.)
Thomson, Stuart, Washington, D. C., assignor to General Electric Company. Heating device and control therefor. No. 1,350,895; Aug. 24; v. 277; p. 708.
Thornbiade, George P. (See Kollin, Carl F., assignor.)
Thorne Brothers. (See Anderson, Carl O., assignor.)
Thornhill, James O., Jelle, Minn. Cotton-chopping machine. No. 1,348,764; Aug. 3; v. 277; p. 122.
Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,349,891; Aug. 10; v. 277; p. 298.
Thorp, William T., Hillsboro, Ill. Tatting-shuttle. No. 1,349,741; Aug. 17; v. 277; p. 440.
Thurnau, Arthur F., assignor to Lawrence Airplane Model and Supply Company, Chicago, Ill. Toy aeroplane. No. 1,348,971; Aug. 10; v. 277; p. 215.
Tiefel, Charles G., assignor to Todd Protectograph Company, Inc., Rochester, N. Y. Check-writing machine. No. 1,350,428; Aug. 24; v. 277; p. 618.
Tiefenbrun, Katherine M., St. Louis, Mo. Covering for condensed-milk cans. No. 1,349,591; Aug. 17; v. 277; p. 410.
Tiemann, George, assignor of eleven per cent. to F. A. Muentnich, Joliet, Ill. Egg-case. No. 1,351,708; Aug. 31; v. 277; p. 931.
Tillotson, Harry C. (See Ritter, G. F., and Tillotson.)
Tillotson Manufacturing Company. (See Ritter, G. F., and Tillotson, assignors.)
Tillson, Edwin D., assignor to Associated Engineers Company, Chicago, Ill. Lamp-guard. No. 1,349,392; Aug. 10; v. 277; p. 298.
Timberlake, George B., St. Louis, Mo. Spring-wheel. No. 1,349,019; Aug. 10; v. 277; p. 224.
Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
Timosci, Antonio T., San Jose, Calif. Oil-burner. No. 1,349,479; Aug. 10; v. 277; p. 315.
Tisdell, Frank J., assignor of one-fourth to C. B. Davis, and one-half to Gregory & Read Co., Lynn, Mass. Top-lift-burnishing machine. No. 1,349,863; Aug. 17; v. 277; p. 463.
Titanium Alloy Manufacturing Company, The. (See Barton, Louis E., assignor.)
Titeflex Metal Hose Corporation. (See Fulton, William H., assignor.)
Titus, Frank M., Bradford, Pa., assignor to The United States and Cuban Allied Works Engineering Corporation. Pressure throttle control. No. 1,348,604; Aug. 3; v. 277; p. 92.
Tobias, John M., Pittsburgh, Pa. Stove. No. 1,348,072; Aug. 10; v. 277; p. 215.
Todd, Alexander B., San Francisco, Calif. Separator. No. 1,348,252; Aug. 3; v. 277; p. 25.
Todd, Daniel M., assignor to Elgin Street Sweeper Co., Elgin, Ill. Street-sweeper. No. 1,348,605; Aug. 3; v. 277; p. 92.
Todd Protectograph Company. (See Johanson, Magnus H., assignor.)
Todd Protectograph Company. (See Tiefel, Charles G., assignor.)
Todhunter, William J., Chicago, Ill. Scrap-cutter. No. 1,349,020; Aug. 10; v. 277; p. 244.
Todhunter, William J., Chicago, Ill. Slabbing-mill. No. 1,349,021; Aug. 10; v. 277; p. 224.
Tohts, Helmuth W. (See Brecht, F. v., and Tohts.)
Toledo Parlor Furniture Company, The. (See De Does, Peter J., assignor.)
Toledo Scale Company. (See Hapgood, Clarence H., assignor.)
Toledo Scale Company. (See Hem, Halvor C., assignor.)
Toledo Scale Company. (See Wetzel, Lewis C., assignor.)
Tolman Print. (See Sargent, Fred W., assignor.)
Tomaszak, Antonl, assignor of one-third to J. Waz, Cohoes, N. Y. Boiler. No. 1,351,142; Aug. 31; v. 277; p. 819.
Tomkins, Edwin F., Coaticook, Quebec, Canada. Apparatus for the manufacture of lace-tips. No. 1,348,336; Aug. 3; v. 277; p. 41.
Tompkins, Edward D., New York, N. Y. Sawing apparatus. No. 1,349,698; Aug. 17; v. 277; p. 431.
Toole, Walter M. (See Middleton, Alfred S., assignor.)
Toomey, John A., Los Angeles, Calif. Valve for internal-combustion engines. No. 1,350,470; Aug. 24; v. 277; p. 629.
Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone toll-circuits. No. 1,348,909; Aug. 10; v. 277; p. 202.
Topping Manufacturing Co., The. (See Price, Thomas V., assignor.) (Reissue.)
Torgler, Fred T. (See Garnett, T. W., and Torgler.)
Torosian, Kerkor, Manchester, N. H. Wall construction. No. 1,349,793; Aug. 17; v. 277; p. 449.

Torrey, Bates, Jr., Syracuse, N. Y., assignor to Semet-Solvay Company, Solvay, N. Y. Process of and apparatus for recovering the ammonia content of coal-gas. No. 1,349,393; Aug. 10; v. 277; p. 298.
Torsch, Edward L., *et al.* (See Holmes, Anderson M., assignor.)
Touchett, Roy E., Fond du Lac, Wis. Leather-marking apparatus. No. 1,350,346; Aug. 24; v. 277; p. 602.
Tower, Daniel W., assignor to Grand Rapids Brass Co., Grands Rapids, Mich. Latch construction. No. 1,351,222; Aug. 31; v. 277; p. 835.
Townill, George, P. Townill, and G. Sampson, Plainfield, Ill. Vehicle-hub wrench. No. 1,351,354; Aug. 31; v. 277; p. 862.
Townill, Peter. (See Townill, G. and P., and Sampson.)
Townsend, Layton W., Hamilton, Ontario, Canada. Folding suit-hanger. No. 1,349,022; Aug. 10; v. 277; p. 224.
Trammell, Charles M., Lakeland, Fla., assignor of one-half to E. A. Henske, Washington, D. C. Device for holding extra wheels on bodies of automobiles. No. 1,350,896; Aug. 24; v. 277; p. 708.
Trammell, Charles M., Lakeland, Fla., assignor of one-half to E. A. Henske, Washington, D. C. Device for holding tires upon automobiles. No. 1,350,897; Aug. 24; v. 277; p. 708.
Trapp, Charles L., assignor of one-fourth to G. C. Donovan, Schuyler, and one-fourth to L. W. Gohr, Omaha, Nebr. Truck-dumping mechanism. No. 1,350,087; Aug. 17; v. 277; p. 506.
Trautman, Edward W., Long Beach, Miss. Toy. No. 1,351,075; Aug. 31; v. 277; p. 806.
Travers, Ray, New London, assignor to The Wisconsin Chair Company, Fort Washington, Wis. Theater chair construction. No. 1,351,268; Aug. 31; v. 277; p. 844.
Tremont Products Company. (See Smith, Raymond D., assignor.)
Trew, Arthur S., Portland, Oreg., assignor to Trew Tabulating Machine Company. Automatic pneumatic card-tabulating machine. No. 1,350,850; Aug. 24; v. 277; p. 700.
Trew Tabulating Machine Company. (See Trew, Arthur S., assignor.)
Tribble, Robert A., Cedarbluff, Miss. Vending apparatus. No. 1,350,088; Aug. 17; v. 277; p. 506.
Triumph Cycle Company. (See Middleton, Edward C., assignor.)
Trolle-Bonde, Gustaf, Trolleholm, Sweden. Apparatus for airing stored corn. No. 1,349,538; Aug. 10; v. 277; p. 327.
Tronconi, Jose F., Buenos Aires, Argentina. Canning food products. No. 1,348,824; Aug. 3; v. 277; p. 133.
Trosien, Charles G., Pontiac, Mich. Lock for automobiles. No. 1,348,337; Aug. 3; v. 277; p. 41.
Trott, Rolland S., Denver, Colo. Detachable counterbalance for motor crank-shafts. No. 1,350,269; Aug. 17; v. 277; p. 541.
Trott, Rolland S., Denver, Colo. Detachable counterbalance-weight for motor crank-shafts. No. 1,350,270; Aug. 17; v. 277; p. 541.
Trotter, Albert, Loughton, England. Bed-table combined with cupboards or like receptacles. No. 1,349,023; Aug. 10; v. 277; p. 225.
Trottnow, Carl F., Rock Island, Ill. Bottle-capping machine. No. 1,348,973; Aug. 10; v. 277; p. 215.
Trouts, Harry, Bridgeport, Conn. Anvil attachment. No. 1,349,927; Aug. 17; v. 277; p. 474.
Trowbridge, William S., assignor to American Steel Foundries, Chicago, Ill. Journal dust-guard. No. 1,350,429; Aug. 24; v. 277; p. 610.
Trueblood, George L., Berkeley, Calif. Projecting apparatus. No. 1,349,640; Aug. 17; v. 277; p. 420.
Trudelle, John R., Chippewa Falls, Wis. Column construction. No. 1,350,686; Aug. 24; v. 277; p. 669.
Truesdell, Arthur E., Rutland, Vt., and L. F. Phillips, West Stockbridge, Mass. Rotary kiln. No. 1,350,750; Aug. 24; v. 277; p. 682.
Trumble, Milon J., Alhambra, Calif., assignor to Shell Company of California. Apparatus for treating hydrocarbon oils. No. 1,349,794; Aug. 17; v. 277; p. 450.
Trump, Edward N., Syracuse, N. Y., and F. Friedrichs, Detroit, Mich., assignors to Humphrey Gas Pump Company. Pump. No. 1,349,394; Aug. 10; v. 277; p. 299.
Trump, Edward N., and F. Friedrichs, Syracuse, N. Y., assignors to Humphrey Gas Pump Company. Pump. No. 1,349,395; Aug. 10; v. 277; p. 299.
Tschudy, Frederick, Fairfield, Ala. Recovery of crude products from benzol light oils. No. 1,348,606; Aug. 3; v. 277; p. 92.
Tucker, Benjamin W., South Orange, N. J., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,351,355; Aug. 31; v. 277; p. 862.
Tucker, William S., Thames Ditton, England. Sound-detecting device. No. 1,351,356; Aug. 31; v. 277; p. 863.
Tunks, Charles A. (See Eickhoff, T. H., and Tunks.)
Tunks, Charles A., Cleveland, Ohio, assignor to Auto Ordnance Corporation, New York, N. Y. Magazine. No. 1,349,350; Aug. 10; v. 277; p. 290.
Tunnel Machine Manufacturing & Engineering Company. (See Sheen, Milton R., assignor.)
Tunstall, Harry, Fairhaven, assignor to Alsatian Machine Company, Boston, Mass. Combing-machine. No. 1,351,076; Aug. 31; v. 277; p. 806.
Tunstall, Harry, Fairhaven, assignor to Alsatian Machine Company, Boston, Mass. Combing-machine. No. 1,351,077; Aug. 31; p. 277; p. 806.
Turner, Claude A. P., Minneapolis, Minn. Concrete dam. No. 1,351,588; Aug. 31; v. 277; p. 908.
Turner, William E., Denton, near Manchester, England. Machine for ornamenting and finishing the surfaces of felt hats. No. 1,350,687; Aug. 24; v. 277; p. 669.
Turner, William G., Brooklyn, N. Y. Tooth-filling. No. 1,349,592; Aug. 17; v. 277; p. 410.
Turney, Harry L., Portland, Oreg. Two-speed logging-engine. No. 1,349,742; Aug. 17; v. 277; p. 440.
Turk, Frank, Casselman, assignor of one-fourth to F. Gacnik, Johnstown, and one-fourth to J. Hocevar, Rockwood, Pa. Vegetable-cutter. No. 1,351,357; Aug. 31; v. 277; p. 863.
Tuscher, Jean E., Neuchâtel, Switzerland. Circuit-breaking mechanism for internal-combustion engines. No. 1,350,898; Aug. 24; v. 277; p. 709.
Tussing, Benjamin F., Fruitland, Idaho. Mechanism for assorting fruit by weight. No. 1,349,304; Aug. 10; v. 277; p. 281.
Tuttle & Bailey Mfg. Co. (See Howell, Edward D., assignor.)
Tverdahl, Edward A., Evanston, Ill. Windshield-cleaning device. No. 1,350,751; Aug. 24; v. 277; p. 682.
Tyner, Richard H., Cincinnati, Ohio. Marking, listing, and assorting booth. No. 1,349,699; Aug. 17; v. 277; p. 431.
Typograph G. m. b. H. (See Dorneth, Julius, assignor.)
Tzibides, James N., New York, N. Y., and R. H. Parker, Winthrop, Mass.; said Parker assignor to said Tzibides. Conveying and stacking mechanism. No. 1,350,393; Aug. 24; v. 277; p. 612.
U. S. Light & Heat Corporation. (See Du Bois, Thomas R., assignor.)
Ullmann, Emanuel S., New York, N. Y. Apparatus for mooring dirigibles and the like. No. 1,349,593; Aug. 17; v. 277; p. 410.
Underwood Computing Machine Company. (See Corell, Clifton B., assignor.)
Underwood Computing Machine Company. (See Norin, Carl E., assignor.)
Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)
Underwood Computing Machine Company. (See Wright, Walter, assignor.)
Underwood Typewriter Company. (See Bates, Harry, assignor.)
Underwood Typewriter Company. (See Corcoran, Cornelius B., assignor.)
Underwood Typewriter Company. (See Duckstine, Julius, assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Underwood Typewriter Company. (See Stickney, B. C., and Johnson, assignors.)
Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
Underwood Typewriter Company. (See Wherry, John A., assignor.)
Underwood Typewriter Company. (See White, William L., assignor.)
Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Electrical system of power transmission. No. 1,350,899; Aug. 24; v. 277; p. 709.
Union Special Machine Company. (See Berger, Joseph, Jr., assignor.)
Union Special Machine Company. (See Heap, Jesse J., assignor.)
Union Special Machine Company. (See Moffatt, J. R. and Kelso.)
Union Special Machine Company. (See Moffatt, James R., assignor.)
United Filters Corporation. (See Sweetland, Ernest J., assignor.)
United Printing Machinery Company. (See Upham, Burt F., assignor.)
United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)
United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Corporation. (See Bliss, Charles A., assignor.)
United Shoe Machinery Corporation. (See Bohanan, Budd D., assignor.)
United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
United Shoe Machinery Corporation. (See Fausse, Joseph, assignor.)
United Shoe Machinery Corporation. (See Ferguson, George, assignor.)
United Shoe Machinery Corporation. (See Frye, Daniel M., Jr., assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)

United Shoe Machinery Corporation. (See Goddu, George, assignor.)
United Shoe Machinery Corporation. (See Gorsuch, George J., assignor.)
United Shoe Machinery Corporation. (See Hammond, William P., assignor.)
United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)
United Shoe Machinery Corporation. (See Jones, Joseph, assignor.)
United Shoe Machinery Corporation. (See Levegne, Bernard T., assignor.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
United Shoe Machinery Corporation. (See Rigby, John H., assignor.)
United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
United Shoe Machinery Corporation. (See Smith, Robert B., assignor.)
United Shoe Machinery Corporation. (See Stacey, Cyril F., assignor.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
Union Special Mach. Company. (See Onderdonk, L., and Wohlpart, assignors.)
United States and Cuban Allied Works Engineering Corporation, The. (See Titus, Frank M., assignor.)
United States Envelope Company. (Reissue.) (See Furman, Samuel, assignor.)
United States Printing and Lithograph Company, The. (See Fuelling, Louis H., assignor.)
United States Sanitary Manufacturing Company. (See Dixon, J., and Shaffer, assignors.)
United States Sanitary Manufacturing Company. (See Jobe, J. S., and Dixon, assignors.)
United States Wind Engine & Pump Company. (See Wenberg, Oscar A., assignor.)
Universal Winding Company. (See Marcroft, George, assignor.)
United States Window Glass Company. (See Warrick, Charles F., assignor.)
United-Xpedite Finishing Company. (See Limle, Edward B., assignor.)
Universal Metal Company. (See Brown, M. Lewis, assignor.)
Universal Paint Remover and Motor Cleaning Company. (See Cleveland, David P., assignor.)
Unruh, Herbert F., Meno, Okla. Leveling attachment. No. 1,349,928; Aug. 17; v. 277; p. 474.
Upham, Burt F., assignor to United Printing Machinery Company, Boston, Mass. Printing-press. No. 1,348,253; Aug. 3; v. 277; p. 25.
Upham, Burt F., assignor to United Printing Machinery Company, Boston, Mass. Sheet-feeding mechanism. No. 1,348,254; Aug. 3; v. 277; p. 25.
Urbaner, Henry C., Naperville, Ill. Hand-press for shafting. No. 1,351,358; Aug. 31; v. 277; p. 863.
Ursus Motor Company. (See Szumkowski, Leonard S., assignor.)
Usher, George S., Waco, Tex. Railway-bed and rail-support. No. 1,350,900; Aug. 24; v. 277; p. 709.
Vacuum Muffler Corporation of America. (See Shuman C. S., and Hanson, assignors.)
Valr, Alexander G., Ravenna, Ohio. Motor-vehicle. No. 1,349,743; Aug. 17; v. 277; p. 440.
Valley Electric Company. (See Ballman, Edwin C., assignor.)
Valley Mould and Iron Corporation. (See Coates, Ray G., assignor.)
Valois, Felix E., assignor to Hamel Shoe Machinery Company, Haverhill, Mass. Work-feeding mechanism for channeling-machines. No. 1,349,239; Aug. 10; v. 277; p. 268.
Van Allen, Frederic L., Regina, Saskatchewan, Canada. Apparatus of deseeding flax. No. 1,350,045; Aug. 17; v. 277; p. 498.
Vance, Arlyn T., assignor of one-half to F. J. Abbott, Jr., Los Angeles, Calif. Craft with automatic stabilizer. No. 1,350,579; Aug. 24; v. 277; p. 649.
Van Clief, Ray A., Buffalo, N. Y. Label. No. 1,349,396; Aug. 10; v. 277; p. 299.
Van den Boom, A., *et al.* (See Lundy, Lundy, S., assignor.)
Vandegrift, James N., Red Bank, N. J. Circuit-closing thermostat. No. 1,348,338; Aug. 3; v. 277; p. 41.
Van der Bijl, Hendrik J., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. High-frequency signaling. No. 1,350,752; Aug. 24; v. 277; p. 682.
Vander Putten, John R. (See Merriman, Grove R., assignor.)
Vandervell, C. A., & Company. (See Midgley, Albert H., assignor.)
Van Der Vorn, Jacob, Chicago, Ill. Boring-tool. No. 1,350,394; Aug. 24; v. 277; p. 612.
Van Dervort, Adrian O., Troy, N. Y. Packing-box for piston-rods. No. 1,350,046; Aug. 17; v. 277; p. 498.
Van Deventer, Harry R., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Combined generator and pump. No. 1,349,397; Aug. 10; v. 277; p. 299.
Van Dolsen, Emmet L., Shelbyville, Ind. Power-unit-locating means. No. 1,350,347; Aug. 24; v. 277; p. 602
Van Pelt, Herbert N. (See Van Pelt, James A., assignor.)
Van Pelt, James A., assignor of one-half to H. N. Van Pelt, Morrillton, Ark. Well-bucket. No. 1,350,348; Aug. 24; v. 277; p. 602.
Van Tassel, John R., assignor to Standard Optical Company, Geneva, N. Y. Ophthalmic mounting. No. 1,350,430; Aug. 24; v. 277; p. 619.
Van Tuyl, Carl L., Bison, Kans. Canopy for beds. No. 1,349,929; Aug. 17; v. 277; p. 475.
Van Valkenburg, Burt B., Oakland, Calif. Primary valve for pneumatic musical instruments. No. 1,350,395; Aug. 24; v. 277; p. 612.
Van Valkenburg, Burt, B., Oakland, Calif., assignor to American Photo Player Company, Berkeley, Calif. Vacuum-pump. No. 1,350,396; Aug. 24; v. 277; p. 612.
Van Volkenburg, Lester R., assignor to Avery Company, Peoria, Ill. Tool for refacing valve-seats. No. 1,350,901; Aug. 24; v. 277; p. 709.
Van Wijk, Pieter G., Geldermalsen, Netherlands. Electromagnetic overload cut-out magnet. No. 1,350,902; Aug. 24; v. 277; p. 709.
Vansile, Daniel, Vredenburgh, Ala. Steam-feed-valve control mechanism. No. 1,348,607; Aug. 3; v. 277; p. 93.
Vansile, Daniel, Vredenburgh, Ala. Steam-feed valve. No. 1,348,608; Aug. 3; v. 277; p. 93.
Vapor Car Heating Company. (See Loudon, Warren P., assignor.)
Vapor Car Heating Company. (See Schreiber, Edward A., assignor.)
Vasselli, Anthony. (See Catucci, P., and Vasselli.)
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Tone-arm for talking-machines. No. 1,350,753; Aug. 24; v. 277; p. 682.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Banks of the City of New York, trustee. Spring-retainer. No. 1,350,754; Aug. 24; v. 277; p. 683.
Vaudreuil, Edward J., Eau Claire, Wis. Snipping beans. No. 1,351,088; Aug. 31; v. 277; p. 808.
Vaudreuil, Edward J., Eau Claire, Wis. Apparatus for snipping beans. No. 1,351,143; Aug. 31; v. 277; p. 819.
Veeder, Orison, New Windsor, Ill. Vertically-adjustable gate. No. 1,349,173; Aug. 10; v. 277; p. 254.
Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,350,124; Aug. 17; v. 277; p. 513.
Veneer Products Company, The. (See Atwood, Harry N., assignor.)
Verhagen, John J., Cobleskill, N. Y. Silo-hoop. No. 1,351,310; Aug. 31; v. 277; p. 853.
Vernon, Wilfred F., Walton-on-the-Hill, England, assignor to Humphrey Gas Pump Company. Internal-combustion pump and compressor. No. 1,350,125; Aug. 17; v. 277; p. 513.
Verre, John, Philadelphia, Pa. Antibursting and anti-shock device for tanks, pipes, &c. No. 1,348,384; Aug. 3; v. 277; p. 50.
Versteeg, John, St. Johns, Oreg. Agricultural implement. No. 1,348,255; Aug. 3; v. 277; p. 25.
Vickers Limited. (See Buckham, G. T., and Dawson, assignors.)
Victor Talking Machine Company. (See Brown, H. C. and John, assignors.)
Victor Talking Machine Company. (See Burton, Isaac F., assignor.)
Victor Talking Machine Company. (See Diehl, Albert C., assignor.)
Viehweger, Paul, Milwaukee, Wis. Artificial bait. No. 1,348,670; Aug. 3; v. 277; p. 105.
Vilter Manufacturing Company, The. (See Keller, John G., assignor.)
Violiet, Emile, Paris, France. Lamp. No. 1,348,523; Aug. 3; v. 277; p. 76.
Vincent, Edith L., administratrix. (See Vincent, Joseph E.)
Vincent, Ernest H., Oakland, Calif., assignor of one-half to Herman Christensen, Sunnyvale, Calif. Steam-boiler. No. 1,351,500; Aug. 31; v. 277; p. 890.
Vincent, Joseph E., deceased, assignor of one-half to M. Movsessian, Cambridge, Mass.; E. L. Vincent, administratrix. Washer-counter. No. 1,350,755; Aug. 24; v. 277; p. 683.
Virneburg, George, New York, N. Y. Combination wash-rag and soap-container. No. 1,351,311; Aug. 31; v. 277; p. 853.
Virzi, Giovanni, assignor of one-half to J. Virzi, New York, N. Y. Free sounding-board. No. 1,349,700; Aug. 17; v. 277; p. 432.
Virzi, Joseph. (See Virzi, Giovanni, assignor.)
Virzi, Joseph, New York, N. Y. Sounding-board for musical instruments. No. 1,351,709; Aug. 31; v. 277; p. 931.
Vlanch, Samuel, Sioux City, Iowa. Firearm. No. 1,348,910; Aug. 10; v. 277; p. 203.
Voelker, William J., Waterloo, Iowa. Conveyer. No. 1,348,671; Aug. 3; v. 277; p. 105.
Voight, George F., San Francisco, Calif. Horn. No. 1,351,223; Aug. 31; v. 277; p. 835.
Voith, George F., Philadelphia, Pa. Repeating device for talking-machines. No. 1,349,240; Aug. 10; v. 277; p. 268.

Vogel, Otto H., Taber, Alberta, Canada. Combined salt and pepper shaker. No. 1,349,795; Aug. 17; v. 277; p. 450.
Voland, Emil L. (See Voland, George G., and E. L.)
Voland, George G. and E. L., New Rochelle, N. Y. Post for scales. No. 1,350,189; Aug. 17; v. 277; p. 526.
Vons, John, Cleveland, Ohio. Vending-machine. No. 1,351,589; Aug. 31; v. 277; p. 909.
Vons, John, Cleveland, Ohio. Vending-machine. No. 1,351,590; Aug. 31; v. 277; p. 909.
Von Wintzingerode, Eberhard. (See Weaver, A. T., Laufer, and von Wintzingerode.)
Vrooman, James H. E., *et al.* (See Mowatt, Alexander, assignor.)
Wachter, John A., Chicago, Ill. Automatic seal-closure for boxes. No. 1,350,397; Aug. 24; v. 277; p. 612.
Wade, Edwin T., assignor of one-third to Albert C. Jones, Jackson, Miss. Rail tie and fastener. No. 1,348,460; Aug. 3; v. 277; p. 64.
Wadman, J. B. (See Foster, Donovan, assignor.)
Wadsworth, Frank L. O., Pittsburgh, assignor to Skinner Engine Company, Erie, Pa. Steam-engine. No. 1,348,256; Aug. 3; v. 277; p. 25.
Wadsworth, Howard L., Cleveland, Ohio, Sand-cutting machine. No. 1,349,988; Aug. 17; v. 277; p. 486.
Wafer, William H., and J. Murrin, Chicago, Ill. Gage or try-cock. No. 1,349,594; Aug. 17; v. 277; p. 411.
Wagman, E., and H. Brussell, Philadelphia, Pa. Motor attachment for sewing or other machines. No. 1,350,126; Aug. 17; v. 277; p. 513.
Wagner Electric Manufacturing Company. (See Fynn, Valére A., assignor.)
Wagner Engineering Company, The. (See Doty, Walter G., assignor.)
Wagner, Louis P., Milwaukee, Wis. Combination inlay and orthodontia clamp. No. 1,348,257; Aug. 3; v. 277; p. 26.
Wahl, Arnold S., Wheaton, assignor to The Arnold Wahl Institute, Chicago, Ill. Food compound and preparing same. No. 1,350,756; Aug. 24; v. 277; p. 683.
Wahl Company, The. (See Bricken, John, assignor.)
Wahl Company, The. (See Gerry, Wilfred E., assignor.)
Wahl Company, The. (See Keeran, Charles R., assignor.)
Wahl Company, The. (See Wahl, John C., assignor.)
Wahl, George E., Chicago, Ill. Chuck for button-cutting machines. No. 1,348,190; Aug. 3; v. 277; p. 11.
Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,349,024; Aug. 10; v. 277; p. 225.
Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Mechanical pencil. No. 1,349,025; Aug. 10; v. 277; p. 225.
Wahl, John C., Chicago, Ill, assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Fountain-pen. No. 1,351,591; Aug. 31; v. 277; p. 909.
Wainwright, Charles, Erie, Pa. Uniflow steam-engine. No. 1,348,672; Aug. 3; v. 277; p. 105.
Wait, Justin F., Buffalo, N. Y. Treating filtration-membranes. No. 1,350,532; Aug. 24; v. 277; p. 640.
Waite, Fred, Otley, near Leeds, England. Ink-saving device for intaglio printing and embossing presses. No. 1,351,545; Aug. 31; v. 277; p. 900.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,174; Aug. 10; v. 277; p. 255.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,864; Aug. 17; v. 277; p. 463.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,350,398; Aug. 24; v. 277; p. 613.
Waling, Donald, assignor to Keene Mica Products Company, Keene, N. H. Machine for manufacturing composite mica. No. 1,349,351; Aug. 10; v. 277; p. 290.
Walker, Asa C., Mount Airy, assignor of one-half to F. M. Boston, Atlanta, Ga. Tie-spacing device for railways. No. 1,349,026; Aug. 10; v. 277; p. 225.
Walker, Clarence H., New York, N. Y. Attachment for levers. (Reissue.) No. 14,944; Aug. 31; v. 277; p. 935.
Walker, Freman H., Boswell, Okla. Brickmaking-machine. No. 1,350,628; Aug. 24; v. 277; p. 658.
Walker, Harry M., Ellenton, S. C. Centering-punch. No. 1,351,592; Aug. 31; v. 277; p. 909.
Walker, Moses F., Cadiz, Ohio. Alarm for motion-picture-film reels. No. 1,348,609; Aug. 3; v. 277; p. 93.
Walker, Percevall E., Holbrook, Oreg. Chicken-brooder. No. 1,349,175; Aug. 10; v. 277; p. 255.
Walker, William L., New York, N. Y. Signaling apparatus. No. 1,349,305; Aug. 10; v. 277; p. 281.
Walker, William L., New York, N. Y. Explosive shell. No. 1,351,078; Aug. 31; v. 277; p. 806.
Wallace, Thomas, Wabash, Ind. Teeter-totter. No. 1,349,701; Aug. 17; v. 277; p. 432.
Wallingsford, William R., Tinsman, Ark. Folding carstep. No. 1,350,903; Aug. 24; v. 277; p. 710.
Wallis, John L., Andalusia, Ala., assignor to W. C. Fritter, deceased, Dothan, Ala.; N. C. Fritter administratrix. Hay-press. No. 1,348,911; Aug. 10; v. 277; p. 203.
Walsh, Vincent, New York, N. Y. Light-distributer. No. 1,349,241; Aug. 10; v. 277; p. 268.
Walter, Ralph W., Maxomanie, Wis. Cow-stanchion. No. 1,350,480; Aug. 24; v. 277; p. 629.
Walters, John F., Battle Creek, Mich. Pipe-flanging tool. No. 1,350,904; Aug. 24; v. 277; p. 710.
Walther, Adolph F., Cleveland, Ohio. Sound-insulating support. No. 1,350,349; Aug. 24; v. 277; p. 602.
Wambsack, Frederic, Greenwich, Conn. Combined milk-bottle holder and lock. No. 1,351,359; Aug. 31; v. 277; p. 863.
Wappler Electric Co. (See Fayer, Charles, assignor.)
Waraxa, Peter, *et al.* (See Willna, Theodor J., assignor.)
Ward, Jabez G. C., *et al.*, executors. (See Stoute, Richard A.)
Ward, Randolph G., assignor to Independent Mines Smelting Company, Inc., New York, N. Y. Smelting-furnace. No. 1,348,525; Aug. 3; v. 277; p. 76.
Ward, Randolph G., New York, N. Y., and W. R. Ward, Bethlehem, Pa., assignors, by direct and mesne assignments, to Independent Mines Smelting Company, Inc., New York, N. Y. Smelting-furnace. No. 1,351,451; Aug. 31; v. 277; p. 881.
Ward, William B. (See Ward, Randolph G., and W. R.)
Ward, Willis C., Orchard Lake, Mich. Boat-sail. No. 1,348,912; Aug. 10; v. 277; p. 203.
Waream, Charles E. (See Braley, C. L., and Waream.)
Waream, Charles E., Cincinnati, and D. H. Benjamin, Cleveland Heights, assignors to The American Laundry Machinery Company, Norwood, Ohio. Shirt-folding table. No. 1,351,079; Aug. 31; v. 277; p. 807.
Warmoth, George W., Indianapolis, Ind. Wood-block paving. No. 1,351,546; Aug. 31; v. 277; p. 900.
Warner, Burt M., Chicago, Ill. Door-operating mechanism. No. 1,350,688; Aug. 24; v. 277; p. 670.
Warner, Leroy J., Fostoria, Ohio. Inking-roll truck. No. 1,350,127; Aug. 17; v. 277; p. 513.
Warr, Harold G., Park Ridge, assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,350,689; Aug. 24; v. 277; p. 670.
Warren, Alanson C., assignor of one-half to V. M. Warren, Stockton, Calif. Landing device for aeroplanes. No. 1,349,242; Aug. 10; v. 277; p. 268.
Warren, Frank R., Chicago, Ill. Steering-wheel lock. No. 1,349,027; Aug. 10; v. 277; p. 226.
Warren, James W., Alexandria, Va. Bolting-up device. No. 1,348,339; Aug. 3; v. 277; p. 41.
Warren, John R., Marshalltown, Iowa. Mechanical movement. No. 1,350,250; Aug. 17; v. 277; p. 537.
Warren, Robert W. A. Katanning, Western Australia, Australia. Automatic clutch-differential especially for motor-cars. No. 1,348,673; Aug. 3; v. 277; p. 105.
Warren, Violet M. (See Warren, Alanson C., assignor.)
Warrick, Charles F., assignor to United States Window Glass Company, Morgantown, W. Va. Method of opening the shade ends of hand-blown glass rollers. No. 1,351,710; Aug. 31; v. 277; p. 931.
Washburne, Alva C., *et al.* (See Hammond, Grant, assignor.)
Washington, Earnest, Faribault, Minn. Hotel or restaurant cabinet. No. 1,348,461; Aug. 3; v. 277; p. 64.
Watanabe, Bunzo, assignor of one-tenth to H. D. Moyle and P. H. Ray, Salt Lake City, Utah. Coke-rake. No. 1,349,176; Aug. 10; v. 277; p. 255.
Waterbury Farrel Foundry and Machine Company, The. (See Pierson, William D., assignor.)
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Power-lift plow. No. 1,349,028; Aug. 10; v. 277; p. 226.
Wathen, Inez M. (See Wathen, Ivan B., assignor.)
Wathen, Ivan B., Strattonville, assignor to I. M. Wathen, Showers, Pa. Mining implement. No. 1,349,641; Aug. 17; v. 277; p. 420.
Watkins, Everett A., Wichita, Kans. Seed-grader. No. 1,349,306; Aug. 10; v. 277; p. 281.
Watrous, Agnes B., executrix. (See Watrous, Edward L.)
Watrous, Edward L., deceased, El Paso, Tex.; A. B. Watrous, executrix, Evanston, Ill. Coating apparatus and method. No. 1,350,481; Aug. 24; v. 277; p. 630.
Watson, Chauncey R., *et al.* (See Hachmann, Frederick, assignor.)
Watson, Edward A., Greenville, S. C. Spinning apparatus. No. 1,350,905; Aug. 24; v. 277; p. 710.
Watson, George W., Boston, Mass. Non-slip heel for footwear. No. 1,350,190; Aug. 17; v. 277; p. 526.
Watson, Hugh C., Denver, Colo. Surveying instrument. No. 1,348,258; Aug. 3; v. 277; p. 26.
Watson Wagon Company. (See Keesler, Clyde C., assignor.)
Watterson, Wilfred W., Bishop, Calif. Depositing soda, &c. No. 1,350,128; Aug. 17; v. 277; p. 513.
Watterson, William A., Macquarie River, via Euchareena, New South Wales, Australia. Fan for use in spark-arresting and smoke-consuming devices. No. 1,350,191; Aug. 17; v. 27; p. 526.
Way, Eugene W., Seattle, Wash. Show-case lock. No. 1,350,047; Aug. 17; v. 277; p. 498.
Wayne Manufacturing Company. (See Sargent, William H., assignor.)
Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)
Wayne Oil Tank & Pump Company. (See Eilers, Frank B., assignor.)
Waz, Jozef. (See Tomaszak, Antoni, assignor.)

Weaver, Albert T., Joliet, E. W. D. Laufer, Arlington Heights, and E. von Wintzingerode, Chicago, Ill., assignors to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Method of and apparatus for treating waste pickle liquor. No. 1,348,462; Aug. 3; v. 277; p. 65.

Weaver, Edwin N., Jersey City, N. J. Coal-handling machine. No. 1,351,593; Aug. 31; v. 277; p. 909.

Weaver, Lennox G., Portland, Oreg. Course-indicator. No. 1,348,191; Aug. 3; v. 277; p. 11.

Weaver, S. Fullerton, *et al.*, trustees. (See Milliken, Foster, assignor.)

Webb, Arthur B., Watertown, Wis., assignor to W. N. Smith, Chicago, Ill. Tractor. No. 1,348,192; Aug. 3; v. 277; p. 11.

Webb, Edwin W. (See Barber, F. L., and Webb.)

Webb, George C., and T. T. Pottenger, Pittsburgh, Pa. Concrete floor. No. 1,348,610; Aug. 3; v. 277; p. 93.

Webb, Jean F., Sr., New York, N. Y. Aeroplane. No. 1,348,463; Aug. 3; v. 277; p. 65.

Webber, Leonard E. (See Alderbruck, H. G., and Webber.)

Weber, Charles, Newark, N. J. Article of manufacture and making same. No. 1,350,533; Aug. 24; v. 277; p. 640.

Weber, Frans W., Woodville, Ohio. Hydrator for lime. No. 1,350,534; Aug. 24; v. 277; p. 640.

Webster, Raleigh L., *et al.* (See Roberts, John W., assignor.)

Webster, William A., Galesburg, Ill. Baler. No. 1,351,452; Aug. 31; v. 277; p. 881.

Weed Differential-Rotary Motor Company. (See Weed, Howard L., assignor.)

Weed, George W. (See Roberts, A. H., and Weed.)

Weed, Howard L., assignor to Weed Differential-Rotary Motor Company, Detroit, Mich. Cylinder-forming process. No. 1,348,674; Aug. 3; v. 277; p. 106.

Weed, Howard L., assignor to Weed Differential-Rotary Motor Company, Detroit, Mich. Rotary engine. No. 1,348,675; Aug. 3; v. 277; p. 106.

Weeks, Foster, *et al.* (See Olney, Lillian B., assignor.)

Weeks, Helen, assignor of one-half to S. E. Durant, New York, N. Y. Dress-shield. No. 1,350,192; Aug. 17; v. 277; p. 526.

Weeks, John B., Corinth, Miss. Picket-fence strand. No. 1,348,765; Aug. 3; v. 277; p. 122.

Weems, Chester N., Irvington, N. J. Head-lamp. No. 1,349,642; Aug. 17; v. 277; p. 420.

Weidrick, Louie T., Baltimore, Md. Portable Electric Rivet-Heater. No. 1,349,539; Aug. 10; v. 277; p. 327.

Weigel, Philip A., Riverton, N. J., assignor of one-third to E. Gumbel and one-third to G. Di Giacomo, Philadelphia, Pa. Steering-controller. No. 1,350,285; Aug. 17; v. 277; p. 543.

Weinbach, Abraham, Brooklyn, N. Y. Sample-card. No. 1,351,594; Aug. 31; v. 277; p. 910.

Weinhardt, Robert A., assignor to Continental Motors Corporation, Detroit, Mich. Connecting-rod. No. 1,350,580; Apr. 24; v. 277; p. 649.

Weir Stove Company. (See Anthony, Joseph L., assignor.)

Weis, John P., assignor, by mesne assignments, of one-half to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Sewing-machine and cutting mechanism therefor. No. 1,348,526; Aug. 3; v. 277; p. 76.

Weis, John P., assignor of one-half to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Lubricating system and sewing-machine construction. No. 1,348,527, Aug. 3; v. 277; p. 77.

Weis, Paul B., assignor to Aurora Door Hanger & Specialty Company, Aurora, Ill. Folding-door-hanger equipment. No. 1,349,398; Aug. 10; v. 277; p. 299.

Weis, Paul B. assignor to Aurora Door Hanger and Specialty Company, Aurora, Ill. Folding-door-hanger equipment. No. 1,349,399; Aug. 10; v. 277; p. 300.

Welsenborn, G. P. A. (See Brauer, August, assignor.)

Weiser, Frank J. W., Elmhurst, Ill. Player-piano. No. 1,351,312; Aug. 31; v. 277; p. 853.

Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Fibrous products. No. 1,349,112; Aug. 10; v. 277; p. 242.

Weiss, Julia, Wenosha, Wis. Garment. No. 1,349,029; Aug. 10; v. 277; p. 226.

Weltman, Solomon F., Live Oak, Fla. Baling-press. No. 1,351,360; Aug. 31; v. 277; p. 864.

Welch, Samuel P., assignor to Ojus Spark Plug Works, Atlantic City, N. J. Spark-plug. No. 1,348,913; Aug. 10; v. 277; p. 203.

Wellman, Charles A., assignor to Wellman-Muter Corporation, Chicago, Ill. Spark-plug. No. 1,350,757; Aug. 24; v. 277; p. 683.

Wellman-Muter Corporation. (See Wellman, Charles A., assignor.)

Wells, Frank E. (See Wells, Willet C. and F. E.)

Wells, George A., Jr., New York, N. Y. Antirattling device. No. 1,351,453; Aug. 31; v. 277; p. 881.

Wells, Harry M., Omaha, Nebr. Burial-vault. No. 1,351,313; Aug. 31; v. 277; p. 853.

Wells, Willet C. and F. E., Columbus, Ohio. Expressing wax from petroleum distillates. No. 1,350,482; Aug. 24; v. 277; p. 630.

Welsbach Company. (See Blumrick, George, assignor.)

Welshbach Company. (See Knoedler, Elmer I., assignor.)

Welsh, William H., Collingswood, N. J. Case for matrix-carriers. No. 1,350,758; Aug. 24; v. 277; p. 683.

Wenberg, Oscar A., assignor to United States Wind Engine & Pump Company, Batavia, Ill. Tank-heater. No. 1,351,194; Aug. 31; v. 277; p. 880.

Wende, Hermann A., Buffalo, N. Y. Bell-ringing mechanism. No. 1,349,400; Aug. 10; v. 277; p. 300.

Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Reeling apparatus. No. 1,348,193 Aug. 3; v. 277; p. 12.

Wenger, Arthur W. (See Rodgers, E. E., and Wenger.)

Wenner, Frank. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)

Weremko, Joseph M., Herrick, Ohio. Match-box. No. 1,349,243; Aug. 10; v. 277; p. 269.

Werner Film-Protector Manufacturing Company. (See Werner, Paul, assignor.)

Werner, Paul, assignor to Werner Film-Protector Manufacturing Company, St. Louis, Mo. Machine for applying emollient to motion-picture films. No. 1,351,408; Aug. 31; v. 277; p. 878.

West, Alver L. (See Pontius, M. R., and West.)

West, Lawrence B., assignor to One Fire Asphalt Plant Company, Chattanooga, Tenn. Apparatus for preparing paving materials. No. 1,351,861; Aug. 31; v. 277; p. 864.

West Virginia Pulp & Paper Company. (See Ten Broeck, F. G., and Weston, assignors.)

Westall, John, Fall River, Mass. Crude-oil burner. No. 1,348,528; Aug. 3; v. 277; p. 77.

Wescott, William B., Wellesley, assignor to Kalmus, Comstock & Wescott, Inc., Boston, Mass. Trocar. No. 1,348,194; Aug. 3; v. 277; p. 12.

Western Electric Company. (See Arnold, Harold D., assignor.)

Western Electric Company. (See Nelson, Carl A., assignor.)

Western Electric Company. (See Nelson, Edward L., assignor.)

Western Electric Company. (See Van der Bijl, Hendrik J., assignor.)

Western Union Telegraph Company. (See Howe, Paul J., assignor.)

Western Vulcanizer Manufacturing Company. (See Bitter, Arthur A., assignor.)

Western Wheeled Scraper Corporation. (See Moats, O. E., and Benbow, assignors.)

Westinghouse Air Brake Company, The. (See Brown, Thomas R., assignor.)

Westinghouse Electric and Manufacturing Company. (See Bakken, Andrew H., assignor.)

Westinghouse Electric and Manufacturing Company. (See Barclay, D., and Dudley, assignors.)

Westinghouse Electric and Manufacturing Company. (See Boothman, Lawrence, assignors.)

Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)

Westinghouse Electric and Manufacturing Co. (See Candee, Andrew H., assignor.)

Westinghouse Electric and Manufacturing Co. (See Chantermerle, Joseph L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Copley, Almon W., assignor.)

Westinghouse Electric & Manufacturing Co. (See Davis, D. C., and Fortescue, assignors.)

Westinghouse Electric & Manufacturing Company. (See Eckmann, Siegmund H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Egan, William F., assignor.)

Westinghouse Electric & Manufacturing Co. (See Fahnoe, Hans, assignor.)

Westinghouse Electric & Manufacturing Co. (See Fortescue, Charles L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hall, Arthur J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hallock, Fletcher D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)

Westinghouse Electric & Manufacturing Co. (See Hellmund, R. E., and Ferris, assignors.)

Westinghouse Electric & Manufacturing Company. (See Hester, Edgar A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hippie, Oliver P., assignor.)

Westinghouse Electric & Manufacturing Co. (See Holy, George H. F., assignor.)

Westinghouse Electric & Manufacturing Co. (See Jones, Carl G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Jones, Jesse L., assignor.)

Westinghouse Electric & Manufacturing Co. (See Kries, Lawrence F., assignor.)

Westinghouse Electric & Manufacturing Co. (See McCulloch, Leon, assignor.)

Westinghouse Electric & Manufacturing Co. (See Newberry, Frank D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Nicholson, Frank T. and J. M., assignors.)

Westinghouse Electric & Manufacturing Company. (See Pearce, Herbert, assignor.)

Westinghouse Electric & Manufacturing Co. (See Peters, John F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Steimrok, Charles L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)

Westinghouse Electric & Manufacturing Company. (See Thornton, Frank, Jr., assignor.)

Westinghouse Lamp Company. (See Madden, Harry D., assignor.)

Westlake Machine Company, The. (See Kadow, August, assignor.)

Westling, Eric H., Antioch, Calif. Obtaining potassium and other alkali-metal compounds. No. 1,349,113; Aug. 10; v. 277; p. 242.

Westling, Herman, assignor to Apsley Rubber Company, Hudson, Mass. Shoe. No. 1,349,744; Aug. 17; v. 277; p. 440.

Westling, Herman, assignor to Apsley Rubber Company, Hudson, Mass. Shoe. No. 1,349,745; Aug. 17; v. 277; p. 441.

Weston, Milton T. (See Ten Broeck, F. G., and Weston.)

Westwood, Coral N., Victoria, British Columbia, Canada. Course-finder. No. 1,350,581; Aug. 24; v. 277; p. 650.

Wetzel, Lewis C., assignor to Toledo Scale Company, Toledo, Ohio. Automatic weighing-scale. No. 1,351,080; Aug. 31; v. 277; p. 807.

Wheatley, Daniel Y., Hythe, England. Balance-plow. No. 1,348,464; Aug. 3; v. 277; p. 65.

Wheeler, Asa A. (See Simpson, Judson L., assignor.)

Wheeler, E. I., *et al.* (See Mapson, Robert L., assignor.)

Whelan, Eugene B., Omaha, Nebr. Steam-circulating bypass and relief valve. No. 1,351,314; Aug. 31; v. 277; p. 853.

Wherry, John A., New Orleans, La. Collating device for typewriters. No. 1,351,081; Aug. 31; v. 277; p. 807.

Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,351,454; Aug. 31; v. 277; p. 882.

Whitaker, Fletcher A., Stockton, Calif. Method and apparatus for trimming irrigation and drainage ditches. No. 1,351,014; Aug. 24; v. 277; p. 731.

Whitaker, Harold, Lightcliffe, near Halifax, assignor to Bradford Dyers' Association, Limited, Bradford, England. Apparatus for singeing fabrics. No. 1,350,582; Aug. 24; v. 277; p. 650.

Whitaker, Milton C., and W. F. Rittman, New York, N. Y., assignors to Synthetic Hydro-Carbon Company, Pittsburgh, Pa. Apparatus for manufacture of gas. No. 1,348,766; Aug. 3; v. 277; p. 122.

White, Addison O., High Point, N. C. Machine for burning in bearings and limbering up motors. No. 1,348,611; Aug. 3; v. 277; p. 94.

White, Charles D., Norwich, Conn. Spinning-ring. No. 1,351,595; Aug. 31; v. 277; p. 910.

White, Charles E., assignor to Deere & Mansur Company, Moline, Ill. Disk-harrow. No. 1,351,501; Aug. 31; v. 277; p. 891.

White, Charles J., Pawnee, La. Tractor. No. 1,349,930; Aug. 17; v. 277; p. 475.

White, Edward H., *et al.* (See Farmsworth, William W., assignor.)

White, Fred E., assignor to Central Oil & Gas Stove Co., Gardner, Mass. Threadless rod or bolt. No. 1,348,767; Aug. 3; v. 277; p. 123.

White, Harlan B., Crothersville, Ind. Basket. No. 1,351,195; Aug. 31; v. 277; p. 830.

White, John F., assignor, by mesne assignments, to White Products Company, Chicago, Ill. Windshield-cleaner. No. 1,349,989; Aug. 17; v. 277; p. 487.

White, M. C., Company. (See White, Morris C., assignor.)

White, Morris C., assignor to M. C. White Company, Los Angeles, Calif. Compressor and motor-starter. No. 1,351,269; Aug. 31; v. 277; p. 844.

White, Otis. (See Bard, J. W., and White.)

White Products Company. (See White, John F., assignor.)

White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. (Reissue.) No. 14,938; Aug. 24; v. 277; p. 733.

White, Samuel J., Haleyville, Ala. Potato-peeler. No. 1,351,711; Aug. 31; v. 277; p. 932.

White, Thomas E., and G. McIntosh, Newark, N. J. Phonograph-motor. No. 1,349,401; Aug. 10; v. 277; p. 300.

White, William L., Birmingham, Ala., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,349,244; Aug. 10; v. 277; p. 269.

Whitehead Torpedo Works (Weymouth), The. (See Lees, E., and Ridsdale, assignors.)

Whitehouse, John N., assignor to Elektra Toy & Novelty Co., New York, N. Y. Toy figure. No. 1,351,455; Aug. 31; v. 277; p. 882.

Whitelaw, John F. (See Anderson, W. C., Clarke, and Whitelaw. (Reissue.)

Whiteman, George W., Philadelphia, Pa. Insulated rail-joint. No. 1,349,352; Aug. 10; v. 277; p. 290.

Whiting Foundry Equipment Company. (See Davis, Elmer A., assignor.)

Whiting, Geo., Company. (See Parcells, Paul, assignor.)

Whitlock, Allen, Pueblo, Colo. Clothespin. No. 1,348,465; Aug. 3; v. 277; p. 65.

Whitnell, Charles O., Des Moines, Iowa. Metal-frame construction. No. 1,348,529; Aug. 3; v. 277; p. 77.

Whitney, Francilla, Dorchester, Mass. Comforter. No. 1,349,540; Aug. 10; v. 277; p. 327.

Whitney, Frederick S., New York, N. Y. Attachment for cable-recorders. No. 1,350,198; Aug. 17; v. 277; p. 526.

Whittmann, Frank. (See Gay, George L., assignor.)

Wiberg, Harold A., New York, N. Y. Record-cabinet. No. 1,351,596; Aug. 31; v. 277; p. 910.

Wickwire Spencer Steel Corporation. (See Southwick, William S., assignor.)

Widhelm, Margaret V., Fremont, Nebr. Hog-waterer. No. 1,350,629; Aug. 24; v. 277; p. 658.

Wiedeman, George J., Lewistown, and J. H. Hughes, Welter, Mont. Chain clamp and tightener. No. 1,349,702; Aug. 17; v. 277; p. 432.

Wiegand, Wilhelm T. (See Eimer, A., and Wiegand.)

Wiemer, Albert, Bradley, Ill. Cabinet-trap. No. 1,349,177; Aug. 10; v. 277; p. 255.

Wiggers, Albert, Jersey City, N. J. Folding article-holder. No. 1,349,402; Aug. 10; v. 277; p. 300.

Wiggins, Isam I., McIntosh, Ga. Differential mechanism for front and rear driven vehicles. No. 1,350,194; Aug. 17; v. 277; p. 527.

Wiggs, Harry E., Mannford, Okla. Tool for holding hoes while sharpening the same. No. 1,349,178; Aug. 10; v. 277; p. 255.

Wigle, Wilson B., Montebello, Calif. Wheel-gudgeon. No. 1,349,030; Aug. 10; v. 277; p. 226.

Wilber, Hugh L., Kansas City, Mo., assignor to The Wilberite Roofing Company, Cleveland, Ohio. Roofing material and preparing same. No. 1,348,259; Aug. 3; v. 277; p. 26.

Wilber, Oscar H., Jr., Mobile, Ala. Rotary engine. No. 1,349,353; Aug. 10; v. 277; p. 290.

Wilberite Roofing Company, The. (See Wilber, Hugh L., assignor.)

Wilbur, Merritt D., Rochester, F. P. Cannon, Syracuse, and T. J. Murphy, Rochester, N. Y. Carbonizing articles and apparatus for same. No. 1,350,483; Aug. 24; v. 277; p. 630.

Wilbur, Stephen B., Akron, Ohio. Tire-spreader. No. 1,349,990; Aug. 17; v. 277; p. 487.

Wilcox, Charles M., assignor of one-half to C. H. Harris, New Paris, Ohio. Steam production. No. 1,350,350; Aug. 24; v. 277; p. 603.

Wild, Arnold, Danielson, Conn., assignor to Draper Corporation, Hopedale, Mass. Tension device for shuttles. No. 1,350,630; Aug. 24; v. 277; p. 659.

Wile, Solomon, Rochester, N. Y. Slicing-machine. No. 1,350,048; Aug. 17; v. 277; p. 498.

Wile, Solomon, Rochester, N. Y. Slicing-machine. No. 1,350,049; Aug. 17; v. 277; p. 498.

Wilhelmi, Dirk F., Doorwerth, Netherlands. Vulcanizing-mold for boots and shoes. No. 1,349,796; Aug. 17; v. 277; p. 450.

Wilkens, Jacob K., Muscatine, Iowa. Rectal tube. No. 1,350,981; Aug. 24; v. 277; p. 725.

Wilkinson, Glenn A. (See Kain, H., Miles, and Wilkinson.)

Wilkinson, Nathan, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Squirrel-cage winding construction. No. 1,351,270; Aug. 31; v. 277; p. 844.

Wilkinson, Nathan, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Method of and apparatus for electric welding. No. 1,351,271; Aug. 31; v. 277; p. 845.

Willard, Thomas, San Bruno, Calif. Electrode-holder. No. 1,348,530; Aug. 3; v. 277; p. 77.

Willett, Frank N. L., Aurora, Ill. Sheep-shears. No. 1,348,914; Aug. 10; v. 277; p. 203.

Willey, Isaac F., Philadelphia, Pa. Retaining device for laundried collars. No. 1,349,643; Aug. 17; v. 277; p. 420.

Willey, Isaac F., Philadelphia, Pa. Ironing collars. No. 1,350,583; Aug. 24; v. 277; p. 650.

Williams, Anthony F., assignor to North East Electric Company, Rochester, N. Y. Circuit-controller. No. 1,350,759; Aug. 24; v. 277; p. 683.

Williams, Charles R., Omaha, Nebr. Hat-ventilator. No. 1,350,535; Aug. 24; v. 277; p. 640.

Williams, Chester L., Chapin, Ill. Gate-hinge. No. 1,349,797; Aug. 17; v. 277; p. 450.

Williams, Edward H., New Orleans, La. Savings safety-box. No. 1,348,768; Aug. 3; v. 277; p. 123.

Williams, Edward R., Sharpsburg, Pa. Disinfecting or deodorizing device. No. 1,349,703; Aug. 17; v. 277; p. 432.

Williams, Glen L., New York, N. Y., assignor, by mesne assignments, to H. W. Campbell, Detroit, Mich. Electrically depositing aluminium. No. 1,351,144; Aug. 31; v. 277; p. 819.

Williams, H. B. (See Dyer, Robert J., assignor.)

Williams, John D., Charlotte, N. C. Bass-drum-operating mechanism. No. 1,350,195; Aug. 17; v. 277; p. 527.

Williams, Joseph S., Riverton, N. J. Plant for concrete construction. No. 1,349,992; Aug. 17; v. 277; p. 487.

Williams, Joseph S., Riverton, N. J. Waterway reinforced concrete construction and constructing same. No. 1,350,690; Aug. 24; v. 277; p. 670.

Williams, Louis H., St. Joseph, Mo. Oil-cup. No. 1,350,196; Aug. 17; v. 277; p. 527.

Williams, Louis N. D., Ogonts, Pa. Device for transferring and doubling knitted webs. No. 1,348,195; Aug. 3; v. 277; p. 12.

Williams, Lynn A., *et al.*, trustees. (See Bradbury, Clifford C., assignor.)
Williams, Lynn A., Evanston, Ill. Vacuum-tank. No. 1,349,993; Aug. 17; v. 27; p. 488.
Williams, Melford L., and E. G. Kemper, Dallas, Tex. Cotton-separator. No. 1,349,142; Aug. 10; v. 277; p. 248.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Sliding base for grinders. No. 1,350,691; Aug. 24; v. 277; p. 670.
Williams Patent Crusher & Pulveriser Co. (See Williams, Milton F., assignor.)
Williams, Richard J., assignor of one-half to P. Grassi, San Francisco, Cal. Sash-balance. No. 1,350,584; Aug. 24; v. 277; p. 650.
Williams, William L., Jr., assignor to The Koppers Company, Pittsburgh, Pa. Pusher-ram-changing station. No. 1,351,224; Aug. 31; v. 277; p. 835.
Williamson, Edwin. (See Hunter, J. W., and Williamson.)
Willingham, John W., Honolulu, Hawaii. Ash-tray. No. 1,348,676; Aug. 3; v. 277; p. 106.
Willis, Frank L., and H. O. Thomas, Santa Rosa, Calif. Tire-rim tool. No. 1,349,541; Aug. 10; v. 277; p. 327.
Willis, Glenn H., assignor to The Miller Rubber Company, Akron, Ohio. Separable core. No. 1,348,612; Aug. 3; v. 277; p. 94.
Williston, Benjamin F. (See Mock, J. C., Williston, and Fitzgerald.)
Willma, John T., *et al.* (See Willma, Theodor J., assignor.)
Willma, Theodor J., assignor of one-eighth to P. Waraxa and one-eighth to J. T. Willma, Milwaukee, Wis. Toe-steamer. No. 1,348,340; Aug. 3; v. 277; p. 42.
Wills, Frank M., Elgin, Ill. Tonneau-table for automobiles and the like. No. 1,348,613; Aug. 3; v. 277; p. 94.
Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)
Willys-Overland Company, The. (See McKinley, Charles W., assignor.)
Wilsmore, John, Woollahra, near Sydney, New South Wales, Australia. Pneumatic dust-collecting system and apparatus therefor. No. 1,349,480; Aug. 10; v. 277; p. 315.
Wilson & Co., Inc. (See Blockson, Berget H., assignor.)
Wilson, Dalton K., Waterloo, Iowa. Cultivator. No. 1,350,050; Aug. 17; v. 27; p. 499.
Wilson, George A. (See Pickup, John H., assignor.)
Wilson, James S., Scranton, Pa. Grate. No. 1,349,644; Aug. 17; v. 277; p. 420.
Wilson, James W. (See Bone, W. A., Wilson, and McCourt.)
Wilson, Lloyd, Keswick, England. Gas-burner. No. 1,350,051; Aug. 17; v. 277; p. 499.
Wilson, Lydell L., Randolph, N. Y. Building reinforced railway-beds. No. 1,350,760; Aug. 24; v. 277; p. 684.
Wilson, Walter, Meridian, assignor of one-half to R. Barnum, Nampa, Idaho. Tool-handle oiler. No. 1,349,931; Aug. 17; v. 27; p. 475.
Wilson, William A., Birmingham, England. Sliding window and its frame. No. 1,351,315; Aug. 31; v. 277; p. 854.
Wilson, William E., Mason City, Iowa. Wall construction. No. 1,350,390; Aug. 24; v. 277; p. 618.
Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)
Winchester Repeating Arms Company. (See Staples, Arthur L., assignor.)
Windahl, Henry, New Sharon, Iowa. Sanitary chicken-roost. No. 1,349,031; Aug. 10; v. 277; p. 226.
Windahl, Henry, assignor of one-third to A. M. Evans, New Sharon, Iowa. Poultry-roost. No. 1,351,456; Aug. 31; v. 277; p. 882.
Windsor, Cecil S., London, England. Self-locking pivoted joint. No. 1,349,032; Aug. 10; v. 277; p. 227.
Winer, Isaac P., Warsaw, Russian Poland. Apparatus for treating feed-water. No. 1,348,196; Aug. 3; v. 277; p. 12.
Winz, Roy E., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,351,082; Aug. 31; v. 277; p. 807.
Wingfield, Bernard R., West Drayton, England. Power-transmission toothed gearing. No. 1,351,597; Aug. 31; v. 277; p. 910.
Winkley, Erastus E., Lynn, Mass. Machine for packaging materials. No. 1,348,341; Aug. 3; v. 277; p. 42.
Winn, Charles A., assignor to Chicago Bearings Company, Chicago, Ill. Roller-bearing. No. 1,349,307; Aug. 10; v. 277; p. 281.
Winslow, Charles H., *et al.* (See Kipp, George E., assignor.)
Winslow, Francis A., Chicago, Ill. Window. No. 1,351,083; Aug. 31; v. 277; p. 807.
Winslow, Hardin E., assignor of one-fourth to R. C. Wisner, Spokane, Wash. Motor-vehicle. No. 1,348,385; Aug. 3; v. 277; p. 50.
Winslow, Paul T., *et al.* (See Kipp, George E., assignor.)
Winslow Safety High-Pressure Boiler Company. (See Winslow, William H., assignor.)
Winslow, William H., assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill. Removable plug for boilers and the like. No. 1,348,915; Aug. 10; v. 277; p. 204.
Winslow, William H., River Forest, assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill. Fuel-feed system. No. 1,348,916; Aug. 10; v. 277; p. 204.
Winston, Gilmer, Memphis, Tenn. Film-developing tank. No. 1,350,761; Aug. 24; v. 277; p. 684.
Winston, Overton, Minneapolis, Minn. Headlight. No. 1,349,595; Aug. 17; v. 277; p. 411.
Winther, Anthony, assignor to Harwin Truck Corporation, Kenosha, Wis. Differential-drive mechanism. No. 1,351,084; Aug. 31; v. 277; p. 808.
Wirth-Frey, Elias, Aarau, Switzerland. Producing foam in liquids. No. 1,351,089; Aug. 31; v. 277; p. 809.
Wirth, Jonn, New York, N. Y. Soap-holder. No. 1,350,585; Aug. 24; v. 277; p. 650.
Wisconsin Chair Company, The. (See Travers, Ray, assignor.)
Wise, Clarence E., Washington, D. C. Portable hand-tool for stretching, tightening, and twisting the free ends of wire lengths. No. 1,351,598; Aug. 31; v. 277; p. 910.
Wisner, Charles E. (See Arnold, Philip S., assignor.)
Wisner, Rolla C. (See Winslow, Hardin E., assignor.)
Wiswall, William J., Portland, Oreg. Manifolding device. No. 1,349,865; Aug. 17; v. 277; p. 463.
Withrow, Floyd G., Grand Rapids, Mich. Oil-alarm device. No. 1,349,891; Aug. 17; v. 277; p. 487.
Witt, James C., Cairo, Ill. Fire-fighting apparatus. No. 1,351,085; Aug. 31; v. 277; p. 808.
Witt, John F., Winchendon, Mass. Clean-out header for sewer-entrances. No. 1,349,245; Aug. 10; v. 277; p. 269.
Witter, Claude A., Philadelphia, Pa. Manufacturing metallic shapes. No. 1,348,677; Aug. 3; v. 277; p. 106.
Witter, Claude A., Philadelphia, Pa. Railway-rail. No. 1,348,678; Aug. 3; v. 277; p. 106.
Wittich, Henry T., Ashtabula, Ohio. Fastening device for vehicle-tops. No. 1,348,917; Aug. 10; v. 277; p. 204.
Wodraska, Walter J., New York, N. Y. Player-piano action. No. 1,349,481; Aug. 10; v. 277; p. 315.
Wohlpart, August J. (See Onderdonk, L., and Wohlpart.)
Wohlmann, Friedrich, Los Angeles, Calif. Extension-table. No. 1,351,457; Aug. 31; v. 277; p. 882.
Wolf, Rufus P., *et al.* (See Kay, Samuel P., assignor.)
Wolfe, Harry M., New York, N. Y. Wing. No. 1,348,679; Aug. 3; v. 277; p. 107.
Wolfe, Michael, Chicago, Ill., assignor, by mesne assignments, to Wolff Coal Saver Company. Fuel-saving apparatus. No. 1,348,918; Aug. 10; v. 277; p. 204.
Wolff, Charles, Chicago, Ill., assignor, by mesne assignments, to Wolff Coal Saver Company. Fuel-saver. No. 1,348,919; Aug. 10; v. 277; p. 204.
Wolff Coal Saver Company. (See Goldberg, Herman, assignor.)
Wolff Coal Saver Company. (See Wolfe, Michael, assignor.)
Wolff Coal Saver Company. (See Wolff, Charles, assignor.)
Wolff, Franklyn J., Trenton, N. J. Casting articles of clay. No. 1,351,599; Aug. 31; v. 277; p. 911.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine. No. 1,350,762; Aug. 24; v. 277; p. 684.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Indicator for Phonograph-reproducers. No. 1,350,763; Aug. 24; v. 277; p. 684.
Wolffsohn, Lionel M., now by judicial change of name Lionel M. Woolson, Union, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,349,866; Aug. 17; v. 277; p. 464.
Wolters, Carl F. (See Dick, R. H., Wolters, and Sutter.)
Woltz, Albert M., assignor to S. Himmel, Baltimore, Md. Door-equalizer. No. 1,348,680; Aug. 3; v. 277; p. 107.
Wonser, Jerry H., Eureka, Wash. Sand-box. No. 1,349,704; Aug. 17; v. 277; p. 432.
Wood, A. J., Greenville, assignor to Bennett Injector Company, Muskegon, Mich. Grease container and dispenser for heavy greases. No. 1,349,994; Aug. 17; v. 277; p. 488.
Wood, Frank W., Indianapolis, Ind., assignor to The Danville Brick Company, Danville, Ill. Paving-brick and making same. No. 1,350,764; Aug. 24; v. 277; p. 684.
Wood, Leander W., Fontanelle, Iowa. Tire. No. 1,348,614; Aug. 3; v. 277; p. 94.
Wood, Louis E., Farrell, Pa. Spring-leaf spreader and lubricator. No. 1,351,272; Aug. 31; v. 277; p. 845.
Wood, Louis E., Farrell, Pa. Soap-container. No. 1,351,273; Aug. 31; v. 277; p. 845.
Wood, Louis E., Farrell, Pa. Curtain-stretcher. No. 1,351,274; Aug. 31; v. 277; p. 845.
Wood, Orlo L., Lansing, Mich. Gage. No. 1,351,600; Aug. 31; v. 277; p. 911.
Wood, Walter, Bay City, Oreg. Attachment for shoes. No. 1,350,197; Aug. 17; v. 277; p. 527.
Wood, William O., Riverside, R. I. Device for conserving fuel. No. 1,349,482; Aug. 10; v. 277; p. 315.
Wood, Winfield C., Minneapolis, Minn. Tire-patch. No. 1,348,466; Aug. 3; v. 277; p. 66.
Woodcock, Willard J., Brooklyn, N. Y. Adjustable distributer for internal-combustion engines. No. 1,349,808; Aug. 10; v. 277; p. 282.
Woodley, Oscar L., *et al.* (See Holmes, Anderson M., assignor.)

Woodrow, Oliver B., Newton, Iowa. Wringer-control mechanism. No. 1,350,692; Aug. 24; v. 277; p. 670.
Woodruff, George N., Hugo, Okla., assignor of one-half to T. D. Bruce, Paris, Tex. Linting-machine. No. 1,349,179; Aug. 10; v. 277; p. 256.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Woodward, Garrett W., Chicago, Ill., assignor, by mesne assignments, to American Automatic Products Corporation. Self-operating talking-machine. No. 1,349,705; Aug. 17; v. 277; p. 433.
Woolf, Frank A., Wichita, Kan. Wheel-cultivator. No. 1,350,906; Aug. 24; v. 277; p. 710.
Woolhouse, Herbert, deceased; Woolhouse, administrator, Norwood, R. I. Hatpin-point protector. No. 1,349,309; Aug. 10; v. 277; p. 282.
Woolhouse, Walter, administrator. (See Woolhouse, Herbert.)
Woolsey, Nicholas I., New York, N. Y. Rail. No. 1,350,198; Aug. 17; v. 277; p. 527.
Woolson, Lionel M. (See Wolffsohn, Lionel M.)
Worcester, Ira D., Pittsburgh, Pa. Light-projecting lantern. No. 1,349,706; Aug. 17; v. 277; p. 433.
Worobel, William, Lansing, Mich. Screen. No. 1,351,275; Aug. 31; v. 277; p. 846.
Worthington Ball Company. (See Worthington, G. C., and Reichard, assignors.)
Worthington, George C., and W. E. Reichard, assignors to Worthington Ball Company, Elyria, Ohio. Golf-ball. No. 1,351,145; Aug. 31; v. 277; p. 810.
Worthington, Henry R. (See Berrigan, John J., assignor.)
Worthington Pump and Machinery Corporation. (See McBride, Thomas C., assignor.)
Worthington, Thomas E., Kansas City, Mo. Hydrocarbon fuel burner. No. 1,350,199; Aug. 17; v. 277; p. 528.
Wosiewski, John, Nanticoke, Pa. File-protector. No. 1,349,596; Aug. 17; v. 277; p. 411.
Wray, Leonard E., Minneapolis, Minn. Grain-spout mechanism. No. 1,349,354; Aug. 10; v. 277; p. 291.
Wright, Charles F., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making boxes. No. 1,348,197; Aug. 3; v. 277; p. 12.
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Underreamer. No. 1,350,765; Aug. 24; v. 277; p. 765.
Wright, H. A., *et al.* (See Hachmann, Frederick, assignor.)
Wright, Ida C. (See Wright, Wilfred J., assignor.)
Wright, John L., Chicago, Ill. Toy cabin construction. No. 1,351,086; Aug. 31; v. 277; p. 808.
Wright, Joseph L., assignor to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,350,536; Aug. 24; v. 277; p. 640.
Wright Roller Bearing Company. (See Miller, Alfred H., assignor.)
Wright, Walter, New York, N. Y., assignor, by mesne assignments, to Underwood Computing Machine Company. Combined typewriting and computing machine. No. 1,349,246; Aug. 10; v. 277; p. 269.
Wright, Walter, New York, N. Y., assignor, by mesne assignments, to Underwood Computing Machine Company. Combined typewriting and computing machine. No. 1,349,247; Aug. 10; v. 277; p. 270.
Wright, Wilfred J., assignor to I. C. Wright, Summit, N. J. Fountain-brush. No. 1,348,681; Aug. 3; v. 277; p. 107.
Wright, Winthrop B. (See Martel, F. J., Briggs, Macaulay, Wright, and Wenner.)
Wrinkle, Noah, and W. A. Kuhnert, San Francisco, Calif. Separately obtaining potassium chlorid and borax from certain waters. No. 1,350,089; Aug. 17; v. 277; p. 506.
Wrinkle, Noah, and W. A. Kuhnert, San Francisco, Calif. Separating borax from potassium chlorid. No. 1,350,090; Aug. 17; v. 277; p. 506.
Wronowski, Piotr, Youngstown, Ohio. Mechanical toy. No. 1,348,386; Aug. 3; v. 277; p. 51.
Wurts, Edward V., Newark, and B. S. Pero, Jersey City, N. J., assignors to Steel Utilities, Incorporated. Controlling system for metal-working machines. No. 1,349,995; Aug. 17; v. 277; p. 488.
Wurts, Edward V., Newark, N. J., assignor to Steel Utilities, Incorporated. Distance-determining mechanism for metal-working machines. No. 1,349,996; Aug. 17; v. 277; p. 488.
Wybert, Ernst. (See Hartmann, M., and Wybert.)
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Lubricating device. No. 1,348,769; Aug. 3; v. 277; p. 123.
Wynne, Edward W., Liverpool, England. Treatment of petroleum and like oils. No. 1,351,458; Aug. 31; v. 277; p. 882.
Yadgir, David, Chicago, Ill. Reversible window. No. 1,351,316; Aug. 31; v. 277; p. 854.
Yanik, John, Coplay, Pa. Ice-creeper. No. 1,349,542; Aug. 10; v. 277; p. 327.
Xardell, Charles A., Utica, N. Y. Electric heater. No. 1,350,586; Aug. 24; v. 277; p. 651.
Xardell, Charles A., Utica, N. Y. Electric heater. No. 1,350,631; Aug. 24; v. 277; p. 659.
Yale & Towne Manufacturing Company, The. (See Crouch, Thomas E., assignor.)
Yanai, Teizo, assignor to N. D. K. K. Kaisha, Tokyo, Japan. Method for forming conducting-seals for incandescent-lamp bulbs or the like. No. 1,350,907; Aug. 24; v. 277; p. 710.
Yarrow, Harold E., Glasgow, Scotland. Circulation in water-tube boilers. No. 1,350,200; Aug. 17; v. 277; p. 528.
Yeager, Matthias S., assignor to The Colmar Burner Company, San Francisco, Calif. Hydrocarbon-generator. No. 1,349,932; Aug. 17; v. 277; p. 475.
Yeakel, George P., Norristown, Pa. Shears. No. 1,349,180; Aug. 10; v. 277; p. 256.
Yeoman, Cyril, Herne Hill, England. Filtration and/or percolation of liquids. No. 1,349,798; Aug. 17; v. 277; p. 450.
Yeomans, Oreta L., Kis-Lyn, Pa. Bracket. No. 1,350,400; Aug. 24; v. 277; p. 613.
Yerkes, Wilmer H., Pittsburgh, Pa. Sled. No. 1,349,645; Aug. 17; v. 277; p. 421.
Yeso, Paul, Dodgeville, Mich. Flying-machine. No. 1,350,201; Aug. 17; v. 277; p. 528.
Yokel, Frank, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lamp-fixture. No. 1,349,483; Aug. 10; v. 277; p. 316.
Yokel, Frank, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Oil-heater. No. 1,349,484; Aug. 10; v. 277; p. 316.
Yokel, Frank, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lighting-fixture. No. 1,349,485; Aug. 10; v. 277; p. 316.
York, Henry J., San Francisco, Calif. Holder for containers. No. 1,350,908; Aug. 24; v. 277; p. 711.
Young, John H., Bartlesville, Okla. Ax. No. 1,348,920; Aug. 10; v. 277; p. 205.
Young, Patrick J., Philadelphia, Pa. Support. No. 1,349,181; Aug. 10; v. 277; p. 256.
Young, William, Tacoma, Wash. Condenser-tank for refrigerating and ice-making machines. No. 1,349,746; Aug. 17; v. 277; p. 441.
Young, William, Detroit, Mich. Railway-joint. No. 1,350,129; Aug. 17; v. 277; p. 514.
Young, William A., New York, N. Y. Manufacturing grommets. No. 1,348,615; Aug. 3; v. 277; p. 94.
Youngquist, Erik J., Chicago, Ill. Propeller. No. 1,349,403; Aug. 10; v. 277; p. 300.
Zacharias, Leonard L. (See Elliman, E. E., Kell, and Zacharias.)
Zahnow, Herman, Balfour, N. D. Windmill. No. 1,349,182; Aug. 10; v. 277; p. 256.
Zajac, Leopold, Seattle, Wash. Pipe-threading machine. No. 1,340,646; Aug. 17; v. 277; p. 421.
Zakarka, Joseph, Brooklyn, N. Y. Sugar-packing machine. No. 1,350,130; Aug. 17; v. 277; p. 514.
Zarger, Boyd U. (See Lancit, L. A., and Zarger.)
Zeh, Edmund W., Newark, N. J. Power-press. No. 1,349,033; Aug. 10; v. 277; p. 227.
Zeidler, Ernest, Marshfield, Wis. Cheese-box. No. 1,350,900; Aug. 24; v. 277; p. 711.
Zelner-Henriksen, Hans T., Christiania, Norway. Adjustable compass-dial. No. 1,349,455; Aug. 10; v. 277; p. 310.
Zeitz, Hugo C., Monessen, Pa. Shade, curtain, and drapery holder. No. 1,349,933; Aug. 17; v. 277; p. 476.
Zenitheron Company. (See Sutter, Roer B., assignor.)
Zera, Piotr, Schenectady, N. Y. Cigar-piercer. No. 1,349,248; Aug. 10; v. 277; p. 270.
Zerlini, Alessandro, Brescia, Italy. Extensible ladder. No. 1,351,146; Aug. 31; v. 277; p. 819.
Zieche, Paul R., Moville township, Woodbury county, assignor of one-half to W. Haviland, Moville, Iowa. Wrench. No. 1,348,342; Aug. 3; v. 277; p. 42.
Zielezinski, Stefan, Boston, Mass. Shipping-package. No. 1,348,682; Aug. 3; v. 277; p. 107.
Zimmerman, Charles P., Dayton, Ohio, assignor, by mesne assignments, to The Richmond-Standard Manufacturing Company, Richmond, Ind. Stock-rack. No. 1,348,343; Aug. 3; v. 277; p. 42.
Zimmerman, Clarence C., assignor to National Surface Guard Company, Chicago, Ill. Rail-saw. No. 1,348,616; Aug. 3; v. 277; p. 94.
Zimmermann, Hans J., assignor, by mesne assignments, to The G. A. Buhl Company, Chicago, Ill. Liquid and gas contact apparatus. No. 1,350,202; Aug. 17; v. 277; p. 528.
Zink, James L., Indianapolis, Ind. Arch-support. No. 1,349,355; Aug. 10; v. 277; p. 291.
Zion, Isidor, Ridgefield, N. J. Toy-device. No. 1,348,921; Aug. 10; v. 277; p. 205.
Zircon Tool & Alloy Corporation. (See Cooper, Hugh S., assignor.)
Zoch, Stefan, Munising, Mich. Baby-walker. No. 1,350,401; Aug. 24; v. 277; p. 613.
Zorger, William H., Champaign, Ill. Electric headlight. No. 1,348,617; Aug. 3; v. 277; p. 95.
Zorger, William H., Champaign, Ill. Lens for automobiles. No. 1,348,618; Aug. 3; v. 277; p. 95.
Zouri Drawn Metals Company. (See Murnane, Daniel J., assignor.)
Zsarnay, Béla, Belleville, N. J. Automatic vehicle toy. No. 1,351,147; Aug. 31; v. 277; p. 820.
Zycki, Alfons, Baltimore, Md. Hall utensil. No. 1,348,619; Aug. 3; v. 277; p. 95.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

A. & J. Manufacturing Co., The. (See Johnson, Edward H., assignor.)
Allard, Maurice L. A. A., Akron, assignor to W. H. Milliken, Cleveland, Ohio. Tire-tread. No. 56,113; Aug. 24; v. 277; p. 733.
Allen, Edgar W., Campbell, Calif. Adjustable industrial seat. No. 55,927; Aug. 3; v. 277; p. 136.
Anderson, John F., San Francisco, Calif. Automobile direction and stop signal. No. 56,048; Aug. 10; v. 277; p. 344.
Aronson, Louis V., Newark, N. J. Combined cigar-lighter and inkstand. No. 56,093; Aug. 17; v. 277; p. 548.
Aronson, Louis V., Newark, N. J. Kazoo. No. 56,114; Aug. 24; v. 277; p. 733.
Athens Shipbuilding Corporation. (See Case, John E., assignor.)
Barbers Electric Specialty Company, The. (See Coffman, Samuel M., assignor.)
Becherer, George, St. Louis, Mo. Heel-plate. No. 55,971; Aug. 10; v. 277; p. 330.
Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. Nos. 56,215–16; Aug. 31; v. 277; p. 936.
Belden, Edward H., assignor to Industrial Research Corporation, Toledo, Ohio. Automobile splash-board. No. 56,094; Aug. 17; v. 277; p. 548.
Belott, Patsy, Clarksburg, W. Va. Clock-case. No. 55,972; Aug. 10; v. 277; p. 330.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Jules H. (See Mertz, Otto L., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plug-cluster. No. 55,973; Aug. 10; v. 277; p. 330.
Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Speedometer face-plate. No. 55,974; Aug. 10; v. 277; p. 330.
Berkey, Charles A., Highland Park, Mich. Badge, button, or emblem. No. 56,115; Aug. 24; v. 277; p. 733.
Berry, Louis J., and H. Smith, Yale, Okla. Key-ring. No. 56,116; Aug. 24; v. 277; p. 734.
Bigelow Hartford Carpet Company. (See Speck, James G., assignor.)
Bissbing, Charles F. (See Weinberg, I. H., and Bissbing.)
Bixler, Henry B., Akron, assignor to The Chillicothe Tire and Rubber Company, Chillicothe, Ohio. Tire-tread. No. 56,217; Aug. 31; v. 277; p. 936.
Blanch & Company. (See Kumalehto, Thyra O., assignor.)
Bosserman, H. H., administrator. (See Bosserman, Joseph F.)
Bosserman, Joseph F., deceased, Staunton, Va., H. H. Bosserman, administrator. Phonograph case or cabinet. No. 56,218; Aug. 31; v. 277; p. 936.
Bowman, David W. (See Hinegardner, F. G., and Bowman.)
Boyce, Cecil M., Westcliff-on-Sea, Essex, England. Air-pump-nozzle connection. No. 55,975; Aug. 10; v. 277; p. 330.
Bradfield, Fred E., Davenport, Iowa. Rear-end portion of an automobile-body. No. 56,219; Aug. 31; v. 277; p. 937.
Brass Goods Mfg. Co. (See Brill, Hazel, assignor.)
Brill, Hazel, Brooklyn, assignor to Brass Goods Mfg. Co., New York, N. Y. Container. No. 56,095; Aug. 17; v. 277; p. 548.
Bristol, George W., assignor of one-half to N. G. Jensen, Syracuse, N. Y. Phonograph-cabinet. No. 56,117; Aug. 24; v. 277; p. 734.
Brown, Lanville A., Kansas City, Mo. Bed. No. 55,928; Aug. 3; v. 277; p. 136.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Motion-picture camera or the like. No. 55,976; Aug. 10; v. 277; p. 330.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Supporting-frame for motion-picture machines. No. 55,977; Aug. 10; v. 277; p. 331.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Camera-case. No. 55,978; Aug. 10; v. 277; p. 331.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship. Magazine for motion-picture machines. No. 55,979; Aug. 10; v. 277; p. 331.
Buffalo Dental Manufacturing Company. (See Lewis, Theodore G., assignor.)
Burns, Thomas C., and F. K. Huffman, assignors to Hayes Wheel Company, Jackson, Mich. Wheel-hub. No. 56,220; Aug. 31; v. 277; p. 937.
Case, John E., assignor to Athens Shipbuilding Corporation, New York, N. Y. Burial-casket. No. 56,096; Aug. 17; v. 277; p. 548.
Case, Willard T., New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis. Grass mat. Nos. 55,929–35; Aug. 3; v. 277; pp. 136–7.
Central Oil & Gas Stove Company. (See White, Fred E., assignor.)
Champion Ignition Company. (See Berge, Joseph, assignor.)
Chance, Albert B., Centralia, Mo. Anchor-rod. No. 56,118; Aug. 24; v. 277; p. 734.
Charles William Stores. (See Ehrlicher, Victor, assignor.)
Charles William Stores, The. (See Holbrook, Rufus H., assignor.)
Cheeks, Arthur, Birmingham, Ala. Smoker's stand. No. 56,221; Aug. 31; v. 277; p. 937.
Cheley, Frank H., Denver, Colo., assignor to The International Committee of The Young Men's Christian Association, New York, N. Y. Badge, emblem, insignia, or article of similar nature for a Young Men's Christian Association sweater front or for like personal wear. No. 55,936; Aug. 3; v. 277; p. 137.
Chesnutt, John L., assignor to The Service Caster & Truck Company, Kansas City, Mo. Swivel-caster. No. 55,980; Aug. 10; v. 277; p. 331.
Chillicothe Tire and Rubber Company, The. (See Bixler, Henry B., assignor.)
Chordas, Julius W., Los Angeles, Calif. Automobile-body. No. 56,222; Aug. 31; v. 277; p. 937.
Cleveland Candle Company, The. (See Moyer, George A., assignor.)
Coffman, Samuel M., Kansas City, Mo., assignor to The Barbers Electric Specialty Company. Hair-cutting-machine frame. No. 56,223; Aug. 31; v. 277; p. 937.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Arm comprising a lighting-fixture part. No. 55,937; Aug. 3; v. 277; p. 137.
Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Lighting-fixture canopy. No. 55,938; Aug. 3; v. 277; p. 138.
Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Socket-cover. No. 55,939; Aug. 3; v. 277; p. 138.
Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Bracket-oval. No. 56,049; Aug. 10; v. 277; p. 344.
Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Lighting-fixture oval plate. No. 56,050; Aug. 10; v. 277; p. 344.
Cohn, Harry, assignor to Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Lighting-fixture shower-plate. No. 56,051; Aug. 10; v. 277; p. 344.
Cole, George F., assignor of three-eighths to J. G. McCall, Oakland, Calif. Ornamental figure for radiator-caps of automobiles. No. 55,981; Aug. 10; v. 277; p. 331.
Compania Nacional de Perfumeria. (See Dunnock, John L., assignor.)
Conneaut Metal Works. (See Lumley, Wilfrid, assignor.)
Continental Sheffield Silver Co. (See Gaertner, Victor, assignor.)
Copeland, Adolph. (See Thomsen, Max, assignor.)
Cornish, Harry S., Chicago, Ill. Draft-arm for liquid-dispensing apparatus. No. 55,940; Aug. 3; v. 277; p. 138.
Corson, Lance S., Colorado Springs, Colo. Pennant. No. 56,070; Aug. 10; v. 277; p. 347.
Cox Brass Mfg. Company. (See Cox, Theodore M., assignor.)
Cox, Theodore M., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-buffer. Nos. 56,224–6; Aug. 31; v. 277; p. 937.
Crisenberry, Benjamin F., Indianapolis, Ind. Food-masher. No. 56,119; Aug. 24; v. 277; p. 734.
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Wall-plate for lighting-fixtures. No. 56,052; Aug. 10; v. 277; p. 344.
Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Handle for a spoon, fork, or similar article. Nos. 55,982–3; Aug. 10; v. 277; p. 332.
Curley, Terence F., Brooklyn, N. Y. Knife-sharpener. No. 56,227; Aug. 31; v. 277; p. 938.
De Kasarine, Serge. (See de Porohovchikova, M., and de Kasarine.)
Dell, Albert. (See Dell, William R., assignor.)
Dell, William R., assignor of one-half to A. Dell, Philadelphia, Pa. Can-opener. No. 55,984; Aug. 10; v. 277; p. 332.
Deltox Grass Rug Company. (See Case, Willard T., assignor.)
Democracy Playing Card Company. (See Gaffney, James C., assignor.)
De Porohovchikova, Mary, and S. de Kasarine, London, England. Dressed doll. Nos. 55,955–6; Aug. 3; v. 277; p. 141.

De Richelieu, William E., and A. D. Wagner, Philadelphia, Pa. Label for poison-bottles. No. 55,985; Aug. 10; v. 277; p. 332.
De Sibour, Jules H., Washington, D. C. Hatband. No. 56,120; Aug. 24; v. 277; p. 734.
De Vries, Herman E., and C. C. Kusterer, Grand Rapids, Mich. Furniture-leg. No. 56,053; Aug. 10; v. 277; p. 344.
Diamond Match Company, The. (See Traute, Henry C., assignor.)
Di Carlo, Donato, Philadelphia, Pa. Sound-conducting device for talking-machines. No. 55,986; Aug. 10; v. 277; p. 332.
Dlacich, Andrew, Columbus, Ohio. Pick. No. 56,054; Aug. 10; v. 277; p. 345.
Dominick & Haff. (See Crowell, Gilbert L., Jr., assignor.)
Donaldson, Albert S. (See Schultz, Raymond A., assignor.)
Dreyfach, Max D., New York, N. Y. Article of manufacture—namely, a pillow-top or article of similar nature. No. 56,121; Aug. 24; v. 277; p. 735.
Duersten, William E., New Castle, Pa. Non-skid tire. No. 55,987; Aug. 10; v. 277; p. 332.
Duncan, John A., Jr., St. Joseph, Mo. Button. No. 55,941; Aug. 3; v. 277; p. 138.
Dunnock, John L., Baltimore, Md., assignor to Compania Nacional de Perfumeria, Habana, Cuba. Bottle. No. 55,988; Aug. 10; v. 277; p. 333.
Eagleneld, Frederick R., Niles, Mich., assignor to Kawneer Manufacturing Company, Niles, Mich. Automobile-bumper. No. 56,055; Aug. 10; v. 277; p. 345.
Ehrlicher, Victor, assignor to Charles William Stores, Inc., Brooklyn, N. Y. Tire. No. 56,122; Aug. 24; v. 277; p. 735.
Elgin National Watch Company. (See Goodrow, Francis A., assignor.)
Elmquist, Charles L., St. Paul, Minn. Talking-machine cabinet. No. 55,989; Aug. 10; v. 277; p. 333.
Evans, Howard S., Pittsburgh, Pa. Glass cover for a dish. No. 56,228; Aug. 31; v. 277; p. 938.
Faas, William F., Cleveland, Ohio. Stand. No. 56,097; Aug. 17; v. 277; p. 548.
Fahys, Joseph, & Company. (See Harman, Charles W., assignor.)
Faultless Rubber Company, The. (See Kaupman, Frederick, Jr., assignor.)
Feuerlicht, James, New York, N. Y. Doll. No. 55,942; Aug. 3; v. 277; p. 138.
Findlay, Robert, Manufacturing Company. (See Kostszewski, Stephen, assignor.)
Flanders, A. H., Company. (See Flanders, Alice H., assignor.)
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 55,990–7; Aug. 10; v. 277; pp. 333–5.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 56,056–8; Aug. 10; v. 277; p. 345.
Flannery, Martin A., Boston, Mass., assignor to The Will & Baumer Company, Syracuse, N. Y. Votive-stand. No. 56,059; Aug. 10; v. 277; p. 345.
Fleming, Cordelia D., administratrix. (See Fleming, Thomas, C., assignor.)
Fleming, Thomas C., deceased; Cordelia D. Fleming, administratrix, Vancouver, British Columbia, Canada. Combined cabinet and refrigerator. No. 55,998; Aug. 10; v. 277; p. 335.
Forbes, Walter D., Oakland, Calif. Swimming-cap. No. 56,123; Aug. 24; v. 277; p. 735.
Franklin, Charles B., assignor to Hendee Manufacturing Co., Springfield, Mass. Motorcycle-frame. No. 55,999; Aug. 10; v. 277; p. 335.
Frederick, Samuel B., Detroit, Mich. Rubber heel. No. 56,000; Aug. 10; v. 277; p. 335.
Freeman-Daughaday Co. (See Le Clair, Frank J., assignor.)
French, Eli M., Chicago, Ill. Egg-testing appliance. No. 56,060; Aug. 10; v. 277; p. 346.
French, Ira L., assignor to The Mantle Lamp Company of America, Chicago, Ill. Heat-insulated receptacle. No. 56,061; Aug. 10; v. 277; p. 346.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric candlestick. No. 56,124; Aug. 24; v. 277; p. 735.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric candelabrum. No. 56,125; Aug. 24; v. 277; p. 735.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric floor-lamp. No. 56,126; Aug. 24; v. 277; p. 736.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric bridge-lamp. Nos. 56,127–8; Aug. 24; v. 277; p. 736.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric table-lamp. No. 56,129; Aug. 24; v. 277; p. 736.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric chandelier. No. 56,130; Aug. 24; v. 277; p. 737.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric wall-bracket. Nos. 56,131–2; Aug. 24; v. 277; p. 737.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric chandelier. No. 56,133; Aug. 24; v. 277; p. 737.
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric ceiling-fixture. No. 56,134; Aug. 24; v. 277; p. 737.
Fuld, William, Baltimore, Md. Movable member of a talking-board. No. 56,001; Aug. 10; v. 277; p. 335.
Gaertner, Victor, New York, assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Fruit-knife holder or similar article. No. 56,229; Aug. 31; v. 277; p. 938.
Gaertner, Victor, New York, assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Ear for a handle of bowls or similar articles. No. 56,230; Aug. 31; v. 277; p. 939.
Gaffney, James C., New York, N. Y., assignor to Democracy Playing Card Company, Incorporated. Playing-card. No. 55,943; Aug. 3; v. 277; p. 138.
Garbell, Max, Chicago, Ill. Frame for typewriting-machines. No. 56,002; Aug. 10; v. 277; p. 335.
Garrett & Company. (See Weller, Hubert R., assignor.)
Gellinger, Frederic, Washington, D. C. Automobile-lock. No. 56,135; Aug. 24; v. 277; p. 737.
General Electric Company. (See Gosling, Joseph W., assignor.)
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy-vehicle wheel. No. 56,136; Aug. 24; v. 277; p. 738.
Gilfillan Bros. Smelting & Refining Company. (See Howard, Earl H., assignor.)
Gillam, Ephraim, Columbus, Ohio. Toy wheelbarrow. No. 56,003; Aug. 10; v. 277; p. 336.
Gillman, Eugene, and L. Siegel, Seattle, Wash. Child's romper. No. 56,231; Aug. 31; v. 277; p. 939.
Gleason, Homer E., Seattle, Wash. Lighting-fixture. No. 56,137; Aug. 24; v. 277; p. 738.
Godley, Charles E., Detroit, Mich. Lamp. No. 56,098; Aug. 17; v. 277; p. 548.
Goldsmith Publishing Company, The. (See Vanderkamp, John, assignor.)
Goodrich, B. F., Company, The. (See Tew, James D., assignor.)
Goodrow, Francis A., assignor to Elgin National Watch Company, Elgin, Ill. Watch-dial. No. 56,099; Aug. 17; v. 277; p. 549.
Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Band for a lamp-globe. No. 56,062; Aug. 10; v. 277; p. 346.
Gray, Annie E., Philadelphia, Pa. Coat. No. 55,944; Aug. 3; v. 277; p. 139.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming for an automobile-light or similar article of manufacture. Nos. 56,138–9; Aug. 24; v. 277; p. 738.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle for an automobile-door lock or similar article of manufacture. Nos. 56,140–1; Aug. 24; v. 277; pp. 738–9.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming-plate for an automobile-door lock or similar article of manufacture. No. 56,142; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Plate for an electric switch or similar article of manufacture. No. 56,143; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle construction for an automobile-window regulator or similar article of manufacture. No. 56,144; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle for an automobile-door lock or similar article of manufacture. No. 56,145; Aug. 24; v. 277; p. 739.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming for an automobile domelight or similar article of manufacture. No. 56,146; Aug. 24; v. 277; p. 740.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Plate for an electric switch or similar article of manufacture. No. 56,147; Aug. 24; v. 277; p. 740.
Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle construction for an automobile-window regulator or similar article of manufacture. No. 56,148; Aug. 24; v. 277; p. 740.
Griffith, Benjamin M., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Toy magazine-gun. No. 56,063; Aug. 10; v. 277; p. 346.
Gruelle, John B., Norwalk, Conn. Doll. No. 56,149; Aug. 24; v. 277; p. 740.
Guerin, Joseph, Chicago, Ill. Game-board. No. 56,150; Aug. 24. v. 277; p. 740.
Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Belt. No. 56,151; Aug. 24; v. 277; p. 741.
Guy, Raymond W. (See Merkel, H., and Guy.)
Hall, Peter, Pasadena, Calif. Box. No. 56,152; Aug. 24; v. 277; p. 741.

Harman, Charles W., New Rochelle, assignor to Joseph Fahys & Company, New York, N. Y. Handle for spoons, forks, or the like. No. 56,153; Aug. 24; v. 277; p. 741.
Harpur, James J., Pittsburgh, Pa. Pen-holding attachment for ink-bottles. No. 56,064; Aug. 10; v. 277; p. 346.
Harraden, Amos F. B., Mount Vernon, N. Y. Lighting-fixture. No. 56,154; Aug. 24; v. 277; p. 741.
Haskell, Adam, Lookout Mountain, Tenn. Portable serving-table. No. 55,945; Aug. 3; v. 277; p. 139.
Hayes Wheel Company. (See Burns, T. C., and Huffman, assignors.)
Haselton Brothers. (See Plaisted, William M., assignor.)
Hecox, Seward W., Zeeland, Mich. Phonograph-cabinet. No. 56,232; Aug. 31; v. 277; p. 939.
Heilbrun, Monroe E., New York, N. Y. Emblem, badge, button, or similar article. No. 56,155; Aug. 24; v. 277; p. 741.
Hendee Manufacturing Co. (See Franklin, Charles B., assignor.)
Henry, Orloff, New Orleans, La., assignor to The Pi Kappa Alpha Fraternity, Atlanta, Ga. Fraternity pin or badge. No. 56,156; Aug. 24; v. 277; p. 741.
Hickey, Henry J. (See McMullan, W. E., and Hickey.)
Hickey, Henry J., and W. E. McMullan, Fort Dodge, Iowa. Street-direction and advertising device. No. 56,157; Aug. 24. v. 277; p. 742.
Hinegardner, Francis G., and D. W. Bowman, Toledo, Iowa. Sleigh-knee. No. 56,004; Aug. 10; v. 277; p. 336.
Hinger, John A., Detroit, Mich. Radiator. No. 56,065; Aug. 10; v. 277; p. 346.
Hirsch, Lee, New York, N. Y. Jewelry—namely, a pin, brooch, ring, or article of similar nature. No. 55,946; Aug. 3; v. 277; p. 139.
Hoblitt, Frederic M., New York, N. Y. Individual-seat service-car body. No. 56,233; Aug. 31; v. 277; p. 939.
Holbrook, Rufus H., assignor to The Charles William Stores, Inc., Brooklyn, N. Y. Tire. No. 56,158; Aug. 24; v. 277; p. 742.
Hollister, Julia M., Des Moines, Iowa. Toy chair. No. 56,159; Aug. 24; v. 277; p. 742.
Hollister, Julia M., Des Moines, Iowa. Toy bed. No. 56,160; Aug. 24; v. 277; p. 742.
Hollister, Julia M., Des Moines, Iowa. Animal toy. No. 56,161; Aug. 24; v. 277; p. 742.
Holloway, Harry A., assignor to The King Manufacturing Company, St. Joseph, Mo. Lamp-fixture. Nos. 56,162–3; Aug. 24; v. 277; p. 743.
Honeyman, William A., San Francisco, Calif. Vehicle-operator's heel-rest. No. 56,234; Aug. 31; v. 277; p. 939.
Horn & Brannen Manufacturing Co. (See Frerichs, Frederick A., assignor.)
Horn, Fred A., Denver, Colo. Highway advertising and directing device. No. 55,947; Aug. 3; v. 277; p. 139.
Howard, Earl H., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif. Spot light. No. 56,066; Aug. 10; v. 277; p. 347.
Hubbell, Harvey, Incorporated. (See Newton, William J., assignor.)
Huffman, Frank K. (See Burns, T. C., and Huffman.)
Hurlbut, James H., Los Angeles, Calif. Automobile-bumper. No. 56,235; Aug. 31; v. 277; p. 940.
Hygrade Lighting Fixture Corporation. (See Cohn, Harry, assignor.)
Illinois Automobile Club. (See Rosenbach, David, assignor.)
Industrial Research Corporation. (See Belden, Edward H., assignor.)
Inflexible Company, The. (See Schwarber, Henry, assignor.)
International Committee of The Young Men's Christian Association, The. (See Cheley, Frank H., assignor.)
International Silver Co. (See Beck, Ernest T., assignor.)
International Silver Co. (See Kintz, Alfred G., assignor.)
Jacobi, William J., Washington, D. C. Statuette. No. 56,164; Aug. 24; v. 277; p. 743.
Jassewski, Maryan, Bethlehem, Pa. Curtain-pole holder. No. 56,005; Aug. 10; v. 277; p. 336.
Jensen, Nils G. (See Bristol, George W.)
Jewell, John, Duluth, Minn. Advertising-cabinet. No. 56,165; Aug. 24. v. 277; p. 743.
Johnson, Edward H., assignor to The A. & J. Manufacturing Co., Binghamton, N. Y. Spoon, fork, or similar article. No. 56,236; Aug. 31; v. 277; p. 940.
Jones, Edward H., Snaresbrook, England. Statuette. Nos. 56,166–7; Aug. 24; v. 277; p. 743.
Jones, Palmer J., and P. D. Schreiber, Port Washington, N. Y. Desk. No. 56,168; Aug. 24; v. 277; p. 744.
Jones, Palmer J., and P. D. Schreiber, Port Washington, N. Y. Seat. No. 56,169; Aug. 24; v. 277; p. 744.
Jones, Palmer J., and P. D. Schreiber, Port Washington, N. Y. Combined desk and seat. No. 56,170; Aug. 24; v. 277; p. 744.
Juthe, Stanley N., Newton, and S. H. Lang, Cambridge, Mass. Aerial toy. No. 56,171; Aug. 24; v. 277; p. 744.
Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 56,172; Aug. 24; v. 277; p. 744.
Kaupmann, Frederick, Jr., Brooklyn, N. Y., assignor to The Faultless Rubber Company, Ashland, Ohio. Doll. No. 56,067; Aug. 10; v. 277; p. 347.
Kawneer Manufacturing Company. (See Englesfield, Frederick R., assignor.)
Kearney, John J., Berwyn, and G. H. Winter, Chicago, Ill. Statuette. No. 56,100; Aug. 17; v. 277; p. 549.
Kenner, William, Seattle, Wash. Automobile vase-holder. No. 56,006; Aug. 10; v. 277; p. 336.
King Manufacturing Company, The. (See Holloway, Harry A., assignor.)
Kintz, Alfred G., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 56,237; Aug. 31; v. 277; p. 940.
Kit-Chin-Kit Corporation. (See Lickert, John H., assignor.)
Kleinert, I. B., Rubber Company. (See Guinsburg, Victor, assignor.)
Klotz, Zygmunt, Ralphton, Pa. Picture-frame. No. 56,173. Aug. 24; v. 277; p. 745.
Knaak, George A., Milwaukee, Wis. Controller. No. 56,007; Aug. 10; v. 277; p. 336.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 55,948; Aug. 3; v. 277; p. 139.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Spindle for lighting-fixtures. No. 56,068; Aug. 10; v. 277; p. 347.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Body for lighting-fixtures. No. 56,069; Aug. 10; v. 277; p. 347.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Spindle for lighting-fixtures. No. 56,174; Aug. 24; v. 277; p. 745.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 56,175; Aug. 24; v. 277; p. 745.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Bracket-back for lighting-fixtures. No. 56,176; Aug. 24; v. 277; p. 745.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,949; Aug. 3; v. 277; p. 140.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 56,177–9; Aug. 24; v. 277; p. 745.
Kuhlmann, Wesley W., Woodcliff-on-Hudson, N. J. Automobilist's hand-signal. No. 56,008; Aug. 10; v. 277; p. 336.
Kümalehto, Thyra O., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 56,180; Aug. 24; v. 277; p. 746.
Kusterer, Carl C. (See De Vries, H. E., and Kusterer.)
Le Clair, Frank J., Attleboro, assignor to Freeman-Daughaday Co., Chartley, Mass. Collar-holder. No. 56,238; Aug. 31; v. 277; p. 940.
La Fayette Motors Company. (See White, D'Orsay, assignor.)
Lang, Sidney H. (See Juthe, S. N. and Lang.)
Lasser, Isabel C., Hollis ton, Mass. Middy-blouse. No. 55,950; Aug. 3; v. 277; p. 140.
Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Base for a stand of an electric heater. No. 56,009; Aug. 10; v. 277; p. 337.
Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Dental-cotton holder. No. 56,181; Aug. 24; v. 277; p. 746.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Combination cleaver, perforator, and ice-pick. No. 56,010; Aug. 10; v. 277; p. 337.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Household knife. No. 56,011; Aug. 10; v. 277; p. 337.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Bread-knife. No. 56,012; Aug. 10; v. 277; p. 337.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Arcing-knife. No. 56,013; Aug. 10; v. 277; p. 337.
Lion Electric Appliance Co. (See Ohm, Albert J. D., assignor.)
Lloyd, Marshall B., Menominee, Mich. Table or similar article. Nos. 56,182–3; Aug. 24; v. 277; p. 746.
Lloyd, Shirley S., New York, N. Y. Wall-paper. No. 55,951; Aug. 3; v. 277; p. 140.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. No. 56,071; Aug. 10. v. 277; p. 347.
Loeb, William. (See Weiner, M., and Loeb.)
Loring, Helene V. A., Chicago, Ill. Playing-card. No. 56,072; Aug. 10; v. 277; p. 358.
Lumley, Wilfrid, assignor to Conneaut Metal Works, Conneaut, Ohio. Lamp. No. 56,014; Aug. 10; v. 277; p. 338.
McCall, Joseph G. (See Cole, George F., assignor.)
McKeon, Neal J., Oakland, Calif. Manhole-cover. No. 56,015; Aug. 10. v. 277; p. 338.
McMullan, Warner E. (See Hickey, Henry J.)
McMullan, Warner E., and H. J. Hickey, Fort Dodge, Iowa. Highway-guide device. No. 56,102; Aug. 17; v. 277; p. 549.
Madison, William M., Cleveland, Ohio. Advertising and toy balloon. No. 56,073; Aug. 10; v. 277; p. 348.
Mantle Lamp Company of America, The. (See French, Ira L., assignor.)
Mathieu, Frederick W., assignor to Mitchell Vance Co., Inc., New York, N. Y. Globe for lighting-fixtures. No. 56,074; Aug. 10; v. 277; p. 348.

Mathieu, Frederick W., assignor to Mitchell Vance Co., Inc., New York, N. Y. Holder for a lighting-fixture. No. 55,075; Aug. 10; v. 277; p. 348.
Mayer, Josh W., New York, N. Y. Jewel-setting. No. 55,952; Aug. 3; v. 277; p. 140.
Mecky, A., Company. (See Ledig, Richard G., assignor.)
Merkel, Howard, West Springfield, and R. W. Guy, Longmeadow, Mass. Metal sponge-cup. No. 56,101; Aug. 17; v. 277; p. 549.
Mertz, Otto L., assignor to J. H. Benjamin, Chicago, Ill. Package-tie. Nos. 56,016–18; Aug. 10; v. 277; p. 338.
Miller, Abraham, New York, N. Y. Arm for lighting-fixtures. No. 56,076; Aug. 10; v. 277; p. 348.
Miller, Jacob, West Falls, N. Y. Clothesline-clamp. No. 55,953; Aug. 3; v. 277; p. 140.
Miller, Samuel, New York, N. Y. Arm for lighting-fixtures. Nos. 56,077–8; Aug. 10; v. 277; p. 348.
Millikan, W. H. (See Allard, Maurice L. H. A., assignor.)
Mitchell, Samuel, New York, N. Y. Ring. No. 56,184; Aug. 24; v. 277; p. 746.
Mitchell Vance Co. (See Mathieu, Frederick W., assignor.)
Monteleone, Ernest, Jersey City, N. J. Toy aeroplane. No. 56,185; Aug. 24; v. 277; p. 747.
Montgomery, Donn H., Denver, Colo. Automobile. Nos. 56,019–20; Aug. 10; v. 277; p. 338.
Morris, Edgar L., St. Louis, Mo., assignor to United States Sanitary Specialties Corporation, Chicago, Ill. Liquid-soap dispenser. No. 56,079; Aug. 10; v. 277; p. 349.
Mount Vernon Company, Silversmiths, The. (See Greene, Frederick E., assignor.)
Moyer, George A., Syracuse, assignor to The Cleveland Candle Company, Cleveland, N. Y. Candle. No. 56,021; Aug. 10; v. 277; p. 339.
Murray, James G. (See Sawders, F. P., and Murray.)
Nelson, Einar J., Tacoma, Wash. Barber's combination work-table. No. 56,186; Aug. 24; v. 277; p. 747.
Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Toggle switch-plate. No. 56,022; Aug. 10; v. 277; p. 339.
Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Double toggle switch-plate. No. 56,023; Aug. 10; v. 277; p. 389.
Nielsen, Marius, Granville, Ohio. Pin. No. 56,024; Aug. 10; v. 277; p. 339.
Nowacki, Stanley T., Marlin, Tex. Mirror. No. 56,025; Aug. 10; v. 277; p. 339.
Ohm, Albert J. D., Astoria, Oreg., assignor to Lion Electric Appliance Co., Brooklyn, N. Y. Electric lamp. No. 55,954; Aug. 3; v. 277; p. 140.
Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 56,187–9; Aug. 24; v. 277; p. 747.
P-A-T-S Manufacturing Company. (See Will, Victor R., assignor.)
Pearson, Sigrid L. M., Chicago, Ill. Phonograph-casing. No. 56,026; Aug. 10; v. 277; p. 339.
Pennington, Andrew J., assignor to U. S. Compression Inner Tube Company, Tulsa, Okla. Tire. Nos. 56,103–5; Aug. 17; v. 277; p. 549.
Peruggi, Ernesto, New York, N. Y. Doll. Nos. 56,190–1; Aug. 24; v. 277; p. 747.
Peterson, Maurice, New York, N. Y. Game-board. No. 56,080; Aug. 10; v. 277; p. 349.
Pi Kappa Alpha Fraternity, The. (See Henry, Orloff, assignor.)
Pittsburgh Lamp, Brass & Glass Company. (See Griffith, Benjamin M., assignor.)
Plaisted, William M., Larchmont Manor, assignor to Haselton Brothers, New York, N. Y. Piano-case. No. 56,192; Aug. 24; v. 277; p. 748.
Polasky, Wladyslaw, Detroit, Mich. Jewelry-box. No. 56,027; Aug. 10; v. 277; p. 340.
Price, Grace, Mount Airy, Va. Combined butter ladle and print. No. 56,028; Aug. 10; v. 277; p. 340.
Quigg, James L., assignor to C. F. Sauer Company, Richmond, Va. Bottle or similar article. No. 56,029; Aug. 10; v. 277; p. 340.
Rapattoni, Ernest, Los Angeles, Calif. Automobile traffic-signal. No. 56,193; Aug. 24; v. 277; p. 748.
Rees, Frank W., assignor to Sees-All Manufacturing Company, Seattle, Wash. Rear-sight mirror for motor-vehicles. No. 56,030; Aug. 10; v. 277; p. 340.
Reliance Metal Spinning & Stamping Co. (See Cohn, Harry, assignor.)
Reybet, Georges, Jersey City, N. J. Textile fabric for decorative purposes. Nos. 56,194–5; Aug. 24; v. 277; p. 748.
Reynolds, Bernard R., Kansas City, Kans. Pin or similar device for personal wear. No. 55,957; Aug. 3; v. 277; p. 141.
Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
Robinson, Grosvenor P., Summit, N. J. Lighting-fixture. No. 56,081; Aug. 10; v. 277; p. 349.
Rogers, Nathaniel B., Danbury, Conn. Lighting-fixture. No. 56,031; Aug. 10; v. 277; p. 340.
Rohr, Marshall J., Washington, D. C. Toy. No. 55,958; Aug. 3; v. 277; p. 141.
Rosenbach, David, assignor to Illinois Automobile Club, Chicago, Ill. Emblematic article of manufacture. No. 56,239; Aug. 31; v. 277; p. 940.
Roscoscuk, Frank, Albany, N. Y. Sadiron-handle. No. 56,032; Aug. 10; v. 277; p. 341.
Russell, Calvin, Penn Yan, N. Y., assignor to C. H. Russell. Roofing-shingle. No. 56,106; Aug. 17; v. 277; p. 550.
Russell, Carrie H. (See Russell, Calvin, assignor.)
Russell, Mary L., New York, N. Y. Figurette. No. 55,959; Aug. 3; v. 277; p. 141.
Rustant, Ferdinand, San Francisco, Calif. Bottle-stopper. Nos. 56,107–8; Aug. 17; v. 277; p. 550.
Sauer, C. F., Company. (See Quigg, James L., assignor.)
Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Combination spring-hanger and radius-rod bracket. No. 56,033; Aug. 10; v. 277; p. 341.
Schreiber, Paul D. (See Jones, P. J., and Schreiber.)
Schuler, William A., New York, N. Y. Clutch. No. 56,196; Aug. 24; v. 277; p. 748.
Schultz, Raymond A., Rochester, assignor of one-half to A. S. Donaldson, Watertown, N. Y. Pole-holder. No. 56,197; Aug. 24; v. 277; p. 749.
Schwarber, Henry, Weehawken, assignor to The Inflexible Co., West New York, N. J. Embroidered lace-collar. Nos. 56,198–9; Aug. 24; v. 277; p. 749.
Schwarber, Henry, Weehawken, assignor to The Inflexible Co., West New York, N. J. Embroidered lace. No. 56,240; Aug. 31; v. 277; p. 940.
Scott, Ephriam J., East Providence, R. I. Game-board. No. 56,200; Aug. 24; v. 277; p. 749.
Sees-All Manufacturing Company. (See Rees, Frank W., assignor.)
Service Caster & Truck Company, The. (See Chesnutt, John L., assignor.)
Siegel, Leah. (See Gillman, E., and Siegel.)
Silent Drama Syndicate, a trusteeship. (See Brown, Lloyd, assignor.)
Silver, Hyman, Brooklyn, N. Y. Buffet or similar article. No. 56,201; Aug. 24; v. 277; p. 749.
Simon, Vincent N., Chicago, Ill. Illusion device. No. 55,960; Aug. 3; v. 277; p. 141.
Smith, Harley. (See Berry, Louis J.)
Smith, James H., assignor to Smith-Junior Co., Inc., Rochester, N. Y. Duplex container. No. 56,082; Aug. 10; v. 277; p. 349.
Smith-Junior Co. (See Smith, James H., assignor.)
Smyth, Milton J., Philadelphia, Pa. Service picture-mat. No. 56,202; Aug. 24; v. 277; p. 749.
Snyder, Ida M., Louisville, Ky. Shoe-heel protector. No. 56,034; Aug. 10; v. 277; p. 341.
Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
Soref, Harry, Milwaukee, Wis. Display-stand. No. 56,241; Aug. 31; v. 277; p. 941.
Speck, James G., Philadelphia, Pa., assignor to Bigelow Hartford Carpet Company. Rug. No. 55,961; Aug. 3; v. 277; p. 142.
Squier, Bernice and B., Battle Creek, Mich. Doll. No. 55,962; Aug. 3; v. 277; p. 142.
Squier, Bernice and B., Battle Creek, Mich. Toy animal. No. 55,963; Aug. 3; v. 277; p. 142.
Squier, Blanche. (See Squier, Bernice and B.)
Stafford, Lewis F., Chicago, Ill. Automobile-bumper. No. 56,203; Aug. 24; v. 277; p. 749.
Steger & Sons Piano Manufacturing Company. (See Steger, Ferdinand L., assignor.)
Steger, Ferdinand L., assignor to Steger & Sons Piano Manufacturing Company, Steger, Ill. Cover for a phonograph-case. No. 56,035; Aug. 10; v. 277; p. 341.
Stimpson, George E., Worcester, Mass. Auxiliary desk-top. No. 56,242; Aug. 31; v. 277; p. 941.
Strain, John H., Boston, Mass. Foot-propelled child's car. No. 56,204; Aug. 24; v. 277; p. 750.
Strong, Margaret L., Washington, D. C. Ornament for a picture-frame or the like. Nos. 56,205–6; Aug. 24; v. 277; p. 750.
Susquehanna Silk Mills. (See Katz, Clara, assignor.)
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Susquehanna Silk Mills. (See Orcutt, Leon F., assignor.)
Swan, Herbert H., Grand Rapids, Mich. Tire-tread. No. 56,243; Aug. 31; v. 277; p. 941.
Sweeny, Jennie H., Union, S. C. Medal or badge. No. 56,083; Aug. 10; v. 277; p. 349.
Taber, George H., Binghamton, N. Y. Combined muffler and cut-out. No. 55,964; Aug. 3; v. 277; p. 142.
Takeuchi, Masayoshi, Seattle, Wash. Infant's bath-cot. No. 56,036; Aug. 10; v. 277; p. 341.
Tennent, Walter J., Norfolk, Va. Shield, badge, button, pin, or similar article. No. 55,965; Aug. 3; v. 277; p. 142.
Tew, James D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic-tire tread. No. 55,966; Aug. 3; v. 277; p. 142.
Thomsen, Max, assignor to A. Copeland, Chicago, Ill. Oil-cloth-display stand. No. 56,084; Aug. 10; v. 277; p. 350.
Thomson, Ralph K., Sioux Falls, S. D. Automobile side curtain. No. 56,109; Aug. 17; v. 277; p. 550.
Tilton, Perley G., Boston, Mass. Cap-cover. No. 56,037; Aug. 10; v. 277; p. 341.
Timpte, Clemens A. and T. C., Denver, Colo. Automobile-body. No. 56,244; Aug. 31; v. 277; p. 941.
Timpte, Tony C. (See Timpte, Clemens A. and T. C.)
Traute, Henry C., Fairhaven, N. J., assignor to The Diamond Match Company, Chicago, Ill. Vending-machine case. No. 56,038; Aug. 10; v. 277; p. 342.

Traute, Henry C., Fairhaven, N. J., assignor to The Diamond Match Company, Chicago, Ill. Combined match-holder and ash-receptacle. No. 56,039; Aug. 10; v. 277; p. 342.
U. S. Compression Inner Tube Company. (See Pennington, Andrew J., assignor.)
United States Sanitary Specialties Corporation. (See Morris, Edgar L., assignor.)
Utter, Bror A., Chicago, Ill. Casket-bar bracket or lug. Nos. 56,040–1; Aug. 10; v. 277; p. 342.
Vanderkamp, John, assignor to The Goldsmith Publishing Company, Cleveland, Ohio. Finger-rest and pointer for a game. No. 56,085; Aug. 10; v. 277; p. 350.
Virgile, Gabriel J., New York, N. Y. Textile fabric for decorative purposes. Nos. 56,208–9; Aug. 24; v. 277; p. 750.
Vivaudou, Victor, New York, N. Y. Container. Nos. 56,210–11; Aug. 24; v. 277; p. 751.
Wagner, Aurea D. (See De Richelieu, W. E., and Wagner.)
Ward, Artemas, Jr., Detroit, Mich. Instrument-board for automobiles. No. 56,212; Aug. 24; v. 277; p. 751.
Warner Brothers Company, The. (See Warner, De Ver H., assignor.)
Warner, De Ver H., assignor to The Warner Brothers Company, Bridgeport, Conn. Hose-supporting loop. No. 56,042; Aug. 10; v. 277; p. 343.
Waugh, Coulton, New York, N. Y. Textile fabric for decorative purposes. No. 56,086; Aug. 10; v. 277; p. 350.
Waugh, Coulton, New York, N. Y. Textile fabric for decorative purposes. No. 56,213; Aug. 24; v. 277; p. 751.
Weeks, Frank A., Plainfield, N. J. Inkstand. Nos. 55,967–8; Aug. 3; v. 277; p. 143.
Weeks, Frank A., Plainfield, N. J. Cover for inkstands. No. 55,969; Aug. 3; v. 277; p. 143.
Wegiel, Wojciech, Ludlow, Mass. Basket. No. 56,245; Aug. 31; v. 277; p. 941.
Weinberg, Isaac H., and C. F. Bisbing, New York, N. Y. Parasol or umbrella. No. 56,043; Aug. 10; v. 277; p. 343.
Weiner, Morris, and W. Loeb, New York, N. Y. Fingering. Nos. 56,087–92; Aug. 10; v. 277; pp. 350–1.
Weller, Hubert R., assignor to Garrett & Company, Incorporated, Brooklyn, N. Y. Bottle. No. 56,110; Aug. 17; v. 277; p. 550.
Wheeler, Wellington B., El Segundo, Calif. Bill-board arch. No. 56,044; Aug. 10; v. 277; p. 343.
White, D'Orsay M., Indianapolis, Ind., assignor to La Fayette Motors Company. Instrument-dial. No. 56,045; Aug. 10; v. 277; p. 343.
White, Fred E., assignor to Central Oil & Gas Stove Company, Gardner, Mass. Oil-stove. No. 56,111; Aug. 17; v. 277; p. 551.
Wildman Rubber Company, The. (See Wildman, William W., assignor.)
Wildman, William W., assignor to The Wildman Rubber Company, Detroit, Mich. Tire. No. 56,046; Aug. 10; v. 277; p. 343.
Will & Baumer Company, The. (See Flannery, Martin A., assignor.)
Will, Victor R., assignor to P-A-T-S Manufacturing Company, Lodi, Calif. Automobile direction-signal. No. 56,047; Aug. 10; v. 277; p. 343.
Winter, George H. (See Kearney, J. J., and Winter.)
Wojciechowski, Frank, Staunton, Ill.; Pocket cigar-holder. No. 56,112; Aug. 17; v. 277; p. 551.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Phonograph-cabinet. No. 56,214; Aug. 24; v. 277; p. 751.
Worth, George E., Rochester, N. Y. Toy vehicle. No. 55,970; Aug. 3; v. 277; p. 143.
Wuyckhuyse, John, Rochester, N. Y. Child's vehicle. No. 56,207; Aug. 24; v. 277; p. 750.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. B. Manufacturing Company, Providence, R. I. Jewelry, not including watches. No. 133,889; Aug. 10; v. 277; p. 385
Abbott, Edwin A., Wilkes-Barre, Pa. Chemical preparation for the removal of metal from oxid. No. 135,553; Aug. 3; v. 277; p. 169.
Abrasive Company, Philadelphia, Pa. Grinding and polishing wheels. No. 133,888; Aug. 10; v. 277; p. 385.
Achilles Rubber and Tire Company, Inc., Binghamton, N. Y. Rubber tire casings and tubes, belting, &c. No. 133,554; Aug. 3; v. 277; p. 169.
Acme Chemical Mfg. Co., New Orleans, La. Medicinal treatment for catarrhal conditions. No. 134,331; Aug. 31; v. 277; p. 971.
Acme Packing Co., Chicago, Ill. Canned pork and beans, apple-butter, jams and jelly. No. 134,332; Aug. 31; v. 277; p. 971.
Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. Nos. 133,555–6; Aug. 3; v. 277; p. 169.
Adelmann, Clarence N., Newark, N. J. Garments for women and children. No. 133,557; Aug. 3; v. 277; p. 169.
Ades Products Corporation, Philadelphia, Pa. Food-flavoring extracts. No. 134,333; Aug. 31; v. 277; p. 971.
Aero Products Company, The, Cleveland, Ohio. Carburetors. No. 134,148; Aug. 17; v. 277; p. 581.
Aktiebolaget Ingeniorsfirman, G. A. Lindstedt & Co., Stockholm, Sweden. Cutlery, machinery, and tools. No. 134,149; Aug. 17; v. 277; p. 581.
Alaska Salmon Co., San Francisco, Calif. Canned, salted, and pickled fish. No. 134,208; Aug. 24; v. 277; p. 777.
Albany Grocery Co., Albany, Ga. Self-rising wheat-flour. No. 133,890; Aug. 10; v. 277; p. 385.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Dispensing-cabinets for paper towels or toilet-papers. No. 133,558; Aug. 3; v. 277; p. 169.
Albaugh-Dover Company, Chicago, Ill. Laundry-washing machines. No. 133,560; Aug. 3; v. 277; p. 169.
Alexanian, John G., Fort Wayne, Ind. Rug-cleaning compound. No. 134,334; Aug. 31; v. 277; p. 971.
Alford, W. M., & Sons, New York, N. Y. Broad silks in the piece. No. 133,559; Aug. 3; v. 277; p. 169.
All-Qual-Sweets Co., Chicago, Ill. Chocolates. No. 134,335; Aug. 31; v. 277; p. 971.
Alpine Evaporated Cream Co., San Francisco, Calif. Canned evaporated milk. No. 134,336; Aug. 31; v. 277; p. 971.
Amendt Milling Company, Monroe and Trenton, Mich., and Delta, Ohio. Wheat-flour. No. 133,891; Aug. 10; v. 277; p. 385.
American Calculating Machine Co., The, New York, N. Y. Calculating-machines. No. 134,150; Aug. 17; v. 277; p. 581.
American Device Manufacturing Company, St. Louis, Mo. Vacuum suction-pumps. No. 134,151; Aug. 17; v. 277; p. 581.
American "E" Products Company, Minneapolis, Minn. Soups. Nos. 134,209–10; Aug. 24; v. 277; p. 777.
American Enamel Company, Providence, R. I. Enameled handles, knobs, and pulls. No. 133,561; Aug. 3; v. 277; p. 169.
American Extract & Supply Co., New York, N. Y. Non-alcoholic non-cereal maltless beverages. No. 133,562; Aug. 3; v. 277; p. 169.
American Hard Rubber Company, Hempstead and New York, N. Y. Electrical apparatus, machines, and supplies. No. 133,892; Aug. 10; v. 277; p. 385.
American Laboratories, Incorporated, Richmond, Va. Non-alcoholic beverages. No. 133,563; Aug. 3; v. 277; p. 169.
American-National Shoe & Leather Corporation, New York, N. Y. Rubber boots and shoes and boots and shoes made wholly or in part of leather. No. 133,564; Aug. 3; v. 277; p. 169.
American Nut Butter Company, Providence, R. I. Oleomargarin. No. 133,893; Aug. 10; v. 277; p. 385.
American Seeding-Machine Company, The, Springfield, Ohio. Grain-drill, combined grain-drills and fertilizer-sowers, and broadcast fertiliser-sowers. No. 134,152; Aug. 17; v. 277; p. 581.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 133,565; Aug. 3; v. 277; p. 169.
American Tractor Corporation, Peoria, Ill. Tractors. No. 133,566; Aug. 3; v. 277; p. 169.
American Trading Company, New York, N. Y. Cotton piece goods. No. 133,567; Aug. 3; v. 277; p. 169.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. Nos. 133,894–6; Aug. 10; v. 277; p. 385.
Andersen, A. O., & Co., Portland, Oreg. Unsweetened evaporated milk. No. 134,211; Aug. 24; v. 277; p. 777.
Anderson Forge & Machine Company, Detroit, Mich. Steel drop-forgings. No. 133,568; Aug. 3; v. 277; p. 169.
Andrews, Frederick E., Pelham Manor, N. Y. Preparation for polishing metal and glass. No. 133,897; Aug. 10; v. 277; p. 385.
Arctic Cream Co., Fremont, Nebr. Ice-cream, fancy chocolates, and creamery-butter. No. 134,213; Aug. 24; v. 277; p. 777.
Armour Fertilizer Works, Chicago, Ill. Fertilizers. No. 134,212; Aug. 24; v. 277; p. 777.
Armstrong, Julius, Chicago, Ill. Wooden tanks. No. 133,569; Aug. 3; v. 277; p. 169.
Arnheim, Benjamin H., Pittsburgh, Pa. Metal-polish. No. 133,898; Aug. 10; v. 277; p. 385.
Ashland Milling Co., The, Ashland, Ky. Self-rising flour. No. 133,899; Aug. 10; v. 277; p. 385.
Associated Dairymen of Calif., Inc., San Francisco, Calif. Dairy products. No. 133,900; Aug. 10; v. 277; p. 385.
Atchison Mills Corporation, The, Atchison, Kans. Wheat-flour. No. 134,214; Aug. 24; v. 277; p. 777.
Austin-Nichols & Company, Inc., New York, N. Y. Coffee. No. 133,901; Aug. 10; v. 277; p. 385.

Auto Metal Parts Company, Des Moines, Iowa. Shutters for radiators of motor-vehicles. No. 134,337; Aug. 31; v. 277; p. 971.
Automatic Appliance Company, The, St. Louis, Mo. Machines for timing and controlling the period of operation of laundry-machines and signaling the end of operation thereof. Nos. 134,215–16; Aug. 24; v. 277; p. 777.
Automatic Carbonic Machine Company, Peoria, Ill. Refrigerating-machines. No. 133,570; Aug. 3; v. 277; p. 169.
Automobile Owners Tire Corporation, Sioux City, Iowa. Rubber tires, inner tubes. No. 133,571; Aug. 3; v. 277; p. 169.
B & R Laboratories & Mfg. Co., Inc., The, Jersey City, N. J. Prophylactic for venereal diseases. No. 133,572; Aug. 3; v. 277; p. 169.
Baer, Joseph E., New York, N. Y. Hosiery and children's rompers. No. 133,902; Aug. 10; v. 277; p. 385.
Bainbridge, G. K., Ripon, Calif. Candy-making machinery and parts thereof. No. 133,573; Aug. 3; v. 277; p. 169.
Bair-Collins Coal Co., Billings, Mont. Coal. No. 134,338; Aug. 31; v. 277; p. 971.
Baird, Cassius M. C., Chicago, Ill. Fire-hose. No. 133,574; Aug. 3; v. 277; p. 169.
Baldwin Company, The, Cincinnati, Ohio. Phonographs. No. 133,903; Aug. 10; v. 277; p. 385.
Barlow, John T., Philadelphia, Pa. Photo-engravers' inks. No. 133,904; Aug. 10; v. 277; p. 385.
Barna, Peter, New York, N. Y. Canned mackerel. No. 134,217; Aug. 24; v. 277; p. 777.
Barnes-Ross Company, Indianapolis, Ind. Monthly publication. No. 134,339; Aug. 31; v. 277; p. 971.
Basket Stores Company, Omaha, Nebr. Foods and ingredients of foods. Nos. 133,905–6; Aug. 10; v. 277; p. 385.
Bates, A. J., & Company, Inc., New York, N. Y. Shoes and slippers. No. 133,576; Aug. 3; v. 277; p. 169.
Bau, José, Tortosa, Spain. Olive-oil. Nos. 134,340–2; Aug. 31; v. 277; p. 971.
Bauman, Hyman, & Co., New York, N. Y. Cotton piece goods. No. 134,387; Aug. 31; v. 277; p. 972.
Baush Machine Tool Company, Springfield, Mass. Non-ferrous metal in form of sheets, castings, and forgings. No. 133,577; Aug. 3; v. 277; p. 169.
Bay City Milling Company, Bay City, Mich. Wheat-flour and buckwheat-flour. No. 134,218; Aug. 24; v. 277; p. 777.
Beaver Company, The, Buffalo, N. Y. Linoleum and composition floor-coverings. No. 133,578; Aug. 3; v. 277; p. 169.
Becker, Edw. M., Company, The, Cleveland, Ohio. Marshmallow candy. No. 133,907; Aug. 10; v. 277; p. 385.
Becker, Geo. H., Baltimore, Md. Potato chips, doughnuts, swieback. No. 134,219; Aug. 24; v. 277; p. 777.
Becker, John W., Chicago, Ill. Abrasive devices for use on commutators of electric machines. No. 133,579; Aug. 3; v. 277; p. 169.
Beech-Nut Packing Company, Canajoharie, N. Y. Non-alcoholic beverages. No. 133,580; Aug. 3; v. 277; p. 170.
Bell, J. S. Confectionery Company, Cambridge, Mass. Candies. No. 134,343; Aug. 31; v. 277; p. 971.
Berger, Samuel, Newark, N. J. Sink-scoops. No. 134,153; Aug. 17; v. 277; p. 581.
Berkshire Shirt Co., New York, N. Y. Pajamas. No. 133,581; Aug. 3; v. 277; p. 170.
Bickmore Co., The, Oldtown, Me. Accounts-books. No. 133,909; Aug. 10; v. 277; p. 385.
Bisceglia Brothers Co., San Jose, Calif. Canned fruits. No. 133,910; Aug. 10; v. 277; p. 385.
Bixby, S. M., & Co., Inc., Brooklyn, N. Y. Composition in solid, liquid, or paste form for the treatment of white shoes. No. 134,302; Aug. 24; v. 277; p. 781.
Bixby, S. M., & Co., Inc., Brooklyn, N. Y. Shoe-polishes. No. 134,303; Aug. 24; v. 277; p. 781.
Blanke, C. F., Tea & Coffee Company, St. Louis, Mo. Salad-dressing, peanut-butter, and salted peanuts. No. 133,582; Aug. 3; v. 277; p. 170.
Bloch Chemical Company, Inc., The, New York, N. Y. Hair-nets. No. 133,583; Aug. 3; v. 277; p. 170.
Block, Louis A., New Orleans, La. Cleaning liquid adapted for general use. No. 133,911; Aug. 10; v. 277; p. 385.
Blue Bird Manufacturing Company, St. Louis, Mo. Ironing-machines, wringing-machines, and sad-irons. No. 133,585; Aug. 3; v. 277; p. 170.
Blue Bird Manufacturing Company, St. Louis, Mo. Refrigerating-machines. No. 133,584; Aug. 3; v. 277; p. 170.
Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics of all kinds in the piece. No. 134,304; Aug. 24; v. 277; p. 781.
Boker Cutlery & Hardware Company, Inc., New York, N. Y. Razors. No. 133,575; Aug. 3; v. 277; p. 169.
Bond, Charles, Company, Philadelphia, Pa. Antisqueak frame-linings. No. 133,586; Aug. 3; v. 277; p. 170.
Boone Tire & Rubber Company, Chippewa Falls, Wis. Automobile-casings of rubber and canvas. No. 133,587; Aug. 3; v. 277; p. 170.
Boott Mills, Lowell, Mass. Cotton piece goods No. 133,912; Aug. 10; v. 277; p. 385.
Bowden Wire Limited, Willesden Junction, London, England. Hardware and plumbing and steam-fitting supplies. No. 133,588; Aug. 3; v. 277; p. 170.
Bowles, Lynn L., Franconia, N. H. Maple-sugar. No. 134,220; Aug. 24; v. 277; p. 777.
Bowman, Allan K., Wilkinsburg, Pa. Cleaning compound—namely, wall-paper cleaner. No. 133,913; Aug. 10; v. 277; p. 385.
Boyzen, Iwer, New York, N. Y. Photographic retouching-screens. No. 133,589; Aug. 3; v. 277; p. 170.
Brandon, Arthur H., & Co., Toledo, Ohio. Fishing-tools for wells. No. 134,154; Aug. 17; v. 277; p. 581.
Braun, Emil, New York, N. Y. Doughnuts and cakes. No. 133,914; Aug. 10; v. 277; p. 385.
Bray Pictures Corporation, The, New York, N. Y. Moving-picture films. No. 134,221; Aug. 24; v. 277; p. 777.
Breen, John P., Great Falls, Mont. Lubricating oils and greases. No. 133,590; Aug. 3; v. 277; p. 170.
Bright Star Battery Company, New York, N. Y. Electric batteries and flash-lights, and flash-light cases. No. 133,591; Aug. 3; v. 277; p. 170.
Brinker, Frederick F., Peoria, Ill. Canned adhesive rubber. No. 134,222; Aug. 24; v. 277; p. 777.
Brokaw-Eden Manufacturing Company, Alton, Ill. Laundry appliances and machines. No. 133,592; Aug. 3; v. 277; p. 170.
Bromley-Merseles Mfg. Co., New York, N. Y. Dish-washing machines and metal-parts-washing machines. No. 134,207; Aug. 17; v. 277; p. 582.
Brown Company, Portland, Me. Paper products, and particularly bond or other writing or print paper. No. 133,915; Aug. 10; v. 277; p. 385.
Brown and Singerman Inc., New York, N. Y. Petticoats and bloomers. No. 133,593; Aug. 3; v. 277; p. 170.
Brown & Zortman Machinery Co., Pittsburgh, Pa. Machinery and tools and parts thereof. No. 133,594; Aug. 3; v. 277; p. 170.
Browne, Geo. C., Elmira, N. Y. Salted peanuts, peanut-butter, coffee, tea, cocoa. No. 134,223; Aug. 24; v. 277; p. 777.
Browne, Waldo R., Wyoming, N. Y. Article of confectionery consisting of honey nougat. No. 133,916; Aug. 10; v. 277; p. 385.
Brownson, R., & Company, Hastings, Minn. Nose-guards for animals, particularly horses. No. 133,595; Aug. 3; v. 277; p. 170.
Bublitz & Hammond, Nashua, Iowa. Metal-polish. No. 133,596; Aug. 3; v. 277; p. 170.
Buchanan, Walter D., Greenville, Ohio. Candy. No. 133,917; Aug. 10; v. 277; p. 386.
Buda Company, The, Harvey, Ill. Gasolene-engines, lifting-jacks, track and bonding drills, &c. No. 133,597; Aug. 3; v. 277; p. 170.
Buehler, Herbert J., Newark, N. J. Prepared pudding. No. 133,918; Aug. 10; v. 277; p. 386.
Buettner, Charles H., Cincinnati, Ohio. Automobile-fan and fabric belts, hose, packing. No. 133,598; Aug. 3; v. 277; p. 170.
Bulova-Henshel Co., New York, N. Y. Artificial pearls. No. 133,919; Aug. 10; v. 277; p. 386.
Bump Confectionery Co., Anna, Ill. Non-alcoholic beverages and syrups for making same. No. 133,920; Aug. 10; v. 277; p. 386.
Burch, Mrs. Daisy, Indianapolis, Ind. Hair-grower. No. 133,599; Aug. 3; v. 277; p. 170.
Burch Plow Works Company, The, Crestline, Ohio. Agricultural implements. No. 133,600; Aug. 3; v. 277; p. 170.
Burch, Thaddeus A., Baltimore, Md. Lubricating oils and greases. No. 133,601; Aug. 3; v. 277; p. 170.
Burgan, Robert J., New York, N. Y. Paper patterns for making men's clothes. No. 134,224; Aug. 24; v. 277; p. 777.
Burger, Iwan, New York, N. Y. Canned fish, fruits, and vegetables, cheese, &c. No. 133,602; Aug. 3; v. 277; p. 170.
Burger, Iwan, Inc., New York, N. Y. Herring, mackerel, salmon, tuna, &c. Nos. 133,921–2; Aug. 10; v. 277; p. 386.
Burns, Jabez, & Sons, New York, N. Y. Machinery and parts thereof. No. 134,160; Aug. 17; v. 277; p. 581.
Cairo Food Products Company, Cairo, Ill. Ice-cream, butter, candy, &c. No. 133,924; Aug. 10; v. 277; p. 386.
Calhoun, George E., Amsterdam, N. Y. Dressing for brake-linings and the like. No. 133,923; Aug. 10; v. 277; p. 386.
California Chocolate Shop, Inc., Los Angeles, Calif. Confectionery—namely, chocolate bonbons. Nos. 133,925–6; Aug. 10; v. 277; p. 386.
California Soap Company, Inc., Los Angeles, Calif. Soaps. No. 133,603; Aug. 3; v. 277; p. 170.
Candy Products Corporation, Chicago, Ill. Confectionery. No. 134,225; Aug. 24; v. 277; p. 777.
Cant-Slip Co., Rochester, N. Y. Preparation used for application to a typewriter-platen to prevent slipping. No. 133,927; Aug. 10; v. 277; p. 386.
Caradine, James T., St. Louis, Mo. Waterproof and non-waterproof coats, slickers, &c. No. 134,344; Aug. 31; v. 277; p. 971.
Carey Company, The, Cleveland, Ohio. Covers for heating-radiators. No. 134,345; Aug. 31; v. 277; p. 971.
Carney, Alexander R., Fresno, Calif. Fresh plums. No. 133,928; Aug. 10; v. 277; p. 386.
Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Company, Chicago, Ill. Handkerchiefs. No. 133,604; Aug. 3; v. 277; p. 170.
Carton Belting Company, Boston, Mass. Stitched woven belting. Nos. 133,605–6; Aug. 3; v. 277; p. 170.

Carvalho, Leslie R. N., assignor, by mesne assignments, to Closure Service Corp., Brooklyn, N. Y. Metal caps for bottles, jars, and tumblers. No. 134,346; Aug. 31; v. 277; p. 971.

Central States Orchards Co., Kansas City, Mo. Apples in their natural state. No. 133,929; Aug. 10; v. 277; p. 386.

Chapman & Smith Company, Chicago, Ill. Foods. No. 133,930; Aug. 10; v. 277; p. 386.

Charms Company, Newark, N. J. Non-alcoholic, non-cereal, maltless beverages. No. 133,607; Aug. 3; v. 277; p. 170.

Chase & Sanborn, Boston, Mass. Tea. No. 134,226; Aug. 24; v. 277; p. 777.

Chase & Sanborn, Boston, Mass. Tea. No. 134,347; Aug. 31; v. 277; p. 971.

Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 133,932; Aug. 10; v. 277; p. 386.

Cheney Brothers, South Manchester, Conn. Woven, knitted, &c., fabrics in the piece. Nos. 134,305–8; Aug. 24; v. 277; p. 781.

Cheney, S., & Son, Manlius, N. Y. Stock-feed-grinding machines. No. 134,161; Aug. 17; v. 277; p. 581.

Chéri Incorporated, Philadelphia, Pa. Chocolates and candies. No. 134,348; Aug. 31; v. 277; p. 971.

Chesapeake Iron Works, Baltimore, Md. Cranes. No. 134,155; Aug. 17; v. 277; p. 581.

Chicago Flexible Shaft Company, Chicago, Ill. Electric flat-irons. No. 133,611; Aug. 3; v. 277; p. 171.

China, Japan & South America Trading Co., Ltd., San Francisco, Calif. Canned fruits and vegetables. No. 133,933; Aug. 10; v. 277; p. 386.

Churchill, Ray S., Danville, Ill. Soldering compounds in powder form. No. 134,162; Aug. 17; v. 277; p. 581.

City Mills Company, Columbus, Ga. Wheat-flour and self-rising wheat-flour. Nos. 134,227–8; Aug. 24; v. 277; p. 777.

Cla-Loid Mfg. Co., Clermont, Iowa. Mechanics' soap in bars. No. 133,613; Aug. 3; v. 277; p. 171.

Clarke Bros.' Stores, Scranton, Pa. Peanuts in the shell and peanut-butter. No. 133,934; Aug. 10; v. 277; p. 386.

Clarotype Company, The, Charleston, S. C., and New York, N. Y. Chemical cleansing compound for typewriters and other metal type, &c. No. 133,935; Aug. 10; v. 277; p. 386.

Cleroline Chemical Co. Inc., New York, N. Y. Chemical compound for keeping wind-shield or glass clear. No. 133,618; Aug. 3; v. 277; p. 171.

Cleveland Brass Manufacturing Company, The, Cleveland, Ohio. Faucets, valves, and cocks. No. 133,614; Aug. 3; v. 277; p. 171.

Clinton Wire Cloth Company, Boston, Mass., assignor to Clinton-Wright Wire Company. Wire-cloth and fencing of iron wire. No. 133,616; Aug. 3; v. 277; p. 171.

Clothing, Chipman Knitting Mills. No. 133,612; Aug. 3; v. 277; p. 171.

Clover Leaf Manufacturing Company, Carbondale, Pa. Bobbins, reel-arms, fiber combs, lacing-rings, &c. No. 133,615; Aug. 3; v. 277; p. 171.

Cockshaw, Herbert. (See Arden, Mary, Corset Company, assignor.)

Cockshaw, Herbert, assignor to Mary Arden Corset Company, Inc., New York, N. Y. Corsets. No. 133,617; Aug. 3; v. 277; p. 171.

Colley, John W., Elkhart, Ind. Leather and fabric dressing. No. 133,619; Aug. 3; v. 277; p. 171.

Collis Products Company, Clinton, Iowa. Powdered buttermilk. No. 134,349; Aug. 31; v. 277; p. 971.

Colorado Milling & Elevator Co., The, Denver, Colo. Wheat-flour. No. 134,229; Aug. 24; v. 277; p. 777.

Columbian Enameling & Stamping Co., Terre Haute, Ind. Enamel ware. No. 134,809; Aug. 24; v. 277; p. 781.

Commercial Milling Co., The, Detroit, Mich. Pancake-flour. No. 134,350; Aug. 31; v. 277; p. 971.

Comstock, C. & F. W., Port Jefferson Station, N. Y. Cake and cookies. No. 133,936; Aug. 10; v. 277; p. 386.

Condrell, Paul K., Kenmore, N. Y. Pure milk-chocolate bars containing roasted almonds and cocoanuts. No. 133,937; Aug. 10; v. 277; p. 386.

Continental Castings Corp., New York, N. Y. Aluminum alloys. No. 134,163; Aug. 17; v. 277; p. 581.

Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Men's knitted union-suits. No. 133,621; Aug. 3; v. 277; p. 171.

Corkran, Hill & Co. Inc., Baltimore, Md. Hams. No. 134,310; Aug. 24; v. 277; p. 782.

Corn Belt Packing Company, Dubuque, Iowa. Kettle-rendered lard. No. 133,938; Aug. 10; v. 277; p. 386.

Corning Glass Works, Corning, N. Y. Glass. No. 134,311; Aug. 24; v. 277; p. 782.

Cosby, W. M., Flour & Grain Co., Birmingham, Ala. Corn-meal. No. 134,230; May 2; v. 277; p. 777.

Cosmopolitan Film Company, New Orleans, La. Scenic and educational moving-picture films. No. 133,622; Aug. 3; v. 277; p. 171.

Cox, Warren R., Cleveland, Ohio. Electrical apparatus, machines, and supplies. Nos. 133,939–40; Aug. 10; v. 277; p. 386.

Cramer, G., Dry Plate Company, St. Louis, Mo. Photographic dry-plates and films. No. 134,312; Aug. 24; v. 277; p. 782.

Crane, Clarence A., Cleveland, Ohio. Candy. Nos. 133,941–2; Aug. 10; v. 277; p. 386.

Cream Products Co., Peoria, Ill. Candies. Nos. 134,351–2; Aug. 31; v. 277; p. 971.

Crescent Pump Company, Detroit, Mich. Vacuum and pressure air-pumps, liquid-pumps, and blowers. No. 133,623; Aug. 3; v. 277; p. 171.

Crown Embroidery Works, New York, N. Y. Ladies' and misses' dresses in one and two piece garments. No. 133,624; Aug. 3; v. 277; p. 171.

Crown Ribbon and Carbon Mfg. Co., Rochester, N. Y. Carbon-paper and typewriter-ribbons. No. 133,945; Aug. 10; v. 277; p. 386.

Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blooms, &c. No. 134,164; Aug. 17; v. 277; p. 581.

D–A Lubricant Company, Washington, D. C., and Indianapolis, Ind. Lubricating-greases. No. 133,625; Aug. 3; v. 277; p. 171.

Danda-Halpern Co., Inc., New York, N. Y. Hand-bags. No. 133,626; Aug. 3; v. 277; p. 171.

Davis, Charles C., Chicago, Ill. Clothes-lines. No. 133,627; Aug. 3; v. 277; p. 171.

Dawson, Clarence O., Blair, Nebr. Canned vegetables. Nos. 133,946–9; Aug. 10; v. 277; p. 386.

Decker, Jacob E., & Sons, Mason City, Iowa. Hams, bacon, and picnic hams. No. 133,950; Aug. 10; v. 277; p. 386.

Deeds & Chapin, Indianapolis, Ind. Cementing composition for joining metal, especially steel. No. 133,628; Aug. 3; v. 277; p. 171.

De Forest Radio Telephone and Telegraph Company, New York, N. Y. Wireless telegraph and telephone apparatus. Nos. 134,318–14; Aug. 24; v. 277; p. 782.

Delite Manufacturing Co., The, Bryan, Ohio. Clothes-washing machines. No. 133,630; Aug. 3; v. 277; p. 171.

Delmonico, Charles C., New York, N. Y. Candy. No. 133,952; Aug. 10; v. 277; p. 387.

De Luxe Thread Corp., New York, N. Y. Sewing-Cotton. No. 134,353; Aug. 31; v. 277; p. 971.

De Montmorency, Beresford B. Chicago, Ill. Teas. No. 133,908; Aug. 10; v. 277; p. 385.

De Nordiske Fabriker De No Fa Aktiesselskab, Christiania, Norway. Abrasive, detergent, and polishing materials. No. 133,631; Aug. 3; v. 277; p. 171.

De Nordiske Fabriker De-No-Fa, Aktiesselskab, Christiania, Norway. Refined and unrefined fats. No. 133,951; Aug. 10; v. 277; p. 387.

Despol, Anton, Palo Alto, Calif. Auto-body polish. No. 133,632; Aug. 3; v. 277; p. 171.

Detroit Creamery Company, Detroit, Mich. Ice-cream. No. 134,231; Aug. 24; v. 277; p. 777.

Diamond Grinder Company, Cedar Falls, Iowa. Grist-mills. No. 133,633; Aug. 3; v. 277; p. 171.

Diamond State Fiber Company, Elsmere, Del., and Bridgeport, Pa. Electrical insulation and insulating objects. No. 133,953; Aug. 10; v. 277; p. 387.

Dietetic Cellulose Company, Chicago, Ill. Flours and meals employed for making dietetic foods. No. 133,954; Aug. 10; v. 277; p. 387.

Dittrich, August C., Chicago, Ill. Clocks. No. 133,634; Aug. 3; v. 277; p. 171.

Dixie Fruit Products Corporation, New York, N. Y. Vinegar. No. 134,232; Aug. 24; v. 277; p. 777.

Dixie Fruit Products Corporation, New York, N. Y. Canned vegetables. No. 134,354; Aug. 31; v. 277; p. 971.

Dodge, A., & Son Corp., Beverly, Mass. Wheat-flour, bran, middlings, &c. No. 133,955; Aug. 10; v. 277; p. 387.

Dolph, John C., Company, Newark, N. J. Insulating material. No. 133,956; Aug. 10; v. 277; p. 387.

Donmeyer, Gardner Co., Peoria, Ill. Wheat-flour. Nos. 134,233–4; Aug. 24; v. 277; p. 777.

Dow Pump and Diesel Engine Company, Alameda, Calif. Pumps, condensers, and engines. No. 133,635; Aug. 3; v. 277; p. 171.

Doyle, Henry J., Lyndhurst, N. J. Sun-shields for automobiles. Nos. 134,355; Aug. 31; v. 277; p. 971.

Draper Corporation, Hopedale, Mass. Looms and parts thereof. No. 134,315; Aug. 24; v. 277; p. 782.

Drury Engineering Company, Evansville, Ind. Electric-lighting plants for farms. No. 133,636; Aug. 3; v. 277; p. 171.

Dulle, G. H., Milling Co., Jefferson City, Mo. Flour made from wheat. No. 133,957; Aug. 10; v. 277; p. 387.

Duluth Creamery & Produce Company, Duluth, Minn. Ice-cream and butter. No. 134,356; Aug. 31; v. 277; p. 971.

Dwight Divine & Sons, Ellenville, N. Y. Knives. No. 133,637; Aug. 3; v. 277; p. 171.

Eagle Cotton Mills Co., Madison, Ind. Rope yarns and cotton twines and cordage. Nos. 133,638–9; Aug. 3; v. 277; p. 171.

Easterday, William A., Washington, D. C. Candies. No. 134,357; Aug. 31; v. 277; p. 971.

Eastern Machine Screw Corporation, The. Automatic die heads, collapsible taps, threading machines, &c. No. 134,165; Aug. 17; v. 277; p. 581.

Eckstein, Joseph, New York, N. Y. Ladies', misses', and children's suits, coats, waists, dresses, and skirts. No. 133,640; Aug. 3; v. 277; p. 171.

Educational Supply Company, The. Painesville, Ohio. School-report cards, class-record books, excuse-blanks, and school-registers. No. 133,958; Aug. 10; v. 277; p. 387.

Educator Co., The, Philadelphia, Pa. Medicinal treatment for pyorrhea. No. 134,430; Aug. 31; v. 277; p. 974.

Eforose Sugar Co., The, Cincinnati, Ohio. Malt syrup for food purposes. No. 133,959; Aug. 10; v. 277; p. 387.

Ely & Walker Dry Goods Company, St. Louis, Mo. Jumpers and overalls. No. 133,641; Aug. 3; v. 277; p. 172.

Ely & Walker Dry Goods Company, St. Louis, Mo. Oil-cloth. No. 133,642; Aug. 3; v. 277; p. 172.

Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 133,643; Aug. 3; v. 277; p. 172.

Engle and Zeimer, New York, N. Y. Ladies' hats. No. 133,644; Aug. 3; v. 277; p. 172.

Equitable Cream Separator Company, New York, N. Y. Cream-separator. No. 133,645; Aug. 3; v. 277; p. 172.

Esmond Mills, The, Jersey City, N. J. Cotton bed-blankets. No. 133,646; Aug. 3; v. 277; p. 172.

Essex Rubber Company, Trenton, N. J. Tank-balls. No. 134,166; Aug. 17; v. 277; p. 581.

Eureka Packing Co., Sales Dep't, New York, N. Y. Machinery packing. No. 133,647; Aug. 3; v. 277; p. 172.

Fabart Instrument Co., Chicago, Ill. Mechanical fire-alarms. No. 133,648; Aug. 3; v. 277; p. 172.

Fair, The, Chicago, Ill. Sheets and pillow-cases. No. 133,650; Aug. 3; v. 277; p. 172.

Fairchild Bros. & Foster, New York, N. Y. Food product to be used as a food for infants, &c. No. 133,960; Aug. 10; v. 277; p. 387.

Faire Bros. & Co., Leicester, England. Elastic webs. No. 133,961; Aug. 10; v. 277; p. 387.

Farm Equipment Co., The, Baltimore, Md. Corn, feed, and grain bins, hog-feeders, troughs, and silo-chutes. No. 133,649; Aug. 3; v. 277; p. 172.

Farm Equipment Co., The, Baltimore, Md. Machinery, tools, and parts thereof. No. 134,156; Aug. 17; v. 277; p. 581.

Farm Equipment Co., The, Baltimore, Md. Swingletrees, &c., for vehicles and swingletrees for farm implements. No. 134,358; Aug. 31; v. 277; p. 971.

Farm Equipment Co., The, Baltimore, Md. Knockdown garages, animal and poultry houses, &c. No. 134,359; Aug. 31; v. 277; p. 971.

Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 133,651; Aug. 3; v. 277; p. 172.

Federal Soap Company, The, Columbus, Ohio. Yellow laundry soap. No. 133,652; Aug. 3; v. 277; p. 172.

Feigel, M., & Bro, Inc., New York, N. Y. Glue. No. 134,235; Aug. 24; v. 277; p. 777.

Feldman, Manuel, New York, N. Y. Rag and grass rugs. No. 133,653; Aug. 3; v. 277; p. 172.

Ferris Shoe Company, The, Philadelphia, Pa., and Cleveland, Ohio. Children's and infants' leather shoes. No. 133,654; Aug. 3; v. 277; p. 172.

Fikes, William J., St. Louis, Mo. Pudding-powder. No. 134,360; Aug. 31; v. 277; p. 972.

Fine & Levy, New York, N. Y. Men's and boys' caps. No. 133,655; Aug. 3; v. 277; p. 172.

Fisher, Nath'l, & Co., New York, N. Y. Boots, shoes, and slippers of leather, rubber, &c. Nos. 133,762–3; Aug. 3; v. 277; p. 175.

Fisheries Products Co., Inc., The, New York, N. Y. Fertilizers. No. 134,361; Aug. 31; v. 277; p. 972.

Flex-Tic Supply Company, The, Harris, Iowa. Auction-sale outfits. No. 133,963; Aug. 10; v. 277; p. 387.

Foamite Firefoam Company, New York, N. Y. Hand-operated portable and stationary fire-extinguishers. No. 133,964; Aug. 10; v. 277; p. 387.

Ford Manufacturing Co., Waterford, N. Y. Knitted underwear for men and children. No. 133,656; Aug. 3; v. 277; p. 172.

Ford Mica Company, Inc., New York, N. Y. Spark-plugs. No. 133,657; Aug. 3; v. 277; p. 172.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 133,658–9; Aug. 3; v. 277; p. 172.

Fortune Products Company, Chicago, Ill. Spaghetti, macaroni, vermicelli, and egg-noodles. Nos. 133,965–6; Aug. 10; v. 277; p. 387.

Foster, C. B., Biloxi, Miss. Canned shrimp. No. 134,362; Aug. 31; v. 277; p. 972.

Fowler, Charles A., Chicago, Ill. Syrup used for making non-alcoholic, non-intoxicating, maltless beverages. No. 133,660; Aug. 3; v. 277; p. 172.

Fox River Paper Company, Appleton, Wis. Writing-paper. No. 134,316; Aug. 24; v. 277; p. 782.

Frampton Chemical Co., Seattle, Wash. Soaps, cleansers, and metal-polishes. No. 133,967; Aug. 10; v. 277; p. 387.

Freadrich, Joseph J., St. Louis, Mo. Leather belting. Nos. 133,661–2; Aug. 3; v. 277; p. 172.

Freden, Alfred L., Brooklyn, N. Y. Bouillon-cubes. No. 134,236; Aug. 24; v. 277; p. 777.

Free Land Overall Manufacturing Co., The, Freeland and Dubois, Pa. Overalls. No. 133,663; Aug. 3; v. 277; p. 172.

Freihofer, Stanley H., Atlantic City, N. J. Bread. No. 133,664; Aug. 3; v. 277; p. 172.

Friedman & Moss, Inc., New York, N. Y. Plain and printed broad silks in pieces. No. 133,666; Aug. 3; v. 277; p. 172

Friedman & Moss, Inc., New York, N. Y. Plain and printed broad silks in pieces. No. 133,968; Aug. 10; v. 277; p. 387.

Frishmuth Bro. & Company, Inc., Philadelphia, Pa. Smoking and chewing tobacco and cigarettes. No. 133,665; Aug. 3; v. 277; p. 172.

Frits-Richards Company, Lynchburg, Va. Leather shoes. No. 134,364; Aug. 31; v. 277; p. 972.

Fuchs, Philip, New York, N. Y. Salves and ointments for treatment of the skin. No. 134,363; Aug. 31; v. 277; p. 972.

Furman, Robert T., New York, N. Y. Library-paste, mucilage. No. 134,237; Aug. 24; v. 277; p. 778.

G. & H. Chemical Co., Inc., New York, N. Y. Metal-polish. No. 133,931; Aug. 10; v. 277; p. 386.

Gallagher, John, Auburn, Wash. Medicinal preparation for catarrh, asthma, and bronchial troubles. No. 133,667; Aug. 3; v. 277; p. 172.

Galveston Typewriter Exchange, Inc., Galveston, Tex. Typewriter-ribbons and carbon-paper. No. 133,969; Aug. 10; v. 277; p. 387.

Gambrill, C. A., Manufacturing Company, Baltimore, Md. Cereal products and prepared cake-flour. No. 133,970; Aug. 10; v. 277; p. 387.

Gambrill Grain Products Company, The, Baltimore, Md. Barley malt-flour. No. 134,238; Aug. 24; v. 277; p. 778.

Gem Safety Razor Corporation, Brooklyn, N. Y. Shaving-brushes. No. 134,365; Aug. 31; v. 277; p. 972.

General Motors Export Company, New York, N. Y. Printed monthly publication. No. 133,971; Aug. 10; v. 277; p. 387.

General Necessities Corporation, Detroit, Mich. Artificial ice. No. 134,366; Aug. 31; v. 277; p. 972.

General Paper and Cordage Company, Pittsburgh, Pa. Wrapping-paper. No. 133,972; Aug. 10; v. 277; p. 387.

Gentile, Oronzio, West Hoboken, N. J. Leather shoes. No. 133,670; Aug. 3; v. 277; p. 172.

Georgis, George T., New York, N. Y. Soap. No. 133,671; Aug. 3; v. 277; p. 172.

Ghosh, Satish C., Chicago, Ill. Incense. No. 134,436; Aug. 31; v. 277; p. 974.

Gillette Safety Razor Company, Boston, Mass. Safety-razors and safety-razor blades. No. 134,317; Aug. 24; v. 277; p. 782.

Gilman, A. S., Printing Company, The, Cleveland, Ohio. Blank forms. No. 133,973; Aug. 10; v. 277; p. 387.

Giroux, Pierre E., & Co., Johnstown, N. Y. Slippers. No. 133,780; Aug. 3; v. 277; p. 176.

Glass, Henry, & Co., New York, N. Y. Voiles and sateen in the piece. Nos. 133,668–9; Aug. 3; v. 277; p. 172.

Glemby, S., Inc., New York, N. Y. Hair-nets. Nos. 133,672–4; Aug. 3; v. 277; p. 172.

Glidden, Joseph F., Lakewood, Ohio. Basic oil for paint and varnish building. No. 133,974; Aug. 10; v. 277; p. 387.

Glidden Nut Butter Company, The, Chicago, Ill. Oleomargarin. Nos. 134,239–40; Aug. 24; v. 277; p. 778.

Globe Canning Company, Eastport, Me. Canned sardines. Nos. 124,241–3; Aug. 24; v. 277; p. 778.

Goetze Gasket & Packing Company, New Brunswick, N. J. Asbestos composition packings. No. 133,887; Aug. 3; v. 277; p. 179.

Goheen Corporation, The Wilmington, Del., and Warren, Ohio. Fireproof paint for wood. No. 133,680; Aug. 3; v. 277; p. 173.

Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for concrete, cement, brick, tile, &c. No. 133,679; Aug. 3; v. 277; p. 173.

Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for galvanized iron. No. 133,677; Aug. 3; v. 277; p. 173.

Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for iron and steel. Nos. 133,675–6; Aug. 3; v. 277; p. 173.

Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Red-lead paint. No. 133,678; Aug. 3; v. 277; p. 173.

Goldenwest Citrus Assn., Tustin, Calif. Citrus fruits. No. 134,367; Aug. 31; v. 277; p. 972.

Goldsmith Brothers Smelting and Refining Company, Chicago, Ill. Pearls. No. 133,975; Aug. 10; v. 277; p. 387.

Goodrich, B. F., Company, The, New York, N. Y. Battery-jars made of rubber. No. 133,681; Aug. 3; v. 277; p. 173.

Goodrich, B. F., Company, The, New York, N. Y. Battery-jars made of rubber. Nos. 133,976–7; Aug. 10; v. 277; p. 387.

Gordon & Dilworth, Inc., New York, N. Y. Preserved fruits, jellies, jams, &c. No. 133,978; Aug. 10; v. 277; p. 387.

Gosselin Trading Corporation, New York, N. Y. Cigarettes, cigars, pipe and chewing tobacco. No. 133,682; Aug. 3; v. 277; p. 173.

Gosselin Trading Corporation, New York, N. Y. Ink in tablet form. No. 133,979; Aug. 10; v. 277; p. 387.

Gould, Wells & Blackburn Co., Madison, Wis. Foods. No. 133,980; Aug. 10; v. 277; p. 387.

Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Cotton piece goods. No. 133,683; Aug. 3; v. 277; p. 173.

Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Canned fruit. No. 133,981; Aug. 10; v. 277; p. 387.
Grafton and Knight Manufacturing Company, The, Worcester, Mass. Leather belting. No. 133,687; Aug. 3; v. 277; p. 173.
Grain Soaps Corporation, Dover, Del., and Jersey City, N. J. Soaps and soap powders. No. 133,982; Aug. 10; v. 277; p. 388.
Grand Union Tea Co., Brooklyn, N. Y. Dentifrice. No. 133,684; Aug. 3; v. 277; p. 173.
Granger & Company, Buffalo, N. Y. Mince-meat. No. 133,983; Aug. 10; v. 277; p. 388.
Granger, Fred L., Benton Harbor, Mich. Fruits—namely, Concord grapes in their natural state. No. 134,368; Aug. 31; v. 277; p. 972.
Grape Ola Products Corporation, New York, N. Y. Ginger-ale. No. 133,685; Aug. 3; v. 277; p. 173.
Grape Ola Products Corporation, New York, N. Y. Grape-juice. No. 133,686; Aug. 3; v. 277; p. 173.
Gray, Judah P., Nampa and Emmett, Idaho. Fresh apples. No. 134,244; Aug. 24; v. 277; p. 778.
Great Western Smelting & Refining Company, Chicago, Ill. Babbitt, bearing, and type metals. No. 134,167; Aug. 17; v. 277; p. 581.
Greb Company, Inc., The, Portland, Me., and Boston, Mass. Tools. No. 134,157; Aug. 17; v. 277; p. 581.
Griffin Mfg. Co. Inc., New York, N. Y. Shoe-polish. No. 133,688; Aug. 3; v. 277; p. 173.
Griggs-Paxton Shoe Co., Inc., Roanoke, Va. Boots and shoes of leather, leather and fabric, and rubber fabric. No. 133,689; Aug. 3; v. 277; p. 173.
Guarantee Specialty Manufacturing Company, The, Cleveland, Ohio. Snap-fasteners. No. 133,690; Aug. 3; v. 277; p. 173.
Gumpert, S. & Co., Brooklyn, N. Y. Food-powder to be used in the place of whites of eggs. No. 133,984; Aug. 10; v. 277; p. 388.
H. D. Overall Co., Washington, D. C. Overalls, unionalls, and jumpers. No. 133,772; Aug. 3; v. 277; p. 176.
H. K. H. Silk Co. of New York, Inc., The, New York, N. Y. Natural and artificial silk threads and yarns. Nos. 134,379–80; Aug. 31; v. 277; p. 972.
Haas, Baruch & Co., Los Angeles, Calif. Foods and ingredients of foods. No. 134,369; Aug. 31; v. 277; p. 972.
Hall & Pickles Limited, Manchester, England. Metals and metal castings and forgings. No. 133,691; Aug. 3; v. 277; p. 173.
Halladay & Son, Battle Creek, Mich. Catsup, vinegar, peas, coffee, &c. No. 133,992; Aug. 10; v. 277; p. 388.
Halperin, Nathan, Brooklyn, N. Y. Wearing-apparel for males and females, known as jerseys. No. 133,692; Aug. 3; v. 277; p. 173.
Hamburger, D. Ellis, Brooklyn, N. Y. Candy. No. 133,985; Aug. 10; v. 277; p. 388.
Hammon, James H., Vincennes, Ind. Spectacle-lenses, lens-blanks, and spectacle-frames. No. 133,693; Aug. 3; v. 277; p. 173.
Hancock Eugenia G., New York, N. Y. Antiseptic and astringent. No. 134,370; Aug. 31; v. 277; p. 972.
Hanson & Van Winkle Company, The, Newark, N. J. Preparation for polishing metals. Nos. 133,986–7; Aug. 10; v. 277; p. 388.
Harding, Ralph T., Kansas City, Mo. Animal foods, particularly bird-seed. No. 134,371; Aug. 31; v. 277; p. 972.
Hardy, F. A., & Company, Chicago, Ill. Blanket of insulating material for electrical workers, linemen, and persons similarly employed. No. 133,694; Aug. 3; v. 277; p. 173.
Harley, E. C., Company, The, Dayton, Ohio. House and barn paints. No. 133,696; Aug. 3; v. 277; p. 173.
Harper & McIntire Company, Incorporated, Ottumwa, Iowa. Chicken-waterers, and chicken-coops. No. 134,372; Aug. 31; v. 277; p. 972.
Harper & McIntire Company, Incorporated, Ottumwa, Iowa. Bicycles. No. 134,373; Aug. 31; v. 277; p. 972.
Harnham Bros. Co., Lincoln, Nebr. Horse-collar. No. 133,697; Aug. 3; v. 277; p. 173.
Harrell, Arlando T., Chicago, Ill. Candy. No. 133,988; Aug. 10; v. 277; p. 388.
Hartman Company, The, Chicago, Ill. Animal-feed cookers. No. 134,168; Aug. 17; v. 277; p. 581.
Hartmann Brothers, Inc., New York, N. Y. Hair-nets. No. 133,699; Aug. 3; v. 277; p. 173.
Hassebrock Brothers, St. Peter, Ill. Patches for wheel-tire tubes. No. 133,698; Aug. 3; v. 277; p. 173.
Havre, Jean B., San Francisco, Calif. Petroleum products. No. 133,700; Aug. 3; v. 277; p. 173.
Hawley and Hoops, New York, N. Y. Candles. No. 133,989; Aug. 10; v. 277; p. 388.
Haynes Stellite Co., The, Kokomo, Ind. Blades and cutters for milling, turning, and the like metal-working machinery. No. 134,158; Aug. 17; v. 277; p. 581.
Hedman, Nels O., Leadville, Colo. Saw-sets. No. 134,160; Aug. 17; v. 277; p. 581.
Heilig, Luther A., San Diego, Calif. Optical lenses for spectacles and eyeglasses. No. 134,159; Aug. 17; v. 277; p. 581.
Hekman & Goodman Candy Company, The, Denver, Colo. Candies. No. 134,374; Aug. 31; v. 277; p. 972.
Heller, B., and Company, Chicago, Ill. Soluble and powdered stabilising agent to be employed in the manufacture of ice-cream. No. 134,375; Aug. 31; v. 277; p. 972.
Hendler Creamery Company, The, Baltimore, Md. Ice-cream, frozen custard, and ices. No. 134,376; Aug. 31; v. 277; p. 972.
Hendricks, Charles I., New York, N. Y. Protective coverings for attachments to the platens or rolls of typewriters and adding-machines. No. 134,170; Aug. 17; v. 277; p. 581.
Heppenstall Forge and Knife Company, Pittsburgh, Pa. Heat-treated forgings. No. 134,171; Aug. 17; v. 277; p. 581.
Herbert Packing Co., Inc., San Jose, Calif. Canned fruits. No. 133,991; Aug. 10; v. 277; p. 388.
Herbert Packing Co., Inc., San Jose, Calif. Canned fruits and vegetables. No. 133,990; Aug. 10; v. 277; p. 388.
Herrmann, Geo., Company, San Francisco, Calif. Hops. No. 134,377; Aug. 31; v. 277; p. 972.
Higgins Spring & Axle Company, Racine, Wis. Vehicle-springs and spring-plates and spring-leaves for such springs. No. 134,378; Aug. 31; v. 277; p. 972.
Hill, Gilbert J., Newark, N. J. Drawing-compasses. No. 133,701; Aug. 3; v. 277; p. 173.
Hirsch, Max, Philadelphia, Pa. Wrist-watch straps. No. 133,702; Aug. 3; v. 277; p. 173.
Hodshon Hat Co., Newark, Paterson, Passaic, and New Brunswick, N. J., and Wheeling, W. Va. Men's hats. No. 133,703; Aug. 3; v. 277; p. 173.
Hoefner, A., & Sons, Buffalo, N. Y. Soaps and washing-powders. No. 134,381; Aug. 31; v. 277; p. 972.
Hogue, Charles L., Oakland, Calif. Eyeglasses. No. 134,245; Aug. 24; v. 277; p. 778.
Hollingshead, W. R., Co., Binghamton, N. Y. Stove and shoe polishes, stove and shoe polishing outfits, and shoe-cleaner. No. 133,993; Aug. 10; v. 277; p. 388.
Holt Manufacturing Company, The, Stockton, Calif. Machines and parts thereof. No. 134,172; Aug. 17; v. 277; p. 581.
Home Comfort Company, The, St. Paul, Minn. Bread and cake boxes. No. 133,704; Aug. 3; v. 277; p. 173.
Hones, Charles A., Brooklyn, N. Y. Gas soldering-furnaces, soft-metal furnaces, burners, and torches. No. 134,382; Aug. 31; v. 277; p. 972.
Hood Rubber Company, Watertown, Mass. Rubber cushion and pneumatic tires and tubes and tire-repair patches or reinforcements. No. 134,383; Aug. 31; v. 277; p 972.
Hood Tire Co. Inc., Watertown, Mass. Rubber vehicle-tires. No. 134,384; Aug. 31; v. 277; p. 972.
Horlick's Food Company, Racine, Wis. Preparations for the modification of milk. No. 133,994; Aug. 10; v. 277; p. 388.
Hormel Milling Company, Austin, Minn. Wheat-flour. No. 134,246; Aug. 24; v. 277; p. 778.
Hoster-Columbus Company, Inc., Columbus, Ohio. Non-alcoholic cereal maltless beverage sold as a soft drink. No. 133,705; Aug. 3; v. 277; p. 173.
Howell, W. H. Company, The, Geneva, Ill. Fire-pumps. No. 134,318; Aug. 24; v. 277; p. 782.
Hubbell-Plummer, Beatrice, Los Angeles, Calif. Smocks and aprons. No. 133,783; Aug. 3; v. 277; p. 176.
Hughes & Curren Co., Inc., Rochester, N. Y. Tops, fenders, and clutch-hooks as accessories for tractors. No. 134,173; Aug. 17; v. 277; p. 581.
Hunter Mfg. & Com. Co., New York, N. Y. Cotton piece goods. No. 133,995; Aug. 10; v. 277; p. 388.
Hunter Pressed Steel Co., Lansdale borough, Pa. Grease-cups. No. 134,174; Aug. 17; v. 277; p. 581.
Hyco Fuel Products Corpn., New York, N. Y. Self-generating gas-burners. No. 134,385; Aug. 31; v. 277; p. 972.
International Braid Company, Providence, R. I. Shoe, corset, and underwear lacings of linen, silk, or worsted. No. 133,706; Aug. 3; v. 277; p. 173.
International Film Service Co., Inc, New York, N. Y. Motion-picture films. No. 133,707; Aug. 3; v. 277; p. 174.
International Sugar Feed Co., Minneapolis, Minn. Calf-meal. No. 133,998; Aug. 10; v. 277; p. 388.
International Sugar Feed Co., Minneapolis, Minn. Dairy-feed. No. 133,996; Aug. 10; v. 277; p. 388.
International Sugar Feed Co., Minneapolis, Minn. Pig-meal. No. 133,997; Aug. 10; v. 277; p. 388.
Interstate Cotton Oil Refining Company, Sherman, Tex. Shortening for cooking and oil for cooking and salad purposes. No. 133,999; Aug. 10; v. 277; p. 388.
Ivory Polish Company, Elyria, Ohio. Shoe-polish. No. 133,708; Aug. 3; v. 277; p. 174.
Jackson, C. D., & Co. Inc., New York, N. Y. Marble and stone. Nos. 134,388–97; Aug. 31; v. 277; pp. 972–3.
Jackson, J., Limited, Bramley, England. Taps and valves of metal for general use with fluids. No. 134,175; Aug. 17; v. 277; p. 581.
Jewell Belting Company, Hartford, Conn. Beltings and laces. No. 133,709; Aug. 3; v. 277; p. 174.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 134,001; Aug. 10; v. 277; p. 388.
Johnson Educator Food Co., Boston, Mass. Peanut-butter and cereal coffee. No. 134,000; Aug. 10; v. 277; p. 388.
Johnson, F. N., Maple Syrup Company, The, Bellefontaine, Ohio. Cane and maple syrup. No. 134,002; Aug. 10; v. 277; p. 388.
Johnson & Murray, Incorporated, Utica, Watertown, and Ogdensburg, N. Y. Canned vegetables, sliced dried beef, jam, coffee, &c. No. 134,398; Aug. 31; v. 277; p. 973.

Johnson & Murray, Inc., Utica, N. Y. Canned lye, bluing, and ammonia in glass. No. 134,399; Aug. 31; v. 277; p. 973.
Johnson, Robert A., Company, Milwaukee, Wis. Candy. No. 134,247; Aug. 24; v. 277; p. 778.
Johnson, Roe L., New York, N. Y. Tools. No. 134,176; Aug. 17; v. 277; p. 581.
Johnston, Robert A., Co., Milwaukee, Wis. Candies. No. 134,400; Aug. 31; v. 277; p. 973.
Jones, D. Stuart, Washington, D. C. Coffee and tea. No. 134,003; Aug. 10; v. 277; p. 388.
Jones, Harry A., Baltimore, Md. Tea. No. 134,248; Aug. 24; v. 277; p. 778.
Jones, Joseph M., Baltimore, Md. Insecticide and fungicide. No. 134,177; Aug. 17; v. 277; p. 582.
Jones & Pettigrew, San Francisco, Calif. Fresh fruits. No. 134,249; Aug. 24; v. 277; p. 778.
Jureidini Export Company, New York, N. Y. Lingerie, underwear, shoes, and hats. No. 133,710; Aug. 3; v. 277; p. 174.
Kahan, Joseph C., Philadelphia, Pa. Optical goods. No. 134,178; Aug. 17; v. 277; p. 582.
Kandykraft Korporation, New York, N. Y. Chocolate. No. 134,401; Aug. 31; v. 277; p. 973.
Kaufmann Department Stores Inc., Pittsburgh, Pa. Bicycle-tires. No. 133,711; Aug. 3; v. 277; p. 174.
Kellerman, Isidor, New York, N. Y. Furniture and automobile-body polishes. No. 134,004; Aug. 10; v. 277; p. 388.
Kelley-Robinson Corporation, The, assignor to The So-Lite Company, Incorporated, New York, N. Y. Doughnuts. No. 134,005; Aug. 10; v. 277; p. 388.
Kellogg Products Inc., Buffalo, N. Y. Oleomargarin. No. 134,006; Aug. 10; v. 277; p. 388.
Kelly, Patrick H., Philadelphia, Pa. Burial boxes, caskets, and vaults. No. 133,712; Aug. 3; v. 277; p. 174.
Kern, C., Products Co., Port Huron, Mich. Malt beverages, extracts, and liquors. No. 133,713; Aug. 3; v. 277; p. 174.
Keystone Driller Company, Beaver Falls, Pa. Machinery. No. 134,179; Aug. 17; v. 277; p. 582.
Keystone Fruit Products Company, Cincinnati, Ohio. Non-alcoholic, non-cereal, maltless syrup, for making soda-water beverages. No. 134,007; Aug. 10; v. 277; p. 388.
Kickbusch, A., Grocery Co., Wausau, Wis. Canned goods, &c. No. 134,250; Aug. 24; v. 277; p. 778.
Kleenx Company, The, Cleveland, Ohio. Cleaning preparations for articles of straw and similar materials. No. 134,402; Aug. 31; v. 277; p. 973.
Kohler, Peter Callier, Swiss Chocolates Co., Inc., New York, N. Y. Chocolates. No. 134,098; Aug. 10; v. 277; p. 891.
Korket Company, The, Detroit, Mich. Flush-tank outlet-valves. No. 133,714; Aug. 3; v. 277; p. 174.
Kraft, J. L., & Bros. Co., Chicago, Ill., and New York, N. Y. Cheese. No. 134,008; Aug. 10; v. 277; p. 388.
Krug, Fred, Products Co., Omaha, Nebr. Non-intoxicating malt beverage. No. 134,403; Aug. 31; v. 277; p. 973.
Kwikmix Manufacturing Co., New York, N. Y. Soft-drink-mixing machines. No. 133,715; Aug. 3; v. 277; p. 174.
La Fayette Motor Company, Indianapolis, Ind. Automobiles. Nos. 134,404–5; Aug. 31; v. 297; p. 973.
Lamar, Taylor & Riley Drug Co., Macon, Ga. Skin-cream. No. 133,716; Aug. 3; v. 277; p. 174.
Lamborn & Co., New York, N. Y. Sugar, American wheat-flour, and tea. No. 134,406; Aug. 31; v. 277; p. 973.
Lapeyre Brothers, Great Falls, Mont. Toilet cream for the skin. No. 134,407; Aug. 31; v. 277; p. 973.
Laug, John, Lakewood, N. J. Candy. No. 134,408; Aug. 31; v. 277; p. 973.
Lead Products Company, St. Louis, Mo. Lead products—namely, red lead, litharge, and orange mineral. No. 133,717; Aug. 3; v. 277; p. 174.
Lemon, Ernest N., Lynchburg, Ohio. Eggs for hatching and poultry. No. 134,009; Aug. 10; v. 274; p. 388.
Leonard, Andrew J., West Branch, Mich. Hand-washing compounds. No. 134,010; Aug. 10; v. 277; p. 388.
Leota Food Products Co., Oak Park, Ill. Food. No. 134,011; Aug. 10; v. 277; p. 388.
Lersch, Verne D., Wellington, Ohio. Breakfast foods. No. 134,251; Aug. 24; v. 277; p. 778.
Leis Manufacturing Company, The, Crown Point, Ind. Stock-feed crushers and feed-grinders and parts thereof, &c. No. 133,718; Aug. 3; v. 277; p. 174.
Lever Brothers Company, Cambridge, Mass. Cooking compound comprising oils and hydrogenated oils. No. 134,252; Aug. 24; v. 277; p. 778.
Levin, Charles D., New York, N. Y. Men's outer suits and overcoats. No. 133,719; Aug. 3; v. 277; p. 174.
Lewis Manufacturing Company, Walpole, Mass. Textile fabrics. No. 133,720; Aug. 3; v. 277; p. 174.
Link-Belt Company, Chicago, Ill.; Philadelphia, Pa., and Indianapolis, Ind. Idlers and rolls for conveying machinery. No. 133,721; Aug. 3; v. 277; p. 174.
Lion Brewery of New York City, New York, N. Y. Malt beverages, extracts, and liquors. No. 133,722; Aug. 3; v. 277; p. 174.
Little Goddess Dress Co. Inc., The, New York, N. Y. Children's dresses. No. 134,012; Aug. 10; v. 277; p. 388.
Loeb, S. S., & Co., Boston, Mass. Clothing. No. 133,723; Aug. 3; v. 277; p. 174.
Loewer's, V., Gambrinus Brewery Co., New York, N. Y. Non-alcoholic malt beverages. No. 133,724; Aug. 3; v. 277; p. 174.
Logan, Thos. H., Co., Hudson, Mass. Boots and shoes. No. 133,848; Aug. 3; v. 277; p. 178.
Long, A. J., Cigar & Grocery Co., Macon, Ga. Cigars. No. 133,725; Aug. 3; v. 277; p. 174.
Longino & Collins, New Orleans, La. Butter. No. 134,013; Aug. 10; v. 277; p. 388.
Longmont Farmers Milling & Elevator Co., The, Longmont, Colo. Wheat-flour. No. 133,726; Aug. 3; v. 277; p. 174.
Lorraine Watch Co. Inc., New York, N. Y. Watches. No. 134,014; Aug. 10; v. 277; p. 388.
Lowenstein, M., & Sons, Inc., New York, N. Y. Unbleached, dyed, and printed drills, twills, and sheeting. No. 133,727; Aug. 3; v. 277; p. 174.
Lower California Packing Plants, Los Angeles, Calif. Canned fish. No. 134,015; Aug. 10; v. 277; p. 389.
Lunn & Sweet Co., Auburn, Me. Leather shoes and Juliettes. No. 133,728; Aug. 3; v. 277; p. 174.
Luthy Storage Battery Company, Newark, N. J. Storage batteries. No. 134,016; Aug. 10; v. 277; p. 389.
Luxite Silk Products Co., Milwaukee, Wis. Underwear. No. 133,729; Aug. 3; v. 277; p. 174.
Lynchburg Shoe Company, Lynchburg, Va. Boots and shoes of leather, &c. No. 134,409; Aug. 31; v. 277; p. 973.
McCarthy, Charles S., Jr., Sandusky, Ohio. Cultivators. No. 133,730; Aug. 3; v. 277; p. 174.
McCollough, W. A., & Sons, Webster City, Iowa. Watering-fountains for poultry and feed-hoppers for stock and poultry. No. 134,410; Aug. 31; v. 277; p. 973.
McComb Brothers, Searsdale, N. Y. Liquid furniture-polish. No. 133,731; Aug. 3; v. 277; p. 174.
McCormick & Co., Baltimore, Md. Lubricating, rust-preventing, and machine oils. No. 133,732; Aug. 3; v. 277; p. 174.
McCormick & Co., Baltimore, Md. Insect-powders. No. 134,319; Aug. 24; v. 277; p. 782.
McIntyre-Burrall Company, Green Bay, Wis. Harness and shoe leather. No. 134,320; Aug. 24; v. 277; p. 783.
McKenna, John S., Fresno, Calif. Liniment for wrenches, sprains, bruises, &c., and general tonic for horses and cows, &c. No. 134,017; Aug. 10; v. 277; p. 389.
McKesson & Robbins, Inc., New York, N. Y. Medicinal preparation for treatment of affections of the throat and bronchial tubes. No. 133,733; Aug. 3; v. 277; p. 174.
McKesson & Robbins, Inc., New York, N. Y. Throat-pastils. No. 133,734; Aug. 3; v. 277; p. 174.
McMillan, J. T., Company, St. Paul, Minn. Bacon and ham. No. 133,735; Aug. 3; v. 277; p. 174.
Macdonell, Allan G., New York, N. Y. Fertilizers. No. 134,412; Aug. 31; v. 277; p. 973.
Mackenzie, Robert F., Co., The, Cleveland, Ohio. Candy. Nos. 134,018–20; Aug. 10; v. 277; p. 389.
Maggioni, L. P., & Company, Savannah, Ga. Fresh oysters, canned or otherwise put up. Nos. 134,253–4; Aug. 24; v. 277; p. 778.
Malchow, Frederick, Brooklyn, N. Y. Embossing composition. No. 134,021; Aug. 10; v. 277; p. 389.
Malone & Hyde, Memphis, Tenn. Cane-syrup for table use. No. 134,386; Aug. 31; v. 277; p. 972.
Manhattan Rubber Mfg. Co., Passaic, N. J. Belting. No. 133,738; Aug. 3; v. 277; p. 174.
Manhattan Rubber Mfg. Co., The, New York, N. Y. Belting made partly of fabric and partly of rubber. No. 133,736; Aug. 3; v. 277; p. 174.
Manhattan Rubber Mfg. Co., The, Passaic, N. J. Belting, packing, and hose of rubber or rubber fabric. No. 133,737; Aug. 3; v. 277; p. 174.
Marathon Tire and Rubber Co., The, Cuyahoga Falls, Ohio. Belts manufactured partly of rubber for supporting garments. No. 133,739; Aug. 3; v. 277; p. 175.
Maschinenfabrik Schweiter A.-G., Horgen, Switzerland. Tools, apparatus, and tools for metal-working. No. 133,740; Aug. 3; v. 277; p. 175.
Maschinenfabrik Schweiter A.-G., Horgen, Switzerland. Machinery and parts thereof. No. 134,180; Aug. 17; v. 277; p. 582.
Mason, An & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 134,022; Aug. 10; v. 277; p. 389.
Mason An & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies and chocolates. No. 134,413; Aug. 31; v. 277; p. 973.
Mason, Davis & Company, Chicago, Ill. Weighing-scales. No. 134,255; Aug. 24; v. 277; p. 778.
Matthews, W. N., and Brother, Inc., St. Louis, Mo. Spraying devices. No. 134,181; Aug. 17; v. 277; p. 582.
Maurer, Oscar E., San Francisco, Calif. Food-syrup for baking purposes. No. 134,023; Aug. 10; v. 277; p. 389.
Maurice, R., and Company, Limited, Willesden, London, England. Enriched pastry-flour. No. 134,024; Aug. 10; v. 277; p. 389.
Maus, Charles F., Chicago, Ill. Cutlery. Nos. 134,182–3; Aug. 17; v. 277; p. 582.
Mayer, Oscar F., & Bro., Chicago, Ill. Foods and ingredients of foods. No. 133,741; Aug. 3; v. 277; p. 175.
Mayer, Oscar F., & Bro., Chicago, Ill. Foods. No. 134,025; Aug. 10; v. 277; p. 389.

Mayo-Skinner Mfg. Company, Chicago, Ill. Appliances used upon or in connection with automobiles. No. 133,742; Aug. 3; v. 277; p. 175.
Measuregraph Company, The, St. Louis, Mo. Fabric-measuring and cost-computing machines. No. 134,256; Aug. 24; v. 277; p. 778.
Medici Society—American Branch,—Inc., Boston, Mass. Prints and publications. No. 134,027; Aug. 10; v. 277; p. 389.
Meisel Press Manufacturing Company, Boston, Mass. Machinery. No. 134,184; Aug. 17; v. 277; p. 582.
Menist, J., Company, Inc., New York, N. Y. Canned vegetables and fruits. No. 134,027; Aug. 10; v. 277; p. 389.
Mensin, Morris, New York, N. Y. Men's dress-shirts. No. 133,743; Aug. 3; v. 277; p. 175.
Meritone Medicine Co., Nashville, Tenn. Tonic for nervousness, indigestion, and general debility. No. 133,744; Aug. 3; v. 277; p. 175.
Metal Office Furniture Co., Grand Rapids, Mich. Steel waste-baskets. No. 133,745; Aug. 3; v. 277; p. 175.
Mexican Products Corporation, Nogales, Ariz. Foods. No. 134,028; Aug. 10; v. 277; p. 389.
Mexico-Arizona Trading Company, Nogales, Ariz. Fresh fruits and vegetables. No. 134,414; Aug. 31; v. 277; p. 973.
Meyer, John F., Chicago, Ill. Coin-operated moving-picture-viewing machines. No. 133,746; Aug. 3; v. 277; p. 175.
Meyer, Otto, and Co., Inc., New York, N. Y. Leather shoes. No. 133,771; Aug. 3; v. 277; p. 176.
Michigan Lubricator Company, Detroit, Mich. Plumbing and steam-fitting supplies. No. 133,747; Aug. 3; v. 277; p. 175.
Michigan Lubricator Company, Detroit, Mich. Monthly publication. No. 134,029; Aug. 10; v. 277; p. 389.
Migel, J. A., Inc., New York, N. Y. Clothing. No. 133,748; Aug. 3; v. 277; p. 175.
Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 133,749; Aug. 3; v. 277; p. 175.
Miller, Ellis, New York, N. Y. Vehicle-tires. No. 133,750; Aug. 3; v. 277; p. 175.
Miller, Thomas R. E., Evansville, Ind. Metal pipes, pipe-couplings, reducers, unions, and elbows. No. 134,185; Aug. 17; v. 277; p. 582.
Miller, Willard A., Cambridge, Mass. Candy. No. 134,030; Aug. 10; v. 277; p. 389.
Mills Brothers Company, The, Cincinnati, Ohio. Powder to be used as a washing preparation. No. 134,031; Aug. 10; v. 277; p. 389.
Moberg, John H., Chicago, Ill. Automobile-springs. No. 134,415; Aug. 31; v. 277; p. 973.
Moller, Conrad G., New Canaan, Conn. Soaps for cleaning and scouring purposes. No. 133,751; Aug. 3; v. 277; p. 175.
Moller, Conrad G., New Canaan township, Fairfield county, Conn. Soap. No. 134,032; Aug. 10; v. 277; p. 389.
Monarch Foundry Company, Stockton, Calif. Iron, steel, brass, bronze, and aluminum castings and forgings of all kinds. No. 133,752; Aug. 3; v. 277; p. 175.
Monument Pottery Co., The, Trenton, N. J. Plumbing supplies. No. 133,753; Aug. 3; v. 277; p. 175.
Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Wool gloves. No. 133,754; Aug. 3; v. 277; p. 175.
Morrison Bros. Mills, Jefferson, Okla. Highest patent flour. No. 134,033; Aug. 10; v. 277; p. 389.
Morse, A. G., Co., Chicago, Ill. Candy. No. 134,034; Aug. 10; v. 277; p. 389.
Moskowitz, Joseph, Brooklyn, N. Y. Wheat-flour. No. 134,035; Aug. 10; v. 277; p. 389.
Movette, Incorporated, Rochester, N. Y. Motion-picture sundries. No. 133,755; Aug. 3; v. 277; p. 175.
Moyer, Walter W., Ephrata, Pa. Ladies' vests and union-suits of knitted fabric. No. 133,756; Aug. 3; v. 277; p. 175.
Multiple Electric Products Company, Inc., New York, N. Y. Electrical apparatus, machines, and supplies. No. 134,036; Aug. 10; v. 277; p. 389.
Munn, R. J., & Bros., Boston, Mass. Artificial flowers. No. 134,321; Aug. 24; v. 277; p. 783.
Munro, Allan P., Cincinnati, Ohio. Non intoxicating maltless beverage. No. 133,757; Aug. 3; v. 277; p. 175.
Murdock, Albert E., South Hingham, Mass. Malt extracts, concentrated food-powders, &c. No. 134,416; Aug. 31; v. 277; p. 973.
Musher & Company, Incorporated, Baltimore, Md. Olive-oil. No. 134,037; Aug. 10; v. 277; p. 389.
Mutual Creamery Company, Salt Lake City, Utah. Eggs subjected to a preservative process. No. 134,257; Aug. 24; v. 277; p. 778.
Mutual Service Corporation, New York, N. Y. Sweet potatoes in their natural state. No. 134,417; Aug. 31; v. 277; p. 973.
Nagano, Shinsaku, Chicago, Ill. Sauces for seasoning foods. No. 134,038; Aug. 10; v. 277; p. 389.
Nagle, W. E., & Son, Pittsburgh, Pa. Rivet-sets, chisel-blanks, reamers, and drills. No. 133,758; Aug. 3; v. 277; p. 175.
Napco Corporation, The, Indianapolis, Ind. Glue. No. 133,759; Aug. 3; v. 277; p. 175.
Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 134,039; Aug. 10; v. 277; p. 389.
Nathan and Cohen Co., Inc., New York, N. Y. Silk-filled crêpe-de-chine piece goods. No. 134,418; Aug. 31; v. 277; p. 973.
National Association of Employment Managers, Orange, N. J. Bulletins in form of pamphlets. No. 134,040; Aug. 10; v. 277; p. 389.
National Cash Register Company, The, Dayton, Ohio. Machines for printing, issuing, recording, and registering tickets, and their parts. No. 134,258; Aug. 24; v. 277; p. 778.
National Cloak & Suit Co., New York, N. Y. Ladies' and misses' blouses. No. 133,760; Aug. 3; v. 277; p. 175.
National Conduit & Cable Company, Inc., Hastings-on-Hudson, N. Y. Bare copper wire and cable, sheet brass and bronze, and brass and bronze rods. No. 133,761; Aug. 3; v. 277; p. 175.
National Licorice Company, Brooklyn, N. Y. Licorice confection. No. 134,419; Aug. 31; v. 277; p. 973.
National Water-Proofing Company, Memphis, Tenn. Water-proof clothing or coverings consisting of rain-coats, leggings, and puttees. No. 133,764; Aug. 3; v. 277; p. 175.
Nardi, Pasquali, New York, N. Y. Ladies' riding habits. No. 133,776; Aug. 3; v. 277; p. 176.
Neher, Irvin R., Ross, Mich. Chemical tablets for increasing the efficiency of gasolene. No. 134,420; Aug. 31; v. 277; p. 973.
Nemser, Joseph, New York, N. Y. Ladies' gowns for outer wear. No. 133,765; Aug. 3; v. 277; p. 175.
Neptune Fisheries, Ocean Grove, N. J. Sea foods, such as dried boneless codfish. No. 133,962; Aug. 10; v. 277; p. 387.
New Hampton Mills, New York, N. Y. Textile fabric of a silk and cotton mixture in the piece. No. 134,041; Aug. 10; v. 277; p. 389.
New Products Company, Pittsburgh, Pa. Gummed and ungummed paper and cloth strips or tapes in rolls and tape-moistening machines. No. 134,042; Aug. 10; v. 277; p. 389.
New York Belting and Packing Company, New York, N. Y. Rubber belting. No. 133,766; Aug. 3; v. 277; p. 175.
Newell, Carroll D., New York, N. Y. Yarn. No. 134,421; Aug. 31; v. 277; p. 973.
News Syndicate Co., Inc., New York, N. Y. Daily publication. No. 134,043; Aug. 10; v. 277; p. 389.
Nineteen Hundred Washer Company, The, Binghamton, N. Y. Clothes-washing machine. No. 133,767; Aug. 3; v. 277; p. 175.
Nonotuck Silk Company, Northampton, Mass. Yarn of worsted, mohair, wool, silk, or cotton. No. 134,422; Aug. 31; v. 277; p. 973.
Norma Chocolate Company, Brooklyn, N. Y. Chocolate. No. 134,044; Aug. 10; v. 277; p. 389.
Northam Warren Corporation, New York, N. Y. Toilet preparations. No. 134,458; Aug. 31; v. 277; p. 975.
Northern Ohio Butterine Company, The, Ashland, Ohio. Oleomargarin. No. 134,045; Aug. 10; v. 277; p. 389.
Northwestern Brewers Supply Co., Milwaukee, Wis. Malt syrup used in the preparation of non-alcoholic malt beverages. No. 133,768; Aug. 3; v. 277; p. 175.
Norwalk Tire and Rubber Company, Inc., The, Norwalk, Conn. Elastic vehicle-tires. No. 133,769; Aug. 3; v. 277; p. 175.
Nulomoline Company, The, New York, N. Y. Cereal and sugar syrups for table purposes. No. 134,046; Aug. 10; v. 277; p. 389.
Nut-Grove Butter Company, Providence, R. I. Oleomargarin. No. 134,047; Aug. 10; v. 277; p. 389.
O'Brien, Frank B., Chicago, Ill. Cementitious preparation usable in the form of a putty. No. 134,259; Aug. 24; v. 277; p. 778.
Odelsa Mfg. Co., The, Oklahoma, Okla. Foods. No. 134,260; Aug. 24; v. 277; p. 778.
Omaha Flour Mills Co., Omaha, Nebr. Wheat-flour. Nos. 134,048–9; Aug. 10; v. 277; p. 389.
Omaha Flour Mills Co., Omaha, Nebr. Wheat-flour. No. 134,423; Aug. 31; v. 277; p. 973.
Oneida Community, Limited, Oneida, N. Y. Silver-plated flat-ware and tableware. No. 134,050; Aug. 10; v. 277; p. 390.
Orange Manufacturing Company, Orange, Va. Automobile accessory. No. 134,186; Aug. 17; v. 277; p. 582.
Osborn Paper Co., Marion, Ind. Writing-tablets, mailing-envelops, papeteries, &c. No. 134,424; Aug. 31; v. 277; p. 973.
Ostrowsky, H., Co., Chicago, Ill. Clothing. No. 133,770; Aug. 3; v. 277; p. 176.
Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild. Nos. 134,052–8; Aug. 10; v. 277; p. 390.
Oversea Export Co. Ltd., The, Christiania, Norway. Sardines. No. 134,051; Aug. 10; v. 277; p. 390.
Pacific Mill and Mine Supply Company, San Francisco, Calif. Beltings, lacings, packings, and hose. No. 133,773; Aug. 3; v. 277; p. 176
Package Confectionery Company, Boston, Mass. Candy. No. 134,059; Aug. 10; v. 277; p. 390.
Page, Handley, Limited, London, England. Aeroplane packing cases and crates. No. 133,695; Aug. 3; v. 277; p. 173.
Paist, F. M., Company, Philadelphia, Pa. Nut-caramels. No. 134,060; Aug. 10; v. 277; p. 390.
Palmer Candy Co., Sioux City, Iowa. Candy. Nos. 134,061–2; Aug. 10; v. 277; p. 390.
Palmer, E. J., Chicago, Ill. Metal-polish. No. 133,774; Aug. 3; v. 277; p. 176.

Palmine Company, Inc., Dobbs Ferry and New York, N. Y. Oleomargarin. No. 134,261; Aug. 24; v. 277; p. 778.
Paskie, D. B., & Co., New York, N. Y. Coat-collars. No. 133,775; Aug. 3; v. 277; p. 176.
Patent Cereals Company, The, Geneva and New York, N. Y. Corn-flour. No. 134,262; Aug. 24; v. 277; p. 778.
Patrick, F. A., & Co., Duluth, Minn. Steam-boilers. No. 134,425; Aug. 31; v. 277; p. 973.
Patrick, F. E., Young Co., Richmond, Va. Hams, bacon, and lard. No. 134,063; Aug. 10; v. 277; p. 390.
Paxton & Gallagher Co., Omaha, Nebr. Canned fish. No. 134,263; Aug. 24; v. 277; p. 778.
Pendleton, Homer R., Tulsa, Okla. Adhesive compound for mending automobile-radiators, gasolene-tanks, &c. No. 134,264; Aug. 24; v. 277; p. 778.
Penslar Company, The, Detroit, Mich. Dentifrice. No. 133,777; Aug. 3; v. 277; p. 176.
Pep Spark Plug Company, Minneapolis, Minn. Spark-plugs. No. 133,778; Aug. 3; v. 277; p. 176.
Perkins & McNeely, Philadelphia, Pa. Side-leather. No. 134,411; Aug. 31; v. 277; p. 973.
Peska, Rudolph J., Chicago, Ill. Washing preparation. No. 134,064; Aug. 10; v. 277; p. 390.
Petri and Jones Company, Incorporated, Boston, Mass. Machinery and appliances used in the manufacture of foods, &c. No. 134,187; Aug. 17; v. 277; p. 582.
Piano Motors Corporation, Camden, N. J. Electrically-operated vacuum-creating apparatus for piano-players. No. 133,779; Aug. 3; v. 277; p. 176.
Pierce-Arrow Motor Car Company, Buffalo, N. Y. Monthly magazine. No. 134,065; Aug. 10; v. 277; p. 390.
Pioneer Overall Company, The, Paterson, N. J. Overalls. No. 133,781; Aug. 3; v. 277; p. 176.
Pitometer Company, The, New York, N. Y. Instruments for indicating, measuring, and recording the velocity of flowing streams. No. 134,265; Aug. 24; v. 277; p. 778.
Placentia Mutual Orange Association, Placentia, Calif. Citrus fruits—namely, oranges. No. 134,066; Aug. 10; v. 277; p. 390.
Platt, Bert, & Co., Wichita, Kans. Decarboniser for cylinders of automobile-engines. No. 133,782; Aug. 3; v. 277; p. 176.
Polidoro Restaurant Co., Inc., New York, N. Y. Cold meats. No. 134,266; Aug. 24; v. 277; p. 778.
Popular Canning Co. Inc., Los Angeles, Calif. Canned peaches, pears, and tomatoes. No. 134,067; Aug. 10; v. 277; p. 390.
Porterfield Baking Company, Indianapolis, Ind. Doughnuts and cookies. No. 134,426; Aug. 31; v. 277; p. 974.
Postum Cereal Company, Inc., Wilmington, Del., and Battle Creek, Mich. Corn-flour, hominy, grits, meal. No. 134,267; Aug. 24; v. 277; p. 778.
Powers, Lucius, Fresno, Calif. Citrus and fresh fruits. No. 134,268; Aug. 24; v. 277; p. 778.
Premium Metal & Packing Co., Wilkinsburg, Pa. Babbitt metals. No. 134,188; Aug. 17; v. 277; p. 582.
Priscilla Company, The, Boston, Mass. Children's clothing. No. 133,785; Aug. 3; v. 277; p. 176.
Purepakt Products Company, Washington, Ind. Foods. No. 134,068; Aug. 10; v. 277; p. 390.
Puyallup & Sumner Fruit Growers Canning Co., Puyallup, Wash. Canned and crushed fruits, fruit preserves, and jams. No. 134,269; Aug. 24; v. 277; p. 778.
Radin, Harry R., Newark, N. J. Containers and sterilisers for tooth-brushes. No. 133,786; Aug. 3; v. 277; p. 176.
Ralko Products Company, The, Dayton, Ohio. Hand fire-extinguishers. No. 134,189; Aug. 17; v. 277; p. 582.
Ralston Purina Company, St. Louis, Mo. Stock feed. No. 134,069; Aug. 10; v. 277; p. 390.
Ramsey, Porter E., Richmond, Va. Spark boosters and intensifiers. No. 133,784; Aug. 3; v. 277; p. 176.
Red "C" Oil Manufacturing Co., Baltimore, Md. Soaps. No. 133,787; Aug. 3; v. 277; p. 176.
Redel Candy Corporation, The, Milwaukee, Wis. Candy. Nos. 134,270–3; Aug. 24; v. 277; p. 779.
Reed, Chas. H., New York, N. Y. Cotton piece goods. No. 134,070; Aug. 10; v. 277; p. 390.
Reed, James W., Imperial, Calif. Citrus fruits—namely, grapefruit. No. 134,071; Aug. 10; v. 277; p. 390.
Reeve, H., Angel & Co., Inc., New York, N. Y. Filter-paper. No. 134,072; Aug. 10; v. 277; p. 390.
Regal Polishing Cloth Co., Chicago, Ill. Polishing and wiping cloth. No. 133,788; Aug. 3; v. 277; p. 176.
Reichmann & Faust, New York, N. Y. Composition hair-pins, wire hairpins, hair-fasteners, &c. No. 133,790; Aug. 3; v. 277; p. 176.
Reid Ice Cream Company, The, New York, N. Y. Ice-cream and charlotte russe. No. 134,428; Aug. 31; v. 277; p. 974.
Reid Ice Cream Company, The, New York, N. Y. Ice-cream. No. 134,429; Aug. 31; v. 277; p. 974.
Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 133,791; Aug. 3; v. 277; p. 176.
Remington Arms Company, Inc. (See Remington Arms Union Metallic Cartridge Co., assignor.)
Remington Arms Union Metallic Cartridge Co. Inc., assignor to Remington Arms Company, Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; Hoboken, N. J., and New York, N. Y. Military and sporting rifles, shotguns, pistols, &c. No. 133,792; Aug. 3; v. 277; p. 176.
Reo Motor Car Company, Lansing, Mich. Light motor-trucks. No. 134,322; Aug. 24; v. 277; p. 783.
Republic Distributing Corporation, New York, N. Y. Motion-picture films. No. 133,793; Aug. 3; v. 277; p. 176.
Reuben and Zukerman, Inc., New York, N. Y. Ladies' Waists. No. 133,794; Aug. 3; v. 277; p. 176.
Rex Paint Corporation, New York, N. Y. Ready-mixed paint, ready-mixed inside and outside enamels, colors in oil, and varnish. No. 133,795; Aug. 3; v. 277; p. 176.
Rice-Stix Dry Goods Company, St. Louis, Mo. Dresses and middy-blouses. No. 133,796; Aug. 3; v. 277; p. 106.
Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. Nos. 134,275–7; Aug. 24; v. 277; p. 779.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Non-alcoholic maltless non-cereal beverages. No. 133,797; Aug. 3; v. 277; p. 176.
Riverside Boiler Works, Inc., Cambridgeport, Mass. Tanks and tanks for hot water known as stand or range boilers. No. 133,798; Aug. 3; v. 277; p. 176.
Rivoli Silk Hosiery Co., New York, N. Y. Hosiery and underwear. No. 134,323; Aug. 24; v. 277; p. 783.
Roach, W. R., & Co., Hart, Mich. Food products. No. 133,799; Aug. 3; v. 277; p. 176.
Robin Hood Mills, Limited, Moose Jaw, Saskatchewan, Canada. Wheat-flour. No. 134,431; Aug. 31; v. 277; p. 974.
Robin, Jacob I., New York, N. Y. Gas-heaters. No. 134,432; Aug. 31; v. 277; p. 974.
Rochester Washing Machine Corp., Rochester, N. Y. Clothes-washing machines. No. 133,800; Aug. 3; v. 277; p. 176.
Rodgers Hosiery Company, Incorporated, Philadelphia, Pa. Hosiery. No. 133,801; Aug. 3; v. 277; p. 177.
Roessel, Louis, & Co., New York, N. Y. Light-weight woven silk and cotton fabrics for millinery purposes. No. 134,073; Aug. 10; v. 277; p. 390.
Rogers, S. A., Co., Newark, N. J. Scratch food for poultry, baby-chick mash, &c. No. 134,074; Aug. 10; v. 277; p. 390.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. Nos. 133,802–3; Aug. 3; v. 277; p. 177.
Rosenberg Bros., St. Louis, Mo. Woolen cloth for tailoring purposes. No. 134,075; Aug. 10; v. 277; p. 390.
Rosenblum, Samuel, Brooklyn, N. Y. Fresh onions, potatoes, turnips, and carrots. No. 134,433; Aug. 31; v. 277; p. 974.
Rosenthal, Charles, New York, N. Y. Sanitary paper drinking-cups. No. 133,804; Aug. 3; v. 277; p. 177.
Ross, George W., New York, N. Y. Ointment for the growth and darkening of the eyebrows and eyelashes. No. 134,434; Aug. 31; v. 277; p. 974.
Rowbottom, Thos., Co., New York, N. Y. Cotton and linen embroideries in the piece. No. 133,789; Aug. 3; v. 277; p. 176.
Royall Coffee Company, The, Corsicana, Tex. Coffee and tea. No. 134,076; Aug. 10; v. 277; p. 390.
Rubens, Leon F., Philadelphia, Pa. Clothing. No. 133,805; Aug. 3; v. 277; p. 177.
Ruch-Drompp Grocery Co., Logansport, Ind. Bread. No. 134,077; Aug. 10; v. 277; p. 390.
Rupert, A., Company, Inc., Portland, Oreg. Fruit preserves, jam, and canned salmon. No. 134,078; Aug. 10; v. 277; p. 390.
Rupert, A., Company, Inc., Portland, Oreg. Canned fruits, vegetables, and fish. No. 134,435; Aug. 31; v. 277; p. 974.
Russ Manufacturing Company, The, Cleveland, Ohio. Soda-fountains and soda-water carbonators. No. 134,190; Aug. 17; v. 277; p. 582.
Russell & Company, Incorporated, Cambridge, Mass. Candy. No. 134,278; Aug. 24; v. 277; p. 779.
Russell, John, Cutlery Company, Turners Falls, Mass. Pocket, table, butcher, and trade knives. Nos. 133,806–7; Aug. 3; v. 277; p. 177.
Sanchis de Quesada, José, Madrid, Spain. Olive-oil. No. 134,427; Aug. 31; v. 277; p. 974.
Sargoy Bros., Brooklyn, N. Y. Washboilers. No. 133,808; Aug. 3; v. 277; p. 177.
Schaeffer, Charles P., Reading, Pa. Shoe-laces. No. 133,809; Aug. 3; v. 277; p. 177.
Schlup, Samuel, Cambridge, Ohio. Ointment for la-grippe, colds, inflammation, and congestion. No. 133,810; Aug. 3; v. 277; p. 177.
Schmid, Julius, Incorporated, New York, N. Y. Skins for stoppered bottles, Capping-. No. 134,437; Aug. 31; v. 277; p. 974.
Schreiber Milling & Grain Co., St. Joseph, Mo. Hog and cattle feed. No. 134,081; Aug. 10; v. 277; p. 390.
Schuler Chocolate Factory, Inc., Winona, Minn. Candy. No. 134,082; Aug. 10; v. 277; p. 390.
Schwartz, Max A., New York, N. Y. Rubber tires. No. 133,811; Aug. 3; v. 277; p. 177.
Scott, Lester C., San Diego, Calif. Lubricating-oils for guns, locks, bicycles, &c. No. 134,080; Aug. 10; v. 277; p. 390.
Sealright Company, Inc., Fulton, N. Y. Receptacles. No. 133,812; Aug. 3; v. 277; p. 177.
Seandrett, Leslie A., Sydney, New South Wales, Australia. Rabbit-meat. No. 134,079; Aug. 10; v. 277; p. 390.
Searle, Robinson P., Toledo, Ohio. Lubricating oils and greases. Nos. 133,813–14; Aug. 3; v. 277; p. 177.

Seggerman Bros. Inc., New York, N. Y. Chocolate packed boxes and packages. No. 134,084; Aug. 10; v. 277; p. 391.

Seggerman Bros. Inc., New York, N. Y. Dried fruits packed in boxes and barrels. No. 134,083; Aug. 10; v. 277; p. 391.

Seidel, William B., Reading, Pa. Hosiery for men and women. No. 133,815; Aug. 3; v. 277; p. 177.

Selby, John A., Camden, N. J. Liquid polish for pianos, furniture, and other painted or varnished surfaces. No. 133,817; Aug. 3; v. 277; p. 177.

Selby, John A., Camden, N. J. Powder for cleaning white shoes and clothing. No. 133,816; Aug. 3; v. 277; p. 177.

Shapiro Bros. & Mirsky, Los Angeles, Calif. Ladies' waists for outer wear. No. 133,818; Aug. 3; v. 277; p. 177.

Shaw Family, Inc., The, San Jose, Calif. Canned fruits, jams, preserves. Nos. 134,085–6; Aug. 10; v. 277; p. 391.

Sheehan, Edgar M., San Francisco, Calif. Fresh vegetables—namely, asparagus—and fresh fruits—namely, pears. No. 134,087; Aug. 10; v. 277; p. 391.

Sheer, Henry M., Quincy, Ill. Oil burners and heaters. No. 134,438; Aug. 31; v. 277; p. 974.

Shoninger, B., Co., New Haven, Conn. Pianos. No. 134,088; Aug. 10; v. 277; p. 391.

Sidel-Rattner Manufacturing Company, Brooklyn, N. Y. Automatic-tire pumps and grease guns. No. 133,819; Aug. 3; v. 277; p. 177.

Simmons Hardware Company, St. Louis, Mo. Golf-clubs, fishing-rods, reels, minnow seines and nets, caddy-bags. No. 133,821; Aug. 3; v. 277; p. 177.

Simmons Hardware Company, St. Louis, Mo. Razor-blades. No. 133,820; Aug. 3; v. 277; p. 177.

Simmons Hardware Company, St. Louis, Mo. Safety-razor blades. No. 134,191; Aug. 17; v. 277; p. 582.

Simpson, W., Sons & Co., Philadelphia, Pa. Cotton piece goods. No. 133,822; Aug. 3; v. 277; p. 177.

Sinclair Refining Company, Chicago, Ill. Gasolenes. No. 134,089; Aug. 10; v. 277; p. 391.

Single, John, Syracuse, N. Y. Paper bags. Nos. 133,823–4; Aug. 3; v. 277; p. 177.

Sioux Candy Company, Sioux City, Iowa. Confectionery. No. 134,090; Aug. 10; v. 277; p. 391.

Smith & Nichols, New York, N. Y., and Boston, Mass. Electrical insulating waxes. No. 134,091; Aug. 10; v. 277; p. 391.

"Snaplok," Inc., New York, N. Y. Snap-fasteners. No. 133,825; Aug. 3; v. 277; p. 177.

Societe des Moteurs Gnome et Rhone, Paris, France. Internal-combustion aviation-motors and engines. No. 134,192; Aug. 17; v. 277; p. 582.

So-Lite Company, The. (See The Kelley-Robinson Corporation, assignor.)

Sowell, E. E., Sacramento, Calif. Plows. No. 133,826; Aug. 3; v. 277; p. 177.

Southwest Flour & Feed Company, Glendale, Ariz. Field-seeds. No. 134,439; Aug. 31; v. 277; p. 974.

"Spearmint" Co., The, Stillwater, Minn. Non-alcoholic non-intoxicating maltless non-cereal syrup. No. 133,827; Aug. 3; v. 277; p. 177.

Sproehnle, Albert W., Chicago, Ill. Watches. No. 134,324; Aug. 24; v. 277; p. 783.

St. Albans Grain Company, St. Albans, Vt. Stock feed. No. 134,283; Aug. 24; v. 277; p. 779.

St. Albans Grain Company, St. Albans, Vt. Dairy feed. No. 134,284; Aug. 24; v. 277; p. 779.

St. Louis Beverage Company, St. Louis, Mo. Non-alcoholic non-intoxicating beverage. No. 134,441; Aug. 31; v. 277; p. 974.

St. Louis Brass Mfg. Co., St. Louis, Mo. Electric-lighting fixtures. Nos. 133,839–40; Aug. 3; v. 277; p. 178.

San Jose Canning Co., San Jose, Calif. Canned vegetables and fruits. Nos. 134,279–80; Aug. 24; v. 277; p. 779.

Sessions, William, York, England. Envelop-sealing slips and adhesive paper seals. No. 134,281; Aug. 24; v. 277; p. 779.

Simlec Film Company, Pittsburgh, Pa. Motion-picture films. No. 134,282; Aug. 24; v. 277; p. 779.

Standard Accessory Corporation, Milwaukee, Wis. Electrical-lighting attachments for sound-reproducing machines. No. 133,829; Aug. 3; v. 277; p. 177.

Standard Gas Engine Co., Oakland, Calif. Marine and stationary gas-engines and hoists for same. No. 134,193; Aug. 17; v. 277; p. 582.

Stanwood Motor Car Company, St. Louis, Mo. Automobiles and motor-trucks. No. 134,440; Aug. 31; v. 277; p. 974.

Starlight, Max E., New York, N. Y. Cigars and cheroots. Nos. 133,830–3; Aug. 3; v. 277; p. 177.

Stephens-Adamson Manufacturing Co., Aurora, Ill. Roller-brackets for belt conveyers. No. 134,194; Aug. 17; v. 277; p. 582.

Stern Milling Company, Inc., Milwaukee, Wis. Rye-flour. No. 134,092; Aug. 10; v. 277; p. 391.

Stewart, Francis G., Chicago, Ill. Polish for aluminum. No. 134,093; Aug. 10; v. 277; p. 391.

Stewart, Francis G., Chicago, Ill. Polish for silver, gold, and nickel. No. 134,094; Aug. 10; v. 277; p. 391.

Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-feeding systems for internal-combustion engines. No. 133,834; Aug. 3; v. 277; p. 177.

Stilling-Andersen, B., Inc., New York, N. Y. Butter. No. 134,095; Aug. 10; v. 277; p. 391.

Stowell Gribble Chemical Company, Savannah, Ga. Wax automobile-polish. No. 134,325; Aug. 24; v. 277; p. 783.

Strand, N. A., & Company, Chicago, Ill. Flexible shafting. No. 133,835; Aug. 3; v. 277; p. 178.

Straus, Royer & Strauss, Inc, Baltimore, Md. Middy-blouses. No. 133,836; Aug. 3; v. 277; p. 178.

Straus, Moses, San Francisco, Calif. Self-vulcanising patches. No. 133,837; Aug. 3; v. 277; p. 178.

Stripes Citrus Packing Co., Fort Myers, Fla. Citrus fruits—namely, oranges, grape-fruit, lemons, &c. No. 134,442; Aug. 31; v. 277; p. 974.

Strype, Fred C., New York, N. Y. Wrapping and printing papers. No. 134,096; Aug. 10; v. 277; p. 391.

Stuart, D. A., & Co., Chicago, Ill. Cutting-oils. No. 134,443; Aug. 31; v. 277; p. 974.

Stuart, Ormi, Liverpool, England. Ash and coal bags. No. 133,838; Aug. 3; v. 277; p. 178.

Suchard, S. A., Serrieres, Switzerland. Chocolate. No. 134,285; Aug. 24; v. 277; p. 779.

Sullivan Machinery Company, Boston, Mass. Machinery. No. 134,326; Aug. 24; v. 277; p. 783.

Summer, Henry H., Jackson, Tenn. Non-alcoholic, non-cereal, maltless beverages, and flavors for same. No. 133,841; Aug. 3; v. 277; p. 178.

Superior Builders Supply Co., Little Rock, Ark. Roll composition roofing and shingles. No. 134,097; Aug. 10; v. 277; p. 391.

Sutton, Henry C., Rising Star, Tex. Washing-powder. No. 133,842; Aug. 3; v. 277; p. 178.

Swanson Bros., Chicago, Ill. Coffee. No. 133,843; Aug. 3; v. 277; p. 178.

Sweet Candy Co., Salt Lake City, Utah. Candy. No. 134,444; Aug. 31; v. 277; p. 974.

Talbert-Whitmore Company, Los Angeles, Calif. Paper window-shades. No. 133,845; Aug. 3; v. 277; p. 178.

Tanner-Gross, W. P., & Company, New York, N. Y. Wheat and rye flour. Nos. 134,099–102; Aug. 10; v. 277; p. 391.

Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour, cornmeal, and rolled oats. No. 134,286; Aug. 24; v. 277; p. 779.

Taylor, Isaac H., Atlanta, Ga. Liver-pills. No. 133,846; Aug. 3; v. 277; p. 178.

Tennessee Coal, Iron & Railroad Company, Birmingham, Ala. Plain, corrugated, round, square, and flat iron and steel. No. 134,195; Aug. 17; v. 277; p. 582.

Tewksbury, J. Winthrop, New York, N. Y. Electrical heaters for air. No. 133,874; Aug. 3; v. 277; p. 179.

Thacker, D. W., Springfield, Ohio. Coffee. No. 134,287; Aug. 24; v. 277; p. 779.

Thayer, Henry, & Co. Inc., Cambridge, Mass. Liniment for use in certain named ailments. No. 133,847; Aug. 3; v. 277; p. 178.

Thompson, John R., Co., Chicago, Ill. Bread. No. 134,103; Aug. 10; v. 277; p. 391.

Thompson, John R., Co., Chicago, Ill. Crab-apple jelly, plum jam, canned corn, catsup, &c. No. 134,288; Aug. 24; v. 277; p. 779.

Thompson, John R., Co., Chicago, Ill. Coffee. No. 134,445; Aug. 31; v. 277; p. 974.

Tiffany & Company, New York, N. Y. Cutlery and dies for engraving, stamping or embossing stationery. No. 134,196; Aug. 17; v. 277; p. 582.

Tiffany & Company, New York, N. Y. Measuring and scientific appliances. Nos. 134,289–90; Aug. 24; v. 277; p. 779.

Tiffany & Company, New York, N. Y. Medals of base metals and art-bronzes, etched or engraved metal plates. Nos. 134,446–7; Aug. 31; v. 277; p. 974.

Tiffany and Company, New York, N. Y. Table-glassware. Nos. 134,448–9; Aug. 31; v. 277; p. 974.

Tiffany and Company, New York, N. Y. Non-electric lamps candlesticks, and candelabra. Nos. 134,450–1; Aug. 31; v. 277; p. 974.

Tiffany Never Wind Clock Corporation, Buffalo, N. Y. Electric clocks and parts thereof. No. 134,327; Aug. 24; v. 277; p. 783.

Tilley, B. F., Jr., Mrs., Jamestown, R. I. Candies, glacé nuts, barley toys. No. 134,291; Aug. 24; v. 277; p. 779.

Tobacco Products Export Corporation, New York, N. Y. Cigarettes. No. 133,844; Aug. 3; v. 277; p. 178.

Tomlinson, W. H., & Co., Bay City, Mich. Leather shoes. No. 133,849; Aug. 3; v. 277; p. 178.

Torres y Ribelles, Seville, Spain. Olive-oil and other edible oils. No. 134,274; Aug. 24; v. 277; p. 779.

Traub Manufacturing Company, The, Detroit, Mich. Jewelry. No. 134,105; Aug. 10; v. 277; p. 391.

Traver, F. C., Paper Co., The, Chicago, Ill. Paper and paper products. No. 134,104; Aug. 10; v. 277; p. 391.

Treefilm Company, Inc., New York, N. Y. Cinematographic films. No. 134,197; Aug. 17; v. 277; p. 582.

Tropica Corporation, The, New York, N. Y. Sugar. No. 134,106; Aug. 10; v. 277; p. 391.

Trumper, Max, Montgomery, Ala. Pure culture of nitrogen-gathering bacteria for inoculating seeds prior to sowing. No. 134,452; Aug. 31; v. 277; p. 974.

Tubular Woven Fabric Company, Pawtucket, R. I. Electric portable cables. No. 134,107; Aug. 10; v. 277; p. 391.

Tubular Woven Fabric Company, Pawtucket, R. I. Insulated-wire conductors. No. 134,108; Aug. 10; v. 277; p. 391.

Uncas Manufacturing Company, Providence, R. I. Finger-rings, pins, and bracelets. No. 134,110; Aug. 10; v. 275; p. 391.

Underdown, Americus R., Haddonfield, N. J. Clothing. No. 133,851; Aug. 3; v. 277; p. 178.

Underwood, William, Company, Boston, Mass. Canned sardines. No. 134,453; Aug. 31; v. 277; p. 974.

United American Metals Corporation, Brooklyn, N. Y. Non-ferrous alloys. No. 134,454; Aug. 31; v. 277; p. 974.

United Drug Company, Boston, Mass. Candy. No. 133,853; Aug. 3; v. 277; p. 178.

United Drug and Candy Manufacturing Company, The, Cleveland, Ohio. Chocolate candy. No. 134,114; Aug. 10; v. 277; p. 391.

United Drug Company, Boston, Mass. Infants' foods, condensed milk, sugar of milk, and malted milk. No. 134,113; Aug. 10; v. 277; p. 391.

United Drug Company, Boston, Mass. Liquid chemical preparation for polishing silverware. No. 134,111; Aug. 10; v. 277; p. 391.

United Drug Company, Boston, Mass. Toilet sets containing puff, comb, brush, nail-file, scissors, &c. No. 134,112; Aug. 10; v. 277; p. 391.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Floor-covering made of rubber compound. No. 133,856; Aug. 3; v. 277; p. 178.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Jar-rings. No. 133,857; Aug. 3; v. 277; p. 178.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Hose made of fabric and rubber. No. 133,858; Aug. 3; v. 277; p. 178.

United Stay Company, Cambridge, Mass. Bindings, pipings, facings, and trimmings of leather for use in the manufacture of shoes. No. 133,855; Aug. 3; v. 277; p. 178.

United Stay Company, Cambridge, Mass. Stays, straps, &c., for use in the manufacture of harness, trunks, and bags. No. 133,854; Aug. 3; v. 277; p. 178.

United Wholesale Grocery Co., Los Angeles, Calif. Foods. No. 134,115; Aug. 10; v. 277; p. 391.

Universal Beverage Company, St. Louis, Mo. Carbonated soda-water. No. 133,852; Aug. 3; v. 277; p. 178.

Urbany, Urban, San Diego, Calif. Chilli food composed of meat, pepper, and flour. No. 134,109; Aug. 10; v. 277; p. 391.

Vermont Maple Syrup Company, Inc., Essex Junction, Vt. Maple table-syrup. No. 133,859; Aug. 3; v. 277; p. 178.

Vermont Maple Syrup Company, Inc., Essex Junction, Vt. Blended cane and maple table-syrup. No. 134,116; Aug. 10; v. 277; p. 391.

Victor Water Motor Corporation, New York, N. Y. Water-motors. No. 133,860; Aug. 3; v. 277; p. 178.

Victory Bag & Paper Co., Chicago, Ill. Paper bags. No. 133,861; Aug. 3; v. 277; p. 178.

Vitanola Talking Machine Co., Chicago, Ill. Talking-machines. No. 134,117; Aug. 10; v. 277; p. 392.

Vollrath, Jacob J., M'f'g Co., The, Sheboygan, Wis. Steel enameled ware. No. 134,198; Aug. 17; v. 277; p. 582.

Waldes & Co., Prague, Bohemia. Fancy goods, furnishings, and notions. No. 133,863; Aug. 3; v. 277; p. 178.

Waldes & Co., Prague, Bohemia. Placket, glove, and snap-fasteners, buttons, clasps. No. 133,862; Aug. 3; v. 277; p. 178.

Waldes & Co., Inc., Long Island City, N. Y. Snap-fasteners. No. 134,455; Aug. 31; v. 277; p. 974.

Wales Adding Machine Company, Kingston borough, Pa. Adding, listing, and calculating machines. No. 134,199; Aug. 17; v. 277; p. 282.

Wales, Estate of George E., Newton Center, Mass. Jellies, jam, and fruit preserves. No. 134,456; Aug. 31; v. 277; p. 974.

Walker, R., & Sons, Limited, Leicester, England. Clothing. No. 133,864; Aug. 3; v. 277; p. 178.

Wallace & Co., Brooklyn, N. Y. Chocolates and candies. Nos. 134,328–9; Aug. 24; v. 277; pp. 783–4.

Ward Baking Company, New York, N. Y. Bread. Nos. 134,118–19; Aug. 10; v. 277; p. 392.

Ward Baking Company, New York, N. Y. Bread. No. 134,292; Aug. 24; v. 277; p. 779.

Wards', Edgar T., Sons Co., Boston, Mass. Tool-steel. No. 134,203; Aug. 17; v. 277; p. 582.

Wardwell Braiding Machine Company, Central Falls, R. I. Braiding-machines and parts thereof. No. 134,200; Aug. 17; v. 277; p. 582.

Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 134,457; Aug. 31; v. 277; p. 974.

Warren Tool and Forge Company, The, Warren, Ohio. Tools. No. 134,201; Aug. 17; v. 277; p. 582.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. Nos. 133,943–4; Aug. 10; v. 277; p. 886.

Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour. Nos. 134,293–7; Aug. 24; v. 277; p. 779.

Waterproofing Manufacturing Co., The, Scranton, Pa. Auto-top dye and dressing in the nature of a preservative. No. 134,120; Aug. 10; v. 277; p. 392.

Watkins, John R., Norfolk, Va. Hair-tonic and toilet deodorant. No. 133,880; Aug. 3; v. 277; p. 179.

Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Sweater-coats. No. 133,865; Aug. 3; v. 277; p. 178.

Watts, Stebbins & Co., New York, N. Y. Cotton piece goods. No. 134,459; Aug. 31; v. 277; p. 975.

Weber, Jacob H., Brooklyn, N. Y. Talking-machines. No. 134,121; Aug. 10; v. 277; p. 392.

Weil, Maximilian, New York, N. Y. Devices for transmitting communication into transmitter of telephone sets. No. 134,122; Aug. 10; v. 277; p. 392.

Weinhard, Henry, Estate, Portland, Oreg. Non-intoxicating malt beverage. No. 133,866; Aug. 3; v. 277; p. 178.

Weinthrop Company, The, Chicago, Ill. Games. No. 133,867; Aug. 3; v. 277; p. 179.

Welisch, W. T., & Co., Inc., San Francisco, Calif. Rice. Nos. 134,460–2; Aug. 31; v. 277; p. 975.

Wenzelmann, Gustave, Galesburg, Ill. Clothes-washing machines, clothes-wringers, and combinations and parts of same. No. 133,868; Aug. 3; v. 277; p. 179.

West Coast Soap Co., Oakland, Calif. Laundry soap. No. 134,123; Aug. 10; v. 277; p. 392.

West Virginia Malleable Iron Co., Point Pleasant, W. Va. Malleable-iron castings. No. 134,204; Aug. 17; v. 277; p. 582.

Western Feed Manufacturers Inc., Chicago, Ill. Horse feed. Nos. 134,125–6; Aug. 10; v. 277; p. 392.

Western Feed Manufacturers Inc., Chicago, Ill. Rabbit feed. No. 134,127; Aug. 10; v. 277; p. 392.

Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. No. 134,124; Aug. 10; v. 277; p. 392.

Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. No. 134,128; Aug. 10; v. 277; p. 392.

Western Feed Manufacturers, Inc., Chicago, Ill. Stock feed. No. 134,129; Aug. 10; v. 277; p. 392.

Western Wheeled Scraper Company, Aurora, Ill. Vehicles. No. 133,869; Aug. 3; v. 277; p. 179.

Westmoreland Candy Co., Inc., Richmond, Va. Candy. No. 134,298; Aug. 24; v. 277; p. 779.

Whitaker Paper Company, The, Cincinnati, Ohio. Cover-paper. No. 134,130; Aug. 10; v. 277; p. 392.

White, Bert L., Company, Chicago, Ill. Advertising-cards. No. 134,131; Aug. 10; v. 277; p. 392.

White, Bert L., Company, Chicago, Ill. Advertising-folders. Nos. 134,132–3; Aug. 10; v. 277; p. 392.

White Star Canning Co., East San Pedro, Calif. Canned tuna fish. No. 133,870; Aug. 3; v. 277; p. 179.

White-Valentine Company, Urbana, Ohio. Brooms. No. 133,871; Aug. 3; v. 277; p. 179.

Whiting Paper Company, Holyoke, Mass. Bristol-board. No. 134,134; Aug. 10; v. 277; p. 392.

Whiting Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 134,135; Aug. 10; v. 277; p. 392.

Whittemore Brothers Corporation, Cambridge, Mass. Dressing to be used on leather and leather articles. No. 134,136; Aug. 10; v. 277; p. 392.

Wichita Mill & Elevator Company, Wichita Falls, Tex. Wheat-flour. Nos. 134,137–8; Aug. 10; v. 277; p. 392.

Wiener, Henry, New York, N. Y. Certain named articles mounted in precious metals. No. 133,872; Aug. 3; v. 277; p. 179.

Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Pulleys. No. 134,202; Aug. 17; v. 277; p. 582.

Williams, R. C., & Company, New York, N. Y. Salad-dressing. No. 134,139; Aug. 10; v. 277; p. 392.

Wilmarth and Rice, Scranton, Pa. Wheat-flour. No. 134,140; Aug. 10; v. 277; p. 392.

Wilson, Clarence, Dinuba, Calif. Fresh fruits. No. 134,299; Aug. 24; v. 277; p. 779.

Wilson, Edward, St. Louis, Mo, Piston-rings. No. 133,875; Aug. 3; v. 277; p. 179.

Wiltsey, Charles E., East Orange, N. J. Filter for smoking-pipes. No. 133,876; Aug. 3; v. 277; p. 179.

Winchester Repeating Arms Co., New Haven, Conn. Dry-cell battaries. No. 133,878; Aug. 3; v. 277; p. 179.

Wirthlin-Mann Co., The, Cincinnati, Ohio. Monthly publication. No. 134,463; Aug. 31; v. 277; p. 975.

Witt, Florence J., Columbus, Ohio. Paste for shoe-dressing. No. 134,141; Aug. 10; v. 277; p. 392.

134,143–4; Aug. 10; v. 277; p. 392.

Wittmann, Joseph H., Kansas City, Mo. Tents. No. 134,464; Aug. 31; v. 277; p. 975.

Wonder-Nut Food Products Company, Jefferson, Wis. Oleomargarin. Nos. 134,465–7; Aug. 31; v. 277; p. 975.

Wood, John, Mfg. Co., Conshohocken, Pa. Range-boilers, expansion-tanks, &c. No. 134,330; Aug. 24; v. 277; p. 784.

Woodill, Alfred L., Riverside, Calif. Fresh oranges. Nos.

Woodtite Laboratories, The, Modesto, Calif. Compounded auto-wash used as a cleanser. No. 134,145; Aug. 10; v. 277; p. 392.

Woolley, Daniel P., Great Neck and New York, N. Y. Bread. No. 134,300; Aug. 24; v. 277; p. 779.

Woolley, Daniel P., New York, N. Y. Bread. Nos. 134,468–9; Aug. 31; v. 277; p. 975.

Woolson Spice Company, The, Toledo, Ohio. Coffee. No. 134,301; Aug. 24; v. 277; p. 779.

Woldert Peanut Products Co., Tyler, Tex. Peanut-butter. No. 134,142; Aug. 10; v. 277; p. 392.

Worden, W. H., Company, San Francisco, Calif. Drag saws. No. 134,205; Aug. 17; v. 277; p. 582.

Worsnop, Charles H., Halifax, England. Chemical preparation used as an electrolyte in electrical accumulators. No. 133,877; Aug. 3; v. 277; p. 179.

Worsnop, Charles H., Halifax, England. Electrical accumulators. No. 133,878; Aug. 3; v. 277; p. 179.

Wortendyke Manufacturing Company, Richmond, Va. Paper bags. No. 133,879; Aug. 3; v. 277; p. 179.

Wyman Partridge & Co., Minneapolis, Minn. Men's knit underwear and sweaters. No. 133,882; Aug. 3; v. 277; p. 179.

Wyckoff Drawn Steel Co., Pittsburgh, Pa. Cold-drawn steel. No. 134,206; Aug. 17; v. 277; p. 582.

Wyman Partridge & Co., Minneapolis, Minn. Men's and boys' overcoats. No. 133,881; Aug. 3; v. 277; p. 179.

Wynne Paper Co., The, New York, N. Y. Writing-tablets, writing-papers, and correspondence-envelops. No. 134,146; Aug. 10; v. 277; p. 392.

Young and Klots, New York, N. Y. Varnish, ready-mixed paints, roofing-paints, enamels, and lacquers. No. 133,883; Aug. 3; v. 277; p. 179.

Zellerbach Paper Company, San Francisco, Calif. Twine. No. 133,884; Aug. 3; v. 277; p. 179.

Zimmern, Henry, & Company, Inc., New York, N. Y. Watch and clock parts. No. 134,147; Aug. 10; v. 277; p. 392.

Zinsser, Wm., & Co., Inc., New York, N. Y. Bleached gum-shellac. No. 134,470; Aug. 31; v. 277; p. 975.

Zofsak, John J., Greensburg, Pa. Hair-grower. No. 133,885; Aug. 3; v. 277; p. 179.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allaire, Woodward & Co., Peoria, Ill. "Helox-Antiseptic Healing Powder Veterinary." (For Antiseptic Healing-Powder.) No. 21,926; Aug. 3; v. 277; p. 180.

Allen Corporation, The, New York, N. Y. "Pronto." (For Fire-Extinguishing Compound.) No. 21,983; Aug. 24; v. 277; p. 785.

American-Mexican Packing Company, Wilmington, Calif. "Surety." (For Canned Sardines.) No. 22,041; Aug. 31; v. 277; p. 977.

American Novelty Works, Herndon, Pa. "Star Building Blocks." (For Building-Blocks.) No. 21,964; Aug. 17; v. 277; p. 583.

American Soap Company, Oakland, Calif. "Jazz Hand Wash." (For Hand-Soap or Hand-Wash.) No. 21,984; Aug. 24; v. 277; p. 785.

B & G Wire Products Co., Philadelphia, Pa. "B & G Manufacturers & Distributors Wire and Sheet Products." (For Metal Wire and Sheet-Metal Products.) No. 22,042; Aug. 31; v. 277; p. 977.

Baker, Henry A., Puyallup, Wash. "Dewkist." (For Strawberries.) No. 21,927; Aug. 3; v. 277; p. 180.

Barna, Peter, New York, N. Y. "Princess Mackerel." (For Canned, Cooked, and Seasoned Mackerel.) No. 21,928; Aug. 3; v. 277; p. 180.

Baxter Candy Company, The, Grand Junction, Colo. "Prize Dominoes Pop Corn Confection." (For a Pop-Corn Confection.) No. 21,985; Aug. 24; v. 277; p. 785.

Bear Brothers Co., Chicago, Ill. "Bears' Fluff Powder." (For Fluff-Powder.) No. 21,957; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Lime Drops." (For Candies.) No. 21,929; Aug. 3; v. 277; p. 180.

Beech-Nut Packing Company, Canajoharie, N. Y. "Lime Drops." (For Candy.) No. 21,958; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Lemon Drops." (For Candy.) No. 21,959; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Cinnamons." (For Candies.) No. 21,960; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Peanut Bar." (For Candies—Namely, "Peanut Bars.") No. 21,986; Aug. 24; v. 277; p. 785.

Bo-Kay Perfume Company, New York, N. Y., and Jacksonville, Fla. "Queen of Talcums." (For Talcum Powders.) No. 21,930; Aug. 3; v. 277; p. 180.

Boston Thread Co., New York, N. Y. "Spicefield." (For Cotton Thread.) No. 21,987; Aug. 24; v. 277; p. 785.

Boston Thread Co., New York, N. Y. "Iris." (For Cotton Thread.) No. 21,988; Aug. 24; v. 277; p. 785.

Boston Thread Co., New York, N. Y. "Neutral." (For Cotton Thread.) No. 21,989; Aug. 24; v. 277; p. 785.

Boyle, Michael H., Detroit, Mich. "O. B. C. Compound." (For a Foot Antiseptic Compound.) No. 21,965; Aug. 17; v. 277; p. 583.

Brachvogel, R. A., Chicago, Ill. "Wild Hy-Ball." (For Non-Intoxicating Beverages.) No. 21,990; Aug. 24; v. 277; p. 785.

Bradford, Albert S., Placentia, Calif. "Tesoro Rancho Red Label." (For Citrus Fruits.) No. 21,966; Aug. 17; v. 277; p. 583.

Bradford, Albert S., Placentia, Calif. "Tesoro Rancho Fancy." (For Citrus Fruits.) No. 21,967; Aug. 17; v. 277; p. 583.

Brown, Alfred J., Seed Company, Grand Rapids, Mich. "Sweet Corn." (For Seed-Corn.) No. 21,931; Aug. 3; v. 277; p. 180.

Brown, Alfred J., Seed Company, Grand Rapids, Mich. "Radish." (For Radish-Seeds.) No. 21,961; Aug. 10; v. 277; p. 393.

Brown, Anthony, Philadelphia, Pa. "Brown's Indian Root Hair Tonic." (For a Liquid Hair-Tonic.) No. 22,043; Aug. 31; v. 277; p. 977.

Buhr, Pfaff & Co., Cincinnati, Ohio. "Reel." (For Chocolate Cream Drops.) No. 22,044; Aug. 31; v. 277; p. 977.

Burgess Battery Company, Madison, Wis. Burgess Uniplex Battery. (For Electric Batteries.) No. 21,932; Aug. 3; v. 277; p. 180.

Burgess Battery Company, Madison, Wis. "Burgess Unicels." (For Electric Batteries.) No. 22,045; Aug. 31; v. 277; p. 977.

Cairo Food Products Company, Cairo, Ill. "Goodest-Ever." (For Soda-Water.) No. 21,933; Aug. 3; v. 277; p. 180.

Cairo Food Products Company, Cairo, Ill. "Goodest-Ever." (For Ice-Cream.) No. 21,934; Aug. 3; v. 277; p. 180.

Candy Craft Shops, Inc., The, Chicago, Ill. "Candy Craft Candies For Kiddies." (For Candies.) No. 22,046; Aug. 31; v. 277; p. 977.

Candy Craft Shops, Inc., The, Chicago, Ill. "Candy Craft Pocket Candies." (For Fruit Tablets.) No. 22,047; Aug. 31; v. 277; p. 977.

Candy Craft Shops, Inc., The, Chicago, Ill. "Taffy On The Broomstick." (For Taffy.) No. 22,048; Aug. 31; v. 277; p. 977.

Campfire Company, The, Milwaukee, Wis. "Campfire." (For Marshmallows.) No. 22,049; Aug. 31; v. 277; p. 977.

Caramella, Santo, Ridgewood, N. J. "S C Ready Sauce." (For a Gravy.) No. 21,963; Aug. 10; v. 277; p. 393.

Caswell, George W., Co., San Francisco, Calif. "The Caswell Blend." (For Coffee.) No. 21,991; Aug. 24; v. 277; p. 785.

Cherry Tone Medicine Co., Inc., The, Charlotte, N. C. "Cherry Tonic." (For a System-Tonic.) No. 21,993; Aug. 24; v. 277; p. 785.

Clarke, J. Q., Tank Co., Crawfordsville, Ind. "Worlds Best Cafeteria Feeder." (For Live-Stock Feeders and Drinking-Fountains.) No. 21,968; Aug. 17; v. 277; p. 583.

Clem Lumber Co., Dallas, Tex. "Clem's Pure Paints." (For Ready-Mixed Paints.) No. 21,992; Aug. 24; v. 277; p. 785.

Coffee Products Company, Cleveland, Ohio. "Romar." (For Coffee.) No. 21,994; Aug. 24; v. 277; p. 785.

Colker, Abraham, Newport, Ky. Milo Fruit Chewing Gum." (For Chewing-Gum.) No. 21,935; Aug. 3; v. 277; p. 180.

Constantine Tobacco Corporation, New York, N. Y. "Riverside Virginia." (For Cigarettes.) No. 22,051; Aug. 31; v. 277; p. 977.

Constantine Tobacco Corporation, New York, N. Y. "Marathon." (For Cigarettes.) No. 22,052; Aug. 31; v. 277; p. 977.

Cosmic Products Corporation, New York, N. Y. "Cosmic". (For Cooked Vegetables—Namely, Vegetarian Beans.) No. 22,053; Aug. 31; v. 277; p. 977.)

Dechant, William H., Toledo, Ohio. "A Ruler." (For Insect-Destroyer.) No. 22,054; Aug. 31; v. 277; p. 977.

Drackett, P. W., and Sons Company, The, Cincinnati, Ohio. "Kee-Ko." (For a Washing Preparation.) No. 21,936; Aug. 3; v. 277; p. 180.

Elasticap Company, The, Hoboken, N. Y. "Elasticap." (For Splice Insulators for Electric Conductors.) No. 21,995; Aug. 24; v. 277; p. 785.

Embee Distributing Company, New York, N. Y. "Bringing Up Father Game." (For a Game-Board.) No. 22,055; Aug. 31; v. 277; p. 977.

Evans, H., Waco, Tex. "A Little Goes a Long Way." (For Preparation for Treatment of the Hair.) No. 21,996; Aug. 24; v. 277; p. 785.

F & F Manufacturing Co., Boston, Mass. "Rayn-Sno." (For a Chemically-Treated Fabric for Cleaning Windshields.) No. 22,056; Aug. 31; v. 277; p. 977.

Fagan, Hosea B., Burlington, Iowa. "Crescent." (For Malt Products.) No. 21,969; Aug. 17; v. 277; p. 583.

Fine & Levy, New York, N. Y. "All-Size-Cap." (For Cloth Caps.) No. 21,997; Aug. 24; v. 277; p. 785.

Flossmint Company, The, Spokane, Wash. "Flossies." (For Candy Lozenges.) No. 22,057; Aug. 31; v. 277; p. 977.

Fox Candy Company, Oakland, Calif. "Lil Joe." (For Candies.) No. 21,938; Aug. 3; v. 277; p. 180.

Fox, Frank M., & Co., Saegerstown, Pa. "Ginger Ale." (For Ginger-Ale.) No. 21,998; Aug. 24; v. 277; p. 785.

Fox, Frank M., & Co., Saegerstown, Pa. "Fox Trot Carbonated Laxative." (For Carbonated Laxative.) No. 21,999; Aug. 24; v. 277; p. 785.

Fox, Walter M., Napoleon, Ohio. "Tandem Team." (For Cigars.) No. 22,058; Aug. 31; v. 277; p. 977.

Garden City Oil Co., Chicago, Ill. "Garden City Moto Oils." (For Lubricating Oils.) No. 22,000; Aug. 24; v. 277; p. 785.

Gebl, John P., South Germantown, Wis. "Mejo, a Compound of fresh skimmed Milk and Cocoanut Oil." (For a Compound of Milk and Vegetable Oil.) No. 21,970; Aug. 17; v. 277; p. 583.

Gelles & Weissman, New York, N. Y. "Good Will Cravats." (For Cravats.) No. 22,001; Aug. 24; v. 277; p. 785.

General Asbestos & Rubber Company, Charleston, S. C. "Garco Gaskette Roll." (For Asbestos Sheet-Packing.) No. 22,059; Aug. 31; v. 277; p. 977.

Glass, Fredrick, Detroit, Mich. "Ethel-Olds Antiseptics." (For an Antiseptic.) No. 22,060; Aug. 31; v. 277; p. 977.

Grain Soaps Corporation, Dover, Del. "Grainо." (For Soaps.) No. 22,002; Aug. 24; v. 277; p. 785.

Graphic Label Works, Chicago, Ill. "Lauritsen's Home Made Butter Scotch." (For Butter-Scotch.) No. 22,003; Aug. 24; v. 277; p. 785.

Grennan Cake Corporation, Chicago, Ill. "Every Bite a Delight." (For Fried Cakes and Cookies.) No. 22,004; Aug. 24; v. 277; p. 785.

Gust Chilliras & Co., Canton, Ohio. "Liberty Coffee." (For Coffee.) No. 22,050; Aug. 31; v. 277; p. 977.

Hedges-Buck Company, Stockton, Calif. "Hedges-Buck Co. Brand." (For Black Pepper.) No. 22,005; Aug. 24; v. 277; p. 785.

Heilman, Frederick, Company, Johnstown, Pa. "Man-Heil Automatic Inhaler." (For Inhalers.) No. 22,007; Aug. 24; v. 277; p. 785.

Henning Wennersten Incorporated, Chicago, Ill. "Wennersten's Malthop, the Home Food-Beverage." (For Canned Extracts.) Nos. 22,061–2; Aug. 31; v. 277; p. 977.

Henschel, C. B., Mfg. Co., Milwaukee, Wis. "Dolores." (For Cigars.) No. 21,937; Aug. 3; v. 277; p. 180.

Hess, Edward L., Brooklyn, N. Y. "Pop's Peerless Polish." (For a Polish.) No. 22,006; Aug. 24; v. 277; p. 785.

Hibshman, Lucy A., Canton, Ohio. "Sub-Treatment for Goiter and Tumors." (For a Salve for the Treatment of Goiter and Tumors.) No. 21,971; Aug. 17; v. 277; p. 583.

Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Jute Clothes Line." (For Jute Clothesline.) No. 21,939; Aug. 3; v. 277; p. 180.

Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Sisal Clothes Line." (For Sisal Clothesline.) No. 21,940; Aug. 3; v. 277; p. 180.

Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best New Zealand Hemp Clothes Line." (For New Zealand Hemp Clothesline.) No. 21,941; Aug. 3; v. 277; p. 180.

Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Istle Clothes Line." (For Istle Clothesline.) No. 21,942; Aug. 3; v. 277; p. 180.

Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Mauritius Clothes Line." (For Mauritius Clothesline.) No. 21,943; Aug. 3; v. 277; p. 180.

Hooven and Allison Company, The, Xenia, Ohio. "The H & A Best Manila Clothes Line." (For Manila Clothesline.) No. 21,944; Aug. 3; v. 277; p. 180.

Hopkins, J. L., & Co., New York, N. Y. "J. L. Hopkins & Co." (For Milled Crude Drugs.) No. 22,008; Aug. 24; v. 277; p. 785.

Jackson Brewing Company, New Orleans, La. "Jinja-Jac." (For Ginger-Ale—Namely, Jinja-Jac.) No. 22,063; v. 277; p. 977.

Johnston, R. F., Paint Company, The, Cincinnati, Ohio. "Leather Lac." (For Preparation for Refinishing Leather Articles.) No. 22,009; Aug. 24; v. 277; p. 785.

Julian, E. S., Athens, Tenn. "Amebacide Compound." (For Remedy for Pyorrhea.) No. 21,945; Aug. 3; v. 277; p. 180.

Julian, Roger, Brooklyn, N. Y. "Acqua Di Chinina Magone." (For a Hair-Tonic.) No. 21,972; Aug. 17; v. 277; p. 583.

Kaffee Hag Corporation, New York, N. Y. "Life Belt." (For Coffee.) No. 22,010; Aug. 24; v. 277; p. 785.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Krumbled Bran." (For a Food.) No. 21,973; Aug. 17; v. 277; p. 583.

Kemi-Plug Manufacturing Co., Jamaica Plain, Mass. "Kemi-Plug Liquid Welding Solution." (For a Chemical Solution for Sealing Leaks in Automobile-Radiators and Steam-Boilers.) No. 21,946; Aug. 3; v. 277; p. 180.

Killian, W. H., Co., Baltimore, Md. "Killian's Kuality Supreme Pears." (For Pears.) No. 22,064; Aug. 31; v. 277; p. 977.

Lacteal Analytical Laboratories, Inc., Buffalo, N. Y. "Oxydene." (For a Disinfectant Sterilizer, Germicide, and Deodorant.) No. 22,011; Aug. 24; v. 277; p. 785.

Lady Jefferson Candy Company, Birmingham, Ala. "Old Style Lady Jefferson Candies Home Made." (For Candies.) No. 21,974; Aug. 17; v. 277; p. 583.

Larivee, Laura J., Detroit, Mich. "The Mascot." (For Scalp-Ointment.) No. 21,975; Aug. 17; v. 277; p. 583.

Lawrence Canning Company, The, Rockland, Me. "Lawrence's." (For Canned Sardines.) No. 22,065; Aug. 31; v. 277; p. 977.

Lebanon Springs Water Co., Inc., Lebanon Springs, N. Y. "Blue Bell Ginger Ale." (For a Ginger-Ale Beverage.) No. 22,066; Aug. 31; v. 277; p. 977.

Leedom, Theodore C., Toledo, Ohio, and Oil City, Pa. "Red Top." (For Evaporated Milk." No. 22,012; Aug. 24; v. 277; p. 785.

Levor, Victor, Attica, Ind. "Clinton Hand Made." (For Cigars.) No. 22,067; Aug. 31; v. 277; p. 977.

Lion Knitting Mills Co., The, Cleveland, Ohio. "The Ace." (For Caps, Sweaters, and Fancy Knit Goods.) No. 22,013; Aug. 24; v. 277; p. 785.

Lipton, Thomas J., Inc., Hoboken, N. J.; Chicago, Ill.; San Francisco, Calif. "Lipton's Instant Cocoa." (For Cocoa.) No. 22,068; Aug. 31; v. 277; p. 977.

Lisenby Manufacturing Company, Fresno, Calif. "Mahlstedt Multicolor Press." (For Printing Presses.) No. 22,069; Aug. 31; v. 277; p. 977.

Louisville Food Products Co., Louisville, Ky. "Labor Saver." (For Soap.) No. 22,070; Aug. 31; v. 277; p. 977.

Louisville Food Products Co., Louisville, Ky. "Joy Soap." (For Soap.) No. 22,071; Aug. 31; v. 277; p. 977.

McCord-Brady Company, Omaha, Nebr. "The Famous Brew." (For Coffee.) No. 21,947; Aug. 3; v. 277; p. 180.

McCrary, Frank B., Knoxville, Tenn. "Mack's Old Kentucky Fruitta Punch." (For a Flavoring-Syrup.) No. 21,976; Aug. 17; v. 277; p. 583.

McNamara, Lou, Kansas City, Mo. "Sweet Hearts Quality." (For Plastic Skin-Lotions.) No. 21,977; Aug. 17; v. 277; p. 583.

Malarial Specific Company, Inc., New York, N. Y. "Antiplasma Label." (For Malarial Medicine.) No. 22,014; Aug. 24; v. 277; p. 785.

Mandabach, Peter A., Chicago, Ill. "American Disinfectant." (For American Disinfectant.) No. 22,015; Aug. 24; v. 277; p. 785.

Mari, E. & O., Winfield Junction, N. Y. "La Bella." (For Musical-Instrument Strings Made of Gut.) No. 22,072; Aug. 31; v. 277; p. 977.

Men-Tho-Eze Corporation, Fort Dodge, Iowa. "Men-Tho-Eze 'Grandma Knows.'" (For Ointment.) No. 21,948; Aug. 3; v. 277; p. 180.

Milwaukee Macaroni Co., Milwaukee, Wis. "Paglacci Brand." (For Macaroni.) No. 22,016; Aug. 24; v. 277; p. 785.

Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Chocolate-Covered Cherries.) No. 21,949; Aug. 3; v. 277; p. 180.

Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Chocolate Cherries.) No. 22,017; Aug. 24; v. 277; p. 785.

Milwaukee Paper Box Company, Milwaukee, Wis. "Twentieth Century Chocolates." (For Chocolate Candy.) No. 22,018; Aug. 24; v. 277; p. 785.

Milwaukee Paper Box Company, Milwaukee, Wis. "The Bal Masque." (For Chocolate Candy.) No. 22,019; Aug. 24; v. 277; p. 785.

Milwaukee Paper Box Company, Milwaukee, Wis. "Milk Chocolates." (For Milk-Chocolates.) No. 22,020; Aug. 24; v. 277; p. 785.

Milwaukee Paper Box Company, Milwaukee, Wis. "Milk Chocolates." (For Chocolate Candy.) No. 22,074; Aug. 31; v. 277; p. 977.

Minck Bros. & Co., Inc., Brooklyn, N. Y. "Grape-O." (For a Beverage.) No. 22,073; Aug. 31; v. 277; p. 977.

Morse, A. G., Co., Chicago, Ill. "Value Received." (For Chocolates.) No. 21,950; Aug. 3; v. 277; p. 180.

Morse, A. G., Co., Chicago, Ill. "The Preferred Chocolates." (For Chocolates.) No. 21,951; Aug. 3; v. 277; p. 180.

Morse, A. G., & Co., Chicago, Ill. "Double Strength." (For Hard Candies—Namely, Hoarhound.) No. 22,075; Aug. 31; v. 277; p. 977.

Mutual Paint Company, St. Paul, Minn. "Mutnal." (For Paints and Varnishes.) No. 22,076; Aug. 31; v. 277; p. 977.

Nartz, Louis, Sioux City, Iowa. "Nartz's Sterling Bread." (For a Wrapper for Bread-Loaves.) No. 22,077; Aug. 31; v. 277; p. 977.

Newark Paraffine & Parchment Paper Co., Newark, N. J.; Columbus, Ohio, and New York, N. Y. "Milkmaid Bread." (For Bread.) No. 22,021; Aug. 24; v. 277; p. 785.

Nielsen & Kittle Canning Company, Ltd., East San Pedro, Cal. "Nekco." (For California Kippered Sardines.) No. 22,022; Aug. 24; v. 277; p. 785.

Nocan Soup Company, Hoboken, N. J. "Dehydrated Soup Nocan Taste." (For Dehydrated Soups.) No. 22,078; Aug. 31; v. 277; p. 977.

O'Brian, A. W., & Company, Hutchinson, Kans. "Germa Stomach and Liver Tablets." (For Stomach and Liver Tablets.) No. 21,978; Aug. 17; v. 277; p. 583.

O'Brian, A. W., & Company, Hutchinson, Kans. "Germa Kidney Tablets." (For Kidney-Tablets.) No. 22,079; Aug. 31; v. 277; p. 977.

Ocean Paint Works, Inc., Brooklyn, N. Y. "Marine Paints." (For Paints.) No. 22,023; Aug. 24; v. 277; p. 785.

Ocean Paint Works, Inc., Brooklyn, N. Y. "Mermaid Paints." (For Paints.) No. 22,024; Aug. 24; v. 277; p. 785.

Ohio Confection Company, The, Cleveland, Ohio. "Ditty Dotty." (For Candy.) No. 21,952; Aug. 3; v. 277; p. 180.

Orrison Cigar Co., Inc., The, Bethesda, Ohio. "Orico." (For Cigars.) No. 22,025; Aug. 24; v. 277; p. 785.

Pan-America Supply Company, Inc., New York, N. Y. "Pasco." (For Greases.) No. 21,962; Aug. 10; v. 277; p. 393.

Pennsylvania Chocolate Company, Pittsburgh, Pa. "Big '6' Chocolate." (For Vanilla Sweet Chocolate.) No. 22,026; Aug. 24; v. 277; p. 785.

Pierson, A. L., Mfg. Co., Galveston, Tex. "Alp." (For Men's Drawers.) No. 21,953; Aug. 3; v. 277; p. 180.

Ralston Purina Company, St. Louis, Mo. "Whole Wheat Bread." (For Whole-Wheat Bread.) No. 21,979; Aug. 17; v. 277; p. 583.

Refinite Company, The, Omaha, Nebr. "Refinite Rival of the Clouds." (For Water-Softening Material.) No. 22,080; Aug. 31; v. 277; p. 977.

Remar Company, San Francisco, Calif. "Remar Bread." (For Bread.) No. 22,081; Aug. 31; v. 277; p. 977.

Robertson, J. T., Company, The, Syracuse, N. Y. "Hospital Carbolic Oil Soap." (For Carbolic-Oil-Soap.) No. 22,027; Aug. 24; v. 277; p. 785.

Rosebeck Company, New York, N. Y. "Eversnap." (For Garment-Fastener.) No. 21,954; Aug. 3; v. 277; p. 180.

Sanna Company, Inc., New York, N. Y. "Lion Brand Fresh Whey Cheese." (For Cheese.) No. 22,028; Aug. 24; v. 277; p. 785.

Scheidt, Adam, Brewing Company, Norristown, Pa. "Valley Forge Special." (For Lager-Beer.) No. 22,082; Aug. 31; v. 277; p. 977.

Seal-Fast Mfg. Co., Indianapolis, Ind. "Seal-Fast." (For Repair-Patches for Automobile-Tubes.) No. 22,029; Aug. 24; v. 277; p. 786.

Sgobel and Day, New York, N. Y. "Our Pride." (For Apples.) No. 21,955; Aug. 3; v. 277; p. 180.

Slater, Harry A., Pittsburgh, Pa. "Argonne Cavity Fluid." (For Cavity Fluid.) No. 21,980; Aug. 17; v. 277; p. 583.

Slater, Harry A., Pittsburgh, Pa. "Argonne Embalming Fluid." (For Embalming Fluid.) No. 21,981; Aug. 17; v. 277; p. 583.

Smith, E. A., Tifton, Ga. "Smith's Hand-Made Candy." (For Candy.) No. 22,030; Aug. 24; v. 277; p. 786.

Southern Food Products Co., Cincinnati, Ohio. "Bully Boy Cordial Apricot Flavor." (For a Non-Alcoholic Drink.) No. 22,031; Aug. 24; v. 277; p. 786.

Southern Food Products Co., Cincinnati, Ohio. "Roxana Ginger Cordial." (For Ginger-Cordial.) No. 22,083; Aug. 31; v. 277; p. 978.

Sparks Milling Company, Alton, Ill., and Terre Haute, Ind. "Sparks Flour." (For Self-Rising Flour.) No. 22,084; Aug. 31; v. 277; p. 978.

St. Joe Canning Co., St. Joseph, Mich. "Miracle." (For Canned Peaches.) No. 21,956; Aug. 3; v. 277; p. 180.

Steiner, Emil E., Everett, Wash. "Drink Mixo." (For a Health-Drink Syrup.) No. 22,085; Aug. 31; v. 277; p. 978.

Steiner, Emil E., Everett, Wash. "Drink Steino." (For a Health-Drink Syrup.) No. 22,086; Aug. 31; v. 277; p. 978.

Steiner, Emil E., Everett, Wash. "Drink Vivo." (For a Health-Drink Syrup.) No. 22,087; Aug. 31; v. 277; p. 978.

Strauss, Max, New York, N. Y. "Luminette." (For Silk Piece Goods.) No. 22,088; Aug. 31; v. 277; p. 978.

Taves, C. W., Company, Chicago, Ill. "Manhattan." (For Hosiery.) No. 22,089; Aug. 31; v. 277; p. 978.

Thomason, J. A., & Co., Atlanta, Ga. "Thomason's Motor Life." (For a Gas-Saver, Carbon-Remover, and Lubricant for Any Style of Gasolene Explosive-Engine.) No. 22,090; Aug. 31; v. 277; p. 978.

Thompson, John R., Co., Chicago, Ill. "Thompson's." (For Pure Food Products.) No. 22,032; Aug. 24; v. 277; p. 786.

United American Trading Co., The, San Francisco, Calif. "13 Soap Unlucky For Dirt." (For Soap.) No. 22,091; Aug. 31; v. 277; p. 978.

University Heights Farms Co., Darby, Mont. "Favorite Brand Apples." (For Apples.) No. 22,033; Aug. 24; v. 277; p. 786.

Valley Fruit Co. Inc., Walla Walla, Wash. "Valley Brand." (For Fresh Apples.) No. 21,982; Aug. 17; v. 277; p. 583.

Victory Canning & Packing Company, Los Angeles, Calif. "Victory Canning & Packing Cos. Barnd." (For Canned Artichokes.) No. 22,034; Aug. 24; v. 277; p. 786.

West, Augustus A., Philadelphia, Pa. "La Belle Hair Net." (For Hair-Nets.) No. 22,035; Aug. 24; v. 277; p. 786.

Wetterer, Joseph, New York, N. Y. "Mor-Hair." (For a Remedy for Dandruff.) No. 22,092; Aug. 31; v. 277; p. 978.

Wigwam Co. Inc., The Syracuse, N. Y. "Put-Over-All." (For Overalls.) No. 22,036; Aug. 24; v. 277; p. 786.

Wilson, J. G., Corporation, The, Norfolk, Va. "Diffuselite." (For Paints.) No. 22,037; Aug. 24; v. 277; p. 786.

Wilson, J. G., Corporation, The, Norfolk, Va. "Painting for Light." (For Paints.) No. 22,038; Aug. 24; v. 277; p. 786.

Wright, James E. M., Portsmouth, Va. "Great Generals." (For Cut Smoking-Tobacco and Cigars.) No. 22,039; Aug. 24; v. 277; p. 786.

Zucker, Leo and Edward, Weinshel, Milwaukee, Wis. "Rite Fit Trousers." (For Men's Trousers.) No. 22,040; Aug. 24; v. 277; p. 786.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Acme Shear Company, The, Bridgeport, Conn. "For the Little Folks." (For Scissors and Shears.) No. 5,276; Aug. 3; v. 277; p. 180.

Associated Silver Company, Chicago, Ill. "'Yourex,' The Silver Plated Knives." (For Silver-Plated Knives.) No. 5,275; Aug. 3; v. 277; p. 180.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Sweet Birches." (For Candies.) No. 5,277; Aug. 3; v. 277; p. 180.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Wintergreens." (For Candy.) No. 5,281; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Lemon Drops." (For Candy.) No. 5,282; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Lime Drops." (For Candy.) No. 5,283; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Cinnamons." (For Candies.) No. 5,284; Aug. 10; v. 277; p. 393.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Mints." (For Candy Mints.) No. 5,318; Aug. 31; v. 277; p. 978.

Crouse-Hinds Co., Syracuse, N. Y. "You Will Not Regret It—If You Condulet It." (For Condulets.) No. 5,292; Aug. 24; v. 277; p. 786.

Daniel Hays Company, The, Gloversville, N. Y. "Hays Gloves." (For Leather Gloves.) No. 5,287; Aug. 17; v. 277; p. 583.

Economy Ink Company, The, Cincinnati, Ohio. "Make Your Own Ink." (For a Powdered Ink.) No. 5,293; Aug. 24; v. 277; p. 786.

Fairbank, N. K., Company, The, Chicago, Ill. "Gold Dust—A Real Help at Preserving Time." (For Washing-Powder.) No. 5,294; Aug. 24; v. 277; p. 786.

Garrett and Company, Incorporated, Penn Yan, N. Y. "Virginia Dare 'Agrees with the Constitution.'" (For Non-Intoxicating Wine.) No. 5,319; Aug. 31; v. 277; p. 978.

Grennan Cake Corporation, Chicago, Ill.; Cleveland, Ohio; Detroit, Mich.; St. Paul and Minneapolis, Minn. "Every Bite a Delight." (For Cakes.) No. 5,320; Aug. 31; v. 277; p. 978.

Harter Candy Co., The, Toledo, Ohio. "Sweetheart Chocolates." (For Candy.) No. 5,285; Aug. 10; v. 277; p. 393.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Touring Car." (For Automobiles.) No. 5,295; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Brougham." (For Automobiles.) Nos. 5,296–7; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Roadster." (For Automobiles.) No. 5,298; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Coupé." (For Automobiles.) No. 5,299; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Suburban." (For Automobiles.) No. 5,300; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Coupé." (For Automobiles.) No. 5,301; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Touring Car." (For Automobiles.) No. 5,302; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Suburban." (For Automobiles.) No. 5,303; Aug. 24; v. 277; p. 786.

Haynes Automobile Company, The, Kokomo, Ind. "The New 1920 Haynes Roadster." (For Automobiles.) No. 5,304; Aug. 24; v. 277; p. 786.

Hofstra Manufacturing Company, Tulsa, Okla. "Harmless to Humans—Fatal to Bugs." (For Insecticide.) No. 5,321; Aug. 31; v. 277; p. 978.

Hofstra Manufacturing Company, Tulsa, Okla. "Bugs Breathe It and Die." (For Insecticide.) No. 5,322; Aug. 31; v. 277; p. 978.

Hofstra Manufacturing Company, Tulsa, Okla. "Hofstra—The National Insecticide." (For Insecticide.) No. 5,323; Aug. 31; v. 277; p. 978.

Import Sales Company, New York, N. Y. "Christmas Tree Lighting Outfits." (For Lighting Outfits.) No. 5,324; Aug. 31; v. 277; p. 978.

Kaynee Company, The, Cleveland, Ohio. "Making A Hit." (For Boys' Blouses.) No. 5,325; Aug. 31; v. 277; p. 978.

Kirk, James S., & Company, Chicago, Ill. "Pure as Gold Transparent as Truth." (For Kirk's Jap Rose Soap.) No. 5,305; Aug. 24; v. 277; p. 786.

Lectro Sales Company, Portland, Oreg. "Lectro Service Stand." (For Devices for Locating and Eliminating Short Circuits in and Recharging Magnets of Ford Magnetos.) No. 5,288; Aug. 17; v. 277; p. 583.

Lee Hardware Co., The, Salina, Kans. "You Can Do This With Nurex." (For Tabbing Compounds.) No. 5,279; Aug. 3; v. 277; p. 180.

Lee Hardware Co., The, Salina Kans. "What Tabbing Compound Permits This?" Only Nurex! (For Tabbing Compounds.) No. 5,278; Aug. 3; v. 277; p. 180.

Lee Hardware Co., The, Salina, Kans. "Winter's Chilly Temperature Does Not Affect Nurex." (For Tabbing Compounds.) No. 5,306; Aug. 24; v. 277; p. 786.

Lee Hardware Co., The, Salina, Kan. "Nurex Tabbing Compound." (For Tabbing Compounds.) No. 5,326; Aug. 31; v. 277; p. 978.

Lee Hardware Co., The, Salina, Kans. "Carbon Sheets for Duplicating Cause No Trouble in Pads Bound by Nurex." (For Tabbing Compounds.) No. 5,327; Aug. 31; v. 277; p. 978.

Mellor, Norman, Philadelphia, Pa. "Arguto." (For Machinery Bearings.) No. 5,328; Aug. 31; v. 277; p. 978.

Northwestern Fruit Exchange, New York, N. Y. "Skookum America's Supreme Apples—Who Can Resist Them?" (For Apples.) No. 5,307; Aug. 24; v. 277; p. 786.

Novak, John, Company, Chicago, Ill. "Novak's Pills." (For Pills for the Treatment of Constipation.) No. 5,329; Aug. 31; v. 277; p. 978.

Nucoa Butter Company, The, New York, N. Y. "Nucoa Churn Girl." (For Substitute for Butter.) No. 5,286; Aug. 10; v. 277; p. 393.

Palmolive Company, The, Milwaukee, Wis. "The Price of Beauty." (For Soap.) No. 5,280; Aug. 3; v. 277; p. 180.

Palmolive Company, The, Milwaukee, Wis. "Every Complexion Needs Soap." (For Soap.) No. 5,308; Aug. 24; v. 277; p. 786.

Palmolive Company, The, Milwaukee, Wis. "The Way To Rose Complexions." (For Soap.) No. 5,309; Aug. 24; v. 277; p. 786.

Palmolive Company, The, Milwaukee, Wis. "Re-Incarnation of Beauty." (For Soap.) No. 5,310; Aug. 24; v. 277; p. 786.

Palmolive Company, The, Milwaukee, Wis. "The Price of a Good Complexion." (For Soap.) No. 5,330; Aug. 31; v. 277; p. 978.

Reliance Mfg. Company, Chicago, Ill. "Rely on Reliance." (For Work-Shirts.) No. 5,311; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Nailing the Right Bower Every Time the Deck's Dealt." (For Smoking-Tobacco.) No. 5,312; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Prince Albert the National Christmas Joy Smoke." (For Smoking-Tobacco.) No. 5,313; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You're Wise-o That You've Been Checking Smoke-sport." (For Smoking-Tobacco.) No. 5,314; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Taking Awkward Angles Out of the Early Christmas Morning Atmosphere." (For Smoking-Tobacco.) No 5,315; Aug. 24; v. 277; p. 786.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Talk About Handing Yourself a Birth-Day-Blow-Out With Bells on." (For Smoking-Tobacco.) No. 5,316; Aug. 24; v. 277; p. 786.

Schoenhofen Company, Chicago, Ill. "Drink Green River." (For Non-Alcoholic Beverages.) No. 5,289; Aug. 17; v. 277; p. 583.

Schoenhofen Company, Chicago, Ill. "Try a Green River Soda." (For Non-Alcoholic Beverages.) No. 5,290; Aug. 17; v. 277; p. 583.

Schoenhofen Company, Chicago, Ill. "Drink Green River the Snappy Lime Drink." (For Non-Alcoholic Beverage—Namely, a Lime Drink.) No. 5,317; Aug. 24; v. 277; p. 786.

Watkins, R. L., Company, The, Cleveland, Ohio. "Makes Your Hair Look Its Best." (For Mulsified Cocoanut Oil Shampoo.) Nos. 5,331–3; Aug. 31; v. 277; p. 978.

Wisconsin Butterine Co., Milwaukee, Wis. "Besto Nut." (For a Spread for Bread.) No. 5,291; Aug. 17; v. 277; p 583.

DISCLAIMERS.

Greenstreet, Jason H., Indianapolis, Ind.; disclaimer filed by assignee, Wirebound Patents Company. Box-blank machine. No. 1,325,719; disclaimer filed July 28, 1920; v. 277; p. 398.

Ide, Harry L., Springfield, Ill.; disclaimer filed by assignee, Elmer Stewart. Automobiles. No. 861,183; disclaimer filed July 12, 1920; v. 277; p. 184.

Lambert, Eric, Kansas City, Mo.; disclaimer filed by patentee. Apparatus for drying wood veneer. No. 1,228,790; disclaimer filed July 23, 1920; v. 277; p. 398.

Lubberger, Fritz, Chicago, Ill.; disclaimer filed by assignee, Automatic Electric Company. Semi-automatic telephone-exchange system. No. 1,306,824; disclaimer filed July 15, 1920; v. 277; p. 185.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF AUGUST, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accounting and typewriting machines, Sheet-feeding means for. S. S. Dixon. No. 1,348,984; Aug. 10; v. 277; p. 217.

Acid and other nitrogen compounds from atmospheric air, Manufacturing nitric. J. F. Sanders. No. 1,349,919; Aug. 17; v. 277; p. 473.

Acid, Manufacture of concentrated nitric. P. A. Guye. No. 1,348,873; Aug. 10; v. 277; p. 196.

Acid, Manufacture of picric. L. G. Badier. No. 1,349,802; Aug. 17; v. 277; p. 451.

Acid, Production of sulfuric. K. B. Quinan. No. 1,348,736; Aug. 3; v. 277; p. 117.

Acids, Thienylquinolin carboxylic. M. Hartmann and E. Wybert. No. 1,350,408; Aug. 24; v. 277; p. 614.

Adder, Listing. W. M. Holloway. No. 1,348,564; Aug. 3; v. 277; p. 84.

Adding-machine. C. M. Fitch. No. 1,349,194; Aug. 10; v. 277; p. 259.

Adding-machine. R. E. Wing. No. 1,351,082; Aug. 31; v. 277; p. 807.

Address-stencil. G. J. Evans. No. 1,350,993; Aug. 24; v. 277; p. 727.

Adjustable cutter. F. H. Korff and S. H. Humphrey. No. 1,349,967; Aug. 17; v. 277; p. 483.

Adjustable die. A. A. Gericke. No. 1,348,403; Aug. 3; v. 277; p. 54.

Adjustable gate, Vertically-. O. Veeder. No. 1,349,173; Aug. 10; v. 277; p. 254.

Adjustable support. G. L. Knights. No. 1,348,569; Aug. 3; v. 277; p. 85.

Adjustable wrench. E. M. Pauley. No. 1,349,852; Aug. 17; v. 277; p. 461.

Advertising-bench, Automatic. G. G. Dias. No. 1,348,852; Aug. 10; v. 277; p. 191.

Advertising device. E. J. Baker. No. 1,350,054; Aug. 17; v. 277; p. 499.

Advertising-display device. F. W. Sargent. No. 1,348,899; Aug. 10; v. 277; p. 200.

Advertisement and other papers, Holder for. R. Neddo. No. 1,349,906; Aug. 17; v. 277; p. 471.

Aerial condenser. L. P. Litsinger, P. F. Conerty, and W. Snodgrass. No. 1,349,681; Aug. 17; v. 277; p. 428.

Aeronautical apparatus. C. C. Haddock. No. 1,349,336; Aug. 10; v. 277; p. 287.

Aeronautical apparatus. H. W. Schmidt. No. 1,351,069; Aug. 31; v. 277; p. 805.

Aeroplane. I. Covino. No. 1,348,983; Aug. 10; v. 277; p. 217.

Aeroplane. J. Ebert. No. 1,348,934; Aug. 10; v. 277; p. 207.

Aeroplane. G. N. Kasematis and B. A. Stamatelopoulos. No. 1,349,460; Aug. 10; v. 277; p. 311.

Aeroplane. M. Petersen. No. 1,350,938; Aug. 24; v. 277; p. 717.

Aeroplane. J. F. Webb, Sr. No. 1,348,463; Aug. 3; v. 277; p. 65.

Aeroplane construction. H. G. Hooper. No. 1,348,996; Aug. 10; v. 277; p. 219.

Aeroplane control. V. De Dominicis and F. A. Reip. No. 1,348,548; Aug. 3; v. 277; p. 81.

Aeroplane-controlling device. C. R. Fairey. No. 1,350,145; Aug. 17; v. 277; p. 517.

Aeroplane-fuselage. G. Niedbala. No. 1,349,526; Aug. 10; v. 277; p. 325.

Aeroplane, Military. O. A. Ross. No. 1,349,105; Aug. 10; v. 277; p. 241.

Aeroplane, Multiple. G. Caproni. No. 1,349,116; Aug. 10; v. 277; p. 243.

Aeroplanes, Landing device for. A. C. Warren. No. 1,349,242; Aug. 10; v. 277; p. 268.

Aeroplanes, Liquid container for. L. L. Martineau. No. 1,351,395; Aug. 31; v. 277; p. 870.

Agitating device. P. G. Campbell. No. 1,349,492; Aug. 10; v. 277; p. 318.

Agricultural implement. J. Versteeg. No. 1,348,255; Aug. 3; v. 277; p. 25.

Air and gas mixer. A. W. Elling. No. 1,348,272; Aug. 3; v. 277; p. 28.

Air and water supplying device, Auxiliary. C. W. Jenkins. No. 1,351,170; Aug. 31; v. 277; p. 824.

Air-brakes, Cut-off and relief valve for. E. P. Clauss. No. 1,350,138; Aug. 17; v. 277; p. 515.

Air-brush. B. E. Holton. No. 1,349,154; Aug. 10; v. 277; p. 251.

Air-compressor. S. A. Johnson. No. 1,350,159; Aug. 17; v. 277; p. 519.

Air-cushion, Hydraulic. J. D. Langdon. No. 1,350,414; Aug. 24; v. 277; p. 616.

Air-heating attachment. G. D. Kennedy. No. 1,349,461; Aug. 10; v. 277; p. 311.

Air or gas, Storage cylinder or vessel for compressed. S. J. Murphy. No. 1,350,666; Aug. 24; v. 277; p. 665.

Air power-drive, Compressed-. G. C. Alstad. No. 1,349,036; Aug. 10; v. 277; p. 227.

Air-supplying-valve attachment. M. C. Kirkpatrick. No. 1,349,210; Aug. 10; v. 277; p. 262.

Air-vent. C. F. Nystrom. No. 1,350,109; Aug. 17; v. 277; p. 510.

Air-washer. W. H. L. Donaldson. No. 1,349,608; Aug. 17; v. 277; p. 414.

Aircraft-girder. E. E. Brown. No. 1,351,614; Aug. 31; v. 277; p. 913.

Aircraft seat-support. A. V. Roe. No. 1,350,266; Aug. 17; v. 277; p. 540.

Airplane construction. F. J. Plym. No. 1,348,374; Aug. 3; v. 277; p. 48.

Airplane safety attachment. R. P. Fox. No. 1,348,704; Aug. 3; v. 277; p. 111.

Airship. V. Pritelli. No. 1,351,301; Aug. 31; v. 277; p. 851.

Alarm: *See*—
Burglar-alarm.
Fire-alarm.

Alarm device. W. W. Miller. No. 1,349,904; Aug. 17; v. 277; p. 470.

Alcohol and making same, Absolute. G. B. Frankforter. No. 1,350,254; Aug. 17; v. 277; p. 538.

Alkali-metal hydroxids, Producing. S. S. Sadtler. No. 1,351,693; Aug. 31; v. 277; p. 928.

Alkaline accumulator. A. M. Cave. No. 1,350,956; Aug. 24; v. 277; p. 720.

Alkaline deposits, Recovering constituents of value from natural. C. Sundstrom. No. 1,349,445; Aug. 10; v. 277; p. 308.

Alkyl ether of starches and similar carbohydrates and producing same. L. Lilienfeld. No. 1,350,820; Aug. 24; v. 277; p. 695.

Alloy. H. S. Cooper. No. 1,350,359; Aug. 24; v. 277; p. 605.

Alloy. F. Milliken. No. 1,350,166; Aug. 17; v. 277; p. 521.

Alloy. F. Milliken. No. 1,351,673; Aug. 31; v. 277; p. 925.

Alloy. V. P. Taylor. No. 1,350,891; Aug. 24; v. 277; p. 708.

Alloy for electric welding. E. J. Kingsbury. No. 1,350,317; Aug. 24; v. 277; p. 596.

Alloy, Zinc. A. Tedesco. No. 1,350,892; Aug. 24; v. 277; p. 708.

Alloys containing nickel, Producing metallic. M. N. Salvati. No. 1,349,918; Aug. 17; v. 277; p. 473.

Alloys, Manufacturing aluminium. A. Tedesco. No. 1,350,893; Aug. 24; v. 277; p. 708.

Aluminium, Electrically depositing. G. L. Williams. No. 1,351,144; Aug. 31; v. 277; p. 819.

Aluminium from aluminic oxid, Producing. V. Gerber. No. 1,350,150; Aug. 17; v. 277; p. 518.

Aluminium from materials containing aluminic oxid, Producing nitrid of. V. Gerber. No. 1,350,149; Aug. 17; v. 277; p. 518.

Aluminum and its alloys, Deoxidizing. A. Strasser. No. 1,348,458; Aug. 3; v. 277; p. 64.

Ammonia contents of coal-gas, Process of and apparatus for recovering the. B. Torrey, Jr. No. 1,349,393; Aug. 10; v. 277; p. 298.

Ammonia synthesis, Forming a mixture of hydrogen and nitrogen for. G. P. Gerfin and M. Mauran. No. 1,349,756; Aug. 17; v. 277; p. 443.

Ammunition, Apparatus for lubricating. T. H. Eickhoff. No. 1,350,645; Aug. 24; v. 277; p. 661.

Ammunition, Primer for small-arms. H. T. Peck. No. 1,350,465; Aug. 24; v. 277; p. 626.

Amusement device. C. Lombardo. No. 1,350,873; Aug. 24; v. 277; p. 704.

Amusement device. A. Pinto. No. 1,350,176; Aug. 17; v. 277; p. 523.
Amusement device. J. Stanley and J. C. Porter. No. 1,350,066; Aug. 17; v. 277; p. 506.
Anatomical developing and adjusting machine. D. W. Riesland. No. 1,348,896; Aug. 10; v. 277; p. 200.
Anhydrid, Manufacture of nitric. P. A. Guye. No. 1,348,874; Aug. 10; v. 277; p. 196.
Anilin black upon vegetable textile fibers, Production of. E. A. Fourneaux. No. 1,350,600; Aug. 24; v. 277; p. 653.
Animal-trap. E. E. Rodgers, A. W. Wenger, and C. M. Rodgers. No. 1,348,449; Aug. 3; v. 277; p. 63.
Antirattler. H. C. Maise. No. 1,348,282; Aug. 3; v. 277; p. 20.
Antirattling device. G. A. Wells, Jr. No. 1,351,453; Aug. 31; v. 277; p. 861.
Antiseptics, Capsule for. L. E. Evslin. No. 1,350,804; Aug. 24; v. 277; p. 594.
Antiskidding device. W. E. Glover. No. 1,350,966; Aug. 24; v. 277; p. 722.
Anvil attachment. H. Trouts. No. 1,349,927; Aug. 17; v. 277; p. 474.
Apparel, particularly relating to gowns, dresses, coats, and the like. L. S. Reynard. No. 1,351,537; Aug. 31; v. 277; p. 598.
Apparel-supporter, Child's. H. McEldowney. No. 1,351,579; Aug. 31; v. 277; p. 907.
Appliance. P. Crowder. No. 1,349,368; Aug. 10; v. 277; p. 294.
Arch-support. W. C. Hill. No. 1,351,248; Aug. 31; v. 277; p. 840.
Arch-support. J. L. Zink. No. 1,349,355; Aug. 10; v. 277; p. 291.
Arm, Artificial. W. P. Anderson, N. C. Clarke, and J. F. Whitelaw. (Reissue.) No. 14,939; Aug. 31; v. 277; p. 934.
Armature, Relay-. J. I. Mitchiner. No. 1,351,674; Aug. 31; v. 277; p. 925.
Armor, Bullet-proof. G. O. Brewster. No. 1,348,204; Aug. 3; v. 277; p. 14.
Armor, Bullet-proof. G. O. Brewster. No. 1,350,062; Aug. 17; v. 277; p. 501.
Article-holder, Folding. A. Wiggers. No. 1,349,402; Aug. 10; v. 277; p. 300.
Article of manufacture and making same. C. Weber. No. 1,350,533; Aug. 24; v. 277; p. 640.
Artillery, Automatic fuse-setter for anti-aircraft. B. V. Morse. No. 1,349,220; Aug. 10; v. 277; p. 264.
Ash-conveyer. A. Girtanner. No. 1,348,937; Aug. 10; v. 277; p. 208.
Ash-conveyer. J. M. Hopwood. No. 1,351,572; Aug. 31; v. 277; p. 905.
Ash-conveyer. J. M. Hopwood. No. 1,351,573; Aug. 31; v. 277; p. 905.
Ash-discharge mechanism. F. T. and J. M. Nicholson. No. 1,348,659; Aug. 3; v. 277; p. 103.
Asphalt-kettle and steam-generating plant, Combined. C. F. Hetherington. No. 1,350,502; Aug. 24; v. 277; p. 634.
Atomiser. A. M. Holmes. No. 1,351,012; Aug. 24; v. 277; p. 731.
Audiphone. C. Larrick. No. 1,351,254; Aug. 31; v. 277; p. 841.
Auto-jack. W. M. Cook. No. 1,348,851; Aug. 10; v. 277; p. 191.
Auto-signal. E. Ortman. No. 1,349,092; Aug. 10; v. 277; p. 238.
Auto-theft signal. J. W. Marr. No. 1,350,032; Aug. 17; v. 277; p. 495.
Automatic coupling. W. V. Phillips. No. 1,349,433; Aug. 10; v. 277; p. 306.
Automobile-body construction, Convertible. L. Bresin. No. 1,348,624; Aug. 3; v. 277; p. 96.
Automobile-brake. E. V. Lawrence. No. 1,350,318; Aug. 24; v. 277; p. 596.
Automobile brake attachment. H. W. Haapaneh. No. 1,350,726; Aug. 24; v. 277; p. 677.
Automobile-buffer, Looped-attacher. G. A. Lyon. No. 1,351,050; Aug. 31; v. 277; p. 802.
Automobile-cowl attachment. J. H. Coffman. No. 1,349,715; Aug. 17; v. 277; p. 435.
Automobile-creeper. W. J. Broome. No. 1,349,941; Aug. 17; v. 277; p. 477.
Automobile-curtain compartment. J. W. Applin. No. 1,351,547; Aug. 31; v. 277; p. 900.
Automobile direction-signal. G. A. Forsberg. No. 1,351,635; Aug. 31; v. 277; p. 917.
Automobile direction-signal. W. L. and E. A. F. Miller, Jr. No. 1,350,463; Aug. 24; v. 277; p. 626.
Automobile emergency-tank. S. H. Love. No. 1,351,336; Aug. 31; v. 277; p. 858.
Automobile-jack. J. S. Cook. No. 1,348,627; Aug. 3; v. 277; p. 97.
Automobile-lifter. J. E. Coffey. No. 1,351,506; Aug. 31; v. 277; p. 892.
Automobile-lock. L. Balestrino and G. Merigone. No. 1,348,841; Aug. 10; v. 277; p. 189.
Automobile-lock. L. B. Halliday. No. 1,350,497; Aug. 24; v. 277; p. 633.
Automobile-lock. J. W. Hunter and E. Williamson. No. 1,351,651; Aug. 31; v. 277; p. 920.
Automobile-lock. A. W. Kemmling. No. 1,350,816; Aug. 24; v. 277; p. 596.
Automobile-lock. E. McCracken. No. 1,351,297; Aug. 31; v. 277; p. 850.
Automobile-lock. C. W. Nixon. No. 1,348,891; Aug. 10; v. 277; p. 199.
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Automobile-lock. C. C. Trosien. No. 1,348,337; Aug. 3; v. 277; p. 41.
Automobile-lock, Safety. J. G. Schwartz. No. 1,350,741; Aug. 24; v. 277; p. 680.
Automobile-locking device. C. F. Norton. No. 1,349,849; Aug. 17; v. 277; p. 460.
Automobile-muff. C. R. Scott. No. 1,351,303; Aug. 31; v. 277; p. 852.
Automobile multiple-lever lock. L. Balestrino and G. Merigone. No. 1,348,840; Aug. 10; v. 277; p. 189.
Automobile-power-transmission device. H. H. Marshall, Jr. No. 1,349,428; Aug. 10; v. 277; p. 305.
Automobile-rim, Collapsible. L. B. Olney. No. 1,350,262; Aug. 17; v. 277; p. 539.
Automobile-running-board truss-rods, Repair-clamp for. G. K. Caviness. No. 1,350,253; Aug. 17; v. 277; p. 538.
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Automobile-signal. D. W. Grazier. No. 1,351,513; Aug. 31; v. 277; p. 893.
Automobile-signal. E. F. Griffin. No. 1,351,642; Aug. 31; v. 277; p. 919.
Automobile-signal. C. J. Hughes. No. 1,350,998; Aug. 24; v. 277; p. 728.
Automobile-signal. H. Klatt. No. 1,351,662; Aug. 31; v. 277; p. 923.
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Automobile signal-light. W. H. Baltes. No. 1,350,539; Aug. 24; v. 277; p. 641.
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Automobile-timer. L. E. Middlebrook. No. 1,349,523; Aug. 10; v. 277; p. 324.
Automobile-top. E. Spiegel. No. 1,348,593; Aug. 3; v. 277; p. 90.
Automobile-tractor. L. S. Szumkowski. No. 1,350,889; Aug. 24; v. 277; p. 707.
Automobile traffic-signal. S. Olszewski. No. 1,349,689; Aug. 17; v. 277; p. 430.
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Automobiles, Device for holding tires upon. C. M. Trammell. No. 1,350,897; Aug. 24; v. 277; p. 708.
Automobiles, Device for repairing fenders. F. A. Briggs. No. 1,348,625; Aug. 3; v. 277; p. 96.
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Automobiles, Pneumatic transmission for. W. C. Kress. No. 1,349,161; Aug. 10; v. 277; p. 252.
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Bag and twine holder. E. Lorange. No. 1,350,874; Aug. 24; v. 277; p. 704.
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Basket-nailing machine. O. H. Kilmer and P. Madison. No. 1,349,965; Aug. 17; v. 277; p. 482.
Bass-drum-operating mechanism. J. D. Williams. No. 1,350,195; Aug. 17; v. 277; p. 527.
Bath-water, Means for agitating. R. E. Kolshorn. No. 1,350,974; Aug. 24; v. 277; p. 724.
Bathtub. G. C. Strachan. No. 1,348,250; Aug. 3; v. 277; p. 24.
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Damper-gage. Oil-gage.
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Phonograph winding-handle.
Vise-handle.
Handle. W. Handler. No. 1,350,650; Aug. 24; v. 277; p. 662.
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Calendar-hanger.
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Door-hanger.
Laundry-hanger.
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Electric rivet-heater.
Feed-water heater.
Gas-heater.
Gas-burning heater.
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Ledger, Loose-leaf. C. T. Nankervis. No. 1,349,577; Aug. 17; v. 277; p. 408.

Leg, Artificial. G. W. Prisbrey. No. 1,350,518; Aug. 24; v. 277; p. 637.

Lenses, Manufacturing of. T. B. Drescher. No. 1,350,441; Aug. 24; v. 277; p. 622.

Level and tube-holder therefor. W. A. Roeske. No. 1,348,742; Aug. 3; v. 277; p. 117.

Leveling attachment. H. F. Unruh. No. 1,349,928; Aug. 17; v. 277; p. 474.

Lever attachment. C. H. Walker. (Reissue.) No. 14,944; Aug. 31; v. 277; p. 935.

Lever control, Auxiliary-spark-. L. J. Cooper. No. 1,349,944; Aug. 17; v. 277; p. 478.

Lever lock, Gear-shift-. C. L. Johnson. No. 1,350,810; Aug. 24; v. 277; p. 693.

Levers, Mounting for shuttle-operating. H. E. Smallbone. No. 1,348,965; Aug. 10; v. 277; p. 213.

Lid-holder. J. Huttner. No. 1,349,155; Aug. 10; v. 277; p. 251.

Life-protector. P. Billy. No. 1,350,136; Aug. 17; v. 277; p. 515.

Lifeboat. G. Dorffel. No. 1,351,627; Aug. 31; v. 277; p. 916.

Lifting-clamp. C. D. Meals. No. 1,351,530; Aug. 31; v. 277; p. 897.

Lifting device. G. M. French and W. B. Pavey. No. 1,349,450; Aug. 10; v. 277; p. 309.

Lifting-jack. O. E. Flohr. No. 1,348,195; Aug. 10; v. 277; p. 259.

Lifting-jack. A. W. Gordon. No. 1,348,867; Aug. 10; v. 277; p. 194.

Lifting-jack, Self-lowering. C. W. Ripsch and J. C. Dawley. No. 1,349,101; Aug. 10; v. 277; p. 240.

Lifting-jack for use on motor road and other vehicles. F. L. Rapson. No. 1,350,036; Aug. 17; v. 277; p. 496.

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Automobile signal-light. Electric light.
Dirigible light. Portable light.

Light-deflector. C. S. Brown and R. R. Shaffer. No. 1,348,927; Aug. 10; v. 277; p. 206.

Light-distributer. V. Walsh. No. 1,349,241; Aug. 10; v. 277; p. 268.

Light fixture, Electric-. F. E. d'Humy. No. 1,351,375; Aug. 31; v. 277; p. 867.

Light-holder. A. J. Barrett. No. 1,349,312; Aug. 10; v. 277; p. 282.

Light-signal. E. J. Blake. (Reissue.) No. 14,940; Aug. 31; v. 277; p. 935.

Light-standards, Independently-detachable undershade for. M. Y. Sugimura. No. 1,349,478; Aug. 10; v. 277; p. 315.

Lighting-fixture. W. E. Jerome. No. 1,350,809; Aug. 24; v. 277; p. 693.

Lighting-fixture. A. Lazerson. No. 1,351,255; Aug. 31; v. 277; p. 841.

Lighting-fixture. F. Yokel. No. 1,349,485; Aug. 10; v. 277; p. 316.

Limb, Artificial. G. S. Koglund. No. 1,350,743; Aug. 24; v. 277; p. 681.

Lime-hydrator. F. W. Weber. No. 1,350,534; Aug. 24; v. 277; p. 640.

Lime, Treating. A. E. Horn. No. 1,348,494; Aug. 3; v. 277; p. 71.

Line-supporting post, Adjustable. G. Broshears. No. 1,350,208; Aug. 17; v. 277; p. 530.

Linoleum and product thereof, Inlaying. C. A. O'Brien. No. 1,351,679; Aug. 31; v. 277; p. 926.

Linoleum, Manufacture of floor-coverings as a substitute for. J. H. P. Ligterink. No. 1,348,571; Aug. 3; v. 277; p. 86.

Linotype-form and means for producing same, Ruled. W. C. Hollister. No. 1,349,720; Aug. 17; v. 277; p. 436.

Lint-collecting system. J. Davidson. No. 1,350,439; Aug. 24; v. 277; p. 621.

Linting-machine. G. N. Woodruff. No. 1,349,179; Aug. 10; v. 277; p. 256.

Liquid and gas contact apparatus. H. J. Zimmermann. No. 1,350,202; Aug. 17; v. 277; p. 528.

Liquid-containers, Means for establishing auxiliary convection in. O. E. Huebner. No. 1,350,728; Aug. 24; v. 277; p. 678.

Liquid-fuel-ignition mechanism. A. Doble. No. 1,349,877; Aug. 17; v. 277; p. 465.

Liquid in evaporating installations, Apparatus for regulating and maintaining a desired level in. E. A. Barbet. No. 1,349,114; Aug. 10; v. 27; p. 242.

Liquids, Apparatus for separating solids from. H. N. Herrick. No. 1,349,881; Aug. 17; v. 277; p. 466.

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Liquids, Apparatus for treating. W. Koedding and W. J Lemp. No. 1,351,522; Aug. 31; v. 277; p. 895.

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Liquids, Producing foam in. E. Wirth-Frey. No. 1,351,089; Aug. 31; v. 277; p. 809.

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Loading-machine. F. Billings. No. 1,349,749; Aug. 17; v. 277; p. 441.

Locating buried objects, Instrument for. W. S. Darley. No. 1,351,556; Aug. 31; v. 277; p. 902.

Lock: *See*—
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Automobile multiple-lever lock. Show-case lock.
Book-lock. Standard-lock.
Combination-lock. Steering-gear lock.
Elevator-door lock. Steering-mechanism lock.
Gear-shift lock. Steering-wheel lock.
Hinge-lock. Switch-lock.
Ignition-lock. Tank-lock.
Lever-lock. Tire-lock.
Nut-lock. Valve-lock.
Safe-lock. Vehicle-door lock.
Screw-lock. Wheel-lock.
Window-lock.

Lock. I. D. Brill. No. 1,350,356; Aug. 24; v. 277; p. 604.

Lock. A. E. Cox. No. 1,350,989; Aug. 24; v. 277; p. 726.

Lock. L. T. Diebolt. No. 1,350,213; Aug. 17; v. 277; p. 530.

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Lock. J. M. Taylor. No. 1,350,392; Aug. 24; v. 277; p. 611.

Lock and retainer, Shift-block. G. C. Jensen. No. 1,348,802; Aug. 3; v. 277; p. 129.

Lock and reversing mechanism, Differential. E. J. Gould. No. 1,350,276; Aug. 17; v. 277; p. 542.

Lock construction. F. A. Newhall. No. 1,35 .117; Aug. 31; v. 277; p. 814.

Lock-nut or union, Adjustable split. H. E. Dickinson. No. 1,350,142; Aug. 17; v. 277; p. 516.

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Locomotive-cab window. H. C. Hogle. No. 1,348,647; Aug. 3; v. 277; p. 100.

Locomotive, Electric. G. H. F. Holy. No. 1,351,039; Aug. 31; v. 277; p. 800.

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Loom, Automatic filling-replenishing. A. E. Rhoades. No. 1,351,189; Aug. 31; v. 277; p. 828.

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Railway-switch-operating mechanism. C. E. Tally. No. 1,350,949; Aug. 24; v. 277; p. 719.
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Wall for embankments, Retaining-. C. Paff. No. 1,349,166; Aug. 10; v. 277; p. 253.
Wall system. W. H. Drabers. No. 1,351,471; Aug. 31; v. 277; p. 885.
Washboiler attachment. E. Bak. No. 1,349,545; Aug. 10; v. 277; p. 328.
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Air-washer.
Washing-machine. J. H. Bair. No. 1,350,353; Aug. 24; v. 277; p. 603.
Washing-machine. W. G. Dawson. No. 1,349,370; Aug. 10; v. 277; p. 294.
Washing-machine. H. C. Hirschy. No. 1,349,338; Aug. 10; v. 277; p. 287.
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Washing-machine. N. N. Nunn. No. 1,351,486; Aug. 31; v. 277; p. 888.
Washing-machine. W. H. Sargent. No. 1,350,115; Aug. 17; v. 277; p. 511.
Washing-machine. W. H. Sargent. No. 1,350,116; Aug. 17; v. 277; p. 511.
Washing-machine. W. M. Simpson. No. 1,351,008; Aug. 24; v. 277; p. 730.
Washing machine, Dish-. E. J. Rohne. No. 1,348,322; Aug. 3; v. 277; p. 38.
Washing machines, Nozzle-header for bottle-. W. W. Birnstock. No. 1,349,144; Aug. 10; v. 277; p. 249.
Washtubs, Clothes-wringer attachment for. J. J. Herb. No. 1,348,797; Aug. 3; v. 277; p. 128.
Watch-bow. H. P. Bailey. No. 1,348,388; Aug. 3; v. 277; p. 51.
Watch-protector. P. Gomil. No. 1,348,866; Aug. 10; v. 277; p. 194.
Water-bottles, Drinking-cup holder for. C. Rosenthal. No. 1,349,473; Aug. 10; v. 277; p. 314.
Water-closet bowl. H. D. Farris. No. 1,349,193; Aug. 10; v. 277; p. 258.
Water cut-off, Reversible rain-. T. H. Brison. No. 1,349,808; Aug. 17; v. 277; p. 452.
Water-circulator, Vacuum. A. C. Taylor. No. 1,349,636; Aug. 17; v. 277; p. 419.
Water-heater. N. Hubbard. No. 1,349,571; Aug. 17; v. 277; p. 406.
Water-level. J. Kaspar and R. F. Beran. No. 1,349,613; Aug. 17; v. 277; p. 414.
Water-motor. J. N. Hipkins and F. C. Coss. No. 1,348,800; Aug. 3; v. 277; p. 128.

Water-motor. W. J. Kinback. No. 1,350,025; Aug. 17; v. 277; p. 494.
Water-power device, Submersible. J. C. Streibich and G. F. Gruver. No. 1,350,187; Aug. 17; v. 277; p. 525.
Water-softening compound and producing same. G. L. Borrowman. No. 1,348,977; Aug. 10; v. 277; p. 216.
Water-stop. A. H. Hauser. No. 1,348,562; Aug. 3; v. 277; p. 84.
Watering device. C. F. Kollin. No. 1,350,411; Aug. 24; v. 277; p. 615.
Watering device, Non-freezable. C. C. Fifield. No. 1,348,489; Aug. 3; v. 277; p. 70.
Waterproofed fabric. W. B. Pratt. No. 1,349,910; Aug. 17; v. 277; p. 471.
Waterproofed material and making same. R. B. Sutter. No. 1,351,087; Aug. 31; v. 277; p. 808.
Wax polish, Non-cumulative. W. H. Damon. (Reissue.) No. 14,930; Aug. 17; v. 277; p. 545.
Weather-strip. G. C. Reeves. No. 1,350,883; Aug. 24; v. 277; p. 706.
Weeder, Four-wheel-truck. H. C. Odenrider. No. 1,348,311; Aug. 3; v. 277; p. 36.
Weeding implement. T. S. Moffett. No. 1,348,438; Aug. 3; v. 277; p. 61.
Weft-detecting mechanism. A. S. Hutchins. No. 1,349,341; Aug. 10; v. 277; p. 288.
Weighing-machine, Automatic. C. Kader. No. 1,350,611; Aug. 24; v. 277; p. 655.
Welding apparatus. H. M. Smith. No. 1,350,572; Aug. 24; v. 277; p. 648.
Welding condenser parts. R. D. Mershon and P. A. Ross. No. 1,350,557; Aug. 24; v. 277; p. 644.
Welding, Electric. T. E., Jr., and J. B. Murray. No. 1,350,831; Aug. 24; v. 277; p. 697.
Welding-machine, Combination. H. M. Smith. No. 1,351,446; Aug. 31; v. 277; p. 880.
Welding-machine, Duplex rotary electric. J. Ledwinka. No. 1,351,717; Aug. 31; v. 277; p. 933.
Welding, Method of and apparatus for electric. N. Wilkinson. No. 1,351,271; Aug. 31; v. 277; p. 845.
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Welding transverse plates to tubes, Electrically. T. E. Murray. No. 1,350,833; Aug. 24; v. 277; p. 697.
Well-boring apparatus. T. P. Shean. No. 1,348,325; Aug. 3; v. 277; p. 39.
Well-drilling bit for oil, water, or gas. J. D. Pace. No. 1,351,003; Aug. 24; v. 277; p. 729.
Welt-forming device. A. W. Liljeberg. No. 1,350,731; Aug. 24; v. 277; p. 678.
Welt-indenting machine. J. H. Rigby. No. 1,351,064; Aug. 31; v. 277; p. 804.
Wheel: *See*—
Balance-wheel. Resilient wheel.
Car-wheel. Sheet-metal vehicle-wheel.
Convertible wheel. Shock-absorbing wheel.
Disk wheel. Spring-wheel.
Fifth wheel. Trolley-wheel.
Gear-wheel. Vehicle-wheel.
Metal wheel.
Wheel and axle construction. J. A. Carter. No. 1,349,559; Aug. 17; v. 277; p. 404.
Wheel and demountable rim construction. J. Stungo. No. 1,351,587; Aug. 31; v. 277; p. 908.
Wheel and spoke, Vehicle. F. T. Alder. No. 1,349,035; Aug. 10; v. 277; p. 227.
Wheel-brake mechanism, Motor-car rear-. A. A. Sebastian and D. R. Capes. No. 1,348,452; Aug. 3; v. 277; p. 63.
Wheel construction. R. J. Goodson. No. 1,351,640; Aug. 31; v. 277; p. 918.
Wheel-dressing mechanism. J. J. Thacher. No. 1,350,531; Aug. 24; v. 277; p. 639.
Wheel-gudgeon. W. B. Wigle. No. 1,349,030; Aug. 10; v. 277; p. 226.
Wheel holder, Plow-guide-. G. Hazelman. No. 1,351,382; Aug. 31; v. 277; p. 868.
Wheel-hub and bearing. J. R. Adams. No. 1,350,851; Aug. 24; v. 277; p. 700.
Wheel-lifting device, Demountable-. A. O. Peltier. No. 1,349,581; Aug. 17; v. 277; p. 408.
Wheel-lock. I. Hadinger. No. 1,351,644; Aug. 31; v. 277; p. 919.
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Wheel or rim spreader. O. K. Sauder. No. 1,350,524; Aug. 24; v. 277; p. 638.
Wheel-rims, Electric butt-welding and molding device for metal. J. W. Jackson. No. 1,348,948; Aug. 10; v. 277; p. 210.
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Wheel with demountable rim. J. C. Manternach and C. W. Gressle. No. 1,351,183; Aug. 31; v. 277; p. 827.
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Wicker-panel. W. H. Stocker. No. 1,349,477; Aug. 10; v. 277; p. 314.
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Windmill. H. Zahnow. No. 1,349,182; Aug. 10; v. 277; p. 256.
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Window attachment. J. E. Galbraith. No. 1,350,147; Aug. 17; v. 277; p. 517.
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Window-guard. D. J. Mahoney. No. 1,349,521; Aug. 10; v. 277; p. 324.
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Horseshoe-calk wrench. Vehicle-hub wrench.
Monkey-wrench.
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Electric switch, &c., Plate for an. F. E. Greene. No. 56,143; Aug. 24; v. 277; p. 739.
Electric switch, &c., Plate for an. F. E. Greene. No. 56,147; Aug. 24; v. 277; p. 740.
Emblem, badge, button or similar article. M. E. Hellbrun. No. 56,155; Aug. 24; v. 277; p. 741.
Emblematic article of manufacture. D. Rosenbach. No. 56,239; Aug. 31; v. 277; p. 940.
Fabric for decorative purposes, Textile. G. Reybet. Nos. 56,194–5; Aug. 24; v. 277; p. 748.
Fabric for decorative purposes, Textile. G. J. Vergile. Nos. 56,208–9; Aug. 24; v. 277; p. 750.
Fabric for decorative purposes, Textile. C. Waugh. No. 56,086; Aug. 10; v. 277; p. 350.
Fabric for decorative purposes, Textile. C. Waugh. No. 56,213; Aug. 24; v. 277; p. 751.
Fabric, Textile. C. Katz. No. 56,172; Aug. 24; v. 277; p. 744.
Fabric, Textile. E. Krupicka. No. 55,949; Aug. 3; v. 277; p. 140.
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Fabric, Textile. L. F. Orcutt. Nos. 56,187–9; Aug. 24; v. 277; p. 747.
Figurette. M. L. Russell. No. 55,959; Aug. 3; v. 277; p. 141.
Food-masher. B. F. Crisenberry. No. 56,119; Aug. 24; v. 277; p. 734.
Furniture-leg. H. E. De Vries and C. C. Kusterer. No. 56,053; Aug. 10; v. 277; p. 344.
Game-board. J. Guerin. No. 56,150; Aug. 24; v. 277; p. 740.
Game-board. M. Peterson. No. 56,080; Aug. 10; v. 277; p. 349.
Game-board. E. J. Scott. No. 56,200; Aug. 24; v. 277; p. 749.
Game, Finger-rest and pointer for a. J. Vanderkamp. No. 56,085; Aug. 10; v. 277; p. 350.
Glass cover for a dish. H. S. Evans. No. 56,228; Aug. 31; v. 277; p. 938.
Hair-cutting-machine frame. S. M. Coffman. No. 56,223; Aug. 31; v. 277; p. 937.
Hanger and radius-rod bracket. Combination spring-. F. P. Sawders and J. G. Murray. No. 56,033; Aug. 10; v. 277; p. 341.
Hatband. J. H. de Sibour. No. 56,120; Aug. 24; v. 277; p. 734.
Heat-insulated receptacle. I. L. French. No. 56,061; Aug. 10; v. 277; p. 346.
Heater, Stand-base of an electric. R. G. Ledig. No. 56,009; Aug. 10; v. 277; p. 337.
Heel-plate. G. Becherer. No. 55,971; Aug. 10; v. 277; p. 330.
Heel protector, Shoe-. I. M. Snyder. No. 56,034; Aug. 10; v. 277; p. 341.
Heel-rest, Vehicle-operator's. W. A. Honeyman. No. 56,234; Aug. 31; v. 277; p. 939.
Heel, Rubber. S. B. Frederick. No. 56,000; Aug. 10; v. 277; p. 335.
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Highway-guide device. W. F. McMullan and H. J. Hickey. No. 56,102; Aug. 17; v. 277; p. 549.
Hose-supporting loop. D. H. Warner. No. 56,042; Aug. 10; v. 277; p. 343.
Illusion device. V. N. Simon. No. 55,960; Aug. 3; v. 277; p. 141.
Inkstand. F. A. Weeks. Nos. 55,967–8; Aug. 3; v. 277; p. 143.
Inkstand-cover. F. A. Weeks. No. 55,969; Aug. 3; v. 277; p. 143.
Jewel-setting. J. W. Mayer. No. 55,952; Aug. 3; v. 277; p. 140.
Kazoo. L. V. Aronson. No. 56,114; Aug. 24; v. 277; p. 733.
Key-ring. L. J. Berry and H. Smith. No. 56,116; Aug. 24; v. 277; p. 734.
Knife, Arcing-. J. H. Lickert. No. 56,013; Aug. 10; v. 277; p. 337.
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Knife holder or similar article, Fruit-. V. Gaertner. No. 56,229; Aug. 31; v. 277; p. 938.
Knife, Household. J. H. Lickert. No. 56,011; Aug. 10; v. 277; p. 337.
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Lace. T. O. Kümalehto. No. 56,180; Aug. 24; v. 277; p. 746.
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Lace, Embroidered. H. Schwarber. No. 56,240; Aug. 31; v. 277; p. 940.
Ladle and print, Combined butter. G. Price. No. 56,028; Aug. 10; v. 277; p. 340.
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Lamp. W. Lumley. No. 56,014; Aug. 10; v. 277; p. 338.
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Lamp, Electric floor-. F. A. Frerichs. No. 56,126; Aug. 24; v. 277; p. 736.
Lamp, Electric table-. F. A. Frerichs. No. 56,129; Aug. 24; v. 277; p. 736.
Lamp-fixture. H. A. Holloway. Nos. 56,162–3; Aug. 24; v. 277; p. 743.
Lamp-globe band. J. W. Gosling. No. 56,062; Aug. 10; v. 277; p. 346.
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Lighting-fixture body. S. Kostszewski. No. 56,069; Aug. 10; v. 277; p. 347.
Lighting-fixture canopy. H. Cohn. No. 55,598; Aug. 3; v. 277; p. 138.
Lighting-fixture globe. F. W. Mathieu. No. 56,074; Aug. 10; v. 277; p. 348.
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Manhole-cover. N. J. McKeon. No. 56,015; Aug. 10; v. 277; p. 338.
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Match-holder and ash-receptacle, Combined. H. C. Traute. No. 56,039; Aug. 10; v. 277; p. 342.
Medal or badge. J. H. Sweeny. No. 56,083; Aug. 10; v. 277; p. 349.
Middy-blouses. I. C. Lasier. No. 55,950; Aug. 3; v. 277; p. 140.
Mirror. S. T. Nowacki. No. 56,025; Aug. 10; v. 277; p. 339.
Mirror for motor-vehicles, Rear-sight. F. W. Rees. No. 56,030; Aug. 10; v. 277; p. 340.
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Parasol or umbrella. I. H. Weinberg and C. F. Bisbing. No. 56,043; Aug. 10; v. 277; p. 343.
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Pennant. L. S. Corson. No. 56,070; Aug. 10; v. 277; p. 347.
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Phonograph case or cabinet. J. F. Bosserman. No. 56,218; Aug. 31; v. 277; p. 936.
Phonograph-casing. S. L. M. Pearson. No. 56,026; Aug. 10; v. 277; p. 339.
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Pick. A. Diacich. No. 56,054; Aug. 10; v. 277; p. 345.
Picture-frame. Z. Klotz. No. 56,173; Aug. 24; v. 277; p. 745.
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Pillow top or article of similar nature. M. D. Dreyfach. No. 56,121; Aug. 24; v. 277; p. 735.
Pin. M. Nielsen. No. 56,024; Aug. 10; v. 277; p. 339.
Pin, brooch, ring, or article of similar nature. L. Hirsch. No. 55,946; Aug. 3; v. 277; p. 139.
Pin or badge, Fraternity. O. Henry. No. 56,156; Aug. 24; v. 277; p. 741.
Pin or similar device for personal wear. B. R. Reynolds. No. 55,957; Aug. 3; v. 277; p. 141.
Plug-cluster. R. B. Benjamin. No. 55,973; Aug. 10; v. 277; p. 330.
Pole-holder. R. A. Schultz. No. 56,197; Aug. 24; v. 277; p. 749.
Pump-nozzle connection, Air-. C. M. Boyce. No. 55,975; Aug. 10; v. 277; p. 330.
Radiator. J. A. Hinger. No. 56,065; Aug. 10; v. 277; p. 346.
Ring. S. Mitchell. No. 56,184; Aug. 24; v. 277; p. 746.
Ring, Finger-. M. Weiner and W. Loeb. Nos. 56,087–92; Aug. 10; v. 277; pp. 350–1.
Romper, Child's. E. Gillman and L. Siegel. No. 56,231; Aug. 31; v. 277; p. 939.
Rug. J. G. Speck. No. 55,961; Aug. 3; v. 277; p. 142.
Sadiron-handle. F. Rososcsuk. No. 56,032; Aug. 10; v. 277; p. 341.
Seat. P. J. Jones and P. D. Screiber. No. 56,169; Aug. 24; v. 277; p. 744.
Seat, Adjustable industrial. E. W. Allen. No. 55,927; Aug. 3; v. 277; p. 136.
Shield, badge, button, pin, or similar article. W. J. Tennent. No. 55,965; Aug. 3; v. 277; p. 142.
Shingle, Roofing-. C. Russell. No. 56,106; Aug. 17; v. 277; p. 550.
Signal, Automobilist's hand-. W. W. Kuhlmann. No. 56,008; Aug. 10; v. 277; p. 336.
Sleigh-knee. F. G. Hinegardner and D. W. Bowman. No. 56,004; Aug. 10; v. 277; p. 336.
Smoker's stand. A. Cheeks. No. 56,221; Aug. 31; v. 277; p. 937.
Soap dispenser, Liquid-. E. L. Morris. No. 56,079; Aug. 10; v. 277; p. 349.
Socket-cover. H. Cohn. No. 55,930; Aug. 3; v. 277; p. 138.
Speedometer face-plate. J. Berge. No. 55,974; Aug. 10; v. 277; p. 330.
Spoon, fork, &c., Handle for. C. W. Harman. No. 56,153; Aug. 24; v. 277; p. 741.
Spoon, fork or similar article. E. T. Beck. Nos. 56,215–16; Aug. 31; v. 277; p. 936.
Spoon, fork, or similar article. E. H. Johnson. No. 56,236; Aug. 31; v. 277; p. 940.
Spoon, fork or similar article. A. G. Kintz. No. 56,237; Aug. 31; v. 277; p. 940.
Spoon, fork, or similar article, Handle for a. G. L. Crowell, Jr. Nos. 55,982–3; Aug. 10; v. 277; p. 332.
Spot-light. E. H. Howard. No. 56,066; Aug. 10; v. 277; p. 347.
Stand. W. F. Fans. No. 56,097; Aug. 17; v. 277; p. 548.
Statuette. W. J. Jacobi. No. 56,164; Aug. 24; v. 277; p. 743.
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Statuette. J. J. Kearney and G. H. Winter. No. 56,100; Aug. 17; v. 277; p. 549.
Stove, Oil-. F. E. White. No. 56,111; Aug. 17; v. 277; p. 551.
Street-direction and advertising device. H. J. Hickey and W. E. McMullan. No. 56,157; Aug. 24; v. 277; p. 742.
Switch-plate, Double toggle. W. J. Newton. No. 56,023; Aug. 10; v. 277; p. 339.
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Table or similar article. M. B. Lloyd. Nos. 56,182–3; Aug. 24; v. 277; p. 746.
Table, Portable serving-. A. Haskell. No. 55,945; Aug. 3; v. 277; p. 139.
Talking-board movable member. W. Fuld. No. 56,001; Aug. 10; v. 277; p. 335.
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Talking-machine sound-conducting device. D. Di Carlo. No. 55,986; Aug. 10; v. 277; p. 332.
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Tire. R. H. Holbrook. No. 56,158; Aug. 24; v. 277; p. 742.
Tire. A. J. Pennington. Nos. 56,103–5; Aug. 17; v. 277; pp. 549–50.
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Tire-tread. H. B. Bixler; No. 56,217; Aug. 31; v. 277; p. 936.
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Tire-tread. J. D. Tew. No. 55,966; Aug. 3; v. 277; p. 142.
Toy. M. J. Rohr. No. 55,958; Aug. 3; v. 277; p. 141.
Toy, Aerial. S. N. Juthe and S. H. Lang. No. 56,171; Aug. 24; v. 277; p. 744.
Toy aeroplane. E. Monteleone. No. 56,185; Aug. 24; v. 277; p. 747.
Toy, Animal. J. M. Hollister. No. 56,161; Aug. 24; v. 277; p. 742.
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Toy chair. J. M. Hollister. No. 56,159; Aug. 24; v. 277; p. 742.
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Toy wheelbarrow. E. Gillam. No. 56,003; Aug. 10; v. 277; p. 336.
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Vase-holder, Automobile. W. Kenner. No. 56,006; Aug. 10; v. 277; p. 336.
Vehicle, Child's. J. Van Wuyckhuyse. No. 56,207; Aug. 24; v. 277; p. 750.
Vending-machine case. H. C. Traute. No. 56,038; Aug. 10; v. 277; p. 342.
Votive stand. M. A. Flannery. No. 56,059; Aug. 10; v. 277; p. 345.
Wall-bracket, Electric. F. A. Frerichs. Nos. 56,131–2; Aug. 24; v. 277; p. 737.
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Abrasive, detergent, and polishing materials. De Nordiske Fabriker De No Fa Aktieselskab. No. 133,631; Aug. 3; v. 277; p. 171.
Abrasive devices for use on commutators of electric machines. J. W. Becker. No. 133,579; Aug. 3; v. 277; p. 169.
Adding, listing, and calculating machines. Wales Adding Machine Company. No. 134,199; Aug. 17; v. 277; p. 582.
Adhesive compound for mending automobile-radiators, &c. H. R. Pendleton. No. 134,264; Aug. 24; v. 277; p. 778.
Aeroplane packing cases and crates. Handley Page Limited. No. 133,695; Aug. 3; v. 277; p. 173.
Agricultural implements. Burch Plow Works Company. No. 133,600; Aug. 3; v. 277; p. 170.
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Alloys, Non-ferrous. United American Metals Corporation. No. 134,454; Aug. 31; v. 277; p. 974.
Aluminum-polish. F. G. Stewart. No. 134,093; Aug. 10; v. 277; p. 391.
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Apples, Fresh. J. P. Gray. No. 134,244; Aug. 24; v. 277; p. 778.
Auction-sale outfits. The Flex-Tie Supply Company. No. 133,963; Aug. 10; v. 277; p. 387.
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Automobile accessory. Orange Manufacturing Company. No. 134,186; Aug. 17; v. 277; p. 582.
Automobile appliances. Mayo-Skinner Mfg. Company. No. 133,742; Aug. 3; v. 277; p. 175.
Automobile-polish, Wax. Stowell Gribble Chemical Company. No. 134,325; Aug. 24; v. 277; p. 781.
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Automobile sun-shields. H. J. Doyle. No. 134,355; Aug. 31; v. 277; p. 971.
Automobiles. La Fayette Motor Company. Nos. 134,404–5; Aug. 31; v. 277; p. 973.
Automobiles and motor-trucks. Stanwood Motor Car Company. No. 134,440; Aug. 31; v. 277; p. 974.
Bacon and ham. J. T. McMillan Company. No. 133,735; Aug. 3; v. 277; p. 174.
Bacteria culture for inoculating seeds. M. Trumper. No. 134,452; Aug. 31; v. 277; p. 974.
Bags, Ash and coal. O. Stuart. No. 133,838; Aug. 3; v. 277; p. 178.
Baskets made of steel, Waste-. Metal Office Furniture Co. No. 133,745; Aug. 3; v. 277; p. 175.
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Belts, partly of rubber, for supporting outer garments. Marathon Tire and Rubber Co. No. 133,739; Aug. 3; v. 277; p. 175.
Belting. Manhattan Rubber Mfg. Co. No. 133,736; Aug. 3; v. 277; p. 174.
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Belting, packing, and hose. Manhattan Rubber Mfg. Co. No. 133,737; Aug. 3; v. 277; p. 174.
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Beltings and laces. Jewell Belting Company. No. 133,709; Aug. 3; v. 277; p. 174.
Beltings, lacings, packings, and hose. Pacific Mill and Mine Supply Company. No. 133,773; Aug. 3; v. 277; p. 176.
Beverage, Non-alcoholic, non-intoxicating. St. Louis Beverage Company. No. 134,441; Aug. 31; v. 277; p. 974.
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Beverage sold as a soft drink. Hoster-Columbus Company. No. 133,705; Aug. 3; v. 277; p. 173.
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Beverages, Non-intoxicating cereal. A. P. Munro. No. 133,757; Aug. 3; v. 277; p. 175.
Beverages, Non-intoxicating malt. Fred Krug Product Co. No. 134,403; Aug. 31; v. 277; p. 973.
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Blank forms. The A. S. Gilman Printing Company. No. 133,973; Aug. 10; v. 277; p. 387.
Blanket of insulating material for electrical workers. F. A. Hardy & Co. No. 133,694; Aug. 3; v. 277; p. 173.
Blankets, Cotton bed-. The Esmond Mills. No. 133,646; Aug. 3; v. 277; p. 172.
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Bobbins, reel-arms, &c. Clover Leaf Manufacturing Company. No. 133,615. Aug. 3; v. 277; p. 171.
Boilers, expansion-tanks, &c., Range-. John Wood Mfg. Co. No. 134,330; Aug. 24; v. 277; p. 781.
Boilers, Steam-. F. A. Patrick & Co. No. 134,425; Aug. 31; v. 277; p. 973.
Books, Account-. Bickmore Co. No. 133,909; Aug. 10; v. 277; p. 385.
Boots and shoes. Griggs-Paxton Shoe Co. No. 133,659; Aug. 3; v. 277; p. 173.
Boots and shoes. Thos. H. Logan Co. No. 133,848; Aug. 3; v. 277; p. 178.
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Braiding-machines and parts thereof. Wardwell Braiding Machine Company. No. 134,200; Aug. 17; v. 277; p. 582.
Bread. S. H. Freihofer. No. 133,664; Aug. 3; v. 277; p. 172.
Bread. Ruch-Drompp Grocery Co. No. 134,077; Aug. 10; v. 277; p. 390.
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Bread. D. P. Woolley. No. 134,300; Aug. 24; v. 277; p. 779.
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Brisling and sild, (frequently known generically as sardines.) The Overseas Export Co. Nos. 134,052–8; Aug. 10; v. 277; p. 390.
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Cables, Electric portable. Tubular Woven Fabric Company. No. 134,107; Aug. 10; v. 277; p. 391.
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Candy. W. D. Buchanan. No. 133,917; Aug. 10; v. 277; p. 386.
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Cementing composition used to join pieces of metal. Deeds & Chapin. No. 133,628; Aug. 3; v. 277; p. 171.
Cementitious preparation usable in the form of a putty. F. B. O'Brien. No. 134,259; Aug. 24; v. 277; p. 778.
Cereal products and a prepared cake-flour. C. A. Gambrill Manufacturing Company. No. 133,970; Aug. 10; v. 277; p. 387.
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Containers and sterilizers for tooth-brushes. H. R. Radin. No. 133,786; Aug. 3; v. 277; p. 176.
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Cooking compound. Lever Brothers Company. No. 134,252; Aug. 24; v. 277; p. 778.
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Cutlery and dies for engraving stationery, &c. Tiffany & Company. No. 134,196; Aug. 17; v. 277; p. 582.
Cutlery, machinery, tools. Aktiebolaget Ingeniörsfirman G. A. Lindstedt & Co. No. 134,149; Aug. 17; v. 277; p. 581.
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Drills, twills, and sheeting, Unbleached, dyed, and printed. M. Lowenstein & Sons. No. 133,727; Aug. 3; v. 277; p. 174.
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Electrical apparatus, machines, and supplies. American Hard Rubber Company. No. 133,892; Aug. 10; v. 277; p. 385.
Electrical apparatus, machines, and supplies. W. R. Cox. Nos. 133,939–40; Aug. 10; v. 277; p. 386.
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Embossing composition. F. Malchow. No. 134,021; Aug. 10; v. 277; p. 389.
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Fancy goods, furnishings, and notions. Waldes & Co. No. 133,863; Aug. 3; v. 277; p. 178.
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Faucets, valves, cocks. The Cleveland Brass Manufacturing Company. No. 133,614; Aug. 3; v. 277; p. 171.
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Fire-alarms, Mechanical. Fabart Instrument Co. No. 133,648; Aug. 3; v. 277; p. 172.
Fire-extinguishers. Foamite Firefoam Company. No. 133,964; Aug. 10; v. 277; p. 387.
Fire-extinguishers, Hand. The Ralko Products Company. No. 134,189; Aug. 17; v. 277; p. 582.
Fire-hose. C. M. C. Baird. No. 133,574; Aug. 3; v. 277; p. 169.
Fishing-tools for wells. Arthur H. Brandon & Co. No. 134,154; Aug. 17; v. 277; p. 581.
Flat-ware and tableware, Silver-plated. Oneida Community. No. 134,050; Aug. 10; v. 277; p. 390.
Flavoring extracts Food-. Ades Product Corporation. No. 134,333; Aug. 31; v. 277; p. 971.
Flour, Barley-malt. Gambrill Grain Products Company. No. 134,238; Aug. 24; v. 277; p. 778.
Flour, bran, middlings, &c., Wheat-. A. Dodge & Son Corp. No. 133,955; Aug. 10; v. 277; p. 387.
Flour, Corn-. The Patent Cereals Company. No. 134,262; Aug. 24; v. 277; p. 778.
Flour, cornmeal, and rolled oats, Wheat-. W. P. Tanner-Gross & Company. No. 134,286; Aug. 24; v. 277; p. 779.
Flour, Enriched pastry-. R. Maurice and Company. No. 134,024; Aug. 10; v. 277; p. 389.
Flour, Highest-patent. Morrison Bros. Mills. No. 134,033; Aug. 10; v. 277; p. 389.
Flour, hominy, grits, meal, &c., Corn-. Postum Cereal Company. No. 134,267; Aug. 24; v. 277; p. 778.
Flour, Pancake-. The Commercial Milling Co. No. 134,350; Aug. 31; v. 277; p. 971.
Flour, Rye-. Stern Milling Company. No. 134,092; Aug. 10; v. 277; p. 391.
Flour, Self-rising. The Ashland Milling Co. No. 133,890; Aug. 10; v. 277; p. 385.
Flour, Self-rising wheat-. Albany Grocery Co. No. 133,890; Aug. 10; v. 277; p. 385.
Flour, Wheat-. Amendt Milling Company. No. 133,891; Aug. 10; v. 277; p. 385.

Flour, Wheat-. The Atchison Mills Corporation. No. 134,214; Aug. 24; v. 277; p. 777.
Flour, Wheat-. The Colorado Milling & Elevator Co. No. 134,229; Aug. 24; v. 277; p. 777.
Flour, Wheat-. Donmeyer, Gardner Co. Nos. 134,233–4; Aug. 24; v. 277; p. 777.
Flour, Wheat-. G. H. Dulle Milling Co. No. 133,957; Aug. 10; v. 277; p. 387.
Flour, Wheat-. Hormel Milling Company. No. 134,246; Aug. 24; v. 277; p. 278.
Flour, Wheat-. The Longmont Farmers Milling & Elevator Co. No. 133,726; Aug. 3; v. 277; p. 174.
Flour, Wheat-. J. Moskowitz. No. 134,035; Aug. 10; v. 277; p. 389
Flour, Wheat-. Nashville Roller Mills. No. 134,039; Aug. 10; v. 277; p. 389.
Flour, Wheat-. Omaha Flour Mills Co. Nos. 134,048–9; Aug. 10; v. 277; p. 389.
Flour, Wheat-. Omaha Flour Mills Co. No. 134,423; Aug. 31; v. 277; p. 973.
Flour, Wheat-. Robin Hood Mills, Limited. No. 134,431; Aug. 31; v. 277; p. 974.
Flour, Wheat-. Washburn Crosby Co. Nos. 133,943–4; Aug. 10; v. 277; p. 386.
Flour, Wheat-. Washburn-Crosby Company. Nos. 134,293–7; Aug. 24; v. 277; p. 779.
Flour, Wheat-. Wichita Mill & Elevator Company. Nos. 134,137–8; Aug. 10; v. 277; p. 392.
Flour, Wheat-. Wilmarth and Rice. No. 134,140; Aug. 10; v. 277; p. 392.
Flour, Wheat and buckwheat. Bay City Milling Company. No. 134,218; Aug. 24; v. 277; p. 777.
Flour, Wheat and self-rising wheat. City Mills Company. Nos. 134,227–8; Aug. 24; v. 277; p. 777
Flours and meals for making dietetic foods. Dietetic Cellulose Company. No. 133,954; Aug. 10; v. 277; p. 387.
Flours, Wheat and rye. W. P. Tanner-Gross & Company. Nos. 134,099–102; Aug. 10; v. 277; p. 391.
Flowers, Artificial. R. J. Munn & Bros. No. 134,321; Aug. 24; v. 277; p. 781.
Folders, Advertising-. Bert L. White Company. No. 134,132–3; Aug. 10; v. 277; p. 392.
Food. Leota Food Products Co. No. 134,011; Aug. 10; v. 277; p. 388.
Food for poultry, &c., Scratch. S. A. Rogers Co. No. 134,074; Aug. 10; v. 277; p. 390.
Food powder. S. Gumpert & Co. No. 133,984; Aug. 10; v. 277; p. 388.
Food product in solution for infants, &c. Fairchild Bros. & Foster. No. 133,960; Aug. 10; v. 277; p. 387.
Food products. W. R. Roach & Co. No. 133,799; Aug. 3; v. 277; p. 176.
Foods. I. Burger, Inc. Nos. 133,921–2; Aug. 10; v. 277; p. 386.
Foods. Chapman & Smith Company. No. 133,930; Aug. 10; v. 277; p. 386.
Foods. Gould, Wells & Blackburn Co. No. 133,980; Aug. 10; v. 277; p. 387.
Foods. John R. Thompson Co. No. 134,288; Aug. 24; v. 277; p. 779.
Foods. Mexican Products Corporation. No. 134,028; Aug. 10; v. 277; p. 389.
Foods. Odelsa Mfg. Co. No. 134,260; Aug. 24; v. 277; p. 778.
Foods. Oscar F. Mayer & Bro. No. 134,025; Aug. 10; v. 277; p. 389.
Foods. Purepakt Products Company. No. 134,068; Aug. 10; v. 277; p. 390.
Foods. United Wholesale Grocery Co. No. 134,115; Aug. 10; v. 277; p. 391.
Foods and ingredients of foods. Basket Stores Company. Nos. 133,905–6; Aug. 10; v. 277; p. 385.
Foods and ingredients of foods. Haas, Baruch & Co. No. 134,369; Aug. 31; v. 277; p. 972.
Foods and ingredients of foods. O. F. Mayer & Bros. No. 133,741; Aug. 3; v. 277; p. 175.
Foods, Breakfast. V. D. Lersch. No. 134,251; Aug. 24; v. 277; p. 778.
Food Chilli-. U. Urbany. No. 134,109; Aug. 10; v. 277; p. 391.
Foods, drugs, and chemicals, Machinery and appliances used in their manufacture. Petri and Jones Company. No. 134,187; Aug. 17; v. 277; p. 582.
Foods, Infants'. United Drug Company. No. 134,113; Aug. 10; v. 277; p. 391.
Foods, particularly bird-seed, Animal. R. T. Harding. No. 134,371; Aug. 31; v. 277; p. 972.
Foods, Sea. Neptune Fisheries. No. 133,962; Aug. 10; v. 277; p. 387.
Forgings, Heat-treated. Heppenstall Forge and Knife Company. No. 134,171; Aug. 17; v. 277; p. 581.
Forgings, Steel drop-. Anderson Forge & Machine Company. No. 133,568; Aug. 3; v. 277; p. 169.
Fountains for poultry and feed-hoppers for stock and poultry, Watering-. W. A. McCullough & Sons. No. 134,410; Aug. 31; v. 277; p. 973.
Frame-linings, Anti-squeak. Charles Bond Company. No. 133,586; Aug. 3; v. 277; p. 170.
Fruit—namely, grape-fruit, Citrus. J. W. Reed. No. 134,071; Aug. 10; v. 277; p. 390.
Fruit preserves, jam, canned salmon. A. Rupert Company. No. 134,078; Aug. 10; v. 277; p. 390.
Fruits. F. L. Granger. No. 134,368; Aug. 31; v. 277; p. 972.
Fruits and vegetables, Fresh. Mexico Arizona Trading Company. No. 134,414; Aug. 31; v. 277; p. 978.
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Fruits, Citrus. Placentia Mutual Orange Association. No. 134,066; Aug. 10; v. 277; p. 390.
Fruits, Citrus. Stripes Citrus Packing Co. No. 134,442; Aug. 31; v. 277; p. 974.
Fruits, Citrus and fresh. L. Powers. No. 134,268; Aug. 24; v. 277; p. 778.
Fruits, Dried. Seggerman Bros. No. 134,083; Aug. 10; v. 277; p. 391.
Fruits, Fresh. Jones & Pettigrew. No. 134,249; Aug. 24; v. 277; p. 278.
Fruits, jellies, jams, &c., Preserved. Gordon & Dilworth. No. 133,978; Aug. 10; v. 277; p. 387.
Fruits—namely, grapes, Fresh. C. Wilson. No. 134,299; Aug. 24; v. 277; p. 779.
Furnaces, burners, and torches, Gas soldering and soft-metal. Charles A. Hones, Inc. No. 134,382; Aug. 31; v. 277; p. 972.
Furniture and automobile-body polishes. I. Kellerman. No. 134,004; Aug. 10; v. 277; p. 388.
Furniture-polish, Liquid. McComb Brothers. No. 133,731; Aug. 3; v. 277; p. 174.
Fuses, motors, lamps, &c., Electric. Electrical apparatus, machines, and supplies. No. 134,036; Aug. 10; v. 277; p. 389.
Games. The Weinthrop Company. No. 133,867; Aug. 3; v. 277; p. 179.
Garages, animal and poultry houses, &c. The Farm Equipment Co. No. 134,359; Aug. 31; v. 277; p. 971.
Garments for women and children. C. N. Adelmann. No. 133,557; Aug. 3; v. 277; p. 169.
Gas-engines and hoists for same, Marine and stationary. Standard Gas Engine Co. No. 134,193; Aug. 17; v. 277; p. 582.
Gasolene-engines, lifting-jacks, &c. The Buda Company. No. 133,597; Aug. 3; v. 277; p. 170.
Gasolenes. Sinclair Refining Company. No. 134,089; Aug. 10; v. 277; p. 391.
Ginger-ale. Grape Ola Products Corporation. No. 133,685; Aug. 3; v. 277; p. 173.
Glass. Corning Glass Works. No. 134,311; Aug. 24; v. 277; p. 781.
Glassware, Table-. Tiffany and Company. Nos. 134,448–9; Aug. 31; v. 277; p. 974.
Gloves, Wool. Morgan Knitting Mills. No. 133,754; Aug. 3; v. 277; p. 175.
Glue. M. Fiegel & Bro. No. 134,235; Aug. 24; v. 277; p. 777.
Glue. The Napco Corporation. No. 133,759; Aug. 3; v. 277; p. 175.
Golf-clubs, fishing-rods, reels, &c. Simmons Hardware Company. No. 133,821; Aug. 3; v. 277; p. 177.
Gowns for outer wear, Ladies'. J. Nemaer. No. 133,765; Aug. 3; v. 277; p. 175.
Grain-drills, broadcast fertilizer-sowers, &c. The American Seeding-Machine Company. No. 134,152; Aug. 17; v. 277; p. 581.
Grape-juice. Grape O'a Products Corporation. No. 133,686; Aug. 3; v. 277; p. 173.
Grease-cups. Hunter Pressed Steel Co. No. 134,174; Aug. 17; v. 277; p. 581.
Grinding machines, Stock-feed-. S. Cheney & Son. No. 134,161; Aug. 17; v. 277; p. 581.
Guards for animals, Nose-. R. Brownson & Company. No. 133,595; Aug. 3; v. 277; p. 170.
Gum-shellac, Bleached. Wm. Zuisser & Co. No. 134,470; Aug. 31; v. 277; p. 975.
Hair-grower. Mrs. D. Burch. No. 133,599; Aug. 3; v. 277; p. 170.
Hair-grower. J. J. Zofsak. No. 133,885; Aug. 3; v. 277; p. 179.
Hair-nets. The Bloch Chemical Company. No. 133,583; Aug. 3; v. 277; p. 170.
Hair-nets. S. Glemby, Inc. Nos. 133,672–4; Aug. 3; v. 277; p. 172.
Hair-nets. Hartmann Brothers. No. 133,699; Aug. 3; v. 277; p. 173.
Hair-tonic and toilet deodorant. J. R. Watkins. No. 133,880; Aug. 3; v. 277; p. 179.
Hairpins, wire hairpins, hair-fasteners, hair-wavers, safety and toilet pins, Composition. Reichman & Faust. No. 133,790; Aug. 3; v. 277; p. 176.
Hams. Corkran, Hill & Co. No. 134,310; Aug. 24; v. 277; p. 781.
Hams, bacon, and lard. F. E. Patrick-Young Co. No. 134,063; Aug. 10; v. 277; p. 390.
Hams, bacon, and picnic-hams. J. E. Decker & Sons. No. 133,950; Aug. 10; v. 277; p. 386.
Handbags. Danda-Halpern Co. No. 133,626; Aug. 3; v. 277; p. 171.
Handkerchiefs. Carson, Pirie, Scott & Co. No. 133,604; Aug. 3; v. 277; p. 170.
Handles, knobs, pulls, Enameled. American Enamel Company. No. 133,561; Aug. 3; v. 277; p. 169.
Hardware and plumbing and steamfitting supplies. Bowden Wire Limited. No. 133,588; Aug. 3; v. 277; p. 170.
Hats, Ladies'. Engle and Zelmer. No. 133,644; Aug. 3; v. 277; p. 172.
Hats, Men's. Hodshon Hat Co. No. 133,703; Aug. 3; v. 277; p. 173.
Heaters for air, Electrical. J. W. Tewksbury. No. 133,874; Aug. 3; v. 277; p. 179.

Heaters, Gas-. J. I. Robin. No. 134,432; Aug. 31; v. 277; p. 974.
Hops. Geo. Herrmann Company. No. 134,377; Aug. 31; v. 277; p. 972.
Horse-collar. Harpham Bros. Co. No. 133,697; Aug. 3; v. 277; p. 173.
Hose made of fabric and rubber. United States Rubber Company. No. 133,858; Aug. 3; v. 277; p. 178.
Hosiery. Rodgers Hosiery Company. No. 133,801; Aug. 3; v. 277; p. 177.
Hosiery and children's rompers. J. E. Baer. No. 133,902; Aug. 10; v. 277; p. 385.
Hosiery and underwear. Rivoli Silk Hosiery Co. No. 134,323; Aug. 24; v. 277; p. 781.
Hosiery for men and women. W. B. Seidel. No. 133,815; Aug. 3; v. 277; p. 177.
Ice, Artificial. General Necessities Corporation. No. 134,366; Aug. 31; v. 277; p. 972.
Ice-cream. Detroit Creamery Company. No. 134,231; Aug. 24; v. 277; p. 777.
Ice-cream. The Reid Ice Cream Company. No. 134,429; Aug. 31; v. 277; p. 974.
Ice-cream and butter. Duluth Creamery & Produce Company. No. 134,356; Aug. 31; v. 277; p. 971.
Ice-cream and charlotte russe. The Reid Ice Cream Company. No. 134,428; Aug. 31; v. 277; p. 974.
Ice-cream, butter, candy, &c. Cairo Food Products Company. No. 133,924; Aug. 10; v. 277; p. 386.
Ice-cream, fancy chocolates, and creamery-butter. Arctic Cream Co. No. 134,213; Aug. 24; v. 277; p. 777.
Ice-cream, frozen custard, and ices. Hendler Creamery Company. No. 134,376; Aug. 31; v. 277; p. 972.
Ice-cream, Stabilizing agent employed in the manufacture of. B. Heller and Company. No. 134,375; Aug. 31; v. 277; p. 972.
Idlers and rolls for conveying machinery. Link-Belt Company. No. 133,721; Aug. 3; v. 277; p. 174.
Ink in tablet form. Gosselin Trading Corporation. No. 133,979; Aug. 10; v. 277; p. 387.
Inks, Photo-engravers'. J. T. Barlow. No. 133,904; Aug. 10; v. 277; p. 185.
Insecticide and fungicide. J. M. Jones. No. 134,177; Aug. 17; v. 277; p. 582.
Incense. S. C. Ghosh. No. 134,436; Aug. 31; v. 277; p. 974.
Instruments for indicating, measuring, and recording the velocity of flowing streams. The Pitometer Company. No. 134,265; Aug. 24; v. 277; p. 778.
Insulated-wire conductors. Tubular Woven Fabric Company. No. 134,108; Aug. 10; v. 277; p. 391.
Insulating material. John C. Dolph Company. No. 133,956; Aug. 10; v. 277; p. 387.
Insulation and insulating objects, Electrical. Diamond State Fibre Company. No. 133,953; Aug. 10; v. 277; p. 387.
Iron and steel, plain, corrugated, round, square, and flat. Tennessee Coal, Iron & Railroad Company. No. 134,195; Aug. 17; v. 277; p. 582.
Irons, Electric flat-. Chicago Flexible Shaft Company. No. 133,611; Aug. 3; v. 277; p. 171.
Jar-rings. United States Rubber Company. No. 133,857; Aug. 3; v. 277; p. 178.
Jellies, jams, and fruit preserves. Estate of George E. Wales. No. 134,456; Aug. 31; v. 277; p. 974.
Jewelry. A. B. Manufacturing Company. No. 133,889; Aug. 10; v. 277; p. 385.
Jewelry. The Traub Manufacturing Company. No. 134,105; Aug. 10; v. 277; p. 391.
Jumpers and overalls. Ely & Walker Dry Goods Company. No. 133,641; Aug. 3; v. 277; p. 172.
Knit underwear and sweaters, Men's. Wyman Partridge & Co. No. 133,882; Aug. 3; v. 277; p. 179.
Knitted underwear. Ford Manufacturing Company. No. 133,656; Aug. 3; v. 277; p. 172.
Knitted vests and union suits, Ladies'. W. W. Moyer. No. 133,756; Aug. 3; v. 277; p. 175.
Knives. Dwight Divine & Sons. No. 133,637; Aug. 3; v. 277; p. 171.
Knives, Pocket, table, butcher, and trade. John Russell Cutlery Company. Nos. 133,806–7; Aug. 3; v. 277; p. 177.
Laces, Shoe-. C. P. Schaeffer. No. 133,809; Aug. 3; v. 277; p. 177.
Lacings, Shoe, corset, and underwear. International Braid Company. No. 133,706; Aug. 3; v. 277; p. 173.
Lamps, candlesticks, and candelabra, Non-electric. Tiffany and Company. Nos. 134,450–1; Aug. 31; v. 277; p. 974.
Lard, Kettle-rendered. Corn Belt Packing Company. No. 133,938; Aug. 10; v. 277; p. 386.
Laundry appliances and machines. Brokaw-Eden Manufacturing Company. No. 133,592; Aug. 3; v. 277; p. 170.
Laundry-machines, &c., Machines for timing and controlling the period of operation of. The Automatic Appliance Company. Nos. 134,215–16; v. 277; p. 777.
Lead Products. Lead Products Company. No. 133,717; Aug. 3; v. 277; p. 174.
Leather and fabric dressing. J. W. Colley. No. 133,619; Aug. 3; v. 277; p. 171.
Leather-dressing. Whittemore Brothers, Corporation. No. 134,136; Aug. 10; v. 277; p. 392.
Leather, Harness and shoe. McIntyre-Burrall Company. No. 134,320; Aug. 24; v. 277; p. 781.
Leather, Side-. Perkins & McNeely. No. 134,411; Aug. 31; v. 277; p. 973.
Lenses for spectacles and eyeglasses, Optical. L. A. Heilig. No. 134,159; Aug. 17; v. 277; p. 581.
Lenses, lens-blanks, and spectacle-frames, Spectacle-. J. H. Hammon. No. 133,693; Aug. 3; v. 277; p. 173.
Lingerie, underwear, shoes, and hats. Jureldini Export Company. No. 133,710; Aug. 3; v. 277; p. 174.
Liniment. Henry Thayer & Co. No. 133,847; Aug. 3; v. 277; p. 178.
Liniments for wrenches, sprains, bruises, &c., cow and horse physic for dysentery, &c. J. F. McKenna. No. 134,017; Aug. 10; v. 277; p. 389.
Linoleum and composition floor-coverings. The Beaver Company. No. 133,578; Aug. 3; v. 277; p. 169.
Looms and parts thereof. Draper Corporation. No. 134,315; Aug. 24; v. 277; p. 781.
Lubricating-greases. D-A Lubricant Company. No. 133,625; Aug. 3; v. 277; p. 171.
Machinery. Keystone Driller Company. No. 134,179; Aug. 17; v. 277; p. 582.
Machinery. Meisel Press Manufacturing Company. No. 134,184; Aug. 17; v. 277; p. 582.
Machinery. Sullivan Machinery Company. No. 134,326; Aug. 24; v. 277; p. 781.
Machinery and parts thereof. Jabez Burns & Sons. No. 134,160; Aug. 17; v. 277; p. 581.
Machinery and parts thereof. Maschinenfabrik Schweiter A.-G. No. 134,180; Aug. 17; v. 277; p. 582.
Machinery and tools and parts thereof. Brown & Zortman Machinery Co. No. 133,594; Aug. 3; v. 277; p. 170.
Machinery, tools, and parts thereof. The Farm Equipment Co. No. 134,156; Aug. 17; v. 277; p. 581.
Machines and parts thereof. The Holt Manufacturing Company. No. 134,172; Aug. 17; v. 277; p. 581.
Machines and sadirons, Ironing and wringing. Blue Bird Manufacturing Company. No. 133,585; Aug. 3; v. 277; p. 170.
Machines, Calculating-. The American Calculating Machine Co. No. 134,150; Aug. 17; v. 277; p. 581.
Magazine, Monthly. Pierce-Arrow Motor Car Company. No. 134,065; Aug. 10; v. 277; p. 390.
Malt extracts, concentrated food powders, &c. A. E. Murdock. No. 134,416; Aug. 31; v. 277; p. 973.
Marble and stone. C. D. Jackson & Co. Nos. 134,388–97; Aug. 31; v. 277; pp. 972–3.
Meal, Calf-. International Sugar Feed Co. No. 133,998; Aug. 10; v. 277; p. 388.
Meal, Pig-. International Sugar Feed Co. No. 133,997; Aug. 10; v. 277; p. 388.
Measuring and cost-computing machines, Fabric-. The Measuregraph Company. No. 134,256; Aug. 24; v. 277; p. 778.
Measuring and scientific appliances. Tiffany Company. Nos. 134,289–90; Aug. 24; v. 277; p. 779.
Meat, Rabbit-. L. A. Scandrett. No. 134,079; Aug. 10; v. 277; p. 390.
Meats, Cold. Pollodoro Restaurant Co. No. 134,266; Aug. 24; v. 277; p. 778.
Medals and bronzes. Tiffany & Company. Nos. 134,446–7; Aug. 31; v. 277; p. 974.
Medicinal preparation for the treatment of affections of the throat and bronchial tubes. McKesson & Robbins. No. 133,733; Aug. 3; v. 277; p. 174.
Medicinal preparation for catarrh, asthma, and bronchial troubles. J. Gallagher. No. 133,667; Aug. 3; v. 277; p. 172.
Medicinal treatment for catarrhal conditions. Acme Chemical Mfg. Co. No. 134,331; Aug. 31; v. 277; p. 971.
Medicinal treatment for pyorrhea. The Educator Co. No. 134,430; Aug. 31; v. 277; p. 974.
Metals, Babbitt. Premium Metal & Packing Co. No. 134,188; Aug. 17; v. 277; p. 582.
Metal in the form of sheets, castings, and forgings, Non-ferrous. Baush Machine Tool Company. No. 133,577; Aug. 3; v. 277; p. 169.
Metal-polish. H. H. Arnheim. No. 133,898; Aug. 10; v. 277; p. 385.
Metal-polish. Bublitz & Hammond. No. 133,596; Aug. 3; v. 277; p. 170.
Metal-polish. The G. & H. Chemical Co. No. 133,931; Aug. 10; v. 277; p. 386.
Metal-polish. E. J. Palmer. No. 133,774; Aug. 3; v. 277; p. 176.
Metals and metal castings and forgings. Hall & Pickles. No. 133,691; Aug. 3; v. 277; p. 173.
Metals, Babbitt, bearing, and type. Great Western Smelting & Refining Company. No. 134,167; Aug. 17; v. 277; p. 581.
Middy-blouses. Straus, Royer & Strauss. No. 133,836; Aug. 3; v. 277; p. 178.
Milk, Preparations for the modification of. Horlick's Food Company. No. 133,994; Aug. 10; v. 277; p. 388.
Milk, Unsweetened evaporated. A. O. Andersen & Co. No. 134,211; Aug. 24; v. 277; p. 777.
Milling, turning, and the like, Metal-working machinery, Blades and cutters for. The Haynes Stellite Co. No. 134,138; Aug. 17; v. 277; p. 581.
Mills, Grist-. Diamond Grinder Company. No. 133,633; Aug. 3; v. 277; p. 171.
Mince-meat. Granger & Company. No. 133,983; Aug. 10; v. 277; p. 388.

Motors and engines, Internal-combustion aviation-. Societe des Moteurs Gnome et Rhone. No. 134,192; Aug. 17; v. 277; p. 582.
Oil and other edible oils, Olive-. Torres y Ribelles. No. 134,274; Aug. 24; v. 277; p. 779.
Oil-cloth. Ely & Walker Dry Goods Company. No. 133,642; Aug. 3; v. 277; p. 172.
Oil for paint and varnish building, Basic. J. F. Glidden. No. 133,974; Aug. 10; v. 277; p. 387.
Oil, Olive-. J. Bau. Nos. 134,340–2; Aug. 31; v. 277; p. 971.
Oil, Olive-. Musher & Company. No. 134,037; Aug. 10; v. 277; p. 389.
Oil, Olive-. J. Sanchiz de Quesada. No. 134,427; Aug. 31; v. 277; p. 974.
Oils and greases, Lubricating. J. P. Breen. No. 133,590; Aug. 3; v. 277; p. 170.
Oils and greases, Lubricating. T. A. Burch. No. 133,601; Aug. 3; v. 277; p. 170.
Oils and greases, Lubricating. R. P. Searle. Nos. 133,813–14; Aug. 3; v. 277; p. 177.
Oils and greases for engines, machinery, &c., Lubricating. Delaware Electric & Supply Co. No. 133,629; Aug. 3; v. 277; p. 171.
Oils, Cutting-. D. A. Stuart & Co. No. 134,443; Aug. 31; v. 277; p. 974.
Oils for guns, &c., Lubricating-. L. C. Scott. No. 134,080; Aug. 10; v. 277; p. 390.
Oils, Lubricating, &c. McCormick & Co. No. 133,732; Aug. 3; v. 277; p. 174.
Ointment for growth and darkening of eyebrows and eyelashes. G. W. Ross. No. 134,434; Aug. 31; v. 277; p. 974.
Ointment for use in the treatment of la grippe, colds, &c. S. Schlup. No. 133,810; Aug. 3; v. 277; p. 177.
Oleomargarin. American Nut Butter Company. No. 133,893; Aug. 10; v. 277; p. 385.
Oleomargarin. Kellogg Products, Inc. No. 134,006; Aug. 10; v. 277; p. 388.
Oleomargarin. Glidden Nut Butter Company. Nos. 134,239–40; Aug. 24; v. 277; p. 777.
Oleomargarin. The Northern Butterine Company. No. 134,045; Aug. 10; v. 277; p. 389.
Oleomargarin. Nut Grove Butter Company. No. 134,047; Aug. 10; v. 277; p. 289.
Oleomargarin. Palmine Company. No. 134,261; Aug. 24; v. 277; p. 778.
Oleomargarin. Wonder-Nut Food Products Company. Nos. 134,465–7; Aug. 31; v. 277; p. 975.
Onions, potatoes, turnips, carrots, Fresh. S. Rosenblum. No. 134,433; Aug. 31; v. 277; p. 974.
Optical goods. J. C. Kahan. No. 134,178; Aug. 17; v. 277; p. 582.
Oranges, Fresh. A. L. Woodill. Nos. 134,143–4; Aug. 10; v. 277; p. 392.
Overalls. The Free Land Overall Manufacturing Co. No. 133,663; Aug. 3; v. 277; p. 172.
Overalls, unionalls, and jumpers. H. D. Overall Co. No. 133,772; Aug. 3; v. 277; p. 176.
Overalls. The Pioneer Overall Company. No. 133,781; Aug. 3; v. 277; p. 176.
Overcoats, Men's and boys'. Wyman Partridge & Co. No. 133,881; Aug. 3; v. 277; p. 179.
Oysters canned or otherwise put up, Fresh. L. P. Maggioni Company. Nos. 134,253–4; Aug. 24; v. 277; p. 778.
Packing, Machinery-. Eureka Packing Co., Sales Dept. No. 133,647; Aug. 3; v. 277; p. 172.
Packings, Asbestos composition. Goetze Gasket & Packing Company. No. 133,887; Aug. 3; v. 277; p. 179.
Paint, enamels, colors in oil, and varnish. Rex Paint Corporation. No. 133,795; Aug. 3; v. 277; p. 176.
Paint for concrete, cement, bricks, tile, &c. The Goheen Corporation. No. 133,679; Aug. 3; v. 277; p. 173.
Paint for galvanizing iron. The Goheen Corporation. No. 133,677; Aug. 3; v. 277; p. 173.
Paint for iron and steel. The Goheen Corporation. Nos. 133,675–6; Aug. 3; v. 277; p. 173.
Paint for wood, Fireproof. The Goheen Corporation. No. 133,680; Aug. 3; v. 277; p. 173.
Paint, Red-lead. The Goheen Corporation. No. 133,678; Aug. 3; v. 277; p. 173.
Paints, House and barn. The E. C. Harley Company. No. 133,696; Aug. 3; v. 277; p. 173.
Pajamas. Berkshire Shirt Co. No. 133,581; Aug. 3; v. 277; p. 170.
Paper and cloth strips or tapes in rolls and strips and tape-moistening machines. New Products Company. No. 134,042; Aug. 10; v. 277; p. 389.
Paper and mailing-envelops, Writing-. Whiting Paper Company. No. 134,135; Aug. 10; v. 277; p. 392.
Paper and paper products. The F. C. Traver Paper Co. No. 134,104; Aug. 10; v. 277; p. 391.
Paper bags. J. Single. Nos. 133,823–4; Aug. 3; v. 277; p. 177.
Paper bags. Victory Bag & Paper Co. No. 133,861; Aug. 3; v. 277; p. 178.
Paper bags. Wortendyke Manufacturing Company. No. 133,879; Aug. 3; v. 277; p. 179.
Paper, Cover-. The Whitaker Paper Company. No. 134,130; Aug. 10; v. 277; p. 392.
Paper drinking-cups, Sanitary. C. Rosenthal. No. 133,804; Aug. 3; v. 277; p. 177.
Paper, Filter-. H. Reeve Angel & Co. No. 134,072; Aug. 10; v. 277; p. 390.
Paper patterns for men's clothes. R. J. Burgan. No. 134,224; Aug. 24; v. 277; p. 777.
Paper products. Brown Company. No. 133,915; Aug. 10; v. 277; p. 385.
Paper window-shades. Talbert-Whitmore Company. No. 133,845; Aug. 3; v. 277; p. 178.
Paper, Wrapping-. General Paper and Cordage Company. No. 133,972; Aug. 10; v. 277; p. 387.
Paper, Writing-. Fox River Paper Company. No. 134,316; Aug. 24; v. 277; p. 781.
Paper, Writing and printing. American Writing Paper Company. Nos. 133,894–6; Aug. 10; v. 277; p. 385.
Papers, Wrapping and printing. F. C. Strype. No. 134,096; Aug. 10; v. 277; p. 391.
Parasols and umbrellas. J. A. Migel, Inc. No. 133,749; Aug. 3; v. 277; p. 175.
Paste for shoe-dressing. F. J. Witt. No. 134,141; Aug. 10; v. 277; p. 392.
Paste, mucilage, Library-. R. T. Furman. No. 134,237; Aug. 24; v. 277; p. 778.
Pastils, Throat-. McKesson & Robbins. No. 133,734; Aug. 3; v. 277; p. 174.
Patches, Self-vulcanizing. M. Straus. No. 133,837; Aug. 3; v. 277; p. 178.
Peanut-butter. Woldert Peanut Products Co. No. 134,142; Aug. 10; v. 277; p. 392.
Peanut-butter and cereal coffee. Johnson Educator Food Co. No. 134,000; Aug. 10; v. 277; p. 388.
Peanuts and peanut-butter. Clarke Bros. Stores. No. 133,934; Aug. 10; v. 277; p. 386.
Peanuts, peanut-butter, coffee, tea, cocoa, Salted. G. C. Browne. No. 134,223; Aug. 24; v. 277; p. 777.
Pearls. Goldsmith Brothers Smelting and Refining Company. No. 133,975; Aug. 10; v. 277; p. 387.
Pearls, Artificial. Bulova-Henshel Co. No. 133,919; Aug. 10; v. 277; p. 386.
Petroleum products. J. B. Havre. No. 133,700; Aug. 3; v. 277; p. 173.
Petticoats and bloomers. Brown & Singerman. No. 133,593; Aug. 3; v. 277; p. 170.
Phonographs. The Baldwin Company. No. 133,903; Aug. 10; v. 277; p. 389.
Photographic dry plates and films. G. Cramer Dry Plate Company. No. 134,312; Aug. 24; v. 277; p. 781.
Photographic retouching-screens. I. Boysen. No. 133,589; Aug. 3; v. 277; p. 170.
Piano-players, Vacuum-creating apparatus for. Piano Motors Corporation. No. 133,779; Aug. 3; v. 277; p. 176.
Pianos. B. Shoninger Co. No. 134,088; Aug. 10; v. 277; p. 391.
Picture films, Motion-. International Film Service Co. No. 133,707; Aug. 3; v. 277; p. 174.
Picture films, Motion-. Republic Distributing Corporation. No. 133,793; Aug. 3; v. 277; p. 176.
Picture films, Motion-. Similec Film Company. No. 134,282; Aug. 24; v. 277; p. 779.
Picture films, Moving-. The Bray Pictures Corporation. No. 134,221; Aug. 24; v. 277; p. 777.
Picture films, Moving-. Cosmopolitan Film Company. No. 133,622; Aug. 3; v. 277; p. 171.
Picture sundries, Motion-. Movette, Incorporated. No. 133,755; Aug. 3; v. 277; p. 175.
Picture-viewing machines, Coin-operated moving-. J. F. Meyer. No. 133,746; Aug. 3; v. 277; p. 175.
Pile fabrics of all kinds in the piece. Sidney Blumenthal & Co. No. 134,304; Aug. 24; v. 277; p. 781.
Pills, Liver-. I. H. Taylor. No. 133,846; Aug. 3; v. 277; p. 178.
Pipes, pipe-couplings, reducers, unions, and elbows, Metal. T. R. E. Miller. No. 134,185; Aug. 17; v. 277; p. 582.
Piston-rings. E. Wilson. No. 133,875; Aug. 3; v. 277; p. 179.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 133,862; Aug. 3; v. 277; p. 178.
Plows. E. E. Sowell. No. 133,826; Aug. 3; v. 277; p. 177.
Plumbing and steam-fitting supplies. Michigan Lubricator Company. No. 133,747; Aug. 3; v. 277; p. 175.
Plumbing supplies. The Monument Pottery Co. No. 133,753; Aug. 3; v. 277; p. 175.
Plums, Fresh. A. R. Carney. No. 133,928; Aug. 10; v. 277; p. 386.
Polish for piano, furniture, and other painted or varnished surfaces, Liquid. J. A. Selby. No. 133,817; Aug. 3; v. 277; p. 177.
Polishing and wiping cloth. Regal Polishing Cloth Co. No. 133,788; Aug. 3; v. 277; p. 176.
Polishing metal and glass, Preparation for. F. E. Andrews. No. 133,897; Aug. 10; v. 277; p. 385.
Potato chips, doughnuts, zwieback. G. H. Becker. No. 134,219; Aug. 24; v. 277; p. 777.
Potatoes, Sweet. Mutual Service Corporation. No. 134,417; Aug. 31; v. 277; p. 973.
Powder for cleaning white shoes and clothing. J. A. Selby. No. 133,816. Aug. 3; v. 277; p. 177.
Powders, Insect-. McCormick Co. No. 134,319; Aug. 24; v. 277; p. 781.
Precious metal, Articles mounted in. H. Wiener. No. 133,872; Aug. 3; v. 277; p. 179.
Preparation, Powder to be used as a washing. The Mills Brothers Company. No. 134,031; Aug. 10; v. 277; p. 389.

Preparation in cake form for polishing metals. The Hanson & Van Winkle Company. Nos. 133,986–7; Aug. 10; v. 277; p. 388.
Preparation used for application to a typewriter-platen to prevent slipping. Cant-Slip Co. No. 133,027; Aug. 10; v. 277; p. 386.
Printing, &c., tickets, Machines for. The National Cash Register Company. No. 134,258; Aug. 24; v. 277; p. 778.
Prints and publications. Medici Society—American Branch, Inc. No. 134,026; Aug. 10; v. 277; p. 389.
Publication, Daily. News Syndicate Co. No. 134,043; Aug. 10; v. 277; p. 389.
Publication, Monthly. The Barnes-Ross Company. No. 134,330; Aug. 31; v. 277; p. 971.
Publication, Monthly. Michigan Lubricator Company. No. 134,029; Aug. 10; v. 277; p. 389.
Publication, Monthly. Wirthlin-Mann Co. No. 134,463; Aug. 31; v. 277; p. 975.
Publication, Printed. General Motors Export Company. No. 133,971; Aug. 10; v. 277; p. 387.
Pudding-powder. W. J. Fikes. No. 134,360; Aug. 31; v. 277; p. 972.
Pudding, Prepared. H. J. Buehler. No. 133,918; Aug. 10; v. 277; p. 386.
Pulleys. Williams Patent Crusher & Pulverizer Co. No. 134,202; Aug. 17; v. 277; p. 582.
Pumps, condensers, and engines. Dow Pump and Diesel Engine Company. No. 133,635; Aug. 3; v. 277; p. 171.
Pumps, liquid-pumps, and blowers, Vacuum and pressure air-. Crescent Pump Company. No. 133,623; Aug. 3; v. 277; p. 171.
Pumps, Vacuum suction-. American Device Manufacturing Company. No. 134,151; Aug. 17; v. 277; p. 581.
Radiators, Covers for heating-. The Carey Company. No. 134,345; Aug. 31; v. 277; p. 971.
Razor-blades. Simmons Hardware Company. No. 133,820; Aug. 3; v. 277; p. 177.
Razor blades, Safety-. Simmons Hardware Company. No. 134,191; Aug. 17; v. 277; p. 582.
Razors. Boker Cutlery & Hardware Company. No. 133,575; Aug. 3; v. 277; p. 169.
Razors and blades, Safety-. Gillette Safety Razor Company. No. 134,317; Aug. 24; v. 277; p. 781.
Receptacles. Sealright Company. No. 133,812; Aug. 3; v. 277; p. 177.
Refrigerating-machines. Automatic Carbonic Machine Company. No. 133,570; Aug. 3; v. 277; p. 169.
Refrigerating-machines. Blue Bird Manufacturing Company. No. 133,584; Aug. 3; v. 277; p. 170.
Ribbons in the piece. Johnson, Cowdin and Co. No. 134,001; Aug. 10; v. 277; p. 388.
Rice. W. T. Wellsch and Co., Inc. Nos. 134,460–2; Aug. 31; v. 277; p. 975.
Riding-habits, Ladies'. P. Nardi. No. 133,776; Aug. 3; v. 277; p. 176.
Rifles, shotguns, pistols, &c., Military and sporting. The Remington Arms Union Metallic Cartridge Co. No. 133,792; Aug. 3; v. 277; p. 176.
Rings, pins, and bracelets, Finger-. Uncas Manufacturing Company. No. 134,110; Aug. 10; v. 277; p. 391.
Roofing and shingles composition. Superior Builders Supply Co. No. 134,097; Aug. 10; v. 277; p. 391.
Rivet-sets, chisel-blanks, reamers, and drills. W. E. Nagle & Son. No. 133,758; Aug. 3; v. 277; p. 175.
Rope yarns, cotton twines and cordage. Eagle Cotton Mills Co. Nos. 133,638–9; Aug. 3; v. 277; p. 171.
Rubber and canvas automobile-casings. Boone Tire & Rubber Company. No. 133,587; Aug. 3; v. 277; p. 170.
Rubber and leather boots and shoes. American-National Shoe & Leather Corporation. No. 133,564; Aug. 3; v. 277; p. 169.
Rubber battery-jars. The B. F. Goodrich Company. No. 133,681; Aug. 3; v. 277; p. 173.
Rubber battery-jars. The B. F. Goodrich Company. Nos. 133,976–7; Aug. 10; v. 277; p. 387.
Rubber belting. New York Belting and Packing Company. No. 133,766; Aug. 3; v. 277; p. 175.
Rubber, Canned adhesive. F. F. Brinker. No. 134,222; Aug. 24; v. 277; p. 777.
Rubber-compound floor-covering. United States Rubber Company. No. 133,856; Aug. 3; v. 277; p. 178.
Rubber tire casings and tubes, belting, &c. Achilles Rubber and Tire Company, Inc. No. 133,554; Aug. 3; v. 277; p. 169.
Rugs, Rag and grass. M. Feldman. No. 133,653; Aug. 3; v. 277; p. 172.
Salad-dressing. R. C. Williams & Company. No. 134,139; Aug. 10; v. 277; p. 392.
Salad-dressing, peanut-butter, and salted peanuts. C. F. Blanke Tea & Coffee Company. No. 133,582; Aug. 3; v. 277; p. 170.
Salves and ointments for treatment of the human skin. P. Fuchs. No. 134,363; Aug. 31; v. 277; p. 972.
Sardines. The Oversea Export Co. No. 134,051; Aug. 10; v. 277; p. 390.
Sauces for seasoning foods. S. Nagano. No. 134,038; Aug. 10; v. 277; p. 389.
Saw-sets. N. O Hedman. No. 134,169; Aug. 17; v. 277; p. 581.
Saws, Drag-. W. H. Worden Company. No. 134,205; Aug. 17; v. 277; p. 582.
Scales, Weighing-. Mason, Davis & Company. No. 134,255; Aug. 24; v. 277; p. 778.
Scissors and shears. The Acme Shear Company. Nos. 133,555–6; Aug. 3; v. 277; p. 169.
Scoops, Sink-. S. Berger. No. 134,153; Aug. 17; v. 277; p. 581.
Seeds, Field-. Southwest Flour & Feed Company. No. 134,439; Aug. 31; v. 277; p. 974.
Shafting, Flexible. N. A. Strand & Co. No. 133,835; Aug. 3; v. 277; p. 178.
Sheets and pillow-cases. The Fair. No. 133,650; Aug. 3; v. 277; p. 172.
Shirts, Men's dress-. M. Menzin. No. 133,743; Aug. 3; v. 277; p. 175.
Shirts, Work-. Reliance Manufacturing Company. No. 133,791; Aug. 3; v. 277; p. 176.
Shoe-polish. Griffin Mfg. Co. No. 133,688; Aug. 3; v. 277; p. 173.
Shoe-polish. Ivory Polish Company. No. 133,708; Aug. 3; v. 277; p. 174.
Shoe-polishes. S. M. Bixby & Co. No. 134,303; Aug. 24; v. 277; p. 781.
Shoes and Juliettes, Leather. Lunn & Sweet Co. No. 133,728; Aug. 3; v. 277; p. 174.
Shoes and slippers of leather, &c. A. J. Bates & Company. No. 133,576; Aug. 3; v. 277; p. 169.
Shoes, Bindings, pipings, &c., of leather for use in the manufacture of. United Stay Company. No. 133,855; Aug. 3; v. 277; p. 178.
Shoes, Children's and infants' leather. Ferris Shoe Company. No. 133,654; Aug. 3; v. 277; p. 172.
Shoes, Composition for the treatment of white. S. M. Bixby & Co. No. 134,302; Aug. 24; v. 277; p. 781.
Shoes, Leather. Fritz-Richards Company. No. 134,364; Aug. 31; v. 277; p. 972.
Shoes, Leather. O. Gentile. No. 133,670; Aug. 3; v. 277; p. 172.
Shoes, Leather. Otto Meyer and Co. No. 133,771; Aug. 3; v. 277; p. 176.
Shoes, Leather. W. H. Tomlinson & Co. No. 133,849; Aug. 3; v. 277; p. 178.
Shortening for cooking purposes, &c. Interstate Cotton Oil Refining Company. No. 133,999; Aug. 10; v. 277; p 388.
Shutters for radiators of motor-vehicles. Auto Metal Parts Company. No. 134,337; Aug. 31; v. 277; p. 971.
Silk and cotton fabrics, Light-weight woven. Louis Roessel & Co. No. 134,073; Aug. 10; v. 277; p. 390.
Silk and silk-mixture fabrics. Cheney Brothers. No. 133,932; Aug. 10; v. 277; p. 386.
Silk piece goods. Empire Silk Company. No. 133,643; Aug. 3; v. 277; p. 172.
Silk threads and yarns, Natural and artificial. The H. K. H. Silk Co. of New York. Nos. 134,379–80; Aug. 31; v. 277; p. 972.
Silks in pieces, Plain and printed broad. Friedman & Moss. No. 133,666; Aug. 3; v. 277; p. 172.
Silks in pieces, Plain and printed, broad. Friedman & Moss. No. 133,968; Aug. 10; v. 277; p. 387.
Silks in the piece, Broad. W. M. Alford & Sons. No. 133,559; Aug. 3; v. 277; p. 169.
Silver, gold, and nickel polish. F. G. Stewart. No. 134,094; Aug. 10; v. 277; p. 391.
Silverware polish. United Drug Company. No. 134,111; Aug. 10; v. 277; p. 391.
Skins for stoppered bottles, Capping-. Julius Schmid, Incorporated. No. 134,437; Aug. 31; v. 277; p. 974.
Slippers. Pierre E. Giroux & Co. No. 133,780; Aug. 3; v. 277; p. 176.
Smocks and aprons. B. H. Plummer. No. 133,783; Aug. 3; v. 277; p. 176.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 133,651; Aug. 3; v. 277; p. 172.
Snap-fasteners. "Snaplok," Inc. No. 133,825; Aug. 3; v. 277; p. 177.
Snap-fasteners. Waldes & Co. No. 134,455; Aug. 31; v. 277; p. 974.
Soap. G. T. Georgis. No. 133,671; Aug. 3; v. 277; p. 172.
Soap in bars, Mechanics'. Cla-Loid Mfg. Co. No. 133,613; Aug. 3; v. 277; p. 171.
Soap, Laundry. West Coast Soap Co. No. 134,123; Aug. 10; v. 277; p. 322.
Soap, Yellow laundry. The Federal Soap Company. No. 133,652; Aug. 3; v. 277; p. 172.
Soaps. California Soap Company. No. 133,603; Aug. 3; v. 277; p. 170.
Soaps. C. G. Moller. No. 133,751; Aug. 3; v. 277; p. 175.
Soaps. C. G. Moller. No. 134,032; Aug. 10; v. 277; p. 389.
Soaps. Red "C" Oil Manufacturing Co. No. 133,787; Aug. 3; v. 277; p. 176.
Soaps and soap powders. Grain Soaps Corporation. No. 133,982; Aug. 10; v. 277; p. 387.
Soaps and washing-powders. A. Hoefner & Sons. No. 134,381; Aug. 31; v. 277; p. 972.
Soaps, cleansers, and metal-polishes. Frampton Chemical Co. No. 133,967; Aug. 10; v. 277; p. 387.
Soda-fountains and soda-water carbonators. The Russ Manufacturing Company. No. 134,190; Aug. 17; v. 277; p. 582.
Soda-water, Carbonated. Universal Beverage Company. No. 133,852; Aug. 3; v. 277; p. 178.
Soldering compounds in powder form. R. S. Churchill. No. 134,162; Aug. 17; v. 277; p. 581.

Sound-reproducing machines, Electrical-lighting attachments for. Standard Accessory Corporation. No. 133,829; Aug. 3; v. 277; p. 177.
Soups. American "E" Products Company. Nos. 134,209–10; Aug. 24; v. 277; p. 777.
Spaghetti, macaroni, vermicelli, and egg-noodle. Fortune Products Company. Nos. 133,965–6; Aug. 10; v. 277; p. 387.
Spark boosters or intensifiers. P. E. Ramsey. No. 133,784; Aug. 3; v. 277; p. 176.
Spark-plugs. Ford Mica Company. No. 133,657; Aug. 3; v. 277; p. 172.
Spark-plugs. Pep Spark Plug Company. No. 133,778; Aug. 3; v. 277; p. 176.
Spraying devices. W. N. Matthews and Brother. No. 134,181; Aug. 17; v. 277; p. 582.
Springs and spring-plates and leaves for such springs, Vehicle-. Higgins Spring & Axle Company. No. 134,378; Aug. 31; v. 277; p. 972.
Stays, straps, &c., for use in the manufacture of harness, trunks, and bags. United Stay Company. No. 133,854; Aug. 3; v. 277; p. 178.
Steel bars, rods, billets, blooms, forgings, &c. Crucible Steel Company of America. No. 134,164; Aug. 17; v. 277; p. 581.
Steel, Cold-drawn. Wyckoff Drawn Steel Co. No. 134,206; Aug. 17; v. 277; p. 582.
Steel, Tool-. Edgar T. Ward's Sons Co. No. 134,203; Aug. 17; v. 277; p. 582.
Stove and shoe polishes, stove and shoe polishing outfits, and shoe-cleaner. W. R. Hollingshead Co. No. 133,993; Aug. 10; v. 277; p. 388.
Straps, Wrist-watch. M. Hirsch. No. 133,702; Aug. 3; v. 277; p. 173.
Sugar, American wheat-flour, tea. Lamborn & Co. No. 134,406; Aug. 31; v. 277; p. 973.
Sugar. The Tropics Corporation. No. 134,106; Aug. 10; v. 277; p. 391.
Sugar, Maple-. L. L. Bowles. No. 134,220; Aug. 24; v. 277; p. 777.
Suits and overcoats, Men's outer. C. D. Levin. No. 133,719; Aug. 3; v. 277; p. 174.
Suits, coats, waists, dresses, and skirts, Ladies', misses', and children's. J. Eckstein. No. 133,640; Aug. 3; v. 277; p. 171.
Sweater-coats. Watts, Ritter & Company. No. 133,865; Aug. 3; v. 277; p. 178.
Swingletrees, &c., for vehicles and swingletrees for farm implements. The Farm Equipment Co. No. 134,358; Aug. 31; v. 277; p. 971.
Syrup, Blended cane, and maple table-. Vermont Maple Syrup Company. No. 134,116; Aug. 10; v. 277; p. 391.
Syrup, Cane-. Malone & Hyde. No. 134,386; Aug. 31; v. 277; p. 972.
Syrup, Cane and maple. The F. N. Johnson Maple Syrup Company. No. 134,002; Aug. 10; v. 277; p. 388.
Syrup for baking purposes, Food-. O. E. Maurer. No. 134,023; Aug. 10; v. 277; p. 389.
Syrup for making non-alcoholic, non-cereal beverages. C. A. Fowler. No. 133,660; Aug. 3; v. 277; p. 172.
Syrup for soda-water beverages, Non-alcoholic non-cereal maltless. Keystone Fruit Products Company. No. 134,007; Aug. 10; v. 277; p. 388.
Syrup, Malt. Northwestern Brewers Supply Co. No. 133,768; Aug. 3; v. 277; p. 175.
Syrup, Maple table-. Vermont Maple Syrup Company. No. 133,859; Aug. 3; v. 277; p. 178.
Syrup used in the preparation of beverages. The Spearmintx Co. No. 133,827; Aug. 3; v. 277; p. 177.
Syrup used for food purposes, Malt. Eforose Sugar Co. No. 133,959; Aug. 10; v. 277; p. 387.
Syrups, Cereal and sugar. The Nniomoline Company. No. 134,046; Aug. 10; v. 277; p. 389.
Tablets and papers and envelops, Writing. The Wynne Paper Co. No. 134,146; Aug. 10; v. 277; p. 392.
Tablets, envelops, &c., Writing-. Osborn Paper Co. No. 134,424; Aug. 31; v. 277; p. 973.
Tablets for increasing the efficiency of gasolene, Chemical. I. R. Neher. No. 134,420; Aug. 31; v. 277; p. 973.
Talking-machines. J. H. Weber. No. 134,121; Aug. 10; v. 277; p. 392.
Talking-machines. Vitanola Talking Machine Co. No. 134,117; Aug. 10; v. 277; p. 392.
Tank-balls. Essex Rubber Company. No. 134,166; Aug. 17; v. 277; p. 581.
Tanks. Riverside Boiler Works. No. 133,798; Aug. 3; v. 277; p. 176.
Tanks, Wooden. J. Armstrong. No. 133,569; Aug. 3; v. 277; p. 169.
Taps and valves of metal for general use with fluids. J. Jackson, Limited. No. 134,175; Aug. 17; v. 277; p. 581.
Tea. Chase & Sanborn. No. 134,226; Aug. 24; v. 277; p. 777.
Tea. H. A. Jones. No. 134,248; Aug. 24; v. 277; p. 778.
Tea. Saunders & Chase. No. 134,347; Aug. 31; v. 277; p. 971.
Teas. B. B. de Montmorency. No. 133,908; Aug. 10; v. 277; p. 385.
Telegraph and telephone apparatus, Wireless. De Forest Radio Telephone and Telegraph Company. Nos. 134,313–4; Aug. 24; v. 277; p. 781.
Telephone sets. Devices for transmitting communication into transmitter of. M. Weil. No. 134,122; Aug. 10; v. 277; p. 392.
Tents. J. H. Wittmann. No. 134,464; Aug. 31; v. 277; p. 975.
Textile fabric in the piece. New Hampton Mills. No. 134,041; Aug. 10; v. 277; p. 389.
Tire-pumps. The W. H. Howell Company. No. 134,318; Aug. 24; v. 277; p. 781.
Tire pumps and grease-guns, Automobile-. Sidel-Rattner Manufacturing Company. No. 133,819; Aug. 3; v. 277; p. 177.
Tire tubes, Patches for wheel-. Hassebrock Brothers. No. 133,698; Aug. 3; v. 277; p. 173.
Tires, Bicycle-. Kaufmann Department Stores. No. 133,711; Aug. 3; v. 277; p. 174.
Tires, Elastic vehicle-. The Norwalk Tire and Rubber Company. No. 133,769; Aug. 3; v. 277; p. 175.
Tires, inner tubes, Rubber. Automobile Owners Tire Corporation. No. 133,571; Aug. 3; v. 277; p. 169.
Tires, Rubber. M. A. Schwartz. No. 133,811; Aug. 3; v. 277; p. 177.
Tires, Rubber vehicle-. Hood Tire Co. No. 134,384; Aug. 31; v. 277; p. 972.
Tires, tubes, and tire-repair patches or reinforcements. Hood Rubber Company. No. 134,383; Aug. 31; v. 277; p. 972.
Tires, Vehicle-. E. Miller. No. 133,750; Aug. 3; v. 277; p. 175.
Trucks, Light motor-. Reo Motor Car Company. No. 134,322; Aug. 24; v. 277; p. 781.
Tobacco and cigarettes. American Tobacco Company. No. 133,565; Aug. 3; v. 277; p. 169.
Tobacco and cigarettes, Smoking and chewing. Frishmuth Bro. & Company. No. 133,665; Aug. 3; v. 277; p. 172.
Toilet preparations. Northam Warren Corporation. No. 134,458; Aug. 31; v. 277; p. 975.
Toilet sets. United Drug Company. No. 134,112; Aug. 10; v. 277; p. 391.
Tonic for nervousness, indigestion, and general debility. Meritone Medicine Co. No. 133,744; Aug. 3; v. 277; p. 175.
Tools. The Greb Company. No. 134,157; Aug. 17; v. 277; p. 581.
Tools. R. L. Johnson. No. 134,176; Aug. 17; v. 277; p. 581.
Tools. The Warren Tool and Forge Company. No. 134,201; Aug. 17; v. 277; p. 582.
Tools, apparatus and tools for metal-working. Maschinenfabrik Schweiter A.-G. No. 133,740; Aug. 3; v. 277; p. 175.
Tractor accessories. Hughes & Curren Co. No. 134,173; Aug. 17; v. 277; p. 581.
Tractors. American Tractor Corporation. No. 133,566; Aug. 3; v. 277; p. 169.
Twine. Zellerbach Paper Company. No. 133,884; Aug. 3; v. 277; p. 179.
Typewriter-ribbons and carbon-paper. Galveston Typewriter Exchange. No. 133,969; Aug. 10; v. 277; p. 387.
Underwear. Luxite Silk Products Co. No. 133,729; Aug. 3; v. 277; p. 174.
Union-suits, Men's knitted. Cooper, Coate & Casey Dry Goods Co. No. 133,621; Aug. 3; v. 277; p. 171.
Valves, Flush-tank outlet-. The Korket Company. No. 133,714; Aug. 3; v. 277; p. 174.
Varnish, paints, lacquers. Young and Klots. No. 133,883; Aug. 3; v. 277; p. 179.
Vegetables, Fresh. E. M. Sheehan. No. 134,087; Aug. 10; v. 277; p. 391.
Vehicles. Western Wheeled Scraper Company. No. 133,869; Aug. 3; v. 277; p. 179.
Venereal diseases, Prophylactic for. The B & R Laboratories & Mfg. Co. No. 133,572; Aug. 3; v. 277; p. 169.
Vinegar. Dixie Fruit Products Corporation. No. 134,232; Aug. 24; v. 277; p. 777.
Voiles and sateen in the piece. Henry Glass & Co. Nos. 133,668–9; Aug. 3; v. 277; p. 172.
Waists for outer wear, Ladies'. Shapiro Bros. & Mirsky. No. 133,818; Aug. 3; v. 277; p. 177.
Waists, Ladies'. Reuben and Zukerman. No. 133,794; Aug. 3; v. 277; p. 176.
Washboilers for laundry purposes. Sargoy Bros. No. 133,808; Aug. 3; v. 277; p. 177.
Washing compound, Hand-. A. J. Leonard. No. 134,010; Aug. 10; v. 277; p. 388.
Washing machine, Clothes-. The Delite Manufacturing Co. No. 133,630; Aug. 3; v. 277; p. 171.
Washing machine, Clothes-. Nineteen Hundred Washer Company, The. No. 133,767; Aug. 3; v. 277; p. 175.
Washing machines, Clothes-. Rochester Washing Machine Corp. No. 133,800; Aug. 3; v. 277; p. 176.
Washing machines, Laundry-. Albaugh-Dover Company. No. 133,560; Aug. 3; v. 277; p. 169.
Washing-powder. H. C. Sutton. No. 133,842; Aug. 3; v. 277; p. 178.
Washing preparation. R. J. Poska. No. 134,064; Aug. 10; v. 277; p. 390.
Watch and clock parts. Henry Zimmern & Company. No. 134,147; Aug. 10; v. 277; p. 392.
Watches. Lorraine Watch Co. No. 134,014; Aug. 10; v. 277; p. 388.

Watches. A. W. Sproehule. No. 134,324; Aug. 24; v. 277; p. 781.
Waterers and coops, Chicken. Harper & McIntire Company. No. 134,372; Aug. 31; v. 277; p. 972.
Waterproof and non-waterproof coats, hats, &c. J. T. Caradine. No. 134,344; Aug. 31; v. 277; p. 971.
Waxes, Insulating. Smith & Nichols. No. 134,091; Aug. 10; v. 277; p. 391.
Water-motors. Victor Water Motor Corporation. No. 133,860; Aug. 3; v. 277; p. 178.
Waterproof clothing. National Water-Proofing Company. No. 133,764; Aug. 3; v. 277; p. 175.
Webs, Elastic. Faire Bros. & Co. No. 133,961; Aug. 10; v. 277; p. 387.
Wheels, Grinding and polishing. Abrasive Company. No. 133,888; Aug. 10; v. 277; p. 385.
Wind-shield or glass clear, Chemical compound for keeping. Cleroline Chemical Co. No. 133,618; Aug. 3; v. 277; p. 171.
Wire-cloth and fencing of iron wire. Clinton Wire Cloth Company. No. 133,616; Aug. 3; v. 277; p. 171.
Woolen cloth for tailoring purposes. Rosenberg Bros. No. 134,075; Aug. 10; v. 277; p. 390
Woolen piece goods. Forstmann & Huffmann Co. No. 133,658; Aug. 3; v. 277; p. 172.
Woven, knitted, netted, &c., fabrics in the piece. Cheney Brothers. Nos. 134,305–8; Aug. 24; v. 277; p. 781.
Yarn. C. D. Newell. No. 134,421; Aug. 31; v. 277; p. 973.
Yarn of worsted, wool, silk, &c. Nonotuck Silk Company. No. 134,422; Aug. 31; v. 277; p. 973.

ALPHABETICAL LIST OF LABELS.

"A Little Goes a Long Way." (For Preparation for Treatment of the Hair.) H. Evans. No. 21,996; Aug. 24; v. 277; p. 785.
"A Ruler." (For Insect-Destroyer.) William H. Dechant. No. 22,054; Aug. 31; v. 277; p. 977.
"Acqua Di Chinina Magone." (For a Hair-Tonic.) R. Julian. No. 21,972; Aug. 17; v. 277; p. 583.
"All-Size-Cap." (For Cloth Caps.) Fine & Levy. No. 21,997; Aug. 24; v. 277; p. 785.
"Alp." (For Men's Drawers.) A. L. Pierson Mfg. Co. No. 21,953; Aug. 3; v. 277; p. 180.
"Amebacide Compounds." (For Remedy for Pyorrhea.) E. S. Julian. No. 21,945; Aug. 3; v. 277; p. 180.
"American Disinfectant." (For American Disinfectant.) P. A. Mandabach. No. 22,015; Aug. 24; v. 277; p. 785.
"Antiplasma Label." (For Malarial Medicine.) Malarial Specific Company, Inc. No. 22,014; Aug. 24; v. 277; p. 785.
"Argonne Cavity Fluid." (For Cavity Fluid.) H. A. Slater. No. 21,980; Aug. 17; v. 277; p. 583.
"Argonne Embalming Fluid." (For Embalming Fluid.) H. A. Slater. No. 21,981; Aug. 17; v. 277; p. 583.
"B & G Manufacturers & Distributors Wire and Sheet Products." (For Metal Wire and Sheet-Metal Products.) B & G Wire Products Co. No. 22,042; Aug. 31; v. 277; p. 977.
"Bears Fluff Powder." (For Fluff-Powder.) Bear Brothers Co. No. 21,957; Aug. 10; v. 277; p. 393.
"Big '6' Chocolate." (For Vanilla Sweet Chocolate.) Pennsylvania Chocolate Company. No. 22,026; Aug. 24; v. 277; p. 785.
"Blue Bell Ginger Ale." (For a Ginger-Ale Beverage.) Lehanon Springs Water Co., Inc. No. 22,066; Aug. 31; v. 277; p. 977.
"Bringing Up Father Game." (For a Game-Board.) Embee Distributing Company. No. 22,055; Aug. 31; v. 277; p. 977.
"Brown's Indian Root Hair Tonic." (For a Liquid Hair-Tonic.) Anthony Brown. No. 22,043; Aug. 31; v. 277; p. 977.
"Bully Boy Cordial Apricot Flavor." (For a Non-Alcoholic Drink.) Southern Food Products Co. No. 22,031; Aug. 24; v. 277; p. 786.
"Burgess Uni-Cels." (For Electric Batteries.) Burgess Battery Company. No. 22,045; Aug. 31; v. 277; p. 977.
"Burgess Uniplex Battery." (For Electric Batteries.) Burgess Battery Company. No. 21,982; Aug. 3; v. 277; p. 180.
"Campfire." (For Marshmallows.) The Campfire Company. No. 22,049; Aug. 31; v. 277; p. 977.
"Candy Craft Candies for Kiddies." (For Candies.) The Candy Craft Shops, Inc. No. 22,046; Aug. 31; v. 277; p. 977.
"Candy Craft Pocket Candies." (For Fruit Tablets.) The Fruit Craft Shops, Inc. No. 22,047; Aug. 31; v. 277; p. 977.
"Cherry Tonic." (For a System-Tonic.) The Cherry Tone Medicine Co. Inc. No. 21,993; Aug. 24; v. 277; p. 785.
"Chocolate Covered Cherries." (For Chocolate-Covered Cherries.) Milwaukee Paper Box Company. No. 21,949; Aug. 3; v. 277; p. 180.
"Chocolate Covered Cherries." (For Chocolate Cherries.) Milwaukee Paper Box Company. No. 22,017; Aug. 24; v. 277; p. 785.
"Cinnamons." (For Candies.) Beech-Nut Packing Company. No. 21,960; Aug. 10; v. 277; p. 393.
"Clem's Pure Paints." (For Ready-Mixed Paints.) Clem Lumber Co. No. 21,992; Aug. 24; v. 277; p. 785.
"Clinton Handmade." (For Cigars.) Victor Levor. No. 22,067; Aug. 31; v. 277; p. 977.
"Cosmic." (For Cooked Vegetables—Namely, Vegeterian Beans.) Cosmic Products Corporation. No. 22,053; Aug. 31; v. 277; p. 977.
"Crescent." (For Malt-Products.) H. B. Fagan. No. 21,969; Aug. 17; v. 277; p. 585.
"Dehydrated Soup Nocan Taste." (For Dehydrated Soups.) Nocan Soup Company. No. 22,078; Aug. 31; v. 277; p. 977.
"Dewkist." (For Strawberries.) H. A. Baker. No. 21,927; Aug. 3; v. 277; p. 180.
"Diffuselite." (For Paints.) The J. G. Wilson Corporation. No. 22,037; Aug. 24; v. 277; p. 786.
"Ditty-Dotty." (For Candy.) The Ohio Confection Company. No. 21,952; Aug. 3; v. 277; p. 180.
"Dolores." (For Cigars.) C. B. Henschel Mfg. Co. No. 21,937; Aug. 3; v. 277; p. 180.
"Double Strength." (For Hard Candies—Namely, Hoarhound.) A. G. Morse Co. No. 22,075; Aug. 31; v. 277; p. 977.
"Drink Mixo." (For a Health-Drink Syrup.) Emil E. Steiner. No. 22,085; Aug. 31; v. 277; p. 978.
"Drink Steino." (For a Health-Drink Syrup.) Emil E. Steiner. No. 22,086; Aug. 31; v. 277; p. 978.
"Drink Vivo." (For a Health-Drink Syrup.) Emil E. Steiner. No. 22,087; Aug. 31; v. 277; p. 978.
"Elasticap." (For Splice-Insulators for Electric Conductors.) The Elasticap Company. No. 21,995; Aug. 24; v. 277; p. 785.
"Ethel-Olds Antiseptic." (For an Antiseptic.) Fredrick Glass. No. 22,060; Aug. 31; v. 277; p. 977.
"Eversnap." (For Garment-Fasteners.) Rosebeck Company. No. 21,954; Aug. 3; v. 277; p. 180.
"Every Bite a Delight." (For Fried Cakes and Cookies.) Grennan Cake Corporation. No. 22,004; Aug. 24; v. 277; p. 785.
"Flavorite Brand Apples." (For Apples.) University Heights Farms Co. No. 22,033; Aug. 24; v. 277; p. 786.
"Flossies." (For Candy Lozenges.) The Flossmint Company. No. 22,057; Aug. 31; v. 277; p. 977.
"Fox Trot Carbonated Laxative." (For Carbonated Laxative.) F. M. Fox & Co. No. 21,999; Aug. 24; v. 277; p. 785.
"Garco Gaskette Roll." (For Asbestos Sheet-Packing.) General Asbestos & Rubber Company. No. 22,059; Aug. 31; v. 277; p. 977.
"Garden City Motor Oils." (For Lubricating-Oils.) Garden City Oil Co. No. 22,000; Aug. 24; v. 277; p. 785.
"Germa Kidney Tablets." (For Kidney Tablets.) H. W. O'Brian & Company. No. 22,079; Aug. 31; v. 277; p. 977.
"Germa Stomach and Liver Tablets." (For Stomach and Liver Tablets.) A. W. O'Brian & Company. No. 21,978; Aug. 17; v. 277; p. 583.
"Ginger Ale." (For Ginger-Ale.) Frank M. Fox & Co. No. 21,998; Aug. 24; v. 277; p. 785.
"Good Will Cravats." (For Cravats.) Gelles & Weissman. No. 22,001; Aug. 24; v. 277; p. 785.
"Goodest-Ever." (For Soda-Water.) Cairo Food Products Company. No. 21,933; Aug. 3; v. 277; p. 180.
"Goodest-Ever." (For Ice-Cream.) Cairo Food Products Company. No. 21,934; Aug. 3; v. 277; p. 180.
"Grainо." (For Soaps.) Grainо Soaps Corporation. No. 22,002; Aug. 24; v. 277; p. 785.
"Grape-O." (For a Beverage.) Minck Bros. & Co. Inc. No. 22,073; Aug. 31; v. 277; p. 977.
"Great Generals." (For Cut Smoking-Tobacco and Cigars.) J. E. M. Wright. No. 22,039; Aug. 24; v. 277; p. 786.
"Handy Candy Lemon Drops." (For Candy.) Beech-Nut Packing Company. No. 21,959; Aug. 10; v. 277; p. 393.
"Hedges-Buck Co. Brand." (For Black Pepper.) Hedges-Buck Company. No. 22,005; Aug. 24; v. 277; p. 785.
"Helox-Antiseptic Healing Powder Veterinary." (For Antiseptic Healing-Powder.) Allaire, Woodward & Co. No. 21,926; Aug. 3; v. 277; p. 180.
"Hospital Carbolic Oil Soap." (For Carbolic-Oil Soap.) The J. T. Robertson Company. No. 22,027; Aug. 24; v. 277; p. 785.
"Iris." (For Cotton Thread.) Boston Thread Co. No. 21,988; Aug. 24; v. 277; p. 785.
"J. L. Hopkins & Co." (For Milled Crude Drugs.) J. L. Hopkins & Co. No. 22,008; Aug. 24; v. 277; p. 785.

"Jazz Hand Wash." (For Hand-Soap or Hand-Wash.) American Soap Company. No. 21,984; Aug. 24; v. 277; p. 785.

"Jinja-Jac." (For Ginger-Ale—Namely, Jinja-Jac.) Jackson Brewing Company. No. 22,063; Aug. 31; v. 277; p. 977.

"Joysoap." (For Soap.) Louisville Food Products Co. No. 22,071; Aug. 31; v. 277; p. 977.

"Kee-Ko." (For a Washing Preparation.) The W. P. Drackett and Sons Company. No. 21,936; Aug. 3; v. 277; p. 180.

"Kellogg's Krumbled Bran." (For a Food.) Kellogg Toasted Corn Flake Co.) No. 21,973; Aug. 17; v. 277; p. 583.

"Kemi-Plus Liquid Welding Solution." (For a Chemical Solution for Sealing Leaks in Automobile-Radiators and Steam-Boilers.) Kemi-Plus Manufacturing Co. No. 21,946; Aug. 3; v. 277; p. 180.

"Killian Kuality Supreme Pears." (For Pears.) W. H. Killian Co. No. 22,064; Aug. 31; v. 277; p. 977.

"La Bella." (For Musical-Instrument Strings Made of Gut.) E. & O. Mari. No. 22,072; Aug. 31; v. 277; p. 977.

"La Belle Hair Net." (For Hair-Nets.) A. A. West. No. 22,035; Aug. 24; v. 277; p. 786.

"Labor Saver." (For Soap.) Louisville Food Products Co. No. 22,070; Aug. 31; v. 277; p. 977.

"Lauritsen's Home Made Butter Scotch." (For Butter-Scotch.) Graphic Label Works. No. 22,003; Aug. 24; v. 277; p. 785.

"Lawrences." (For Canned Sardines.) The Lawrence Canning Company. No. 22,065; Aug. 31; v. 277; p. 977.

"Leather Lac." (For Preparation for Refinishing Leather Articles.) The R. F. Johnston Paint Company. No. 22,009; Aug. 24; v. 277; p. 785.

"Liberty Coffee." (For Coffee.) Gust Chilliras & Co. No. 22,050; Aug. 31; v. 277; p. 977.

"Life Belt." (For Coffee.) Kaffee Hag Corporation. No. 22,010; Aug. 24; v. 277; p. 785.

"Lil Joe." (For Candies.) Fox Candy Company. No. 21,938; Aug. 3; v. 277; p. 180.

"Lime Drops." (For Candies.) Beech-Nut Packing Company. No. 21,929; Aug. 3; v. 277; p. 180.

"Lime Drops." (For Candy.) Beech-Nut Packing Company. No. 21,958; Aug. 10; v. 277; p. 393.

"Lion Brand. Fresh Whey Cheese." (For Cheese.) Sanna Company, Inc. No. 22,028; Aug. 24; v. 277; p. 785.

"Lipton's Instant Cocoa." (For Cocoa.) Thomas J. Lipton, Inc. No. 22,068; Aug. 31; v. 277; p. 977.

"Luminette." (For Silk Piece Goods.) Max Straus. No. 22,088; Aug. 31; v. 277; p. 978.

"Mack's Old Kentucky Fruitta Punch." (For a Flavoring-Syrup.) E. B. McCrary. No. 21,976; Aug. 17; v. 277; p. 583.

"Mahletch Multicolor Press." (For Printing-Presses.) Lisenby Manufacturing Company. No. 22,069; Aug. 31; v. 277; p. 977.

"Man-Hell Automatic Inhaler." (For Inhalers.) Frederick Hellman Company. No. 22,007; Aug. 24; v. 277; p. 785.

"Manhattan." (For Hosiery.) C. W. Taves Co. No. 22,089; Aug. 31; v. 277; p. 978.

"Marathon." (For Cigarettes.) Constantine Tobacco Corporation. No. 22,052; Aug. 31; v. 277; p. 977

"Marine Paints." (For Paints.) Ocean Paint Works, Inc. No. 22,023; Aug. 24; v. 277; p. 785.

"Meie, a Compound of fresh skimmed Milk and Coconut Oil." (For a Compound of Milk and Vegetable Oil.) J. P. Gehl. No. 21,970; Aug. 17; v. 277; p. 583.

"Men-Tho-Eze 'Grandma Knows'." (For Ointment.) Men-Tho-Eze Corporation. No. 21,948; Aug. 3; v. 277; p. 180.

"Mermaid Paints." (For Paints.) Ocean Paint Works, Inc. No. 22,024; Aug. 24; v. 277; p. 785.

"Milk Chocolate." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,074; Aug. 31; v. 277; p. 977.

"Milk Chocolates." (For Milk Chocolates.) Milwaukee Paper Box Company. No. 22,020; Aug. 24; v. 277; p. 785.

"Milkmaid Bread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 22,021; Aug. 24; v. 277; p. 785.

"Milo Fruit Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,935; Aug. 3; v. 277; p. 180.

"Miracle." (For Canned Peaches.) St. Joe Canning Co. No. 21,956; Aug. 3; v. 277; p. 180.

"Mor-Hair." (For a Remedy for Dandruff.) Joseph Wetterer. No. 22,092; Aug. 31; v. 277; p. 978

"Mutual." (For Paints and Varnishes.) Mutual Paint Company. No. 22,076; Aug. 31; v. 277; p. 977.

"Nartz's Sterling Bread." (For Wrapper for Bread-Loaves.) Louis Nartz. No. 22,077; Aug. 31; v. 277; p. 977.

"Nekco." (For California Kippered Sardines.) Nielsen & Kittle Canning Company, Ltd. No. 22,022; Aug. 24; v. 277; p. 785.

"Neutral." (For Cotton Thread.) Boston Thread Co. No. 21,989; Aug. 24; v. 277; p. 785.

"O. B. C. Compound." (For a Foot Antiseptic Compound.) M. H. Boyle. No. 21,965; Aug. 17; v. 277; p. 583.

"Old Style Lady-Jefferson Candies Home Made." (For Candies.) Lady Jefferson Candy Company. No. 21,974; Aug. 17; v. 277; p. 583.

"Orcico." (For Cigars.) The Orrison Cigar Co. No. 22,025; Aug. 24; v. 277; p. 785.

"Our Pride." (For Apples.) Sgobel and Day. No. 21,955; Aug. 3; v. 277; p. 180.

"Oxydene." (For a Disinfectant, Sterilizer, Germicide and Deodorant.) Lacteal Analytical Laboratories, Inc. No. 22,011; Aug. 24; v. 277; p. 785.

"Pagliacci." (For Macaroni.) Milwaukee Macaroni Co. No. 22,016; Aug. 24; v. 277; p. 785.

"Painting for Light." (For Paints.) The J. G. Wilson Corporation. No. 22,038; Aug. 24; v. 277; p. 786.

"Pasco." (For Greases.) Pan-American Supply Company, Inc. No. 21,962; Aug. 10; v. 277; p. 393.

"Peanut Bar." (For Candies; namely "Peanut Bars.") Beech-Nut Packing Company. No. 21,986; Aug. 24; v. 277; p. 785.

"Pop's Peerless Polish." (For a Polish.) E. L. Hess. No. 22,006; Aug. 24; v. 277; p. 785.

"Princess Mackerel." (For Canned, Cooked, and Seasoned Mackerel.) P. Barna. No. 21,928; Aug. 3; v. 277; p. 180.

"Prize Dominoes Pop Corn Confection." (For a Pop-Corn Confection.) The Baxter Candy Company. No. 21,985; Aug. 24; v. 277; p. 785.

"Pronto." (For Fire-Extinguishing Compound.) The Allen Corporation. No. 21,983; Aug. 24; v. 277; p. 785.

"Put-Over-All." (For Overalls.) The Wigwam Co. Inc. No. 22,036; Aug. 24; v. 277; p. 786.

"Queen of Talcums." (For Talcum Powders.) Bo-Kay Perfume Company. No. 21,930; Aug. 3; v. 277; p. 180.

"Radish." (For Radish-Seeds.) Alfred J. Brown Seed Company. No. 21,961; Aug. 10; v. 277; p. 393.

"Rayn-Sno." (For a Chemically-Treated Fabric for Cleaning Windshields.) F. & F. Manufacturing Co. No. 22,056; Aug. 31; v. 277; p. 977.

"Red Top." (For Evaporated Milk.) T. C. Leedom. No. 22,012; Aug. 24; v. 277; p. 785.

"Reel." (For Chocolate Cream Drops.) Buhr, Pfaff & Co. No. 22,044; Aug. 31; v. 277; p. 977.

"Refinite Rival of the Clouds." (For Water-Softening Material.) The Refinite Company. No. 22,080; Aug. 31; v. 277; p. 977.

"Remar Bread." (For Bread.) Remar Company. No. 22,081; Aug. 31; v. 277; p. 977.

"Riverside Virginia." (For Cigarettes.) Constantine Tobacco Corporation. No. 22,051; Aug. 31; v. 277; p. 977.

"Rite Fit Trousers." (For Men's Trousers.) L. Zucker & E. Weinshel. No. 22,040; Aug. 24; v. 277; p. 786.

"Romar." (For Coffee.) Coffee Products Company. No. 21,994; Aug. 24; v. 277; p. 785.

"Roxana Ginger Cordial." (For Ginger-Cordial.) Southern Food Products Co. No. 22,083; Aug. 31; v. 277; p. 978.

"S C Ready Sauce." (For a Gravy.) Santo Caramella. No. 21,963; Aug. 10; v. 277; p. 393.

"Seal-Fast." (For Repair Patches for Automobile Tubes.) Seal-Fast Mfg. Co. No. 22,029; Aug. 24; v. 277; p. 786.

"Smith's Hand-Made Candy." (For Candy.) E. A. Smith. No. 22,030; Aug. 24; v. 277; p. 786.

"Sparks Flour." (For Self-Rising Flour.) Sparks Milling Company. No. 22,084; Aug. 31; v. 277; p. 978.

"Spicefield." (For Cotton Thread.) Boston Thread Co. No. 21,987; Aug. 24; v. 277; p. 785.

"Star Building Blocks." (For Building-Blocks.) American Novelty Works. No. 21,964; Aug. 17; v. 277; p. 583.

"Sub-Treatment for Goiter and Tumors." (For a Salve for the Treatment of Goiter and Tumors.) L. A. Hibshman. No. 21,971; Aug. 17; v. 277; p. 583.

"Surety." (For Canned Sardines.) American-Mexican Packing Company. No. 22,041; Aug. 31; v. 277; p. 977.

"Sweet Corn." (For Seed-Corn.) A. J. Brown Seed Company. No. 21,931; Aug. 3; v. 277; p. 180.

"Sweet Hearts Quality." (For Plastic Skin-Lotions.) L. McNamara. No. 21,977; Aug. 17; v. 277; p. 583.

"Taffy on the Broomstick." (For Taffy.) The Candy Craft Shops, Inc. No. 22,048; Aug. 31; v. 277; p. 977.

"Tandem Team." (For Cigars.) Walter M. Fox. No. 22,058; Aug. 31; v. 277; p. 977

"Tesoro Rancho Fancy." (For Citrus Fruits.) A. S. Bradford. No. 21,967; Aug. 17; v. 277; p. 583.

"Tesoro Rancho Red Label." (For Citrus Fruits.) A. S. Bradford. No. 21,966; Aug. 17; v. 277; p. 583.

"The Ace." (For Caps, Sweaters, and Fancy Knit Goods.) The Lion Knitting Mills Co. No. 22,013; Aug. 24; v. 277; p. 785

"The Bal Masque." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,019; Aug. 24; v. 277; p. 785

"The Caswell Blend." (For Coffee.) G. W. Caswell Co. No. 21,991; Aug. 24; v. 277; p. 785

"The Famous Brew." (For Coffee.) McCord-Brady Company. No. 21,947; Aug. 3; v. 277; p. 180.

"The H & A Best Jute Clothes Line." (For Jute Clothesline.) The Hooven and Allison Company. No. 21,939; Aug. 3; v. 277; p. 180.

"The H & A Best Sisal Clothes Line. (For Sisal Clothesline.) The Hooven and Allison Company. No. 21,940; Aug. 3; v. 277; p. 180.

"The H & A Best New Zealand Hemp Clothes Line." (For New Zealand Hemp Clothesline.) The Hooven and Allison Company. No. 21,941; Aug. 3; v. 277; p. 180.

"The H & A Best Istle Clothes Line." (For Istle Clothesline.) The Hooven and Allison Company. No. 21,942; Aug. 3; v. 277; p. 180.

"The H & A Best Mauritius Clothes Line." (For Mauritius Clothesline.) The Hooven and Allison Company. No. 21,943; Aug. 3; v. 277; p. 180.

"The H & A Best Manila Clothes Line." (For Manila Clothesline.) The Hooven and Allison Company. No. 21,944; Aug. 3; v. 277; p. 180.

"The Mascot." (For Scalp-Ointment.) L. J. Larivee. No. 219,975; Aug. 17; v. 277; p. 583.

"The Preferred Chocolates." (For Chocolates.) A. G. Morse Co. No. 21,951; Aug. 3; v. 277; p. 180.

"13 Soap Unlucky for Dirt." (For Soap.) The United American Trading Co. No. 22,091; Aug. 31; v. 277; p. 978.

"Thompson's." (For Pure Food Products.) J. R. Thompson Co. No. 22,032; Aug. 24; v. 277; p. 786.

"Thomason's Motor Life." (For a Gas-Saver, Carbon-Remover, and Lubricant, for any Style of Gasolene Explosion-Engine.) J. A. Thomason & Co. No. 22,090; Aug. 31; v. 277; p. 978.

"Twentieth Century Chocolates." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,018; Aug. 24; v. 277; p. 785.

"Valley Brand." (For Fresh Apples.) Valley Fruit Co. Inc. No. 21,982; Aug. 17; v. 277; p. 583.

"Valley Forge Special." (For Lager-Beer.) Adam Scheidt Company. No. 22,082; Aug. 31; v. 277; p. 977.

"Value Received." (For Chocolates.) A. G. Morse Co. No. 21,950; Aug. 3; v. 277; p. 180.

"Victory Canning & Packing Cos. Brand." (For Canned Artichokes.) Victory Canning & Packing Company. No. 22,034; Aug. 24; v. 277; p. 786.

"Wennersten's Malthop, the Home Food-Beverage." (For Canned Extracts.) Henning Wennersten Incorporated. Nos. 22,061–2; Aug. 31; v. 277; p. 977.

"Whole Wheat Bread." (For Whole-Wheat Bread.) Ralston Purina Company. No. 21,979; Aug. 17; v. 277; p. 583.

"Wild Hy-Ball." (For Non-Intoxicating Beverages.) R. A. Brachvogel. No. 21,990; Aug. 24; v. 277; p. 785.

"World's Best Cafeteria Feeder." (For Live-Stock Feeders and Drinking-Fountains.) J. Q. Clarke Tank Co. No. 21,968; Aug. 17; v. 277; p. 583.

ALPHABETICAL LIST OF PRINTS.

"Arguto." (For Machinery-Bearings.) Norman Mellor. No. 5,328; Aug. 31; v. 277; p. 978.

"Besto Nut." (For a Spread for Bread.) Wisconsin Butterine Co. No. 5,291; Aug. 17; v. 277; p. 583.

"Bugs Breathe It and Die." (For Insecticide.) Hofstra Manufacturing Company. No. 5,322; Aug. 31; v. 277; p. 978.

"Carbon Sheets for Duplicating Cause No Trouble in Pads Bound by Nurex." (For Tabbing Compounds.) The Lee Hardware Co. No. 5,327; Aug. 31; v. 277; p. 978.

"Christmas Tree Lighting Outfits." (For Lighting Outfits.) Import Sales Company. No. 5,324; Aug. 31; v. 277; p. 978.

"Drink Green River." (For Non-Alcoholic Beverages. Schoenhofen Company. No. 5,289; Aug. 17; v. 277; p. 583.

"Drink Green River the Snappy Lime Drink." (For Non-Alcoholic Beverage—Namely, a Lime Drink.) Schoenhofer Company. No. 5,317; Aug. 24; v. 277; p. 786.

"Every Bite a Delight." (For Cakes.) Grennan Cake Corporation. No. 5,320; Aug. 31; v. 277; p. 978.

"Every Complexion Needs Soap." (For Soap.) The Palmolive Company. No. 5,308; Aug. 24; v. 277; p. 786.

"For the Little Folks." (For Scissors and Shears.) The Acme Shear Company. No. 5,276; Aug. 3; v. 277; p. 180.

"Gold Dust—a Real Help at Preserving Time." (For Washing-Powder.) The N. K. Fairbank Company. No. 5,294; Aug. 24; v. 277; p. 786.

"Handy Candy Cinnamons." (For Candies.) Beech-Nut Packing Company. No. 5,284; Aug. 10; v. 277; p. 393.

"Handy Candy Lemon Drops." (For Candy.) Beech-Nut Packing Company. No. 5,282; Aug. 10; v. 277; p. 393.

"Handy Candy Lime Drops." (For Candy.) Beech-Nut Packing Company. No. 5,283; Aug. 10; v. 277; p. 393.

"Handy Candy Mints." (For Candy Mints.) Beech-Nut Packing Company. No. 5,318; Aug. 31; v. 277; p. 978.

"Handy Candy Sweet Birches." (For Candies.) Beech-Nut Packing Company. No. 5,277; Aug. 3; v. 277; p. 180.

"Handy Candy Wintergreens." (For Candy.) Beech-Nut Packing Company. No. 5,281; Aug. 10; v. 277; p. 393.

"Harmless to Humans—Fatal to Bugs." (For Insecticide.) Hofstra Manufacturing Company. No. 5,321; Aug. 31; v. 277; p. 978.

"Hays Gloves." (For Leather Gloves.) The Daniel Hays Company. No. 5,287; Aug. 17; v. 277; p. 583.

"Hofstra—The National Insecticide." (For Insecticide.) Hofstra Manufacturing Company. No. 5,323; Aug. 31; v. 277; p. 978.

"Lectro Service Stand." (For Devices for Locating and Eliminating Short Circuits in and Recharging Magnets of Ford Magnetos.) Lectro Sales Company. No. 5,288; Aug. 17; v. 277; p. 583.

"Make Your Own Ink." (For a Powdered Ink.) The Economy Ink Company. No. 5,293; Aug. 24; v. 277; p. 786.

"Makes Your Hair Look Its Best." (For Mulsified Cocoanut-Oil Shampoo.) The R. L. Watkins Company. Nos. 5,331–3; Aug. 31; v. 277; p. 978.

"Making a Hit." (For Boys' Blouses.) The Kaynee Company. No. 5,325; Aug. 31; v. 277; p. 978.

"Nailing the Right Bower Every Time the Deck's Dealt." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,312; Aug. 24; v. 277; p. 786.

"Novak's Pills." (For Pills for the Treatment of Constipation.) John Novak Company. No. 5,329; Aug. 31; v. 277; p. 978.

"Nucoa Churn Girl." (For Substitute for Butter.) The Nucoa Butter Company. No. 5,286; Aug. 10; v. 277; p. 393.

"Nurex Tabbing Compound." (For Tabbing Compounds.) The Lee Hardware Co. No. 5,326; Aug. 31; v. 277; p. 978.

"Prince Albert the National Christmas Joy Smoke." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,313; Aug. 24; v. 277; p. 786.

"Pure as Gold Transparent as Truth." (For Kirk's Jap Rose Soap.) James S. Kirk & Company. No. 5,305; Aug. 24; v. 277; p. 786.

"Re-Incarnation of Beauty." (For Soap.) The Palmolive Company. No. 5,310; Aug. 24; v. 277; p. 786.

"Rely on Reliance." (For Work-Shirts.) Reliance Mfg. Company. No. 5,311; Aug. 24; v. 277; p. 786.

"Skookum America's Supreme Apples Who Can Resist Them?" (For Apples.) Northwestern Fruit Exchange. No. 5,307; Aug. 24; v. 277; p. 786.

"Sweetheart Chocolates." (For Candy.) The Harter Candy Co. No. 5,285; Aug. 10; v. 277; p. 393.

"Talk About Handing Yourself a Birthday-Blow-Out with Bells on." R. J. Reynolds Tobacco Company. No. 5,316; Aug. 24; v. 277; p. 786.

"Taking Awkward Angles Out of the Early Christmas Morning Atmosphere." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,315; Aug. 24; v. 277; p. 786.

"The New 1920 Haynes Roadster." (For Automobiles.) The Haynes Automobile Company. No. 5,298; Aug. 24; v. 277; p. 786.

"The New 1920 Haynes Roadster." (For Automobiles.) The Haynes Automobile Company. No. 5,304; Aug. 24; v. 277; p. 786.

"The New 1920 Haynes Touring Car." (For Automobiles.) The Haynes Automobile Company. No. 5,295; Aug. 24; v. 277; p. 786.

"The New 1920 Haynes Touring Car." (For Automobiles.) The Haynes Automobile Company. No. 5,302; Aug. 24; v. 277; p. 786.

"The New Series Haynes Brougham." (For Automobiles.) The Haynes Automobile Company. Nos. 5,296–7; Aug. 24; v. 277; p. 786.

"The New Series Haynes Coupé." (For Automobiles.) The Haynes Automobile Company. No. 5,299; Aug. 24; v. 277; p. 786.

"The New Series Haynes Coupé." (For Automobiles.) The Haynes Automobile Company. No. 5,301; Aug. 24; v. 277; p. 786.

"The New Series Haynes Suburban." (For Automobiles.) The Haynes Automobile Company. No. 5,300; Aug. 24; v. 277; p. 786.

"The New Series Haynes Suburban." (For Automobiles.) The Haynes Automobile Company. No. 5,303; Aug. 24; v. 277; p. 786.

"The Price of Beauty." (For Soap.) The Palmolive Company. No. 5,280; Aug. 3; v. 277; p. 180.

"The Price of a Good Complexion." (For Soap.) The Palmolive Company. No. 5,330; Aug. 31; v. 277; p. 978.

"The Way to Rose Complexions." (For Soap.) The Palmolive Company. No. 5,309; Aug. 24; v. 277; p. 786.

"Try a Green River Soda." (For Non-Alcoholic Beverages.) Schoenhofen Company. No. 5,290; Aug. 17; v. 277; p. 583.
"Virginia Dare Agrees with the Constitution." (For Non-Intoxicating Wine.) Garrett and Company, Incorporated. No. 5,319; Aug. 31; v. 277; p. 978.
"What Tabbing Compound Permits This? Only Nurex!" (For Tabbing Compound.) The Lee Hardware Co. No. 5,278; Aug. 3; v. 277; p. 180.
"You Can Do This With Nurex." (For Tabbing Compound.) The Lee Hardware Co. No. 5,279; Aug. 3; v. 277; p. 180.
"You Will Not Regret It—If You Conduiet it." (For Conduiets.) Crouse-Hinds Co. No. 5,292; Aug. 24; v. 277; p. 786.
"'Yourex,' The Silver Plated Knives." (For Silver-Plated Knives.) Associated Silver Company. No. 5,275; Aug. 3; v. 277; p. 180.
"You're Wise-o That You've Been Checking Smoke Sport." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,314; Aug. 24; v. 277; p. 786.
"Winter's Chilly Temperature Does Not Affect Nurex." (For Tabbing Compounds.) The Lee Hardware Co. No. 5,306; Aug. 24; v. 277; p. 786.

DISCLAIMERS.

Apparatus for drying wood veneer. E. Lambert. No. 1,228,790; date of patent June 5, 1917; disclaimer filed July 23, 1920; v. 277; p. 398.
Automobiles. H. L. Ide. No. 861,183; date of patent July 23, 1907; disclaimer filed July 12, 1920; v. 277; p. 184.
Box-blank machine. J. H. Greenstreet. No. 1,325,719; date of patent Dec. 23, 1919; disclaimer filed July 28, 1920; v. 277; p. 398.
Telephone-exchange system, Semi-automatic. F. Lubberger. No. 1,306,824; date of patent, June 17, 1919; disclaimer filed July 15, 1920; v. 277; p. 185.

CLASSIFICATION OF PATENTS

AUGUST, 1920.

NOTE.—First number—class, second number—subclass, third number—patent number.

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7: 1,348,850
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33: 1,351,152
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1920.

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1920

ERRATA.

1,252,700, page 227, first claim, line 2, after the word "of," first occurrence, insert the words *material which upon fusion yields.*

1,253,388, page 421, in heading, assignment, name of assignee, for "A. B. Davis" read *A. B. Avis.*

1,253,439, page 431, in heading, assignment, residence of assignee, for "New Haven, Conn." read *Waterbury, Conn.*

1,253,706, page 486, in heading, assignment, name of assignee, for "The Ingersoll-Rand Company" read *Ingersoll-Rand Company.*

1,254,318, page 653, in heading, assignment, name of assignee, for "The Ingersoll-Rand Company" read *Ingersoll-Rand Company.*

Trade-Marks published, page 688, for "Ser. No. 128,480," read *Ser. No. 128,486.*

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E.R.

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THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 278—No. 1. TUESDAY, SEPTEMBER 7, 1920. Price—$5 per year.

[PUBLISHED SEPTEMBER 8, 1920.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

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Total	809		

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 30, 1920.

Pyro Paint Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of George F. Johnston, of Fort Dodge, Iowa, for registration of a trade-mark and trade-mark registered May 16, 1899, No. 32,902, to Pyro Paint Company, of 37–39 Commercial Place, Norfolk, Va., and a notice of such declaration sent by registered mail to said Pyro Paint Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Pyro Paint Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULTSON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 17, 1920.

Frederick Gardner, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Ward Baking Company, Southern Boulevard and East One Hundred and Forty-third street, New York, N. Y., for registration of a trade-mark and trade-mark registered January 8, 1907, No. 59,440, to Frederick Gardner, 151 East Van Buren street, Chicago, Ill., and a notice of such declaration sent by registered mail to said Frederick Gardner at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Frederick Gardner, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 17, 1920.

H. Chaloner & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Pendleton Creamery Company, Pendleton, Ind., for registration of a trade-mark and trade-mark registered June 18, 1901, No. 36,614, to H. Chaloner & Co., 36 Water street, New York, N. Y., and a notice of such declaration sent by registered mail to said H. Chaloner & Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said H. Chaloner & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 17, 1920.

Retailers' Cooperative Association, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Henry Thayer & Co., Inc., of 150 Broadway, Cambridge, Mass., for registration of a trade-mark and trade-mark registered November 12, 1912, No. 89,143, to Retailers' Cooperative Association, of 428 Market street, Camden, N. J., and a notice of such declaration sent by registered mail to said Retailers' Cooperative Association at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Retailers' Cooperative Association, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

Amendments to Amendments.

RULE 74. When an amendatory clause is amended, it must be wholly rewritten, so that no interlineation or erasure shall appear in the clause, as finally amended, when the application is passed to issue. If the number or nature of the amendments shall render it otherwise difficult to consider the case or to arrange the papers for printing or copying, the Examiner or Commissioner may require the entire specification to be rewritten.

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APPLICATIONS UNDER EXAMINATION.

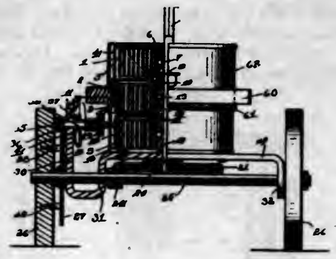
Condition at Close of Business Aug. 28, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 26	Mar. 11	620
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Jan. 1	Feb. 27	971
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 17	Apr. 16	238
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Nov. 17	May 22	1,586
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Apr. 9	May 11	481
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Apr. 3	June 21	545
312	7. Games and Toys; Optics; Photography; Velocipedes	Apr. 29	May 25	904
151	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	June 8	June 17	476
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Mar. 17	Mar. 29	573
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 24	July 6	993
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Apr. 7	Apr. 15	384
223	12. Machine Elements	Dec. 10	May 22	1,116
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Dec. 15	June 12	1,162
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	Apr. 23	700
308	15. Bread, Pastry, and Confection Making; Coating; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 17	Apr. 20	1,310
	16. Radiant Energy; Telegraphy; Telephony	Dec. 31	Mar. 1	890
111 307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	June 18	June 25	193
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Feb. 2	Apr. 5	1,283
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 12	Mar. 11	639
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	May 20	May 7	699
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 29	June 22	545
249	22. Aeronautics; Firearms; Ordnance	June 10	June 24	263
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 13	May 11	767
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Mar. 3	June 3	589
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	July 15	July 9	233
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Jan. 10	Feb. 2	776
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	May 7	May 29	533
225	28. Internal-Combustion Engines	Feb. 16	May 4	795
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Mar. 1	June 9	651
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 31	July 15	1,147
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 24	Mar. 5	1,393
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Jan. 2	June 1	1,185
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Apr. 1	June 1	476
301	34. Electricity-Transmission to Vehicles; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	July 12	July 7	236
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	July 7	July 19	474
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Mar. 29	Apr. 24	1,209
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 16	Mar. 26	1,271
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Apr. 8	May 1	844
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 20	Dec. 26	1,329
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 5	Mar. 15	1,006
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Jan. 15	June 4	867
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Feb. 16	Mar. 23	1,189
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Dec. 15	Mar. 16	1,067
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Apr. 22	June 10	310
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Mar. 3	Apr. 2	1,060
264	46. Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Feb. 2	Apr. 1	631
332	47. Brakes; Clutches; Fluid Pressure Brake and Analogous Systems	Jan. 8	Nov. 19	943
	Oldest new case, Oct. 20; oldest amended, Nov. 19.			
	Total number of applications awaiting action			37,522
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Mar. 18	Aug. 7	2,596
	Designs	Mar. 17	Apr. 27	979
	Labels and Prints	May 15	Aug. 9	552

PATENTS

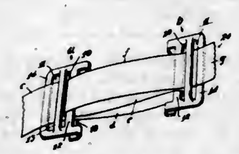
GRANTED SEPTEMBER 7, 1920.

1,351,727. SPRING-MOTOR. HOWARD G. ALLEN, Albion, N. Y. Filed May 31, 1919. Serial No. 300,980. 3 Claims. (Cl. 185—37.)



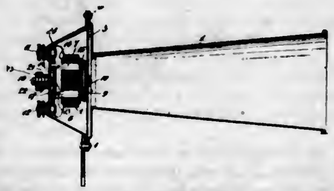
1. In a spring motor, the combination of a frame, a cylindrical housing mounted to rotate in said frame, a series of springs mounted in said housing, a power shaft driven by said springs, a stationary axle, said cylindrical housing being mounted on said stationary axle, a driving shaft mounted parallel to said stationary axle and carried thereby, and wheels mounted on said driving shaft, said driving shaft being geared to said power shaft and being driven thereby.

1,351,728. CORSET-FASTENING. JULIA H. AUERBACH, Los Angeles, Calif. Filed May 27, 1918. Serial No. 236,666. 2 Claims. (Cl. 24—140.)



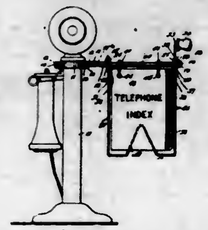
2. In a garment lacing, a series of three bars connected at their ends forming ribbon receiving slots on opposite sides of the intermediate bar, a pair of inturned flanges carried by one of the side bars adjacent its ends, a bar connecting the outer ends of said flanges, a series of eyelet engaging fasteners slidable on said last named bars and hooked ends on said fasteners adapted to engage said intermediate bar.

1,351,729. ELECTRIC HORN. BUTLER AMES, Lowell, Mass. Filed Mar. 14, 1917. Serial No. 154,867. 7 Claims. (Cl. 177—7.)



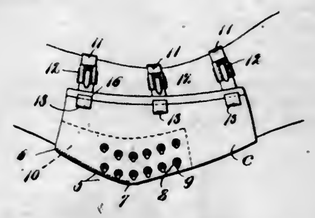
1. Electrical apparatus comprising a magnet, a magnetic armature movably mounted with respect to the magnet so as to be attracted thereby, and means for mounting the magnet so that it may automatically adjust its position with respect to the armature.

1,351,730. CARD-INDEX DIRECTORY. LEOPOLD BACHRACH, New York, N. Y. Filed Dec. 23, 1919. Serial No. 346,996. 7 Claims. (Cl. 40—1.)



1. An index device comprising a shaft support, a frame rotatably mounted on said shaft support, a plurality of index cards suspended within said frame and engaged at their rear by said frame, said cards adapted to be individually swung about said shaft to bring the cards normally forwardly of the card to be exposed rearwardly of said frame, said frame adapted upon being rotated in one direction about said shaft to place all of the cards forwardly thereof.

1,351,731. ELBOW-PROTECTOR. MURRAY BALDWIN, Brookline, Mass. Filed Dec. 17, 1918. Serial No. 267,097. 8 Claims. (Cl. 2—95.)



1. A device for protecting the elbow while firing a firearm in a recumbent position, comprising a casing fitting the elbow and having means thereon adapted to prevent the device from sliding under the impact due to the discharge of the firearm.

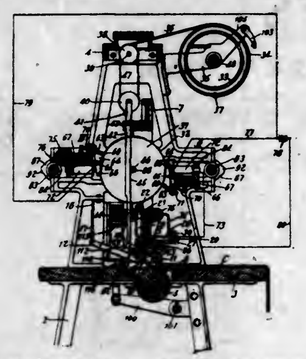
2. A device for protecting the elbow while firing a firearm in a recumbent position, comprising a casing fitting the elbow and having studs projecting therefrom adapted to prevent the device from sliding under the impact due to the discharge of the firearm.

3. A device for protecting the elbow while firing a firearm in a recumbent position, comprising a casing fitting the elbow and adapted to be detachably fastened to the arm, and a pad detachably fastened inside the casing.

1,351,732. MEASURING-MACHINE. FREDERIC R. BARKER, Boston, and WALTER R. SOPER, Lynn, Mass. Filed Mar. 7, 1918. Serial No. 221,055. 41 Claims. (Cl. 33—123.)

1. An area measuring machine having, in combination, work feeding means, a rotary feeder adapted to be moved laterally of said work feeding means by the thickness of the work, area indicating means, an escapement mecha-

nism, means connecting said feeler mechanism and said escapement mechanism to transmit motion from the former



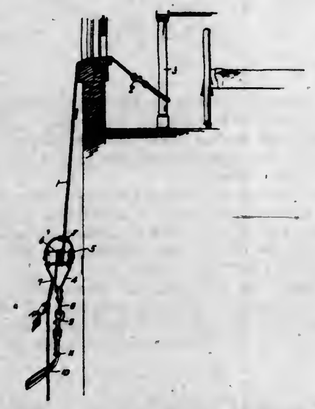
to the latter and means to connect said escapement mechanism with said area indicating means.

1,351,733. WINDOW-SCREEN. CHARLES J. BARKER, Columbus, Ohio. Filed Apr. 16, 1920. Serial No. 374,386. 6 Claims. (Cl. 156—14.)



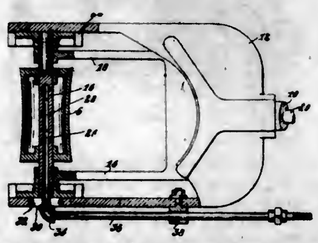
6. A window screen including a frame having vertical side bars, supporting uprights secured to the lower portions of the inner surfaces of said side bars in spaced relation thereto, and a strip of ventilating fabric having its ends secured around the said uprights, for the purpose described.

1,351,734. FIRE-ESCAPE. FRED G. BARRINGTON, Venice, Calif. Filed Mar. 5, 1920. Serial No. 363,408. 1 Claim. (Cl. 227—28.)



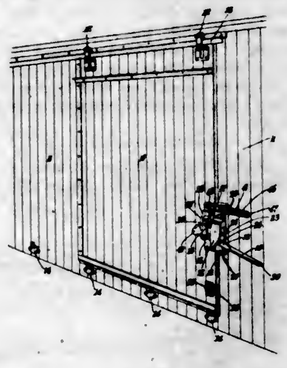
A fire escape comprising an open frame consisting of a strap doubled on itself and having its ends brought together to form an arched top portion, relatively short vertical end portions and converging bottom portions, said converging bottom portions having flat parallel terminals, and provided in its top and in one of said converging bottom portions near its flat terminal with guide openings, a bar extending between the sides of said frame and having its central portion circular in cross section, the ends of said bar being flat faced and abutting and secured rigidly to the short vertical end portions of the frame, an eye secured between the said flat parallel terminals, a belt suspended from said eye, and a cable having its intermediate portion wrapped around the central circular portion of the bar and its end portions passing through the guide openings in the top and the bottom portion of the frame, the upper end of the cable being provided with anchoring means.

1,351,735. SOLE-LEVELING MACHINE. WILLIAM C. BAXTER, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 13, 1915. Serial No. 7,985. 1 Claim. (Cl. 12—34.)



A sole leveling machine comprising a roll carrier having a slotted side bar, a yoke slidingly supported in the carrier, means for vibrating the yoke within the carrier, a non-rotatable hollow shaft mounted in the yoke and having a series of fuel passages communicating with the central bore, a fuel pipe connected to the end of the shaft and passing through the slot in the side bar, and an open ended hollow leveling roll journaled upon the shaft and heated by jets of flame within the roll and issuing from the fuel passages in the shaft, the products of combustion passing out through the open end of the roll.

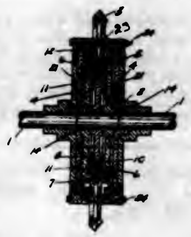
1,351,736. DOOR-FASTENER. CLAUDE A. BEAR, Albany, N. Y., assignor of two-ninths to George P. Fox, Albany, N. Y., two-ninths to Alexander McGary, New York, N. Y., and two-ninths to George R. Berger, Chicago, Ill. Filed Mar. 31, 1919. Serial No. 286,448. 14 Claims. (Cl. 292—241.)



1. In an arrangement of the class described, the combination with a door and its frame, of a keeper member secured to one, a latch member pivoted to the other and coöperating with the keeper to pull the door closed by a cam action when the latch member is swung into engagement with the keeper, said keeper member being spaced from the member to which it is secured and said latch member being adapted to swing in between the keeper

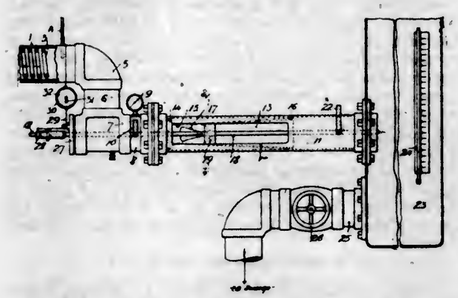
member and the member to which it is secured, and a dog adapted to be inserted in the path of the latch member to prevent its becoming unlatched from the keeper, said latch member having a part adapted to force the door open when the latch member is swung in the opposite direction, and perforated lugs, one carried by the member secured to the frame and the other by the member secured to the door, by means of which the door may be sealed.

1,351,737. DIFFERENTIAL GEARING. JOHN C. BOGART, Bay City, Mich., assignor of one-half to Paul R. Dinsmore, Bay City, Mich. Filed Nov. 15, 1918. Serial No. 262,681. 5 Claims. (Cl. 74—7.)



1. In a differential gearing the combination of opposite drive shafts, a drive gear disposed between the drive shafts, driving elements located at opposite sides of the drive gear and having a limited movement independent of the same, ratchet elements mounted on the drive shafts, opposite dogs carried by the driving elements and arranged to engage the ratchet elements, and shiftable means operating between the dogs and connected with and actuated by the drive gear for moving one dog out of engagement with each ratchet element and for permitting another dog to engage the same.

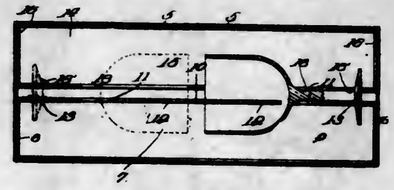
1,351,738. PROPELLER-TESTING DEVICE. WILLIAM SPENCER BOWEN, New York, N. Y. Filed Sept. 10, 1917. Serial No. 190,557. 9 Claims. (Cl. 73—51.)



1. A propeller testing device comprising means forming a liquid passage and having a transparent portion through which the propeller may be observed, a propeller adapted to revolve within said passage adjacent the transparent portion of said liquid passage to propel the liquid through said passage, power means for operating the propeller from without said liquid passage, and a rectifying vane arranged behind the propeller and within said transparent liquid passage and adapted to rectify the current of liquid propelled by said propeller.

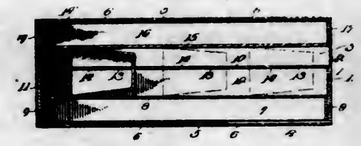
1,351,739. SHIPPING-CASE. ROGER J. BOYD, Chicago, Ill., assignor, by mesne assignments, to Carson Pirie Scott & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 22, 1917. Serial No. 187,641. 2 Claims. (Cl. 206—65.)

1. A packing case for goblets and other stem glasses, comprising a box, a tray supported therein, and having openings therein to receive the body of the stem glasses and also separate openings to receive the base of the



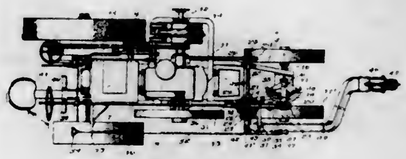
glasses and a second tray having corresponding openings placed above the first tray in an inverted position.

1,351,740. SHIPPING-CASE. ROGER J. BOYD, Chicago, Ill., assignor, by mesne assignments, to Carson Pirie Scott & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 22, 1917., Serial No. 187,642. 1 Claim. (Cl. 206—65.)



The combination with a box, of a cushioning section in the bottom of the box, a tray formed of a top, sides and ends, said sides and ends resting on the cushioning section, the top of the tray having elongated openings, tongues formed integral with the top and extending inwardly from one end of the openings and adapted to enter the glasses within the openings, and a cushioning section above the tray and resting upon the glasses.

1,351,741. STEERING MECHANISM FOR TRACTION-ENGINES. EDWARD W. BURGESS, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed July 5, 1916. Serial No. 107,679. 6 Claims. (Cl. 97—81.)

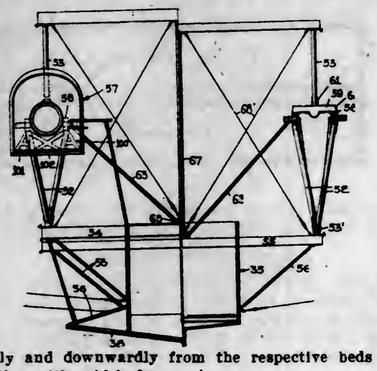


1. In combination, a tractor having a steering wheel, automatic steering means including a gage wheel in advance of the tractor and power driven mechanism including a clutch and gears operatively connecting the gage wheel and steering wheel for automatically angling said steering wheel, and manual steering means independent of the clutch and operable through said gears for manually angling the steering wheel.

1,351,742. FLYING-BOAT CONSTRUCTION. GLENN H. CURTISS and HENRY KLECKLER, Buffalo, N. Y., assignors to Curtiss Aeroplane & Motor Corporation, a Corporation of New York. Filed Dec. 23, 1916. Serial No. 138,633. 14 Claims. (Cl. 244—14.)

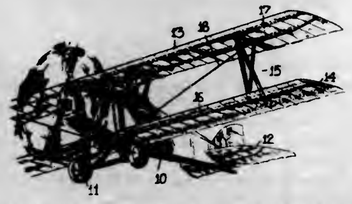
1. In an aircraft, superposed supporting surfaces including wing beams, engine beds supported at opposite

sides of the longitudinal axis of the craft between the supporting surfaces, a body, and braces extending diagonally



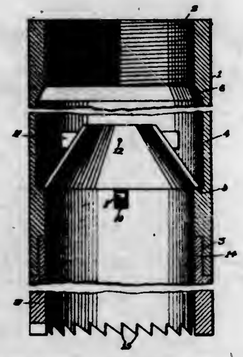
inwardly and downwardly from the respective beds for connection with said body.

1,351,743. AIRPLANE-WING-STRUCTURE TRUSS. GLENN H. CURTISS, Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed May 4, 1918. Serial No. 232,486. 4 Claims. (Cl. 244—31.)



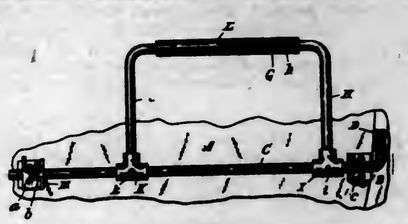
1. A wing structure truss for airplanes having a single exposed wire at each side of the fore and aft axis of the craft to care for both the lift and drift stresses, the wire in each instance being extended rearwardly and outwardly at an angle.

1,351,744. OVERSHOT. ROY A. DAILEY, Taft, Calif. Filed Oct. 11, 1919. Serial No. 330,006. 1 Claim. (Cl. 294—90.)



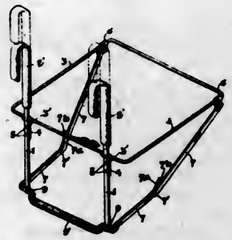
An overshot fishing tool comprising a cylindrical body, a plurality of rhomboidal slips disposed therein and tapering upwardly and having their upper edges formed with arcuate depressions, an integral lug extending from the lower edge of each slip, the body being formed with openings receiving said lugs, transverse pins passing through said lugs and pivoting the slips, and a plate spring secured externally to each slip and engaging the wall of the body.

1,351,745. SIGNAL-OPERATING DEVICE FOR AUTOMOBILES. MARK DEAN, Boonville, N. Y. Filed May 18, 1918. Serial No. 235,260. 1 Claim. (Cl. 74—81.)



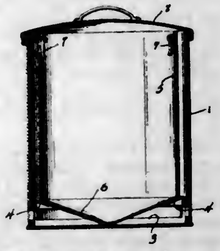
A knee switch for automobiles which comprises a rod rotatably mounted upon the side door of an automobile, and provided with an offset arm adapted to contact with a signal giving mechanism, adjustable sleeves mounted on said rod and a pressure bar mounted upon said sleeves and located within easy reach of the knee of the operator.

1,351,746. SUSPENSIBLE SEAT. JOHN A. EBERLE, St. Louis, Mo. Filed June 27, 1918. Serial No. 242,251. 2 Claims. (Cl. 155—79.)



1. A portable foldable seat comprising hanger bars provided with pivot bearing members, a seat frame having spaced offset pivot portions integral therewith and seated on said hanger bars and journaled in said pivot bearing members to permit pivotal movement of said seat frame relative to said hanger bars without lateral movement of the seat frame, foldable supports connecting said seat frame to said hanger bars, said supports each comprising a pair of members pivotally connected together, one member of said pair of members having a stop integral therewith and adapted to automatically abut the other member of the pair so as to limit the pivotal movement therebetween, and a cross-bar joining the lower portions of the hanger bars and being offset outwardly from its plane of juncture with the hanger bars so as to provide an engaging surface for the fixture to which the portable seat is applied.

1,351,747. GARBAGE-CAN. JOHN R. FLINN, Johnstown, Pa. Filed Dec. 4, 1918. Serial No. 265,210. 4 Claims. (Cl. 220—17.)



1. A garbage can including an outer receptacle equipped with a detachable ring embracing the inner periphery of the latter, an inner receptacle for concentric mounting in

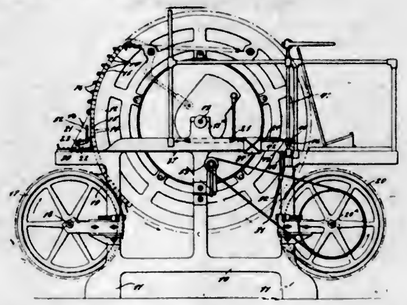
said outer receptacle and ring, and fingers carried by said ring and engaging the inner receptacle to retain the latter centered.

1,351,748. SPRING STRUCTURE. HYMAN FREEDMAN, Chicago, Ill. Filed July 17, 1919. Serial No. 311,467. 2 Claims. (Cl. 155—179.)



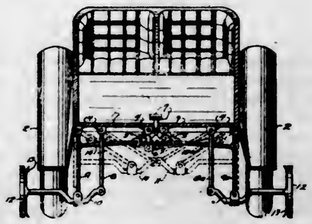
1. In a spring seat structure, upper and lower peripheral frames secured in convergently yielding relation to each other, said structure including a plurality of coiled springs disposed in compression between said frames, centrally shouldered sockets being provided on one of said frames to receive the ends of said springs respectively for holding the latter in place against lateral displacement, tension means to limit the divergence of said frames, a plurality of medially disposed coiled springs, a resilient support stretched across said lower frame whereon the medial springs rest, and upholstering secured at its edges to said upper frame and held in upwardly bulging position by said medial springs.

1,351,749. FIBER-DRESSING MACHINE. FRITZ GRAF, Sr., Collingdale, Pa. Filed Dec. 29, 1919. Serial No. 348,237. 18 Claims. (Cl. 19—25.)



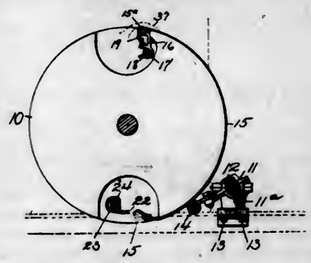
5. In a machine of the character described, means for conveying a plurality of sticks for carrying textile fibers, means for unwinding the sticks from the fibers to release them from the conveying means, and means adapted to be actuated by a broken stick to arrest the operation of the machine.

1,351,750. ANTISKID DEVICE FOR AUTOMOBILES. JAKOB GRÖNROOS, Fairport Harbor, Ohio. Filed Nov. 10, 1919. Serial No. 337,096. 1 Claim. (Cl. 188—5.)



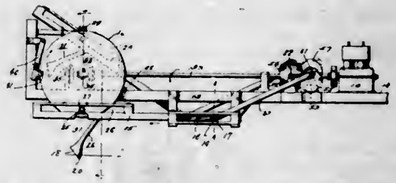
In an anti-skid device for vehicles, two pair of parallel swinging rods secured to the vehicle floor, a pair of oppositely disposed bell-cranks fulcrumed to the vehicle floor, connection between each bell-crank and one rod of each pair of swinging rods, flexible connection between said bell-cranks whereby they are yieldingly retained in a predetermined position, a foot pedal for actuating said bell-cranks, a crank shaft carried by each pair of swinging rods, and a toothed disk carried by each crank shaft.

1,351,751. COMBINATION SLITTER AND PERFORATOR. LESLIE D. HOFF, Newark, N. J. Filed Aug. 19, 1919. Serial No. 318,586. 6 Claims. (Cl. 164—100.)



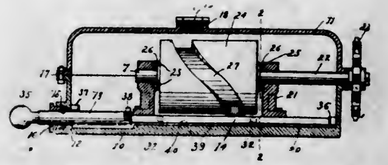
1. A slitting and perforating device for printing presses comprising a cylinder, a band to be affixed to the periphery of said cylinder, and a rotatable wheel having a portion adapted to engage the edge of said band to operate on a sheet being printed, and another portion adapted to engage material on the face of the band to rotate the wheel.

1,351,752. WALKING TRACTOR. EDWARD R. HONEYWELL, Garber, Okla. Filed Aug. 27, 1919. Serial No. 320,282. 8 Claims. (Cl. 180—8.)



1. A propelling apparatus having a prime mover, a reciprocatory pusher member, a shiftable guiding member for directing the pusher member alternately in operative and inoperative paths and consisting of a disk having a sliding connection with the pusher member and means actuated by the prime mover for operating said members in timed relation.

1,351,753. MECHANICAL MOVEMENT. CHARLES F. HOVER, Conrad, Mont. Filed June 30, 1919. Serial No. 307,657. 3 Claims. (Cl. 74—1.)



1. A device of the class described comprising a base having a guide groove therein, spaced bearing brackets secured upon the base and bridging the groove, a rotatable member having a shaft journaled in the brackets, said rotatable member having a cam groove, a bar mounted in the groove of the base for reciprocation therein and having means engaging the cam groove for actuating the bar, the base having transverse channels communicating with its

groove, and plates adjustably mounted in the channels and having bearing rollers disposed to contact respectively with the opposite sides of the bar.

1,351,754. ANTIFRICTION ROLLER AND BALL BEARING. ARCHIBALD B. HUBARD, Ogontz, Pa. Filed Mar. 16, 1920. Serial No. 366,272. 10 Claims. (Cl. 64—39.)

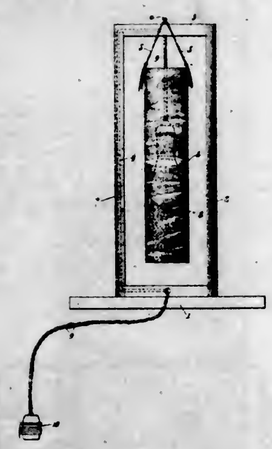


1. An anti-friction bearing comprising inner and outer races, rollers and balls between the races, and a revolvable cage the body of which extends radially between the races and is partially cut away from the reception of the balls and wholly cut away for the reception of the rollers.

1,351,755. PROCESS OF MANUFACTURING HYDROGEN SULFID. KIKUNAE IKEDA, Tokyo, Japan. Filed Nov. 12, 1917. Serial No. 201,666. 6 Claims. (Cl. 23—10.)

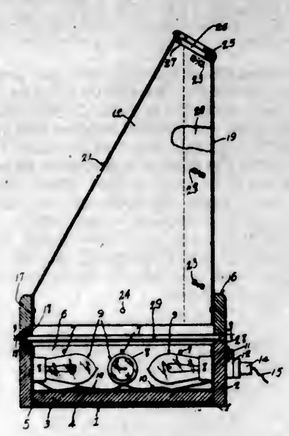
1. The process of manufacturing hydrogen sulfid which consists in causing a reaction of fuel gas and sulfur in the presence of a catalyzer.

1,351,756. LIGHT-FILTER. BEATRICE IRWIN, New York, N. Y. Filed Aug. 22, 1918. Serial No. 250,920. 4 Claims. (Cl. 240—1.)



2. A light filter composed of paper and shaped to screen the light rays from a source of light, the paper having such a thickness and translucency that it renders the source of light substantially invisible therethrough, while permitting sufficient light rays to pass therethrough for lighting purposes and make the broad surface of the paper filter appear as the source of light, the paper having coloring matter of various shades or colors thereon forming a combination of stimulant, sedative and recuperative color values or any two of them, with the colors or shades gradually merging or running into one another to cause the light coming from the filter to be variously colored, the coloring matter being insufficient to decrease the light coming through the filter to render it ineffective for lighting porposes.

1,351,757. EGG-CANDLER. WILL D. ISEMAN, Detroit, Mich. Filed Oct. 31, 1919. Serial No. 334,722. 2 Claims. (Cl. 99—6.)



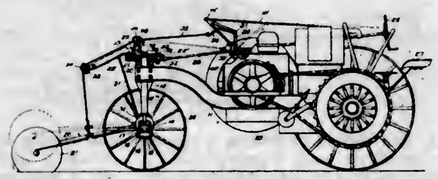
1. An egg candler comprising a base including a frame cut away adjacent its upper edge to form a shoulder, a main bottom within the frame; a false bottom located below the main bottom and having a flange bound between the main bottom and the frame; a box-like reflector located within the frame and supported by the main bottom; a lamp within the reflector; a platform supported on the shoulder and provided with an egg receiving opening; and a top hinged to the base, the top being supplied adjacent to its upper end with a peep hole.

1,351,758. BED-FRAME CONNECTION. BENJAMIN H. JOHNSON and BENSON M. PHELPS, Roanoke, Va.; said Johnson assignor to William S. Phelps, Bluefield, W. Va. Filed May 27, 1918. Serial No. 236,864. 1 Claim. (Cl. 5—55.)



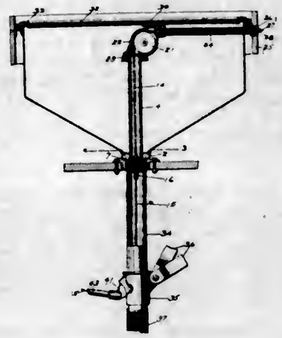
The combination with the corner post of a bed having a vertical lug and a seat at the base of the lug, of an angle iron bed rail having a cross-sectionally rectangular end portion that is cut away at one side with a resultant shoulder and a longitudinal face, there being a vertically extending channel in said face at its free end portion and there being a socket in said face adjacent its inner end portion, a stud bolt projecting from said face between the channel and the socket, a clamping block disposed removably against said face with one end against the shoulder, the inner face of the opposite end portion of the block having a vertical channel in coöperative relation to the first named channel and receiving with it the lug of the post, the block having a lug removably engaged in said socket and having an opening through the block from which the stud bolt projects, and a clamping nut upon the stud bolt beyond the block.

1,351,759. TRACTOR STEERING MECHANISM. EDWARD A. JOHNSTON and EDMUND J. KANE, Chicago, Ill., assignors, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Feb. 11, 1915. Serial No. 7,469. 15 Claims. (Cl. 97—81.)



1. In tractor steering mechanism, an axle, a wheel thereon, furrow pilot steering means connected thereto on the furrow side of the wheel, a rotatable shaft operatively connected to said axle, and means connected to said shaft and rotatable therewith for supporting said furrow pilot steering means.

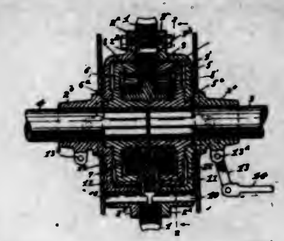
1,351,760. SANDING DEVICE. FRANK W. KALLOM, Malden, and PETER S. TOENNESEN, Everett, Mass. Filed Feb. 3, 1919. Serial No. 274,604. 8 Claims. (Cl. 291—36.)



1. A sanding device, comprising a hopper, a discharge tube extending through the bottom of said hopper and arranged to be raised or lowered relatively to the hopper, means for normally holding said tube in a raised position with the upper end thereof above the level of the sand in the hopper, means for lowering said tube, and a hood within which the upper end of the tube rests when in its elevated position.

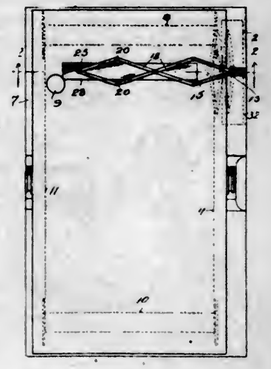
1,351,761. COMPENSATING DRIVING MECHANISM FOR MOTOR-VEHICLES. HARVEY R. KIDNEY, Cleveland, Ohio. Filed June 14, 1919. Serial No. 304,156. 4 Claims. (Cl. 74—7.)

2. In driving mechanism for motor vehicles, the combination with the wheel shafts and power shaft, of automatic means for connecting the latter to both the wheel shafts for forward drive, means operated automatically by the reversal of the power shaft to connect the latter to both wheel shafts for reverse drive, and means for disconnecting the drive of either one of the wheel shafts,



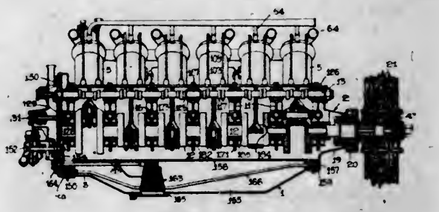
said means being operative independently of the automatic means.

1,351,762. MEANS FOR INSCRIBING UNEXPOSED PHOTOGRAPHIC FILMS, PLATES, OR THE LIKE. BERTELL W. KING, Brooklyn, N. Y. Filed Mar. 11, 1915. Serial No. 13,582. 25 Claims. (Cl. 95—1.1.)



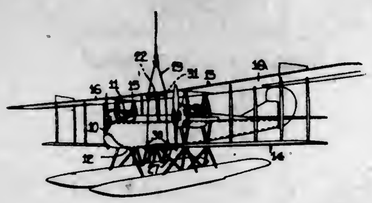
1. A camera adapted to contain a sensitized element in combination with means including lazy tongs and a source of artificial light for identically reproduucing script or other writings upon said sensitized element.

1,351,763. AERONAUTICAL MOTOR. CHARLES B. KIRKHAM, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed May 18, 1916. Serial No. 98,336. 18 Claims. (Cl. 123—195.)



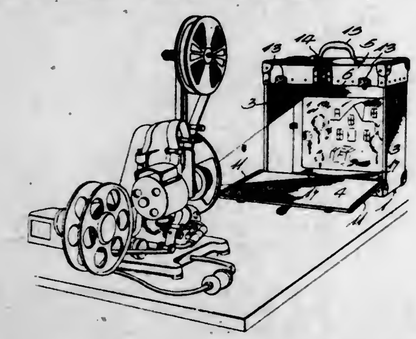
1. In an internal combustion engine, a crank case comprising a transverse reinforcing integrally formed partition, said crank case partition having a transverse opening passing therethrough for the reception of a motor support and an elongated motor support passing through and engaging the walls of said opening and extending laterally beyond the sides of the crank case for engagement with the engine bed.

1,351,764. HOISTING CONNECTION FOR AIRPLANES. HENRY KLECKLER, Hempstead, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed May 4, 1918. Serial No. 232,519. 8 Claims. (Cl. 244—1.)



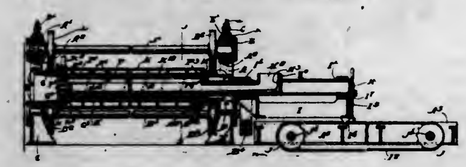
1. The combination, in an airplane, of an airplane wing, a body, and a hoisting connection for the airplane comprising a looped cable having its ends fastened to the body, the cable intermediately of its ends being held apart by an element incorporated in the airplane wing.

1,351,765. CARRYING-CASE FOR MOTION-PICTURE PROJECTORS. CHARLES J. KOCH, Cincinnati, Ohio, assignor to The Sales Service Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 24, 1919. Serial No. 312,883. 2 Claims. (Cl. 88—24.)



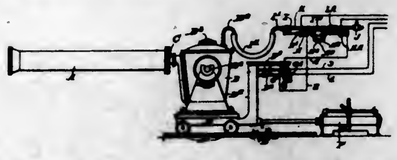
1. A carrying device for motion picture projectors comprising a rectangular case from which the projector is entirely removable for use, the front side of said case being hinged for downward swinging to admit rays from the projector into the case, the top of said case being hinged for upward swinging, guides in the back portion of said case, and a panel held by said guides and removable upwardly when said top is opened, said panel having a screen forming side and being reversible to protect said side when carrying the projector within the case.

1,351,766. CENTRIFUGAL PIPE-CASTING. JAMES B. LADD, Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Nov. 1, 1918. Serial No. 260,656. 11 Claims. (Cl. 22—65.)



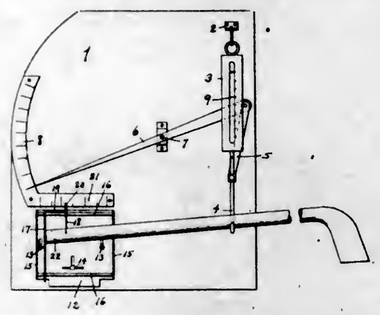
1. In a centrifugal casting machine, the combination with a rotatable mold, of a stationary cooling water jacket shell surrounding the mold and having an inlet at one end and an outlet at the other end for the cooling water, and formed with a spiral internal rib providing a spiral path of flow between said inlet and outlet.

1,351,767. METHOD OF AND APPARATUS FOR CHARGING ROTATING PIPE-MOLDS. JAMES B. LADD, Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Nov. 1, 1918. Serial No. 260,658. 4 Claims. (Cl. 22—65.)



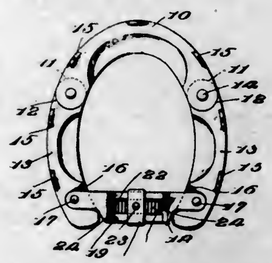
1. The method of making a tubular metal casting in an elongated mold rotating about a horizontal axis, which consists in supplying the molten casting metal to the mold in a jet and progressively varying the jet velocity to distribute the metal along the length of the mold.

1,351,768. TESTING DEVICE FOR GOLF-CLUBS. CHARLES L. LAWTON, Hancock, Mich. Filed Mar. 22, 1920. Serial No. 367,675. 4 Claims. (Cl. 265—33.)



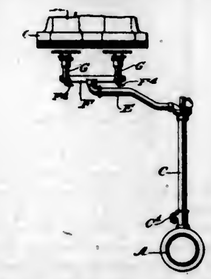
1. In a device for determining the moment of inertia of golf clubs, the combination of a load resisting device for supporting the clubs near their handle ends, an abutment movable toward and from the load resisting device and adapted to prevent the upward movement of said handle ends, and means to indicate the load resisted.

1,351,769. HORSESHOE. MARY C. LEINWEBER, Weimar, Tex. Filed Dec. 26, 1918. Serial No. 268,241. 1 Claim. (Cl. 168—19.)



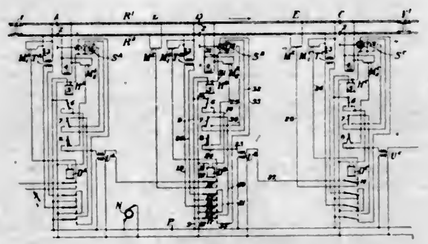
A horseshoe comprising pivoted sections certain of which are formed with terminal recesses and openings therethrough, links pivotally connected to the said certain links and within said recesses, one of the links being longitudinally bifurcated and having teeth formed on one face of each leg thereof, the other link having teeth extending across one face and engaging with the teeth of the first link, said other link having a central opening therethrough, a plate disposed transversely of the bifurcated link and having its ends turned to engage with the outer faces of the legs thereof, said plate having a central internally-threaded tubular extension disposed through the bifurcation of one link and the opening of the other link, and a bolt engaged through the tubular extension, the links, and the plate, from the face opposite to that on which the plate is disposed.

1,351,770. GAS-BURNER FOR PIPE-MOLDS. LOUIS R. LEMOINE, Philadelphia, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Nov. 21, 1918. Serial No. 263,484. 4 Claims. (Cl. 34—18.)



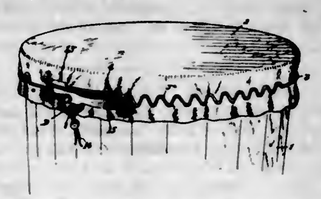
3. A mold drying apparatus comprising means for supporting a multiple number of pipe molds, a gas main, a multiple number of gas delivery pipes leading therefrom, valves connected to said delivery pipes each comprising a fixed member secured to a pipe and a pivoted member turning thereon, burner supporting pipes connected to the pivoted valve members and rotatable from a position in which the burner registers with a mold to a non-registering position, burners supported on said pipes, regulating valves for each burner, said valve members being so arranged as to open when the burner pipes are in registry with a mold and close when they are rotated away from such position.

1,351,771. RAILWAY-TRAFFIC-CONTROLLING SYSTEM. LLOYD V. LEWIS, Edgewood borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 21, 1918. Serial No. 263,607. 13 Claims. (Cl. 246—38.)



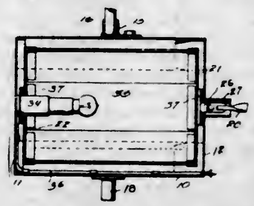
12. In combination, a section of railway track, a track circuit including a source of current and a track relay both of which are connected across the rails of said section, a second circuit including the two rails of said section in multiple, and means comprising a contact of said track relay for opening said second circuit when the relay is energized.

1,351,772. CLAMP. SAMUEL REUBEN LIBBEY, Brady, Mont., assignor of one-half to Sanford H. Severson, Brady, Mont. Filed Nov. 3, 1919. Serial No. 335,884. 4 Claims. (Cl. 24—256.)



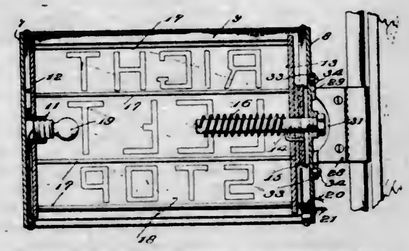
4. A fastener for fastening flexible covers on tubs, comprising a wire adapted to embrace the cover on the tub, and a clamp for connecting the ends of the wire, said clamp consisting of two members pivoted together at one end to swing with respect to each other in parallel planes, one end of the wire being connected to one of the members at the other end, and the other member having at the said other end a grip or handle, the other end of the wire being connected to said other member intermediate the ends thereof, and means for limiting the closing movement of the members to a position where they are superposed.

1,351,773. AUTOMOBILE SAFETY-SIGNAL. HARVEY R. DEILEY, Bethlehem, Pa., assignor of one-half to John T. Lindstrom, Allentown, Pa. Filed July 8, 1918. Serial No. 243,891. 1 Claim. (Cl. 116—49.)



A safety signal comprising a housing having heads closing its ends, an indicating drum rotatably mounted in the housing and having heads provided with inwardly extending flanges, cleats extending from the heads of the drum in operative relation to the flanges, panels positioned between the heads of the drum and engaged by the flanges and cleats, and washers of resilient material positioned between the heads of the drum and heads of the housing to move the heads of the drum toward each other for tight engagement with the panels and further providing frictional brake means for the drum.

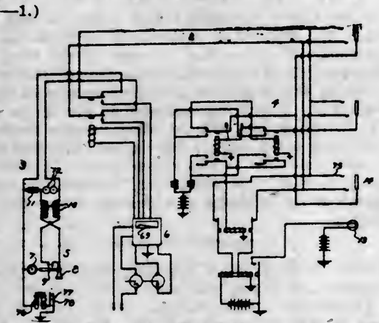
1,351,774. DIRECTION-INDICATOR. JOHN T. LINDSTROM, Allentown, and HARVEY R. DEILEY, Bethlehem, Pa.; said Deiley assignor to said Lindstrom. Filed Apr. 30, 1919. Serial No. 293,803. 1 Claim. (Cl. 116—48.)



A direction indicator including a housing having a side opening, heads closing the ends of the housing, a movable indicator in the housing, and a supporting bracket

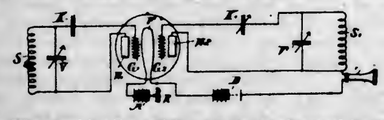
positioned in axial alinement with the housing and having a head fitting against one head of the housing and provided with arcuate slots, and securing screws passing through the slots to adjustably connect the bracket head with the casing head and releasably hold the bracket in an adjusted position and limit turning movement of the bracket.

1,351,775. SYSTEM OF TRANSMITTING INTELLIGENCE. GEORGE A. LONG, Hartford, Conn., assignor of one-fourth to Charles Soby, Hartford, Conn., and one-fourth to The Gray Telephone Pay Station Company, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 3, 1917. Serial No. 184,235. 14 Claims. (Cl. 179—1.)



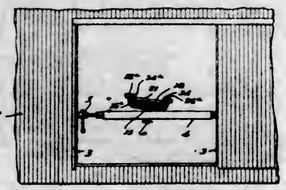
1. A system of the class described comprising a station having a telephone and an instrument for the transmission of written intelligence, a second station also having a telephone and having an instrument for the receipt of such written intelligence, a central station having a telephone switchboard provided with means to connect the two telephones, and means to be set in action by the subscriber at the first station for cutting the telephone thereat off the line and for simultaneously cutting the instrument thereat into the line.

1,351,776. OSCILLATION-GENERATOR SYSTEM. CHARLES VEYNE LOGWOOD, New York, N. Y. Filed Feb. 21, 1917. Serial No. 150,221. 6 Claims. (Cl. 250—8.)



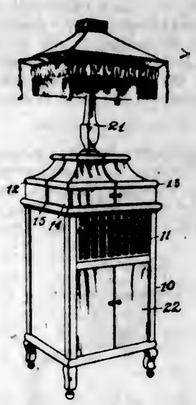
1. The combination with an evacuated vessel having associated therewith a hot electrode and a plurality of cold electrodes, a circuit connecting two of said cold electrodes, an independent oscillating circuit connecting two of said cold electrodes, and a third circuit including a current source conductively connecting said hot electrode to one of said circuits.

1,351,777. LUMBER AND TIMBER GRADING MACHINE. JOSEPH G. MCDONOUGH, Eau Claire, Wis. Filed Nov. 20, 1916. Serial No. 132,470. 29 Claims. (Cl. 101—8.)



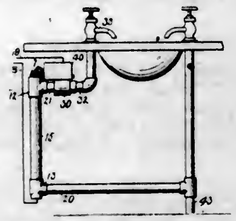
1. A device of the class described comprising a support having a surface to receive the lumber or timber to be marked and mounted to rock on a transverse axis under weight of the lumber, and means for identifying a surface of the lumber or timber on said support.

1,351,778. TALKING-MACHINE CASE. CHARLES J. MALMBERG, Jamestown, N. Y. Filed Dec. 6, 1919. Serial No. 342,889. 2 Claims. (Cl. 211—16.)



2. In a talking machine case, a body having a top, a stationary part at the rear of the body extending upwardly from the top thereof to form a part of a cover for the top, said cover part being cutaway on its front so as to leave the entire front half of the top of the body exposed and having parts which extend around the rear half of the body top and a top part in spaced relation thereto, movable cover parts which conjointly when closed cover the front half of the body top, and means to hingedly mount said movable cover parts so that same may be swung free of the front half of the body top so that light coming from above the stationary part will strike the front half of the body top.

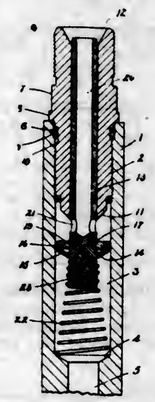
1,351,779. ELECTRIC HEATER. ALONZO C. MATHER, Chicago, Ill. Filed Nov. 25, 1918. Serial No. 263,966. 3 Claims. (Cl. 219—39.)



2. A device of the character described comprising, a pipe, T-fittings on either end of said pipe, inlet and outlet pipes connected with the said fittings, a tube located in said first mentioned pipe, said tube having a conical surface formed on one end thereof, one of said T-fittings having a conical aperture formed therein to receive said conical end of the tube, a stuffing box located in the opposite one of said T-fittings, a removable gland nut in said stuffing box adapted to embrace the tube whereby the tube may be removed through the stuffing box, a resistance wire extending through the said tube, and an electric circuit for heating the resistance wire.

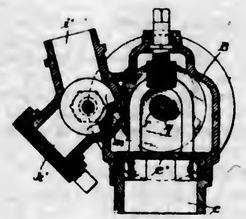
1,351,780. AIR-VALVE. WILLIAM CHARLES MEAD, Toronto, Ontario, Canada. Filed June 14, 1920. Serial No. 388,757. 2 Claims. (Cl. 152—12.)

1. In an air valve, a valve seat having a tapered surface and an opening through the center, a valve having a tubular stem extending through said central opening and provided with lateral openings adapted when the valve is pushed inwardly to move beyond the valve seat to permit the free flow of air having a cup-shaped inner end



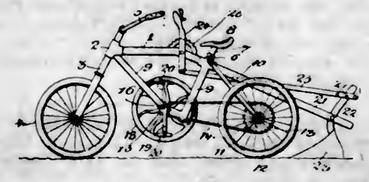
formed with a tapered bottom inner wall, and a gasket supported from the outer perimeter of the tapered bottom and in perpendicular relation to the stem of the valve, said gasket being adapted to engage the tapered valve seat and to be depressed into the tapered head of the valve.

1,351,781. FIRE-PLUG. THOMAS H. MEUSHAW and CONRAD J. DIEZ, Baltimore, Md. Filed Sept. 11, 1919. Serial No. 323,063. 2 Claims. (Cl. 137—13.)



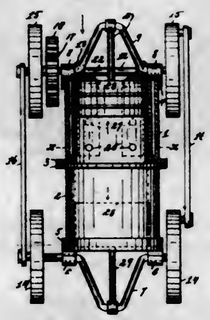
1. A connection for fire plugs comprising a head adapted for connection with the plug, said head having a main pipe for direct connection with the engine, a valve for controlling the flow from said main pipe, two couplings supported from the head, one for the return pipe from the engine, and the other for the outlet to the nozzle, and a three-way valve for closing the outlet from the engine and making a direct connection from the head to the nozzle to cut out the engine or for causing the flow through the engine when the main outlet valve is open, substantially as described.

1,351,782. PLOW. ALEXANDER MITCHELL, Pueblo, Colo. Filed Mar. 5, 1918. Serial No. 220,538. 1 Claim. (Cl. 97—36.)



A wheeled vehicle including a seat post, a draw bar extending rearwardly and downwardly from the seat post to a point beyond the rear wheels, a substantially upright standard pivoted intermediate its ends to the rear end of said draw bar and carrying an earth engaging blade at its lower end, an operating lever pivoted to the frame of the vehicle forwardly of said seat post, and a link connected at one end to said lever and being pivotally and adjustably connected at its opposite end to said standard.

1,351,783. INTERNAL-COMBUSTION ENGINE. ALFRED MOEGLIN, Newark, N. J. Filed Sept. 19, 1917. Serial No. 192,065. 2 Claims. (Cl. 123—51.)

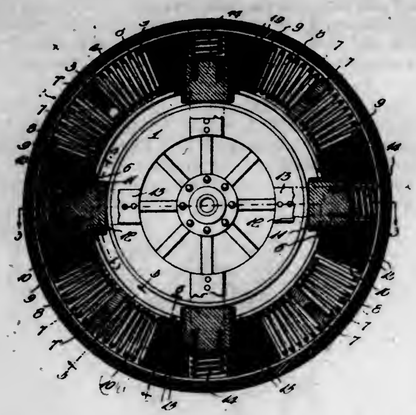


2. In an internal combustion engine, the combination with a cylinder having intake and exhaust ports, said intake and exhaust ports being located in line with each other in said cylinder, a single movable piston located in each end of said cylinder, a rotatable crank-shaft located in bearings on each end of the cylinder operatively connected with each piston, a connecting rod operatively connected to said crank-shafts, a rotary valve operating shaft mounted in bearings on one end of the cylinder, a gear carried by the crank shaft meshing with a gear carried by the rotary valve operating shaft for revolving said valve operating shaft once to every two revolutions of the said crank shaft, beveled gears carried by said valve operating shaft, two rotary valves fitted into a valve casing which is secured to the underside of the cylinder, each valve having a passage one for intaking and the other for exhausting charges, said passages communicating with the intake and exhaust ports of the said cylinder, and beveled wheels secured to the free ends of the rotary valves for engagement with the beveled wheels on the valve operating shaft for imparting rotary motion to said rotary valves for alternately registering the passages of said rotary valves with the intake and exhaust port in said cylinder.

1,351,784. SPRING-CUSHION TIRE. GEORGE ORBIN, Hoboken, Pa., assignor of one-third to Charles Milton Hays, Hoboken, Pa. Filed Feb. 19, 1920. Serial No. 360,005. 4 Claims. (Cl. 152—38.)

3. A spring tire comprising a casing having a plurality of elongated slots formed in its inner periphery at spaced intervals, and partitions secured transversely in the casing at points between the slots, circumferentially extending coiled springs, bearing at one end against the partitions, circular movable plates contacting the other ends of the springs, arcuate plates, including integral sockets, the ends of the arcuate plates normally bearing against said circular plates to move them against the action of the circumferential coiled springs, said sockets extending through and beyond the slots, a plunger disposed in each socket the sides thereof being spaced from the walls of the socket, a wheel, guide plates secured on opposite sides

of the rim of the wheel and extending into the spaces between the plungers and walls of the sockets, and a coiled



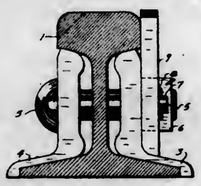
spring and resilient blocks between each arcuate plate and casing.

1,351,785. MULTIFOCAL OPTICAL ELEMENT AND METHOD AND MEANS FOR MAKING THE SAME. ARTHUR E. PAIGE, Philadelphia, Pa. Filed Oct. 22, 1919. Serial No. 332,525. 23 Claims. (Cl. 88—54.)



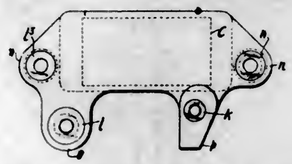
1. An optical element having one side surface including a spherical area and an area with a cylindrical component.

1,351,786. NUT-LOCK AND RAIL-JOINT PROTECTOR. PETER JOHAN ADOLF PETERSON, Pine River, Minn., assignor of one-half to Olaf B. Orres, Pine River, Minn. Filed May 26, 1919. Serial No. 299,811. 1 Claim. (Cl. 238—262.)



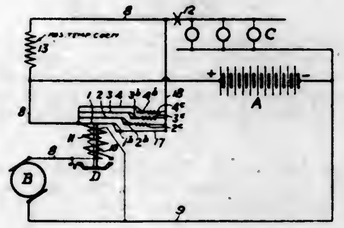
In combination with the meeting ends of a pair of railway rails, fish plates, bolts connecting said fish plates to the rails, nuts for said bolts, one cover plate for each pairs of fish plates, said cover plate being formed with a plurality of square perforations adapted to snugly receive the said nuts when the cover plate is applied to one of said fish plates and to said bolts, said cover plate, when in position, extending from the base of one fish plate to the level of the tread surface of the railway rails at the rail ends, and fastening means for said cover plate.

1,351,787. CONDENSER UNIT AND METHOD OF MAKING THE SAME. WILLIAM H. RICHTER, Philadelphia, Pa., assignor to Arthur Atwater Kent, Ardmore, Pa. Filed July 14, 1919. Serial No. 310,796. 17 Claims. (Cl. 250—41.)



16. A condenser unit consisting of a rigid unitary structure of insulating material and a condenser molded in and held compressed solely by said structure.

1,351,788. CAR-LIGHTING SYSTEM. HARRY D. ROHMAN, New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Filed Apr. 23, 1917. Serial No. 163,815. 4 Claims. (Cl. 171—313.)



4. In a car lighting system, the combination of a dynamo, a battery, translating devices, a cut-in switch, and a plurality of resistances between the dynamo and the translating devices, said resistances being arranged to be connected in parallel and to be successively disconnected by the cut-in switch as it closes and to be successively connected by said switch as it opens as and for the purpose set forth.

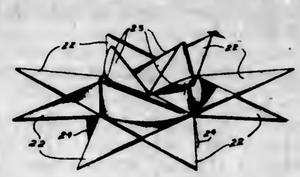
1,351,789. METHOD OF FITTING ARTIFICIAL LIMBS. JAMES F. ROWLEY, Chicago, Ill. Filed Jan. 27, 1919. Serial No. 273,397. 3 Claims. (Cl. 3—2.)



1. The method of obtaining a cast of the stump of an amputated limb, which consists in providing a matrix base formed of stretchable fabric, coating the same with wax, and while the wax is soft, pulling on said base longitudinally of the stump of the limb, manipulating the stump with the hands so as to displace the fleshy parts of the leg and to cause said base to be shaped substantially as said stump would be normally when in place in a stump socket, allowing the wax to harden, then removing said base and filling the same with plastic material to form the cast.

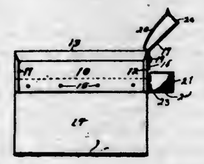
1,351,790. CHRISTMAS-TREE ORNAMENT AND METHOD OF MAKING SAME. WILLIAM R. RUDOLPH, Glenbrook, Conn. Filed June 24, 1919. Serial No. 306,338. 3 Claims. (Cl. 41—10.)

3. The method of forming a Christmas tree ornament consisting of interweaving a plurality of doubled strips of paper, folding the strips on oblique lines adjacent the interweaving, tucking the ends through the interweaving,



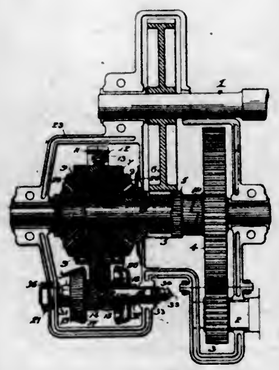
and folding the ends on both sides of the interweaving into conical members and tucking the ends in the interweaving.

1,351,791. GATHERING CONVEYER-BUCKET. HERBERT W. SARGENT, Fort Dodge, Iowa, assignor to Sargent Tile Ditcher Company, Fort Dodge, Iowa, a Corporation of Iowa. Filed June 19, 1919. Serial No. 305,244. 5 Claims. (Cl. 193—28.)



1. A gathering conveyer bucket, comprising a base element formed with a cutting edge, a concaved wing fixed to said base element opposite the cutting edge thereof, and gathering means fixed to and extending obliquely from one end of the base element adjacent said cutting edge, said gathering means extending forwardly and outwardly from such end of the base element.

1,351,792. BRAKE MECHANISM FOR HOISTING MACHINERY. HARRY SAWYER, Muskegon, Mich., assignor to Shaw Electric Crane Company, Muskegon, Mich., a Corporation of Michigan. Filed July 12, 1916. Serial No. 108,829. 9 Claims. (Cl. 57—116.)



1. In an automatic brake mechanism, a brake member, right and left helical gears carried thereby, helical right and left pinions respectively engaged by said gears to be moved thereby endwise toward and from each other, a friction cone associated with each pinion and fixed cone seats to coöperate with said cones.

1,351,793. BALL-MILL. EDWIN H. SCHMIDT, Inspiration, Ariz. Filed May 9, 1919. Serial No. 295,938. 5 Claims. (Cl. 83—9.)



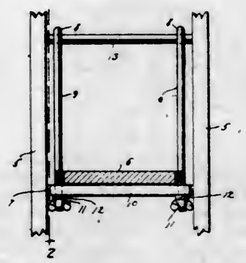
1. In a ball mill, a shell, liners mounted on the inside of said shell, and a sentinel device provided with a bore associated with said shell, which, when worn away a certain amount, allows material to escape from the inside of said shell to the outside thereof.

1,351,794. SHOT-FIRING DEVICE. WILLIAM F. SCHMIDT, Freeburg, Ill. Filed Sept. 5, 1919. Serial No. 321,830. 1 Claim. (Cl. 102—8.)



A fuse split at its free end, a match comprising a body portion and a coating thereon, a coating of powder on the end of said match disposed in the split end of the fuse, and a wrapping over the split end of the fuse, the powdered end of the match serving as a squib.

1,351,795. ATTACHMENT FOR LADDERS. FRITZ W. SCHNABEL, Chicago, Ill. Filed Mar. 29, 1920. Serial No. 369,707. 2 Claims. (Cl. 304—3.)

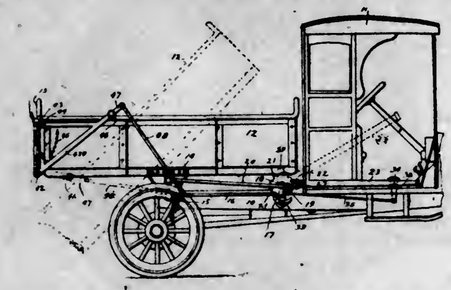


1. The combination with a pair of ladders placed face to face in spaced relation, and a platform extending between said ladders and supported at its ends by one of the rungs thereof; of hooks hung on rungs of the ladders above the aforesaid rungs supporting the platform, said hooks having depending shanks straddling the platform, and cross-bars carried by the shanks, on which cross-bars the platform also seats.

1,351,796. DUMPING-VEHICLE. FREDERICK C. SCHOFIELD, Salem, Va., assignor, by direct and mesne assignments, to The Hillfield Body Company, Salem, Va., a Corporation of Virginia. Filed Feb. 17, 1919. Serial No. 277,669. 2 Claims. (Cl. 298—19.)

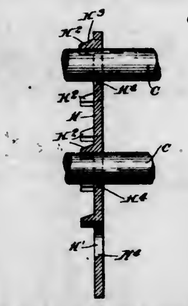
1. In a dumping vehicle, the combination of a chassis, a body, a driver's cab whose rear is forward of but close to the front of the body, a bracket at each side of the

body extending downward below the bottom thereof and pivoted to the chassis at a fixed point, whereby the body has only a swinging motion, a rotary member situated forward of said pivot, an operative connection between one of said brackets and said member to swing the body on said pivot, means accessible to the driver in the cab,



to rotate said member, driver-operated means to prevent the rotation of said member, a shaft on which said rotary member is mounted, extending transversely of and supported by the chassis beneath the body, a hook carried by said shaft and a part on the bottom of the body into and out of engagement with which said hook moves when the shaft is turned.

1,351,797. METALLIC BAFFLE-PLATE. WILLIAM F. SELLERS, Wilmington, Del., assignor to Edge Moor Iron Company, Edgemoor, Del., a Corporation of Delaware. Filed Oct. 11, 1918. Serial No. 257,731. 3 Claims. (Cl. 110—98.)

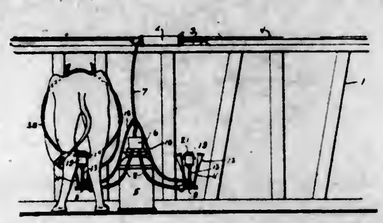


3. As a new article of manufacture a cast metallic plate for use in a baffle wall traversed by the water tubes of a water tube boiler, said plate being formed with lugs projecting from one side of the plate along the upper side only of the margin of each boiler tube opening, said lugs being formed with concave lower sides to fit the tops of the tubes and with tapered upper sides, and said plates being also formed with boiler tube openings which below the lugs have walls flaring in the direction of the lugs.

1,351,798. STRIPPING DEVICE FOR MILKING-MACHINES. WARREN A. SHIPPERT, Chicago, Ill. Filed Nov. 15, 1917. Serial No. 202,137. 23 Claims. (Cl. 31—98.)

1. A device of the class described, comprising a telescopic member, capable of being extended by suction within the same; and suction and pressure mechanism adapted to intermittently create a suction within said member and relieve the same; and means for holding said member in a normally closed position.

6. A device of the class described, comprising a hollow rod capable of being attached to the teat-cup apparatus of a milking machine; a casing telescopically movable on said rod and capable of movement thereon under suction; means communicating with said casing through said rod for exhaustion of the air from said casing; and yielding means for holding said casing normally in a retracted position on said rod.

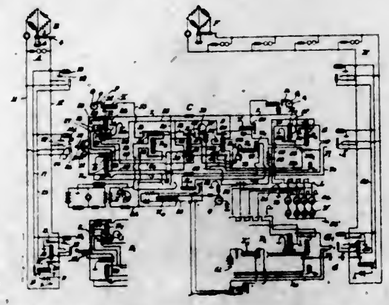


7. A device of the class described, comprising a hollow rod adapted for attachment to the teat-cup apparatus of a milking machine; a casing telescopically movable on said rod and capable of movement thereon under suction; and means for exhausting the air from said casing communicating therewith through said rod by way of a continuous valveless passage.

15. In a stripping device for cow milking machines, a cylindrical shell provided with a convex cap; a plunger therefor comprising a pair of flexible cup-shaped members, spaced apart and forming an oil receptacle, means for holding the edges of said members in distended positions; and a stem for said plunger extending through the end of said shell and having an air-tight relation therewith.

20. A device of the class described, comprising a teat-cup apparatus; mechanism for creating a vacuum therein and relieving the same; a telescopic member associated with said teat-cup apparatus, so as to be actuated by the suction therein, in position for impact with the udder of a cow, centrally of such apparatus; and means for holding said member normally in an inoperative position when the amount of suction exerted in said apparatus is below a predetermined degree.

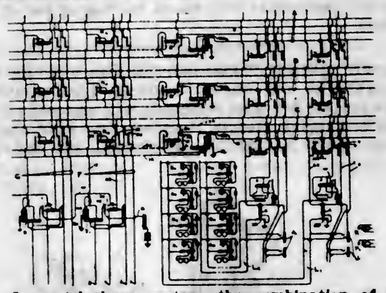
1,351,799. TELEPHONE SYSTEM. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Original application filed May 15, 1915, Serial No. 28,251. Divided and this application filed Dec. 26, 1916. Serial No. 138,710. 8 Claims. (Cl. 179—9.)



1. In a telephone system, the combination with a connection register, a calling telephone line, a called telephone line, a link circuit for interconnecting the lines, a calling subscriber's supervisory relay and a called subscriber's supervisory relay, an operator's listening relay under the joint control of the said calling and called subscribers' supervisory relays, means to cause the said calling subscriber's supervisory relay and the said operator's listening relay to automatically operate when connection is made with a calling subscriber's line, under the control of the calling subscriber's substation apparatus, a register circuit for the said register comprising normally open

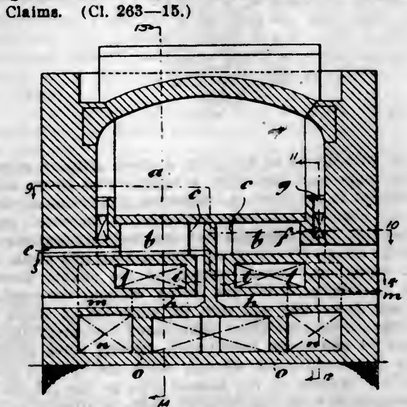
contacts of the said listening relay and of the said calling subscriber's supervisory relay and normally closed contacts of said called subscriber's supervisory relay, and means to cause the actuation of the called subscriber's supervisory relay when connection is made with a line of the called subscriber, by the said link circuit.

1,351,800. TELEPHONE SYSTEM. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 31, 1917. Serial No. 158,863. 45 Claims. (Cl. 179—27.)



1. In a telephone system, the combination of interconnecting trunk circuits, relays to interconnect said trunk circuits, relays to prevent one of said trunk circuits being connected with more than one of said interconnecting trunks at a time to incoming call circuits, relay means to interconnect one of said trunks to said incoming call circuit, and delayed disconnect means to disassociate said incoming call circuit and said trunk circuit.

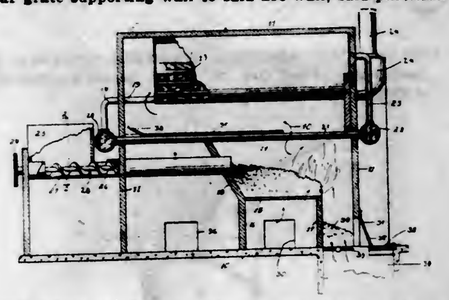
1,351,801. FURNACE. ALFRED SMALLWOOD, London, England. Filed July 31, 1918. Serial No. 247,645. 5 Claims. (Cl. 263—15.)



1. A furnace adapted to be heated by gaseous or liquid fuel, including in combination with a goods chamber, means for introducing air for primary combustion, and means independent of said first named means for introducing air for secondary combustion at a point removed from the point of primary combustion.

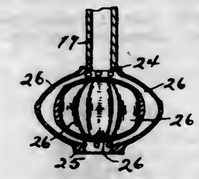
1,351,802. BOILER-FURNACE. LINCOLN G. SMITH, Des Moines, Iowa. Filed Feb. 3, 1919. Serial No. 274,799. 2 Claims. (Cl. 110—1.)

1. In a boiler furnace, a furnace inclosure, a tubular boiler member mounted in the upper portion thereof, a substantially horizontally disposed fire wall extended across the inclosure in position spaced below the boiler member with its front edge spaced rearwardly from the front wall of the inclosure, spaced transverse walls disposed below said fire wall, a grate extended between and supported on said transverse walls in position spaced below the fire wall, a closure partition extended from the rear grate supporting wall to said fire wall, said partition



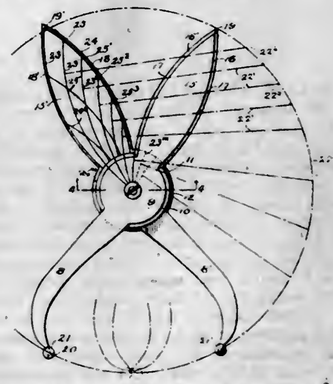
being spaced rearwardly from the front edge of the fire wall thereby forming a pocket and means for forcing fuel through said partition out on to the grate, whereby gas formed in the pocket below the fire wall must escape around the front edge of the fire wall where it will be exposed to the flames from the burning fuel on the grate.

1,351,803. HOT-BLAST DOWNDRAFT-FURNACE. JONATHAN J. SMITH, Des Moines, Iowa, assignor of one-half to Oscar F. Petersen, Des Moines, Iowa. Filed Mar. 5, 1919. Serial No. 280,693. 3 Claims. (Cl. 299—141.)



1. A pipe adapted to be suspended within a furnace and a nozzle device suspended on said pipe, said nozzle device having opposed spaced collars, one opening to said pipe and the other opening to said furnace, and intermediate, wholly outwardly arched communicating tubular members opening at their ends only to said collar members.

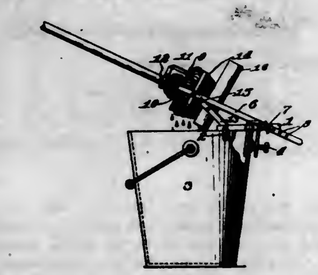
1,351,804. MEASURING-CALIPERS. KNUT ELVING SOLBERG, Philadelphia, Pa. Filed May 14, 1919. Serial No. 297,012. 11 Claims. (Cl. 33—148.)



1. In measuring calipers, a pair of caliper legs having pivoted bearing portions and extensions beyond said por-

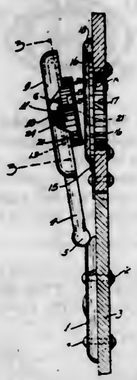
tions adapted to overlie one another when the caliper measurements are small, one extension having graduations corresponding to the edge of the other extension and equidistantly spaced to indicate different predetermined spacings between the work contact ends of said legs.

1,351,805. MOP-WRINGER. FREDERICK SPECKMAN, St. Louis, Mo. Filed Dec. 29, 1919. Serial No. 348,132. 4 Claims. (Cl. 15—12.)



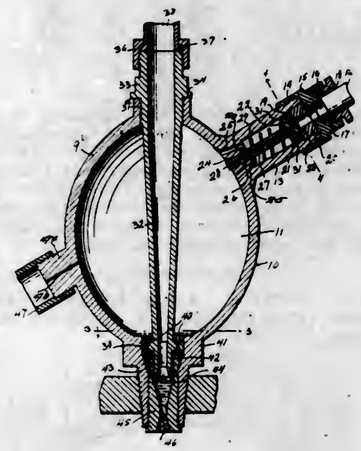
2. A support, a mop receiving member pivotally secured thereto, and means for pressing a mop into said mop receiving member, said means comprising a bracket pivotally mounted on said support and a member secured to said bracket and adapted to engage the head of a mop and press it into said receiving member when the handle of said mop is pressed downwardly.

1,351,806. LOCK. JOHN I. STERN, Waukegan, Ill. Filed Nov. 5, 1917. Serial No. 200,337. 2 Claims. (Cl. 70—55.)



1. In a lock, a hinged leaf formed with graduations and with an elongated perforation, a perforate casing carried by said leaf, one of the perforations in said casing being a "sight perforation," a winged plate formed with a depression to receive said casing, an inverted U-shaped yoke carried by said plate for disposal in one perforation in said casing, an anchor lug formed in said casing diametrically opposite the yoke-receiving perforation, a notched tumbler casing disposed in the first named casing, the notched portion thereof being in engagement with the said anchor lug, an extension formed upon said tumbler casing for releasable engagement with the said yoke, notched tumblers within said tumbler casing, the notched portions of said tumblers being adapted for releasable engagement with said anchor lug, said tumbler casing being slidable relative to said first named casing, in one position of the latter, through gravity to cause disengagement of said tumbler-casing-extension from said U-shaped yoke and engagement of the notched portions of the tumblers with said anchor lug, a pronged washer arranged upon each tumbler within said tumbler casing, the prongs of said washers being spaced apart for engagement with the said anchor lug, lugs formed upon said tumblers for engagement with each other, an indicator disposed in the elongated portion of said hinged leaf and formed of two cup-shaped portions each provided with a flange which flanges are disposed upon opposite sides of said hinged leaf, one of said flanges fitting snugly inside the periphery of said tumbler casing whereby sliding movement of said tumbler casing may be manually effected, and a lug formed in said last named indicator flange for engagement with one of the lugs of one of said tumblers.

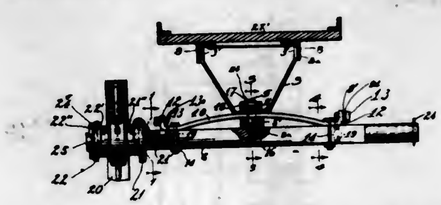
1,351,807. LUBRICATING DEVICE FOR VALVES AND CYLINDERS OF SUPERHEATING-LOCOMOTIVES. HOWARD MC STEVENS, Somerset, Ky., assignor of one-half to Ralph T. Hodges, Somerset, Ky. Filed Apr. 28, 1919. Serial No. 293,274. 18 Claims. (Cl. 184—56.)



10. In a device as set forth, a steam cylinder, a steam chest connecting therewith, a super-heated steam supp'y connected to the chest, a lubricating gun casing having a mixing chamber and being connected to the chest, means connecting the mixing chamber and the super-heated steam supply, means for conveying combined oil and steam into the casing, and means connecting the mixing chamber and the interior of the gun casing, whereby the combined oil and steam may mix with the super-heated steam and be injected into the chest, said means for conveying combined oil and steam including a drifting valve provided with peripheral ports, whereby when the valve is closed and the throttle of the booster pipe in the cab on the lubricator is open, considerable steam is allowed to pass through the combined steam and oil means, while the engine is drifting to equalize the pressure on both sides of said valve, and means acting to close the valve when the pressure is equalized on both sides thereof.

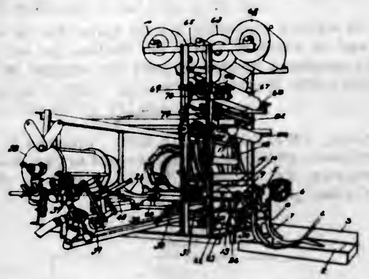
1,351,808. TRUCK. WILLIAM E. SULLIVAN, Roodhouse, Ill. Filed July 29, 1918. Serial No. 247,210. 3 Claims. (Cl. 280—116.)

1. A truck of the character described, including a front axle having a plain bar adapted to be formed from rolled stock, disposed lengthwise on its upper side, said bar being bowed upward medially and its tips being turned upward adjacent to its corresponding bearing points where the bar is secured to the axle, a forked tongue having rearwardly divergent arms pivotally connected to the upturned tips of said bar respectively for vertical



swinging thereon, and a king-pin for securing the body of the truck to the middle part of said bar and axle.

1,351,809. WRAPPING-MACHINE. FORREST A. SUTHERLAND, Millinocket, Me., assignor to Great Northern Paper Company, Millinocket, Me., a Corporation of Maine. Filed Nov. 13, 1917. Serial No. 201,863. 18 Claims. (Cl. 93—5.)



1. A machine for wrapping rolls of paper, having, in combination, wrapping mechanism for said rolls, and mechanism for feeding said rolls to said wrapping mechanism constructed and arranged to be set into operation by the presence of one of said rolls in position to be fed thereby.

10. A machine for wrapping rolls of paper, having in combination, wrapping mechanism constructed to cover the peripheral surface of a roll with a wrapper leaving tubular wrapper extensions projecting beyond the opposite ends of the roll, means for moving a roll so wrapped away from said mechanism, and additional means arranged to operate on the roll after its removal from said mechanism to crimp said end extensions and apply headers to the opposite ends of the roll.

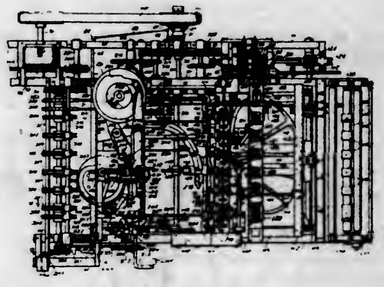
1,351,810. FENCE-MACHINE. JOSEPH H. TAUSCH, Chicago Ridge, Ill., assignor to George Gorton, Racine, Wis. Filed Jan. 24, 1916, Serial No. 74,010. Renewed Jan. 28, 1920. Serial No. 354,751. 97 Claims. (Cl. 140—5.)

1. In a twisted cable and picket fence machine, means for feeding a plurality of pairs of wires therethrough, means for positioning pickets between said wires, and reciprocating twister heads arranged to closely approach a positioned picket and twist said wires to secure the same in place, substantially as described.

26. In a fence machine, a rotatable twister head having wire openings extending therethrough, and a removable plate on one end of said head provided with an opening forming a twisting recess, substantially as described.

36. In a fence machine, means for feeding wires therethrough in pairs, means for twisting said wires to secure pickets therein, means for doubling certain of said pickets centrally, a removable curved guide adapted to guide the ends of said doubled pickets between said wires, and means for again twisting said wires to secure said doubled ends, substantially as described.

42. As a means for positioning sinuously formed objects, a support therefor, and a finger arranged to engage a sinuosity of said object and force it into a certain position, substantially as described.

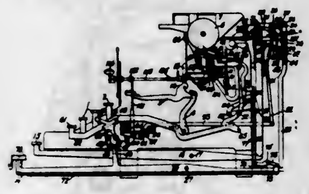


69. A feed mechanism for a wire fence machine, comprising sprockets adapted to engage pickets of a fence, and means for holding pickets against springing over the sprocket teeth, substantially as described.

1,351,811. ALLOYS HAVING HIGH MECHANICAL, CHEMICAL, AND ELECTRICAL RESISTANCE. ARRIGO TEDESCO, Turin, Italy, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy, a Company of Italy. Filed Mar. 6, 1919. Serial No. 281,084. 1 Claim. (Cl. 75—1.)

An alloy having high mechanical, chemical and electrical resistance, comprising nickel in proportion of about one half of the final alloy, copper in proportion between 35 and 44 per cent. iron in proportion between 1.5 and 4.75 per cent. and tungsten in proportion between 3 and 6 per cent.

1,351,812. TYPEWRITING-MACHINE. EDWARD THOMAS, New York, N. Y., and BURNHAM C. STICKNEY, Elizabeth, N. J., assignors to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Original application filed Dec. 21, 1916, Serial No. 138,159. Divided and this application filed Dec. 19, 1918. Serial No. 267,440. 17 Claims. (Cl. 197—157.)

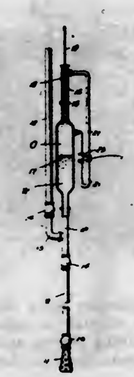


1. In a typewriting machine, the combination with a traveling carriage, printing keys, and column-selecting keys, of means whereby the typewriting mechanism may be effective to print in more than one color, devices whereby in a given column certain printing keys normally print in one color and other keys normally print in another color, and means under the control of the column-selecting keys for causing printing by all said keys to be done in a single color in said column.

1,351,813. PUMP. WILLIAM R. TWIFORD, Manville, Wyo. Filed Jan. 3, 1920. Serial No. 349,181. 5 Claims. (Cl. 103—75.)

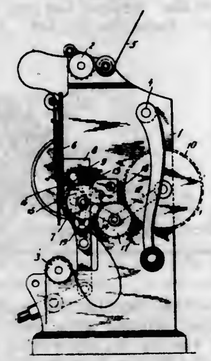
1. In a pump, the combination with a water pipe leading from the well to a point of delivery and having valve

means therein to prevent the downward flow of water in the pipe, of a pump barrel connected to the pipe and extending upward from the point of connection at one side of the water pipe, a body of oil maintained permanently



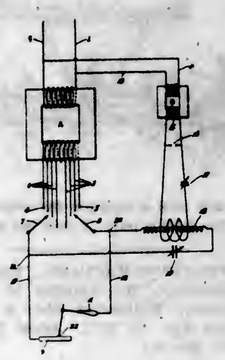
in the upper portion of the barrel, the said upper portion of the barrel constituting a pump cylinder, a reciprocating piston in the cylinder immersed in the oil, and means to maintain a suitable supply of oil both above and below the piston.

1,351,814. FRAMING MECHANISM FOR MOVING-PICTURE MACHINES. THEODORE F. UHLEMANN, New York, N. Y., assignor to Nicholas Power Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 29, 1918. Serial No. 264,686. 8 Claims. (Cl. 88—17.)



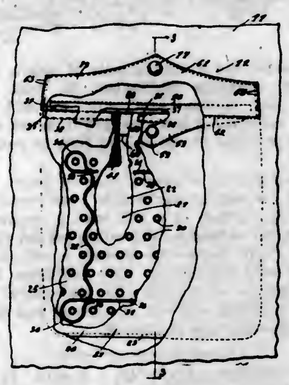
1. In a framing mechanism for moving picture machines, the combination of a driving sprocket for the film, an adjustable support for said sprocket, a driving gear for said sprocket having a fixed axis of rotation, gears for transmitting the rotation of said fixed gear to said sprocket, means for maintaining the center of said gears at fixed distances from each other, and means for controlling said gear connection to prevent rotative movement of said sprocket from the movement of its support.

1,351,815. APPARATUS FOR AND METHOD OF WELDING. EDMUND J. VON HENKE, New York, N. Y. Filed Jan. 18, 1919. Serial No. 271,910. 12 Claims. (Cl. 219—15.)



1. In welding apparatus, a main source for the welding arc, and an auxiliary source for starting the arc permanently connected in parallel with the arc and of higher frequency than the main source.

1,351,816. PROTECTIVE POCKET. CHARLES C. WAIS, Cincinnati, Ohio, assignor of one-half to Carl Schwerin, Covington, Ky. Filed Oct. 1, 1918. Serial No. 256,426. 8 Claims. (Cl. 2—15.)



1. In a device of the character described, the combination of an outer pocket, an inner protective pocket having a mouth arranged to be entered through the mouth of said outer pocket, spaced-apart cross-strips extending across said mouth of said inner protective pocket, said cross-strips spaced from the respective ends of said inner protective pocket, and a flap for said mouth of said inner protective pocket.

1,351,817. DISPLAY-STAND. JAMES MADISON WALTERS, Los Angeles, Calif. Filed Feb. 6, 1920. Serial No. 356,610. 1 Claim. (Cl. 211—24.)

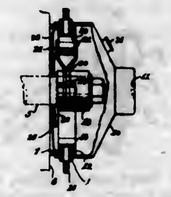
A display stand comprising a standard and an attachment for connection with the standard for supporting garments having shoulder straps, the attachment comprising a yoke shaped member consisting of a body having means for engaging the top of the standard, and arms extending upwardly from the body and spaced apart to register with the shoulder straps of the garment to

be supported and of a length to hold the garment with the upper line of the bosom thereof above the body of the attachment, each arm having a shoulder-piece detachably



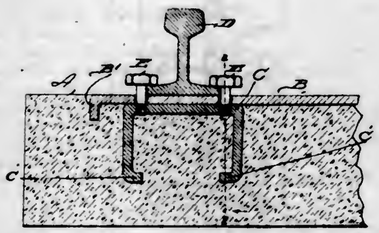
connected therewith, said shoulder-pieces being inclined outwardly and downwardly and each extending on both sides of each arm of the yoke at its end.

1,351,818. LUBRICANT-RETAINING CAP FOR TIMERS. HUBBARD C. WEST, Mount Vernon, N. Y. Filed July 22, 1919. Serial No. 312,558. 10 Claims. (Cl. 200—19.)



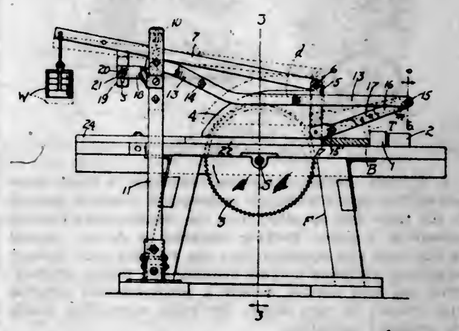
8. In combination, a timing shaft; a commutator casing disposed over the end of the timing shaft; an insulating ring around the inner face of said casing; a plurality of fixed contacts on the ring; a pivoted contact pivoted on said shaft and adapted to contact said fixed contacts; a disk-shaped oil cap secured oil-tight in said casing and provided with a large opening receiving said shaft and having its center disposed above the shaft; and a baffle disk disposed on said shaft between said cap and pivoted contact and almost closing said opening.

1,351,819. RAILROAD-TIE. CHARLES O. WHITCOMB, Washington, Mich. Filed Apr. 6, 1920. Serial No. 371,682. 2 Claims. (Cl. 238—265.)



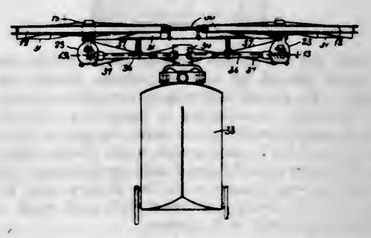
1. A railroad tie, comprising a concrete block, a bed-plate mounted on the top of said block and flush with its upper surface having holes for the passage of bolts, an anchor-plate of an inverted channel-like form extending transversely to the block and downwardly from the bed plate with inwardly directed opposing flanges spaced apart, track rails mounted on the bed plate, and a plurality of bolts adapted to engage the flanges of the track-rails extending through the holes in the bed-plate and screwed into tapped holes in the anchor plate.

1,351,820. SAW-GUARD. GEORGE WIELAND, St. Louis, Mo. Filed Dec. 5, 1919. Serial No. 342,594. 12 Claims. (Cl. 143—159.)



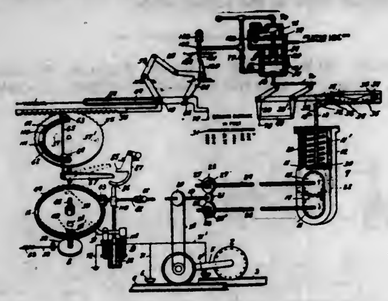
1. In combination with a circular saw rotating in a given plane, a hood surrounding the saw and yieldable in said plane, a reciprocable carriage for the stock to be cut, a supporting bed or frame for the carriage, and a member coupled to the carriage interposed between the bed and bottom of the hood along the face of the saw for pushing the section severed from the stock on the forward or feed stroke of the carriage to a point beyond the cutting edge of the saw with a backward stroke, said member on such backward stroke covering the otherwise exposed portion of the saw between the bed and bottom of the hood.

1,351,821. FLYING-MACHINE. JOHN F. WILKINSON, Winchendon, Mass. Filed Nov. 20, 1919. Serial No. 339,383. 5 Claims. (Cl. 244—19.)



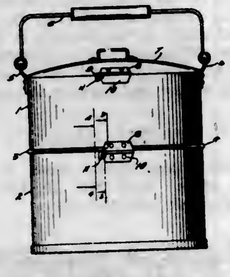
5. A flying-machine comprising a car, a motor thereon, a propeller-carrying frame, a plurality of spaced apart propellers carried by said frame and all arranged in the same plane, each propeller being composed of a hub, a rim, radial spokes connecting the hub with the rim, and fan-shaped blades mounted to turn on the spokes to a limited extent to form variable air spaces between the blades, said blades being adapted to be closed together by air pressure on their under sides, so that the propellers constitute outer parachute members, car-supporting means connecting said frame with the car, driving connections between the motor and the propellers, and an inner parachute member composed of a frame occupying the space between the propellers, and blades pivoted to said frame and adapted to be closed together by air pressure on their under sides, said inner parachute member being in the same plane with the propellers.

1,351,822. TRAIN-CONTROL SYSTEM. ARBA G. WILLIAMSON, Pittsburgh, Pa., and SIGMUND V. HUBER, Los Angeles, Calif. Filed Oct. 20, 1917. Serial No. 197,528. 39 Claims. (Cl. 246—49.)



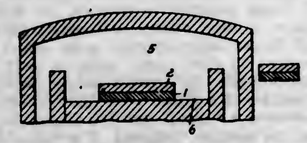
2. A train controlling system including: a train, train controlling means normally inoperative, a device, carried by the train and operated from the running gear thereof, measuring required braking distance, a device, carried by the train and operated from the running gear thereof, measuring available braking distance and means whereby, when the two devices occupy a predetermined relation with respect to each other, the train controlling means are rendered operative.

1,351,823. DINNER-PAIL. LOYD WINDBICHLER, Nokomis, Ill. Filed Dec. 11, 1918. Serial No. 266,238. 1 Claim. (Cl. 220—5.)



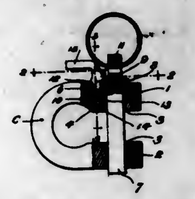
In a pail, top and bottom sections, diametrically opposed angle pieces carried by said top section, fingers integral with said angle pieces, said fingers extending beyond said angle pieces and terminating in hooked extremities, the fingers of opposed angle pieces being formed at relatively remote ends of said angle pieces, angle plates carried by said bottom section and formed with beveled edges adapted for frictional engagement with the hooked ends of said fingers, and stop flanges integral with said angle plates for coöperation with said fingers.

1,351,824. METHOD OF MAKING COMPOSITE STEEL PLATES. WARREN WORTHINGTON, Buffalo, N. Y. Filed Oct. 4, 1918. Serial No. 256,805. 3 Claims. (Cl. 29—189.)



1. The method of making composite steel plates, which consists in placing on the bottom of a heating furnace a pile of steel plates or slabs of different carbon content, with a low carbon plate on the top of the pile, bringing said plates or slabs to a welding temperature, and then subjecting them to pressure to unite them into an integral composite plate.

1,351,825. SAFETY-CLEVIS. JOHN ZUBAL, Walsen, Colo. Filed Dec. 18, 1919. Serial No. 345,699. 3 Claims. (Cl. 97—4.)



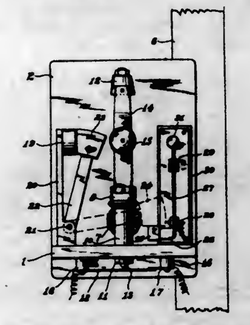
1. In a clevis, a frame having a pair of spaced arms provided with alined pin openings, one of said arms having a notch in its outer face, a pin insertible in said openings, a stop formed on the pin adjacent its outer end adapted to rest on the arm of said frame, a slidable and rotatable bolt carried by one arm, a lug on said bolt receivable in the notch in said arm, and a spring for actuating said bolt in one direction.

1,351,826. SAFETY-RAZOR. LEWIS H. ALLEN, West Springfield, Mass. Filed Aug. 9, 1919. Serial No. 316,434. 3 Claims. (Cl. 30—12.)



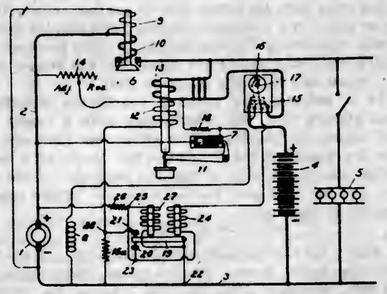
1. In a safety razor construction, the combination, of a handle, a holder therefor, a threaded end portion on the handle for attaching the handle to the holder, the handle having a shoulder portion, a raised portion between the shoulder and the threaded portion, a spring washer having an opening that engages the raised portion, said opening being of such shape as to prevent the washer rotating when the handle is threaded into the holder to place the spring under compression.

1,351,827. SAFETY APPARATUS FOR ELEVATORS. GEORGE P. BARKER and OLIVER E. UNDERWOOD, Indianapolis, Ind. Filed Oct. 3, 1919. Serial No. 328,148. 3 Claims. (Cl. 178—91.)



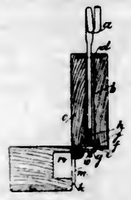
1. In an apparatus of the class described, the combination with a car and with a primary and auxiliary rails, of a governor-controlled switch carried by said car, a primary roller, means coöperating with the primary roller and the governor-controlled switch for operating the same when the car descends too rapidly, a magnet electrically connected to said governor-controlled switch, weighted means coöperating with said magnet and being held in a set position while the magnet is energised, a second switch carried by the car and provided with an angle-headed arm in the path of movement of the weighted means, and clutch means carried by the car and adapted to grip or act upon the auxiliary rails when the second switch is opened by the weighted means being released by the magnet and striking the headed arm of the second switch.

1,351,828. CAR-LIGHTING SYSTEM. WILLIAM L. BLISS, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Mar. 6, 1917. Serial No. 152,553. 11 Claims. (Cl. 171—313.)



5. In an electrical system, in combination, a variable speed generator, a storage battery, a lamp circuit, means for regulating said generator whereby its voltage is substantially unaffected by changes in speed or lamp load, means for measuring the net input to said battery, means responsive to said measuring means for reducing the generator voltage to substantially the floating voltage of said battery, and means for maintaining said floating voltage independently of said measuring means.

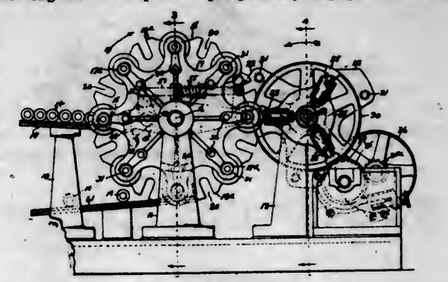
1,351,829. WOODEN LAPPET. WILLIAM H. BOWKER, Manchester, England. Filed Jan. 6, 1920. Serial No. 349,719. 3 Claims. (Cl. 242—157.)



1. In wooden lappets means for adjustably securing a thread guide wire the shank of which is rectangular in section and screw threaded at its inner end comprising in combination two washers or metal plates having holes of similar section to the thread guide wire shank, a double adjusting nut and a metal hinge for attaching the lappet to the lappet rail, the said hinge being arranged that one wing lies between the two parts of the double adjusting nut the other wing being cut to house the end of the thread guide wire and the outer part of the double nut.

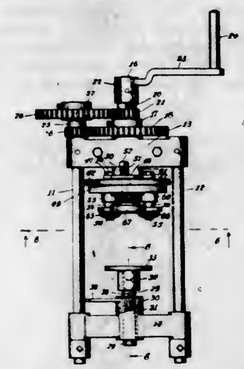
1,351,830. PRINTING MECHANISM FOR CYLINDRICAL ARTICLES. EUGENE S. BRADFORD, Detroit, Mich. Filed July 12, 1919. Serial No. 310,358. 7 Claims. (Cl. 101—37.)

1. In combination with means for feeding a supply of blanks, a rotatable carriage having blank-receiving portions spacedly disposed about its periphery in position to be successively filled from said feeding means, a rotatable member operatively connected with said carriage, a printing wheel adapted to peripherally engage the blanks



as said carriage rotates, and means deriving timed actuation from the movement of said rotatable member whereby the individual blanks are locked in position in the carriage and released therefrom at the desired phases of each cycle of operations.

1,351,831. CAN-HEADING MACHINE. JULIUS BRENZINGER, Fairfield, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn., a Corporation of New York. Filed Nov. 10, 1917. Serial No. 201,270. 10 Claims. (Cl. 113—23.)

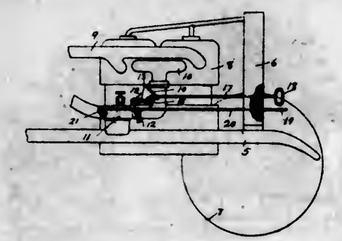


1. In a can heading machine, the combination, with a frame comprising vertical posts and upper and lower cross-pieces, said upper cross-piece carrying seaming mechanism which comprises a can-head supporting chuck, a vertical shaft at the lower end of which said chuck is mounted, a seaming-roller carrier and seaming rollers mounted thereon, a sleeve on said shaft, and means intermediate said sleeve and said carrier for actuating the latter upon rotation of the former to successively advance and retract said rollers to and from effectively coöperative positional relation to said chuck, of a member mounted for rotation about a vertical axis, a pinion on said shaft meshing with a gear on said member and a pinion on said member meshing with a gear on said sleeve, whereby said shaft and said sleeve will be rotated at different velocities upon rotation of any one of the intergeared elements.

1,351,832. AUXILIARY THROTTLE-CONTROLLER. ROBERT S. BRICKEY, Aberdeen, S. D. Filed Dec. 9, 1918. Serial No. 265,875. 1 Claim. (Cl. 123—98.)

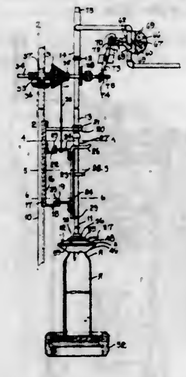
In a motor propelled vehicle, the combination with an internal combustion engine and a radiator located in front thereof, said engine including a throttle valve having an extended arm and primary operating connection attached to the end of said arm, of an off-set supplemental arm

rigidly, but detachably connected to said throttle valve arm and projecting laterally therefrom, and an auxiliary throttle valve operating rod attached to the end of said



supplemental arm and extended forward through the radiator and terminating in a hand piece located in front of said radiator.

1,351,833. GLASS-DRAWING APPARATUS. GEORGE L. CATLIN and DAVID MORRISON, Port Allegany, Pa., assignors to R. W. Hilton, Smethport, Pa. Filed Oct. 29, 1917. Serial No. 199,039. 21 Claims. (Cl. 49—17.1.)

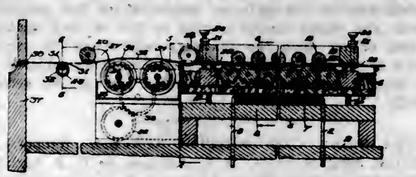


4. A glass drawing apparatus including an imperforate bait tube, a bait into which the lower end of the tube discharges, the bait having a diameter larger than the tube and comprising a hollow body open at its lower end and having a relief opening, and a manually operable valve controlling passage through said opening.

13. A bait for glass drawing comprising a hollow body, the body being expanded toward its median and then contracted downward and centrally to an orifice in its bottom, the orifice being thus less in diameter than the extreme diameter of the body and being defined by a vertical wall, the outer surface of the downwardly contracted portion of the body being straight from the lower corner of the wall of the orifice upward and outward to the point of greatest diameter, whereby the line of contact between the lowest edge of the bait and the molten glass may be observed and whereby the bait will be provided at its lower end with a sharp annular edge.

18. Means for controlling the volume of air admitted to the bait pipes of glass drawing apparatus comprising a casing having inlet and outlet ports, a disk rotatably mounted in the casing and having a plurality of different sized apertures, the disk being shiftable to bring any one of said apertures in alinement with said ports, and a valve shiftable across the face of the disk to control the effective area of the aperture formed in said disk.

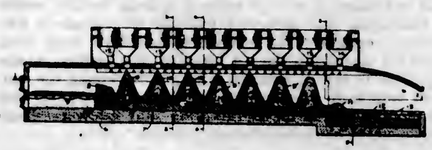
1,351,834. APPARATUS FOR TREATING MOTION-PICTURE FILMS. JOHN G. CAPSTAFF, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 29, 1918. Serial No. 225,388. 5 Claims. (Cl. 91—51.)



2. In a machine for treating continuous lengths of motion picture film, the combination with a liquid container, capillary rolls therein and means for passing a film strip over the rolls with its under face in contact therewith, of a frame above the container, tension rolls carried thereby and each contacting the top face of the film between two capillary rolls and means for adjusting the frame vertically toward and from the capillary rolls.

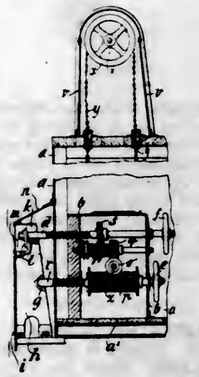
4. In a machine for treating continuous lengths of motion picture film, the combination with a liquid container, means for passing a film strip over the same and means for applying the liquid to the strip, of a roller engaging the coated side of the film adjacent to the container, and an exhauster having a narrow intake passage tangential to the roller.

1,351,835. REVERBERATORY FURNACE. HENRY L. CHARLES, Butte, Mont. Filed Aug. 30, 1917, Serial No. 188,889. Renewed Jan. 23, 1920. Serial No. 353,589. 4 Claims. (Cl. 266—24.)



1. The within described method of feeding ores into a reverberatory furnace consisting in dropping the same upon the hearth in such a manner as to provide piles or mounds at frequent intervals.

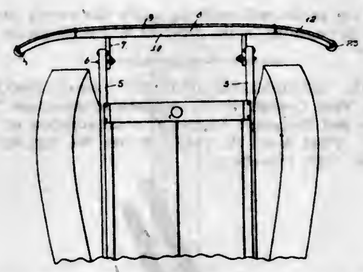
1,351,836. BUOYANT LIFE-SAVING FITTING AND APPLIANCE FOR SHIPS. PATRICK CHURCHILL, Manchester, England. Filed Oct. 25, 1919, Serial No. 333,294. Divided and this application filed Apr. 8, 1920. Serial No. 372,241. 3 Claims. (Cl. 114—77.)



1. A buoyant life saving fitting and appliance for ships, comprising a series of frames secured to the inside of the

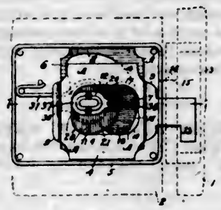
deck cabin or room, two screw-threaded spindles horizontally mounted above each other in said frames, a gear rotatably connecting together said spindles, a bracket secured to the ship deck adjacent to the bulwarks, a pocket in the top and a socket in the bottom of said brackets, a plate on the front end of said top spindle adapted to engage in said pocket and the front end of said bottom spindle engaging in said socket, for the purpose specified.

1,351,837. AUTO-BUMPER. LOUIS COHEN, Johnstown, N. Y. Filed May 18, 1920. Serial No. 382,240. 3 Claims. (Cl. 293—55.)



2. A bumper including a body portion, said body portion including a front wall and spaced bottom and top walls, end sections pivotally connected to the body portion, guide members carried by the end sections and adapted to contact with the top and bottom walls of the body portion for securing the end sections in alinement, and means carried by the body portion for moving the end sections in one direction.

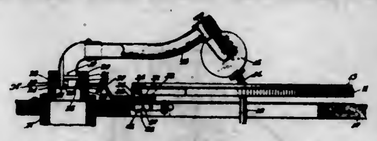
1,351,838. LOCK. BENJAMIN J. COHON, Westwood, and LOUIS MOSKOWITZ, Bayonne, N. J. Filed May 8, 1916. Serial No. 96,105. 12 Claims. (Cl. 70—46.)



1. The combination of an element having a locking projection, means for actuating said element to enable it to be moved translationally in one direction, means for controlling said element to enable it to be moved translationally in another direction, and means for supporting said element, said actuating means and said controlling means in operative relation; said element, said actuating means and said controlling means being so shaped that, upon the positions of the element, the actuating means and the controlling means being changed with respect to said supporting means, said element can be moved in a direction opposite to the one direction when the actuating means is operated, and in the same direction as the other direction when the controlling means is operated.

1,351,839. AUTOMATIC STOP MECHANISM FOR TALKING-MACHINES. EDWARD T. CONDON, Jr., New York, N. Y. Filed Oct. 17, 1916. Serial No. 126,070. 9 Claims. (Cl. 74—46.)

1. Automatic stop mechanism for talking machines, comprising: the tone arm of the machine, and a base in which the same is mounted; a collar within said base, rotatable with the tone arm and provided with an open-



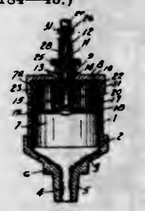
ing; and brake actuating mechanism including means adapted to engage said opening of the collar.

1,351,840. NOZZLE. FRANK CRAIGIE and JOHN HINDS, Chicago, Ill. Filed May 3, 1919. Serial No. 294,540. 4 Claims. (Cl. 299—114.)



1. In a device of the character described, the combination of a nozzle having a tapering axial passage therethrough, said nozzle including a head plate, a plate having a spiral cut-out secured to said head plate, and a nozzle cap in opposition to said head plate and secured thereto, said plate with the spiral cut-out being located on said head plate in a position in which one end of the spiral cut-out communicates with the discharge opening of the axial passage, while the other end of the spiral cut-out is in opposition to the central portion of the nozzle cap, said nozzle cap being provided in its central portion with a cavity and a discharge opening in said cavity.

1,351,841. GREASE-CUP. JAMES F. CRAVEN, Pittsburgh, Pa. Filed Mar. 31, 1917. Serial No. 158,895. 16 Claims. (Cl. 184—45.)

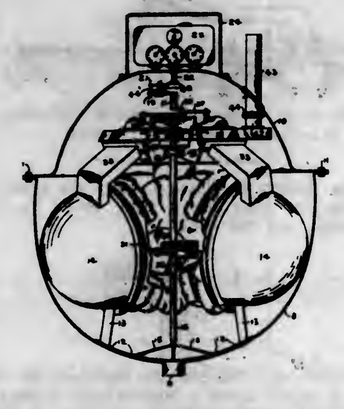


11. An automatic grease cup comprising a base member adapted to screw into a bearing to be lubricated, a casing adapted to screw into the base member and form a grease cup, a follower in the cup, a spring to drive the follower to expel the contents of the cup, a stem fixed on the follower and extending through a wall of the cup and making an air-tight fit therewith, an air passage through the stem, a valve controlling said air passage, means to adjust the valve and to lock it into adjusted position, and exterior means to withdraw the follower against pressure of the driving spring.

1,351,842. GAS-METER. ROBERT A. CULLETON and DANIEL J. LEAHY, Brooklyn, N. Y. Filed Aug. 11, 1916. Serial No. 114,343. 9 Claims. (Cl. 73—1.)

1. In a device of the character described, the combination, with a casing, of a supporting member mounted within the casing, a plurality of measuring units supported from said member, a shaft, means operatively connecting said measuring units with said shaft, said shaft being journaled in the supporting member, valves for regulating the in-flow and out-flow of gas into and from said measuring units, operative connecting means including a crank and connecting rods between said valves and said shaft, the said valves being supported upon the support-

ing member, a cover for said casing, registering mechanism carried by said cover and adapted to be actuated by said shaft, disconnectible operating means between said



shaft and said registering mechanism, the entire mechanism within the casing being removable as a unit from the interior thereof after removal of said cover.

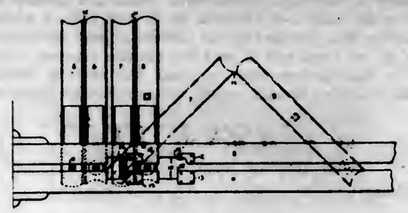
1,351,843. SHOCK-ABSORBER. ANDREW C. DUNN, Minneapolis, Minn. Filed Sept. 12, 1917, Serial No. 190,932. Renewed Jan. 15, 1920. Serial No. 351,560. 8 Claims. (Cl. 267—65.)



1. The combination with a vehicle body and axle, of a double acting pneumatic cushioning device comprising a pair of cylinders each carrying a piston working in the opposite cylinder and dividing the cylinders into two cushioning chambers and an intermediate rebound checking chamber each of said chambers being directly connected with the outer atmosphere by a duct.

1,351,844. LOCK FOR FOLDING PARTITIONS. JOHN THOS. FAIRHURST, Elizabeth, N. J. Filed Dec. 27, 1919. Serial No. 347,855. 1 Claim. (Cl. 20—20.)

In combination with the top and guide of a folding partition, a guide member substantially parallel with a section of said partition and guide plates along the guide of said partition, one of said plates on one side of said partition guide being cut away at one corner and the other of said plates forming a shoulder to prevent the movement



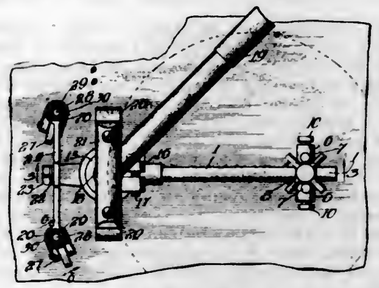
of said top guide until said top guide has swung around through the opening in the other of said guide plates.

1,351,845. ANCHORING DEVICE. LEWIN BENJAMIN FISH, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 28, 1918. Serial No. 225,267. 3 Claims. (Cl. 189—90.)



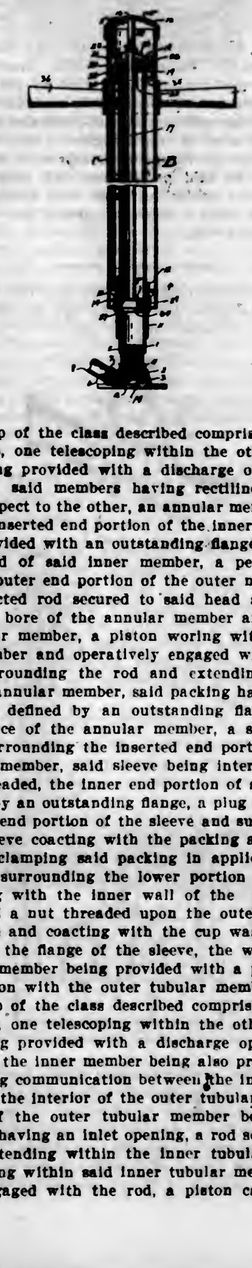
3. In an anchoring device the combination of a rod and a ring integrally connected therewith adapted to provide a continuous bearing surface for a guy, the radius of curvature of a cross section of the ring through said bearing surface being greater than the radius of curvature of any other cross section of said ring.

1,351,846. CIRCLE-GUIDE FOR OXYACETYLENE-TORCHES. HARRY J. FORSTER, Chicago, Ill. Filed Aug. 11, 1919. Serial No. 316,823. 14 Claims. (Cl. 266—23.)



9. A circle guide for torches comprising a carriage equipped with three supporting elements, two of the latter being rotatable relatively to the carriage for promoting ease of travel and the other constituting the center-point about which the carriage is adapted to rotate, a bearing in said carriage disposed within the area of a triangle of which said supports form the corners, a torch-nozzle engaging element mounted to rotate in said bearing, and a handle rigid with the latter for rotating the carriage about its axis and at the same time rotating said nozzle engaging element relatively to said carriage, pintles carrying said rotatable supports rotatably engaged with said carriage for permitting said rotatable elements to adjust themselves to travel in circles of different diameters, and means associated with the carriage and said pintles for firmly holding the latter against rotation relatively to said carriage.

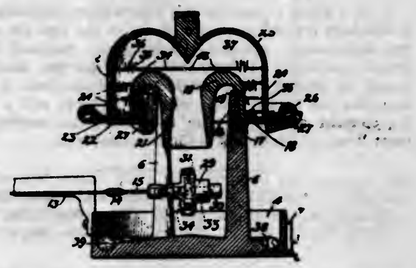
1,351,847. AIR-PUMP. JACOB G. GERHART, Fredericksburg, Pa. Filed Nov. 14, 1919. Serial No. 337,924. 4 Claims. (Cl. 230—27.)



1. A pump of the class described comprising two tubular members, one telescoping within the other, the inner member being provided with a discharge opening at one end portion, said members having rectilinear movement one with respect to the other, an annular member arranged within the inserted end portion of the inner tubular member and provided with an outstanding flange engaging the adjacent end of said inner member, a perforated head closing the outer end portion of the outer member, an inwardly directed rod secured to said head and extending through the bore of the annular member and within the inner tubular member, a piston woring within the inner tubular member and operatively engaged with the rod, a packing surrounding the rod and extending within the bore of the annular member, said packing having its outer end portion defined by an outstanding flange overlying the outer face of the annular member, a sleeve engaged with and surrounding the inserted end portion of the inner tubular member, said sleeve being internally and externally threaded, the inner end portion of said sleeve being defined by an outstanding flange, a plug engaged within the outer end portion of the sleeve and surrounding the rod, said sleeve coacting with the packing and the flange thereof for clamping said packing in applied position, a cup washer surrounding the lower portion of the sleeve and coacting with the inner wall of the outer tubular member, and a nut threaded upon the outer end portion of the sleeve and coacting with the cup washer to clamp the same to the flange of the sleeve, the wall of the inner tubular member being provided with a port affording communication with the outer tubular member.

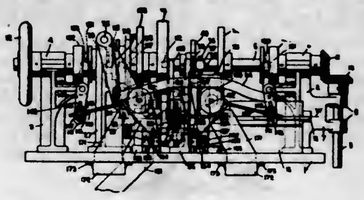
3. A pump of the class described comprising two tubular members, one telescoping within the other, the inner member being provided with a discharge opening at one end portion, the inner member being also provided with a port affording communication between the interior of said member and the interior of the outer tubular member, the outer end of the outer tubular member being provided with a head having an inlet opening, a rod secured to said head and extending within the inner tubular member, a piston working within said inner tubular member and operatively engaged with the rod, a piston carried by the inserted end portion of the inner tubular member and coacting with the outer tubular member, a sleeve mounted upon the inner tubular member, a packing sleeve surrounding the inner tubular member and having one end portion contacting with the inner end of the sleeve, said end portion of the packing being defined by an outstanding flange, a collar engaged within the inner end portion of the outer tubular member and internally threaded, the inner end portion of the sleeve engaging the internally threaded portion of the collar, said packing sleeve being of a length to extend inwardly of the collar.

1,351,848. LIQUID-FUEL BURNER. JAMES D. GOODWIN and GROVER C. GOODWIN, Richmond, Va. Filed Oct. 25, 1918. Serial No. 259,665. 2 Claims. (Cl. 158—69.)



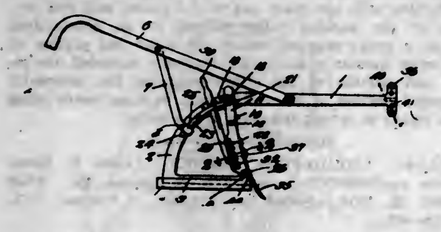
1. A liquid fuel burner comprising a tubular base portion having its inner surface flared outwardly toward the lower end and the upper walls flared outwardly then downwardly to form an encircling outer wall then outwardly to form an annualr horizontal bottom partition and upwardly to form a short annular vertical wall or flange surrounding the whole, a plurality of rings arranged to rest upon the upper edge of the said vertical flange portion, a cap member arranged to rest upon the uppermost ring and inclose a space above the lines of juncture between said cover member, rings and base member, spacing means carried by said rings arranged to space them apart from each other and from the cover member and base member to form jet openings or slots therebetween, a vapor generating pipe surrounding the base member and supporting brackets therefor carried by the base member and arranged to hold the generating pipe in the plane of the jet openings between the bottom ring and the vertical flange portion of the base member, and a nozzle connected with said generator pipe and arranged to direct a jet of vapor through the said tubular portion of the base member into the space inclosed by said cover member.

1,351,849. PIN-POINTING MACHINE. HERMAN HEINE, Brooklyn, N. Y., assignor to A. Kimball Company, New York, N. Y., a Corporation of New York. Filed Apr. 12, 1917. Serial No. 161,468. 21 Claims. (Cl. 163—6.)



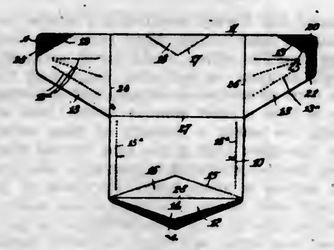
1. A machine for pointing articles comprising means for receiving and rotating said articles, a cylindrical cutter, means for rotating the same, means for moving said cutter in the direction of the axis of said receiving means and means for reciprocating said receiving means in the direction of the axis of said cylindrical cutter to cause the end of the article to traverse across the surface of said cutter.

1,351,850. PLOW. WILLIAM T. HERNDON, Parkton, N. C. Filed Jan. 15, 1920. Serial No. 351,529. 6 Claims. (Cl. 97—26.)



1. In a plow, a beam having a forwardly extended foot; a standard pivoted at its lower end to the foot for swinging adjustment; means for holding the standard in adjusted positions; a lever fulcrumed on the standard; means for holding the lever in adjusted positions; a share engaging the forward edge of the standard; and a securing element connected with the share, the securing element being pivotally engaged with the lever.

1,351,851. SAFETY-ENVELOP BLANK. MORTIMER L. HINCHMAN, Brooklyn, N. Y. Filed Sept. 16, 1919. Serial No. 324,064. 3 Claims. (Cl. 229—81.)



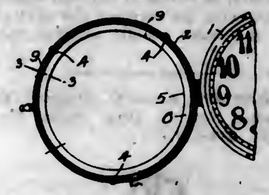
1. A blank from which an envelop is formed, including front and back folds, a seal flap forming part of said front fold having a marginal gummed portion, a partly severed portion embodied by the front fold and seal flap, side flaps forming a part of said back fold, gummed areas on the side flaps, partly severed gummed portions in the side flaps, and a partly severed portion in the back fold to which the partly severed gummed portions in the side flaps are pasted.

1,351,852. AEROPLANE CONSTRUCTION. HARRIS G. HOOPER, San Francisco, Calif. Original application filed Aug. 28, 1917, Serial No. 188,623. Divided and this application filed Sept. 13, 1918. Serial No. 253,875. 8 Claims. (Cl. 244—31.)



1. In improvements of the character disclosed, means for producing sustentation of atmospheric re-action comprising spaced upper and lower walls, a strut connected with one of said walls, and means for connecting said strut, comprising an arched plate joined at its edges with said wall by a lap joint and upon which said strut rests.

1,351,853. SASH FOR DIALS. CHARLES H. HYDE, Winsted, Conn., assignor to William L. Gilbert Clock Company, Winsted, Conn., a Corporation of Connecticut. Filed Nov. 4, 1919. Serial No. 335,722. 3 Claims. (Cl. 58—58.)



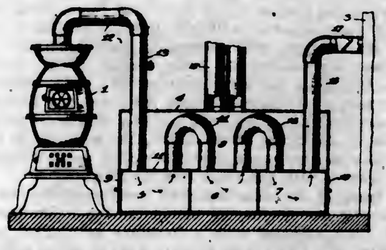
1. In a sash for clock dials and the like, the combination of an inwardly flanged outer sash frame having a plurality of inward projections carried by the rim thereof, a glass in said frame, a holding ring within said frame and having a flange adjacent to said glass and a peripheral portion approximately at right angles to said flange, said peripheral portion having upon its rear edge inclined surfaces adjacent to said projections and adapted to cooperate with said projection when said internal ring is turned so as to engage said projections and clamp said glass in said outer ring.

1,351,854. WATER-CLOSET VENTILATOR. ERNST F. KLEMME, Milwaukee, Wis. Filed Apr. 24, 1918. Serial No. 230,561. 1 Claim. (Cl. 4—21.)



In the water closet ventilator, the combination of a flushing pipe, a vent connector having communication therewith and having a valve seat surrounding it, a valve member normally pivotally mounted in the flushing pipe and fitting on the valve seat and adapted to be closed by the flow of water through the flushing pipe, said valve having a curved blade projecting from the outer face thereof, and a counterweight on the valve member for holding it open.

1,351,855. FUEL-SAVER. JUAN FERNANDEZ KNOCK, Lewistown, Ill. Filed Aug. 8, 1918. Serial No. 248,986. 1 Claim. (Cl. 257—166.)



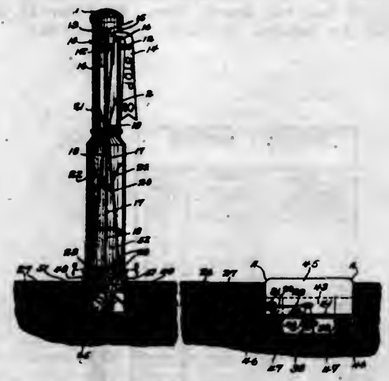
In a fuel saver, the combination with a heating unit, of a main casing, a supplemental casing interior to the main casing and divided into a plurality of compartments, tubular connections between the compartments of the supplemental casing, a tubular connection between the heating unit and one of the compartments of the supplemental casing, another of the compartments of the supplemental casing having means for connection to a smoke stack, certain of the tubular connections and portions of the others being inclosed within the main casing, and tubular members communicating with the main casing for the purpose specified.

1,351,856. METHOD OF MANUFACTURING TIRES. HENRY M. LAMBERT, Portland, Oreg. Filed Feb. 19, 1919, Serial No. 278,017. Renewed July 16, 1920. Serial No. 396,877. 6 Claims. (Cl. 154—12.)



1. The method of manufacturing cushion tires which comprises the following steps: first, building up a base structure including a non-stretchable belt, the latter being formed by winding alternate layers of cord, stretched to its approximate maximum limit of elongation while being laid, and cushion gum; second, forming a cushion element over the base structure by placing a band of cushion gum over said belt, then placing a series of rubber blocks transversely on the cushion gum layer while holding adjacent blocks separated by core elements having fixed cross sections, and placing another layer of cushion gum over the blocks and core elements; third, forming a second non-stretchable belt around said cushion gum element while constricting the same in a direction toward the axis of the tire; fourth, building up another structure around the outermost belt structure, said other structure including a tread section; fifth, applying a compacting pressure to the mass to compact the same and vulcanizing the mass while under pressure.

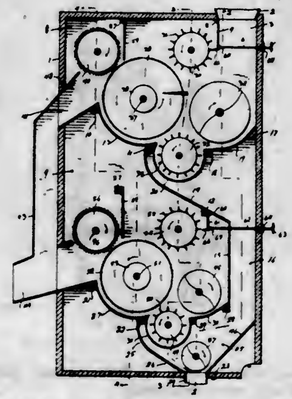
1,351,857. TRAFFIC-SIGNAL. LESTER ALFRED LAWHEAD, St. Joseph, Mo. Filed Apr. 9, 1920. Serial No. 372,608. 5 Claims. (Cl. 116—67.)



1. A signal, comprising a signal post, a plurality of signal arms secured thereto, a plurality of treads connected with each of said signal arms and each of said treads arranged in spaced relation to each other on opposite sides of the signal post and adapted to move said signal arms.

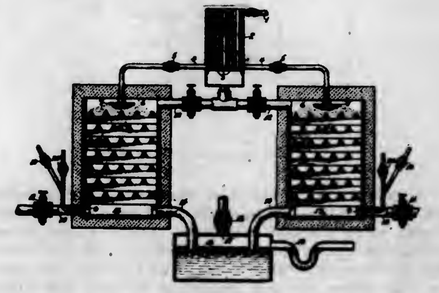
1,351,858. COTTON-BOLL-CLEANING MACHINE. ALLEN T. LOKEY, Memphis, Tex. Filed May 14, 1919. Serial No. 296,973. 5 Claims. (Cl. 19—9.)

1. In a cotton cleaning machine, the combination with a casing having a boll chamber, of a cotton cleaning mechanism in said chamber comprising a conveying screw and cotton gathering saws operative in parallel planes on an axis parallel with the screw, a knocker roll offset above and between the screw and the saws and provided with longitudinally extending spaced flanges adapted to knock the bolls back upon the feed screw, and a hinged combined



deflector and guard plate adjustable to approximate the longitudinal edges of the knocker flanges of the knocker roll to assist in knocking the bolls back toward and upon the conveyer.

1,351,859. PROCESS OF CRACKING PETROLEUM. LEON P. LOWE, San Francisco, and FREDERICK C. RUFF, Los Angeles, Calif., assignors to By-Products Manufacturing Company, San Francisco, Calif., a Corporation of California. Filed Jan. 15, 1917. Serial No. 142,560. 2 Claims. (Cl. 196—25.)

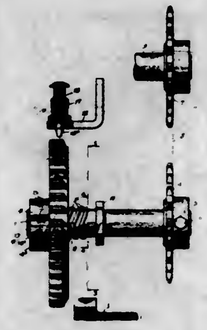


1. The process of cracking petroleum, which consists in passing products of combustion through a cracking chamber and into contact with openwork material therein to raise the temperature of said material above that at which petroleum is cracked with a production of carbon and condensible hydrocarbons, but less than that to which it is heated in the generation of gas from petroleum, then passing petroleum therethrough, thereby cracking the petroleum, then arresting the passage of the petroleum through the openwork material, and then burning the carbon deposited upon said surface by the cracking of the petroleum, to assist in heating said surface in a repetition of the process.

1,351,860. ENGINE-STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Mar. 20, 1919. Serial No. 283,777. 8 Claims. (Cl. 74—7.)

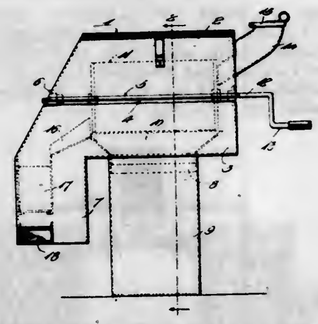
1. In a device of the class described, the combination of a rotatable shaft, a driving member mounted thereon for longitudinal movement thereof and rotary movement therewith, and means for yieldingly holding such member in normal position on the shaft but permitting a limited free

rotary movement thereon such means comprising a projection on the shaft and a spring anchored at one end to



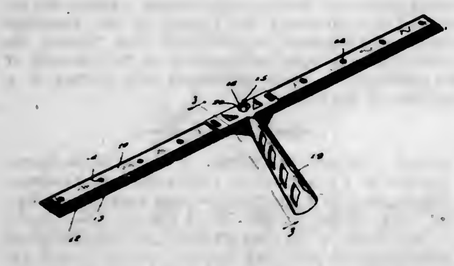
the driving member with its intermediate portion arched to extend over such projection.

1,351,861. ASH, CINDER, AND COAL SEPARATOR. ELITH C. MADSEN, Hazleton, Pa. Filed Aug. 19, 1918. Serial No. 250,532. 2 Claims. (Cl. 83—60.)



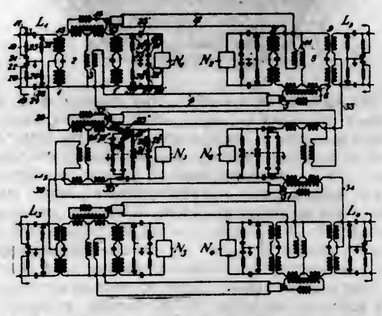
1. In a device of the class described, a casing having an inlet to receive ashes, cinders and unburned coal, said casing being provided with three outlets, means in said casing for separating the ashes from the coal and cinders and directing such ashes to one of said outlets, and means in said casing for then separating the coal and cinders and directing them to the other outlets respectively.

1,351,862. SQUEEGEE. JOHN H. MENKHAUS, Cincinnati, Ohio. Filed Mar. 22, 1920. Serial No. 367,700. 2 Claims. (Cl. 15—59.)



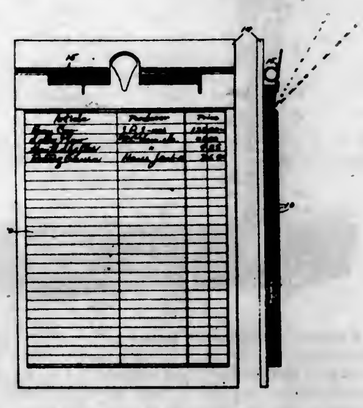
1. A squeegee comprising a handle member having a laterally extended bead provided with a slot open at one end, and having members for interlocking engagement with the squeegee member; and a squeegee member comprising a metal plate carrying a threaded bolt for entry in said slot, a nut on the bolt for clamping engagement with the handle member, and a rubber strip laterally extended beyond both edges of said metal plate.

1,351,863. TELEPHONE-REPEATER. JOHN MILLS, Wyoming, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 15, 1917. Serial No. 142,486. 6 Claims. (Cl. 179—170.)



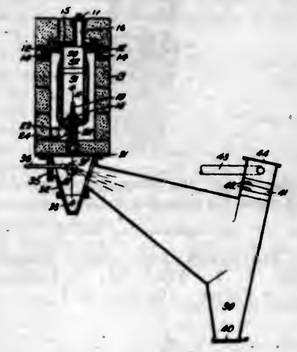
1. In a signaling system, two transmission line sections, two artificial lines individually associated with said line sections, translating apparatus, means to associate said translating apparatus with said transmission lines and said artificial lines, auxiliary apparatus associated with a line section and means electrically equivalent to said auxiliary apparatus similarly associated with the corresponding artificial line in order to balance the auxiliary apparatus with respect to the translating apparatus.

1,351,864. ACCOUNTING AND RECORD DEVICE. GUSTAVE W. MOELLER, Harris, Iowa. Filed Nov. 14, 1918. Serial No. 262,501. 1 Claim. (Cl. 282—25.)



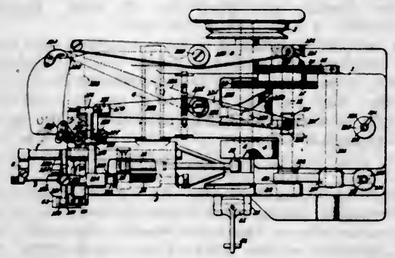
An accounting and record device, comprising a collocation of envelops each having indicia on its face suitably arranged to receive entries and memoranda, each envelop containing a carbon sheet, second sheet and backing sheet, said insert sheets being substantially shorter than the envelop, a holding device engaging the collocation of envelops at those portions not occupied by the insert sheets, whereby the envelops, relatively stiff in their main portions, are free to flex on transverse lines between said holding device and the insert sheets.

1,351,865. PROCESS FOR THE MANUFACTURE OF MAGNESIUM POWDER. DAVID S. NICOL, Montreal, Quebec, Canada, assignor to Shawinigan Electro-Metals Company, Limited, Montreal, Quebec, Canada. Filed July 23, 1917. Serial No. 182,265. 4 Claims. (Cl. 75—197.)



3. A process for the production of magnesium powder which comprises melting the magnesium in an atmosphere of a gas which will not combine with the magnesium at high temperatures and high pressures, and discharging the molten magnesium into a nitrogen atmosphere and into a nitrogen jet by which the molten metallic stream is disintegrated into fine particles.

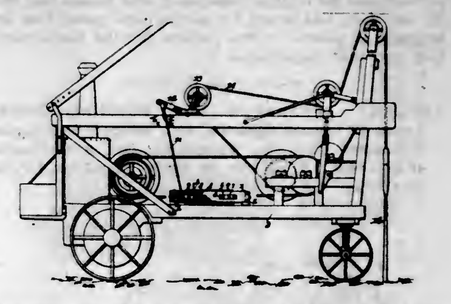
1,351,866. SEWING-MACHINE. DONALD NOBLE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Aug. 11, 1916. Serial No. 114,333. 9 Claims. (Cl. 112—178.)



1. In a sewing machine, the combination with a stitch-forming mechanism including a needle, a needle carrying bar and means for operating said mechanism, of means for presenting the fabric to the action of said stitch-forming mechanism including a fabric bender, an under feeding mechanism comprising a feeding member having feed movements intersecting the path of needle movement, and an upper feeding mechanism including a feeding member coöperating with said under feeding member at the seam-finished side of the needle only.

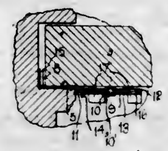
1,351,867. COMPENSATING APPARATUS FOR WELL-DIGGING OUTFITS. OLIVER E. OAKES, Asbury, Mo. Filed Jan. 9, 1919. Serial No. 270,341. 5 Claims. (Cl. 255—11.)

1. A compensating apparatus for well digging machines, comprising a fixed frame, movable frames guided in said frame, resilient connections respectively between the movable frames and between the movable frames and the fixed frame, and a flexible connection reaching from one movable frame to the other and finally to a movable cable-



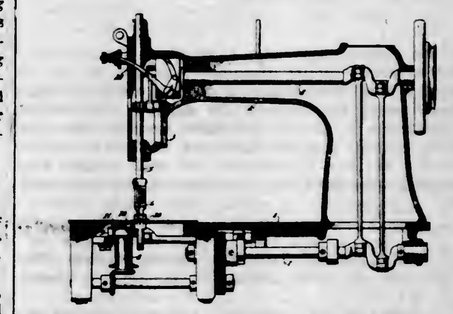
receiving part of the digging machine, to impart resiliency to said cable by virtue of said resilient connections.

1,351,868. SASH-FASTENER. MAYNARD E. PENQUITE, Colfax, Iowa. Filed Apr. 25, 1917. Serial No. 164,455. 1 Claim. (Cl. 292—140.)



A sash fastener comprising a flat body plate formed at one end with spaced legs, the extremities of the legs being angularly bent to form lugs, the central portion of the body having an elongated boss, a locking plate disposed upon said body and provided in one end portion with a longitudinally extending slot slidably engaging the sides of the boss, the lower surface of said end portion being engaged with the portion of the body surrounding the base of the boss, the other end portion of said locking plate having its lower surface positioned for engagement with a support or sash, the extremity of the last mentioned end portion being formed with an angularly disposed lug, and a rotatable cam mounted upon the boss and in all positions extending over and engaging the upper surface of the first mentioned end portion of the locking plate, the locking plate at the end of the slot being formed with an outwardly extending lug against which the cam bears, the second mentioned end portion of the locking plate being slidable flush with the spaced legs of the body.

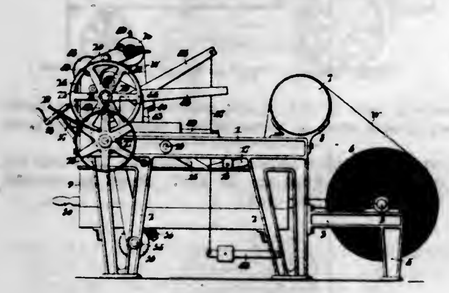
1,351,869. SEWING-MACHINE LOOP-TAKER. RALPH PETTI, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Apr. 24, 1918. Serial No. 230,407. 7 Claims. (Cl. 112—231.)



1. In a sewing machine, a stitch-forming mechanism including a reciprocating needle, a loop-taker, a thread-

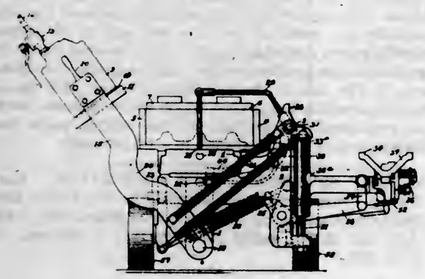
case mounted in said loop-taker and around which said loop-taker is adapted to cast a loop of needle-thread, a stop-element for limiting rotation of said thread-case upon its own axis, and means for moving said thread-case axis laterally to provide a free passage for the needle-thread loop past said stop-element.

1,351,870. APPARATUS FOR FORMING TUBES. JAMES F. PIERCE, Glynrich, Del., assignor to American Vulcanized Fibre Co., Wilmington, Del., a Corporation of Delaware. Filed Mar. 30, 1917. Serial No. 158,769. 18 Claims. (Cl. 93—81.)



2. In an apparatus for forming tubes, the combination of means for supplying a web of material; a mandrel; means for guiding the web to the mandrel; a pair of yielding rolls coöperating with said mandrel for winding the web thereon; and means for simultaneously moving said rolls into and out of position for coöperating with the mandrel.

1,351,871. MOLDING-MACHINE. EDWARD A. PRIDMORE, La Grange, Ill. Filed July 9, 1909, Serial No. 506,715. Renewed Nov. 4, 1918. Serial No. 261,160. 15 Claims. (Cl. 22—33.)



1. The combination with a molding machine of a frame, a pattern carrier connected therewith, adapted to support a flask and pattern, a movable frame pivotally connected with the frame of the machine, a projection on said frame, a cylinder and piston mounted upon said movable frame, a stop on the molding machine frame, the projection and stop arranged so that when brought into engagement the piston and cylinder are directly over said flask.

1,351,872. GARTER. PAUL EMIL ROSEN, Madison, Wis. Filed Dec. 15, 1919. Serial No. 344,888. 2 Claims. (Cl. 241—6.)

1. A hose supporter comprising a strap of flexible material having laterally enlarged portions near its ends and having hose-engaging clasps at its ends, each enlargement having an opening through which the hose engaging clasp



and the other end of the strap may pass to form a sliding loop or noose for engaging the leg.

1,351,873. FOUNTAIN-PEN. PERCY PHELPS SANFORD, Woodridge, N. Y. Filed July 3, 1919. Serial No. 308,581. 8 Claims. (Cl. 120—50.)

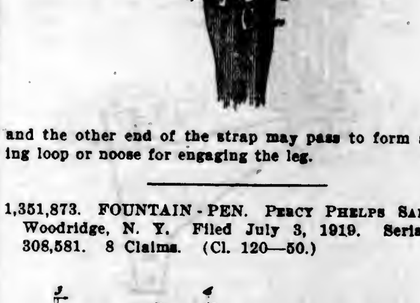


1. A fountain pen having, in combination, a tubular reservoir, a feed holder secured in one end of said reservoir, a pen secured in said holder, a hollow feed tube mounted in said holder having a lateral opening in its end adjacent said pen, and a feed strip passing through said tube and arranged to make a point contact with said pen in the area opposite said lateral opening, said strip forming two distinct passages through said tube.

1,351,874. CEMENT COMPOSITION. JACOB J. SCHALLER, Chicago, Ill. Filed Feb. 13, 1920. Serial No. 358,387. 1 Claim. (Cl. 106—38.)

A composition adapted to form a light weight cement for finely cut and ground vegetable material, comprising twenty pounds of casein, from twenty to thirty pounds of lime, from two and one half to one and one quarter pounds of caustic soda, and from five to two and one half pounds of borax.

1,351,875. COUPLING FOR RAILWAY-TRAIN PIPES. EDWARD A. SCHREIBER, Chicago, Ill., assignor, by mesne assignments, to Vapor Car Heating Company, Inc., a Corporation of New York. Filed Oct. 5, 1914. Serial No. 865,161. 17 Claims. (Cl. 285—7.)



1. In a railway train pipe, the combination with the train pipe section carried by a car of the train, of a

coupling for the same including a coupler head adapted to engage the coupling member carried by the adjacent car of the train, and a jointed structure connecting the coupler head with the train pipe section comprising a metal tubular element, a gimbal joint uniting said train pipe and tubular element, and a second gimbal joint between the other end of the tubular element and the coupler head; each joint having a tubular, metallic, flexible, corrugated diaphragm providing a steam port therethrough.

2. In a railway train pipe, the combination with the train pipe section carried by a car of the train, of a coupling for the same including a coupler head of the gravity type adapted to engage the coupling member carried by the adjacent car of the train, and a jointed structure connecting the coupler head with the train pipe section comprising a substantially straight metal, tubular element, a gimbal joint uniting said train pipe and tubular element, a second gimbal joint at the other end of the tubular element, and an elbow pipe between said joint and coupler-head; each joint having a tubular, metallic, flexible, corrugated diaphragm providing a steam port therethrough.

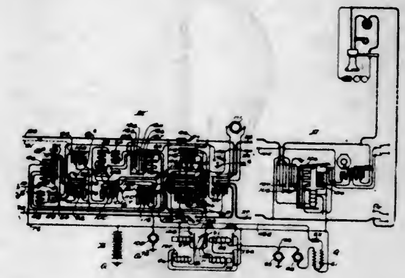
3. In a railway train pipe, the combination with the train pipe section carried by a car of the train, of a coupling for the same including a coupler head adapted to engage the coupling member carried by the adjacent car of the train, and a jointed structure connecting the coupler head with the train pipe section comprising a metal tubular element, a gimbal joint uniting said train pipe and tubular element, and a second gimbal joint between the other end of the tubular element and the coupler head; each joint having flexible, metallic means providing a passage-way for a fluid under pressure through said joint.

4. In a railway train pipe, the combination with the train pipe section carried by a car of the train, of a coupling for the same including a coupler head adapted to engage the coupling member carried by the adjacent car of the train, and a jointed structure connecting the coupler head with the train pipe section comprising a metal tubular element, a gimbal joint uniting said train pipe and tubular element, and a second gimbal joint between the other end of the tubular element and the coupler head; and flexible, metallic conduit members providing a passageway for a fluid through the joint, each joint being provided with a pair of substantially hemispherical casing members which inclose said conduit members.

5. In a railway train pipe, the combination with the train pipe section carried by a car of the train, of a coupling for the same including a coupler head of the gravity type adapted to engage the coupling member carried by the adjacent car of the train, and a jointed structure connecting the coupler head with the train pipe section comprising a metal tubular element, a universal joint uniting said train pipe and tubular element, and a second universal joint between the other end of the tubular element and the coupler head; each joint being made up of a pair of yokes arranged at right angles to each other formed with casing members, one fitting and movable within the other, an annular member to which said yokes are pivoted, and flexible means providing a fluid passageway through said joint.

1,351,876. SEMI-AUTOMATIC TELEPHONE SYSTEM. MICHAEL SCHWARTZ, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 22, 1913. Serial No. 769,284. 32 Claims. (Cl. 179—27.)

30. In a telephone system, an operator's cord circuit comprising a pair of talking conductors, a signal, a relay for controlling said signal, said relay having two windings serially connected in bridge of said talking conductors, a second relay and a signal controlled thereby, and

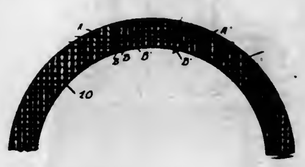


means controlled by said second relay for short-circuiting one of the windings of said first relay.

1,351,877. METHOD OF SEPARATING NICKEL AND COPPER FROM COPPER-NICKEL MATTES OR MATERIALS. ROBERT C. STANLEY, New Brighton, N. Y., assignor to The International Nickel Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 5, 1919. Serial No. 275,239. 38 Claims. (Cl. 204—57.)

3. In the separation of nickel and copper from mattes or materials containing them, the steps of partially separating the copper material from the nickel material by furnace treatment, converting the nickel material into impure metallic nickel containing a material proportion of copper, and then recovering metallic nickel therefrom by electrolytic treatment.

1,351,878. DRAIN-TILE. HALVER R. STRAIGHT, Adel, Iowa. Filed Oct. 14, 1918. Serial No. 258,075. 4 Claims. (Cl. 61—10.)

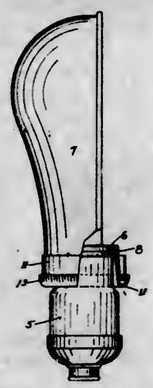


1. A drain tile having in each end a series of grooves, said grooves extending from the exterior of the tile toward the interior thereof, the grooves at the opposite ends of the tile being arranged on different lines tangentially of the periphery of the tile, so that when the non-corresponding ends of two tiles are placed together the said grooves will not register.

1,351,879. SHADE-HOLDER FOR ELECTRIC-LIGHT BULBS. WILLIAM E. SURFACE, Decatur, Ill., assignor to Farlee Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Jan. 27, 1916. Serial No. 74,544. 5 Claims. (Cl. 240—110.)

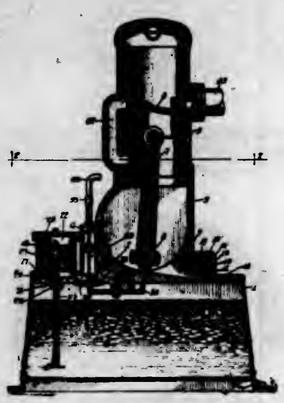
1. The combination with an electric light socket of a tapered split ferrule having a circumferential groove formed therein, adapted to surround the annular rib on the socket, there being inclined slots in said ferrule, one edge of each slot being provided with a plurality of ratchet teeth, a ferrule, the internal walls of which are tapered to coincide with the external walls of the split ferrule having two inwardly projecting lugs adapted to engage

the said teeth, said slots being wide enough to permit the release of said lugs from engagement with the said teeth,



the tendency to push off the tapered ferrule operating to hold the lugs in engagement.

1,351,880. INTERNAL-COMBUSTION ENGINE. HERBERT L. THOMPSON, Elgin, Ill., assignor to The Maytag Company, Newton, Iowa, a Corporation of Iowa. Filed Apr. 27, 1916. Serial No. 93,854. 11 Claims. (Cl. 123—30.)

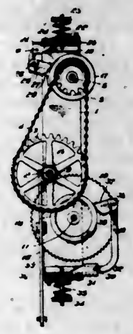


1. In an internal combustion engine a fuel supply, a compression chamber, means to draw air to said chamber and to charge said air with finely divided fuel in its passage to the compression chamber, and manually operable means for causing said air to bubble through said fuel in passage to the compression chamber.

1,351,881. AUTOMATIC DRAG FOR PLAYER-PIANO TRANSMISSIONS. WILLIAM T. WAITE, Kansas City, Mo. Filed Dec. 11, 1916. Serial No. 136,196. Renewed Mar. 15, 1920. Serial No. 366,037. 8 Claims. (Cl. 84—166.)

1. In a transmission for player pianos, the combination of a pair of shafts adapted to support the ends of record spools, means for alternately driving one of said shafts while the other rotates idly, friction disks on said shafts, and independent means constantly engaging said disks and automatically operative to retard the idly rotating shaft.

2. In a transmission for player pianos, the combination of a pair of shafts adapted to support the ends of record spools, means for alternately driving one of said shafts while the other rotates idly, friction disks on said shafts, means constantly engaging said disks and automatically operative to retard the idly rotating shaft, and means for independently varying the retarding effect of the retarding means.



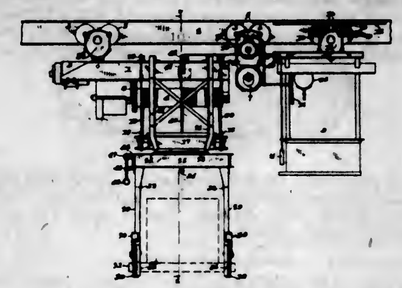
3. In a transmission for player pianos, the combination of a pair of shafts adapted to support the ends of record spools, means for automatically driving one of said shafts while the other rotates idly, friction disks on said shafts, independent brakes constantly and yieldingly engaging said disks and automatically operative to retard the idly rotating shaft, and means for independently varying the retarding effect of said brakes.

4. In a transmission for player pianos, the combination of a pair of shafts adapted to support the ends of record spools, means for selectively driving one of said shafts, the other being adapted to rotate idly, a disk secured to each shaft, a lever pivoted adjacent each of said disks, a brake-shoe pivotally supported on each lever and automatically operative to retard said idly rotating shaft by engagement with the disk thereon, springs operatively connected to said levers to maintain the operative brake-shoe in resilient engagement with its coöperating disk, and adjustable stops arranged in the path of movement of said levers.

5. In a transmission for player pianos, the combination of a frame, a pair of shafts journaled in said frame and adapted to support the ends of record spools, means for selectively driving one of said shafts, the other being adapted to rotate idly, a disk secured to each shaft, a bell-crank lever pivotally supported by said frame adjacent each of said disks, a brake shoe pivoted on one arm of each of said levers and automatically operative to retard said idly rotating shaft by engagement with the disk thereon, hooks secured to the other arms of said bell-crank levers and having shanks extending through openings in said frame, nuts threadedly mounted on said shanks, and springs mounted between said nuts and frame.

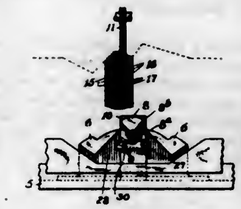
1,351,882. HOISTING AND CONVEYING APPARATUS. HENRY WEICKEL, Milwaukee, Wis., assignor to Pawling and Harnischfeger Company, Milwaukee, Wis., a Corporation of Wisconsin. Original application filed July 17, 1913, Serial No. 779,442. Divided and this application filed June 3, 1918. Serial No. 237,843. 3 Claims. (Cl. 212—127.)

1. In hoisting and conveying apparatus the combination of a trolley adapted to be suspended from and to travel on an elevated monorail track and provided on opposite sides of and parallel with its longitudinal center and equidistant from the track with two hoisting drums, a motor connected with said drums and adapted to rotate them simultaneously in opposite directions at the same speed, and prevent independent rotation thereof, and a lifting frame provided with two pairs of sheaves and suspended on opposite sides of its longitudinal center and adjacent its ends from the trolley by four cables passing around said sheaves and attached at their ends to the



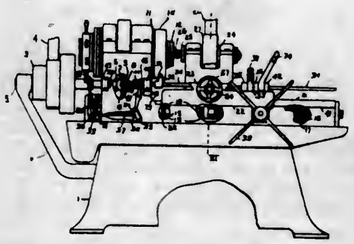
trolley frame and to said drums, the cables passing downward from the outer sides of the drums to the sheaves.

1,351,883. REINFORCING MECHANISM FOR CIRCULAR-KNITTING MACHINES. GEORGE S. WEINERTH, Reading, Pa. Filed July 16, 1919. Serial No. 311,155. 4 Claims. (Cl. 66—21.)



1. In a circular knitting machine, the combination with reinforcing thread mechanism, of series of long butt and short butt needles certain of the former having reduced-end butts, and means for operatively positioning said reduced-end long butt needles either with the short butt needles or with the other long-butt needles to vary the extent of the reinforced knitting.

1,351,884. AUTOMATIC MACHINE-TOOL. MILTON A. WERTMAN, Dayton, Ohio, assignor to The Biggs-Watterson Co., Cleveland, Ohio, a Corporation of Ohio. Filed July 8, 1918. Serial No. 243,884. 5 Claims. (Cl. 10—154.)

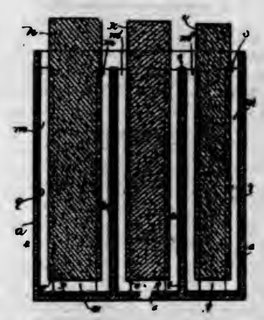


3. A machine tool including a tool holder, a work holder parallel thereto, rotatable driving means therefor, a rock shaft parallel to the axes of the holders, a trigger coacting with a rotary holder to trip the rock shaft, a feed device for one of the holders, and connecting means from the rock shaft to the feed device operable by the rock shaft for disconnecting the device from actuating the holder.

1,351,885. PROCESS OF PAINTING OBJECTS OF ART. JAMES A. WILLIAMS, Cincinnati, Ohio, assignor, by direct and mesne assignments, to Charles Mullis Manufacturing Company, Greensburg, Ind., a Corporation of Indiana. Filed Nov. 22, 1919. Serial No. 339,936. 3 Claims. (Cl. 91—68.)

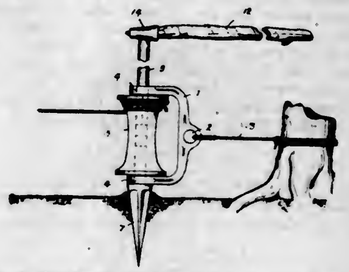
1. A process of painting an object which comprises applying a coat of paint to the object, applying a mixture of dry colors and pulverized polishing material to the coat before it becomes dry, drying the coat and polishing the object.

1,351,886. ELECTROLYTIC CELL. EDWARD A. ALLEN, Portland, Me. Filed Dec. 19, 1918. Serial No. 267,462. 17 Claims. (Cl. 204—5.)



3. An electrolytic cell comprising a metallic casing forcing the cathode, an anode occupying the interior of said casing, an insulating plate on the bottom of the space within the casing which the anode occupies, and insulating means holding said anode out of contact with the surfaces of the casing.

1,351,887. PULLING-DRUM. CHRISTOPHER C. BAGNELL, Duluth, Minn., assignor to Mary H. Bagnell, Duluth, Minn. Filed Aug. 27, 1919. Serial No. 320,093. 3 Claims. (Cl. 254—150.)

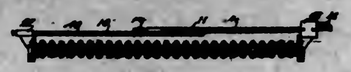


1. In a device of the character described a holding clevis, a drum rotatably mounted intermediate of the arms of the clevis, a shaft upon which the drum is mounted composed of two separate sections one of which being stationary and supporting the clevis and the other being rotatable and actuating the drum and means for rotating the last mentioned portion of the shaft.

1,351,888. METHOD FOR PRODUCING ASYMMETRIC CARBAMIDS. AXEL VIGGO BLOM, Berne, Switzerland. Filed Apr. 3, 1919. Serial No. 287,212. 4 Claims. (Cl. 23—24.)

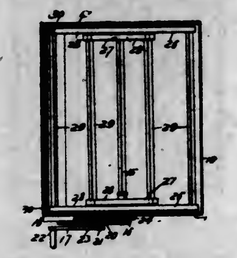
1. The hereindescribed process for the production of asymmetric carbamids, which consists in causing amidonaphthoisulfacid and primary diamins of the aromatic series, containing two primary amido groups reacting with different velocities, to continuously commingle in molecular amounts at a temperature of about 40° Celsius with phosgen, and immediately neutralizing the muriatic acid split off during the reaction.

1,351,889. PROPORTIONAL SPACER. MICHAEL E. CONCANNON, Chicago, Ill. Filed Nov. 15, 1919. Serial No. 338,216. 4 Claims. (Cl. 33—192.)



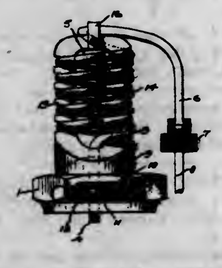
1. An instrument of the character described having in combination two bars overlapping and slidable longitudinally of each other; a head on one end of each bar; a pantograph structure having its terminal ends connected to the respective heads, and a punch guide carried by the pivoted joints of the pantograph structure.

1,351,890. MASHING AND MIXING MACHINE. ROAS C. COX and JOHN F. MCGINNITEY, St. Joseph, Mo. Filed Mar. 9, 1917, Serial No. 153,689. Renewed Feb. 26, 1920. Serial No. 361,412. 1 Claim. (Cl. 259—105.)



A device of the kind described comprising a container, a longitudinal element polygonal in cross section and mounted for rotary movement in the container, a beater frame united with the element, a second beater frame between which and the first said beater frame and element there is relative passing movement, and means for rotating the element and its attendant beater frame, both beater frames having longitudinal rails polygonal in cross section and paralleling the element and so disposed in their frame as to function their corners as cutting edges, the rails of the second said beater frame passing between the element and the rails of the first said beater frame, so that a substance being mashed will be cut by the rails of both frames and crushed between the corners of the element and the rails of the second beater frame.

1,351,891. CONDENSER FOR RADIATORS. JULIAN R. BRANDON, Jr., San Francisco, Calif. Filed June 6, 1918. Serial No. 238,455. 5 Claims. (Cl. 257—25.)



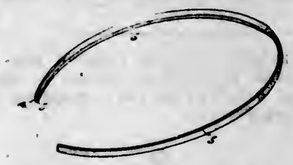
1. In combination with the removable cap of a radiator, a tubular helix coil having its inlet end fixed in said cap and open to the interior of the radiator and extending exteriorly thereabove and having a descending overflow tube terminating below the top of said radiator, and a base fixed to said cap having notched supports thereon engaging the coils of said helix.

1,351,892. MINING-MACHINE. CLYDE S. CORRIGAN, Norwood, Ohio. Filed July 30, 1919. Serial No. 314,249. 8 Claims. (Cl. 262—33.)



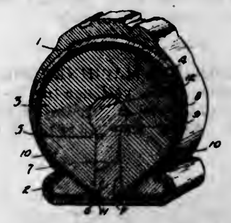
6. A chain saw for cutting minerals, comprising links pivotally secured together and having triangular shaped sockets therein, and diamond shaped teeth removably mounted in said sockets.

1,351,893. HAT-SIZE REDUCER. HARRY D. CURTIS, Red Bank, N. J. Filed Sept. 24, 1919. Serial No. 325,850. 2 Claims. (Cl. 2—32.)



1. A size-reducer for hats comprising a strip of cushioning material having plies of flexible sheet material secured to opposite sides thereof by an adhesive material, said plies of sheet material being coated on their outer sides with a moisture-proofing material rendered adhesive by heat for securing the reducer to a hat and preventing the penetration of moisture to the plies of sheet material and the strip of cushioning material.

1,351,894. RESILIENT CORE FOR TIRES. JAMES H. DALBEY, Elgin, Ill., assignor to Elgin Rubber Ace Company, Elgin, Ill., a Corporation of Illinois. Filed Apr. 16, 1920. Serial No. 374,313. 7 Claims. (Cl. 152—5.)

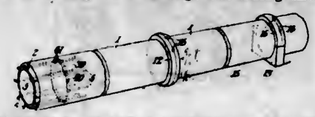


7. The herein described system of filling tire casings with resilient fillers, which consists in providing main ring filler members of substantially the size and dimensions of the casings to be filled, and provided with key hole shaped slots at their inner peripheries having flared sides, and providing a series of auxiliary filler rings for placement in and to fill said slots, the auxiliary fillers having different dimensions so that a filler suitable for a selected casing can be used for completely filling the casing.

1,351,895. CONCRETE PIPE CONSTRUCTION. HARRY EDGAR DILLON, Philadelphia, Pa. Filed June 16, 1919. Serial No. 304,418. 10 Claims. (Cl. 72—53.)

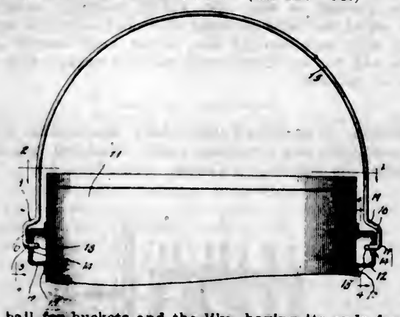
6. The combination with a hollow body having one end tapered; of members projecting outwardly at said end thereof in transverse relation to the axis of said body; another such hollow body having similar members; the projecting ends of said members of the respective bodies

overlapping in the direction of the length of the structure and forming wedge seats between them, and said tapered ends forming a channel; metallic coupling links, each encircling adjoining ends of said members of the respective bodies; a wedge member, including a bar of wedge shaped cross section, having its thin edge extending inwardly be-



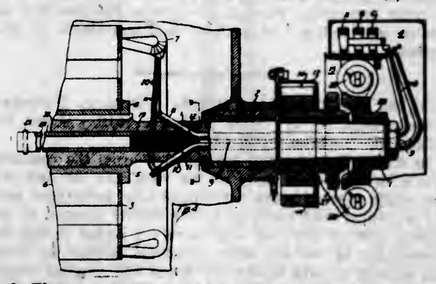
tween said overlapped ends, and forming a hoop substantially concentric with the axis of said structure; said wedge bar exerting tensile strain upon said members to hold said bodies together, and sealing means in said channel embedding the interlocked portions of said members and forming a liquid tight joint between said bodies.

1,351,896. BAIL FOR CONTAINER-BODIES. JAMES H. DOYLE, Chicago, and WILLIAM J. KENNY, Cicero, Ill., assignors to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 18, 1917. Serial No. 186,873. 1 Claim. (Cl. 220—95.)



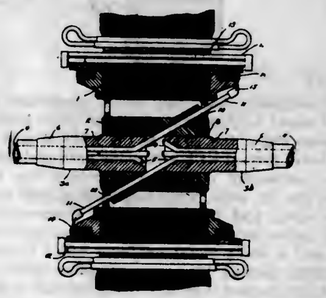
A bail for buckets and the like, having its ends formed for pivotal connection with the bail ears, one of said ends of the bail being bent to form an extremity which extends inward in a direction toward the other end of the bail [illegible] is adapted to be inserted in said direction into its bail ear after the other end of the bail has been connected with the other bail ear, the leg of the bail near said extremity being bent to form an offset which extends in a lateral direction and which is adapted to be twisted into line with the main portion of the bail, thereby turning said extremity into a lateral position to permanently secure it within the bail ear into which it has been inserted.

1,351,897. ROTOR FOR DYNAMO-ELECTRIC MACHINES. GEORGE M. EATON, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 7, 1916. Serial No. 76,602. 9 Claims. (Cl. 171—206.)



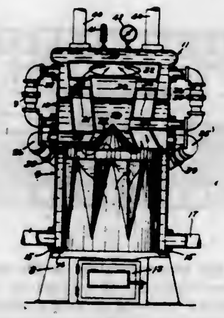
6. The combination with a hollow shaft having a plurality of inclined lateral ducts and a plug having corresponding ducts, of means for effecting registration of the shaft and plug ducts, and a plurality of conductors for out-of-phase currents, at least one of said conductors per phase being brought through each of said registering ducts.

1,351,898. ROTATABLE MEMBER FOR DYNAMO-ELECTRIC MACHINES. GEORGE M. EATON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 12, 1917. Serial No. 180,078. 2 Claims. (Cl. 171—206.)



1. A rotatable member for dynamo-electric machines comprising a magnetizable core and a divided shaft, one of the parts of which is provided with a longitudinally extending passage having a flaring end portion to provide a recess within said member, and a lead disposed within said passage and leaving said passage at said recess and extending to the opposite side of said core.

1,351,899. HOT-WATER HEATER. JOHN FLEISCHMANN, Minneapolis, Minn. Filed Aug. 11, 1919. Serial No. 316,531. 5 Claims. (Cl. 122—218.)



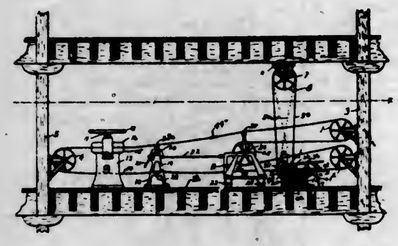
3. A hot water heater including fire pot, intermediate and top sections, each of which has an outer water chamber, said intermediate and top sections also having central water chambers spaced apart from their outer water chambers to afford a secondary combustion chamber, water conduits connecting the outer water chamber in the intermediate section to the outer water chambers in the fire pot and top sections, other water conduits connecting the inner water chamber of the intermediate section to the outer water chambers in the fire pot and top sections, and communicating water passageways between the outer and central water chambers in the top sections, said conduits being in the form of union equipped pipes located outward of the heater and separably connecting the fire pot and intermediate and top sections, and holding the same in assembled relation.

1,351,900. SHIPPING AND DISPENSING CONTAINER. LOUIS J. FREUNDT, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed June 12, 1915. Serial No. 33,667. 2 Claims. (Cl. 220—31.)



1. A shipping and dispensing container comprising a sheet metal body, a stiffening and hinge wire at its top edge over which the edge of the body is curled, a sheet metal cover formed with a circular nesting depression having an outwardly inclined wall which fits within and against the top edge of the body and is bent over the top of the same and terminates in a downward curl open at the under side and fitting over the said curl of the body, and a sheet metal bendable hinge element having its middle portion bent around under said hinge wire and its ends passed through the top portion of the said curl of the cover, and bent down in the form of hooks engaging partly around the same in a downward direction, said ends being free and bendable up from the cover to entirely remove the same, the said curl of the cover having downwardly extending lips 23 adapted to be bent under the curl of the body and to be bent out therefrom, to secure and to release the cover and permit the hinging or entire removal of the same.

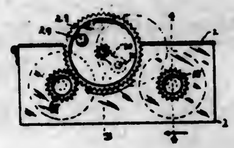
1,351,901. APPARATUS FOR MANUFACTURING BELTING. EDWARD F. GINGRAS, Buffalo, N. Y. Filed Feb. 9, 1917, Serial No. 147,608. Renewed Feb. 12, 1920. Serial No. 358,131. 5 Claims. (Cl. 154—3.)



1. Apparatus for treating fabric in the manufacture of belting, the same consisting of a plurality of rollers disposed to support the fabric in endless arrangement with a portion of such fabric between contiguous rollers forming a reëntrant loop between the main runs, a roller disposed in such loop and engaging the bight thereof, means normally tending to press the roller against the bight of the loop to tension and stretch the endless fabric, a tank for receiving a solution, and means mounted upon the tank for deflecting the fabric into the solution contained therein.

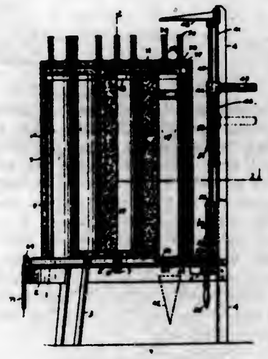
2. Apparatus for treating fabric in the manufacture of belting, the same comprising a plurality of rollers for supporting the fabric in endless arrangements with a reentrant loop portion, a tension roller supported in the bight of the loop, means normally pressing the tension roller against the bight, a tank containing a solution, means for deflecting the fabric into the solution of the tank and removing the excess of solution, and a press for acting on a portion of the fabric while the same is under tension,

1,351,902. RECORDING APPARATUS. CLAIR E. GODDARD, Omaha, Nebr. Filed Dec. 16, 1919. Serial No. 345,446. 2 Claims. (Cl. 281—7.)



1. A recorder comprising a casing, a shelf therein, a cover for the casing having an opening over the shelf, a pair of reels in the casing adapted to wind and unwind a web back and forth over said shelf, each reel comprising a pair of end disks having depressions therein constituting bearing for the reel, one of the depressions being formed with angular walls, pivot pins journaled in the casing at one side and having ends engaging in the depressions of the adjacent disks, said pins having grooves therein, latches pivoted in the casing and normally resting in the grooves to lock the pins in place, stub shafts journaled in the opposite wall of the casing and having angular ends for fitting in the angular depressions of the disks, pinions on said stub shafts, manually rotatable gear wheel journaled to swing alternately into and out of mesh with said pinions, and drums held between said disks and having means to detachably engage with the ends of the web.

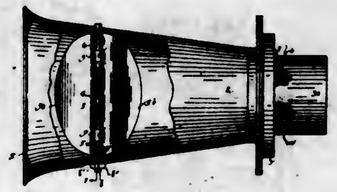
1,351,903. ICE-CREAM-DELIVERY MACHINE. FUSATARO HARA, San Francisco, Calif. Filed Oct. 29, 1918. Serial No. 260,196. 6 Claims. (Cl. 107—14.)



3. In an ice cream delivery machine, the combination of a rotatable vessel, vertical ice cream containers arranged in a concentric circular series in said vessel, each opening through the bottom of the said vessel, a follower in each container having a lateral extension, and means for repeatedly depressing through a uniform distance the extension and follower of each of said containers in succession.

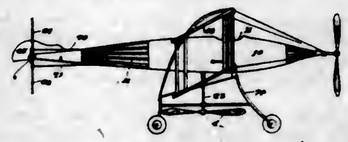
1,351,904. AUTOMOBILE-HORN. PETER B. HARTMAN, Watertown, N. Y. Filed Nov. 28, 1919. Serial No. 341,186. 1 Claim. (Cl. 116—137.)

In means for silencing automobile horns, the combination with the hollow body of the horn, the top and bottom walls thereof being correspondingly perforated near the mouth of said body, of a bolt rigidly secured to the bottom wall of the body and having a socket facing the perforation in the top wall, a spindle having its lower end pivoted in said socket, its upper end passing loosely through said top perforation, and a damper supported by said spindle and rotatable therewith by the force of the atmospheric pressure induced by the movement of the automobile, for preventing humming and droning of the



horn, said damper being smaller than the bore of said body for preventing the muffling of the signal notes of the horn.

1,351,905. FLYING-MACHINE. PETER L. HARVEY, Chicago, Ill. Filed Dec. 18, 1918. Serial No. 267,418. 1 Claim. (Cl. 244—29.)



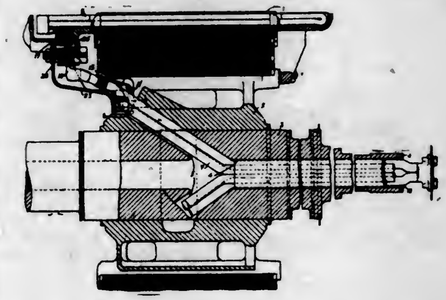
In a flying machine, a body, pairs of wings on opposite sides of the body, spaced vertically from each other, the opposite pairs being connected together for simultaneous movement, and being pivoted at their forward edges, a pair of rudder members pivoted along adjacent edges at the rear of the body along a line which is horizontal when the machine is in its normal position, and adapted to swing from horizontal adjacent position to vertically oppositely extending position, and means for controlling the movement of the opposite pairs of wings, said means being adapted when actuated in certain ways to also control said rudder members.

1,351,906. VALVE FOR DEEP WELLS. CHARLES M. HEETER, Butler, Pa. Filed Sept. 29, 1916. Serial No. 122,846. 2 Claims. (Cl. 103—63.)



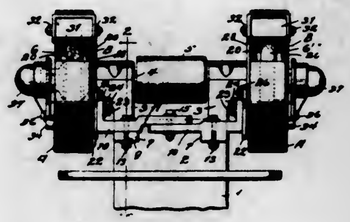
1. The combination of a tubular piston body provided at one end with a seat, a vertically slotted valve confining cage extending from the seat-carrying end of the body, and a valve within the cage adapted to cooperate with the seat, the valve having a spool shaped body with conically shaped ends.

1,351,907. ARRANGEMENT OF LEADS FOR DYNAMO-ELECTRIC MACHINES. RUDOLF E. HELLMUND, Swissvale, and BENJAMIN S. MOORE, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 5, 1917. Serial No. 178,600. 5 Claims. (Cl. 171—206.)



1. In a dynamo-electric machine, the combination with a shaft, a core mounted thereon and a winding carried by the core, of leads for the winding extending through the shaft and projecting beyond the core and means for individually supporting the leads beyond the core, said means comprising arms to which said leads are attached.

1,351,908. SAFETY-GUARD FOR ROTARY GRINDING-MACHINES. ANDREW F. HOWE, Granite City, Ill., assignor, by mesne assignments, to Howe Safety Appliance Company, Granite City, Ill., a Corporation of Illinois. Filed Dec. 27, 1916. Serial No. 268,523. 12 Claims. (Cl. 51—268.)

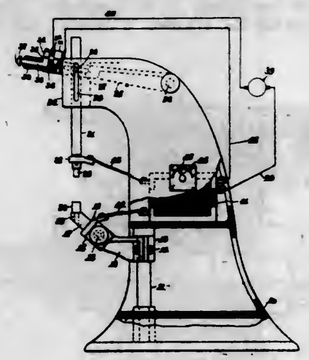


1. A grinding-wheel safety-guard comprising a pair of hood-shaped sections coöperating to inclose the wheel, in combination with means for supporting the guard as a whole around the wheel, said means including a separate plate having connection with a side wall of one of the sections.

1,351,909. METHOD OF AND APPARATUS FOR HEAT-TREATING METALS. LAWRENCE E. JOHNSON, Melrose, Mass., assignor, by mesne assignments, to Mattie S. Johnson, Melrose, Mass. Filed Nov. 11, 1918. Serial No. 262,078. 18 Claims. (Cl. 219—10.)

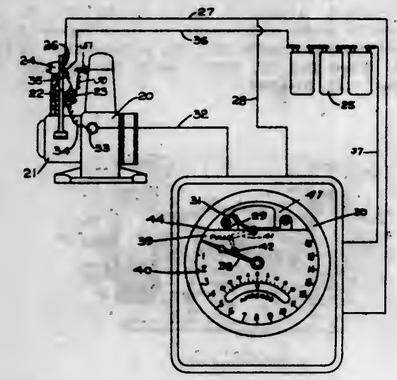
1. The combination of a die member composed of metal of low conductivity; a punch member movable toward said die member; supports for said members; electrodes surrounding said supports and composed of metals of high

conductivity; and means for transmitting a current of electricity through said electrodes from one member to the



other and through the work interposed between said members.

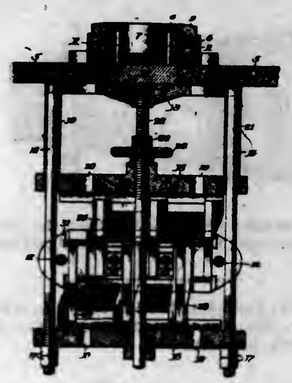
1,351,910. SYSTEM OF ELECTRICAL CONTROL. CHARLES F. KETTERING, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 3, 1917. Serial No. 152,348. 6 Claims. (Cl. 200—56.)



2. In a device of the character described, the combination with a meter; of switch actuating mechanism mounted thereon; and a detachably mounted unit secured adjacent said dial and having a pair of contacts thereon arranged to be actuated by said mechanism, said unit being removable without disturbing said contact operating mechanism.

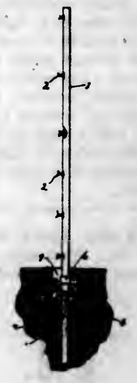
1,351,911. SPRING-DIE CUSHION. ROY D. KING, Chicago, Ill., assignor of one-half to John Nelson, Chicago, Ill. Filed Apr. 15, 1918. Serial No. 228,805. 15 Claims. (Cl. 113—46.)

1. In a spring die cushion, the combination of a member adapted to be fixed to a stationary part of a press, a member adapted to be attached to a movable part of said press, toggle levers interposed between said members, a spring arranged to resist movement of said members, and means for adjusting the normal relative position of said



members whereby the variable resistance offered by said spring may be regulated.

1,351,912. METALLIC FENCEPOST. CARL KLEIN, Wichita, Kans. Filed Aug. 7, 1919. Serial No. 315,868. 1 Claim. (Cl. 189—92.)

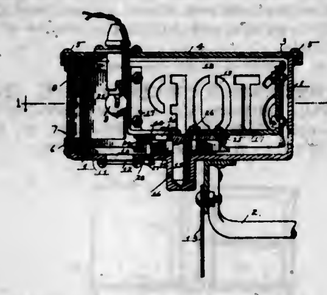


In combination as a self anchoring fence post, a tubular post having a truncated sheet metal cone fixedly sleeved around said post at a distance from the lower driving end of said post; a tubular sleeve, slidably mounted around said post and above said cone, provided with depending flexible prongs extending downwardly along said tubular post; the lower driving end of said post being adapted to be entered in a post hole and to be then driven down until said cone bottoms on the floor of such hole and the said tubular sleeve upon then being driven down, the depending prongs will contact said cone and be forced outwardly to an anchorage in the ground, all in the manner and for the purposes as specified.

1,351,913. DIRECTION-INDICATOR AND TAIL-LIGHT FOR VEHICLES. JACOB KLUNDER, Grand Rapids, Mich. Filed Nov. 5, 1919. Serial No. 335,885. 4 Claims. (Cl. 116—43.)

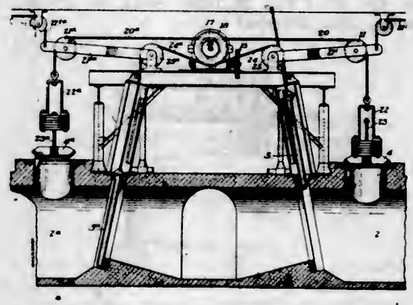
2. In a device of the character described; an open-top casing having a light-transmitting side portion; a closure for the open top of the casing removably secured thereto; a member insertible into the casing through its open top and carrying signals and having a journal; a bearing into which the journal is freely insertible and in which said

member is turnable to move one or another of the signals to a position adjacent said light-transmitting portion; a



light within said member and carried by the closure; means extending outside the casing for turning said member.

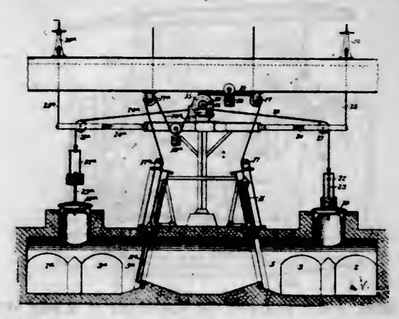
1,351,914. VALVE SYSTEM FOR REVERSING-FURNACES. LUTHER L. KNOX, Avalon, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Dec. 21, 1916. Serial No. 138,288. 3 Claims. (Cl. 277—6.)



1. In a valve system of the character described, the combination with air and gas flues leading to opposite ends of the furnace, each of the air flues having an air inlet valve and also an air reversing valve, each of the gas flues having a gas reversing valve, a gas inlet, each of the gas flues having a gas inlet valve, a shaft having actuating devices thereon for all of the air inlet valves, air reversing valves and gas reversing valves, a second actuating device for the gas inlet valves, lost motion devices between the air inlet valves and their actuating mechanism, and lost motion devices between the gas inlet valves and their actuating devices, said shaft and actuating devices being arranged to permit the operation of the several recited valves in a predetermined sequence, substantially as described.

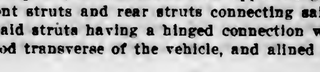
1,351,915. REVERSING-FURNACE. LUTHER L. KNOX, Avalon, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Dec. 21, 1916. Serial No. 138,289. 3 Claims. (Cl. 277—6.)

3. A valve system for furnaces, comprising a pair of air-inlet-valves, a pair of air reversing valves, a pair of gas inlet valves, and a pair of gas-reversing valves, a motor having actuating connections with the air inlet and the air reversing valves, a second motor for the gas inlet valves, and a third motor for the gas-reversing valves, said motors being arranged for independent actuation, the actuating connections between each motor and the pair or pairs of valves controlled thereby being arranged to move one valve of each pair in advance of and in the reverse direction to the other one of the particular pair, together with means actuated by said connections



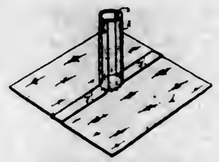
for indicating the position of a number of the said valves; substantially as described.

1,351,916. PENCIL. FRANK J. KRISTOFEK and HOWARD L. FISCHER, St. Paul, Minn. Filed May 7, 1918. Serial No. 233,174. 5 Claims. (Cl. 120—17.)



3. In a pencil of the class described, having a barrel portion formed of tubing, a conical shaped hollow forward end formed on said barrel, an opening formed through the apex of said conical end, a removable lead ejecting means adapted to be held under spring tension in said barrel, a lead holding finger slidably held in said ejecting means, a socket formed on the outer end of said finger and means in said finger forming an abutment for the lead held in said socket and for ejecting said lead from said socket substantially as described.

1,351,917. ASEPTIC APPLIANCE. ANNA O. KUHN, San Francisco, Calif. Filed Feb. 15, 1916. Serial No. 78,388. Renewed Mar. 9, 1920. Serial No. 364,520. 7 Claims. (Cl. 128—132.)

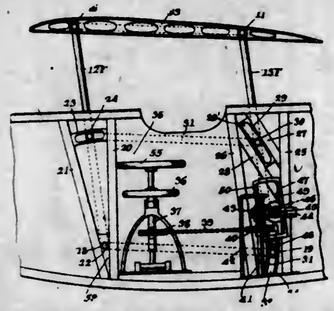


1. A device of the character described comprising a sheet of flexible material having a hole therethrough and a rubber tube extending from the sheet around the hole and having threads secured thereto lengthwise of the tube.

1,351,918. AEROPLANE. FREDRICK C. LAWRENCE, New York, N. Y., assignor to Emma K. Lawrence, New York, N. Y. Filed July 23, 1919. Serial No. 312,698. 4 Claims. (Cl. 244—29.)

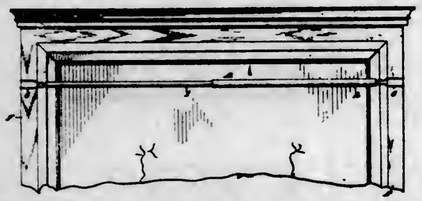
4. In a biplane, in combination, an upper wing, a lower wing, front struts and rear struts connecting said wings, each of said struts having a hinged connection with each wing, a rod transverse of the vehicle, and alined with the

main spar of the lower wing, a guide intermediate the ends of a front strut, a guide intermediate the ends of a



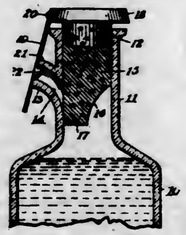
rear strut, and a guide at the lower end of a rear strut, each said guide being arcuate with its center on said rod.

1,351,919. CURTAIN-SUPPORT. WILLIAM I. LEVI, St. Louis, Mo. Filed Feb. 24, 1920. Serial No. 360,745. 4 Claims. (Cl. 156—19.)



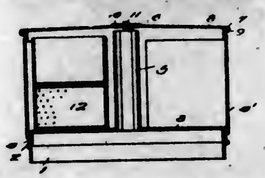
4. As a new article of manufacture, a curtain support comprising, in combination, a hollow pole consisting of complementing members telescopically adjustable relatively to each other, an extensile coiled spring extending lengthwise within, and having engagement at its ends with the ends of said pole-members, and window-frame engaging hooks at the ends of said pole-members having engagement only with the ends of the spring.

1,351,920. CONTAINER AND CLOSURE THEREFOR. RAYMOND V. MARCHSON, Washington, D. C., assignor to Frank H. Newham, Jr., Washington, D. C. Filed May 4, 1917, Serial No. 166,499. Renewed Dec. 9, 1919. Serial No. 343,645. 9 Claims. (Cl. 215—57.)



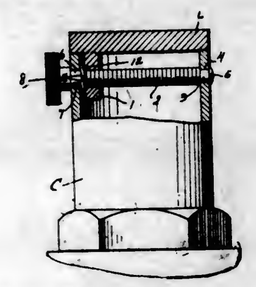
6. The combination with a bottle having a neck of smaller diameter than the body of the bottle, said neck having a mouth and a spout below said mouth extending laterally of the neck, said spout having a passage therethrough, a plug fitting in said mouth and turnable therein, a portion of the inner end of said plug opposite the inner end of said passage being cut away whereby said plug will serve as a valve to open and close said passage when the plug is turned, a rim on the upper end of said plug, and a comparatively stiff resilient metal strip secured at one end to said rim and having a part which extends downwardly across the outer end of said spout, said strip having a depression adapted to fit the outer end of said passage to close the same and latch said plug in position to close the inner end of said passage, said spout rim and strip being disposed within the margin of the body of the bottle.

1,351,921. COMBINATION COOKING DEVICE. HENRY LLOYD MENDAL, Baltimore, Md., assignor of one-fourth to Kate M. Langley, Baltimore, Md. Filed Jan. 21, 1919. Serial No. 272,372. 5 Claims. (Cl. 126—275.)



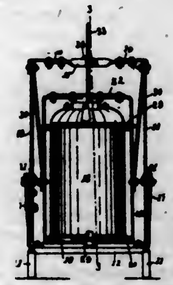
1. A combination cooking device comprising a base plate, a heat conducting flue comprising a number of branches diverging from the center and open at each end and affixed to said base plate, a cover above said heat conducting flue, and a revolving plate secured to said cover and provided with open spaces to serve as a damper.

1,351,922. GREASE-CUP LID. JACOB H. MILLER, Cresson, Pa. Filed Apr. 28, 1920. Serial No. 377,310. 5 Claims. (Cl. 184—94.)



4. In combination with a grease cup, a lid for said cup provided with an inwardly disposed lug and a rod rotatably supported by the cup and extending thereacross, said rod being in threaded engagement with the lug of the lid, said rod being provided with means for rotating the same, and a locking member carried by the rod and coacting with the opposed faces of the lug and the wall of the cup when the lid is in closed position.

1,351,923. TANK-RACK. EPHRIAM H. NELSON, Yale, Iowa. Filed Feb. 28, 1920. Serial No. 361,987. 3 Claims. (Cl. 248—58.)



1. In a device of the class described, a fixed upright frame substantially rectangular in outline, a substantially

rectangular movable frame, hangers connected with the upper parts of the upright members of the fixed frame, and extending downwardly within the outline of the fixed frame, spindles mounted in said movable frame and in the lower ends of said hangers, and in the upright members of said fixed frame, for pivotally supporting the movable frame between its ends, a bottom on the movable frame, and means for locking the movable frame in upright position.

1,351,924. HAIR-CLIPPER. VINCENT NICOSIA, Waco, Tex. Filed Mar. 29, 1919. Serial No. 286,121. 1 Claim. (Cl. 30—1.)



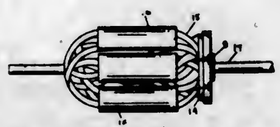
In a device of the character described, in combination with a hair clipper, of a detachable metal plate having a plurality of small tubular rollers of different diameters set in slits in and extending across the surface of the plate, the roller or rollers next the handles of said clipper being larger than those following in the ratio to provide a good cutting angle to the hair, the sides of said plate having suitable flanges to attach the device to the clippers.

1,351,925. SKATE. GEORGE H. RICKE, Cincinnati, Ohio. Filed Dec. 15, 1919. Serial No. 345,130. 3 Claims. (Cl. 46—51.)



1. In a skate of the class described, an ice skating runner supporting a foot piece, a metal cutter attached on one side of said runner at the bottom thereof, wheels and axles and means for attaching and removing same to and from skate runner.

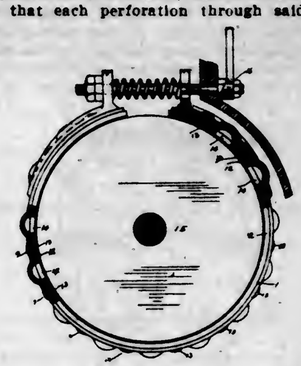
1,351,926. COMMUTATOR. HERMAN R. SAXON, Toledo, Ohio, assignor, by mesne assignments, to Electric Auto-Lite Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Apr. 17, 1916. Serial No. 91,754. 11 Claims. (Cl. 171—320.)



1. A method of building commutators comprising the anchoring of an annular series of terminals in a mold by means of interlocking elements on the mold and terminals respectively, casting of insulation about said terminals, and removing the terminals and insulation thus cast as a unit.

1,351,927. FRICTION BRAKE-BAND. DAVID B. SIMPSON, Wichita, Kans. Filed Oct. 21, 1919. Serial No. 332,229. 2 Claims. (Cl. 188—259.)

1. In combination, a metallic band and a friction lining secured thereto; said band being provided with a plurality of embossed receptacles arranged at spaced intervals thereupon and said lining being provided with a plurality of perforations arranged longitudinally around said lining so that each perforation through said lining is



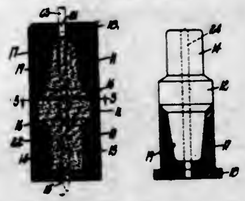
brought into registry with a corresponding receptacle upon said band for the purpose as specified.

1,351,928. MOBILE ARMAMENT. MASSEY SITNEY, Brooklyn, N. Y. Filed Mar. 24, 1917. Serial No. 157,068. 15 Claims. (Cl. 89—40.)



1. An armored vehicle comprising an inclosed body having hinged lids and a bottom adapted to be swung about the forward end into an upright position to constitute a support.

1,351,929. MOLD AND PROCESS FOR FORMING PORCELAIN INSULATORS THEREIN. ERNEST J. TAYLOR, Everett, Mass. Filed Aug. 9, 1919. Serial No. 316,366. 6 Claims. (Cl. 25—3.)

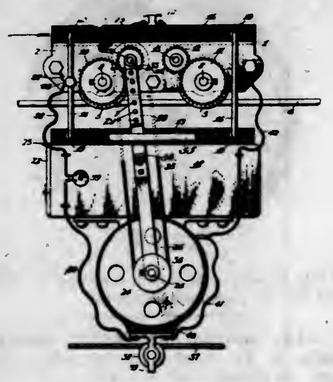


1. A mold having, in combination, a main body portion, said main body portion being provided with a longitudinally extended bore and also being provided with vents, and a plunger adapted to slide within said bore and into endwise engagement with plastic material contained within said bore, whereby said material may be compressed endwise into a pre-determined shape, said plunger also being adapted to vertically position said compressed material and after the same has been removed from said mold.

1,351,930. AUTOMATICALLY-OPERATING MOTOR DRIVEN CARRIER. CLARENCE O. TRACY, Denver, Colo. Filed Mar. 13, 1919. Serial No. 282,512. 6 Claims. (Cl. 104—149.)

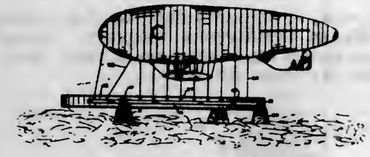
1. In an electrically operated carrier of the character described, the combination with current feed wires, one of which is a track wire, of a trolley on the track wire whose wheel shafts have gear wheels thereon, a pinion in mesh with one of said gear wheels, a parcel carrier and a motor suspended from said trolley, a bracket secured to, but insulated from said motor, having a sheave wheel for supporting the other feed wire, the motor terminals being connected, respectively, with the trolley, and with the

sheave wheel bracket, an arm loosely mounted at one end on the motor shaft, and having a spindle rotatably mounted in its opposite end, a gear rigidly mounted on one end of the spindle and adapted to mesh with one of the trolley shaft gear wheels, or with the pinion which meshes with the other gear wheel, a wheel on the other



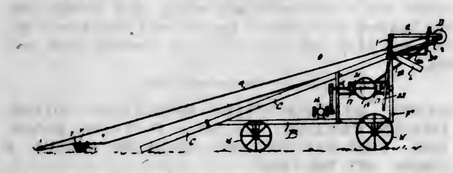
end of the spindle, a wheel on the motor shaft, and an endless flexible connection connecting the two wheels, means for automatically shifting the arm to throw the pinion out of gear with one wheel and into gear with the other wheel, and means for holding the arm in either position.

1,351,931. APPARATUS FOR MOORING AIRSHIPS. EMANUEL S. ULLMANN, New York, N. Y. Filed Sept. 4, 1919. Serial No. 321,526. 9 Claims. (Cl. 244—2.)



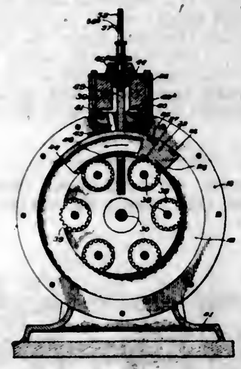
1. An apparatus for mooring airships comprising a fixed support, a pivoted mooring member mounted to turn on said support and provided with means for the engagement of the mooring ropes of an airship, and means for holding said mooring member against upward movement, including a stationary guideway in which the outer portion of said mooring member is adapted to travel and by which it is held against upward movement.

1,351,932. LOADING APPARATUS. WARREN UNGER, Kentland, Ind. Filed July 26, 1919. Serial No. 313,520. 1 Claim. (Cl. 214—110.)



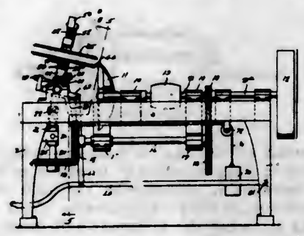
A loading apparatus, comprising, in combination, a portable body, a chute carried by said body and disposed on an upward incline, a frame coacting with said body and the upper end portion of the chute, forwardly directed beams carried by the side portions of the chute at the upper end thereof, a driven member supported between said beams, a scoop, a connection between the scoop and the driven member whereby said scoop may be caused to travel along the chute upon rotation of said driven member in one direction, a motor supported by the body below the chute and in driving connection with the driven member, said connection including a reversing mechanism, a substantially vertically disposed lever having its upper portion pivotally engaged with the inner end portion of one of the beams, said lever being arranged to one side of the chute and the supporting frame therefor with its lower end terminating in close proximity to the body, said lever operating the reversing mechanism and adapted for manual operation, a rock member supported by the outer end portions of the beams at a point inwardly of but in close proximity to the driven member, and a connection between the rock member and the lever whereby the direction of movement of the driven member is reversed upon contact of the scoop with the rock member.

1,351,933. ROTARY ENGINE. WILLIAM J. VAN OSDEL, Chicago, Ill. Filed Feb. 3, 1919. Serial No. 274,679. 22 Claims. (Cl. 60—44.)



1. A rotary engine embodying a cylinder, a floating piston movable in the cylinder, a driven shaft separate from the piston, a plurality of separate pinions operatively connected with the shaft, and a rack connected with and extending substantially the entire length of the piston and successively engaging the pinions for driving the shaft, and an abutment movable into and out of the path of movement of the piston, said abutment having an opening therein and through which opening the piston passes.

1,351,934. BARREL-HEAD MACHINE. TIMOTHY F. WARD, Earleys, N. C. Filed Dec. 5, 1919. Serial No. 342,580. 5 Claims. (Cl. 147—38.)



1. The combination with a saw, of a shaft formed in two sections connected by a flexible joint, each of said sections being pivotally mounted between its ends to swing in a plane parallel to the axis of the saw, one section being provided with a work holder and the other section being provided with a driving device engageable or disengageable by the swing thereof, and means for adjusting the section provided with the work holder radially of said work holder.

1,351,935. SELF-LUMINOUS WRITING OR READING DEVICE. PAUL M. WILLIS, Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 17, 1917, Serial No. 202,606. Renewed Jan. 24, 1920. Serial No. 353,814. 5 Claims. (Cl. 240—1.)



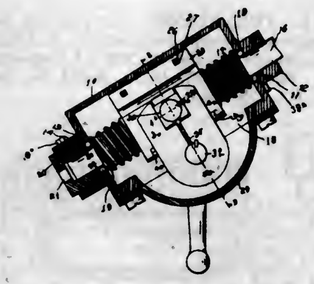
1. A luminous writing or reading device comprising a base member, means for holding a record sheet thereon, and a self-luminous sheet slidably connected with the base member in position to the slide under successive portions of the record sheet, whereby to successively illuminate said record sheet portions by transmitted light.

1,351,936. SASH-FASTENER. ANDREW A. WILSON, Norfolk, Va. Filed Oct. 4, 1919. Serial No. 328,391. 5 Claims. (Cl. 292—117.)



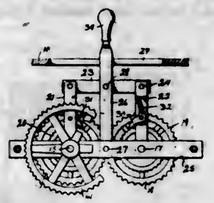
1. A sash fastener comprising a substantially S-shaped locking lever having beveled surfaces at each side of its fulcrum, and a bell crank lever movable in a plane at right angles to that of said locking lever and having its arms beveled to co-act with the arms of said locking lever, and means for actuating said bell crank lever.

1,351,937. COMBINED WORM AND LEVER STEERING-GEAR DEVICE. FRANCIS B. ALLDREDGE, Des Moines, Iowa. Filed May 29, 1919. Serial No. 300,558. 8 Claims. (Cl. 74—79.)



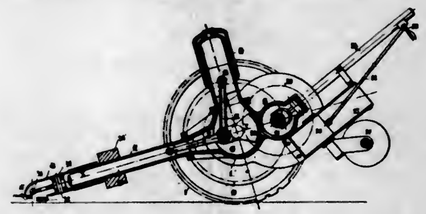
1. In a device of the class described; a casing; a steering shaft mounted therein, having a worm formed thereon; a nut on said worm having opposite spindles; a shaft mounted in said casing; a sleeve on said shaft, having opposite pairs of arms extending to position adjacent to said spindles; two-part bearings for the respective spindles, mounted between the arms of each pair; and a steering arm on said second shaft.

1,351,938. SPRING-WINDING MECHANISM FOR PHONOGRAPHS. WILLIAM M. ALLEN, Merrill, Wis., assignor of one-fourth to Richard B. Runke, Merrill, Wis. Filed Sept. 18, 1918. Serial No. 254,572. 2 Claims. (Cl. 74—54.)



1. In a mechanism of the character described, a driving shaft, a gear wheel mounted thereon, a second shaft extending parallel to the first named shaft, a gear wheel mounted thereon and meshing with the first named gear wheel, ratchet wheels mounted upon both of said shafts and having teeth extending in opposite directions, two pairs of arms disposed in parallel relation to each other, each pair being loosely mounted upon one of said shafts, and the arms of each pair being disposed on opposite sides of the corresponding ratchet wheel, oppositely directed pawls mounted upon each pair of arms, each pawl being mounted between a pair of arms and engaging their corresponding ratchet wheels, springs urging said pawls into engagement with the ratchet wheels, a link disposed between and connecting the outer ends of the pairs of arms and pivotally connected thereto, and an operating lever pivotally supported between said arms and extending parallel thereto, the pivot of said lever being in line with the shafts and the link being pivotally connected at its middle to said lever.

1,351,939. SHEARING AND MOWING MACHINE. PAUL ANDRÉ, Le Val D'Ajol, France. Filed Jan. 22, 1919. Serial No. 272,516. 7 Claims. (Cl. 56—25.)

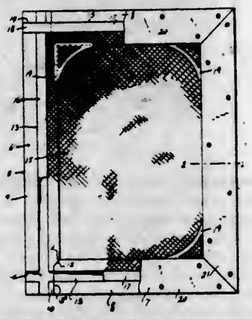


1. In a mowing machine, the combination of a main frame, a pair of wheels supporting the same; a crank shaft journaled in said frame and having said wheels mounted on its ends; an internal combustion engine mounted on said frame and including a piston connected to rotate said crank shaft; a tubular case connected to said fsame at the front thereof; a cross-head connected to the front portion of said case; cutting mechanism mounted on the cross-head; a bar mounted to reciprocate in said case and connected at its front end to operate the cutting mechanism; and a link connection between the rear end of said bar and the crank portions of said shaft.

1,351,940. SCREEN DOOR AND WINDOW CONSTRUCTION. DAVID C. BLAKE, Durham, N. C. Filed Apr. 12, 1920. Serial No. 373,217. 1 Claim. (Cl. 156—14.)

A screen closure comprising two sections adapted to engage each other, each section including top, bottom and side members, each of the members of one section having a longitudinal groove in one face thereof, the end portions of said side members having a laterally extending mortise groove intersecting the end portions of the longitudinal groove, the end portions of the top and bottom

members of said section engaging the side portions of the side members, screen fabric extending over said sections and having its ends disposed in the groove, key members disposed in said grooves for holding the screen fabric therein, the end portions of the key of the top and bottom members extending beyond the ends of said members to provide tenons, said tenons being disposed in the



mortise grooves of the side members, the top and bottom side members of the other section having their ends mitered and engaged with each other, the end portions of the top and bottom members of the second mentioned section extending over the adjacent joints and tenons of the first mentioned section, and means for securing said sections to each other.

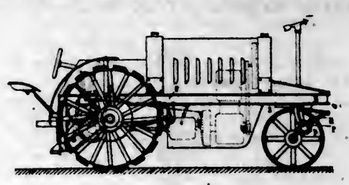
1,351,941. SLIDING CALIPERS. ETIENNE CHALLET, Genève, Switzerland. Filed Oct. 22, 1919. Serial No. 332,424. 1 Claim. (Cl. 33—158.)



In calipers, an arm formed with a longitudinal groove having inclined sides provided with scales, the lower part of said groove being provided with marks or numerals corresponding to the graduation of said scales and a member slidable along said arm and having inclined faces lying in the same planes as the inclined sides of the arm, said faces being provided with vernier graduations to coöperate with said scales.

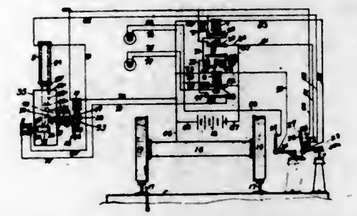
1,351,942. AGRICULTURAL TRACTOR. BAPTISTE ALFRED JOSEPH CHAPRON, Puteaux, France. Filed July 25, 1918. Serial No. 246,726. 5 Claims. (Cl. 180—17.)

1. In a motor-driven vehicle, the combination of a differential shaft or axle comprising a pair of shaft sections arranged end to end; a differential mounted on said axle and comprising a fixed outer casing, a rotatable inner casing, a driving gear encircling the inner casing and fixed to it, and a set of differential pinions arranged in pairs within the inner casing, one of said pairs of pinions being loosely mounted upon the inner ends of the shaft sections and having their hubs formed with notches and the other pair being fixed to said inner casing to rotate therewith, the ends of the inner casing terminating short of the notched ends of said pair of pinions and being formed with notches which register with said pinion notches; a pair of slidable sleeves keyed to said shaft sections and



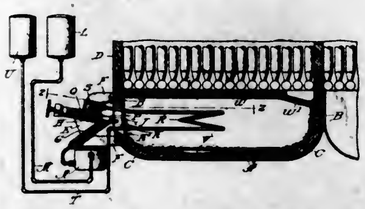
extending into the ends of the outer casing, said sleeves having toothed inner ends for engagement alternatively with the pinion notches alone or with both the pinion and inner casing notches; and individual operating means for said sleeves.

1,351,943. CAB-SIGNAL SYSTEM. LUTHER RINGER, Buffalo, N. Y., assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y., a Corporation of Arizona. Filed May 29, 1917. Serial No. 171,612. 8 Claims. (Cl. 246—167.)



1. In a cab signal system, clear and danger traffic signals carried by a vehicle moving along a trackway, a route indicator carried by the vehicle, means for displaying a clear signal on the vehicle when safety conditions exist, means for displaying a danger signal on the vehicle when danger conditions exist, means for setting up a predetermined route indication on the vehicle as the vehicle approaches a point in the trackway where a plurality of diverging routes are possible, and means for displaying said route indication when a clear traffic signal is carried by the vehicle.

1,351,944. FUEL-BURNER, ABNER DOBLE, Detroit, Mich., assignor, by mesne assignments, to Double-Detroit Steam Motors Co., Detroit, Mich., a Corporation of Delaware. Filed Jan. 27, 1917. Serial No. 144,833. 7 Claims. (Cl. 158—29.)

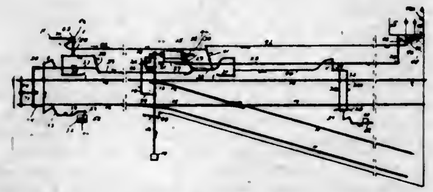


1. The combination of a liquid fuel nozzle and a source of liquid fuel connected thereto, a spraying nozzle arranged in aspirating relationship to said liquid fuel nozzle, and a source of combustible gas connected with said spray nozzle arranged to atomize and mix with the liquid fuel from said fuel nozzle.

1,351,945. METHOD OF CLEANING OIL AND GAS WELLS. JOHN R. DULANY, Pittsburgh, Pa. Filed Nov. 1, 1919. Serial No. 335,203. 3 Claims. (Cl. 166—21.)

1. The method herein described of removing deposits from oil and gas wells which consists in introducing water into the well, adding a dry compound of alkali-metal hydrate and aluminum to the water; permitting the solution thus formed to remain in the well for a period sufficient for the heat generated by the mixture to soften the oil and wax adhering to the sides of the well and then pumping it out.

1,351,946. AUTOMATIC RAILWAY SWITCH AND SIGNAL. ISAAC L. EDWARDS, Aurora, Ill. Filed May 14, 1912, Serial No. 697,325. Renewed Mar. 5, 1919. Serial No. 280,859. 6 Claims. (Cl. 246—257.)



1. The combination of the main line and switch, a switch-point moving means, including a distant controller, electric signals at the latter, a circuit including said signals, circuit-opening and closing means, operative connections between the latter and the switch point, a signal device having a movable member and situated alongside the main line, and an operative connection between said movable member and said controller.

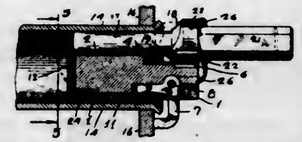
2. The combination of the main line and switch, a switch point moving means including a motor and a distant controller, electric signals at the latter, a circuit including said signals, circuit-opening and closing means, an operative connection between the latter and the switch point, means at the motor for controlling its operation, a connection between said means and the distant controller for operating said means by the controller, a signal device having a movable member and situated alongside the main line, a connection between said movable member and the controller and a connection between the controller and the means for starting and stopping the motor.

3. The combination of a main line, a switch, switch-point moving means, including a controller, distant from the switch, an electrical signal near the controller, a circuit including said signal and an electric switch connected with the switch point, an electric signal situated adjacent the main line in advance of the switch point, a circuit opener and closer for said last named electric signal, connections between said controller and said circuit opener and closer, a signal device having a movable member and situated alongside the main line, an operative connection between said movable member and said controller, the signal controller thus being operatively connected with the switch point moving means with said circuit opener and closer for the electric signal, and with the moving member of said signal alongside the main line.

4. The combination of the main line and switch, a switch point moving means including a motor and a distant controller, electric signals at the latter, a circuit including said signals, circuit-opening and closing means, an operative connection between the latter and the switch point, a train signal operating shoe mounted near the main line, a horizontally slidable frame carrying said shoe, and connections between said frame and said controller whereby the position of the shoe horizontally may be changed.

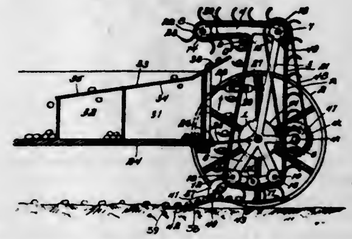
5. The combination of the main line and switch, a switch point moving means including a motor and a distant controller, electric signals at the latter, a circuit including said signals, circuit-opening and closing means, an operative connection between the latter and the switch point, a train signal operating shoe mounted near the main line, a horizontally slidable frame carrying said shoe, connections between said frame and said controller whereby the position of the shoe horizontally may be changed, and a signal operatively connected with said shoe and actuated by the movement thereof.

1,351,947. TOOL. WILLIAM A. FINDLEY, San Francisco, Calif. Filed Nov. 18, 1919. Serial No. 338,970. 10 Claims. (Cl. 153—79.)



1. A tool of the character described comprising a slidable and a rotative hammer having a plurality of shoulders thereon adapted to successively bevel, expand and bead the end of a tube onto a boiler head or the like; and a core having a bore on one side thereof to slidably and rotatably hold said hammer within said tube and adjacent the internal wall thereof.

1,351,948. POTATO PICKER OR GATHERER. CHARLES FOWLER, Tomkins Cove, N. Y. Filed Mar. 29, 1919. Serial No. 286,062. 5 Claims. (Cl. 55—17.)



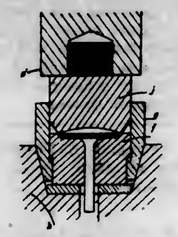
3. A device of the character described comprising an axle provided with suporting wheels, a frame mounted on said axle, gathering means at the lower end of the frame for picking up articles from the ground, an endless belt upon the frame provided with fingers to pick up and elevate the articles from the gathering means, said belt being provided with a delivery portion projecting horizontally beyond the vertical plane of the elevating portion of the belt, and means for transmitting driving motion to the belt.

5. A device of the character described comprising an axle, supporting wheels on the axle, a frame tiltably mounted on the axle, fastening devices arranged at different elevations for adjustably securing the frame to a traction member and holding the frame when secured against tilting motion, a grated gathering shovel at the lower end of the frame, an endless belt supported by the frame and provided with gathering fingers, said belt having an upper portion extending horizontally beyond the vertical plane of the ascending stretch of the belt, and means operative in the movement of the device for imparting motion to the belt.

1,351,949. PROCESS FOR FORGING VALVES AND SIMILAR ARTICLES. ERNEST FUCHS, Paris, France, assignor to Louis Renault, Billancourt, Seine, France. Filed Nov. 15, 1918. Serial No. 262,685. 1 Claim. (Cl. 29—157.)

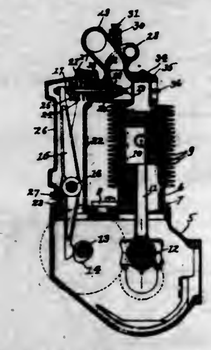
The process of forging valves of the class described having a head and stem, by first taking a section of metal

having a diameter between that of the finished head and stem, heating the same, forcing the hot metal through a



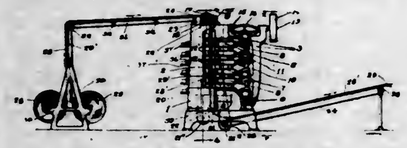
hole in a draw-plate to form the stem, leaving a roughly shaped head and thereafter completely forming said head between a die and suitable press tool.

1,351,950. INTERNAL-COMBUSTION ENGINE. RALPH M. GASTON, Chicago, Ill. Filed July 17, 1919. Serial No. 311,498. 6 Claims. (Cl. 123—177.)



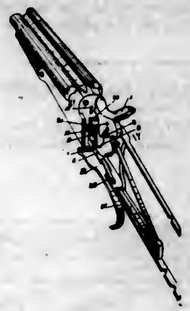
1. In an air cooled internal combustion engine, the combination of an engine cylinder, a valve rocker casing located laterally opposite to and spaced from said cylinder, a valve stem guide extending between said cylinder and rocker casing and in contact with both whereby it serves to conduct heat from said cylinder to said rocker casing, heat radiating fins on the circumference of said guide, and a valve stem mounted in said guide.

1,351,951. MULTIPLE-DISK-CUTTING APPARATUS. JAMES A. GRAY, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Jan. 6, 1919. Serial No. 269,783. 11 Claims. (Cl. 164—22.)



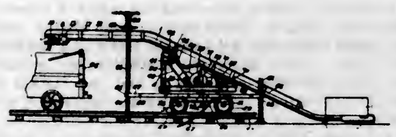
1. In an apparatus for the described purpose, the same comprising a suitable frame member, of feed means associated therewith for advancing a web of flat liner material therethrough in a substantially vertical direction, a support for a roll of liner material, a plurality of alined reciprocating punches and a plurality of associated alined cutting dies sustained by the frame member and between which punches and dies the web of liner material is moved, mechanism for imparting reciprocating movement to the punches for coaction with the cutting dies for the severing of a plurality of disks from the web of liner material, means for removing the punchings in a substantially horisontal direction, and means for removing the waste section of the web.

1,351,952. SHOTGUN AND THE LIKE GUN. JEAN LOUIS JOIRIS, Wandre, Belgium. Filed May 20, 1920. Serial No. 382,975. 4 Claims. (Cl. 42—42.)



1. A double-barreled gun comprising two hammers, a single trigger pivotally mounted on a pin, a sear for one of the hammers attached firmly to the trigger, a second sear for the other hammer pivotally mounted on the aforesaid pin, and a movable abutment on the first sear adapted according to its position to operate and to release the second sear.

1,351,953. LOADING-MACHINE. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey-Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 17, 1916. Serial No. 126,184. 28 Claims. (Cl. 193—8.)



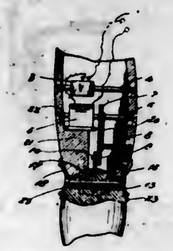
1. In a machine of the class described, the combination with a self contained conveyer comprising an elongated frame and conveyer and power devices mounted within said frame, of a removable substantially horizontal rail extending transversely beneath said frame upon which said conveyer may be moved to and supported in operative position, a collapsible support for said rail, and means to prevent the collapse of said support.

1,351,954. PRINTING-PLATE AND METHOD OF MAKING THE SAME. ISAAC W. LITCHFIELD, Newtonville, Mass., assignor to Litchfield Linoplate Co., Boston, Mass., a Corporation of Massachusetts. Filed July 3, 1919. Serial No. 308,441. 19 Claims. (Cl. 101—401.2.)



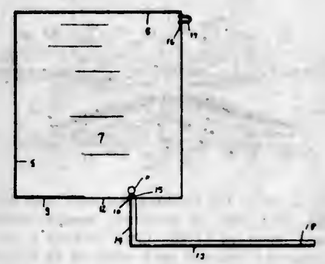
1. The method of making a printing plate which comprises assembling in plate formation a plurality of lines of type, positioning reinforcing means transversely of the lines of type at distributed points along the back thereof, and bonding said reinforcing means and lines of type into a rigid integral plate from which to make directly the printing impressions.

1,351,955. ARTIFICIAL LIMB. FRANK J. LOWRY, New Orleans, La. Filed Dec. 29, 1919. Serial No. 348,143. 4 Claims. (Cl. 3—2.)



1. In an artificial leg, means for actuating the lower portion thereof in imitation of a natural limb comprising an electric motor, a source of electrical energy, and means actuated by said motor to impart intermittent motion to said limb comprising a member rigid to said leg on one side of the knee joint, a member rotatably mounted in said leg on the other side of said joint, and means on said last-named member for intermittently engaging said rigid member during rotation of said last-named member.

1,351,956. TOWEL-DISPENSING CABINET. WILLIAM P. MCCORKINDALE, Holyoke, Mass., assignor to Emily K. Dietz, Philadelphia, Pa. Filed Dec. 6, 1919. Serial No. 343,087. 1 Claim. (Cl. 211—29.)

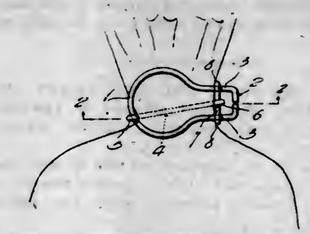


A dispensing cabinet for paper towels and the like consisting of a housing including side walls a top wall a rear wall and a bottom wall of less width than the width of the sides and extending from a point rearwardly of the center line of the container to the back wall, a pintle secured at its ends to the side walls and located between the forward edge of said bottom wall and the forward edges of the side walls, a front wall having on its lower end an extension constituting a bottom wall portion in its normal position and hingedly connected with said pintle, the front wall being adapted to be disposed against the forward edges of the side walls, and means for holding said front wall in its closed position, the extension of said front wall when in its normal position being disposed substantially in the same plane as the bottom wall and its rear edge being spaced forwardly from the forward edge of the bottom wall to provide a delivery opening, said container being adapted to receive a plurality of sheets so that the forward portions thereof will be supported by said pintle and the extension of said front wall.

1,351,957. [WITHDRAWN.]

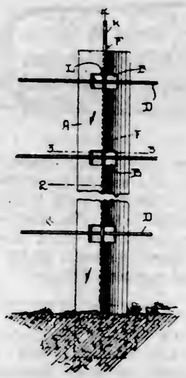
1,351,958. SACK-FASTENER. FREDERICK MARKWICK, Detroit, Mich. Filed Dec. 11, 1919. Serial No. 343,993. 1 Claim. (Cl. 24—30.5.)

A sack fastener comprising a substantially circular frame having a U-shaped offset at one side provided with parallel arms, an arched latch-bar of circular cross section having eyes at its ends slidably surrounding said arms, a longitudinally curved fastening arm of circular cross section having an eye at one end pivotally surrounding the



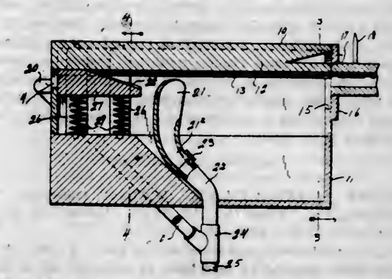
aforesaid frame and free to slide thereon to allow tightening of the fastening arm, the other end of said fastening arm having a hook engageable with said arched latch-bar.

1,351,959. FASTENING DEVICE FOR FENCE-WIRES. OTTO J. MINNICH, Boerne, Tex. Filed July 29, 1919. Serial No. 314,117. 1 Claim. (Cl. 256—52.)



In combination, an angle iron post having spaced pressed in V's in its angle portion, and a resilient rod adapted to slip into the corner of said post between said V's and the corner and retain wires in said pressed in portions, and provided with a bent back portion forming a hook to be inserted in the topmost of the said perforations from which said V's are pressed by the flexing of the body of the rod.

1,351,960. FLASH-ELIMINATOR. OSCAR C. MOYERS, Crosbyton, Tex., assignor of one-fourth to William A. Moyers, Crosbyton, Tex. Filed June 24, 1920. Serial No. 391,385. 4 Claims. (Cl. 89—31.)



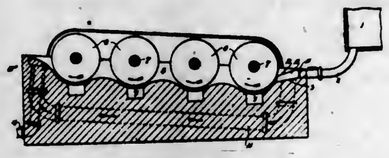
1. In a flash eliminator for firearms, a hollow casing, provided with a vertically directed rib extending longi-

tudinally thereof, said rib having its under surface upwardly concaved, openings formed in the ends of said casing alining with the concave lower surface of said rib, means for securing the muzzle of a firearm in alinement with one of said apertures, and a projectile deflected vertically shiftable member arranged within said casing adjacent the other of said openings to normally close the same.

1,351,961. SOLUTION FOR TREATMENT OF IRON AND STEEL. THOMAS I. MURPHY, St. Lawrence, S. D. Filed May 4, 1918. Serial No. 232,574. 1 Claim. (Cl. 148—14.)

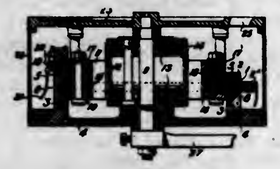
A solution for the treatment of iron or steel containing water 85%, coarse salt 11.7% dissolved therein, muriatic acid 1.9%, dissolved powdered alum .7%, and sal ammoniac .7%.

1,351,962. BEATING AND REFINING ENGINE. THOMAS HENRY NASH, St. Pauls Cray, England. Filed June 3, 1919. Serial No. 301,420. 7 Claims. (Cl. 92—25.)



1. A continuous beating and refining engine for pulp, stuff and the like, for use in the manufacture of paper including a series of beating rolls, means for causing said stuff to pass through said rolls, and means for causing said stuff to be returned and refed through said rolls at a different point along the width of the bed of the engine any predetermined number of times.

1,351,963. CONTACT OF ELECTRICAL-SWITCH GEARS. RODOLPH STUART O'NEIL, London, England, assignor to O'Neil's Recorder Syndicate Limited, London, England. Filed Jan. 24, 1920. Serial No. 353,764. 6 Claims. (Cl. 200—26.)



1. An electrical switch device; comprising in combination a pair of clamping rings in opposed relation to each other, a plurality of separate electrical contact members located between said rings, insulated therefrom, and adjustable in position in circumferential directions between said rings, and means for clamping said rings together to retain said contact members in the positions in which they have been placed.

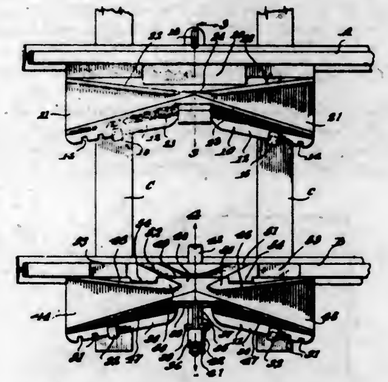
1,351,964. GARBAGE-CAN. MICHELE OROFINO, Philadelphia, Pa. Filed Oct. 13, 1919. Serial No. 330,364. 2 Claims. (Cl. 220—40.)

2. A receptacle comprising a can body, a pair of arms respectively secured to said body at opposite sides thereof, pins respectively held between said arms and said body, a bail connecting said arms, and a removable cover provided at each side with an opening, a laterally disposed passage and an open ended slot alined respectively with



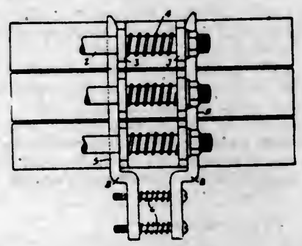
said pins, whereby said pins enter said passages to lock said cover to said body.

1,351,965. CAR-REPLACER. JAKOB PODIEN, Chicago, Ill. Filed July 9, 1919. Serial No. 309,748. 8 Claims. (Cl. 104—265.)



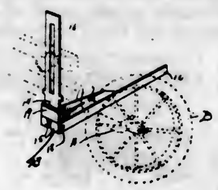
1. In a re-railer, the combination with rails and ties of a railroad, of a pair of members, means for attaching one of said members at the inner side of a rail, means for attaching the other of said members to the outer side of a rail, detachable means overlying the ball of the rail and associated with said last named member for guiding a wheel and flange across the rail to which the member is attached, and means for securing the members to the railroad ties.

1,351,966. ADJUSTABLE CLAMP. MILTON L. RADTKE, Detroit, Mich. Filed June 16, 1919. Serial No. 304,696. 4 Claims. (Cl. 29—89.)



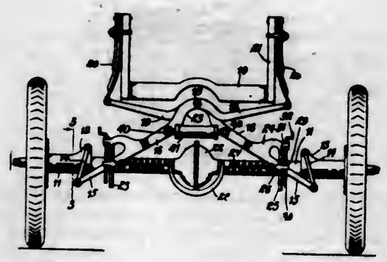
1. An adjustable clamp comprising a pair of clamping bars, and a plurality of bolts connecting corresponding end portions of said bars, said bolts being threaded into one of the bars and passing through oversize apertures in the other.

1,351,967. JOINT FOR METALLIC STRUCTURES. FRANK S. RECE, Dallas, Tex. Filed Aug. 20, 1919. Serial No. 318,837. 4 Claims. (Cl. 189—36.)



1. A structure having therein a longitudinal member having a web having an angularly extended terminal portion, a second member hingedly connected to the first named member adjacent said terminal portion, whereby said member shall abut against the terminal portion when the two members are turned at right angles to each other, and a collar on said second named member shiftable into a position to embrace and engage around said second named member and the terminal portion to hold the members in right angular position.

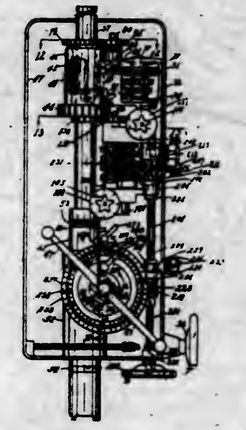
1,351,968. ANTIJOUNCE-SPRING CONSTRUCTION. JOHN J. REYNOLDS, Rantoul, Ill. Filed Feb. 15, 1918. Serial No. 217,343. 2 Claims. (Cl. 267—16.)



1. In a vehicle, a body, a front and a rear axle, two support levers pivoted intermediately of the body over each axle and extending divergently downward, laterally movable supports on each end of each axle connected to the outer ends of the respective levers constructed to permit considerable lateral movement of the levers with respect to the axle springs coengaged between the levers of each axle, the levers adjacent one axle having respective upper extensions toward the sides of the vehicle opposite their lower ends and weight supporting connections between the said extensions and the body; whereby the body may rock relatively to the said one axle, said body being pivotally supported directly upon the pivot of the levers adjacent the other of said axles fixed within certain limits with respect to the horizontal.

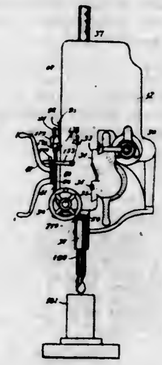
1,351,969. FEEDING MECHANISM FOR METAL-WORKING MACHINERY. AUGUSTUS M. SOSA and ALBERT E. ROBINSON, Cincinnati, and HERMAN W. SCHATZ, Norwood, Ohio, assignors to The American Tool Works Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 23, 1917. Serial No. 198,034. 20 Claims. (Cl. 77—32.)

1. In a metal drilling machine, the combination of a drill-spindle, means for rotating the same, a gear rotating with said drill-spindle, a variable speed gearing arranged for operative connection with said drill-spindle for feeding the same axially, a pair of axially movable gears arranged for connection respectively with said first-named gear and said variable speed gearing, and means for moving said pair of gears axially out of coactive relation with



said first-named gear and said variable speed gearing and into coactive relation with the same.

1,351,970. FEEDING MECHANISM FOR METAL-WORKING MACHINERY. AUGUSTUS M. SOSA and ALBERT E. ROBINSON, Cincinnati, and HERMAN W. SCHATZ, Norwood, Ohio, assignors to The American Tool Works Company, Cincinnati, Ohio, a Corporation of Ohio. Original application filed Oct. 23, 1917, Serial No. 198,034. Divided and this application filed Feb. 17, 1919. Serial No. 277,597. 17 Claims. (Cl. 77—33.)

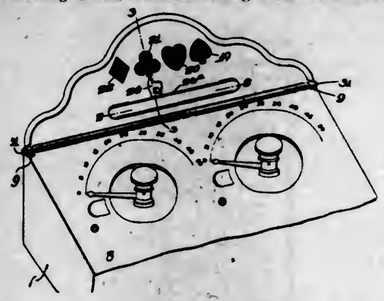


1. In feeding mechanism for metal working machinery, the combination of a tool-spindle, feeding means therefor comprising a face-plate and a rotatable member for feeding said tool-spindle, and means for causing inactive relation in said feeding means comprising a rocking member, an axially movable slide coacting therewith, said face-plate provided with a part adjustable about the axis of rotation of said rotatable member for actuating said slide, and resilient means acting to augment said last-named actuation during the end portion of said actuation.

1,351,971. TRUMP-INDICATING DEVICE. EDWARD STEIGERWALD, Philadelphia, Pa. Filed Feb. 2, 1920. Serial No. 355,718. 3 Claims. (Cl. 116—135.)

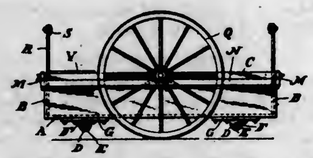
1. A device of the character described including a plate having symbol representations on its outer surface and a recess in its back; and an indicator having a resilient

portion frictionally slidable within said recess, said plate having a slot communicating with said recess and



leading to the outer surface of said plate and out of which the indicator projects; substantially as described.

1,351,972. COMPOSITE RAILWAY-CAR. SYLVESTER N. STEWART, Dayton, Ohio. Filed Apr. 3, 1920. Serial No. 371,051. 1 Claim. (Cl. 105—215.)



A railway car comprising a body, a pair of flanged wheels at substantially the front and rear thereof, adapted to travel on rails, an additional pair of wheels intermediate the first mentioned pairs of wheels journaled rigidly to said body and adapted to travel on a road, the lowermost point of the intermediate pair of wheels extending below the flanged wheels.

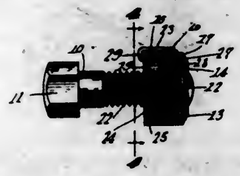
1,351,973. SWITCH-LOCK. LLOYD B. STONE, Tacoma, Wash., assignor to Star Device Manufacturing Company, King county, Wash. Filed June 16, 1919. Serial No. 304,531. 1 Claim. (Cl. 200—42.)



A switch comprising a base, a body secured thereto, having extensions on one end thereof, a slot extending longitudinally therein and transverse slots in the sides and bottom portion thereof, slides mounted in the transverse slots, two pairs of contact members having the contacts of each normally engaged, mounted on the extensions on either side of the body and adapted to be engaged by the slides, and a key having shoulders and recesses for coöperating with the slides to disengage the contacts of each pair of contact members.

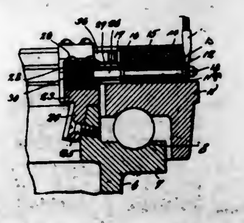
1,351,974. NUT-LOCK. JOHN ARTHUR STUBBLEFIELD, Oregon City, Oreg. Filed Feb. 24, 1920. Serial No. 360,588. 2 Claims. (Cl. 151—25.)

1. In a nut lock, a bolt engaging nut having a bore to receive the bolt therein, a substantially triangular recess in the nut communicating with the bore thereof at one of its apices, the recess being closed at its outer side, a pin rigidly mounted in the end wall of the recess and extending into the same, a tapered pawl having a slot slidably and pivotally engaging the pin and having parallel end walls conforming to the shape of the slot, and a resilient member in the recess at the outer side thereof



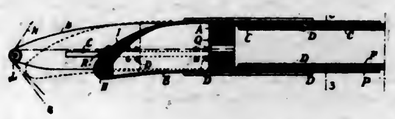
acting against said pawl and permitting movement thereof slidably to disengage from the bolt or pivotally at either side of the recess to permit turning of the nut in a direction opposite to the side at which the pawl is turned and prevent reverse turning, said pawl serving to lock the nut against turning in an intermediate position.

1,351,975. ELECTRIC-GENERATOR ATTACHMENT FOR WINDMILLS. HARRY H. TAYLOR, Hutchinson, Kans. Filed Aug. 5, 1919. Serial No. 315,525. 1 Claim. (Cl. 171—322.)



In a generator attachment for windmills, a support having a head, a brush holder comprising a circular body portion having an upper surface arranged in stepped formation, a depending lug secured to the head, said body portion having lateral openings formed therein, spring pressed brush members positioned in the openings, rotary contact rings coöperating with the brushes for conducting electricity, and means for revolving the rings.

1,351,976. FLYING-MACHINE. WILLIAM PHILLIPS THOMPSON, Liverpool, England. Filed Mar. 25, 1919. Serial No. 285,099. 7 Claims. (Cl. 244—12.)

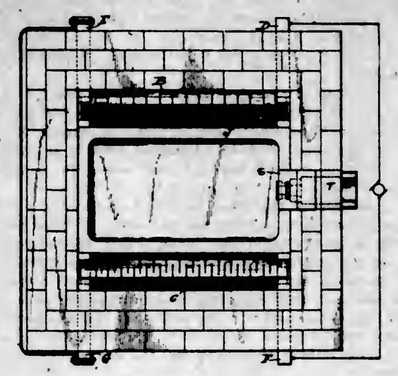


5. A tail box formed of side plates, means for easy movement, and coverings fixed to the side plates and open front, and means for propelling it forward, and means for bringing a strong pressure of wind against it, tending to drive it backward.

1,351,977. ELECTRIC FURNACE. JOHN THOMSON, Brooklyn, N. Y. Filed Nov. 19, 1919. Serial No. 339,119. 7 Claims. (Cl. 204—64.)

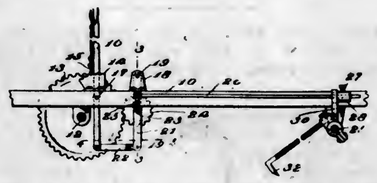
1. An electric furnace provided with a compounded, monolithic, zig-zag, carbon resistor formed of two limbs, the ends of each limb being connected to carbon terminals which pass out from the heating chamber to the exterior

of the furnace, and a metallic connector, outside of the furnace-chamber, attached to one terminal of each of said



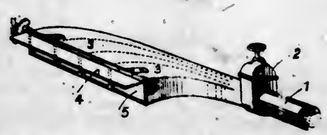
pair of terminals, whereby the limbs of said resistor may be electrically incited to series.

1,351,978. MECHANICAL MOVEMENT. WILLIAM P. ULRICH, Oslo, Minn. Filed Feb. 8, 1919. Serial No. 275,859. 4 Claims. (Cl. 74—14.)



1. A mechanism for converting continuous rotary motion into intermittent oscillatory motion, including a driven pinion, a driving pinion, means for moving the driven pinion into and out of engagement with the driving pinion, a rock shaft, and means actuated by the driven pinion for operating the rock shaft.

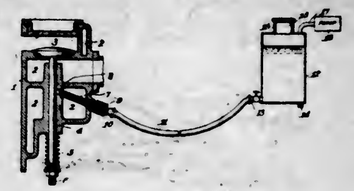
1,351,979. PROCESS AND APPARATUS FOR DREDGING BY SUCTION. MARCEL VALENTIN, Mexico, Mexico. Filed Jan. 3, 1919. Serial No. 269,501. 4 Claims. (Cl. 61—2.)



1. A suction head for dredging the beds of flowing streams, comprising a plurality of juxtaposed funnels connected together and adapted to rest upon the bed with their open mouths arranged in the path of the current, said funnels having their outlet portions curved laterally in the same direction and opening along a horizontal line perpendicular to the direction of flow of the current so as to concentrate along such line the suction created by the passage of the water through said funnels.

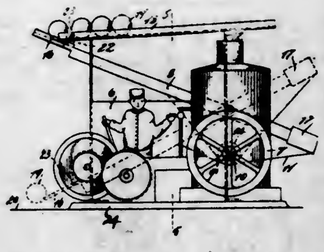
1,351,980. INTERNAL-COMBUSTION ENGINE. CHARLES WHITE, Glen Cove, N. Y. Filed Oct. 16, 1919. Serial No. 330,964. 4 Claims. (Cl. 123—198.)

1. In combination with an internal combustion engine provided with a valve which communicates with the interior of the cylinder, devices for removing carbon and the like from the valve and its stem comprising a reservoir for kerosene or similar carbon-removing material, having a sealing device, an air pump discharging into the upper



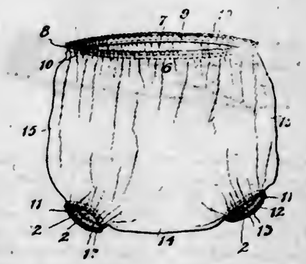
part of the reservoir and a pipe extending from the lower part of the reservoir and discharging against the stem of the valve.

1,351,981. TOY STEAM-SHOVEL. CARL F. ZIPF, Johnstown, Pa. Filed Feb. 11, 1920. Serial No. 357,809. 3 Claims. (Cl. 46—37.)



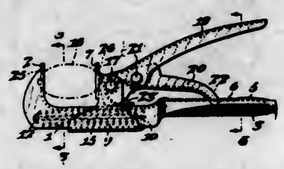
1. In a mechanical toy, an angularly disposed magazine to contain spherical elements and having an opening adjacent the lower end thereof to engage the spheres to prevent same from rolling out of the magazine, a gravity operated beam to remove the spheres one by one from the magazine, and means carried by the gravity operated beam, at the receiving end, to displace the spheres from the opening in the magazine, and cause same to roll onto said beam when said gravity operated beam is brought into position to receive a sphere from said magazine.

1,351,982. GARMENT-PROTECTOR. MARTIN ZWICKE, New York, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a Corporation of New York. Filed Sept. 18, 1919. Serial No. 324,356. 6 Claims. (Cl. 128—287.)



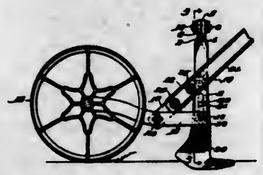
1. A garment formed from a flat blank, said blank being provided with leg openings formed in the body of the blank and entirely within the outline of the same, said garment being seamless and formed by gathering or shirring the blank around its entire outer edge to produce a bag-like body.

1,351,983. NUTCRACKER. SAMUEL L. ALLEN, Moorestown, N. J.; Sarah H. Allen, Charles J. Allen, Elisabeth R. Allen, Susan J. Allen, and Emily Allen Elfreth executors of said Samuel L. Allen, deceased. Filed June 22, 1916, Serial No. 105,119. Renewed Apr. 14, 1920. Serial No. 373,933. 3 Claims. (Cl. 146—3.)



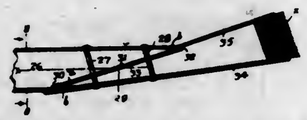
1. A nut cracker having a frame provided with a jaw and handle, a cross-head slidable on said frame and carrying a jaw in alinement with the jaw on said frame, a spring tending to force said jaws together, a handle pivoted to said cross-head, a pawl pivoted to said handle and arranged to engage said frame to effect the progressive approach of said jaws when said handles are relatively oscillated.

1,351,984. AGRICULTURAL IMPLEMENT. SAMUEL L. ALLEN, Moorestown, N. J.; Sarah H. Allen, Charles J. Allen, Elisabeth R. Allen, Susan J. Allen, and Emily Allen Elfreth executors of said Samuel L. Allen, deceased. Filed Feb. 5, 1917. Serial No. 146,653. 6 Claims. (Cl. 97—42.)



1. An implement of the class described, comprising frame members having transversely extending arms adjustably connected and provided with depending legs, arranged for attaching perpendicularly adjustable ground working tools, carrier supports connected with said legs, and diagonal braces connecting said legs and supports, and serving as handle brackets, said arms and legs being connected by intermediate portions which curve outwardly beyond the plane of said legs.

1,351,985. MUFFLER. HALVOR ANDRESEN, New York, N. Y., assignor to The Vacuum Muffler Corporation, New York, N. Y., a Corporation of New York. Filed May 24, 1917. Serial No. 170,626. 10 Claims. (Cl. 137—160.)



1. A muffler of the class described comprising in combination a longitudinally extending tubular member, and a member providing an inclined diaphragm, the outer portion of which diaphragm approaches approximately to within two millimeters of the inner wall of the longitudinally extending tubular member but is spaced from said wall a sufficient distance to permit the flow of gases through the space between the longitudinally extending outer member and the diaphragm.

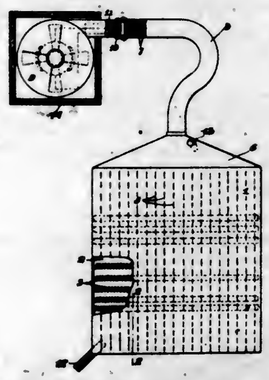
2. A muffler comprising a casing having a longitudinally extending tubular portion and an inclined diaphragm secured to said casing, which inclined diaphragm extends adjacent to the wall of the longitudinally extending tubular portion and makes an acute angle of approximately 15 degrees with the longitudinally extending axis of said tubular portion, the construction being such that there is provided between the casing and the diaphragm a long continuous narrow passageway of two millimeters or less in width through which flow the gases passing through the muffler.

3. A muffler of the class described comprising a longitudinally extending tubular member and a member providing an inclined diaphragm portion that approaches the wall of the longitudinally extending tubular member so that there is defined between said members a narrow passageway of two millimeters or less in width.

4. A muffler of the class described comprising a longitudinally extending tubular member and a member providing an inclined diaphragm portion that approaches the wall of the longitudinally extending tubular member so that there is defined between said members a narrow passageway of approximately two millimeters or less in width, the construction being such that the smallest area for the flow of gases through the muffler is the area between said inclined diaphragm and the wall of said tubular member.

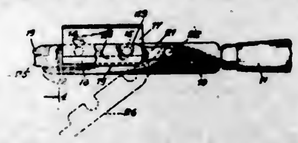
5. A muffler comprising in combination an outer member having therein an inclined diaphragm member for providing a relatively long narrow space through which gases flowing through the muffler must pass, a third member spaced from said diaphragm member, and means for supplying water to the space between said third member and said diaphragm member.

1,351,986. HOT APPLIANCE. HJALMAR V. BARCLAY, New York, N. Y. Filed May 22, 1918. Serial No. 236,022. 3 Claims. (Cl. 219—39.)



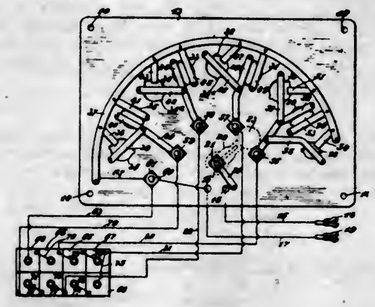
1. In a hot appliance, in combination, a hollow, flexible pad, having an inlet and an outlet, a blower, an electric heater, means for conveying air from said blower and heater to said inlet, and means for admitting regulated quantities of cool air to said inlet.

1,351,987. RAZOR-BLADE HOLDER. ANTHONY F. BARRO, New York, N. Y., assignor of one-half to Alphonse A. Dibblee, New York, N. Y. Filed Dec. 14, 1918. Serial No. 266,715. 1 Claim. (Cl. 30—25.)



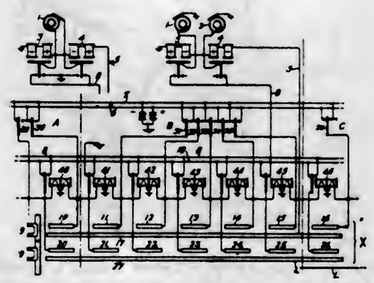
The combination, in a razor blade holder with a flat elongated plate having protruding spaced lugs on one of its faces and having a handle on one of its ends as well as having a shoulder on its second end, of a clamping element comprising a striplike body with a projecting arm pivoted to the flat plate adjacent to the handle so that the body and arm may be swung crosswise of the plate back and forth with relation to the lugs, said body having a lengthwise recess in opposition to the plate, and having spaced notches in one of its edges for reception of the lugs, and a hook on the end of the body opposite to its arm for detachably engaging the shoulder of the plate whereby the body and the plate will be releasably locked together.

1,351,988. ELECTRICAL TESTING DEVICE. CARL LOUIS BEGAS, Brooklyn, N. Y. Filed June 8, 1918. Serial No. 238,884. 5 Claims. (Cl. 175—183.)



1. An electrical testing device, comprising a board provided with holes for receiving lamp bulbs to be tested, contact strips mounted upon said board for engaging contact members carried by said lamp bulbs, a battery made up of a plurality of cells connected together, and conductors extending from said contact strips to different cells of said battery.

1,351,989. TELEGRAPH SYSTEM. JOHN H. BELL, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 25, 1919. Serial No. 340,449. 4 Claims. (Cl. 178—63.)

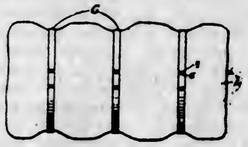


1. In a telegraph transmitting system, a set of pole changers, a source of alternating current, a distributer having two groups of commutator segments, a pair of polarized relays connected to said source of alternating current and selectively controlled by the coöperation of said pole changers and one of said groups of segments for sending positive or negative half cycles of said alternating current to line through said second group of segments.

1,351,990. MANUFACTURE OF ETHYLIDENE DIACETATE. MAURICE BEUDET, Lyon, France, assignor to Societe Chimique des Usines du Rhone, Anciennement Gilliard P. Monnet et Cartier, Paris, France. Filed Mar. 22, 1919. Serial No. 284,373. 2 Claims. (Cl. 23—24.)

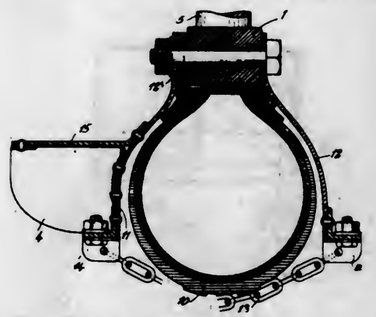
1. The process of purifying the crude products of the preparation of ethylidene diacetate obtained by the action of acetylene on acetic acid in presence of mercury compounds, consisting in decanting and diluting said crude products, agitating the solution with an organic solvent of ethylidene diacetate non miscible with water, washing and drying the solution, and separating the ethylidene diacetate by distillation.

1,351,991. CONNECTING MEANS FOR BALE-BANDS. EMANUEL V. BENJAMIN, New Orleans, La. Filed Aug. 15, 1916. Serial No. 115,081. 1 Claim. (Cl. 24—21.)



A bale-band having curved or arcuate overlapping end portions and connected together by rivets at said portions, said arcuate overlapping end portions being chamfered, toward the band, said rivets lying in the radius which is in the line of the longitudinal axis of the band and between the focus of the arc forming the extremities of the band and the periphery thereof.

1,351,992. WHEEL FOR POWER-DRIVEN WINTER-VEHICLES. KARL AUGUST BLYSTAD, Kongsvinger, Norway. Filed Dec. 5, 1919. Serial No. 342,799. 2 Claims. (Cl. 301—40.)



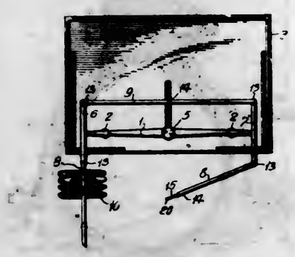
2. In a device of the kind described a supporting plate adapted to be secured to the side of a wheel felly and having a portion projecting outwardly of the periphery and offset laterally therefrom, and a traction plate consisting of an angle plate having its flanges disposed at right angles, one of said flanges being secured to the offset portion of the supporting plate and the other flange being substantially triangular in form with its apex toward the periphery of the wheel and projecting laterally away from said supporting plate and reinforcing flanges extending outwardly from the supporting plate above and below the traction plate.

1,351,993. TYPEWRITING-MACHINE. LEE S. BURRIDGE, deceased, late of New York, N. Y., by Francis O. Burridge, executor, New York, N. Y., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Original application filed Sept. 27, 1915, Serial No. 52,594. Divided and this application filed Dec. 3, 1917. Serial No. 205,109. 4 Claims. (Cl. 197—91.)



1. In a typewriting machine, in combination, a platen-carriage, letter-spacing mechanism therefor, including an escapement wheel and mechanism coöperating therewith to control its movements in normal letter-feeding direction, said wheel and controlling mechanism being so related as to permit a back-spacing rotation of said wheel in the reverse direction, and back-spacing mechanism for said wheel, comprising a back-spacing pawl, a movably mounted pawl-carrier therefor, means normally tending to move said pawl relatively to said carrier to a position such as to engage a tooth of said escapement wheel, a stop fixedly mounted on said carriage, an abutment on said pawl, normally held in engagement with said stop, and preventing movement of said pawl to its tooth-engaging relation, and means for moving said carrier so as to separate said abutment from said stop, to permit said pawl to be moved into tooth-engaging relation with said escapement wheel, and rotate said wheel in a reverse direction, to an extent such as to bring a different tooth of said escapement wheel into position to be engaged and held by said controlling mechanism.

1,351,994. DISPLAY-RACK. GEORGE F. COOPER, Detroit, Mich. Filed Feb. 13, 1918. Serial No. 216,982. 1 Claim. (Cl. 211—16.)



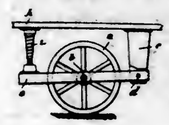
The combination of a cabinet having a base piece rotatable and bodily shiftable therein with an upright end post rigidly secured on each end of the base, a transverse end bar rigidly supported between its ends on the upper end of each post, upright sockets on the extremities of the end bars, and side rails connecting corresponding extremities of the end bars, each formed of a pair of tubular sections, one end of each being downturned and journaled in the socket of the end bar, whereby the section may be turned into alinement with the end bar, the free ends of the sections being detachably connectible in a flush joint to form a continuous side rail having a smooth unbroken exterior when they are turned into alinement with each other.

1,351,995. FIXED SEAT FOR USE IN CINEMAS, THEATERS, AND THE LIKE. PHILIP CORNISH, Leytonstone, England. Filed June 22, 1920. Serial No. 390,956. 4 Claims. (Cl. 155—130.)



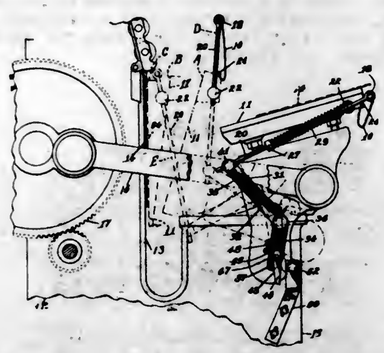
1. Seating arrangement for use in a cinema consisting of under frames adapted to be secured to the floor of the cinema and located at distances apart corresponding to a plurality of seats, vertically disposed members of approximately L-shape secured to said under frames, longitudinally disposed members secured to said vertically disposed members, and vertically disposed members of approximately L-shape secured to said longitudinally disposed members intermediate between the first mentioned approximately L-shaped members in positions corresponding to the ends of the separate seats.

1,351,996. MULTIPLE WHEEL FOR ROAD-VEHICLES. CAMILLO CORTE, Rome, Italy. Filed July 8, 1919. Serial No. 309,504. 2 Claims. (Cl. 280—124.)



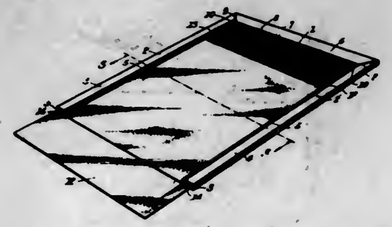
1. A vehicle wheel, comprising a plurality of rotatable elements arranged in alinement transversely of the vehicle and adapted to be spaced below the vehicle body, and resilient means for permitting independent vertical movement of said elements relative to the vehicle body.

1,351,997. GUARD FOR PRINTING-PRESSES. DAVID CURRY, New York, N. Y. Filed Apr. 26, 1919. Serial No. 292,818. 3 Claims. (Cl. 74—105.)



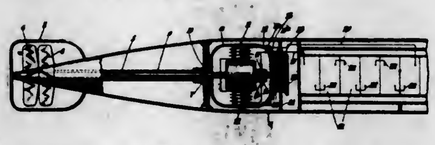
1. In a guard for a printing press having a vertically disposed type bed and having a platen operably movable toward and from the type bed, the combination with a frame slidably and pivotally mounted on the sides of the platen, of a flexible screen held to the frame and held to the platen for being adjusted upwardly and downwardly relative to the top of the platen, levers mounted on the platen for raising the frame, carrying pawls whereby the levers may be tripped near the closing movement of the platen, and springs for causing retracted adjustment of the frame and screen.

1,351,998. PHOTOGRAPHIC-FILM SHEATH. WILLIAM F. FOLMER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 26, 1919. Serial No. 340,862. 8 Claims. (Cl. 95—68.)



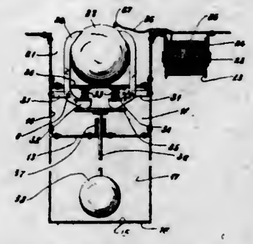
1. A sheath for photographic film consisting of a flat plate having at its edges flanges overhanging one surface thereof with the upper surfaces of the flanges parallel to the plate, means in connection with the flanges for holding the edges of film inserted in said sheath with a forward inclination, whereby the body of such a film will be held flat.

1,351,999. DRIVING MECHANISM. HARRY E. HEATH, Newark, N. J., assignor to Frederick Conlin, Elizabethport, N. J. Filed June 19, 1915. Serial No. 35,028. 1 Claim. (Cl. 172—36.)



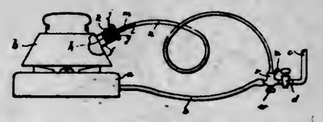
In combination, a motor armature and field winding, a rotatable shaft carrying one of said motor elements, a casing rotatably mounted on said shaft and carrying the other of said elements, hubs on said casing, a partition having a fixed bearing for one of said hubs, bevel gears mounted upon said casing and said shaft on opposite sides of said partition, and an intermediate gear carried by said partition and meshing with said first mentioned gears.

1,352,000. SUNKEN-SHIP INDICATOR. JOE HLAVATY, Jr., Wallis, Tex. Filed July 16, 1919. Serial No. 311,161. 2 Claims. (Cl. 9—9.)



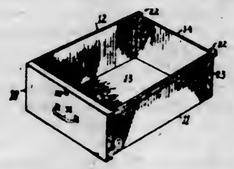
1. In a device of the class described, the combination with a freely rotatable drum, a cable wound thereon, and a float to which the free end of the cable is connected, of a casing in which said float is normally contained, said casing having a plurality of compartments, a pair of spring-impelled lever arms adapted to hold said float in confinement, a second float in said casing adapted to rise upon the entry of water into the lower of said compartments, and connections between said second float and said lever arms whereby the first float is released upon raising of the second float.

1,352,001. DEVICE FOR AUTOMATIC EXTINCTION OR DAMPENING OF THE FLAME IN GAS-COOKERS. ANDERS CHRISTIAN EMIL HOJGAARD, Copenhagen, Denmark. Filed Apr. 13, 1920. Serial No. 373,641. 9 Claims. (Cl. 126—351.)



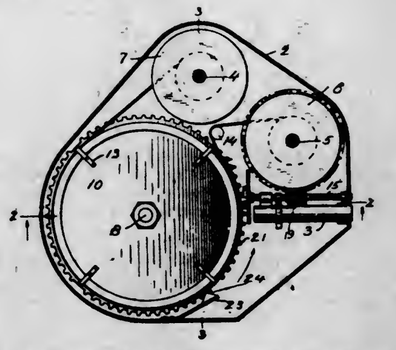
5. A gas supply controlling device, comprising in combination, a kettle having a spout, a flexible sleeve in communication at one end thereof with the gas supply and having at its opposite end a hood removably inserted into said spout, a flexible rod within said sleeve, means secured at one end of said rod for obstructing the passage of gas, and a spring-pressed piston secured to the opposite end of the rod and slidable within said hood.

1,352,002. KNOCKDOWN SHEET-METAL DRAWER. EMIL J. JONES, Jamestown, N. Y. Filed Apr. 26, 1920. Serial No. 376,623. 9 Claims. (Cl. 45—7.)



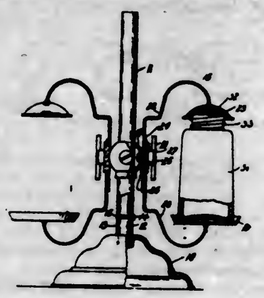
1. In a drawer, a front plate having inturned end and top and bottom flanges, spaced lugs on each of said end flanges having slots therein and spaced lugs on said bottom flange, drawer side plates and a bottom plate having similarly spaced slots to receive said lugs therethrough, a rear plate for the drawer head having locking lugs spaced to enter said slots in said end lugs to hold said part firmly in position, and a rear end plate for said drawer.

1,352,003. COMBINED MOTION-PICTURE CAMERA AND PROJECTOR. JOSEPH S. KENNARD, Jr., New York, N. Y. Filed Dec. 15, 1919. Serial No. 345,018. 2 Claims. (Cl. 88—17.)



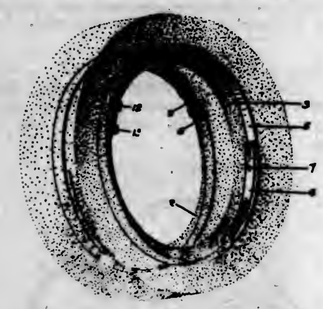
1. In a picture-taking and projecting machine, the combination of a casing provided with a lens, means for supporting a pair of film spools, means for rotating one of said spools, a member mounted for rotation in said casing, a transparent annulus secured to said member in line with the lens and adapted to support a film during its passage from one spool to the other, and means for causing intermittent rotation of said member during the rotation of the spool.

1,352,004. CASTER. FRED KESSEL, New York, N. Y. Original application filed July 11, 1918, Serial No. 244,441. Divided and this application filed Dec. 30, 1918. Serial No. 268,806. 1 Claim. (Cl. 65—5.)



A device of the character described, comprising a base, a standard rising therefrom made of two sections, one of said sections being fixed to said base and the other one being rotatable on said fixed section, a condiment holder support upon said rotatable standard section including two oppositely extending resilient brackets, one of which is provided with a longitudinal slot and the other one with a hole, a clip drawn over the meeting ends of said brackets provided with an aperture in alinement with said hole, a clamping screw passing through said hole, slot and aperture into said rotatable standard section, a base carried by one of said brackets, and a cover fixed in alinement with said second-mentioned base to the other one of said brackets.

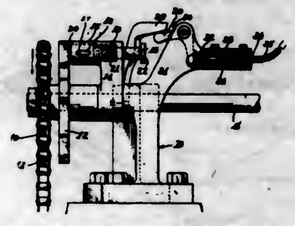
1,352,005. GRINDING-WHEEL-BALANCING DEVICE. THURE LARSSON, Worcester, Mass., assignor to Norton Company, a Corporation of Massachusetts. Filed Feb. 9, 1918. Serial No. 216,168. 11 Claims. (Cl. 74—6.)



6. In combination, an unbalanced grinding wheel having a peripheral surface and a balancing ring circumferentially movable to any position on said surface and adapted to clamp thereagainst for balancing the wheel.

1,352,006. CONTROLLING MEANS. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 26, 1916. Serial No. 116,958. 3 Claims. (Cl. 74—46.)

1. In a device of the character described, the combination of a support; a bearing on said support; a shaft rotatable in said bearing; a driving means loosely mounted on said shaft and provided with projections; a lever fixed on said shaft; a locking member movably carried on said lever and yieldably pressed into the path of said projections; a cam fulcrumed on said support and yieldably moved into the path of said member and adapted on the rotation of said lever to withdraw the locking member out of the path of movement of said projections; a bell crank freely movable and adapted to move said cam from the path of said member; a control key; a flexible connection connected to said control key and operable to actu-



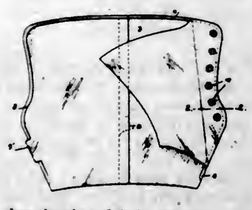
ate said bell crank, and a spring for yieldably retaining said control key in inactive position and for withdrawing said control key and the thereto connected flexible connection out of bell crank actuating position.

1,352,007. HEEL-BREASTING MACHINE. ROBERT E. LAUGHTON and PHILIP E. BARNES, Haverhill, Mass., assignors to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Oct. 17, 1918. Serial No. 258,492. 16 Claims. (Cl. 12—47.)



1. In a heel breasting machine, in combination, a work support, a knife reciprocable toward and from said support, an actuator for said knife, means normally operative to connect said knife to its actuator, and a work-contacting device supported independently of said knife and actuator and constructed and arranged to disconnect said connecting means.

1,352,008. RUBBER SHOE AND METHOD OF MAKING THE SAME. GEORGE L. LAWRENCE, Jr., Melrose, Mass., assignor to Boston Rubber Shoe Company, a Corporation of Massachusetts. Filed Mar. 26, 1920. Serial No. 369,044. 3 Claims. (Cl. 36—4.)



2. A rubber shoe having fabric quarters provided with a coating of rubber on their outer faces and vulcanized at their edges to the tongue and vamp, said quarters having

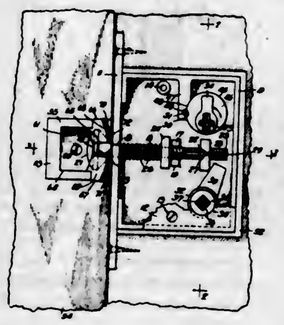
the fabric and rubber along their front edges and tops folded upon themselves to bring the outer coating of rubber into contact with the edge portions of the tongue and outer portions of the vamp along the joints of said edge portions, to provide a good bonding material at said joints between said members.

1,352,009. WRENCH. VICTOR A. LILLQUIST, Superior, Wis. Filed Nov. 17, 1919. Serial No. 338,602. 2 Claims. (Cl. 81—136.)



2. The combination with a wrench of the character described including a main shank with a fixed working jaw at one end and an L-shaped termination at the other end, a slidable shank carrying a working jaw for cooperative action with the other working jaw, and having teeth formed in the lower end thereof, a two part handle, and an expansive spiral spring intermediate of the end of the slidable shank and the L-shaped termination of the main shank, of a pivoted toothed lever intermediate of the two parts of the handle, engaging the toothed portion of the slidable shank for holding it in any predetermined position and an expansive spiral spring intermediate of the end of the first mentioned spiral spring and the L-shaped termination of the main shank, engaging the operative end of the lever and holding it normally extended adjacent said L-shaped extension.

1,352,010. DOOR-LOCK. WILLIAM A. LURIE, New Orleans, La. Filed Dec. 12, 1919. Serial No. 344,366. 5 Claims. (Cl. 70—29.)



4. In door locking mechanism, the combination of a lock frame secured to the door, a lock bolt extending through said frame and having a locking head at its outer end, a spring tending to shift said bolt inwardly, a lock barrel extended into said frame from the outside of the door, a wall in said frame adjacent said lock barrel having a pocket for receiving said barrel, a screw threading partly into said wall and said barrel for preventing rotation of said barrel, a key cylinder rotatable in said barrel and having an arm at its inner end within said frame, and an adjustable abutment on said bolt with which said tongue coöperates to shift said bolt outwardly.

1,352,011. SAFETY-RAZOR-BLADE HOLDER. FRANK MCEOWN, New York, N. Y. Filed Nov. 22, 1919. Serial No. 339,882. 5 Claims. (Cl. 30—25.)

2. A safety razor blade holder comprising a pair of relatively distended blade clamping members, and a slip cap normally engaging said members at the outer ends thereof when in clamped or distended position and



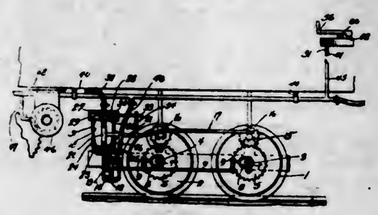
means on said members and said cap to prevent accidental removal of the cap.

1,352,012. TOOL-HANDLE. WALTER MCKENZIE, Tulsa, Okla. Filed May 25, 1918. Serial No. 236,571. 1 Claim. (Cl. 145—61.)



A handle comprising an annular series of wires intertwisted into a coil formation of smaller diameter intermediate of its length, the wires at the ends of the coil being continued straight and parallel with each other.

1,352,013. COMPRESSED-AIR PUMP. HENRY MANDELBAUM, Brooklyn, N. Y. Filed Apr. 18, 1919. Serial No. 291,117. 2 Claims. (Cl. 230—27.)



1. An air compressor including a reciprocatory piston, a piston rod attached to said piston, means for reciprocating said piston, a valve casing mounted upon said air compressor, a slide valve situated within said casing, a valve rod extending from said valve, an arm attached to said piston rod and having a slot adapted to receive the valve rod, a block situated within said slot, and means provided for forcing said block in frictional engagement with said valve rod.

1,352,014. PROCESS OF DYEING RAW SILK. EUGENE L. MAUPAI, New York, N. Y. Filed June 14, 1920. Serial No. 388,811. 3 Claims. (Cl. 8—5.)

1. The process of treating and dyeing grege silk, which consists in first hardening the silk threads with a metallic salt, thereupon washing the silk, and then dyeing the same with vat colors.

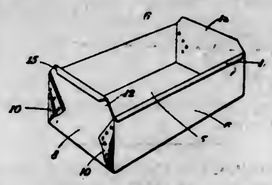
1,352,015. LIQUID POLISH. ARSENIO FERRER MENDEZ, Camajuani, Cuba. Filed Dec. 6, 1919. Serial No. 343,041. 3 Claims. (Cl. 134—24.)

1. As a new article of manufacture a liquid comprising a drying oil, alcohol, banana spirit, camphor and gum-lac.

1,352,016. BOX. EDWIN S. MIX, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 25, 1919. Serial No. 279,075. 1 Claim. (Cl. 220—97.)

A box formed of an integral blank of sheet-material bent upwardly to produce sides and ends; the ends projecting upwardly beyond the sides; and the surplus material at the corners being bent outwardly, doubled in the middle, and folded and secured against the ends of the

box, with a portion of said material bulging outwardly from the ends so as to provide abutments which coöperate



with the upwardly-projecting end-portions of a similar box when the boxes are stacked.

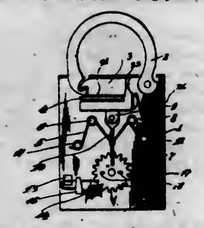
1,352,017. MULTIPLATE DRIVE-CHAIN. FRANK L. MORSE, Ithaca, N. Y., assignor to Morse Chain Company, Ithaca, N. Y., a Corporation of New York. Filed Sept. 8, 1917. Serial No. 190,283. 6 Claims. (Cl. 74—32.)



1. A multiplate drive chain having links comprising a plurality of plates interspersed with the plates of adjacent links, and spring means for exerting frictional resistance to the turning movement between adjacent links.

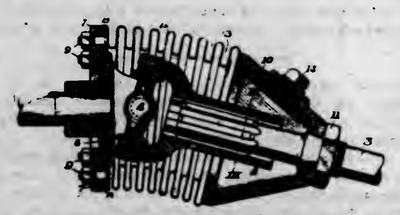
3. A multiplate drive chain having pintles and links comprising a plurality of plates interspersed upon the pintles with the plates of adjacent links, and a spring link plate inserted between the plates of certain of the links for pressing the same laterally.

1,352,018. LOCK. STANLEY MURASKI, Waterbury, Conn. Filed Sept. 18, 1919. Serial No. 324,345. 2 Claims. (Cl. 70—105.)



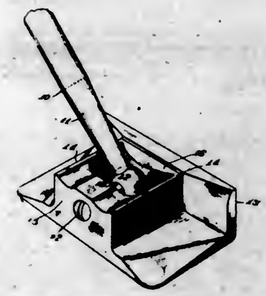
2. A lock comprising a shackle, a member slidable to engage said shackle, a finger pivotally suspended from said slidable member, springs having their tips contacting with said finger at mutually opposite sides, a disk having bosses on the surface thereof, said bosses adapted to engage said finger.

1,352,019. CASING FOR SHAFT-JOINTS. GEORGE F. MURPHY, Pittsburgh, Pa. Filed Oct. 29, 1918. Serial No. 260,083. 2 Claims. (Cl. 64—91.)



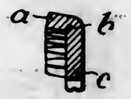
1. The combination with two shaft members connected by a universal joint, and one of said members also having a longitudinal slip-joint therein, of an oil-tight flexible casing connected to said members to rotate therewith and entirely surrounding and inclosing said joint, together with means whereby lubricant may be introduced into said casing, substantially as described.

1,352,020. GOLF-CLUB. ANDREW P. OLSON, Chicago, Ill. Filed Apr. 23, 1919, Serial No. 292,203. Renewed June 12, 1920. Serial No. 388,670. 3 Claims. (Cl. 46—4.)



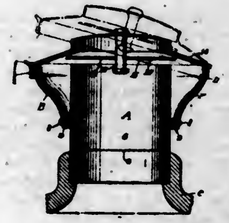
1. In a golf-club, a shaft, a putter-head having a playing face and a horizontal sole, a ball and socket joint between the shaft and top of the head to allow the free end of the shaft to move above the head in all directions about its pivotal point, and a pressure-releasing holding device to normally retain the shaft in fixed position.

1,352,021. MANUFACTURE OF TOOTHED BEVEL-GEAR WHEELS OR CROWN-WHEELS. OTTO R. OPPERMAN, London, England. Filed Dec. 29, 1919. Serial No. 348,246. 1 Claim. (Cl. 29—159.)



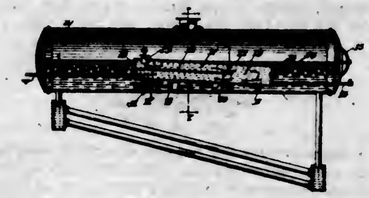
The improved method of manufacturing a toothed bevel gear or a crown wheel consisting in cutting the gear in the form of a spur-wheel, forming an annular groove in one side face of the wheel at the roots of the teeth to facilitate the bending over of the toothed portion and bending the teeth over at the required angle in the direction of the groove to form bevel or crown teeth.

1,352,022. BREATHER FOR GAS-ENGINES. ANTONIO PAJALIC, Dearborn, Mich. Filed Sept. 29, 1919. Serial No. 327,030. 5 Claims. (Cl. 121—194.)



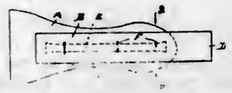
1. A breather for gas engines comprising an inner cylindrical tube open at both ends, having its lower open end communicating with the crank case and its upper open end constituting an outlet, an outer casing having its lower portion spaced from said inner casing, and supported thereon, and curving upwardly and away from said inner casing, and having a top section extending entirely across the upper open end of said inner section, a stem vertically depending from said upper section, and a disk valve mounted for vertical movement on said stem and adapted to normally close the upper open end of said inner casing, and to be operated by the pressure in said crank case to uncover said upper end, said disk valve being provided with a circumferential series of ports.

1,352,023. FEED-WATER HEATER AND PURIFIER. THOMAS T. PARKER, Brooklyn, N. Y. Filed Oct. 4, 1919. Serial No. 328,464. 2 Claims. (Cl. 122—428.)



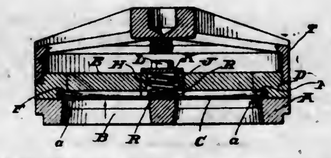
1. In a feed-water heating and purifying structure for steam boilers, the combination with a steam and water drum, of an elongated casing having closed ends and arranged within and longitudinally of said drum, a horizontal partition within said casing extending from one of said ends toward and terminating short of the other end, to provide upper and lower longitudinal water passes, and also a common junction chamber therefor at one end of the casing, a feed-water supply inlet for the lower pass, a discharge outlet for the upper pass, said inlet and outlet being at the end of the casing remote from the junction chamber, and depending baffles located within said passes in proximity to the junction chamber.

1,352,024. SHANK-STIFFENER. JOSEPH E. PECKHAM, Newton Highlands, Mass. Filed Mar. 21, 1918. Serial No. 223,819. 3 Claims. (Cl. 36—76.)



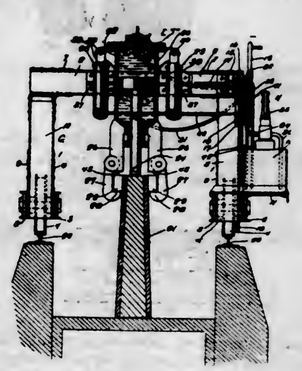
1. A shank stiffener comprising a body portion, a resiliently-stiff reinforcing element seated on said body portion and scored to provide an anchoring groove for a staple, and a staple having its legs embedded in the body portion at either longitudinal edge of the reinforcing element and having its cross-bar lodged in said groove of the reinforcing element and securing said element against relative movement on said body portion.

1,352,025. PLATE-VALVE. WILLIAM PRELLWITZ, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 2, 1920. Serial No. 370,741. 8 Claims. (Cl. 277—46.)



7. A valve comprising a valve seat having a plurality of passage ways, plate valves adapted to be seated on the valve seat over said passage ways, a guard mounted on the valve seat over said valve plates, apertures in said guard passing through the same from face to face and adapted to lie opposite the valve plates, springs removably inserted in said apertures from the outside, and a guard plate removably connected to said guard for holding the springs in the apertures over the valve plates and applying compression to said springs.

1,352,026. INGOT-STRIPPER. THORNTON W. PRICE, New York, N. Y. Filed Nov. 5, 1918. Serial No. 261,256. 12 Claims. (Cl. 22—95.)



3. A device of the class described comprising a stripper and a carriage therefor, the stripper including parts adapted to engage the mold and the ingot and being movable in opposite directions for stripping the mold from the ingot, and hydraulically operable means engaging between the carriage and said parts operable to adjust said parts relative to the carriage.

1,352,027. GARMENT. HENRY L. RISSMAN, Chicago, Ill. Filed Feb. 6, 1919. Serial No. 275,323. 1 Claim. (Cl. 2—62.)



A coat having a collar and lapels, flaps forming continuations of and extending downwardly from said collar along the shoulders, said flaps being hidden beneath said lapels when the coat collar is down, said flaps being adapted to be crossed in front of the neck and to be entirely exposed to view when the coat is buttoned and the collar partly raised, and buttons on the coat for receiving the flaps and holding them in crossed position.

1,352,028. PHOTOGRAPHIC OBJECTIVE. FRANK E. ROSS, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 17, 1919. Serial No. 283,198. 12 Claims. (Cl. 88—57.)

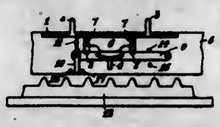
1. An objective consisting of two spaced components, one of which is positive and comprises two contacting

lenses and the other of which is negative and comprises three contacting lenses, the sum of the thicknesses of the



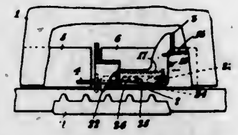
two components being at least one-eighth of the equivalent focal length of the objective.

1,352,029. CALCULATING-MACHINE. KARL VIKTOR RUDIN, Stockholm, Sweden. Filed Apr. 2, 1919. Serial No. 287,036. 2 Claims. (Cl. 235—63.)



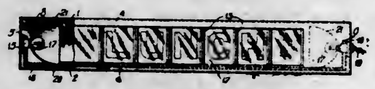
1. Calculating machine carriage shifting mechanism, comprising a finger bar arranged for longitudinal and for vertical movement, a shaft, a flap under the finger bar and having lateral arms pivotally mounted on the shaft, a lever bar pivotally mounted at one end, arranged under the flap and for vertical angular movement in a plane at right angles to that of the flap, and a spring-held tooth pivotally mounted at the free end of the lever bar, in combination with a rack and a locking lever, said locking lever being at right angles to and under the said lever bar.

1,352,030. STEP-BY-STEP MECHANISM IN CALCULATING-MACHINES. KARL VIKTOR RUDIN, Stockholm, Sweden. Filed Apr. 2, 1919. Serial No. 287,037. 2 Claims. (Cl. 235—63.)



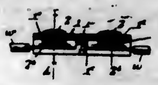
1. In a step-by-step mechanism for calculating machines of the class described, in combination with a toothed bar, a carriage and a locking element pivotally mounted thereon, a pair of members to actuate said locking element, said members being pivotally mounted, one of said members being slidably engaged with the locking element, and the other member having a tooth for engagement with said toothed bar and being slidably mounted on said pivot.

1,352,031. ILLUMINATED SIGN. GEORGE H. SCHAFFNER, Detroit, Mich. Filed Dec. 8, 1916. Serial No. 135,770. 1 Claim. (Cl. 40—132.)



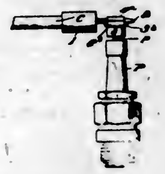
An illuminated sign comprising a casing having a wall provided with a sight opening approximately the length of said casing, an angle support carried by the casing wall at the lower edge of the sight opening and extending throughout the length of said opening, an angle retaining member depending from the top of said casing adjacent the sight opening, said angle support and said retaining member having vertical flanges cooperating with the casing wall adjacent said angle support and said retaining member in providing an exhibitor holder, inter-exchangeable detachably held in the exhibitor holder of the casing at the sight opening thereof, lamp holders on the inner sides of the end walls of said casing, reflectors in the ends of said casing supported from the bottom thereof and said lamp holders, said reflectors confronting each other, and lamps in said holders and reflectors with electrical connections in the bottom of said casing connecting said lamps.

1,352,032. ELECTRICAL CONNECTOR. HOWARD B. SHERMAN, Battle Creek, Mich. Filed Jan. 22, 1919. Serial No. 272,472. 3 Claims. (Cl. 287—78.)



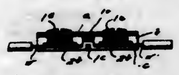
1. A connector for the purpose described, comprising a tubular body portion having screw threaded openings in its top and recesses in its inner side walls adjacent and of greater diameter than these openings, and a partition intermediate the said openings; screws engaging said openings and provided with flanges on their inner ends engaging said recesses to prevent withdrawal of the screws.

1,352,033. ELECTRICAL CONNECTION FOR SPARK-PLUGS, &c. HOWARD B. SHERMAN and FRANK D. MALTBY, Battle Creek, Mich.; said Maltby assignor to said Sherman. Filed Jan. 22, 1919. Serial No. 272,487. 5 Claims. (Cl. 173—259.)



3. In an electrical connection of the type specified, a cap adapted to be attached to a binding post and make electrical contact therewith; and a spring retainer plate extending across the upper end of the cap and having a central loop adapted to permit a terminal to be inserted between said plate and cap and to bind the terminal to the cap when so inserted, substantially as described.

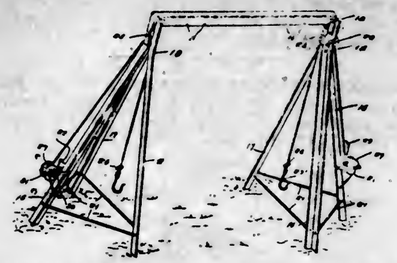
1,352,034. PROCESS OF MAKING CONNECTORS. HOWARD B. SHERMAN, Battle Creek, Mich. Filed May 21, 1919, Serial No. 298,778. Renewed June 28, 1920. Serial No. 392,519. 8 Claims. (Cl. 29—156.)



1. In the process of making a tubular connector provided with screws; forming a blank provided with suitable threaded openings; engaging screws with the said threaded openings; and then completing the folding of the blank into tubular form to permanently retain the screws in the connector.

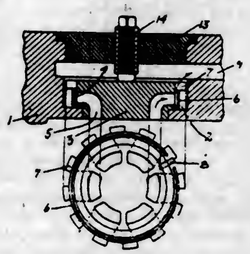
1,352,035. FARM-DERRICK. RAYMOND A. SMITH, Kinsley, Kans. Filed Mar. 10, 1920. Serial No. 364,808. 2 Claims. (Cl. 254—145.)

1. In a device of the class described, a plurality of supporting structures, a winding device carried by each of said structures, a cable connected with each winding device, a transverse element mounted on the upper end of each structure, a bar extending between the upper ends of the respective structures, said bar being provided with a plurality of slots for engaging the transverse elements



and permitting said structures to be spaced apart at variable distances and to be braced at their upper ends against lateral movement.

1,352,036. VALVE. WILLIAM A. SMITH, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 29, 1918. Serial No. 231,374. 7 Claims. (Cl. 251—119.)



1. In a valve for compressors, a valve body seated in a compressor wall, an annular seat on said valve body having a plurality of independent ports extending therethrough to a lateral face thereof, a resilient ring surrounding said seat and covering said ports, said ring being adapted to expand away from said seat to open said valve and means providing an annular passage for limiting the expansive movement of the valve.

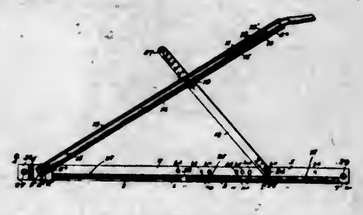
1,352,037. FILM-RETOUCHING HOLDER. DEWEY E. STILES, Los Angeles, Calif. Filed July 21, 1919. Serial No. 312,308. 4 Claims. (Cl. 40—158.)



1. In a film-retouching holder comprising a frame, a light transmitting panel in the frame, and a slide having an opening and adapted to hold a film in place on the light transmitting panel, there being no obstruction to the passage of light rays through the frame.

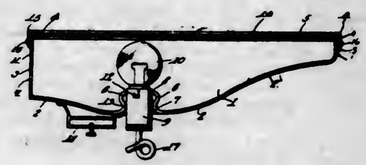
1,352,038. MANOMETER. ERNEST SZEKELY, Detroit, Mich., assignor to American Blower Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 7, 1918. Serial No. 221,008. 9 Claims. (Cl. 73—31.)

1. A device of the class described including a supporting base, a tube carrying frame pivotally connected with the base and adapted to be positioned at different inclinations, an inclined support or brace connected with the base and with the tube carrying frame, the connection of the inclined support or brace with one of said parts being adjustable whereby the angle of inclination of the tube carrying frame may be changed and the sensitiveness of the device varied, and indicating marks on that one of the parts to which the brace is adjustably connected said indicating marks denoting adjustments of the inclined support or brace member for obtaining certain degrees of sensitiveness of the device.



9. A device of the class described including a supporting base, a tube carrying frame connected with the base to be positioned at different angles of inclination, means for maintaining the tube carrying frame in different positions of adjustment, a U tube supported in the frame, a scale plate secured to the U tube between the legs thereof at one side of the tube, and means for adjustably securing the scale plate to the tube comprising a plate disposed opposite the scale plate at the opposite face of the tube and clamp screws connecting the plates together.

1,352,039. AUTOMOBILE SAFETY-SIGNAL. FRANK TOKANOS, Long Branch, N. J. Filed Jan. 3, 1920. Serial No. 349,278. 1 Claim. (Cl. 40—132.)

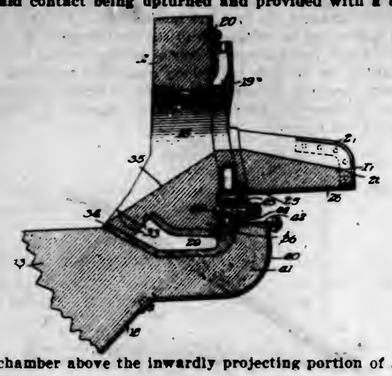


A device of the character described comprising a hollow casing provided with a plurality of air inlets and conforming to the shape of a human hand, and having its forward part formed open, a plurality of spring clamps struck from the metal forming the rear of said casing and projecting therein and adapted to support an electric lamp socket, a transparent panel secured to the forward part of the casing and covering the above mentioned opening, said panel being in the shape of a human hand, an angle plate secured to the casing and retaining the panel, and a clamp secured to the casing and adapted to secure the device to a vehicle.

1,352,040. ELECTRIC FURNACE. FREDERICK VON SCHLEGELL, Evanston, and WILLIAM B. LEWIS, Chicago, Ill. Filed Apr. 4, 1919. Serial No. 287,588. 27 Claims. (Cl. 204—64.)

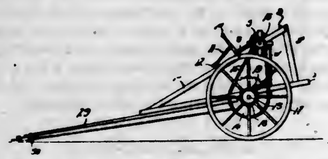
1. The combination with an electric furnace having a melting chamber and a tap hole, of an electrical contact for said furnace projecting through the wall thereof, be-

low said tap hole into said melting chamber, the outer end of said contact being upturned and provided with a cool-



ing chamber above the inwardly projecting portion of said contact.

1,352,041. REEL. CHARLES E. WALKER, Grand Rapids, Mich. Filed June 21, 1917, Serial No. 176,238. Renewed Mar. 17, 1920. Serial No. 366,690. 1 Claim. (Cl. 242—92.)



In a device of the class described, the combination of a carriage frame formed of angle bars which are L-shaped in cross section, converging end members fixed to said angle bars and extending upwardly therefrom adjacent one end of said frame, inclined angle bars connected to the remaining end of said frame and having their upper ends connected to the upper ends of the converging end members, thus forming a superstructure, a reel carried upon said inclined bars, means for rotating said reel, whereby the strain imparted to the support by said reel will tend to slightly collapse the superstructure for holding the same against expanding strain, the lower ends of said converging end members and said inclined bars engaging the carriage frame at the angles of the bars whereby the superstructure will be held against displacement.

1,352,042. EDUCATIONAL CHART. FRED W. WALKER, Hulbert, Okla. Filed Sept. 5, 1917. Serial No. 189,752. 15 Claims. (Cl. 35—9.)



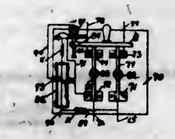
1. An educational chart including a frame having longitudinal guides arranged in spaced relation, chart belts carried by the frame and movable along the guides, longitudinal rollers mounted in the frame at the spaces between the guides and adapted for carrying charts and for exposing the same at the said spaces to coöperate with the chart belts, and means connected with the rollers and with the chart belts for moving the same simultaneously and independently.

1,352,043. FUEL-SAVING DEVICE. EDWARD ERNEST WARD, Chicago, Ill. Filed Apr. 29, 1918, Serial No. 231,500. Renewed July 20, 1920. Serial No. 397,753. 1 Claim. (Cl. 110—49.)



In combination with a furnace, and cold air intake pipe thereof, a flue cap chamber, a hood positioned within the flue cap chamber of the furnace, a casing outside of the furnace, a pipe providing communication between the hood and casing, a rotary fan within the casing, a relatively short pipe providing communication between the casing and cold air pipe, said short pipe having an enlarged end portion, a mixing fan mounted in the enlarged portion, the blades thereof extending into the cold air pipe, a curved deflector plate secured to the inner wall of the relatively short pipe, the lower end of the deflector plate terminating at a point adjacent the path of travel of the mixing fan, for directing a blast of air onto the blades thereof.

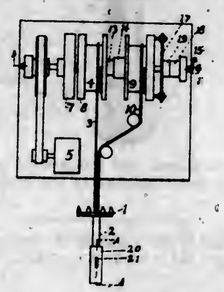
1,352,044. ELECTRIC-CIRCUIT PROTECTOR. SYDNEY N. BARUCH, San Francisco, Calif., assignor to Baruch Electric Controller Corporation, San Francisco, Calif., a Corporation of California. Filed Apr. 12, 1915. Serial No. 20,756. 4 Claims. (Cl. 200—122.)



4. A device for releasably holding a switch in an electric circuit in closed position, comprising means for holding the switch closed, a flexible conductor in the circuit adapted to be heated by current therein, and means for flexing the conductor in one direction operative upon a predetermined flexure of said conductor for releasing said holding means.

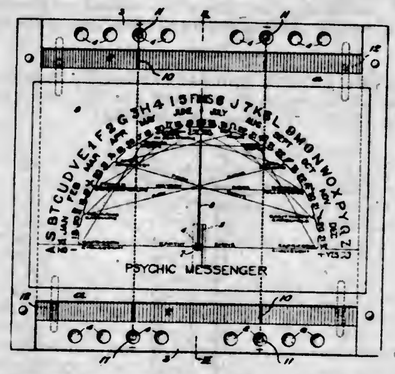
1,352,045. MECHANISM FOR DRIVING TOOLS. AARON E. BERGEY, Bazetta township, Trumbull county, Ohio. Filed Jan. 22, 1919. Serial No. 272,532. 10 Claims. (Cl. 254—135.)

1. In a mechanism for driving tools, a main friction clutch driving member, a control friction clutch driving member running in unison therewith, a main friction clutch driven member adapted to be driven by the said main friction clutch driving member, a control friction clutch driven member adapted to be driven by the said control friction clutch driving member and revolving normally in unison with the said main friction clutch driven member, and a clutch thrust mechanism connecting the two said friction clutch driven members, said clutch thrust mechanism being provided with a roller bearing



through which the clutch pressure is transmitted, said clutch thrust mechanism being constructed so that when the two said friction clutch driven members are turned out of unison in one direction the said main clutch members become engaged and when the said friction clutch driven members are turned out of unison in the opposite direction the said main clutch members become disengaged, substantially as described.

1,352,046. MESSAGE-INTERPRETING DEVICE. FREDERICK H. BLACK, Pittsburgh, Pa. Filed Mar. 5, 1920. Serial No. 363,495. 7 Claims. (Cl. 46—41.)



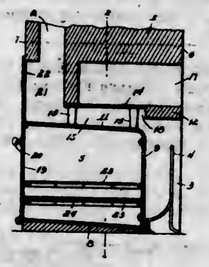
1. A message interpreting device consisting of a base having a bridge portion and an intervening slidable board member, a dial on the face of the bridge portion, a pointer having a stem pivoted in the base and bridge portion, and actuating gearing therefor between the slidable board member and the pointer stem.

1,352,047. TONGUE-BALL. RUDOLF W. BOJE, Jr., Buffalo, N. Y. Filed Jan. 28, 1919. Serial No. 273,553. 1 Claim. (Cl. 46—40.)



A toy comprising an elastic hollow body of substantially spherical shape representing the head of a human being and having an elliptical shaped opening to provide a mouth, a projection formed on said body and disposed above the opening and shaped to form a nose, said body having eyes applied thereon and disposed on each side of the nose, and a tapered elastic member having one end closed and its open end secured to the interior of the body about the opening, so that said member may be projected and retracted in the body by squeezing and releasing the pressure on said body.

1,352,048. FIREPLACE HEATER AND COOKER. THOMAS CARTER, Belton, S. C. Filed May 3, 1918. Serial No. 232,333. 3 Claims. (Cl. 126—137.)



3. In a device of the class described, a wall having an opening therein extending from one of its faces to another thereof and an oven chamber above the opening, the said wall having a flue therein and communicating with said opening, a casing in said opening and having one of its walls arranged flush with one face of said wall and another of its walls spaced inwardly from the other face of said wall, a plate closing the bottom of said oven chamber and forming a flame passage above said casing and in communication with said flue, and a grate on one wall of said casing.

1,352,049. VAPORIZER FOR CARBURETERS. GEORGE B. CASS, Ottawa, Ohio. Filed Jan. 28, 1919, Serial No. 273,602. Renewed Jan. 13, 1920. Serial No. 351,251. 3 Claims. (Cl. 219—38.)

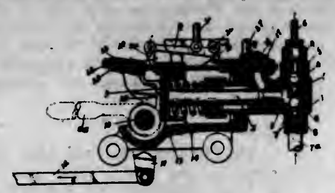


1. In a carbureter, a delivery tube having a lateral opening, an insolating bushing in said lateral opening, an L-shaped rod having one leg threaded and extending through the bushing, the remaining end extending longitudinally within the delivery tube, and a thermo-electric coil surrounding the last-mentioned end of the rod, one end of the coil being connected to the free extremity of the rod and the remaining end being grounded on the wall of the tube.

1,352,050. GOVERNING FUEL-PUMP. ADOLPH F. CHRISTMAS, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 28, 1918. Serial No. 256,129. 4 Claims. (Cl. 123—140.)

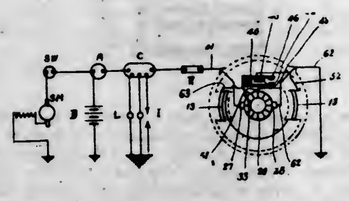
1. In a fuel pump for internal combustion engines, a plunger adapted to reciprocate within a cylinder to force motive fluid from a source of supply into a combustion chamber, means for actuating said plunger, a by-pass valve normally held closed, a device operatively connected to the plunger actuating means for opening the by-pass

valve, and means controlled by a governor for controlling the opening of said by-pass valve at variable points toward



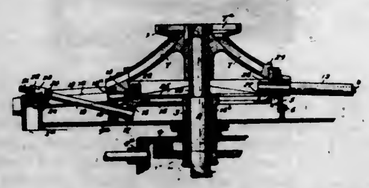
the end of the stroke of the plunger to vary the amount of fuel admitted to the combustion chamber.

1,352,051. REGULATING DEVICE FOR DYNAMO-ELECTRIC MACHINES. OLIVER F. CONKLIN, Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind., a Corporation of Indiana. Filed Dec. 19, 1916. Serial No. 137,751. 8 Claims. (Cl. 171—229.)



3. In a system of regulation for dynamo-electric-machines, the combination with a variable speed dynamo; of means for regulating the output thereof in accordance with speed to obtain a predetermined characteristic based on the relation of speed and output; and separate temperature controlled means for modifying the operation of said regulating means whereby a different characteristic will be obtained.

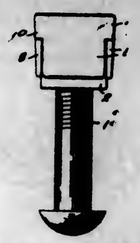
1,352,052. ROLL-ADJUSTING APPARATUS. GEORGE F. CRIPPEN, Ypsilanti, Mich., assignor to The Crippen Manufacturing Company, Mount Pleasant, Mich., a Corporation of Michigan. Filed May 9, 1918. Serial No. 233,519. 31 Claims. (Cl. 130—18.)



1. In an apparatus of the character described, the combination of an annular series of rotatable rolls arranged in pairs, one of the rolls of each pair being laterally adjustable relative to the other, and means arranged within the space at the inner ends of the series of rolls, forming driving means common to all of the adjustable rolls for simultaneously adjusting the same.

1,352,053. NUT-LOCK. JOHN W. CURTIN, Worcester, Mass. Filed Oct. 2, 1919. Serial No. 327,881. 1 Claim. (Cl. 151—29.)

In a device for locking a nut of ordinary construction on a bolt, the combination of a threaded bolt, having a blank end, and a locking cap device comprising a head having a central channel of suitable size to seat over the blank end of the bolt said channel having projecting inwardly tapering ribs adapted to cut grooves in a locking device on the blank end of the bolt, and side plates integral



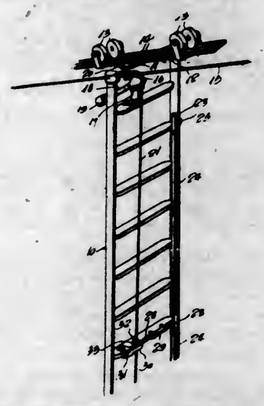
with the aforesaid head and adapted to engage over the sides of the nut and lock same in any position desired on the bolt.

1,352,054. FISH-BAIT. HENRY S. DILLS, Garrett, Ind. Filed Dec. 18, 1915. Serial No. 67,533. 3 Claims. (Cl. 43—40.)



1. In a fish-bait, the combination with the forward end of a bait body, of means having a part thereof attached to the bait body and further having an upright transversely extending wall adapted to form a resistance to the water and cause the body to wriggle or swing laterally and having a longitudinally inclined portion integral with the wall and projecting forwardly therefrom, the longitudinal axis of the inclined portion being in the vertical plane of the longitudinal axis of the body.

1,352,055. LADDER AND SAFETY-LOCK. ANTHONY DI SALVATORE, Scotia, N. Y. Filed Apr. 19, 1920. Serial No. 375,044. 7 Claims. (Cl. 228—52.)

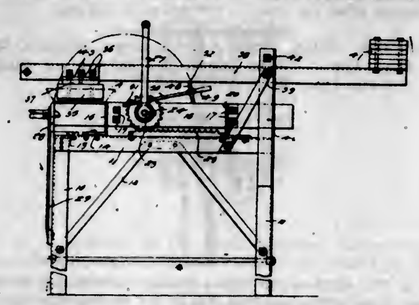


7. A traveling ladder, a lock for the same, an actuating line for the lock, means holding the line against movement to release the lock when the line is in its normal position, and means for moving the line out of its normal position for movement to release the lock.

1,352,056. BRICK-MACHINE. JAMES CARREL DOBBINS, Rock Hill, S. C. Filed Oct. 29, 1919. Serial No. 334,216. 5 Claims. (Cl. 25—41.)

1. A brick machine of the character described, comprising a main frame including a horizontally disposed upper portion having a forward mold board support, an

upright slotted wall along the rear of said support forming the rear mold wall, a front mold wall having a pivoted connection with the main frame and shiftable with respect thereto into and out of position opposing the rear mold wall, a series of lengthwise shiftable partitions rigidly connected to one another and the forward ends



of which are movably disposed in the slots of the rear mold wall, a mold board or pallet removably disposed between the front and rear mold walls, rigid connections between the said partitions, and manually actuated means for shifting the partitions forwardly and rearwardly on the main frame, as described.

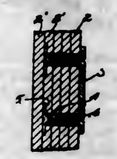
1,352,057. TREE-BARKING TOOL. ETHEL EVANS, Wenatchee, Wash. Filed Oct. 8, 1919. Serial No. 329,303. 6 Claims. (Cl. 145—1.)



1. In a tool as specified, the combination of a handle, a blade carried at one end of said handle and provided with a flat portion upon one side of the handle terminating in a straight sharpened edge, a portion of said blade extending upon the opposite side of the handle from said flat portion being curved and presenting outwardly a convexed surface.

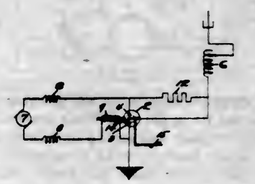
2. In a tool as specified, the combination of a handle, a blade carried at one end of said handle and provided with a flat portion upon one side of the handle terminating in a straight sharpened edge, a portion of said blade extending upon the opposite side of the handle from said flat portion being curved and presenting outwardly a convexed surface, said curved portion terminating in a concaved sharpened edge.

1,352,058. WATER-CLOSET SEAT. SAMUEL T. FROTHINGHAM, Allston, Mass., assignor to Fibre Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 20, 1919. Serial No. 318,635. 2 Claims. (Cl. 4—18.)



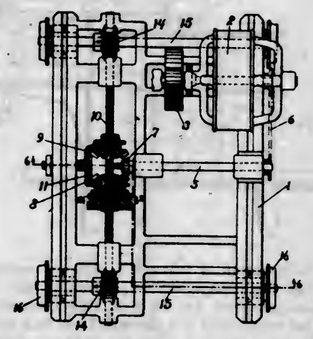
1. The combination with a water closet seat formed of layers of material, of a hinge, an interiorly-threaded sleeve passing through a plurality of said layers, a flange on the inner end of said sleeve, said flange abutting one of said layers, and a screw passing through said hinge and threaded to said sleeve.

1,352,059. RADIOTELEGRAPHY. LEONARD F. FULLER, Palo Alto, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Original application filed Apr. 23, 1917, Serial No. 163,793. Patent No. 1,330,254, dated Feb. 10, 1920. Divided and this application filed Sept. 23, 1918. Serial No. 255,245. 7 Claims. (Cl. 250—19.)



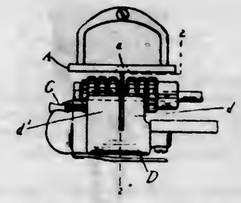
2. In an arc radio generator, two normally stationary electrodes between which an arc is formed and a third electrode movable into contact with one of the stationary electrodes.

1,352,060. CENTRIFUGAL BRAKE FOR POWER-TRUCKS. ARTHUR H. GIBSON, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 24, 1917. Serial No. 182,439. 10 Claims. (Cl. 188—185.)



1. In a power driven truck, in combination, a reversing mechanism and a centrifugal brake mounted thereon, having members to frictionally engage a non-rotating member of said reversing mechanism when the speed of said truck exceeds a maximum.

1,352,061. CLOTH-FEED MECHANISM FOR BLIND-STITCH SEWING-MACHINES. JACOB GOLDBERG, Cincinnati, Ohio, assignor to The Goldberg Padding Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 3, 1919. Serial No. 321,372. 2 Claims. (Cl. 112—178.)



1. In a machine of the class described the combination of a support, a bridge pivoted at one end to the support,

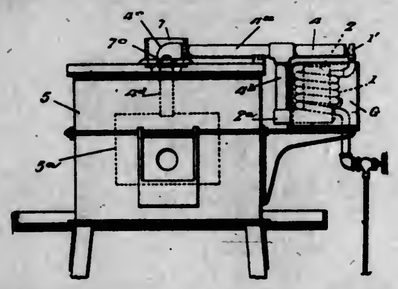
and having in its opposite end a slot, and a set screw mounted in the support and having a reduced end passing through the slot, the slot and the reduced end being adapted to limit the movement of the bridge and being so proportioned that at one limit of movement of the bridge the machine is adapted for felling and at the other limit of movement is adapted for blind-stitching.

1,352,062. BOTTLE-STOPPER. PAUL J. HENTSCHEL, Baltimore, Md. Filed Feb. 12, 1920. Serial No. 358,012. 1 Claim. (Cl. 215—14.)



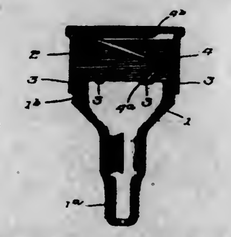
A bottle stopper comprising an integral disk of fibrous material having its upper and lower surface provided with substantially circular weakening indentations, or cuts, the line on the upper surface being arranged at a greater distance from the center than the lower, the indented line on the upper surface being deflected outward at one point to form a finger tab, a portion of the material of the disk adjacent said tab portion being removed.

1,352,063. KEROSENE-GAS-BURNING FURNACE. CLARENCE A. HILL, Columbus, Ohio, assignor to The Champion Kerosene-Burner Company, Kenton, Ohio, a Corporation of Ohio. Filed Nov. 7, 1919. Serial No. 336,376. 6 Claims. (Cl. 158—53.)



1. In combination, a furnace having an opening in its wall for the reception of a fuel gas supply pipe; a hydrocarbon gas generator having a mixing tube, and a supply pipe for conducting the mixture from this tube having an elbow and extending into the furnace through said opening; with a cup connected to the furnace and surrounding said opening and inclosing the elbow, and a non-heat conducting packing within this cup around such elbow, substantially as described.

1,352,064. COVER-LOCKING DEVICE FOR GREASE-CUPS. WILLIAM G. HOFMANN, Battle Creek, Mich., assignor to Howard B. Sherman, Battle Creek, Mich. Filed Oct. 29, 1918. Serial No. 260,195. 2 Claims. Cl. 184—48.)



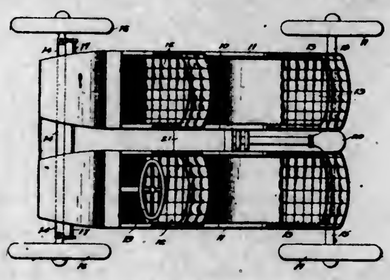
2. In combination a grease cup having an exteriorly threaded upper portion and provided with notches in the upper edge of such threaded portions; and a cover having an interiorly threaded portion adapted to engage the exteriorly threaded portion of the cup; with a helical spring having one end welded to the cover and its other end bent to form a downwardly projecting tooth adapted to ride upon the upper edge of the cover and engage the said notches when the cover is screwed onto the cup.

1,352,065. SIGN. PHILIP HOTTENSTEIN, Gleason, Wis. Filed Apr. 3, 1919. Serial No. 287,151. 4 Claims. (Cl. 40—145.)



1. The combination with a tubular post having slots in its upper end, removable means for closing the ends of said slots, of a plurality of signs each having a portion arranged in one of said slots, each sign being provided with means at its inner end extending beyond a longitudinal edge of the sign whereby said means is disposed within the post to abut with the removable means to prevent accidental displacement of the sign.

1,352,066. AUTOMOBILE-BODY CONSTRUCTION. JOHN JAMES JONES, Wichita, Kans. Filed Nov. 5, 1918. Serial No. 261,246. 3 Claims. (Cl. 180—89.)



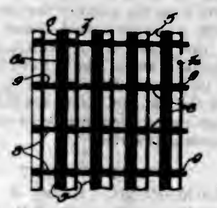
1. A motor car of the type described, including a four wheeled frame and a pair of laterally spaced substantially parallel bodies separated throughout their lengths with motive parts disposed between the bodies and accessible from either thereof.

1,352,067. VERMIN-EXTERMINATOR. ISAAC N. KEYSER, Urbana, Ohio. Filed Mar. 9, 1920. Serial No. 364,424. 8 Claims. (Cl. 43—131.)



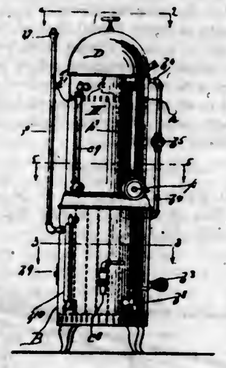
1. A vermin exterminator comprising a receptacle having an ingress opening in one of its walls, and a partition movably mounted in the receptacle for adjustment toward and from the ingress opening, said partition sub-dividing the interior of said receptacle into a poison-containing compartment and a non-poison-containing compartment, the latter being in direct communication with said ingress opening, said partition having an opening connecting said compartments, the aforesaid openings being arranged out of axial alinement with each other.

1,352,068. RADIATOR-CORE. ROBERT KLEINS, Chicago, Ill. Filed Sept. 24, 1918. Serial No. 255,505. 3 Claims. (Cl. 257—129.)



1. In a radiator of the kind described, coöperating plates for forming a radiator core unit, one of said plates being folded transversely at intervals to form laterally projecting leaves or walls and having longitudinally extending shallow grooves pressed into its face opposite to said walls, the other plate being flat and provided with outwardly extending depressed portions spaced longitudinally thereof similar to the spacing of said leaves and adapted to space the leaves of an adjacent plate, the hollow sides of said depressions being arranged opposite to said grooves and the said plates being adapted to be joined at their edges by soldering or otherwise, substantially as described.

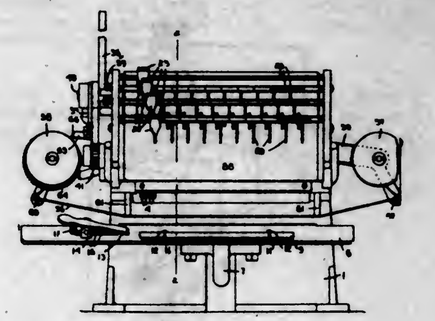
1,352,069. COFFEE-URN. EDWARD KRONMAN, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,075. 5 Claims. (Cl. 53—3.)



1. A unitary water boiler and coffee urn of the character designated, comprising a basic boiler surmounted by a high temperature compartment heated by hot air boiler flue means, a coffee container positioned in said high temperature compartment, a hot water stand pipe connecting the lower portion of said boiler with the upper part of said coffee container, a valve interposed in said hot water stand pipe and a discharge pipe disposed within the boiler, repour piping connecting the lower portion of said coffee container with a spraying device in the upper part thereof, and a pump interposed in said repour piping for effecting a forced circulation of the liquid coffee.

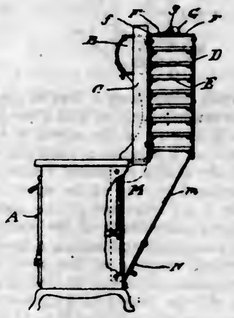
1,352,070. LISTING-MACHINE. GEORGE H. LANG, Boston, Mass. Filed Oct. 3, 1919. Serial No. 328,142. 18 Claims. (Cl. 101—96.)

1. In a listing machine the combination with a plurality of type wheels each having a toothed member rigid therewith, of an actuating key coöperating with each toothed member for setting the corresponding type wheel and



constructed to set said type wheel one step in either a forward or backward direction.

1,352,071. DRIER ATTACHMENT FOR STOVES. GEORGE M. LEEPER, Oakland, Oreg. Filed Jan. 2, 1920. Serial No. 349,107. 3 Claims. (Cl. 34—89.)

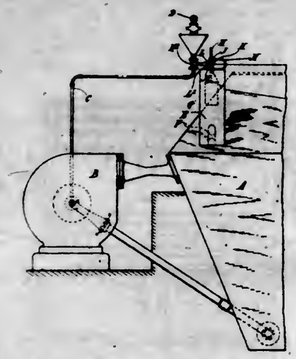


1. The combination with a stove or range provided above its top with a warming closet, of a drier applied to the stove in rear of its lower portion and the warming closet, comprising a drying chamber in rear of the warming closet and an air chamber below the drying chamber having as its front wall the rear wall of the stove and as its rear wall an inclined, reflecting plate which serves to support the drying chamber and having side parts which are attached to the sides of the stove, substantially as described.

1,352,072. APPARATUS FOR THE CONCENTRATION OF ORES. FLEURY JAMES LYSTER, Broken Hill, New South Wales, Australia, assignor, by mesne assignments, to Minerals Separation North American Corporation. Filed Nov. 18, 1916. Serial No. 132,059. 3 Claims. (Cl. 83—85.)

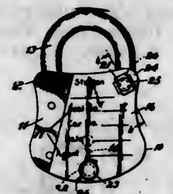
1. A froth-flotation ore-concentrating apparatus comprising a separating vessel, a pulp-agitating-and-aerating pump adapted to draw in air and introduce it into the pulp and deliver the aerated pulp to the separating vessel,

a float in the separating vessel, and means controlling the admission of air to the pump and controlled by the



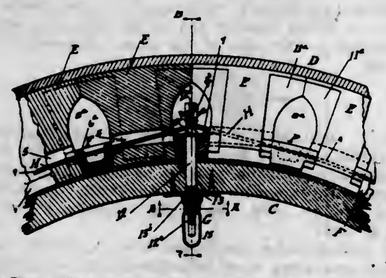
float to increase the feed of air to the pump as the liquid level rises in the separating vessel.

1,352,073. SEAL FOR LOCKS. IRA A. MCCORMACK, New York, N. Y. Filed Mar. 1, 1919. Serial No. 280,071. 1 Claim. (Cl. 70—97.)



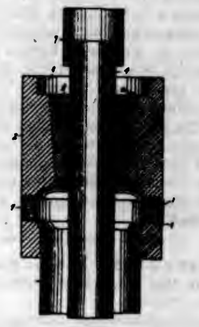
A seal for a lock, comprising a fragile plate including two apertured extension members, said plate and members being adapted to be applied on the casing of a lock having a key hole as well as a shackle, a fixed pin with a head protruding from the casing in spaced relation to the key hole for being engaged by one of the apertured members of the plate, and a pin rotatable in the casing with the opening and closing movements of the shackle, said pin protruding from the casing and having a head over which the second apertured member of the plate is guided so that with the closing movement of the shackle on the casing the plate will be caused to be removably held on the casing by the pins whereby breakage of the plate will be required to obtain access to the key hole.

1,352,074. TIRE. JOSEPH N. MCFATE, Phoenix, Ariz., and HERBERT L. GLAZE, Los Angeles, Calif.; said Glaze assignor of four-tenths of his right to said McFate. Filed Apr. 23, 1918. Serial No. 230,338. 9 Claims. (Cl. 152—5.)



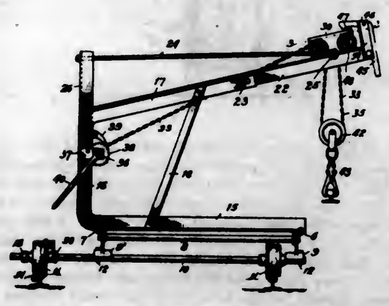
2. In a tire, a plurality of independent and interchangeable cushion members adapted to be disposed between the casing and the rim and having spaced base portions, while the outer ends thereof are enlarged longitudinally to arch over the said spaces and abut against each other, said outer ends being also formed with lateral abutments which are curved to fit the tread portion of the casing and recede from the sides of the casing at the base thereof to provide clearance spaces, spacer elements interposed between the bases of the cushion members and formed with inclined sides which have a wedge action upon the inner side walls of the casing to hold the casing in position upon the rim, and means for binding said cushion members and spacer elements down upon the rim of the wheel in continuous series.

1,352,075. CASING-HEAD. HENRY S. MCGARRY and JOHN D. CARR, Humble, Tex. Filed Mar. 28, 1919. Serial No. 285,921. 1 Claim. (Cl. 285—22.)



A device of the character described comprising a tubular member having an opening therethrough, provided to receive a pipe, said member being adapted to be screwed on the upper end of a well casing, and being provided with an annular recess in the upper end, a portion of the wall being formed with an upwardly inclined wall, and the covering adapted to fit into said recess and through which said pipe extends, said covering closing the openings through said tubular member.

1,352,076. RAIL-TRUCK. PATRICK H. MADDEN, Sparta, Wis. Filed May 8, 1918. Serial No. 233,241. 3 Claims. (Cl. 212—11.)



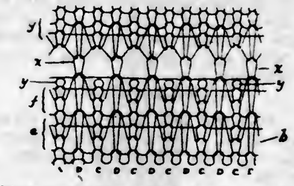
1. In a rail truck, the combination of a frame, carrying wheels for said frame spaced apart and arranged to run on the rails of a railway track and provided with means for retaining the truck on the track-rails, a supporting structure sustained by said frame comprising vertically extending members disposed entirely adjacent one side of the frame so as to leave space on the other side thereof to permit rails to be laid on and supported by the frame between the track rails and an elevated supporting member extending transversely from the vertical members over said clearance space and projecting beyond the track-rail at the side of the track adjacent said load-space, and rail-hoisting means whereby a load-rail may be lifted from the ground at one side of the track and deposited onto the frame so it will be supported thereon between the track-rails.

1,352,077. LANDING DEVICE FOR AEROPLANES. ERNEST L. MARTIN, Houston, Tex. Filed Feb. 26, 1920. Serial No. 361,496. 4 Claims. (Cl. 244—2.)



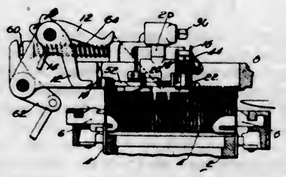
1. The combination with an aeroplane, of a landing device depending therefrom and including landing wheels pivotally connected to the fuselage and means for simultaneously adjusting said wheels laterally, in the same direction.

1,352,078. STOCKING. JAMES C. MATLACK, Philadelphia, Pa., assignor to Notaseme Hosiery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 12, 1918. Serial No. 266,416. 6 Claims. (Cl. 66—4.)



1. A stocking comprising a plain knit tubular part having a given number of stitches to a course, a relatively elastic rib top having a greater number of stitches to a course, the rib top adjacent the plain knit top comprising a series of plain knit wales and a series of tuck stitch wales alternating with the plain knit wales, the last loops of the tuck stitched wales being equally spaced apart and uniting the rib knit part to the equally spaced apart end loops of the plain tubular part, the last loops of the plain knit wales of the top being disconnected from the plain knit tubular part, said plain knit wales of the top being held from raveling by said tuck stitched wales.

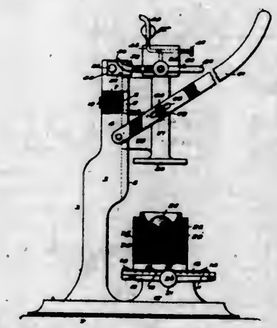
1,352,079. FEEDING MEANS FOR CIRCULAR-KNITTING MACHINES. MAX C. MILLER, Cumberland Hill, R. I., assignor to Jenckes Knitting Machine Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed Jan. 24, 1918. Serial No. 213,456. 10 Claims. (Cl. 66—12.)



1. A knitting machine, having, in combination, means for presenting yarns to and withdrawing them from the needles, two yarn holders for holding the ends of the idle yarns, and mechanism for successively opening the holders to receive the yarns withdrawn from the needles and for closing each holder before the other is opened.

10. A knitting machine, having, in combination, means for presenting yarns to and withdrawing them from the needles, a clamp for holding the idle yarns within the needles, and a series of guide pins in front of the clamp about different ones of which different yarns when presented to the needles may draw in a direction substantially at right angles to the bar.

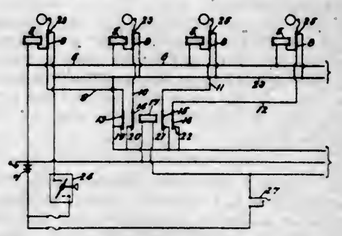
1,352,080. DENTAL CASTING-MACHINE. FELIX C. MONTUORI, Washington, D. C., assignor of one-half to Clyde M. Gearhart, Washington, D. C. Filed June 24, 1920. Serial No. 391,275. 12 Claims. (Cl. 22—69.)



1. In a dental casting machine, a hollow plunger having a blow pipe therein, means for supplying gas and air to said blow pipe and plunger and a valve casing mounted on the top of the plunger having a single valve for supplying and cutting off the feed of both gas and air to said plunger.

1,352,081. SIGNALING SYSTEM. JOHN F. MORAN, Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 8, 1917. Serial No. 173,544. 2 Claims. (Cl. 177—7.)

1. In a signaling system, a plurality of electrically-controlled bells, a source of current, circuits and connections for causing the operation of said bells from said source as single stroke signals, circuits and connections for causing the operation of said bells from said source as vibrating signals, and electrically-operated means for opening the circuits over which the single stroke operation is controlled during the operation of said bells as vibratory signals.

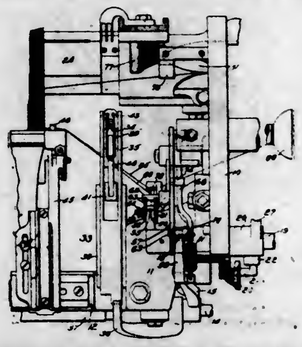


1,352,082. HOMOLOGUE OF TROPIN AND THE PROCESS OF PRODUCING SAME. EMIL MÜLLER, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y., a Corporation of New York. Filed Dec. 16, 1916. Serial No. 137,381. 3 Claims. (Cl. 23—24.)

1. A homologue of tropin which may be formed by treating dihydroanhydroecgoninalkyl ester with sodium in a solution of absolute alcohol and is difficultly soluble in petroleum ether and easily soluble in ether, benzol, al-

cobol or water, which crystallizes from ligroin in long needles which melt at 85° C. and rotates the plane of polarized light to the right, whose hydrochlorid melts at 210° C. and is soluble in water and alcohol and insoluble in ether, and whose platinum compound and picrate are difficultly soluble in water.

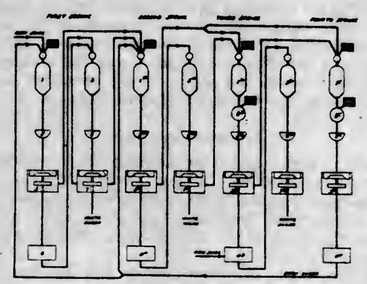
1,352,083. THREAD PARTING AND CLAMPING MECHANISM. JONAS NORTHROP, Hopedale, Mass., assignor to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed Mar. 8, 1918. Serial No. 221,110. 17 Claims. (Cl. 139—85.)



1. A loom having, in combination, weft replenishing mechanism, loom controlling devices, a filling fork located beside the replenishing mechanism, a fixed parting and clamping blade, movable parting and clamping blades normally closed, a shuttle feeler constructed to act as a thread hook to draw the outgoing and incoming filling ends toward the breast beam, means connected with the loom controlling devices to open the movable parting and clamping blades and to swing the shuttle feeler into shuttle feeling and filling and engaging position, a bunter on the lay arranged to push the shuttle feeler forward so that it may deliver the outgoing filling end to and close the movable parting and clamping blades to sever and hold the filling end.

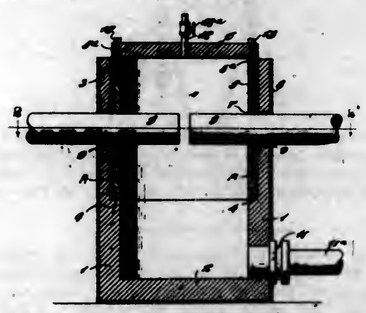
15. A loom having, in combination, weft replenishing mechanism, loom controlling devices, a filling fork located on the replenishing side of the loom, and means for drawing the incoming filling end to a position out of the range of action of the filling fork and holding it in that position so that it will not interfere with the detecting action of the fork.

1,352,084. SUGAR PROCESS. RUDOLPH E. POSPISIL, Chippewa Falls, and EDMUND KUREK, Madison, Wis., assignors of two-thirds to said Kurek. Filed Dec. 27, 1915. Serial No. 68,636. 4 Claims. (Cl. 127—17.)



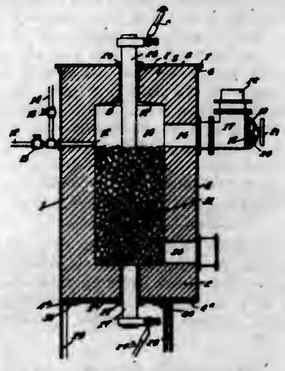
1. The process of making white granulated sugar which consists in treating the raw juice to recover the first strike of sugar therefrom, boiling in a vacuum pan the syrups from the first strike and a part of the dark sugar from the blank of a later strike, subjecting the same to water injections and raising the temperature to remove impurities, separating the crystals from the syrup, melting them and boiling the melted crystals in a vacuum pan to a massecuite and recovering the crystals therefrom.

1,352,085. PROCESS OF AND APPARATUS FOR PRODUCING CARBON AND GASEOUS FUEL. JAMES R. ROSE, Edgeworth, Pa. Continuation of application Serial No. 230,772, filed Apr. 25, 1918. This application filed Nov. 8, 1918. Serial No. 261,588. 16 Claims. (Cl. 204—31.)



1. The process of producing carbon which comprises introducing an aeriform hydrocarbon fluid into a generator heated by an electric arc thereby to raise the temperature of such fluid to a point sufficient to dissociate the fluid into solid carbon and a gas containing a preponderating amount of hydrogen.

1,352,086. PROCESS OF PRODUCING CARBON AND GASEOUS FUEL. JAMES R. ROSE, Edgeworth, Pa. Filed Dec. 26, 1918. Serial No. 268,390. 6 Claims. (Cl. 204—64.)

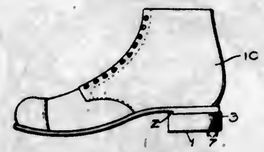


1. The process which comprises subjecting a mixture of hydrocarbon fluid, together with oxygen in proportion to produce incomplete combustion thereof, to discontinuous resistance material in an electric circuit, whereby the said fluid is dissociated into carbon and a gas containing a prepondering amount of hydrogen.

1,352,087. ELECTRIC BATTERY. OTTO E. RUHOFF, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed Nov. 21, 1918. Serial No. 263,593. 2 Claims. (Cl. 204—29.)

2. An electric battery, combining with the usual positive and negative elements, a depolarising mixture comprising 50 parts of manganese dioxid compound, 49 parts carbonaceous materials, 10 parts sal ammoniac, and 12 parts of a zinc chlorid 45° Baumé solution, the manganese dioxid used being of such a character that when leached with a 30% zinc chlorid solution, saturated with sal ammoniac, substantially no trace of poisonous metal is shown.

1,352,088. ICE-CREEPER. THOMAS SAIA and MIKE BUTERA, Pittsburgh, Pa. Filed Feb. 11, 1920. Serial No. 357,901. 2 Claims. (Cl. 36—62.)



1. An ice creeping device comprising a rubber heel cap including a heel tread portion and integral breast and elastic band portions, adapted to fit over a shoe heel and be retained thereon by the band portion, said tread portion of the cap being provided with openings therethrough, a removable creeper having its prongs extending through the said tread openings, and a plate disposed in said cap to retain the creeper in place.

1,352,089. SPARK-PLUG. ALBERT SCHMIDT, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Nov. 8, 1918. Serial No. 261,702. 14 Claims. (Cl. 123—169.)



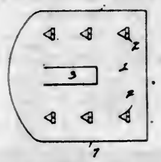
1. A spark plug comprising a shell having a center bore, a central electrode, an insulator surrounding said electrode and fitting within the inner bord of said shell, and a spring surrounding said electrode and acting upon said insulator for retaining said insulator in place within said shell.

1,352,090. LOCK-NUT. LAWRENCE J. SCHNELL, Portland, Oreg. Filed Nov. 26, 1919. Serial No. 340,892. 3 Claims. (Cl. 151—25.)



2. A lock nut having a curved recess formed in a face of said nut with its curved portion forming a tangent with the root of said thread in said nut, a curved wall formed on the side of said recess adjacent to the thread, a section of thread adapted to be wedged between said curved side of the recess and the bolt member, a wire slide for said wedge and attached thereto, a coil spring member mounted on said wire slide and adapted to force said wedge member into a wedging position, a means for holding said wedge member out of position consisting of a bent end on said wire slide, and a recess in said nut adapted to receive said bent end, a means for preventing the escape of said wire member when the nut is not on a bolt, consisting of a second recess in said bolt positioned to engage said bent end after it has been released from its aforesaid position, a means for preventing the escape of said wedge member and its slide and spring, consisting of a counter sunk bolt whose head is adapted to cover a portion of said wire slide member.

1,352,091. SPLICER FOR SASH STRAPS AND CORDS. E BLAKE SHAND, Detroit, Mich. Filed Apr. 15, 1918. Serial No. 228,538. 3 Claims. (Cl. 24—124.)



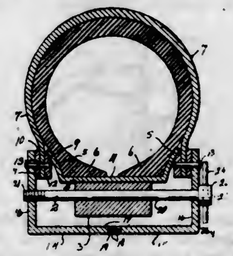
1. A splicer for splicing a cord to a tape consisting of a blank of comparatively soft metal having a substantially central tongue on one side of the body thereof and prongs provided on the same side adjacent each longitudinal edge of the blank, the tongue providing a means for attaching a tape thereto and the device adapted to be folded about the sash cord and tape with the prongs engaging the cord.

1,352,092. SPRING CLASPING TERMINAL FOR ELECTRIC CONNECTORS. HOWARD B. SHERMAN and FRANK D. MALTBY, Battle Creek, Mich.; said Maltby assignor to said Sherman. Filed Jan. 22, 1919. Serial No. 272,488. 6 Claims. (Cl. 173—269.)



6. In combination, a sleeve adapted to be connected with an electrical conductor; a terminal having a shank detachably engaged with said sleeve, and a projecting tongue having its outer end bent at substantially a right angle and adapted to engage a binding post; and a helical expansion spring strung on said tongue between the shank and bent end and having an extension on its outer end bent opposite the bent end of the tongue and adapted to engage the binding post opposite the bent end of the tongue to yieldingly hold the tongue in engagement therewith.

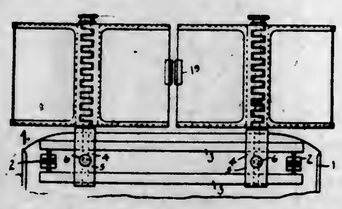
1,352,093. TIRE COVER OR PROTECTOR. MARCUS A. SHOTWELL, Miami, Fla. Filed Jan. 7, 1920. Serial No. 349,885. 2 Claims. (Cl. 152—17.)



1. In a tire cover or protector comprising segmental cover sections engaging over the tread and adjacent the sides of the tire, right angle clamps disposed with relation to the felly of the wheel, whereby certain of their arms are positioned radially and spaced from the opposite sides of the felly and other of their arms positioned in spaced parallel planes with the inner cylindrical surface of the

felly, the radial arms being connected to the ends of the cover section, means connecting the adjacent ends of the arms which are disposed in a plane parallel with the inner surface of the felly, bolts passing through the felly and adjustably connecting the radial arms of the right angle clamps for adjusting the same and regulating the clamping action of the clamps, whereby the clamps may give with respect to the felly.

1,352,094. WINDSHIELD. HARVEY G. SMITH, Los Angeles, Calif., assignor of one-half to Verna B. Liebmann, San Diego, Calif. Filed Nov. 12, 1919. Serial No. 337,539. 5 Claims. (Cl. 296—85.)



5. In a wind shield, a bar or bars adapted to be attached to a vehicle, one or more brackets adapted to slide laterally on said bar or bars, a hinge post vertically mounted in said sliding bracket, one or more windows or frames or both mounted on said hinge post by means of interlocking hinge eyes and adapted to rotate around said hinge post, and means for locking said frames or windows and said sliding bracket or brackets; all substantially as shown and described.

1,352,095. CUFF-BUTTON. WALTER HUGH SMITH, Oklahoma, Okla. Filed Apr. 10, 1920. Serial No. 372,828. 2 Claims. (Cl. 24—102.)



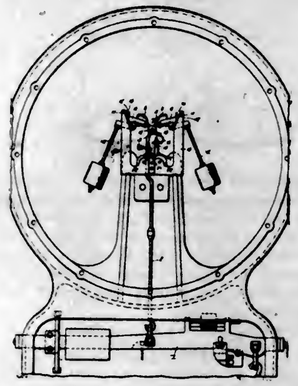
1. A cuff button comprising a shank which is ogeed shaped in side elevation, a head provided at one end of the shank, an arrowhead shaped portion provided at the opposite end of the shank, said arrowhead shaped portion having barbs extending along the intermediate portion of the shank.

1,352,096. VEHICLE TAIL-LAMP. LYLE K. SNELL, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 1, 1916. Serial No. 134,512. 2 Claims. (Cl. 240—46.)



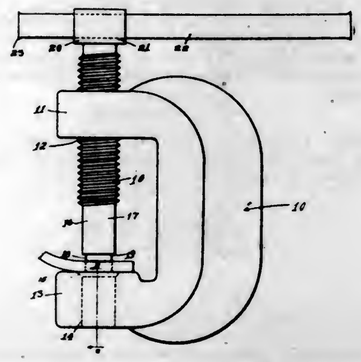
1. A vehicle tail lamp comprising a hollow casing of substantially triangular form and having substantially flat and parallel front and rear walls, a lower substantially horizontal open side within which opening a transparent member is held, and a license supporting flange or bracket depending below said opening; a lens held in place within an opening provided in the rear wall of said casing; a transparent member held in place within an opening provided in the front wall of said casing; a hollow tubular supporting member for supporting said casing from a vehicle; a lamp located adjacent the inner end of said supporting member and within said casing; and an electrical supply conductor extending through said supporting member for supplying current to said lamp.

1,352,097. SCALE. ANDREW SONANDER, Rutland, Vt., assignor to Howe Scale Company, Rutland, Vt., a Corporation of Vermont. Filed Aug. 11, 1919. Serial No. 316,715. 6 Claims. (Cl. 265—62.)



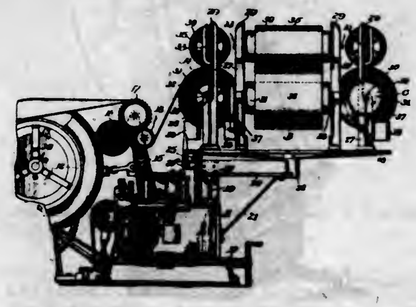
1. In a scale, the combination with a counterbalancing device, of a draft rod provided with a roller arranged in a plane containing the axis of said draft rod, a band having running engagement with said roller and connected to said counterbalancing device, a rack bar centrally disposed with respect to said plane, and means yieldably suspending said rack from said roller.

1,352,098. PRESS FOR REMOVING BUSHINGS AND THE LIKE. JOSEPH H. STALEY, Knightstown, Ind. Filed Aug. 11, 1919. Serial No. 316,634. 2 Claims. (Cl. 29—88.2.)



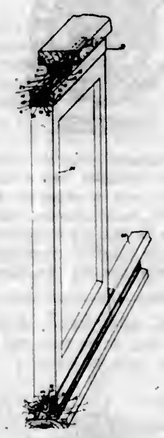
1. In a press, a body including arms extending at right angles thereto, one of said arms having a threaded opening, the opposite arm having an opening extending therethrough, a power element including a threaded rod positioned in the threaded opening, said threaded rod having a reduced portion and a relatively smaller reduced portion forming a part of the first mentioned reduced portion to provide an annular shoulder, the first mentioned reduced portion being equal to the length of the thickness of the arms.

1,352,099. MACHINE AND METHOD FOR BUILDING TIRES. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 31, 1913, Serial No. 782,174. Renewed July 22, 1918. Serial No. 246,232. 25 Claims. (Cl. 154—10.)



1. In a tire making machine, the combination of a tire form, a single means for stretching the tire fabric as it is applied to said form, a plurality of fabric stock rolls, and means for permitting said rolls to be brought selectively into coöperative relation with said tire form and fabric stretching means, substantially as described.

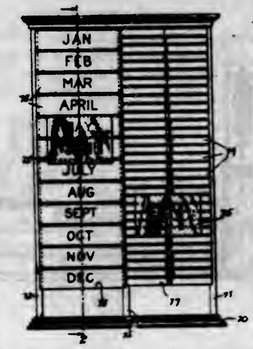
1,352,100. TRACK FOR SLIDING DOORS. JOSEPH SURPRISE, New Haven, Conn. Filed Sept. 6, 1919. Serial No. 322,024. 2 Claims. (Cl. 20—16.)



1. A track for the tops and bottoms of sliding doors formed with longitudinal ribs and with a central longitudinal groove, runways formed with bearing edges for the track, with shoulders to form a bearing for the ribs, and with a central longitudinal channel, a metal U-shaped ball bearing strip located in said channel and extending into said groove and formed with ball seats and balls located in said seats.

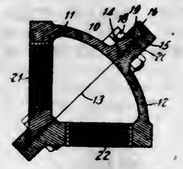
1,352,101. CABINET. ALBERT B. SWALES, London, England. Filed June 3, 1919. Serial No. 301,493. 4 Claims. (Cl. 129—15.)

2. An article of the class described, comprising a casing having adjacent compartments therein, a predetermined number of trays in each compartment, and a cover connected to each tray and adapted to normally lie within



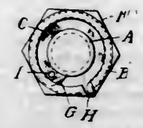
the same and also to be moved to position exteriorly thereof.

1,352,102. PIPE-FITTING. ADELOR E. TATRO, Everett, Mass. Filed May 19, 1919. Serial No. 298,198. 3 Claims. (Cl. 285—137.)



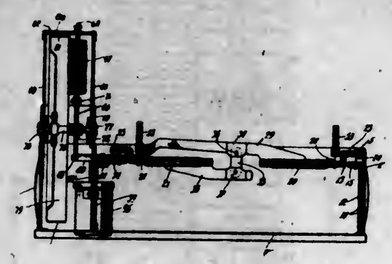
1. A pipe fitting comprising an elbow divided transversely thereof into two members, an annular flange on each of said members, and an annular ring provided with an annular recess fast to the face of one of said annular flanges, the other of said annular flanges projecting into said annular recess whereby said members may be rotated from 0° to 90° to assome different angles relatively to each other and may also be fastened together.

1,352,103. LOCK-NUT. NAPOLEON R. THIBEAT, Worcester, Mass. Filed Apr. 4, 1919. Serial No. 287,482. 1 Claim. (Cl. 151—25.)



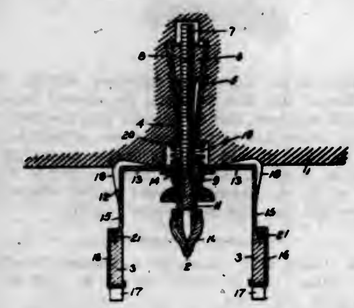
A lock nut comprising a screw-threaded nut having a circular grooved recess therein provided with a plane bottom sunk below the end or face of the nut and with a slot, a partial circular wire spring fitted in said recess to bear against the wall thereof all around, one end of said spring being sharpened and bent inwardly for pawl-like engagement in the thread of the bolt, and the other end being bent for engagement with the slot in said nut, the bottom of said circular recess being formed with a hole located at the side of said sharpened end opposite said slot, whereby an implement can be inserted in said hole to engage and move said sharpened end of the spring circumferentially and hold it out of engagement with the thread of the bolt when it is desired to unscrew the nut.

1,352,104. SCALE. JAMES M. TRINER, Chicago, Ill. Filed Apr. 23, 1917. Serial No. 163,935. 43 Claims. (Cl. 265—71.)



1. In a scale, the combination of scale levers, supports for the same, and flexible steel tape fulcrums inserted edgewise between said supports and levers, said flexible steel tape fulcrums being provided with portions causing the bending of each of said fulcrums along a predetermined line if a motion of said scale levers relative to said supports occurs.

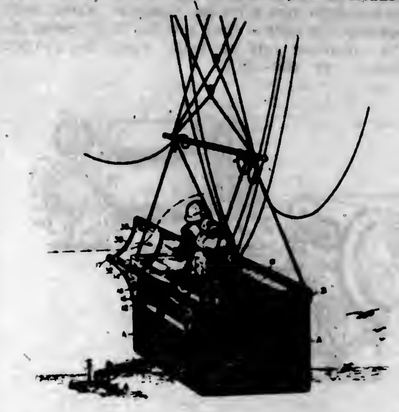
1,352,105. COMBINED TROLLEY-WIRE AND GUARD HANGER. THOMAS W. TWYMAN, Avella, Pa. Filed Apr. 6, 1918. Serial No. 227,116. 3 Claims. (Cl. 191—35.)



1. In a combined trolley wire and guard hanger, the combination with an anchor structure, of means carried by the anchor for supporting the trolley wire and means carried by the said anchor for supporting a trolley wire guard, said latter supporting means including a bracket having spaced apart depending arms, and a spring interposed between the bracket and anchor structure and exerting pressore on both to aid in maintaining said structure and bracket in position.

1,352,106. AERIAL OBSERVER'S WINDSHIELD. RAYMOND T. VREDENBURGH, Brookline, Mass. Filed June 21, 1918. Serial No. 241,249. (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.) 2 Claims. (Cl. 244—1.)

1. The combination with a balloon basket, of a wind-deflecting member disposed externally thereof and extending above the rim thereof, brackets secured upon the outside of the basket and extending outwardly therefrom and supporting said wind-deflecting member, and means for connecting the brackets and basket, said means being



movable to release positions for enabling gravital descent and separation of the brackets from the basket.

1,352,107. PUMP OR COMPRESSOR. JAMES H. WAGENHORST, Akron, Ohio. Filed Aug. 11, 1915. Serial No. 44,909. Renewed Jan. 29, 1919. Serial No. 273,883. 9 Claims. (Cl. 230—30.)



5. In a pump, a rotatable cylinder, a piston eccentrically mounted within said cylinder, and a blade connected to one of said members and working in a slotted portion of the other member, said cylinder and piston rotating in unison, said blade having a reciprocating and vibrating movement during such rotative movements, said cylinder and piston having openings for the passage of fluid.

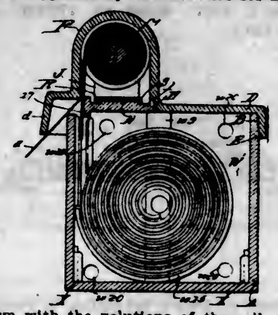
1,352,108. OYSTER-SHUCKING KNIFE. KEMP B. ARTHUR, Norfolk, Va. Filed Nov. 15, 1919. Serial No. 338,248. 4 Claims. (Cl. 17—31.)



2. In an oyster shucking knife, the combination with a knife blade comprising a body and a blade proper, and a handle carried by the body at its opposite end, of a U-shaped guard pivotally mounted upon one end of the body of the blade and being in conformation with the blade proper to receive and guard the same when the knife is not in use.

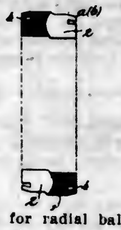
1,352,109. ROLL-FILM-DEVELOPING APPARATUS. GEORGE C. BEIDLER, Rochester, N. Y. Filed July 10, 1917. Serial No. 179,748. 38 Claims. (Cl. 95—90.5.)

1. In a device relating to photography, a receptacle and a closure therefor, members in the receptacle, means for supporting them in spaced relation to each other, coil form film holders supported by the members for holding a film



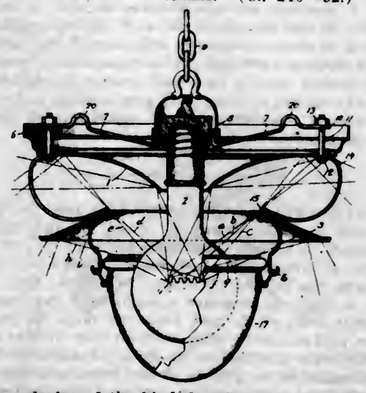
in coil form with the volutions of the coil of the film in spaced relation to one another.

1,352,110. BALL-RETAINER FOR RADIAL BALL-BEARINGS. CARL ALVAR BERNHARD RUNSTEN BRÄKENHIELM, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Nov. 30, 1918. Serial No. 264,801. 4 Claims. (Cl. 64—59.)



1. A ball retainer for radial ball bearings consisting of a ring having laterally open recesses serving as pockets for the balls, the intermediate walls separating the said recesses being provided with notches, said notches being arranged closely adjacent to one periphery of the ball retainer ring, so that each intermediate wall forms partly a rigid part serving as a support for the balls and partly a yielding tongue, said tongue slightly bent in a direction toward the rigid part and serving as a resilient retaining member for the balls.

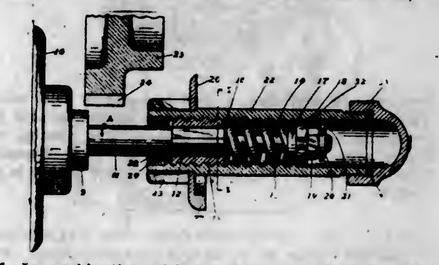
1,352,111. LIGHTING-FIXTURE. PAUL A. BREDSVOLD, Chicago, Ill., assignor of five-twelfths to Frank P. Thompson, two-twelfths to Frank M. Fairfield, and five-twelfths to Norine Bredsvold. Filed Sept. 4, 1917. Serial No. 189,594. 5 Claims. (Cl. 240—92.)



1. In a device of the kind described, a main reflector, a supplemental reflector in combination with spacing

means maintaining the supplemental reflector in spaced relation to the main reflector, said spacing members being extended and constructed to support a bowl.

1,352,112. MOTOR-DRIVE. CARL P. BROCKWAY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Feb. 14, 1919. Serial No. 276,950. 3 Claims. (Cl. 74—7.)



1. In combination with a motor driven shaft having a free extremity, a cylinder mounted upon said shaft, means within the cylinder operatively connected with the shaft for imparting a limited longitudinal movement to said cylinder, said means at the termination of said longitudinal movement locking the shaft and cylinder together rotatably, said cylinder being closed at its outer end and having an oil tight bearing upon the shaft at its inner end, and a driving wheel mounted upon said cylinder.

1,352,113. TUBULAR ICE-SKATE. WALTER T. K. BROWN, Branford, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Apr. 19, 1920. Serial No. 374,915. 2 Claims. (Cl. 46—50.)

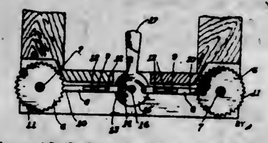


1. A tubular ice-skate, having a tube, a runner, heel-and sole-plates, tubular supports for mounting the heel-and sole-plates upon the tube, and vertical struts interposed between the said plates and runner and respectively located within the said tubular supports.

1,352,114. WINDOW-LOCKING DEVICE. JOHN CHOMOS, Toledo, Ohio. Filed Dec. 19, 1919. Serial No. 346,103. 1 Claim. (Cl. 292—22.)

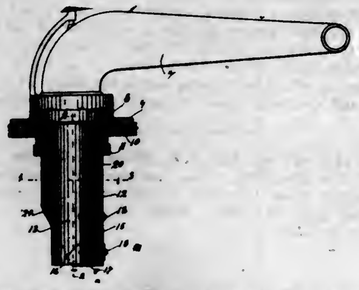
In combination with a window sash having an upwardly extending groove cut in the lower rail thereof, a stationary rack, a revoluble pinion in said groove revolubly mounted in the corner of said lower rail for engaging said rack, a slidable member having a longitudinal slot therein positioned in said rail groove, station-

ary pins in said rail passing through the slot in said member for allowing only longitudinal movement of said member, a tooth on the end of said member for engaging one of the spaces between the teeth of said pinion, a pin on the other end of said member, a slotted cam disk, said last mentioned pin being arranged to engage one of the



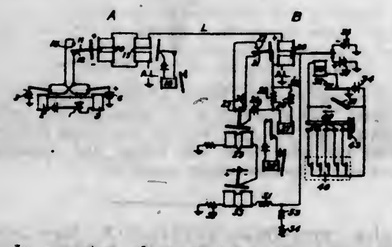
cam slots in said disk, a stud mounted in said rail on which said disk is mounted, and a handle on said disk projecting upwardly through said rail for rotating said disk to cause said member to engage and to be disengaged from said pinion whereby rotation of said pinion is prevented.

1,352,115. TONE-MODIFIER FOR TALKING-MACHINES. FRED W. COOLEY, Minneapolis, Minn. Filed Mar. 29, 1920. Serial No. 369,529. 5 Claims. (Cl. 181—27.)



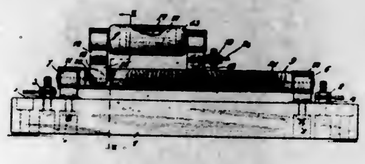
1. The combination with the tone arm of a sound reproducing machine, of a resilient tube spaced therefrom and located where the sound waves will pass therethrough on their way from said tone arm into the sounding chamber of said machine, a block secured to the interior of said resilient tube, and a spring tension device anchored to said block but capable of axial adjustments in respect to said block in a direction axially of said tube.

1,352,116. TELEGRAPHY. GEORGE O. CUMMINGS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 16, 1918. Serial No. 245,144. 3 Claims. (Cl. 178—22.)



1. In a system of secret telegraphy, a plurality of stations, a line conductor joining said stations, means for telegraphing from one of said stations to another over said line conductor, means at one of said stations for transmitting current impulses to another of said stations, and means at said last-mentioned station for retransmitting those current impulses back to the first-mentioned station during said telegraphing.

1,352,117. PROTECTING DEVICE FOR ELECTRICAL INSTRUMENTS. MINOR M. DAVIS, New York, N. Y. Filed June 5, 1917. Serial No. 172,866. 8 Claims. (Cl. 200—115.)



1. In electric protective apparatus, in combination, a block of insulating material provided with line terminals, a tubular member provided with metallically capped ends adapted to be detachably connected with said terminals, means provided within said tubular member including a spring and a body of fusible material adapted to establish an electrical connection between said terminals, a lightning arrester mounted upon said tubular member, one terminal of which extends into said tubular member and is mechanically connected with said body of fusible material, and the other adapted to connect with ground, the connection between the terminal of said lightning arrester and said fusible material being adapted mechanically to conduct heat from the former to the latter.

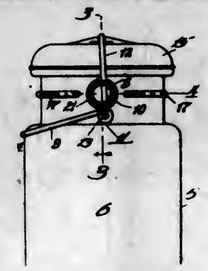
1,352,118. PIPE-COUPLING. FLOYD DOW, Wyanet, Ill., assignor of one-half to Llewellyn D. Edminster, Wyanet, Ill. Filed Apr. 7, 1919. Serial No. 287,991. 4 Claims. (Cl. 285—180.)



1. A coupling for pipe-sections formed on its inner surface at its opposite ends with circumferentially extending grooves extending at substantially 90° to the axis of the coupling and continuous or substantially continuous, with notches opening from said grooves through the ends of said coupling whereby said pipe sections and coupling are secured together and axial adjustment of the parts may be effected, for the purpose set forth.

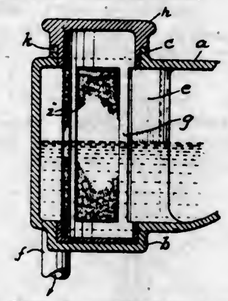
1,352,119. FRUIT-JAR FASTENER. LEO A. DREY, St. Louis, Mo., and JAMES L. HIATT, Sapulpa, Okla., assignors to Schram Glass Manufacturing Co., St. Louis, Mo., a Corporation of Missouri. Filed May 17, 1919. Serial No. 297,901. 2 Claims. (Cl. 215—88.)

2. A fruit jar fastener comprising a jar having on opposite sides of its neck relatively large integral trunnions, said trunnions being provided with circular grooves, a lever wire provided on its opposite ends with circular loops seated in the grooves of said trunnions, eyes formed in said lever wire below the circular loops and a clamping wire having formed on its ends hooks seated in the eyes formed in the lever wire, the pivotal connections between the clamping wire and the lever wire being so



arranged as to provide relatively short lever arms between the trunnions and said pivotal connections.

1,352,120. OIL-STRAINER. ELEUTHERE PAUL DU PONT, Montchanin, Del. Filed Nov. 4, 1919. Serial No. 335,626. 7 Claims. (Cl. 210—154.)

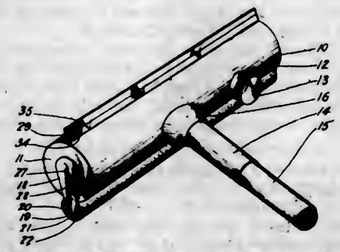


1. In an oil filter, in combination, a casing provided with an aperture in its top and having a depression in its bottom, wings extending into said casing, a frame terminating in a cap, forming a cover for said aperture, at one end, and in a cup, adapted to fit into said depression, at the other, a curved screen partially surrounding said frame throughout the greater part of its length, and means to so position said frame that the unscreened portion will be between said wings.

1,352,121. PERFORATED PELLET OF EXPLOSIVE POWDER AND PROCESS OF MAKING SAME. FRANCIS I. DU PONT and ERNEST DU PONT, Wilmington, Del. Filed June 12, 1918. Serial No. 239,530. 17 Claims. (Cl. 52—4.)

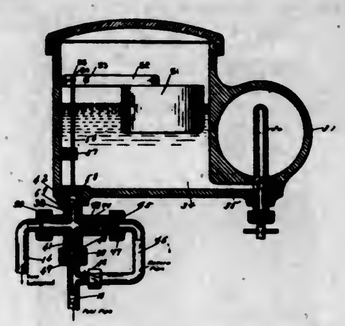
8. As a new explosive product, black powder dust cemented together into masses by means of a collodion.

1,352,122. WINDOW AND WALL CLEANER. HENRY ENGEL and EDWARD FELDMAN, New York, N. Y. Filed Mar. 19, 1920. Serial No. 367,063. 3 Claims. (Cl. 15—53.)



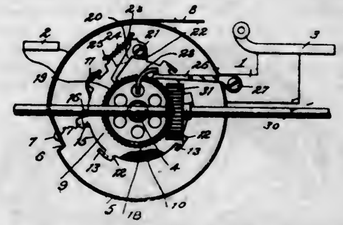
1. A cleaning appliance comprising a portable handled tank having a longitudinal concave perforate recess, a felt covered roller, slotted guide brackets engaging said roller to said tank, and springs for drawing said roller into the mentioned recess.

1,352,123. FUEL-FEED SYSTEM. CHARLES F. GREEN, Defiance, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Nov. 14, 1918. Serial No. 262,532. 5 Claims. (Cl. 158—36.)



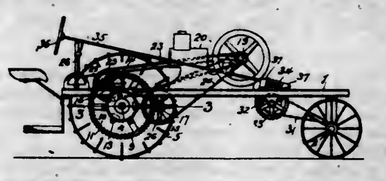
1. A device of the class described comprising a receptacle having inlet and outlet passageways leading to and from the same, a check valve in said inlet passageway opening in the direction of the receptacle, an arm pivotally mounted in the receptacle having a float thereon, a slidably mounted member pivotally connected with said arm and normally independent of said valve and adapted to hold the same closed when said float is moved to a predetermined position in said receptacle.

1,352,124. MAIN-SHAFT DRIVE. JOHN A. HAGERSTROM, Scranton, Pa., assignor to Victor Typewriter Company, Scranton, Pa., a Corporation of New York. Filed Sept. 29, 1917. Serial No. 194,079. 3 Claims. (Cl. 197—151.)



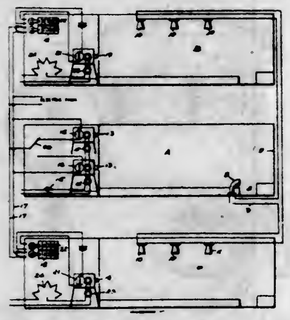
1. In a typewriter, a main spring shaft, a crown wheel journaled on said shaft, a main ribbon shaft, and a gear on said main ribbon shaft and meshing with the crown wheel on said main spring shaft, and a dog having ratchet engagement with said crown wheel, said dog being provided with a guard arm adapted to engage said crown wheel for limiting the displacement of said dog with respect to said crown wheel.

1,352,125. DRIVING-GEARING FOR TRACTORS. HILLIS A. HARBAH, Kansas City, Mo., assignor of one-half to Lizzie T. Leimbach, Rosedale, Kans. Filed June 24, 1918. Serial No. 241,486. 4 Claims. (Cl. 74—59.)



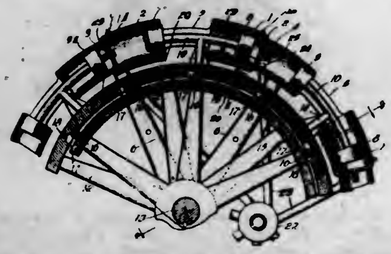
1. In a tractor, two traction wheels, a gear wheel having external and internal teeth, means actuated by the gear wheel for driving said traction wheels, two pinions respectively meshing with said two sets of teeth, a driving shaft, and means actuated by the driving shaft for independently rotating said pinions in like directions.

1,352,126. MEANS FOR SYNCHRONIZING AND HARMONIZING MOVING-PICTURE EXHIBITIONS. RICHARD H. HATFIELD, Brooklyn, N. Y. Filed Sept. 26, 1919. Serial No. 326,562. 7 Claims. (Cl. 88—16.2.)



1. Means for synchronizing and harmonizing moving picture exhibitions comprising, a master stereopticon projecting machine; a plurality of branch projection machines located at distances from said master machine; a plurality of electro-mechanically actuated devices for indicating, visibly, at the operating station of said branch machines, the movement of said master machine; means operatively connecting said devices, said means embodying an electrical supply and distributing circuits connecting said devices for operating the same in unison, and means for varying the speed of said branch machines.

1,352,127. INTERNAL-COMBUSTION ENGINE. JOHN HENDERSON, Chicago, Ill. Filed Oct. 8, 1917. Serial No. 195,341. 8 Claims. (Cl. 123—18.)



1. In an internal combustion engine, the combination of a plurality of cylinders, each comprising a pumping chamber and an expansion chamber, said cylinders being arranged in a circle and disposed with the pumping chamber of one cylinder opposed to the expansion chamber of the adjacent cylinder, means providing communication between the adjacent pumping and expansion cylinders for transferring gas from one to the other, pistons in said chambers, means connecting the pistons in opposed chambers, an oscillating member connected to said piston-connecting means, a rotating member, and means connecting said oscillating member with said rotating member.

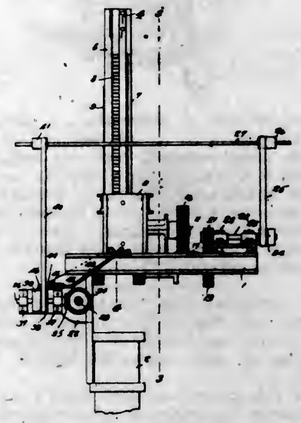
1,352,128. CONCRETE PILE CONSTRUCTION. CLARENCE S. HOWELL, New York, N. Y., assignor, by mesne assignments, of one-half to Lawrence McGuire, New York, N. Y. Filed Sept. 1, 1915. Serial No. 48,533. 13 Claims. (Cl. 61—74.)

1. A device of the class described comprising a solid, precast concrete pile, a reinforcing member embedded in the pile and extending substantially throughout the length thereof, a driving point to which said reinforcing member is permanently and securely anchored, and an exterior driving form adapted to receive the entire driving force and to transmit driving force to said driving point whereby the head of the pile is not subjected to any part



of the concussion of the driving force and whereby the entire concrete portion of the pile is pulled into the ground by the said driving point.

1,352,129. COTTON-TRAMPER. ERNST A. H. JACOB, San Antonio, Tex. Filed Aug. 25, 1919. Serial No. 319,556. 4 Claims. (Cl. 100—25.)

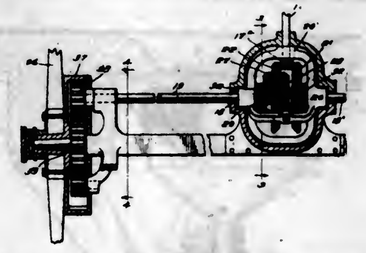


1. A cotton tramper comprising a frame; a trunk; a plunger mounted to reciprocate in the frame and coöperating with the trunk, the plunger including a double-sided free-ended rack; a radius arm mounted at its lower end to oscillate in an arc on the frame; a pinion carried by the upper end of the radius arm and coöperating with the rack; and means for rotating the pinion.

3. A device of the class described, constructed as set forth in claim 2 and further characterized by the fact that the eccentric means embodies disks fixed to the shaft and provided with cam tracks, the ends of the carriers being supplied with projections traversing the cam tracks.

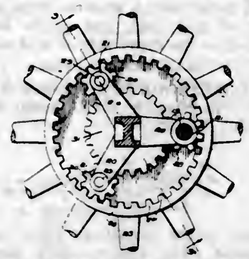
1,352,130. AUTOMOBILE-DRIVE. EDGAR JAMES, Lincolnton, N. C. Filed June 21, 1919. Serial No. 305,752. 2 Claims. (Cl. 74—99.)

1. In a device of the type described, a yoke, oppositely extending shafts having their inner ends rotatably mounted therein, said yoke having spaced arms thereon, a gear rotatably mounted on each of said shafts, one of said gears being provided with openings, pinions rotatably mounted upon the arms of said yoke and meshing with said gears, gears mounted on the inner ends of said shafts and disposed on opposite sides of one of said first



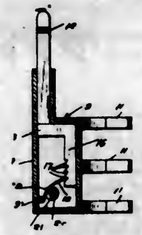
named gears, and pinions mounted in said openings and meshing with said last named gears.

1,352,131. AUTOMOBILE-DRIVE. EDGAR JAMES, Lincolnton, N. C. Original application filed June 21, 1919, Serial No. 305,725. Divided and this application filed Apr. 19, 1920. Serial No. 375,050. 2 Claims. (Cl. 74—7.)



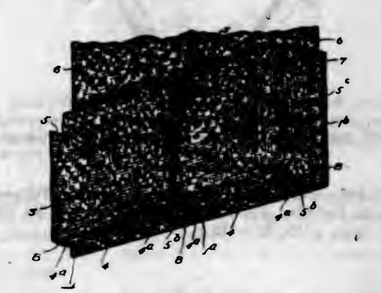
1. In driving gearing for motor vehicles, an axle, a driven wheel, embodying spokes, mounted upon each end of said axle, a plurality of arms mounted adjacent each end of said axle, one of said arms adjacent each end of the axle being in substantially horizontal alinement with the axle, a drive shaft mounted in said last named arms, driving pinions mounted on the outer ends of said shaft, idler pinions mounted on the other of said pinions, and an internally toothed gear carried by and arranged inwardly of each of said drive wheels and meshing with said pinions.

1,352,132. AUTOMOBILE-LOCK. ROBERT C. JENKINS, Bessemer, Ala. Filed June 5, 1919. Serial No. 302,027. 1 Claim. (Cl. 70—129.)



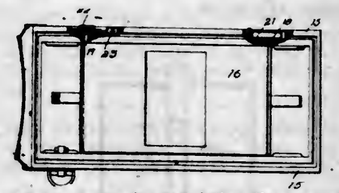
A lock adapted to be applied to the steering shaft tube of an automobile machine for locking the steering wheel with relation to the tube, said lock comprising a casing, means for securing the casing in position upon the tube, said casing being provided at the top side and in the vicinity of its front face with a guide sleeve, a bolt having end portions which are offset with relation to each other and which are parallel, one end portion of the bolt being slidably received in the sleeve and provided with a fork adapted to engage a spoke of the steering wheel, the other end portion of the bolt being provided with notches, a key barrel journaled in the casing and disposed transversely under the intermediate portion of the bolt and tumblers pivotally mounted in the casing and disposed transversely across the key barrel and having free ends which are engageable with the notches at the inner end of the bolt.

1,352,133. WOVEN POCKETED CARRIER. VICTOR H. JENNINGS, Worcester, Mass., assignor, by mesne assignments, to Frank R. Batchelder, Worcester, Mass. Filed Aug. 14, 1917. Serial No. 186,214. 22 Claims. (Cl. 224—23.)



1. A woven carrier having a square-bottomed pocket comprising pocket-front, pocket-bottom, pocket-back, and side-wall web-portions, all woven in one piece, with said side-walls formed with lower edges corresponding in direction with the top edge of the pocket at a distance therefrom determining the height of the pocket, and said bottom extending beyond said lower edges and formed with terminal ends at an agle to said lower edges of the side-walls, and united thereto by applied fastenings, thereby forming at the ends of the pocket-bottom corners projecting forward from the pocket-back and disposing the said bottom at angles with the front and back so as to square the pocket.

1,352,134. CAMERA. CARL G. JOHNSON, Eau Claire, Wis. Filed Oct. 8, 1917. Serial No. 195,406. 1 Claim. (Cl. 95—11.)

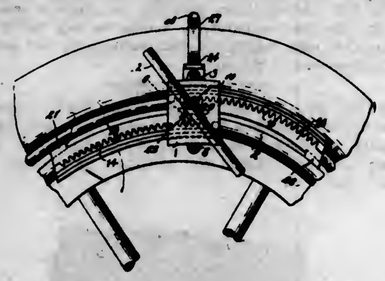


In a camera, means for restricting the amount of film exposed to the light during exposure and movable to vary the position of the film exposed, the camera having auxiliary sight openings on each side of the usual opening for the position indicating numerals, and arranged in spaced relation, said restricting means comprising a curtain having an opening, a spring roller journaled in the camera and supporting the curtain at one end and upon which the curtain winds, a widing roller journaled in the camera for the other end of the curtain, said spring supported roller normally winding the curtain, and a releasable catch for the other roller.

1,352,135. DEVICE FOR REMOVING TIRES FROM RIMS. GEORGE G. JONES, Cleveland, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed June 13, 1917. Serial No. 174,426. 13 Claims. (Cl. 157—6.)

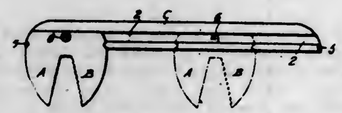
1. In a tire removing tool, the combination of a plurality of parallel separable fingers adapted to be thrust

under both beads of the tire between them and both flanges of the rim, and means for causing the separation



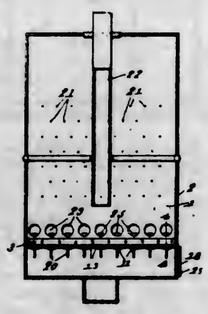
of such fingers laterally and in an arc practically corresponding to the periphery of the rim while preserving their parallelism and while they are between the tire and rim.

1,352,136. WRENCH. OLIVER R. JONES, Welland, Ontario, Canada. Filed Aug. 11, 1919. Serial No. 316,769. 1 Claim. (Cl. 81—119.)



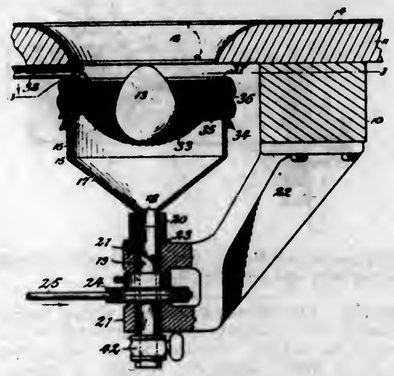
In a device of the class described, comprising a bar handle member regular in cross-section from end to end, a jaw-carrying member slidable on said handle from one extreme end to the other to a position when at said ends the edge of said jaw-carrying member is flush with the corresponding end of said bar handle, substantially as and for the purpose set forth.

1,352,137. TOY PIN-BOARD. WALTER LENCHARD, McKeesport, Pa. Filed Oct. 17, 1919. Serial No. 331,435. 5 Claims. (Cl. 46—61.)



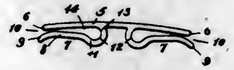
1. In a game apparatus, a board provided with a plurality of openings for passage of a game piece, a bridge member, a plurality of disks pivotally mounted adjacent said bridge member for movement toward and away from the same, means for releasably securing said disks in raised position, means actuatable by a game piece passing through said openings for releasing said disks, and means for pivotally supporting the disks and for returning the same to raised position.

1,352,138. EGG-WASHER. GUILFORD MCCRAY, Tomales, Calif. Filed Mar. 27, 1920. Serial No. 369,405. 10 Claims. (Cl. 146—14.)



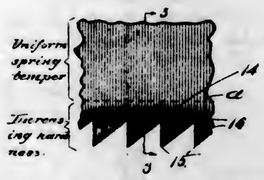
1. An egg washer comprising a rotary bowl having an outlet in its lower part, a washing cloth mounted on the upper part of said bowl, and means for supplying a washing liquid to the upper side of said cloth.

1,352,139. COLLAR-HOLDER. JOSEPH A. MARINER, Chicago, Ill. Filed Jan. 6, 1919. Serial No. 269,941. 3 Claims. (Cl. 24—81.)



1. A collar holder comprising a bar consisting of a single unfolded strip, and clamping members coacting therewith connected directly with the bar at points between the ends thereof, and extending outwardly in clamping relation with the end portions of said bar.

1,352,140. TEMPERED BLADE. CHARLES NAPIER, Springfield, Mass., assignor to Napier Saw Works, Inc., Springfield, Mass., a Corporation of Massachusetts. Original application filed Dec. 9, 1918, Serial No. 265,836. Divided and this application filed Jan. 30, 1919. Serial No. 274,006. 6 Claims. (Cl. 29—95.)

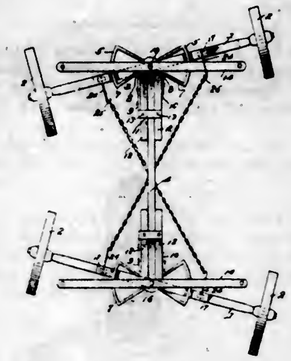


1. A blade having a hardened cutting edge and a body integral therewith and in a state of spring temper, joined by an edge region gradually varying in hardness between said states, whereby the hard but brittle edge is supported against permanent bending and breakage upon a strip of metal at least as hard as the body of the blade, and decreasing in hardness as the edge is receded from.

1,352,141. RUNNING-GEAR FOR WAGONS AND AUTOMOBILES. ANDREW S. OUTCALT, Ironton, Wis. Filed Oct. 8, 1919. Serial No. 329,261. 4 Claims. (Cl. 280—102.)

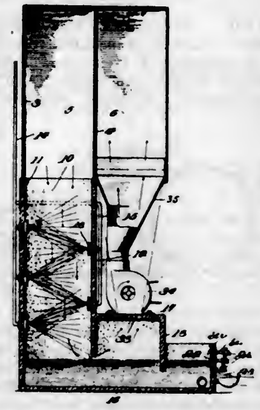
3. In a running gear, the combination of a pair of axles, bearing plates resting upon said axles, each bearing plate provided with a depending lug extending into the axle, bound frames resting upon said bearing plates, bolsters resting upon said bound frames, a coupling pole

connected to said bolsters, draw bolts extending into said axles and into said depending lugs of the bearing plates,



and flexible connecting means attached to the outer ends of the draw bolts.

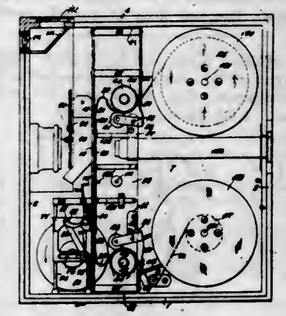
1,352,142. SMOKE-FILTER AND FORCE-DRAFT DEVICE FOR FURNACES. HARRY ROOS PALMER, Harrisburg, Pa. Filed Aug. 15, 1919. Serial No. 318,431. 4 Claims. (Cl. 261—117.)



1. An apparatus of the character described, comprising a housing having an inlet at its upper end, spray nozzles arranged in the sides of the housing, a tank in communication with the lower end of the housing, and having a portion thereof closed, and having a discharge opening in its upper end, a baffle plate between the housing and discharge opening, and means for maintaining a predetermined water level in said tank.

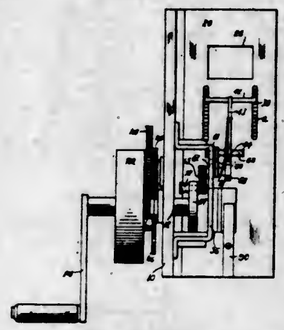
1,352,143. MOTION-PICTURE CAMERA. WALTER PARKES, Cleveland, Ohio, assignor, by mesne assignments, to Henry C. Osborn, Cleveland, Ohio. Filed July 21, 1917. Serial No. 181,943. 8 Claims. (Cl. 88—18.4.)

1. In a motion picture camera, the combination, with means for guiding the film, of a reciprocating member, a crank, means connecting the crank pin with said member, a hook pivoted to the member, a rock arm connected with



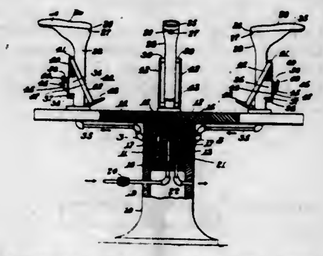
the hook, and a link connecting said rock arm with the crank pin.

1,352,144. MECHANISM FOR FEEDING FILMS. WALTER PARKES, Cleveland, Ohio, assignor, by mesne assignments, to Henry C. Osborn, Cleveland, Ohio. Filed Dec. 19, 1917. Serial No. 207,974. 19 Claims. (Cl. 88—18.4.)



5. The combination of a reciprocating carriage, a claw pivoted thereto, a rock shaft carried by the carriage, a cam on the rock shaft adapted to swing the claw, an operating crank, and a connection between the crank and rock shaft.

1,352,145. INNERSOLE-APPLYING DEVICE. GEORGE F. QUINBY, Dorchester, Mass. Filed Nov. 3, 1919. Serial No. 335,538. 20 Claims. (Cl. 12—33.)



1. In a device of the class described, a shoe support having a depression in the top thereof adapted to receive a complete inner sole; an expansible pad positioned in said depression; and means for inflating said pad.

16. In a device of the class described, a pedestal; a revoluble table mounted thereon; a plurality of shoe sup-

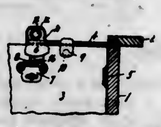
ports on said table; an inflatable pad on the top of each shoe support; and means whereby during the rotation of said table air is admitted to each pad retained therein for a predetermined time and then exhausted therefrom.

1,352,146. STEEL WHEEL. LAWRENCE MERLE RICKETTS, Baltimore, Md., assignor of one-half to Walter A. Harman, Baltimore, Md. Filed Aug. 23, 1919. Serial No. 319,365. 2 Claims. (Cl. 21—69.)



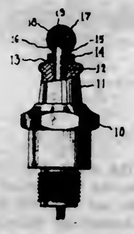
1. A steel wheel having an annular body portion near its rim lying at its inner part in a plane substantially at right angles to the wheel axis and at its outer part at an angle extending to one side of the said plane, said body portion merging into an overhanging rim at the extreme outer edge thereof, the center of said rim lying over the inner part of said body and substantially centrally in relation thereto, said rim being flanged at its inner edge, the outer edge of said rim being flangeless, and means for holding a tire demountably on said rim, substantially as described.

1,352,147. DOOR-STOP. ARTHUR CLARKE SARGEANT, Agawam, Mass. Filed May 13, 1919. Serial No. 296,773. 7 Claims. (Cl. 292—230.)



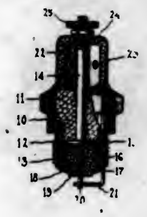
1. The combination, in a door stop, with a lug carried by the door, of a swinging latch supported from a member of the door casing, and provided on the bottom with a notched keeper located normally in the path of said lug, and adapted to be swung to permit said lug and the notched part of said keeper to become engaged, when said door is opened.

1,352,148. SPARK-PLUG. ALBERT SCHMIDT, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Sept. 25, 1918. Serial No. 255,574. 8 Claims. (Cl. 123—169.)



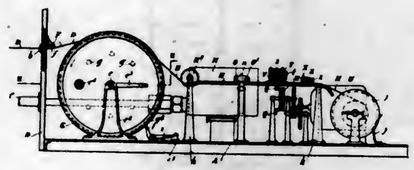
1. In a spark plug, an insulating element and an electrode secured therein and sealed at the protruding end thereof by a sealing member having a compression bearing against said insulator about the lower and outer periphery and against said electrode about the upper and inner periphery thereof.

1,352,149. SPARK-PLUG. ALBERT SCHMIDT, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Sept. 25, 1918. Serial No. 255,579. 6 Claims. (Cl. 123—169.)



1. A spark plug comprising a hollow external shell or casing; an insulator secured in place within said casing and located at the lower end thereof and filling the same at the said lower end, so as to prevent gases from accumulating between said casing and said insulator, and which insulator extends beyond the lower or inner end of said casing; a plurality of concentrically arranged ridges formed upon the exposed inner end of said insulator, and which ridges are located beyond the end of said shell or casing; and an electrode extending through a passage provided for it in said insulator.

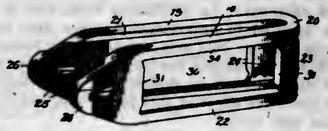
1,352,150. RECORDER FOR FLUID-PRESSURE PRESSES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,492. 4 Claims. (Cl. 234—1.)



2. An improved apparatus for drawing automatically a curve whose coördinates correspond respectively to the movements of a press ram and to the time periods during which the said movements take place, said improved apparatus comprising an endless belt driven at a constant speed over suitable guides by the action of a motor across a paper strip which is to receive the record, the said belt carrying a series of pencils or styluses spaced apart in such a manner that one pencil will come under the said strip near one edge of the latter at the instant when the preceding pencil has left the opposite edge, the said pencils projecting through a slit of the table over which the paper strip travels, and pressing the paper strip against an inked web, and means actuated by the movement of the press-ram for moving the paper-strip across the table.

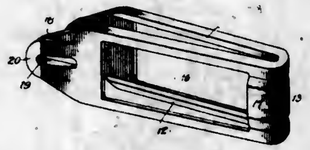
1,352,151. YOKE FOR RAILWAY DRAFT-GEARS. SIGVARD SIMONSON, Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill., a Corporation of Illinois. Filed May 7, 1918. Serial No. 233,021. 11 Claims. (Cl. 213—42.)

1. A draft-gear yoke consisting of a forging having sides and a connecting back integral with said sides, the latter having their front ends separated and formed for keying to the coupler shank and having longitudinally extending



openings therein between the back and the front ends adapted for the lateral insertion of the draft-gear.

1,352,152. MANUFACTURE OF RAILWAY DRAFT-GEARS. SIGVARD SIMONSON, Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill., a Corporation of Illinois. Filed May 7, 1918. Serial No. 233,022. 8 Claims. (Cl. 29—167.)



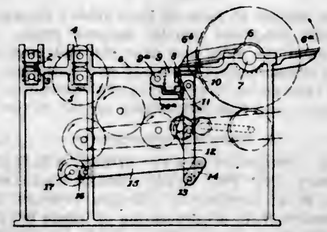
1. That improvement in making railway draft-gear yokes which consists in forming a blank of metal of sufficient length to form the sides and back of a yoke, shaping and forming reinforcements on the end portions of the blank for attachment to a coupler-shank, cutting draft-gear openings in the blank, and bending and doubling the blank about its medial portion to form a one-piece yoke and to bring the openings into juxtaposition to form a draft-gear pocket in the yoke.

1,352,153. SNAP-FASTENER. ELIZABETH JANE SMITH and DOUGLAS SMITH, Larchmont, N. Y. Filed Jan. 14, 1914. Serial No. 811,971. 2 Claims. (Cl. 24—218.)



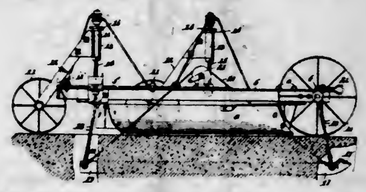
1. A member of a separable fastener having prongs thereon, a projecting socket-piece, a spring attached to said fastener and having parts adapted to project through said socket-piece to engage a ball-member when inserted in said socket-piece, said fastener member having a base-portion against that face of said base portion from which said socket-piece projects.

1,352,154. APPARATUS FOR CUTTING ROOFING-SHEETS. ALEXANDER S. SPEER, Chicago, Ill., assignor to The Roofing Patents Company, a Corporation of Delaware. Filed Apr. 5, 1919. Serial No. 287,819. 7 Claims. (Cl. 164—68.)



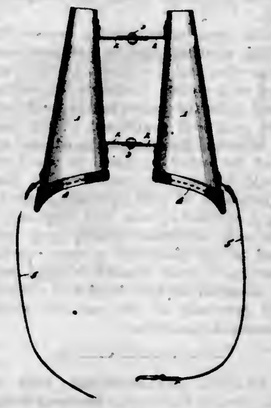
1. Apparatus of the character described comprising means for feeding a sheet of material, a pair of alternately acting cutters having different profiles, a stationary die for coöperating with one cutter, and supplemental die means movable into and out of juxtaposition to said stationary die for coöperating with the other cutter.

1,352,155. DITCH-FILLER. GUSTAV F. STORM, Sanborn, Iowa. Filed Jan. 11, 1918. Serial No. 211,329. 8 Claims. (Cl. 37—7.)



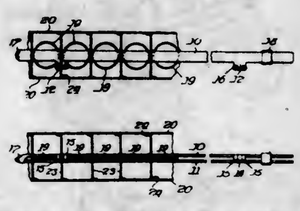
1. A ditch filler comprising a frame; a scraper blade on said frame; and a vertically adjustable guide on said frame arranged to run in a ditch, substantially as described.

1,352,156. EYE-GUARD. GUSTAV F. STORM, Sanborn, Iowa. Filed Jan. 11, 1919. Serial No. 270,760. 2 Claims. (Cl. 2—149.)



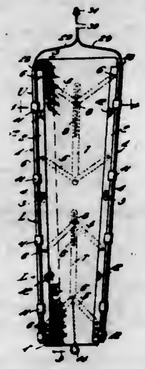
1. An eye guard comprising forwardly tapering tubular members, the rearward ends of which are shaped to fit the face of the wearer; adjustable cross-bars securing said tubular members together; and a head band secured to the rear ends of said tubular members and adapted to embrace the head of the wearer, substantially as described.

1,352,157. SPRING-INSERTING TOOL. LOUIS A. SUEKOFF, Chicago, Ill. Filed Sept. 5, 1919. Serial No. 321,977. 8 Claims. (Cl. 29—87.1.)



1. A tool of the class described, comprising separated parallel elongated members adapted to receive a series of coiled springs in compressed relation and to hold the same compressed, and means arranged on said members for guiding the same in their introduction into the position of discharge of the springs therefrom.

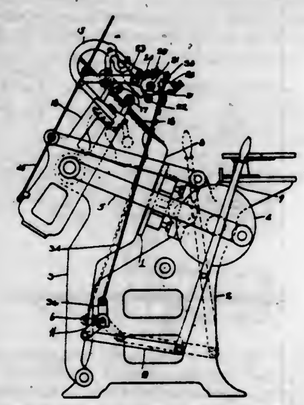
1,352,158. GARMENT-PRESSING DEVICE. JAMES F. THOMAS, Clarinda, Iowa. Filed Jan. 2, 1919. Serial No. 260,241. 7 Claims. (Cl. 100—57.)



1. A garment press comprising a crease clamp consisting of two leaves hinged together at one edge and means for holding said leaves closed, and electric heating means for said leaves extending along the hingedly connected edges thereof.

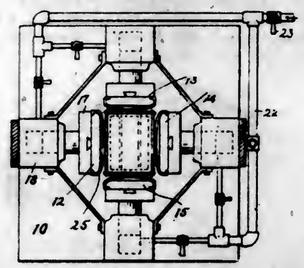
5. A garment press comprising a crease clamp formed of two sections abutting end to end and means for detachably connecting said sections, electric heating coils carried one by each section of said clamp, wiring connected to one of said coils for supplying the current, a pair of terminals for each coil positioned at the inner ends of said clamp sections, the terminals of one coil coacting with those of the other to complete the circuit of said coils when said sections are connected, an insulator from which the terminals of said one coil project, said insulator having a recess between said terminals and a bore parallel with said terminals leading from said recess to the outer end of the insulator, a stem rotatable in said bore and having a head located in said recess, and a bridge plate mounted on said head and adapted to bridge between said terminals of the one coil when the other coil is disconnected therefrom.

1,352,159. INKING MECHANISM FOR PRINTING-PRESSES. RALPH S. TYLER, Cleveland Heights Village, Ohio, assignor to The Chandler and Price Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 25, 1919. Serial No. 292,137. 6 Claims. (Cl. 101—341.)



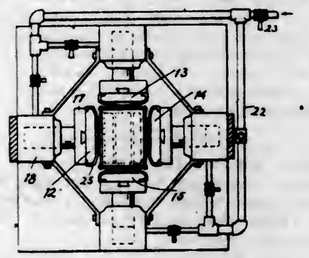
1. In a platen printing press provided with a throw-off adapted to shift the bed of said press without interrupting operation of the platen, the combination with an ink fountain mounted above the inking disk of said press, said fountain including an ink-feeding roller, a ratchet wheel connected therewith, an oscillatory arm, and a pawl on said arm adapted to progressively rotate said wheel; of connections between said arm and the roller frame of said press adapted to operate the former in unison with the latter; a disk adapted to shroud said wheel and thereby limit the operative effect of said pawl; and means adapted to position said disk.

1,352,160. APPARATUS FOR FORMING STORAGE-BATTERY JARS AND THE LIKE. THEODORE A. WILLARD, Cleveland, Ohio. Filed Aug. 9, 1915. Serial No. 44,375. 8 Claims. (Cl. 18—19.)



1. In an apparatus for forming vessels from plastic material, a mandrel, a plurality of plungers arranged opposite the mandrel and adapted to compress plastic material in sheet form between the plungers and the mandrel, and material squeezing devices carried by said plungers and movably mounted thereon for shaping the corners of the vessel and for uniting the material of the sheets at the corners.

1,352,161. METHOD OF FORMING HARD-RUBBER STORAGE-BATTERY JARS. THEODORE A. WILLARD, Cleveland, Ohio. Original application filed Aug. 9, 1915, Serial No. 44,375. Divided and this application filed Sept. 12, 1919. Serial No. 323,258. 7 Claims. (Cl. 18—56.)



1. The method of forming hard rubber storage battery jars which comprises placing uncured rubber in sheet form around the sides and over the end of a mandrel, applying pressure simultaneously and uniformly over all parts of each robber covered face of the mandrel, relieving the pressure, and then vulcanizing the jar on the mandrel.

1,352,162. PRODUCTION OF SUBSTANTIALLY PURE CARBON AND THE LIKE. ROGER WILLIAMS, Providence, R. I., assignor to Nitrogen Products Company, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 24, 1918. Serial No. 213,507. 11 Claims. (Cl. 252.)

9. The process of producing ashless carbon which comprises converting carbon monoxid to carbon dioxid while causing a precipitation of substantially pure carbon therefrom at a temperature below 700° C., in part at least by means of a mass of catalytic material, and agitating said mass to favor said conversion.

1,352,163. COATED FABRIC AND PROCESS OF PRODUCING THE SAME. JOHN A. WILSON, Elizabeth, N. J., assignor to The Duratex Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 19, 1919. Serial No. 346,160½. 8 Claims. (Cl. 91—70.)

1. The process of producing a waterproof fabric, consisting in coating a fabric with rubber, applying a liquid coating constituting a clear vulcanizing varnish, embossing said coated fabric, and then vulcanizing both said coatings simultaneously.

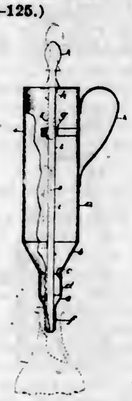
7. A waterproof fabric composed of a textile fabric, a coating of rubber, and a coating of vegetable drying oil and sulfur, both of said coatings being embossed and vulcanized simultaneously on the textile fabric.

1,352,164. REPAIRED TIRE. CHARLES W. YELM, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a Corporation of Colorado. Filed Mar. 11, 1920. Serial No. 365,030. 2 Claims. (Cl. 152—17.)



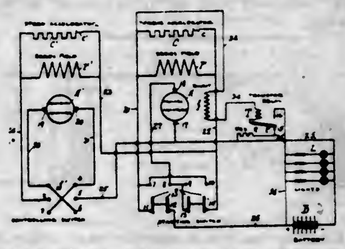
2. In combination, a worn casing, a repair tire applied thereto, and a layer of rubberized compound establishing a bond therebetween, said layer being unvulcanized before putting into use, and of such consistency that it fills any unevenness in the adjacent faces of the parts and of such character and thickness that the bond is maintained during road use.

1,352,165. BOTTLE-FILLER. GIUSEPPE AGRILLO, Brooklyn, N. Y. Filed June 16, 1920. Serial No. 389,381. 1 Claim. (Cl. 226—125.)



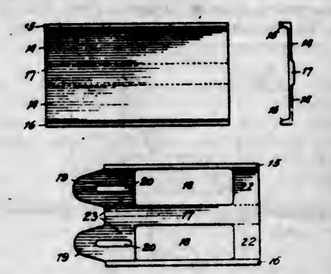
In a pulp producer and bottle filler, the combination consisting of a cylindrical vessel provided with a funnel shaped portion and nozzle integral therewith, a removable cap provided with a conical shape and depending nozzle, a plunger rod guide with enlarged opening arranged within the cylindrical vessel aforesaid near its upper end, a plunger rod guide arranged on the top of the cylindrical vessel aforesaid, and a manually operated plunger rod substantially as described.

1,352,166. BATTERY-CHARGING AND STARTING SYSTEM FOR AUTOMOBILES. CHARLES E. F. AHLM, Cleveland Heights, Ohio. Filed Oct. 31, 1918. Serial No. 260,441. 15 Claims. (Cl. 172—239.)



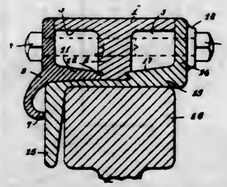
1. A generating unit having a series field winding, a shunt field winding in combination with a resistance and a battery, and a transfer relay adapted to transfer current through the shunt winding either through the resistance or battery.

1,352,167. MANUFACTURE OF YOKES FOR RAILWAY DRAFT-GEARS. HARRY T. ANDERSON, Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1919. Serial No. 305,075. 4 Claims. (Cl. 29—164.)



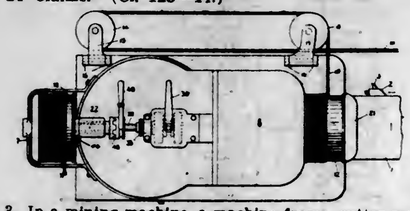
4. That improvement in the manufacture of yokes for railway draft-gear which consists in folding a blank comprising a web, longitudinal marginal flanges, and a central thickened zone along longitudinal lines to bring the flanges into abutting relation, cutting draft-gear openings in the web, trimming one end of the blank, forging reinforcements adjacent the trimmed end and cutting key-slots adjacent said ends.

1,352,168. VEHICLE-WHEEL. ALFRED S. BALDWIN, Syracuse, N. Y. Filed Sept. 14, 1915. Serial No. 50,594. 1 Claim. (Cl. 295—8.5.)



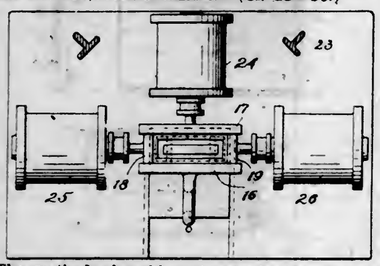
The combination of a road wheel including a demountable tire rim section mountable upon one side of the felly and having a flange lapping the side of the felly, fastening means extending transversely through the felly to hold the rim section in position, a rail tire having a flange lapping the other side of the felly and coacting with said fastening means, and a peripheral flange adapted to seat on the demountable rim section, substantially as and for the purpose described.

1,352,169. MINING-MACHINE. ALBERT BALL, Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed July 26, 1909, Serial No. 509,579. Renewed Nov. 26, 1919. Serial No. 340,799. 24 Claims. (Cl. 125—14.)



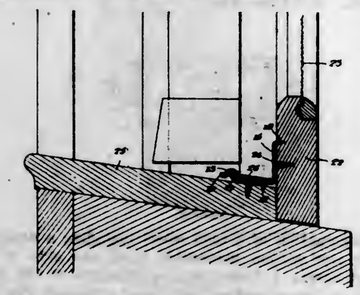
3. In a mining machine, a machine frame, cutter mechanism carried thereby, a rope winding drum rotatable on a horizontal axis on said frame for pulling the frame laterally, a coaxially disposed rope winding drum on said frame for retarding the rear end of said frame, a coaxially disposed driving motor carried on said frame between said drums, and driving connections between the rear end of said motor and each of said drums.

1,352,170. METHOD OF MAKING RUBBER STORAGE-BATTERY JARS. HARRY L. BOYER, Trenton, N. J., assignor to Joseph Stokes Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Feb. 23, 1917. Serial No. 150,346. 5 Claims. (Cl. 18—56.)



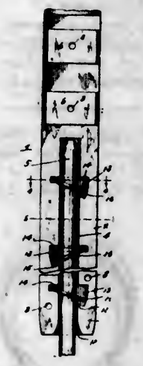
1. The method of making storage battery jars which comprises placing sheets of uncured rubber over the end and around the sides of a rectangular core with the edges of the sheets overlapped, applying pressure by flat pressure applying devices simultaneously to the sides and end of the jar thus formed on the core, removing the pressure and vulcanizing the jar on the core.

1,352,171. WINDOW-SCREEN CATCH. JOSEPH BENSON BRADLEY, Miami, Fla. Filed Jan. 3, 1920. Serial No. 349,137. 1 Claim. (Cl. 292—76.)



A window screen catch consisting of a striker plate having a flat body portion provided with an opening to receive a fastener, and with one bent edge extending in one direction to provide latch engaging means and with a bent edge extending in the opposite direction and sharpened, and a latch plate having an opening to receive a fastener and an angular sharpened edge at one end, said latch plate having an angularly projecting latch arm provided with a bent edge at its free extremity and with a transverse rib adjacent to said edge forming a channel thereunder to receive the latch engaging edge of the striker plate as described.

1,352,172. DRILL-RETRIEVER. JARVIES DANIEL BRANDON, Lancaster, Ohio. Filed Jan. 15, 1920. Serial No. 351,734. 3 Claims. (Cl. 294—102.)



1. A drill retriever comprising a body portion having a longitudinally extending open ended bore formed therein, said bore being longitudinally intersected by a plurality of ring sockets, and a plurality of angularly disposed clamping rings loosely positioned in said sockets and situated substantially in alinement with said bore, whereby said rings will be enabled to frictionally grip and retain the shank of a tool positioned within said bore.

1,352,173. MILK-BOTTLE CARRIER. WILLIAM CHESTER CAMPBELL, Denver, Colo. Filed Apr. 24, 1919. Serial No. 292,282. 3 Claims. (Cl. 215—2.)



1. A milk bottle carrier, comprising a closed loop, larger at one end than the other, the two ends being bent toward each other, the opening in the larger end being of sufficient size to allow the top of a milk bottle to pass through while the opening in the smaller end is too contracted for such passage, but large enough to receive the neck of the bottle just below the top, the opening in the part between the bent ends being also large enough to receive the neck just below the top, but of less width than the outside diameter of the top.

1,352,174. PRODUCTION OF AMMONIA. JOHN COLLINS CLANCY, New York, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 23, 1916. Serial No. 86,078. 4 Claims. (Cl. 23—21.)

2. The process of producing ammonia which comprises passing a gaseous mixture containing nitrogen and hydrogen under high pressure in contact with a catalytic agent which comprises an alkali metal cyanamid.

1,352,175. PROCESS OF OBTAINING THE CYANOGEN COMPOUND OF AN ALKALI METAL. JOHN COLLINS CLANCY, Freeport, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed July 13, 1917. Serial No. 180,331. 1 Claim. (Cl. 23—13.)

The process of producing an alkali cyanid which comprises effecting a cyanid forming reaction of free nitrogen upon the carbonate of an alkaline earth metal by initially admixing a cyanid with said carbonate, reacting upon the alkaline earth metal cyanid produced, with the carbonate of an alkali metal to reform said carbonate of an alkaline earth metal and to form the product sought, and extracting the latter from the former.

1,352,176. PROCESS OF AND MEANS FOR FORMING NITROGENOUS COMPOUNDS. JOHN COLLINS CLANCY, Freeport, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Sept. 1, 1917. Serial No. 189,290. 31 Claims. (Cl. 23—1.)

1. The process of producing a carbonitrogenous compound which comprises effecting a nitrogen fixing reaction by subjecting a carbo-nitrogenous catalyzer to free nitrogen and to a carbonaceous gas capable of acting as the source of the carbon for the carbo-nitrogenous compound to be formed.

21. A gaseously expanded, catalytically-active carbo-nitrogenous substance.

1,352,177. AMMONIA SYNTHESIS CATALYST AND METHOD OF MAKING SAME. JOHN COLLINS CLANCY, Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed June 25, 1918. Serial No. 241,758. 12 Claims. (Cl. 23—28.)

1. As an article of manufacture, a catalyst for the synthesis of ammonia from its elements, comprising a cyanamid compound in highly porous form.

9. The method of obtaining an efficient catalyst for ammonia synthesis, which comprises producing a carbo-nitrogenous material for said catalyst at a low temperature in particularly reactive condition through the intermediacy of liquid ammonia as a solvent for a constituent of said material.

1,352,178. AMMONIA SYNTHESIS AND CATALYST THEREFOR. JOHN COLLINS CLANCY, Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 17, 1919. Serial No. 283,012. 30 Claims. (Cl. 23—21.)

1. The process of synthesizing ammonia which comprises forming a catalyst which includes a nitrid-forming metal, the nitrid of which is capable of reacting with hydrogen, at an ammonia-forming temperature, to yield ammonia vapor, said catalyst also including a combination of an alkalinous metal and carbon, which combination is capable, at said temperature, of fixing free nitrogen and thereafter, at the same temperature, of yielding said fixed nitrogen to said nitrid-forming metal, and reacting upon said catalyst at said temperature, with free nitrogen and hydrogen, to form ammonia.

30. A catalyst through the intermediacy of which ammonia may be synthesized from its elements, which comprises an alkalinous metal, intimately associated with carbon, manganese, and iron.

1,352,179. AMMONIA SYNTHESIS. JOHN COLLINS CLANCY, Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Original application filed June 25, 1918, Serial No. 241,758. Divided and this application filed Sept. 8, 1919. Serial No. 322,420. 13 Claims. (Cl. 23—21.)

1. The process of synthesizing ammonia from its elements which comprises effecting said synthesis at a temperature below 550° C. by subjecting hydrogen and nitrogen under pressure to the influence of a catalytic compound which includes an atom of carbon united to two atoms of nitrogen, said compound being one produced at a temperature less than 550° C. and having a tendency to dissociate, in part at least, when subjected to a current of nitrogen and hydrogen at the same temperature at which said synthesis is effected, but at atmospheric pressure, the pressure aforesaid to which the nitrogen and hydrogen are subjected when in contact with said catalyst being such as to overcome said tendency and stabilize said compound while yet leaving it catalytically active.

1,352,180. PRODUCTION OF AMMONIA. JOHN COLLINS CLANCY, Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Original application filed Mar. 23, 1916, Serial No. 86,078. Divided and this application filed Jan. 14, 1920. Serial No. 351,360. 6 Claims. (Cl. 23—21.)

1. The process of producing ammonia which comprises passing a heated gaseous mixture, under pressure, containing nitrogen and hydrogen, in contact with a catalytic agent which comprises a cyanamid composition in which cobalt is included as a base-acting constituent.

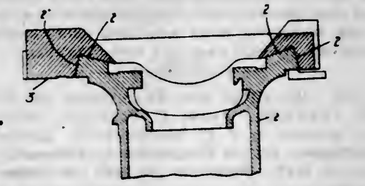
1,352,181. PRODUCTION OF AMMONIA. JOHN COLLINS CLANCY, Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Original application filed Mar. 23, 1916, Serial No 86,078. Divided and this application filed Jan. 14, 1920. Serial No. 351,361. 4 Claims. (Cl. 23—21.)

1. The process of producing ammonia which comprises passing a heated gaseous mixture containing nitrogen and hydrogen under high pressure in contact with a catalytic agent which comprises a cyanamid composition in which manganese is included as a base-acting constituent.

1,352,182. PRODUCTION OF AMMONIA. JOHN COLLINS CLANCY, Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Original application filed Mar. 23, 1916, Serial No. 86,078. Divided and this application filed Jan. 14, 1920. Serial No. 351,362. 3 Claims. (Cl. 23—21.)

1. The process of producing ammonia which comprises effecting a reaction between heated nitrogen and hydrogen to synthetically yield said ammonia by passing a gaseous mixture containing said nitrogen and hydrogen under a high pressure in contact with a catalytic composition an active constituent of which is a cyanogen compound having potassium present in the base thereof.

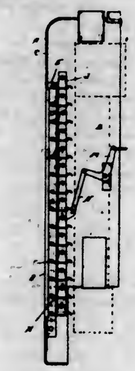
1,352,183. CARRIAGE-BED FOR LATHES. CONRAD M. CONRADSON, Madison, Wis. Filed Jan. 3, 1917. Serial No. 140,339. 1 Claim. (Cl. 82—82.)



The combination with a lathe carriage, of a bed for the carriage having oppositely disposed correspondingly

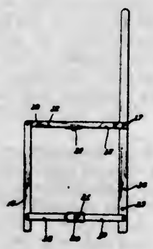
formed guides, the upper surfaces thereof having a slight downward and inward inclination from a horizontal and the side surfaces a slight downward and outward inclination from a vertical plane, said carriage being formed with grooves correspondingly shaped to the guides to receive them.

1,352,184. RADIATOR-SHIELD. HOWARD H. CRAWFORD, Detroit, Mich., assignor to Detroit Motor Appliance Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 18, 1916. Serial No. 120,863. 11 Claims. (Cl. 257—132.)



1. The combination with a radiator core, of a shell forming the regular outer finishing piece for said core, having an open panel for exposing the air and water tubes and being extended beyond the front plane of the same, and shutters mounted and operable within said shell between the front face thereof and the front face of the core.

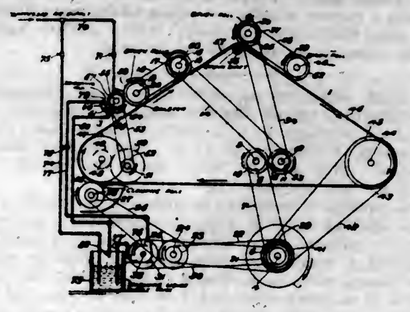
1,352,185. FOLDING CHAIR. SANDOR FEDOR, Oxford Furnace, N. J. Filed Oct. 22, 1919. Serial No. 332,411. 1 Claim. (Cl. 155—141.)



In a folding chair, the combination with the back and legs thereof, of a transversely divided seat, a hinge connecting the elements of said seat, said hinge permitting folding, hinged braces pivotally attached to said legs, rectangular tubular slides engaging and locking said braces when in extended position, said slides having slots formed upon one side, and projecting pins located upon the rear legs, engageable in the mentioned slots whereby said seat and legs are held when in a folded position.

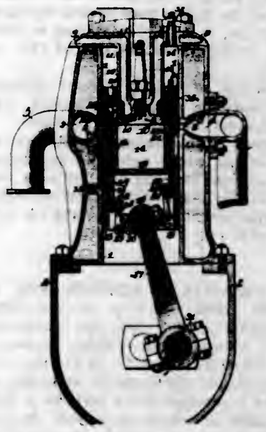
1,352,186. MACHINE FOR SEASONING OR FINISHING LEATHER. JAMES U. FLANAGAN, Wilmington, Del., assignor to F. F. Slocomb & Co., Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Nov. 13, 1917. Serial No. 201,741. 20 Claims. (Cl. 91—40.)

2. The combination of a leather seasoning machine, a season liquid pan therefor, a feed roll rotatably mounted in said pan, a brush roll coacting with said feed roll, and means for conducting compressed air into said liquid below the level thereof.



15. In a leather finishing machine, a skin carrying apron, means to actuate it, means comprising a rotatable crown shaft located above and between the outer portions of said apron for producing a crown or bend in said apron, a brush roll for initially applying seasoning liquor to said skin, a second brush roll in proximity to said crown, a pan for the seasoning liquor, and means for pneumatically agitating the contents of said pan.

1,352,187. INTERNAL-COMBUSTION ENGINE. GEORGE BALDWIN GERAU, Miami, Fla., assignor of one-half to Sol L. Smith, Williamsburg, Ky. Filed Mar. 8, 1918. Serial No. 221,246. 6 Claims. (Cl. 123—47.)



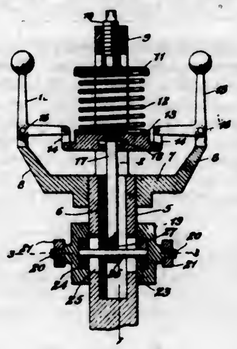
1. An internal combustion engine, comprising a cylinder with an inward extension, supporting a spark plug and defining an annular space, a piston partially working in the annular space, having a depressed head coöperating with the extension and defining an explosion chamber; and an insulated contact plug engageable by a portion of the piston in the annular space, to complete a primary electrical circuit and produce a spark at the plug in the secondary branch of the circuit.

1,352,188. TRESTLE-JOINT. EDGAR BIRD GILES, Los Angles, Calif. Filed Apr. 7, 1920. Serial No. 373,927. 6 Claims. (Cl. 304—5.)



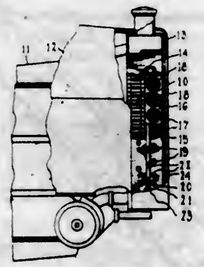
1. A trestle joint comprising two relatively adjustable socket sections; means for fixing said socket sections to the side of the trestle-back, and adjustable means for clamping said socket sections upon a trestle leg.

1,352,189. FLY-BALL GOVERNOR. MAX HAEBERLEIN, Mountain Lakes, N. J. Filed July 5, 1919. Serial No. 308,853. 3 Claims. (Cl. 264—15.)



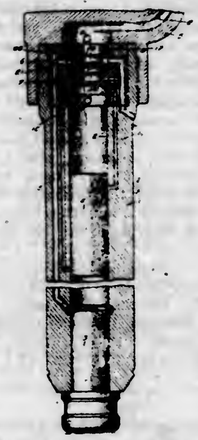
1. In a governor, a rotatable spindle, fly ball levers mounted on said spindle, a collar freely slidable longitudinally upon the spindle in immediate juxtaposed relation thereto, but normally free from static frictional contact with the spindle, speed control means connected to said collar, and means connected to the interior of the collar and to the fly ball levers to shift said collar upon the rotating spindle and actuate the speed control means.

1,352,190. RADIATOR FOR MOTOR-VEHICLES. ALEXANDER C. HAMILTON, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 17, 1918. Serial No. 229,000. 7 Claims. (Cl. 257—132.)



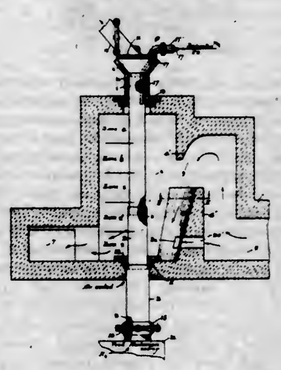
3. In a radiator for motor vehicles, a radiator core; a plurality of plates arranged edgewise relative to said core and extending outwardly therefrom in a forward direction; and a plurality of pivotally supported oscillating shutter blades located within openings provided for them in said plates, and between the forward ends thereof and said core, to thereby control the flow of air through the radiator.

1,352,191. PNEUMATIC TOOL. FRANK L. HENIG, Chicago, Ill., assignor to Henig Engine Co., Chicago, Ill., a Corporation of Illinois. Filed July 14, 1919. Serial No. 310,813. 12 Claims. (Cl. 121—26.)



1. In a pneumatic tool, a cylinder, a piston therein, an inlet for the cylinder, a single exhaust outlet, an exhaust and an intermediate passage in the cylinder, a compression-controlling passage in the cylinder, and a valve having means whereby in one position to connect said exhaust outlet and intermediate passage to the cylinder and in a second position to connect the compression-controlling passage to said exhaust outlet.

1,352,192. PROCESS AND MEANS FOR PRODUCING METALLIC CYANIDS. CHARLES P. HIDDEN, Providence, R. I., assignor to Nitrogen Products Company, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 18, 1918. Serial No. 262,925. 17 Claims. (Cl. 23—13.)

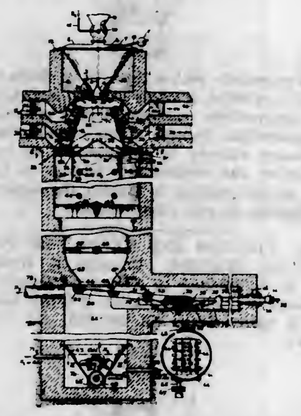


1. Apparatus for converting an oxygen compound of an alkali metal into alkali metal cyanid, which comprises a furnace having therein a continuously downwardly feeding retort in an intermediate portion of which the charge feeding through said retort is subjected to heat treat-

ment, said furnace having means for unequally heating said intermediate portion to develop copious formation of said cyanid only well down toward the lower end of said portion, while yet gradually and substantially uniformly heating said charge during its downward travel through said intermediate portion toward said lower end, and provisions for abruptly cooling the cyanized charge directly upon its emergence from said lower end, said provisions including means to introduce a current of nitrogen into said retort for passage upward through said charge.

10. A process of forming alkali metal cyanid, which comprises subjecting a mass containing carbon, alkali metal carbonate and catalytic material, while in the presence of free nitrogen, to heat treatment, while effecting substantially continuous movement of said mass along a determined path, so regulating the temperature of, and the atmosphere around, said mass, during said movement as to preserve said carbonate and substantially prevent formation of said cyanid therefrom, during the greater part of said treatment, relatively suddenly changing the temperature of said mass and the atmosphere therearound, to favor the formation of said cyanid, and substantially directly thereafter cooling the non-gaseous products of said reaction to prevent loss of said cyanid by volatilization.

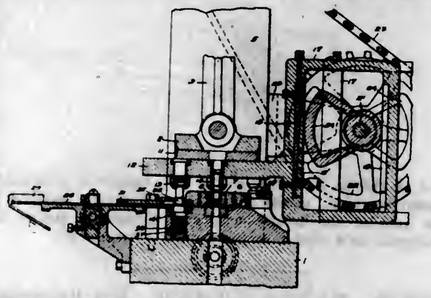
1,352,193. PROCESS FOR FIXING ATMOSPHERIC NITROGEN. CHARLES P. HIDDEN, Providence, R. I., assignor to Nitrogen Products Company, a Corporation of Rhode Island. Filed July 5, 1919. Serial No. 308,772. 20 Claims. (Cl. 23—13.)



1. In the art of fixing nitrogen by cyanizing a porous charge, constituents of which are capable of combining with free nitrogen to form a cyanid and carbon monoxid,—the improvement which consists in first internally heating said charge, treated as a batch, substantially to cyanid-forming temperature, by direct gaseous convection, the gas employed to carry heat into the pores of said charge being incapable of supporting cyanid-forming reaction, then passing into said charge substantially pure nitrogen preheated to a temperature at which said reaction will occur, and again changing the atmosphere in the pores of said charge by passing relatively cool nitrogen therethrough, to sweep out the carbon monoxid formed by said reaction while lowering the temperature of the batch being treated, below that at which carbon monoxid can deleteriously react upon the cyanid present in said batch.

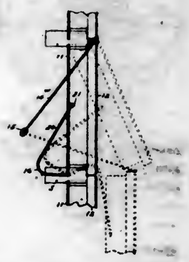
1,352,194. MACHINE FOR MAKING CARTRIDGE-SHELLS. LESLIE E. HOOKER, Lowell, Mass. Filed Apr. 6, 1918. Serial No. 227,026. 4 Claims. (Cl. 207—6.)

1. A machine for extruding tubes from cup-shaped blanks, comprising the combination, with the die-holder and reciprocating plunger, of a slide guided on the bottom of the plunger, a cam for reciprocating said slide, means to drive said cam in timed relation with the plunger, an extruding punch and a trimming punch carried by said



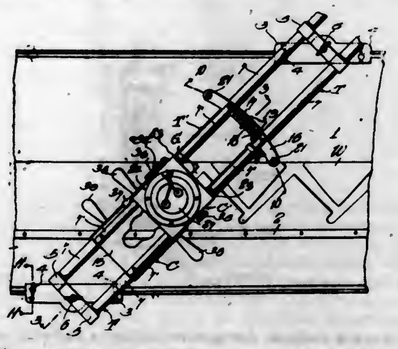
slide, a die mounted in said die-holder, and a pocket into which the blanks are fed successively and from which they are lifted by the extruding punch.

1,352,195. SECTIONAL BOOKCASE. HARRY BELL HUNT, Foremost, Alberta, Canada. Filed Dec. 29, 1919. Serial No. 348,137. 6 Claims. (Cl. 45—1.)



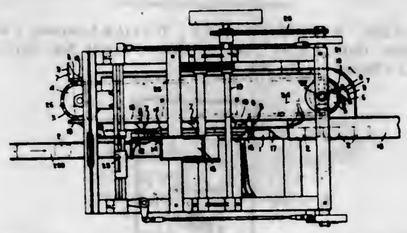
1. In a sectional bookcase, a casing having an open side, a door forming a closure for said opening, pivoted rods connecting corresponding side corners of said door with the corresponding ends of said casing, a rod pivoted at its ends to substantially the centers of opposite ends of said door and extending rearwardly and outwardly parallel with said ends and curved forwardly and extending around the front lower edge of said casing and with the aforesaid rod forming supports adapted to permit of said door sliding to a plane parallel with said opening.

1,352,196. ELECTRIC ROUTING-MACHINE. SAMUEL HUNTER, Bellevue, Pa. Filed Apr. 21, 1919. Serial No. 291,525. 6 Claims. (Cl. 144—136.)



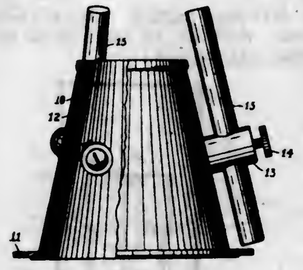
1. A routing machine comprising a track and means for holding it in operative relation to the work, a carriage slidable along said track, a second track pivotally mounted on said carriage for horizontal movement, a second carriage slidable on said second track, and a routing tool carried by said second carriage.

1,352,197. MACHINE FOR SEALING CARTONS. HARRY L. JOHNSON, Boston, Mass., and MORRIS RAYMER, Battle Creek, Mich., assignors to Percy E. Ginn, Boston, Mass. Filed Apr. 1, 1918. Serial No. 225,878. 5 Claims. (Cl. 198—8.)



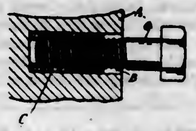
1. In a carton-sealing machine, the combination with a guideway, of an endless chain element extending longitudinally thereof, a sprocket wheel at the entering end of said guideway around which said chain passes, a plurality of pushers pivotally connected to said endless chain and by which cartons are propelled along the guideway, said pushers being constructed to fold back against the chain, and means carried directly by the sprocket wheel to positively position each pusher in its operative position relative to the chain.

1,352,198. X-RAY CONE. HECTOR P. MACLAGAN, Park Ridge, Ill., assignor to McIntosh Battery and Optical Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 21, 1918. Serial No. 255,213. 7 Claims. (Cl. 250—34.)



1. In combination, a tubular shield for the local application of X-rays, and rods projecting from the end of said shield for engaging the surface treated.

1,352,199. BOLT-ANCHOR. JOSEPH KENNEDY, Richmond Hill, N. Y., assignor to The Clements Co., New York, N. Y., a Corporation of New York. Filed Aug. 20, 1917. Serial No. 187,064. 2 Claims. (Cl. 72—105.)



1. The method of anchoring a threaded element which consists in forming a recess in the body to which the threaded element is to be anchored, inserting a deformable sleeve of relatively soft ductile material in said recess and then outwardly expanding said sleeve by holding the inner end of the sleeve against inward longitudinal movement and holding at least a part of the wall of the bore of the sleeve against inward lateral movement, and applying inward longitudinal pressure to the outer end of the sleeve, whereby said sleeve is brought into tight engagement with said body, and thereafter screwing the threaded element directly into the bore of the sleeve.

1,352,200. BOLT-ANCHOR. JOSEPH KENNEDY, Richmond Hill, N. Y., assignor, by mesne assignments, to The Orsbee Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 20, 1917. Serial No. 187,065. 3 Claims. (Cl. 85—2.4.)



1. Means for anchoring a bolt or other fastening device in an aperture in a wall or other building construction, comprising a plug of hard metal having a flange and a smaller non-tapering portion, said flange forming an outwardly facing shoulder, a similar plug having a flange and a smaller non-tapering portion, said flange forming an inwardly facing shoulder, and a separate independent deformable hollow sleeve of relatively soft material arranged between said shoulders and fitting over the smaller non-tapering portions of the plugs, and means for moving said plugs toward each other to thereby cause outward expansion of the sleeve by longitudinal pressure of said shoulders thereon.

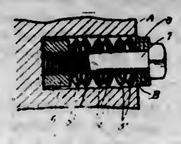
2. Means for anchoring a bolt or other fastening device in an aperture in a wall or other building construction, comprising an internally threaded plug of hard metal having a flange and a smaller non-tapering portion, said flange forming an outwardly facing shoulder, a similar plug provided with a central clearance hole having a flange and a smaller non-tapering portion, said flange forming an inwardly facing shoulder, and a separate independent deformable hollow sleeve of relatively soft material arranged between said shoulders and fitting over the smaller non-tapering portions of the plugs, and a bolt adapted to pass through the clearance hole in one of said plugs and to engage the threads of the other plug arranged to move said plugs toward each other to thereby cause outward expansion of the sleeve by longitudinal pressure of said shoulders thereon.

3. Means for anchoring a bolt or other fastening device in an aperture in a wall or other building construction, comprising an internally threaded plug of hard metal having a flange and a smaller portion, said flange forming an outwardly facing shoulder, a similar plug provided with a central clearance hole having a flange and a smaller portion, said flange forming an inwardly facing shoulder, and a pair of independent deformable hollow sleeves of relatively soft material arranged between said shoulders and fitting over the smaller portions of the plugs, the outer ends of said sleeves fitting against said shoulders and with their inner ends projecting beyond the smaller portions of the plugs, beveled inwardly and abutting against each other, and a bolt adapted to pass through the clearance hole in one of said plugs and to engage the threads of the other plug.

1,352,201. BOLT-ANCHOR. JOSEPH KENNEDY, Richmond Hill, N. Y., assignor, by mesne assignments, to The Orsbee Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 20, 1917. Serial No. 187,066. 4 Claims. (Cl. 72—105.)

1. Means for anchoring a member in an aperture in a wall or other body comprising a pair of washers of deformable material in the aperture transversely bent to reduce their external dimension and placed with substantially similar surfaces facing each other, and means for

pressing said similar surfaces together by longitudinal pressure to flatten the washers within the aperture to



thereby obtain a double toggle grip on the wall of the aperture.

1,352,202. HATCH-COVER. KNUT KNUTSON, Bergen, Norway. Filed Feb. 11, 1919. Serial No. 276,378. 8 Claims. (Cl. 114—201.)



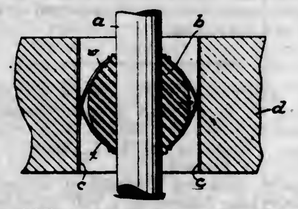
1. A hatch cover comprising a hatch cover frame for connection with a hatch coaming and a corrugated plate secured to said cover frame and extending from side to side of said frame arch-shaped in section and the corrugations arranged transversely of the arch.

1,352,203. FENCEPOST. GEORGE L. LARIMORE, Oklahoma, Okla. Filed Aug. 26, 1919. Serial No. 319,855. 1 Claim. (Cl. 256—58.)



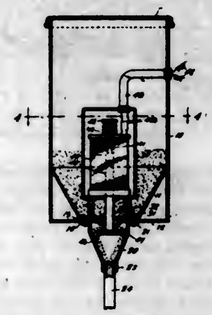
A fence post comprising a cement body, a reinforcing bar therein having one edge projecting beyond the surface of the body and having its lower part curving inwardly, and entirely inclosed by the base of said body and prongs on said projecting edge for receiving the fence wires.

1,352,204. YIELDABLE BEARING FOR CENTRIFUGAL MACHINES. MEREDITH LEITCH, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 8, 1919. Serial No. 270,138. 9 Claims. (Cl. 64—48.)



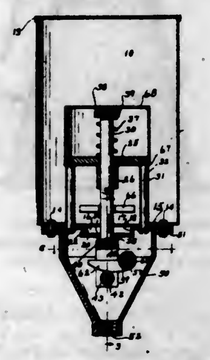
7. In a yielding support for a rotatable spindle, the combination with the spindle, of a bearing guiding the spindle and presenting a sphere-like surface, a spring support presenting an inner cylindrical surface, and two sets of spring fingers anchored on the support, one set being curved downward and inward and contacting with the lower part of the bearing and the other set being curved upward and inward and contacting with the upper part of the bearing, so that, as the spindle moves away from its central position the points of contact of the fingers on the side toward which the spindle moves approach the center of bearing, thereby shortening the effective length of the fingers and causing them to offer relatively great resistance to further movement.

1,352,205. SANDING DEVICE. WILLIAM LINTERN, Cleveland, Ohio. Filed Apr. 3, 1919. Serial No. 287,209. 12 Claims. (Cl. 291—23.)



1. In a sanding device, the combination of a receptacle having a discharge orifice, a valve below the orifice and movable downwardly to open the same, a housing within the receptacle, a member extending from within the housing to the valve for operating it, and electromagnetic means within the housing for operating said member.

1,352,206. SANDING DEVICE. JOHN B. LINTERN, Cleveland, Ohio. Filed Jan. 29, 1920. Serial No. 354,969. 20 Claims. (Cl. 291—36.)

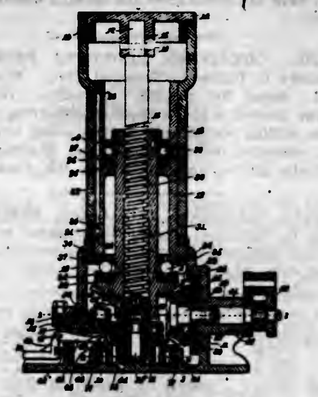


1. In a device of the character described, the combination of a receptacle having a discharge orifice, a member movable through the orifice, a closure for the orifice on said member below the orifice, means within the receptacle for urging the member upwardly, and means below the receptacle for moving the member downwardly.

1,352,207. LIFTING-JACK. WALTER E. LOMBARD, Arlington, Mass. Filed Mar. 26, 1919. Serial No. 288,863. 39 Claims. (Cl. 254—103.)

1. In a lifting jack, the combination of a non-revoluble lifting screw; a revoluble nut for moving said screw endwise; driving-mechanism for said nut including means

for positively actuating said nut in one direction only; means for preventing end movement of said nut; and

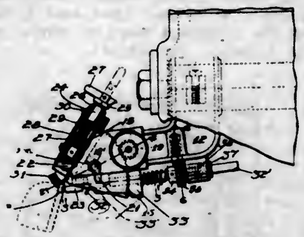


means for controlling the rotation of said nut during the lowering operation.

1,352,208. METHOD OF PRODUCING OXID OR OXIDS OF MANGANESE. BENJAMIN F. LOVELACE, Baltimore, Md. Filed Apr. 24, 1919. Serial No. 292,390. 7 Claims. (Cl. 204—9.)

7. A process of producing an oxid or oxids of manganese comprising electrolyzing with a manganese containing anode in a single compartment cell at a temperature below 35° C. a solution of ammonium carbonate.

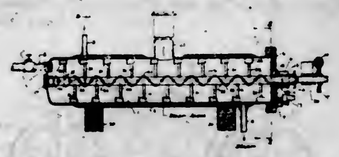
1,352,209. SOLE-EDGE-TREATING MACHINE. ANDREW J. MCCORMACK, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 2, 1918. Serial No. 260,819. 9 Claims. (Cl. 12—32.)



1. In a machine for treating the edge and top marginal faces of a shoe sole, the combination with the edge and top tools and a holder therefor, and means for fixing the adjustment of one tool in the holder with relation to the other tool, of means detachably connecting the adjustable tool with the adjustment determining means and permitting the tool to be removed and replaced without disturbing the adjustment.

1,352,210. APPARATUS FOR RECOVERING MATERIAL FROM SOLUTION. WILLIAM D. MOUNT, Saltville, Va., assignor to Nitrogen Products Company, Providence, R. I., a Corporation of Rhode Island. Filed June 27, 1918. Serial No. 242,331. 3 Claims. (Cl. 127—9.)

1. In apparatus for treating a solution to recover the solute therefrom, the combination of a cylindrical casing, means to support said casing substantially horizontally, means to heat said casing to hasten the evaporation of the solvent therein, combined agitating and unloading means in said casing capable of being driven rotarily in either of two directions, said means having elements, which when driven in one direction tend to agitate the mass being treated by driving portions thereof back and forth between adjacent pairs of said elements and when

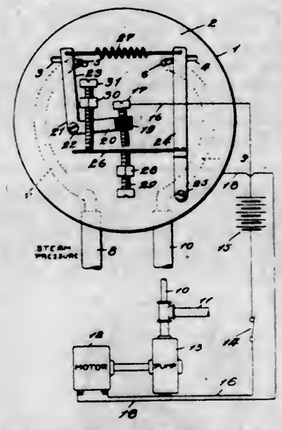


oppositely driven act to unload said casing from one end thereof, means to drive said combined means in either of said directions as required for agitating or unloading, and a removable closure for said end at which the casing is unloaded.

1,352,211. METHOD OF PRODUCING SODIUM BICARBONATE AND HYDROGEN. ADRIAAN NAGELVOORT, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Feb. 7, 1920. Serial No. 357,042. 6 Claims. (Cl. 23—22.)

1. The improvement in the effectuation of the ammonia soda process which comprises reacting upon ammoniated brine with carbon dioxid diluted with hydrogen to prevent undue development of heat and favor the formation of relatively large crystals of sodium bicarbonate, while simultaneously separating said carbon dioxid from said hydrogen, and collecting said hydrogen preparatory to using the same in an ammonia synthesizing operation.

1,352,212. CONTROLLING DEVICE FOR ELECTRIC CIRCUITS. EDWARD C. NEWCOMB, Scituate, Mass., and LEWIS L. SCOTT, St. Louis, Mo., assignors to Standard Engineering Company, St. Louis, Mo., a Corporation. Filed Jan. 31, 1919. Serial No. 274,222. 9 Claims. (Cl. 200—81.)

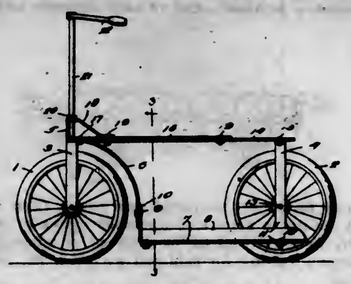


6. A circuit-controlling device having two members actuated independently by forces developed by different agencies, an electric circuit controlling the action of one of said forces, and differential make-and-break contact mechanism for said circuit actuated by said members and regulated by said controlled force.

1,352,213. CHILD'S VEHICLE. MICHAEL J. O'MEARA, Anderson, Ind. Filed Oct. 2, 1919. Serial No. 327,895. 4 Claims. (Cl. 280—87.5.)

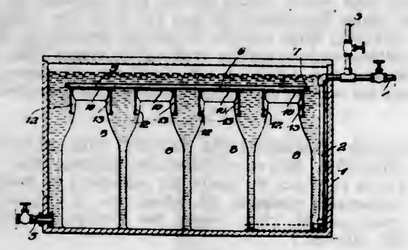
3. In a child's vehicle, the combination of alined front and rear wheels, forks for said wheels, a frame rigidly

connecting the forks, a bracing head member mounted on the front fork and having a brace extension attached to the aforesaid main frame, horisontally extending twin



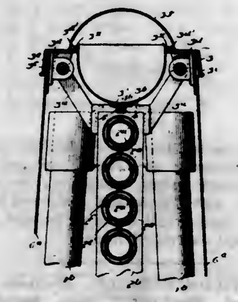
steps on either side of the rear wheel and positioned a considerable distance below the axle, rear fork extensions to which the rear portion of the rear steps are attached, and means supporting the forward end of the twin steps.

1,352,214. MACHINE FOR PASTEURIZING MILK AND OTHER LIQUIDS. GEORGE E. PAGE, Rochester, N. Y., assignor of one-half to Paul C. Zaenglein, Rochester, N. Y. Filed Oct. 8, 1917. Serial No. 195,283. 3 Claims. (Cl. 126—272.)



3. A pasteurizing apparatus comprising a receptacle provided with means for supplying fluid to the bottom thereof and also with a draining means, a plurality of containers in said receptacle, and a cover provided with a plurality of hoods for said containers having walls extending below the tops of the containers, said cover being supported in spaced relation to said containers to form an air seal for said containers.

1,352,215. LIQUID-TREATING APPARATUS. LEROY S. PROUTS, Canton, Ohio, assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio, a Corporation of Ohio. Filed June 16, 1916. Serial No. 104,128. 16 Claims. (Cl. 257—184.)

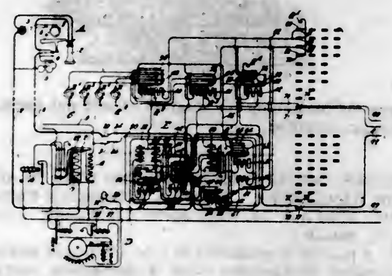


3. A liquid distributer formed with a discharge opening and a flow wall extending from the discharge opening in the direction of its axis and disposed in alinement with the side wall of the opening, in combination with a temperature changing medium circulating pipe arranged in position to have the liquid from the opening discharged thereagainst.

1,352,216. OBTAINING PRODUCTS FROM FILMS. WILLETT C. PIERSON, Cleveland, Ohio. Filed Nov. 27, 1917. Serial No. 204,298. 5 Claims. (Cl. 23—24.)

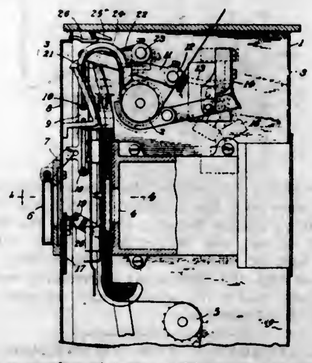
1. The method which comprises dissolving celluloid in acetone, adding water until a thick mass collects in the liquid, removing the thick mass and washing the same, and finally drying and pulverizing the washed mass.

1,352,217. SELECTIVE SIGNALING SYSTEM. WINFRED T. POWELL, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 23, 1916. Serial No. 116,481. 30 Claims. (Cl. 179—17.)



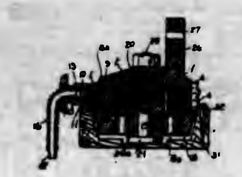
1. In a telephone system, means comprising a selector and connector switch for connecting a calling and a calling line, together with means individual to said selector for selectively signaling the stations on the called line controlled in a preliminary operation of the selector switch separate from the trunk selecting operation thereof.

1,352,218. SAFETY DEVICE FOR MOVING-PICTURE MACHINES. NICHOLAS POWER, Brooklyn, N. Y., assignor to Nicholas Power Company, New York, N. Y., a Corporation of Delaware. Filed June 6, 1916, Serial No. 102,070. Renewed Dec. 29, 1919. Serial No. 348,045. 6 Claims. (Cl. 88—17.)



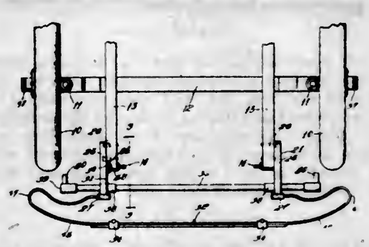
1. In a moving picture machine a gate or wall having a projection aperture to the rear of the path of the film and a plurality of safety shutters mounted on said gate or wall and coöperating with said aperture, means controlled by the driving mechanism of the machine for operating one such shutter, and means controlled by the film itself for operating the other shutter, said last named means comprising a member arranged adjacent the path of film to be engaged and shifted by a departure of the film from its normal path and positive mechanical connections between said part and said shutter.

1,352,219. VIBRATOR. HENRY PRELL, Cleveland, Ohio. Filed May 20, 1918. Serial No. 235,468. 8 Claims. (Cl. 175—338.)



1. A vibrator for use in the preparation of foundry molds, comprising a hollow casing adapted for attachment to the part to be vibrated and provided with an integral central core and an annular cavity surrounding the same, a coil in said cavity, a bolt adjustably threaded into said core and provided with a head forming a stationary abutment, and an armature slidable on said bolt and vibrating between said casing and bolt head.

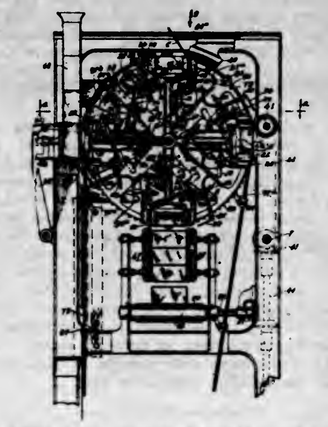
1,352,220. AUTOMOBILE-BUMPER. FRANK R. PROCUNIER, Chicago, Ill., assignor of one-fourth to Jesse C. Stryker, one-fourth to Louis N. Turner, and one-fourth to Louis H. Nissen, Chicago, Ill. Filed Feb. 5, 1920. Serial No. 356,537. 7 Claims. (Cl. 293—55.)



6. In combination with a vehicle having a pair of longitudinal channel frames each of which is provided with a laterally extending boss at its forward end, a bumper arranged forwardly of the frames and adapted to be carried thereby, an means for mounting the bumper upon the frames comprising a pair of brackets, one for each frame, each of which is provided at its rear with a part that underlies the frame, and at its front with another part that rests upon the boss, means for holding each bracket to its associated frame to receive constant support therefrom, a head formed at the forward end of each bracket, there being also a cylindrical bearing therein, and duplex bumpers carried by the brackets, one bumper having its ends secured to the heads of the two brackets and the other bumper being rotatably journaled within the bearings of the two brackets and means carried by said rotatable bumper adapted for projection between the forward wheels of the vehicle to prevent the same from being steered, substantially as described.

1,352,221. MACHINE FOR SEALED WRAPPED PACKAGES. JAMES D. REIFSNYDER, Philadelphia, Pa., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 6, 1916. Serial No. 118,668. 17 Claims. (Cl. 93—7.)

1. A machine for adherently affixing adhesively coated wrapper blanks of the notched or cornered type to the exterior walls of a package in the manufacture of sealed wrapped packages, comprising in combination means for advancing a package to bring a wall thereof into contact with a selected adhesively coated section of a positioned wrapper blank to adherently affix said section of the blank to said wall the direction of advance being at substantial right angles to the plane of the positioned blanks means for thereafter adherently affixing adjacent adhesively coated side covering sections of the blank to two side walls of the package devices for adherently affixing other adhesively coated portions of the blank to opposite ends of the package and means for thereafter adherently affixing adhesively coated end label portions of the blank to the opposite end walls of the package to cover said walls.



2. A machine for affixing adhesively coated wrapper blanks of the notched type to the exterior walls of a package, in the formation of sealed wrapped packages, comprising a traveling carrier, a plurality of packages, holding devices movable with said carrier, means for successively advancing adhesively coated wrapper blanks and positioning them in coöperative relation with said packages holding devices, means for successively feeding packages to be wrapped in a direction substantially transverse to the plane of the positioned blank to locate a side wall of each package in direct contact with a selected adhesively coated portion of a positioned wrapper blank and thence into said holding devices, means for advancing the carrier, means for adherently affixing portions of the blank in position contacting with the remaining side walls of the package, and means for adherently affixing adhesively coated marginal portions of the blank across each of the four edges of the end walls of the packages.

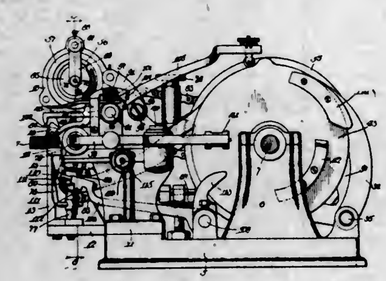
3. A machine for affixing adhesively coated wrappper blanks of the notched type, providing a plurality of marginal laps, to the exterior walls of a package in the formation of sealed wrapped packages comprising a traveling carrier, a plurality of package holding devices movable with said carrier, means for successively advancing adhesively coated wrapper blanks and positioning them in coöperative relation with said package holding devices, means for successively feeding packages to be wrapped in a direction substantially transverse to the plane of the positioned blank to locate a side wall of each package in direct contact with a selected adhesively coated portion of a positioned wrapper blank and thence into said holding devices, means for advancing the carrier, means for wrapping the body portion of the blank about the package and completely covering the side walls with the longitudinal blank edges in adhesively connected superposed position, and means for adherently affixing to the end walls of the package adhesively coated marginal laps adjacent each edge of each end wall.

4. A machine for affixing adhesively coated wrapper blanks of the notched type, providing a plurality of marginal laps, to the exterior walls of a package in the formation of sealed wrapped packages, comprising a traveling carrier, a plurality of package holding devices movable with said carrier, means for successively advancing adhesively coated wrapper blanks and positioning them in coöperative relation with said package holding devices, means for successively feeding packages to be wrapped in a direction substantially transverse to the plane of

the positioned blank to locate a side wall of each package in direct contact with a selected adhesively coated portion of a positioned wrappper blank and thence into said holding devices, means for advancing the carrier, means for wrapping the body portion of the blank about the package and completely covering the side walls with the longitudinal blank edges in adhesively connected superposed position, means for positioning against each end wall an end covering wrapper section, and means for folding marginal laps against the package walls in position to provide continuous adhesive connection between the edges of said end portions and the body portion of the wrapper.

5. A machine for affixing adhesively coated wrapper blanks to the exterior walls of a package in the manufacture of sealed wrapped packages, comprising in combination a traveling carrier, a plurality of platens mounted upon and movable with said carrier, a set of wrapper blank folding and affixing devices associated with each platen, a package support or rest arranged adjacent the path of movement of the platens, means cooperating with but independent of the carrier for successively positioning the adhesively coated wrapper blanks in coöperative relation with said package support or rest and one of said platens, means for imparting a step by step advancing movement to the carrier, and means for temporarily locking the wrapper blank advancing means against movement to effect an accurate register of a selected wall of the blank with relation to each associated platen and the package support or rest.

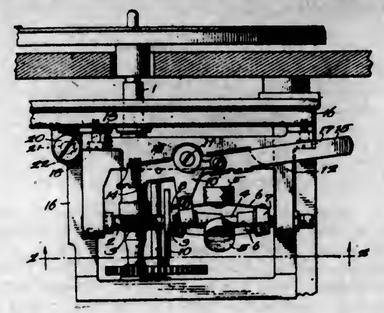
1,352,222. LEATHER-STITCHING MACHINE. RAYMOND H. RUDOLPH, Elgin, Ill., assignor of one-half to Charles Friedman, Chicago, Ill. Filed May 22, 1919. Serial No. 298,969. 13 Claims. (Cl. 112—38.)



1. In a lock stitch sewing machine, the combination of a work support, a reciprocatory awl operating from the under side of the work, a longitudinally tensioned shaft for supporting the awl, a notched needle operating from the upper side of the work, a cam operated lever engaging one end of the shaft to bodily move the shaft and awl to feed the work and to position the awl opening therein in line with the needle, a rotary shuttle disposed above the plane of the needle and rotating about an axis parallel with the direction of feed of the work, and means cooperating with the needle to engage the loop of thread carried thereby and position the same for entrance by the shuttle.

1,352,223. SPEED-GOVERNOR. HENRY G. SAAL, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,553. 5 Claims. (Cl. 188—187.)

1. Speed governing mechanism including a motor operated worm wheel; a frame for supporting the worm wheel; a bracket pivotally connected with said frame at a point remote from the axis of said worm wheel and affording an axis of swinging movement which is substantially parallel with the axis of said wheel; a governor mounted upon said bracket inclusive of a worm shaft in mesh with the worm wheel, a rotatable brake member upon the shaft, and a second brake member complemental to the rotatable brake member; and a lever carrying the



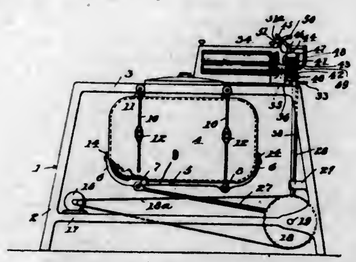
second aforesaid brake member and itself also pivotally mounted upon said bracket.

1,352,224. TURNTABLE FOR PHONOGRAPHS. HENRY G. SAAL, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 350,887. 1 Claim. (Cl. 274—39.)



A disk record supporting turn table having a depending rim and provided with sheet material covering the top surface of the turn table and the outer surface of the turn table rim and extended to engage the inner surface of the turn table rim; and a clamping ring of such diameter as to have tight clamping engagement with the sheet material to force it into firm engagement with the inner surface of the turn table rim.

1,352,225. WASHING-MACHINE. WILLIAM H. SARGENT, St. Louis, Mo., assignor to Wayne Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 14, 1919. Serial No. 289,988. 2 Claims. (Cl. 259—75.)

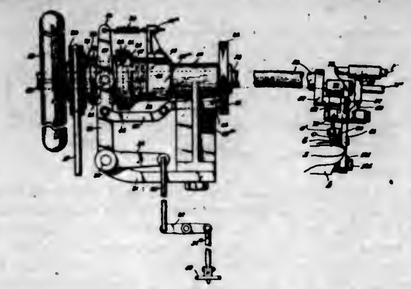


1. In a washing machine, the combination of a frame having elevated side bars, a tube, a cradle on which said tube rests, links suspended from said elevated side bars and attached at their lower ends to said cradle enabling said cradle to swing to and fro in a substantially vertical plane, turnbuckles in said links for adjusting the length thereof, and means attached to said cradle for swinging the same.

1,352,226. STOPPING AND STARTING MECHANISM. AUGUST R. SCHOENKY, Somerville, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed Mar. 22, 1919. Serial No. 284,451. 7 Claims. (Cl. 112—219.)

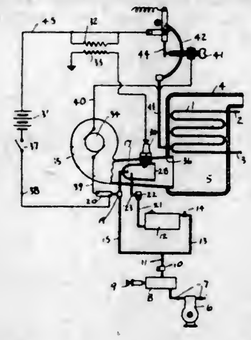
1. In a machine for stitching shoe uppers to sole lips, chain stitching mechanism comprising a curved hooked

needle operating so that the needle stands in the work at the completion of each stitch, a frictional stopping means controlled to cause stoppage with the needle in the



work, and a slip connection associated with said stopping means such as to permit reversal sufficient to extract the needle.

1,352,227. COMBUSTION SYSTEM. LEWIS L. SCOTT, St. Louis, Mo., assignor to Standard Engineering Company, St. Louis, Mo., a Corporation. Filed Mar. 6, 1918. Serial No. 220,856. 10 Claims. (Cl. 158—29.)



1. A hydrocarbon burner comprising a plurality of liquid fuel spraying and mixture forming atomizers, an ignition device coöperating directly with one of said atomizers, and means for forcing additional atmospheric air into the mixtures from all of said atomizers after the ignition of the mixture in one of said atomizers by said ignition device.

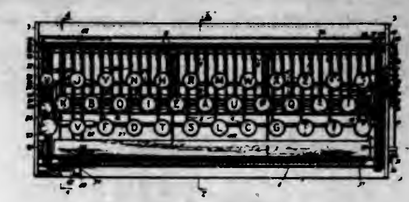
1,352,228. BRUSH. STUART SPEIRS, New York, N. Y. Filed Feb. 12, 1920. Serial No. 358,218. 4 Claims. (Cl. 15—35.)



1. The combination with a brush having a wooden back, of an abrasive block yieldingly carried thereby.

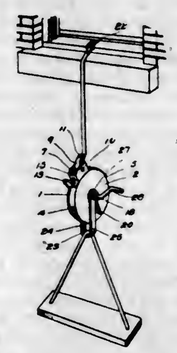
1,352,229. TYPEWRITING-MACHINE. EDWARDS B. STUART, Chicago, Ill. Filed Dec. 13, 1918. Serial No. 266,569. 7 Claims. (Cl. 197—1.)

1. A typewriting machine, comprising a stationary platen, a carriage arranged to travel over said platen from side to side thereof, a type-carrier supported in said carriage, said type-carrier being shiftable in said carriage in a direction transverse to the direction of travel of said carriage, and a plurality of type keys each arranged to



differentially shift the type-carrier in said carriage and impart a step-by-step motion to said carriage.

1,352,230. PORTABLE FIRE-ESCAPE. PIETRO P. VESCOVI, Ottawa, Kans. Filed May 9, 1919. Serial No. 295,842. 8 Claims. (Cl. 227—22.)



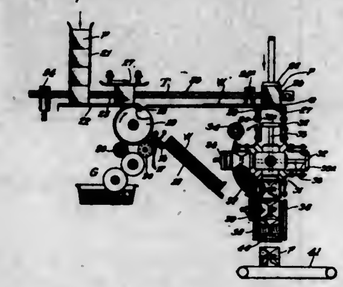
1. A fire escape comprising a casing having a braking face therein and provided with an opening, a flange about the opening, a flexible connection coiled within the casing, the periphery of which is adapted to bear against the braking face, a drum upon which the flexible connection is wound, trunnions on the drum projecting through alining, elongated slots in the casing, a braking face rigid with the flange surrounding the opening, a pivoted braking member adjacent to the braking face on the flange and having a curved, portion engaging the flexible connection, and a yoke carried by the trunnions.

1,352,231. PADDING. WILLIAM H. WEHRENBERG, La Crosse, Wis. Filed Aug. 8, 1918. Serial No. 248,888. 4 Claims. (Cl. 139—9.)



1. An article of the character described consisting of a pair of superposed layers embodying transversely extending strips of batting, weave cords for retaining the strips of each layer in close relation with other and providing square portions, and longitudinally extending reinforcing strands engaged through the alined square portions and transversely of the strips.

1,352,232. METHOD OF PRODUCING SEALED WRAPPED PACKAGES. WILLIAM A. WEIGHTMAN and CHARLES H. NITSCH, Philadelphia, Pa., assignors to Stokes & Smith Company, Summerdale, Pa., a Corporation of Pennsylvania. Filed June 29, 1917. Serial No. 177,832. 18 Claims. (Cl. 93—7.)



1. The method of covering a packet with an adhesively coated wrapper blank having a body portion formed of integrally connected sections substantially corresponding to the several longitudinal faces of the packet and also having marginal extensions adapted to cover the lateral faces of the packet, which consists in assembling the blank and packet with a longitudinal face of the packet in contact with an adhesively coated corresponding section of the blank adjacent one end of the blank and during continuous travel of both blank and packet, and thereafter applying the remaining sections of the blank successively to the longitudinal faces of the packet and the marginal laps successively to the lateral faces of the packet.

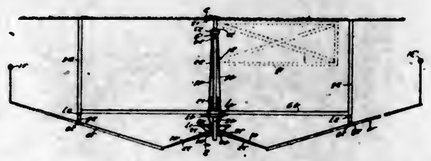
2. In the art of adherently applying a wrapper blank to an article, the method of assembling a thin and flexible blank adapted to cover a plurality of faces of the articles, which consists in continuously moving the article along a predetermined path, continuously supporting said article during its movement in said path, and inserting said blank between the article and its support during travel with a face of the article in contact with an adhesively coated portion of the blank and with said blank extending in the direction of article travel beyond said face of the article along said support.

3. In the art of applying a cover blank to an article, the method of applying a wrapper blank to a plurality of longitudinal faces of the article which includes supporting the article during its continuous travel along a fixed path on a plurality of supports, positioning the cover blank on one of said supports, applying adhesive to said blank while on said support, and bringing said blank into engagement with said article while both blank and article are supported by said support.

4. In the art of producing sealed wrapped packages, the method of assembling the packet and cover blank during travel thereof, which consists in positioning the cover blank on a support and adhesively coating a surface thereof, and while so supported, bringing a face of the packet into registration contact with the complemental portion of the adhesive surface of the blank to produce the assembly, whereby the major portion of the blank is free from adhesive connection with the packet in the direction of packet travel, and thereafter applying the unattached portions of the blank adhesively to the remaining faces of the packet.

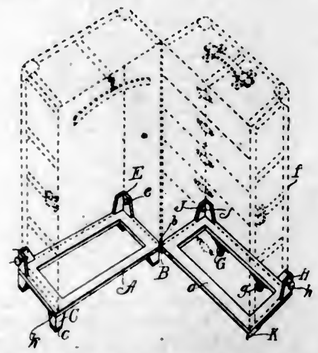
5. In the art of producing sealed wrapped packages, the method of assembling the packet and cover blank, which consists in supporting the cover blank during adhesive-application and moving the support to advance the cover blank with its adhesive surface uppermost, and advancing the packet into contact with the advancing blank and with the face of the packet in registration with the complemental portion of the adhesive surface of the blank to produce the assembly during the advancing movements, and with the blank support serving to support both blank and packet during assembly.

1,352,233. GATE. WILLIAM EUGIN WHITE, Manor, Tex. Filed Mar. 28, 1917. Serial No. 157,977. 1 Claim. (Cl. 39—35.)



In a gate, the combination with a gate frame, of a rotatable hinge stile pivoted vertically in the frame and carrying a cross arm at its upper end, a gate carried by said hinge stile, a lever vertically mounted at one side of the gate frame, a latch carried by the gate frame for engagement with the gate, and a cable connected with the latch and passing to the lever and from the said lever to the cross arm, the said cable having a sliding engagement with the lever whereby in the opening of the gate the latch is caused first to disengage the gate and the gate thereafter swung to open position.

1,352,234. WARDROBE-TRUNK OPENER AND CARRIER. WILMOT W. WHITTEN, Washington, D. C., assignor of one-half to Edwin Guthrie, Washington, D. C. Filed Oct. 28, 1919. Serial No. 333,926. 4 Claims. (Cl. 280—37.)



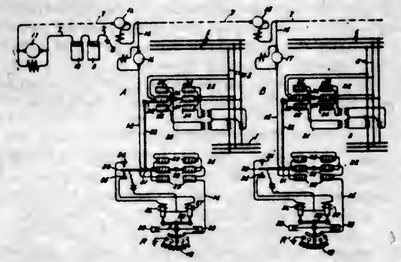
3. The combination with a wardrobe trunk, of detachable frames for supporting the trunk on end, one part of the trunk resting on one frame and the other part on the other frame, said frames having portions pivotally connected whereby said frames may be closed together or opened horizontally correspondingly moving the parts of the trunk, one of the frames having casters, and one frame having feet adapted to engage the floor frictionally.

1,352,235. TOTALIZING POWER SYSTEM. LEONARD WILSON, Salt Lake City, Utah, assignor to General Electric Company, a Corporation of New York. Filed Apr. 20, 1918. Serial No. 229,732. 6 Claims. (Cl. 171—34.)

1. A system for totalizing the power supplied at a plurality of stations, comprising a circuit having parallel portions, associated with the respective stations, and a main portion, individual sources of current connected to said parallel portions and means associated with the respective stations and controlled by the power supplied thereat for varying the magnitude of the current in said parallel portions so that it bears a definite relation to the magnitude of the power being supplied at the respective stations associated therewith.

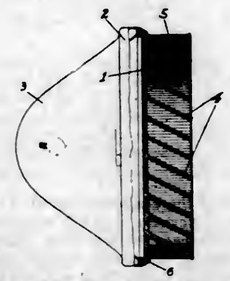
3. A system for totalizing the power supplied at a plurality of stations, comprising a circuit having parallel

portions, associated with the respective stations, and a main portion, means for energizing said circuit, and means, controlled by the power supplied at the respective stations



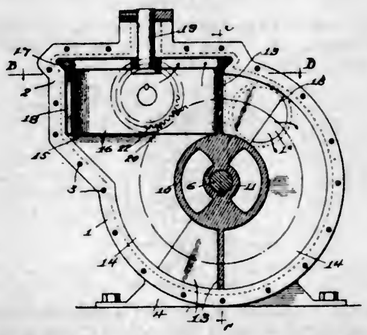
and by the current in said parallel portions associated therewith, for varying the current in said parallel portions in a definite relation to the power supplied at the respective stations.

1,352,236. NON-GLARE LENS FOR HEADLIGHTS. JOHN O. YARDLEY, Stockton, Calif. Filed Aug. 5, 1919. Serial No. 315,467. 2 Claims. (Cl. 240—48.4.)



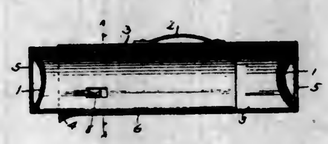
1. In combination with a lens for headlights which comprises a clear glass disk and transverse and parallel plates formed therewith and projecting outwardly therefrom at a downward slant, an endless sheet metal ring positioned about the plates to shield the same, the ring being removably beaded onto the periphery of the disk, the rim of the headlight engaging the beaded portion of the ring to hold the same and the disk in place.

1,352,237. WATER-MOTOR PUMP. MORIEL V. ANDREWS and STEPHEN W. HOLMAN, Marmarth, N. D. Filed Jan. 29, 1920. Serial No. 354,054. 2 Claims. (Cl. 103—44.)



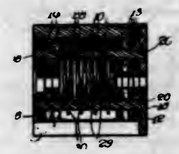
1. In a water motor pump of the character described, a pair of spiral lifting vanes, a cylindrical open end gate revoluble between the vanes on an axis plane perpendicular to the axis plane of the vanes and permitting the vanes to pass through the wall of the gate while the water is passing through the ends of the gate, and means for revolving the vanes and the gate in unison.

1,352,238. AUTOMOBILE-TIRE-CHAIN HOLDER. ERNEST LEMUEL ARTHUR, Pembroke, Va. Filed May 17, 1919. Serial No. 297,815. 1 Claim. (Cl. 220—8.)



In an article of the character described, a pair of cylindrical metallic shells having an open end and fitting one within the other, the other end of the shells being closed by a concaved shell member, the outer shell having a hand strap extending lengthwise thereof and a lip protruding from the open end, the inner shell having a plurality of slots adjacent to its closed end, a plurality of plate springs secured to the inner face of the inner shell and having their free ends working through the slots for engaging the inner face of the outer shell, and a flat bar extending centrally across the closed ends flush with the periphery of the shells so as to form seats and hand grasps for the shells.

1,352,239. LOCK. EDWARD P. BAIRD, Evanston, Ill., assignor to Chicago Cabinet Lock Company, Chicago, Ill., a Corporation of Illinois. Filed May 12, 1919. Serial No. 296,288. 9 Claims. (Cl. 70—46.)



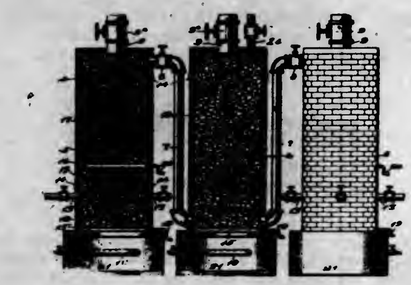
1. In a cylinder lock, the combination of a casing, a rotatable carrier comprising a series of disks within the casing and journaled in the casing and side-bars secured together, and key-operable plate-tumblers transversely slidable in the carrier and into interlocking relation with the casing, the carrier comprising also a disk provided with a stop lug for engaging the casing to limit the rotation of the carrier.

1,352,240. OIL-CLOTH-CUTTING MACHINE. FREDERICK M. BALDWIN, Los Angeles, Calif. Filed Aug. 25, 1919. Serial No. 320,044. 19 Claims. (Cl. 164—73.)



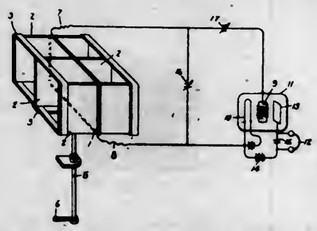
1. A machine for cutting oil cloth and the like comprising a table having a top, means on the top for retaining a roll of cloth thereon, a cutter arranged to travel across the table, means for holding the free end of said roll, and clamping fingers at the cutting line for holding the cloth to the table during the cutting operation.

1,352,241. METHOD OF GENERATING GAS. HOSTON BATCHELOR, Boston, Mass. Filed Feb. 8, 1917, Serial No. 147,483. Renewed Jan. 13, 1920. Serial No. 351,253. 1 Claim. (Cl. 48—214.)



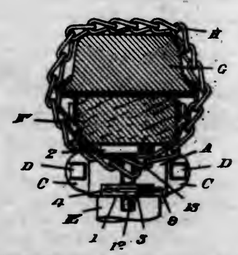
The herein described process of generating gas which consists of alternately heating two separate masses of refractory and porous material, spraying upon such masses a homogeneous mixture of hydro-carbon and H_2O, and conducting the generated gas through a third mass of refractory material which constitutes a common path for the gases from both the first named masses.

1,352,242. WIRELESS RECEIVING APPARATUS. ERNST J. BRAG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 13, 1917. Serial No. 148,400. 3 Claims. (Cl. 250—11.)



1. The method of directive receiving of wireless signals by means of a receiving coil which consists in utilizing said coil as a receiving antenna, rotating the coil in a horizontal plane until the response in receiving apparatus connected thereto is a maximum for the desired signals and at the same time absorbing the energy of undesirable impulses of all frequencies in such a way that they will produce substantially no effect in the receiving coil.

1,352,243. FASTENING DEVICE. ASHLEY L. BISHOP, Bristol, Conn., assignor to The Steel Products Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 27, 1918. Serial No. 268,521. 8 Claims. (Cl. 24—73.)

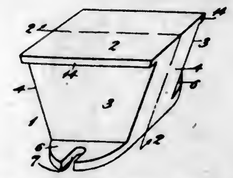


7. Two relatively fixed parts, one of said parts being perforated and the other part being adapted to receive the end portion of the element hereinafter referred to, one of said parts being slotted, in combination with an element adapted to have movement in the perforated part, having some portion at all times located in the perforation thereof and having an end portion normally received by the other part, said element having an annular groove, a catch pivotally mounted in the slotted part and normally extending through a portion thereof into the groove of said element, means for locking said catch in normal position and means for limiting its outward movement.

1,352,244. PROCESS OF DAMPENING LEATHER. FREDERICK J. BLATZ, Wilmington, Del., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 14, 1917. Serial No. 148,677. 1 Claim. (Cl. 91—70.)

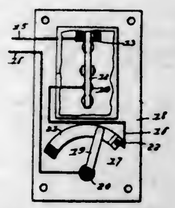
The process of treating leather to effect dampening thereof, which consists in subjecting the leather, while in a flat condition, to water in the form of fine spray in the presence of heat, whereby the body of the leather may be softened by the combined action of heat and moisture.

1,352,245. CONCRETE ANCHOR OR INSERT. CHARLES J. BRANCH, Philadelphia, Pa. Filed May 27, 1916. Serial No. 100,178. 2 Claims. (Cl. 72—105.)



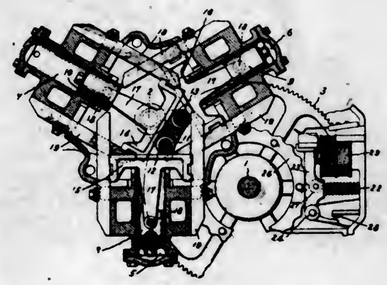
1. In a device of the character stated, a wedge-shaped anchor or insert, comprising a closed body portion, having a closed top member provided with parallel vertical rectilinear side walls, oppositely located rectilinear end walls converging downwardly from said top so as to form an angular nut chamber between said walls, whose internal area increases upwardly and is greatest at its top, oppositely located top anchoring flanges forming a continuation of said top and overhanging said closed vertical walls, slotted bottom anchoring flanges projecting laterally from the bottom of said vertical flanges, an open mouth in the bottom of said body of greater length than width, the longest dimension of said mouth extending at a right angle to said vertical side walls, and a standard nut inserted endwise therein, said nut when turned into a horizontal position being supported upon said inner converging walls at a point above said mouth.

1,352,246. ELECTRIC SWITCH. LAWRENCE E. CARLSON, Huntington, Ind. Filed Nov. 20, 1919. Serial No. 339,485. 1 Claim. (Cl. 219—48.)



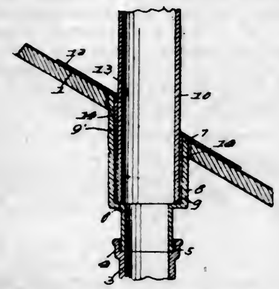
A switch mechanism for lighting systems embodying a base plate, a circuit closer, provided with terminals and a switch arm for connecting the same and means operable from the front of the base plate for actuating the switch arm, an arcuate resistance bar mounted on the base plate and terminally connected with one of said contacts, a blade pivotally mounted at one end of the base plate and having its remaining end bearing upon the resistance bar for movement thereof, and a knob exposed at the front of the base plate and connected to the pivot of the blade, whereby angular movement may be imparted to the latter for the purpose specified.

1,352,247. CONTROLLER FOR ELECTRIC MOTORS. FRANK E. CASE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 21, 1918. Serial No. 255,142. 6 Claims. (Cl. 200—17.)



1. In a circuit controller the combination with a controlling member, of means for operating the same comprising a plurality of pistons, means for applying fluid pressure to said pistons successively and connections between the pistons and the controlling member whereby a complete stroke of each piston advances the controlling member a step and returns another piston to operative position.

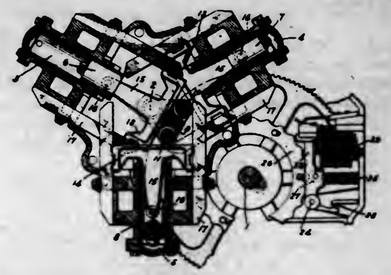
1,352,248. ROOF CONNECTION FOR VENT-PIPES. ENOS E. COAR, South Bend, Ind. Filed Dec. 13, 1917. Serial No. 206,995. 3 Claims. (Cl. 285—31.)



1. A vent pipe fitting for roof connection adapted for concealment below a pitched roof and having an enlarged upper portion in which is received that section of the vent stack projecting above the roof, the said enlarged portion having an inclined upper edge and comprising a plurality of readily separable terminal sections removable to effect a change in the inclination of said upper edge to conform to the pitch of the roof in connection with which the fitting is employed.

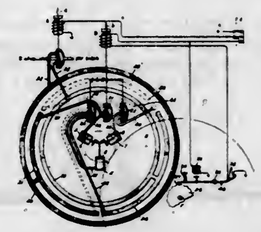
1,352,249. CONTROLLER FOR ELECTRIC MOTORS. ARTHUR T. CROCKER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 28, 1918. Serial No. 259,902. 10 Claims. (Cl. 200—17.)

6. A circuit controller comprising a controlling member, a crank shaft and a crank thereon for driving the same provided with two crank pins in triangular relation with the shaft, and a plurality of fluid actuated reciprocating pistons driving said crank by engaging one of said crank



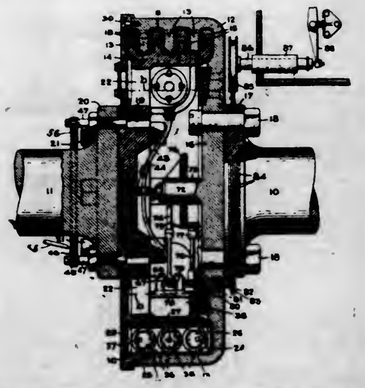
pins and rotating the crank until the other crank pin is similarly engaged.

1,352,250. CONTROLLER FOR ELECTRIC MOTORS. CLARENCE T. CROCKER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 6, 1918. Serial No. 261,332. 22 Claims. (Cl. 121—38.)



1. A circuit controller comprising a controlling member, three fluid actuated reciprocating pistons disposed at angles of 120 degrees from each other for operating the same and two electromagnetically operated valves controlling the admission of fluid under pressure to said pistons to control the direction of rotation of said member and positively stop the same.

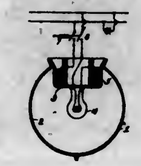
1,352,251. FLEXIBLE COUPLING. EDGAR D. DICKINSON and JAMES WILKINSON, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed May 9, 1919. Serial No. 295,921. 12 Claims. (Cl. 64—96.)



1. In combination, concentric driving and driven members, transverse rows of interleaving axially alined teeth

carried thereby, spring shoes which extend throughout the length of the rows of teeth, and springs engaging said spring shoes.

1,352,252. LIGHTING MEANS. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed May 10, 1917. Serial No. 167,725. 1 Claim. (Cl. 240—1.)



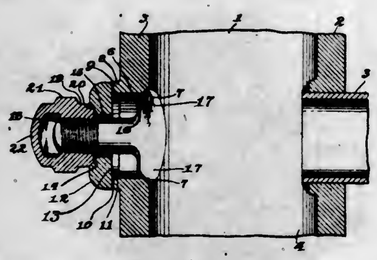
Illuminating means comprising a globe containing a coating of phosphorescent material, a source of light within the globe, and means for providing a magnetic field in the zone of said coating.

1,352,253. ATTACHMENT FOR DIESTOCKS. BRUNO E. EICHENDORFF, San Francisco, Calif. Filed Mar. 22, 1919. Serial No. 284,475. 8 Claims. (Cl. 10—151.)



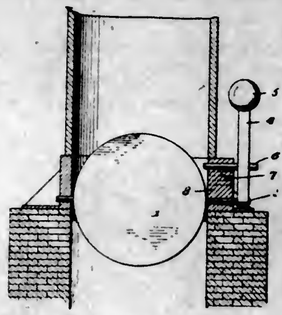
1. The combination with a die stock of a slotted disk; a slide mounted within the disk and arranged to form a squared aperture with the slot in the disk; and means for moving the slide to engage the shank of a tool.

1,352,254. CLOSURE FOR BOILER-HEADERS. VICTOR LEE EMMASON, Philadelphia, Pa. Original application filed May 8, 1919, Serial No. 295,541. Divided and this application filed Nov. 3, 1919. Serial No. 335,562. 9 Claims. (Cl. 220—25.)



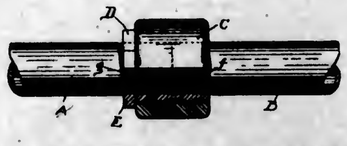
1. In a liquid vaporizer, a manifold comprising front and rear walls, the front walls having an externally flanged hand hole with oppositely disposed recesses inclined to the plane of said flange on the internal rim, a cap, a T-head bolt seated in said recesses and passing through said cap and having an adjustable engagement with said recesses and a nut on said bolt.

1,352,255. SAFETY-DAMPER FOR OIL-STILLS AND THE LIKE. VICTOR LEE EMMASON, Philadelphia, Pa. Original application filed May 6, 1920, Serial No. 379,356. Divided and this application filed May 11, 1920. Serial No. 380,614. 5 Claims. (Cl. 126—287.5.)



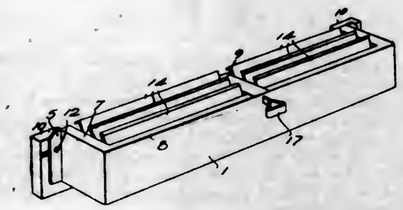
1. In combination with a stack, a damper therein, an operating rod for said damper and a heat destructible element situated in the path of movement of said operating rod and adapted to normally hold said damper in position.

1,352,256. COUPLING FOR METAL PIPES. FREDERIC WM. ERICKSON, East Greenwich, R. I. Filed Apr. 22, 1920. Serial No. 375,661. 3 Claims. (Cl. 285—128.)



1. A coupling to unite the ends of metal conduits comprising a bushing consisting of a plurality of complementary externally threaded members of uniform internal diameter from end to end and internally threaded, the externally threaded portions being also of uniform diameter, and an internally threaded sleeve to engage the external threads of the bushing members and confine said members in engagement with the conduits.

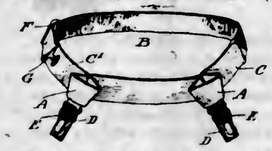
1,352,257. VENTILATOR. CARL EVANS, Battle Creek, Mich. Filed Mar. 22, 1917, Serial No. 156,703. Renewed Oct. 18, 1919. Serial No. 331,754. 2 Claims. (Cl. 98—31.)



1. A ventilator, including a housing having an open front wall and flanges formed on the ends and bottoms thereof, anchoring means adjustably mounted on said end flanges, a partition arranged intermediate the ends of the housing, a plurality of longitudinally disposed slats rotatably mounted in the housing ends and said partition, cranks engaged with the adjacent ends of said slats, and an adjustable bar movable in the partition and loosely engaged with said crank for causing movement of the slats.

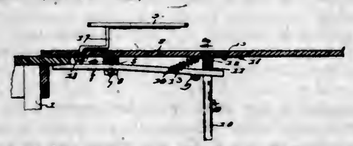
2. A ventilator including a housing having an open front wall, anchoring means on the ends thereof, a plurality of slats rotatably mounted in the top of said casing, cranks engaged with the adjacent ends of the slats, and a bar disposed transversely of the intermediate portion of the casing and formed with a series of recesses loosely engaged over said crank portions and having its free end extending through one side wall of the casing.

1,352,258. METHOD OF MAKING GARTERS. ROBERT GORTON, Brookline, Mass.; Charles W. Noyes administrator of said Robert Gorton, deceased. Filed Oct. 7, 1919. Serial No. 329,073. 2 Claims. (Cl. 241—6.)



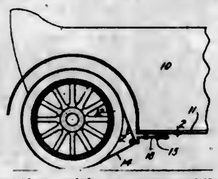
1. The method of forming a garter, which consists in folding the opposite end portions of strip material upon the middle portion thereof, joining the folded portions at each end by a transverse line of stitches, extending the free portion of the strip at each end to form a part of the leg-band, and then flattening the loop at each end and securing it to the free end and to the middle portion of the strip.

1,352,259. IRONING-BOARD. INEZ GRAVES, Seattle, Wash. Filed May 2, 1919. Serial No. 294,349. 1 Claim. (Cl. 68—10.)



A household article of the kind described comprising a board, a pair of clamping plates mounted on the under face of the board so that their one extremity may in conjunction with the board effect a clamping operation upon the edge of a shelf or a table, a leg, formed with a cross bar which is hingedly attached to the board on the under face thereof and which lies between the other extremities of the plates and the board, the leg limited to a substantially perpendicular position with reference to the board but foldable down thereagainst, the cross bar bearing against the plates, a spring having one end connected with the plates, and a wire strand passing between the cross bar and the board and having one end secured to the spring and the other end to the board in the manner and for the purpose herein specified.

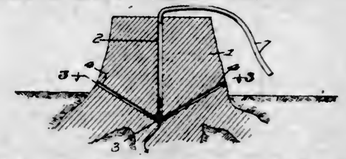
1,352,260. NON-SKID DEVICE FOR MOTOR-VEHICLES. GEORGE GUNTHER, Seattle, Wash. Filed June 12, 1918, Serial No. 239,656. Renewed Feb. 3, 1920. Serial No. 355,959. 5 Claims. (Cl. 305—3.)



1. In combination with an automobile and a driving wheel thereof, an endless belt passing peripherally around the wheel being of greater length than the wheel circumference, a shaft mounted upon the automobile in the central vertical plane of the wheel capable of being longitudinally movable and rotatable or fixed from rotation, and a vertically and horizontally adjustable yoke carrying an idler puller on an axis transverse to the shaft, said pulley being inside said belt

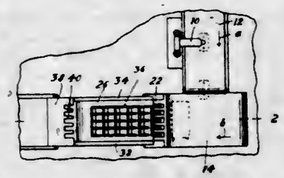
5. In a device of the character described, a bracket carrying member, a bracket comprising two separate parts individually adjustable on said member and one of the parts removable from said member, and a pulley shaft carried by and between said bracket parts.

1,352,261. PROCESS OF BURNING TREE-STUMPS. HAROLD L. HANSON, Butte, Mont., and MARION B. SAWYER, Edmonds, Wash. Filed Nov. 9, 1918. Serial No. 261,843. 2 Claims. (Cl. 110—21.)



1. The process for burning tree stumps, which consists in providing a vertical air passage substantially in the center of the stump, then providing a plurality of flue passages communicating with the air passage and opening on the sides of the stump, then starting a fire in the air passage, and finally forcing a draft of air into the air passage and out through the flues.

1,352,262. CONVEYING AND ELEVATING APPARATUS. HENRY O'B. HARDING, Minneapolis, Minn. Filed Dec. 21, 1918. Serial No. 267,791. 7 Claims. (Cl. 193—8.)



1. A conveying and elevating apparatus comprising means for carrying filled sacks underneath a device for closing the upper ends thereof, means for receiving the closed sacks and carrying them in a direction at an angle to the direction in which sacks are carried by said first-mentioned means, and means for elevating the closed sacks as they are delivered thereto by said second-mentioned means.

1,352,263. CONVEYER. HENRY O'B. HARDING, Minneapolis, Minn., assignor to Washburn Crosby Company, Minneapolis, Minn., a Corporation. Filed Dec. 26, 1918. Serial No. 268,373. 3 Claims. (Cl. 193—4.)

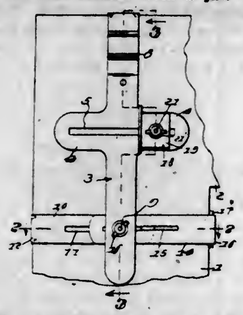


1. A conveyer comprising wheeled standards, a pair of longitudinally extending bars secured to said standards, a table secured to said bars, inclined bracing strips secured at their upper ends to said bars, the lower ends of some of said strips being secured to said standards and the lower ends of the rest of the strips extending into a line beneath the median line of said table, an angle bar secured to said last mentioned strip-ends, an endless belt extending longitudinally around said table with its upper stretch in contact therewith, and means for driving said belt.

1,352,264. SHADE-ROLLER SUPPORT. JOHN HERNACKI, Alexandria, La. Filed Jan. 7, 1919. Serial No. 270,045. 1 Claim. (Cl. 156—24.)

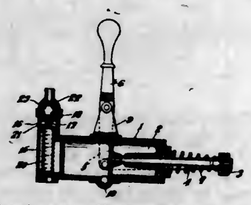
A device of the kind described, comprising a body member designed for vertical positioning on a window frame, a shade roller bracket adjustable on said body member, the

said body member being formed with a jaw terminal designed to over hang the upper edge of the window frame, a transverse member formed with the jaw terminal designed to engage the inner edge of the vertical stile of the window frame, the said transverse member being formed with a plurality of interconnecting holes, a second transverse element formed with a jaw terminal for



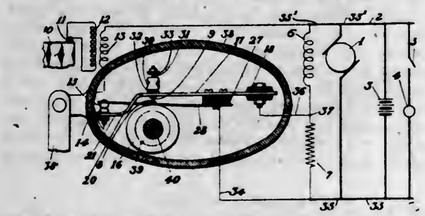
engagement with the outer edge of the vertical stile of the frame, the last said transverse member being formed with a longitudinal slot, a bolt engaged with the body member and passing through any one of the interconnecting holes and through the said slot, and a wing nut attached to the bolt and serving to secure the transverse members and the body portion together.

1,352,265. AIR-EXHAUSTER FOR STEAM-RADIATORS. MARTIN E. HERSHEY, Arlington, N. J. Filed May 15, 1918. Serial No. 234,628. 4 Claims. (Cl. 230—24.)



1. A pump having a cylinder adapted to be in open communication with a radiator or the like, a piston within said cylinder, means for operating the piston, a valve connected with the cylinder, and a thin corrugated metallic tube carrying said valve and adapted to expand upon a rise of temperature within said cylinder to move said valve to its seat.

1,352,266. ELECTRICAL SYSTEM FOR MOTOR-VEHICLES AND THE LIKE. MORRIS HIRSCH, New York, N. Y., assignor to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Apr. 30, 1919. Serial No. 293,719. 12 Claims. (Cl. 290—41.)



2. In electrical systems for motor vehicles in combination, a generator, a vibratory regulator contact therefor, ignition apparatus connected to said generator, said apparatus including breaker contacts, and a single cam or the like for operating both said regulator and said breaker contacts.

1,352,267. FIREARM. LINDLEY D. HUBBELL, Hartford, Conn. Filed Apr. 7, 1920. Serial No. 371,899. 4 Claims. (Cl. 42—3.)



1. In a firearm of the character described, a frame, a breech-slide mounted for reciprocation thereon, a magazine including a follower, a single means for locking the hammer in cocked position and locking the slide in retracted position and interengaging means between said follower and locking means whereby the latter is actuated by said follower.

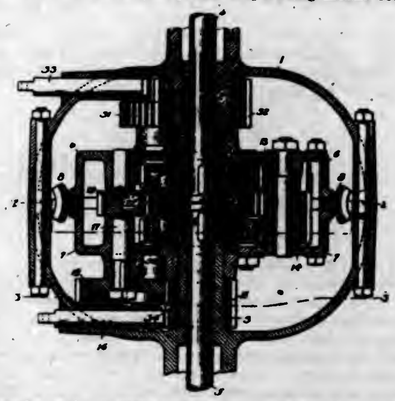
1,352,268. COLLAR-FASTENER. FRANK HYDE, Sioux Falls, S. D. Filed Feb. 19, 1920. Serial No. 359,779. 1 Claim. (Cl. 267—71.)



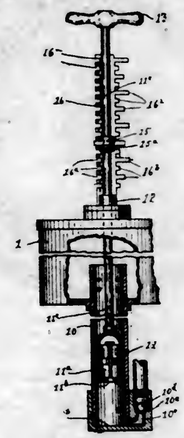
In a collar fastener, a pair of substantially similar members each having a shank with a pin point on the outer end of the shank, the shanks being of substantially rectangular cross section and having their inner ends turned at right angles and formed with eyes which conformably and slidably receive the shank of the opposite member, and a single coil spring to the rear of one shank and engaged over the other shank and between the eyes, each shank being offset adjacent its pin point to form a stop engaging the eye of the opposite shank to restrict contractile movement of the shanks, the front shank being offset rearwardly and the rear shank being offset forwardly to bring the shanks into alinement.

1,352,269. DIFFERENTIAL-GEAR MECHANISM. MAURITZ C. INDAHL, Philadelphia, Pa. Filed Mar. 8, 1916, Serial No. 82,929. Renewed Oct. 16, 1916. Serial No. 126,035. 37 Claims. (Cl. 74—34.)

1. The combination with a pair of driven members and means for connecting said members, said means permitting acceleration in speed of one of said members accompanied by a proportionately diminished speed of the other driven member, of positive operating means for limiting the ratio of differentiation in speed of said members to a predetermined maximum ratio.

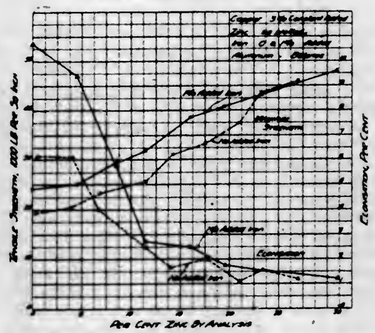


1,352,270. GAGING MEANS. DANIEL H. JEFFERSON, Los Angeles, Calif., assignor to Frank E. Andres, Alhambra, Calif. Filed Sept. 18, 1919. Serial No. 324,287. 4 Claims. (Cl. 221—103.)



4. Gaging means comprising a movable member, adjustable stop means on said member, and an indicating member adapted to receive and position said stop means in a plurality of positions of adjustment; there being means whereby said movable member is limited in its travel by said stop means.

1,352,271. ALLOY. ZAY JEFFRIES and WILLIAM A. GIBSON, Cleveland, Ohio, assignors to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 30, 1919. Serial No. 314,261. 6 Claims. (Cl. 75—1.)

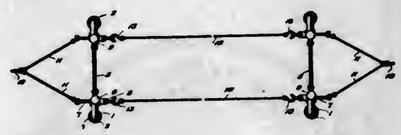


1. An alloy containing aluminum, copper, zinc and iron, the copper content being from 2% to 5%, the zinc content being from 4% to 25%, the iron content being from 0.6% to 1.8%, and the aluminum making up the remainder.

1,352,272. ALLOY. ZAY JEFFRIES and WILLIAM A. GIBSON, Cleveland, Ohio, assignors to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 30, 1919. Serial No. 314,262. 4 Claims. (Cl. 75—1.)

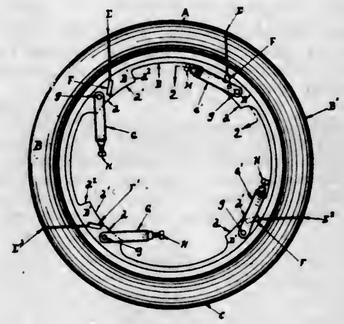
1. An alloy containing aluminum from 4% to 25% zinc, from 2% to 5% of copper, from .5% to 1.5% iron and an appreciable amount of magnesium.

1,352,273. CLOTHESLINE. RALPH D. JOHNSON, Fairbury, Ill. Filed Dec. 1, 1919. Serial No. 341,633. 1 Claim. (Cl. 68—3.)



A device of the class described comprising two pairs of posts, each post having its lower part provided with a spiked end, a pair of cross pieces for holding the posts of each pair in spaced relation, said cross pieces being clamped to the post, eye bolts carried by said post and a pair of clothes lines connected with the eye bolts.

1,352,274. COLLAPSIBLE TIRE-CORE. FRANK L. JOHNSON, Akron, Ohio. Filed Jan. 31, 1920. Serial No. 355,349. 2 Claims. (Cl. 18—45.)



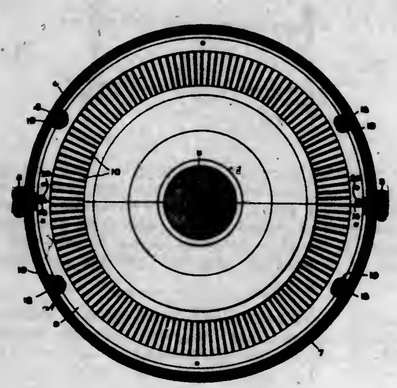
1. In a collapsible tire-core, the combination of a plurality of segments, keys sunk into the adjoining ends of said segments, clevises pivoted on said sections and extending across the adjoining ends of said segments, and set-screws in said clevises adapted to engage the next adjacent segment and clamp the adjoining ends together, substantially as set forth.

1,352,275. WEATHER-STRIP. CHARLES J. JONES, Cheyenne, Wyo. Filed July 29, 1919. Serial No. 313,979. 3 Claims. (Cl. 20—69.)



1. As a new article of manufacture, a weather strip comprising two members, one of said members adapted to be secured to a window frame and the other of said members to a window sash, one of said members having relatively flat longitudinal edges, and a transversely bowed intermediate portion, whereby a spring pressure is had of one strip against the other when in position between the sash and the frame.

1,352,276. ELASTIC-FLUID TURBINE. OSCAR JUNGGREN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 6, 1918. Serial No. 265,639. 18 Claims. (Cl. 253—78.)



1. In an elastic-fluid turbine, a supporting wall, a diaphragm, and means which yieldingly supports the diaphragm in the wall so that it is free to expand and contract radially relatively to the wall.

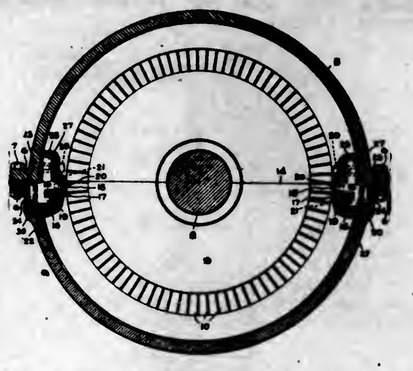
1,352,277. ELASTIC-FLUID TURBINE. OSCAR JUNGGREN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 9, 1919. Serial No. 270,418. 29 Claims. (Cl. 253—78.)



1. In an elastic fluid turbine, the combination of a casing, a nozzle diaphragm which divides the casing into stages, said diaphragm being mounted in spaced relation to the inner wall of said casing, and a ring which connects the diaphragm to the casing and forms a yielding connection for holding the diaphragm in spaced relation thereto whereby it may expand and contract relatively to and independently of the casing.

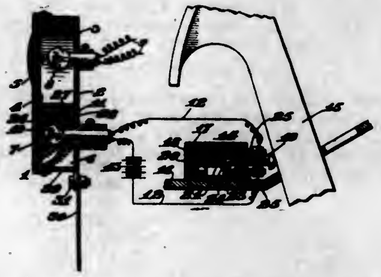
1,352,278. ELASTIC-FLUID TURBINE. OSCAR JUNGGREN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 3, 1920. Serial No. 362,913. 10 Claims. (Cl. 253—78.)

1. In an elastic-fluid turbine, the combination of a supporting wall provided with shoulders adjacent its horizontal axis, a diaphragm of less diameter than the inner diameter of said wall, means connected to said diaphragm and resting on said shoulders for supporting the weight



of said diaphragm, and yielding means which engages said first named means for centering said diaphragm.

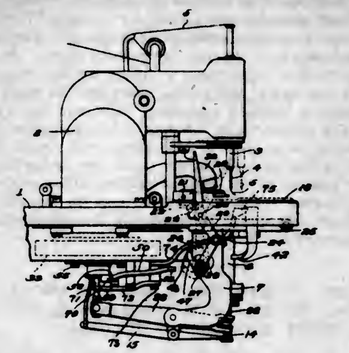
1,352,279. TAIL-LIGHT SIGNAL. JESSE E. KEPPEL, St. Louis, Mo., assignor to International Aerial Navigation Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 30, 1916, Serial No. 122,959. Renewed Apr. 21, 1920. Serial No. 375,650. 3 Claims. (Cl. 40—132.)



1. In a signal apparatus, the combination of a case, a translucent signal member carried thereby, an electric light for illuminating said translucent member continuously to give a continuous signal, a second translucent member below the first named translucent member for giving a special signal and normally inactive, a hood adjacent said second translucent member disposed below said electric light and back of the forward wall of said case so as to leave a space between said hood and said forward wall, the upper and rear side of said hood being a reflector for reflecting the rays from said light down through said space, said case having a window at the under side thereof, through which said reflected rays may pass, and a sign plate carried by said case below said window and receiving the reflected rays passing through said window.

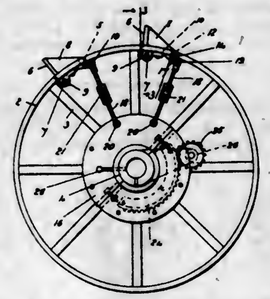
1,352,280. SEWING-MACHINE. JOHN KIEWICZ, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Dec. 12, 1918. Serial No. 266,426. 20 Claims. (Cl. 112—252.)

1. In a sewing machine, the combination with work-holding means and stitch-forming mechanism including upper thread mechanism and under thread mechanism arranged so that when the machine comes to rest a loop of the upper thread is retained by the under thread mechanism, of a movable device adapted by its movement to cut the side of the loop of upper thread that leads to the work and at the same time to draw out a length of under thread from the supply without cutting said thread,



and means to actuate said device after the stitch-forming mechanism comes to rest.

1,352,281. TRACTION-WHEEL. FRANCIS M. KOETZ, Woodstock, Ill. Filed Oct. 25, 1919. Serial No. 333,193. 2 Claims. (Cl. 301—46.)

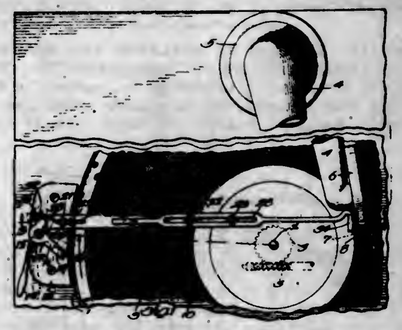


2. The combination, with a traction wheel having a rim provided with rectangular holes and having stops on its underside at the corners at one end of the holes, of bearings secured to the underside of the rim at the other end of the holes, cleats formed of rectangular plates arranged at a right angle to each other and provided with stiffening ribs, said cleats being provided with pivots at their apex portions which engage with the said bearings, the longitudinal plates of the cleats being provided with notches at their corners to permit them to be turned inwardly past the stops, the plates of the said cleats being adapted to engage alternately with the said holes and substantially close them, and the radial plates being adapted to engage with the said stops and means for moving the cleats pivotally and locking them to the wheel rim.

1,352,282. PHONOGRAPH. WINCENT S. KUCKI, Chicago, Ill. Filed Nov. 14, 1918. Serial No. 262,485. 1 Claim. (Cl. 74—46.)

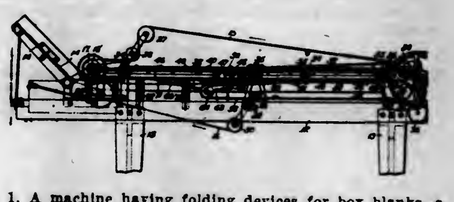
A phonograph having a circular, record supporting, turn table; a swinging brake member having a face initially engageable with the periphery of the turn table upon one side of the line joining the centers of movement of the brake member and the turn table whereby the turn table completes the braking movement of said brake member; a tone arm structure; a bar mounted upon one side of the turn table and overlying the turn table and of adjustable length to define the location of the inner end of the bar which is engageable by the sound box end of the tone arm structure, said bar being mounted to be moved longitudinally of itself by the sound box end of the tone arm

structure at the conclusion of the record reproducing movement of the tone arm structure; and an abutment



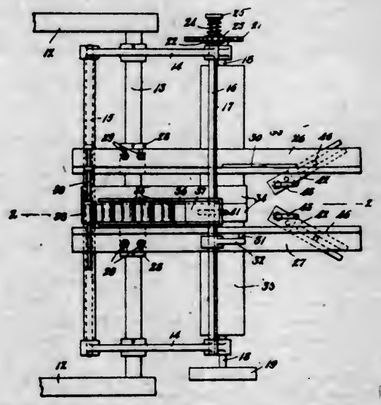
moving with the brake member and engageable by an outer end portion of said bar.

1,352,283. MACHINE FOR MAKING DOUBLE-WALL BOXES. LEON E. LA BOMBARD, Chelsea, Mass., assignor to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Dec. 18, 1916. Serial No. 137,535. 18 Claims. (Cl. 93—52.)



1. A machine having folding devices for box blanks, a pair of coacting carrier belts for causing the blanks to travel while being folded, and a table for a pile of blanks, said table being in position to cause one of the belts to comb the blanks singly from the table.

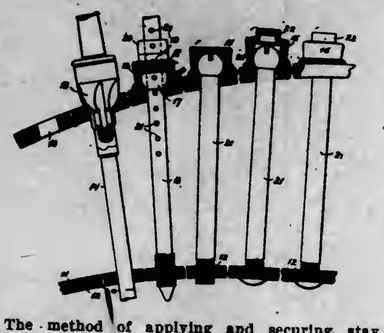
1,352,284. BLANK-FEEDER. LEON E. LA BOMBARD, Chelsea, Mass., assignor to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Apr. 12, 1917. Serial No. 161,432. 9 Claims. (Cl. 271—41.)



2. In a blank feeding mechanism having a hopper for a pile of blanks and a friction feeder for removing the

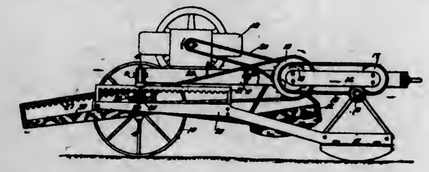
blanks singly therefrom a wheel opposite the front edges of the blanks, and means having a constant tendency to rotate the wheel in a direction to urge said edge portions toward the feeder.

1,352,285. METHOD OF APPLYING AND SECURING STAYBOLT-SLEEVES TO BOILER-SHEETS. FREDERICK K. LANDGRAF, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Aug. 21, 1919. Serial No. 318,923. 5 Claims. (Cl. 29—148.)



1. The method of applying and securing stay bolt sleeves to the outer sheet of a boiler consisting in properly placing the sleeve on and clamping it to said outer sheet by means engaging the sleeve and passing through the bolt holes in both sheets, and welding the sleeve while so held.

1,352,286. TRACTOR. EDWARD E. LARSON, Thompson, Iowa. Filed Mar. 9, 1918, Serial No. 221,490. Renewed Apr. 30, 1920. Serial No. 378,015. 7 Claims. (Cl. 180—8.)



1. A tractor comprising a frame, rolling means supporting one end of the frame, a pair of endless tracks associated with the other end of the frame, a carriage on each of the tracks, means for moving the carriages and the tracks relative to one another, a shoe associated with each of the carriages, and means associated with the shoe for accelerating the movement of the carriage when the shoe is moved from the inoperative into the operative position.

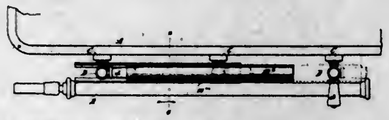
2. A tractor comprising a frame, rolling means supporting one end of the frame, supports for the other end of the frame, tracks for said supports, means for moving the tracks and supports relative to one another whereby the frame is moved on the supports, and means for moving the supports on the tracks at a greater speed than the frame moves, whereby a support can be moved quicker from the inoperative to the operative position than from the operative to the inoperative position.

3. A tractor comprising a frame, rolling means supporting one end of the frame, supports for the other end of the frame, a roller bearing interposed between the supports and the frame, endless tracks for said rolling means of the supports, means for moving said frame and supports relative to one another, and means associated with said moving means for increasing the relative speeds of said frame and supports when said supports and frame are moved in the same direction.

4. A tractor comprising a frame, rolling means supporting one end of the frame, supports for the other end of the frame, means for moving said supports and frame relative to one another in the same and opposite directions, and means for increasing the speed of said supports when said supports are moving in the same direction as the frame when compared with the speed of the supports when moving in a direction opposite to that of the frame.

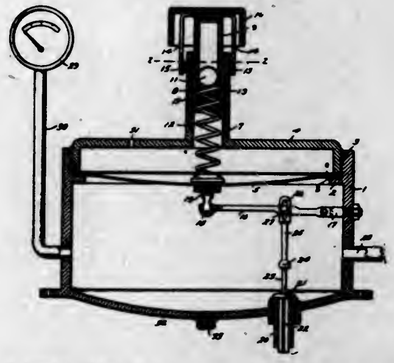
5. A tractor comprising a frame, rolling means supporting one end of the frame, shoes for the other end of the frame, a carriage associated with each shoe, an endless track on the frame for each of the carriages, an endless chain mounted to revolve about each track and connected to the carriage on the track, means for imparting rotary motion to the endless chains, differentials interposed between the endless chains and the motion-imparting means, and means for revolving the differential housings operable by the shoes.

1,352,287. GUARD FOR GAS-STOVE COCKS. JOHN LAYDON, Brooklyn, N. Y. Filed Sept. 9, 1919. Serial No. 322,660. 5 Claims. (Cl. 126—42.)



1. A guard for gas stove cocks including telescoping tubular sections having alined longitudinal slots at the under side, and being open-ended to permit the guard to be passed over the gas cocks by an endwise movement of the guard.

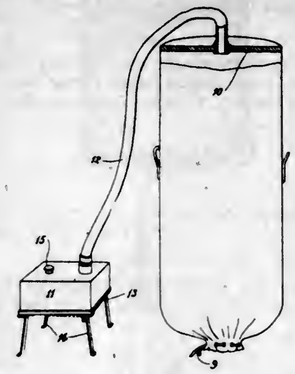
1,352,288. PRESSURE-REGULATOR. LOUIS LE BRAS, New York, N. Y. Filed Nov. 18, 1919. Serial No. 338,996. 2 Claims. (Cl. 137—53.)



1. A device of the character stated, comprising a casing, a diaphragm in the casing, a valve opened by the movement of the diaphragm when the latter moves in one direction, an internally screw threaded hollow post on the casing, a spring in the post bearing against the diaphragm, a ball on the end of the spring, a screw threaded plug in said hollow post engaging the ball, said post having longitudinal grooves in its outer face, a cap secured on said plug and spring arms secured between said cap and plug and engaging in said grooves.

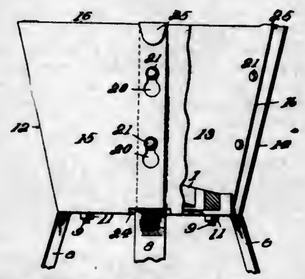
1,352,289. DISINFECTING OF, AND DESTRUCTION OF VERMIN IN CLOTHES, BEDDING, AND THE LIKE. PERCY SAMUEL LELEAN, Westminster, London, England. Filed Jan. 29, 1920. Serial No. 354,845. 2 Claims. (Cl. 167—3.)

1. Disinfecting apparatus comprising a sack adapted to contain the articles to be treated, said sack having a contractible end portion through which the articles may be introduced, the other end portion of the sack having a relatively stiff or rigid member closing the same, a boiler, and means passing through the rigid member for conducting steam from the boiler into the sack, said rigid member being at the top during the disinfecting operation,



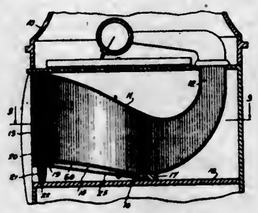
the contractible end providing an outlet for the air in the sack to escape whereby the steam passes through the sack from the top downwardly, the sack itself being collapsible whereby most of the surplus air may be squeezed out of the same prior to the introduction of the steam.

1,352,290. TENT-STOVE. JOSEPH E. LEONARD, Cedar Rapids, Iowa. Filed Feb. 25, 1919. Serial No. 279,131. 9 Claims. (Cl. 126—59.)



1. A stove of the character described, comprising a grate, legs supporting the grate and extending beyond the periphery thereof, and a fire pot loosely resting upon the legs and surrounding the grate and held against lateral movement by the grate.

1,352,291. ARTICULATOR FOR PHONOGRAPHS. FRANK BENAJAH LONG, Sacramento, Calif. Filed Sept. 29, 1919. Serial No. 327,307. 8 Claims. (Cl. 181—27.)



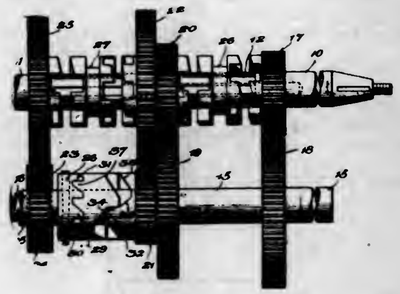
1. In a sound recording or sound reproducing machine a sound chamber provided with a sound board, and means for exerting an edgewise pressure on the said sound board to form a crown thereon.

1,352,292. METHOD OF MAKING FLOW-NOZZLES. HENRY C. LORD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 8, 1919. Serial No. 316,238. 3 Claims. (Cl. 29—148.)



1. The method of manufacturing a flow nozzle having a curved up-stream section and a straight down-stream section with a flange between said sections, which comprises taking a length of tubing having an external shoulder at a point which is to form the dividing line between the curved section and the straight section, placing a disk over the tube into engagement with said shoulder to form a flange, and expanding an end of the tube to form a curved tube section and hold said disk in position.

1,352,293. GEARING. WESLEY S. LOVELL, Elmira, N. Y., assignor of one-half to Robert R. Rockwell, Elmira, N. Y. Filed Apr. 22, 1919. Serial No. 291,879. 7 Claims. (Cl. 74—59.)



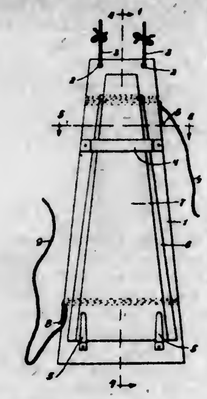
1. In selective, variable speed gearing, the combination with a driving shaft and a driven shaft, of means for connecting said shafts to drive the driven shaft at any one of a plurality of different speeds relatively to the speed of the driving shaft, said means including a low speed clutch which transmits power at lowest speed only, said clutch being disengaged when the shafts are connected for higher speeds and being adapted to automatically connect the shafts for low speed transmission when the higher speed connections are disconnected.

1,352,294. NECKTIE-PRESSING DEVICE. BOYD L. MCKNIGHT, Washington, D. C., assignor of one-half to Joseph E. Uebele, Washington, D. C. Filed Sept. 26, 1919. Serial No. 326,510. 2 Claims. (Cl. 100—57.)

1. A necktie press comprising two flat layers of rigid material loosely and permanently connected together at one end so that one may be swung from over the other, fastening devices carried by and exterior of the layers adjacent to opposite ends thereof and binding cords, one complementary to each fastening device and connected at one end thereto and adapted to be wound about the layers and detachably fastened at its opposite end to the fastening device.

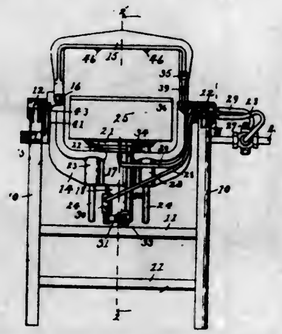
2. A necktie press comprising two flat layers of rigid material permanently connected together adjacent to one end of the device and so that one layer may be swung from over the other; one of the said layers being provided

on its outer side and adjacent to one end with a keeper loop designed to retain one end of a pad or pads and



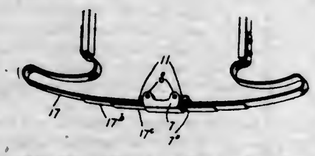
being also, provided adjacent to its opposite end with clamping means to detachably hold the other end of the pad or pads.

1,352,295. MOLDING-MACHINE. HENRY O. MAGNUSON, Chicago, Ill. Filed May 27, 1918. Serial No. 236,732. 8 Claims. (Cl. 22—32.)



1. In a molding machine, the combination of a supporting frame, a mold-clamping and inverting frame having trunnions on its opposite sides journaled in said supporting frame, said mold-clamping and inverting frame comprising upper and lower frame members hinged together at one end on a horizontal axis lying transverse to the axis of said trunnions and separably connected to each other at their other ends, a table supported on said lower frame member and itself adapted to support a mold-box, and means for elevating said table within said mold-clamping and inverting frame whereby to clamp the mold-box against said upper frame member.

1,352,296. CLAMPING DEVICE. MICHAEL J. MAGUTH, Carlstadt, N. J. Filed Nov. 25, 1916. Serial No. 133,299. 7 Claims. (Cl. 293—55.)



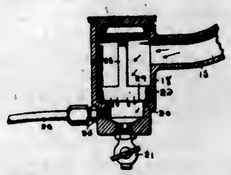
1. In combination with a spring buffer for motor vehicles formed of a plurality of sections, certain of said sections having their ends spaced apart and overlapped by other of said sections, a clamping device embodying a pair of cam levers for locking all of said sections in frictional engagement, each of said cam levers exerting pressure on the adjacent section at two points to maintain the spaced ends in alinement.

1,352,297. PICKER-STICK FOR LOOMS. HOMER F. MARSHALL, North Adams, Mass. Filed Nov. 1, 1919. Serial No. 334,942. 1 Claim. (Cl. 139—48.)



As a new and useful article of manufacture, a metallic picker stick holder for looms comprising a lower tubular portion and an upper socket or pocket portion of rectangular form in cross-section to receive and surround and reinforce the lower portion of a wooden picker stick section, and a rocker bearing having a cylindrical terminal portion disposed in and brazed to the lower end of the tubular portion of the holder.

1,352,298. LUBRICANT DISTRIBUTER AND FILTER FOR INTERNAL-COMBUSTION ENGINES. JOHN W. MEARS, Forest Hills, N. Y. Filed Jan. 13, 1919. Serial No. 270,899. 3 Claims. (Cl. 184—11.)

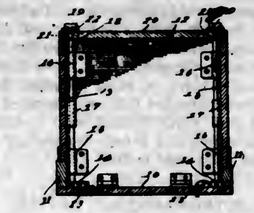


2. A lubricator attachment for engines having rotating oil carrying parts inclosed in a casing, comprising a receptacle containing a removable foraminous filtering element offering relatively low resistance to fluid flow, and said receptacle including a mouth having a face plate shaped to conform to the configuration of the casing, said mouth protruding from the plate through the casing and receiving oil delivered thereto centrifugally at a tangent to the rotating parts.

1,352,299. FOLDING CRATE. EMIL MERTZ, Tygh Valley, Oreg. Filed Feb. 3, 1920. Serial No. 356,012. 3 Claims. (Cl. 217—15.)

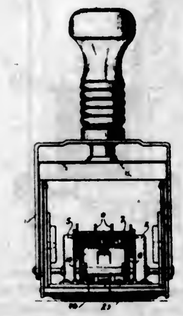
1. A folding crate comprising a bottom, sides and ends hinged upon the bottom, loops carried by the ends of the sides and ends and adapted to be brought into registration, corner bolts passing through the registering loops and threaded into the bottom, a top engaged upon the heads

of the bolts and prevented thereby from longitudinal or lateral displacements, and means carried by the top and



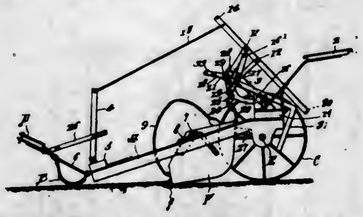
engaging said bolts for holding said top against movement away from the bottom.

1,352,300. DATING-STAMP LOCK. AUGUSTUS MILLER, East Orange, N. J. Filed Apr. 23, 1919. Serial No. 292,015. 1 Claim. (Cl. 101—111.)



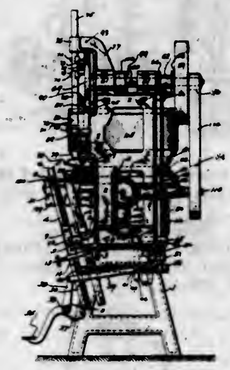
1. A locking means for use on a dating stamp which has a printing mechanism mounted on a swingable base, comprising a bracket fixed upon the available space of the base, a dog pivoted on the bracket, a spring disposed between the bracket and the dog for exerting pressure against said dog to confine it in engagement with the printing mechanism.

1,352,301. EARTH-SCRAPER. ARTHUR R. MISKIN, Idaho Falls, Idaho. Filed Nov. 11, 1918. Serial No. 262,006. 9 Claims. (Cl. 214—73.)



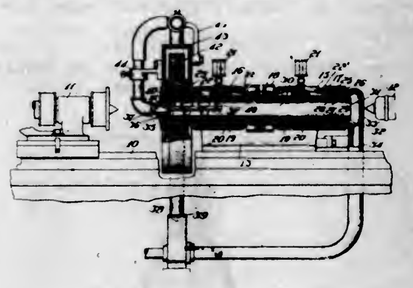
1. In an earth scraper the combination of a frame supported at its rear by wheels, adjustable means resting on the ground for supporting the front of the frame so that such portion may be held at various distances from the surface of the ground accordingly as said means are adjusted, a scoop pivotally supported in the frame between its front and rear portions, means for holding the scoop against rotation and means connected with the said holding means and also with the said adjustable supporting means for simultaneously operating these to release the scoop to permit it to turn over after discharging and at the same time to cause the frame to be adjusted relative to the ground and to bodily move the scoop to allow it to turn over.

1,352,302. HEEL-BUILDING MACHINE. JOHN H. MITCHELL, WILLIAM WOLFE, and DENNIS PARKS, St. Louis, Mo. Filed Sept. 14, 1918. Serial No. 254,137. 18 Claims. (Cl. 12—50.)



1. In a heel building machine, in combination with means for compressing and nailing a heel-blank, a movable holder for receiving a series of said heel-blanks in superimposed relation, and on which said heel-blanks are in turn built up, and means for moving said holder with a built-up heel-blank thereon beneath said compressing and nailing means.

1,352,303. SHAFT-COOLING MEANS FOR GRINDING-MACHINES AND THE LIKE. RAYMOND C. MITCHELL, Springfield, Ohio, assignor to The Webster & Perks Tool Company, Springfield, Ohio, a Corporation of Ohio. Filed June 15, 1918. Serial No. 240,186. 4 Claims. (Cl. 64—28.)

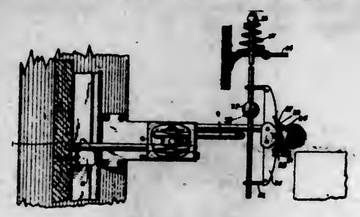


1. A combination of close fitting shaft bearing and a shaft therein having a hollow center open at one end, liquid supply means leading into the opposite end of the shaft, liquid receptive means associated with the open end of the shaft, liquid impelling means connected with the supply and receptive means, and means for causing the fluid introduced into the shaft to whirl therein.

1,352,304. DOOR-LOCK. ERNST E. L. MONTELIUS, New York, N. Y. Filed May 6, 1919. Serial No. 295,178. 5 Claims. (Cl. 187—61.)

1. A lock in combination with a door, a keeper secured to the inner face of such door, a latch arm engaging the keeper, a fork connected to such latch and extending in an opposite direction therefrom, such latch and fork being pivotally mounted at their point of connection, and means

for engaging the fork for depressing the same, whereby to elevate the latch, said means including a cord,



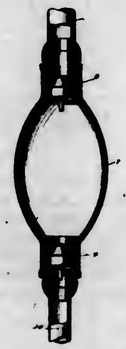
formed with an enlarged portion, adapted to engage the fork upon a pull being exerted upon the cord.

1,352,305. VEHICLE-TIRE. DAVID H. MOORE, Port Clinton, Ohio. Filed Feb. 4, 1920. Serial No. 356,326. 5 Claims. (Cl. 152—8.)



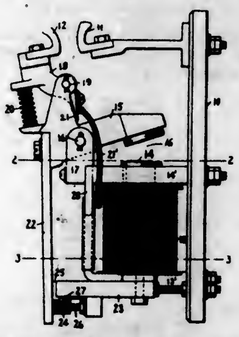
2. A tire of the class described, comprising a casing formed of a pair of coacting sections substantially semicircular in cross section, a tubular lining member formed of two sections and located within the casing, means for securing the edges of the sections of the tubular member and the casing sections together at the inner circumference of the tire, an annular plate located within the tubular member in the outer circumference of the tire and having a portion projecting between the edges of the sections of the tubular lining member and casing, strips carried by said plate having their ends looped over the tubular member and casing, a tread plate and means for securing the tread plate, the edges of the tubular lining member and the casing, the strips and annular plate together.

1,352,306. SYRINGE. ROBERT L. MOTT, St. Louis, Mo. Filed Feb. 4, 1919. Serial No. 274,964. 1 Claim. (Cl. 128—231.)



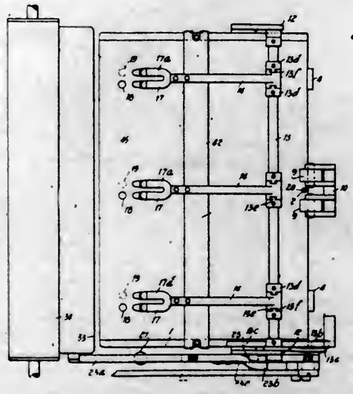
In a device of the character described, a pumping mechanism comprising a body formed at one end with a reduced extension and having a bore extending therethrough and through the extension, the bore being enlarged to form a valve seat, a nipple engaged upon said extension and adapted for connection with a flexible tube, a spider within said bore, a valve adapted to close said seat and having a stem slidable through said spider, a second body having an extension thereon and provided with a bore extending therethrough and through the extension, a nipple secured upon said extension and adapted for connection with a flexible tube, the inner end of said bore being enlarged to define a chamber, a spider at the juncture of the bore with the chamber, a valve movable within the chamber and having a stem slidable through said spider, and a sleeve threaded into said chamber and having its end toward said valve formed with a valve seat engageable by the latter, and a bulb connecting and having its ends engaged upon said bodies.

1,352,307. ELECTROMAGNETIC DEVICE. EDWIN J. MURPHY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 15, 1911. Serial No. 608,652. 6 Claims. (Cl. 200—94.)



1. A controlling device for electric circuits comprising a pivoted switch member having an armature portion on each side of the pivot, an electromagnet acting on one of said armature portions to close the switch and on the other armature portion to hold it open, and a magnetic shunt to said holding portion which approaches saturation when the exciting current of the magnet is above a predetermined value and causes the holding force to predominate until the current is decreased to the predetermined value.

1,352,308. PAPER-FEED MECHANISM FOR PRINTING-TELEGRAPHS, &c. DONALD MURRAY, London, England, assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Aug. 23, 1915. Serial No. 46,780. 13 Claims. (Cl. 271—43.)



1. Paper feed mechanism such as described comprising paper supply means adapted to hold a pile of sheets at a suitable height, positive holding means for such sheets

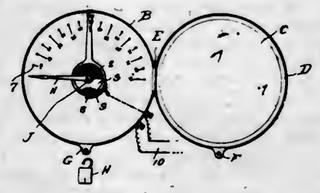
engaging the same and preventing lateral displacement thereof except by the tearing away of such sheets from such holding means, one or more feed fingers adapted to feed sheets singly or in predetermined number from the top of such pile, said feed fingers adapted to engage such sheets positively and to tear them away successively from the positive holding means, and means for operating said feed fingers.

1,352,309. GAME OR TOY. LAURA M. MYERS, Chicago, Ill. Filed Jan. 20, 1919. Serial No. 272,010. 5 Claims. (Cl. 46—59.)



1. A toy comprising a short resilient base member, with a cover of felt over the top thereof and extending beyond the sides a sufficient distance so that the device will tend to stand in upright position, said base having an upwardly projecting vane of light material.

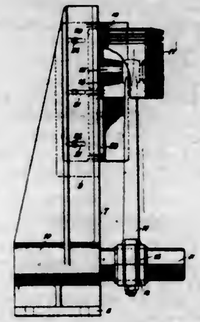
1,352,310. AUTOMATIC SPEED-REGULATOR. CARL S. OLSON, Troy, Idaho. Filed July 21, 1919. Serial No. 312,119. 4 Claims. (Cl. 175—355.)



1. In combination with a speedometer, a disk connected to the shaft of the speedometer consisting of an insulating segment and a metallic segment, and an arm making contact with and adjustable on the disk.

1,352,311. TOOL FOR ALINING AND FITTING MACHINE PARTS. JOHN PEYER, New York, N. Y. Filed Nov. 29, 1918. Serial No. 264,670. 5 Claims. (Cl. 33—180.)

1. An apparatus as characterized comprising a member having a straight exposed surface; a supporting shaft; means for rigidly holding said shaft in relation to said member and in perpendicular relation to said surface, and a steady rest for a piston supported on said shaft, said



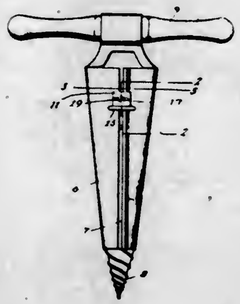
rest having view openings formed therein for permitting the passage of light past said surface.

1,352,312. CONVEYER. WILSON PINES, Rogers, Mich. Filed Oct. 13, 1919. Serial No. 330,194. 7 Claims. (Cl. 193—7.)



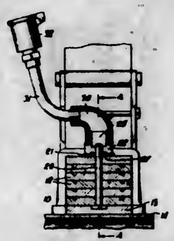
2. A conveyer comprising a series of pans each including a main portion having side flanges and a hingedly connected apron having side flanges, the side flanges of the apron being pivotally connected with the flanges of the main portion of the pan.

1,352,313. AUGER. RAYMOND PREW, Detroit, Mich. Filed Feb. 2, 1920. Serial No. 355,876. 2 Claims. (Cl. 145—128.)



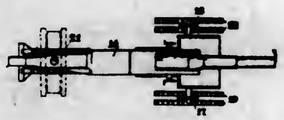
1. In combination with a hollow cone shaped auger which is slitted longitudinally to provide an outer cutting jaw and an inner inactive jaw, and said cutting jaw having a longitudinal groove on its outer face, of a gage block having a pocket to receive the cutting edge of the cutting jaw and a bead to be received in the groove of the cutting jaw, removable and adjustable means carried by the block for contacting with the inner face of the cutting jaw for retaining the same in the pocket and for locking the block adjustable to the jaw.

1,352,314. LUBRICATING MEANS FOR LEAF-SPRINGS. HOLDEN RIGBY, Paterson, N. J. Filed Dec. 16, 1919. Serial No. 345,434. 1 Claim. (Cl. 267—50.)



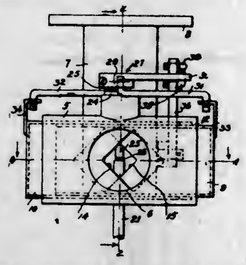
A lubricating means for leaf springs, comprising a bolt extending through the spring leaves, a nut screwing on the said bolt and having an oil receiving chamber provided in the bottom with apertures for delivering the oil to the leaves, a cap screwing on the said nut, and an oil cup connected with the said cap.

1,352,315. COMPOUND CRAWLER. EMILE RIMAILHO, Paris, France, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Filed Aug. 8, 1918. Serial No. 249,006. 11 Claims. (Cl. 89—40.)



1. A compound crawler with steerable progression, and comprising a central carrier plate, two elementary and independent crawlers spaced apart in parallel relation, said elementary crawlers pivotally carried on opposite sides of said carrier plate and on a common pivot, and means for driving each crawler independently of the other.

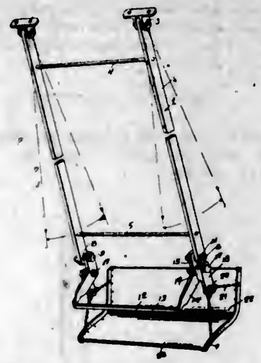
1,352,316. CARBURETER. HARLEY G. ROBINSON and LEWIS K. STINSON, Los Angeles, Calif. Filed Mar. 4, 1918. Serial No. 220,127. 1 Claim. (Cl. 261—49.)



A carbureter comprising an open ended cylindrical mixing chamber having oppositely disposed air inlet and mixture outlet openings in its wall, a pair of cylindrical members each having a pair of oppositely disposed openings therein reciprocatingly mounted in said mixing chamber, the outer ends of said members being closed, a fuel valve mounted in said mixing chamber, and a single means to reciprocate said cylindrical members and to regulate the amount of fuel delivered by said valve.

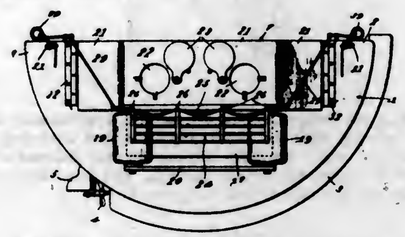
1,352,317. SWING. FREDERICK SCHWABS, Berne, Ind. Filed Apr. 10, 1919. Serial No. 288,955. 2 Claims. (Cl. 155—65.)

1. In a single seated swing, swinging suspension members, a propelling device including arms pivotally connected with the said suspension members, the arms extending downwardly and forwardly from the said suspension members, a handle bar connecting the arms, links



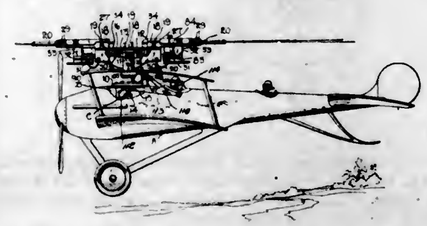
pivotally connected with the arms at points below the pivotal connections between the arms and the suspension members, and a seat supported from the said links.

1,352,318. LIFEBOAT. LEOPOLD SESTY, Bridgeport, Conn. Filed Nov. 11, 1919. Serial No. 337,291. 7 Claims. (Cl. 9—3.)



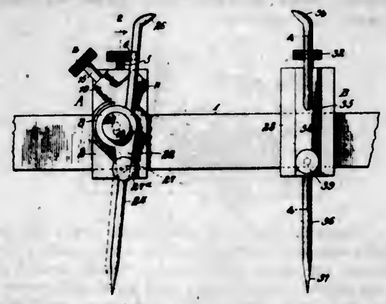
1. A life boat of the class described comprising a hull and side deck portions projecting outwardly beyond the sides of the hull, the decks of said portions forming continuations of the main deck.

1,352,319. MOTOR-OPERATED GUN. DAVID J. SMITH, Jr., Washington, D. C. Filed Nov. 9, 1918. Serial No. 261,877. 7 Claims. (Cl. 89—40.)



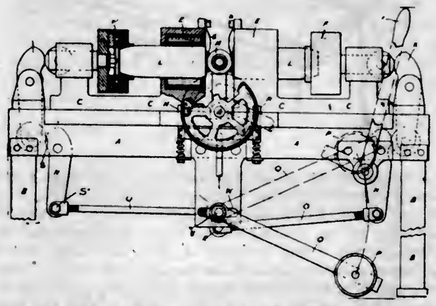
1. The combination with a motor driven vehicle including a motor having a shaft, of a tubular column supported upon the vehicle and having an annular gear wheel concentric to the axis of the column, a rotatable shaft passing through the column and operatively geared to the motor shaft, a platform carried by the rotatable shaft, guns mounted upon the platform, gear wheels, one for each gun, carried by the platform and operatively engaging the annular gear wheel on the column, and means operated by said gear wheels for firing the several guns.

1,352,320. TRAMMEL-POINT. HERBERT V. SOUDERS, Wilmington, Calif. Filed May 10, 1919. Serial No. 296,168. 9 Claims. (Cl. 33—160.)



1. A trammel structure comprising two heads each having on one face a clamp for engaging a trammel bar and on the opposite face means for holding a clamping trammel point thereto, one of the heads having the holding means for the trammel point rotatable about an axis perpendicular to the face of the head, and also including means for clamping the rotatable part in adjusted positions.

1,352,321. MACHINE FOR ROLLING IN THE BASE-PLATES OF HIGH-EXPLOSIVE SHELLS AND SUCH LIKE. FRANCIS CHARLES SOUTHARD and HENRY GEORGE SOUTHARD, Southampton, England. Filed Aug. 15, 1918. Serial No. 249,965. 7 Claims. (Cl. 29—1.21.)



1. In a machine for rolling in base plates for explosive shells, a base portion, a rolling tool mounted on said base portion, means to move said rolling tool transversely of said base, means to limit such transverse movement, shell holders pivotally secured to said base and adapted to be swung outward relative to said base, adjustable means for positioning said shell holders on said base, means to retain said shell holders in position on said base, means to release said shell holders from operative position on said base and automatically operable means for moving said shell holders to operating position relative to said rolling tool.

1,352,322. METALLIC ALLOY AND METHOD OF MAKING SAME. THERON D. STAY, Cleveland, Ohio, assignor to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 6, 1917. Serial No. 152,791. 12 Claims. (Cl. 75—1.)

1. An aluminum alloy composed of aluminum in a predominating amount, copper in appreciable amounts and titanium.

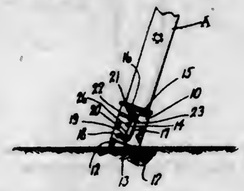
2. An aluminum alloy composed of aluminum in a predominating amount, copper in appreciable amounts and titanium up to 0.10%.

3. An aluminum alloy containing aluminum, copper and titanium in approximately the following proportion by weight: aluminum 88% to 90%, copper 12% to 10%, and titanium 0.10% approximately.

4. An alloy of aluminum, copper and titanium, in which the aluminum largely predominates, which is characterized by low crystallization shrinkage, and, in the solid state, by relatively great hardness and a fine-grained structure having good bearing qualities.

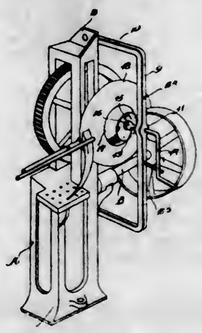
5. The method of forming an alloy containing a metal of relatively high melting point and a metal of relatively low melting point which consists in first forming an alloy whose constituents include the said high melting point metal and a metal having a melting point between those of the other two metals, and then combining with the last named alloy said low melting point metal.

1,352,323. SAFETY DEVICE FOR LADDERS. JOHAN STEPHAN, Clifton, N. J. Filed May 17, 1920. Serial No. 381,986. 3 Claims. (Cl. 228—61.)



1. A safety attachment for ladders comprising a body engaged upon the lower end of each side of a ladder, spring-pressed arms pivoted upon the sides of the body and having prongs adapted to engage the surface upon which the ladder stands, and means for holding said arms in elevated position with said prongs out of engagement with said surface.

1,352,324. DISK-SHARPENING MACHINE. CHARLES M. STRAIN, Crawfordsville, Iowa. Filed Jan. 15, 1920. Serial No. 351,709. 5 Claims. (Cl. 76—85.)



5. The combination with a disk sharpening machine, having a hollow driven shaft, of a face plate carried by said shaft, a yoke fixedly supporting and bridging the face plate, a follower coöperating with the face plate, means engaged in the bracket to advance the follower, a removable calk carried by the face plate, said face plate being of substantially bowl shape and stop means carried by the yoke and coöperating with said first named means.

1,352,325. FRUIT-PEELER. WARD SULLIVAN, Sidney, Ohio. Filed Feb. 12, 1917, Serial No. 148,035. Renewed Feb. 2, 1920. Serial No. 355,585. 4 Claims. (Cl. 146—14.)

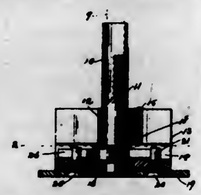
1. A fruit peeling implement, comprising a tubular handle, a plurality of laterally disposed cutting elements of varying lengths arranged on one end of the handle, and

a looped wire finger extending longitudinally of the handle and having the end portions thereof secured to certain



of the cutting elements and portions of the sides thereof secured to the sides of the tubular handle.

1,352,326. MOTOR-DRIVEN HAIR-CLIPPER. DAVID N. SWATZELL, Birmingham, Ala., assignor of one-fourth to B. P. Cox, one-fourth to R. C. Adcock, and one-fourth to W. A. Swatzell, Birmingham, Ala. Filed July 17, 1919. Serial No. 311,580. 5 Claims. (Cl. 30—1.)



1. In a barber's hair clipper, a frame, a fixed blade attached thereto by screws having rounded projections above the frame, a reciprocatory slide guided by said screws, a crank shaft adapted to reciprocate said slide, a movable blade reciprocable with said slide, and a flexible driving shaft for said crank shaft.

1,352,327. DIRECTION-INDICATOR FOR VEHICLES. FRANK H. SWEENEY, San Francisco, Calif. Filed May 10, 1920. Serial No. 380,408. 8 Claims. (Cl. 116—50.)

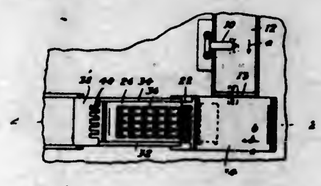


1. A device of the character described comprising a pair of rods having means for attachment to a vehicle, means connecting said rods to hold the same taut, direction indicators connected to and slidably mounted on said rods, manually control means connected to said direction indicators, and means for guiding said direction indicators in a horizontal plane.

1,352,328. NICKEL-PLATING. EDMUND N. TODD, Milburn, and WILLIS R. KING, Newark, N. J., assignors to The Hanson & Van Winkle Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 28, 1914, Serial No. 879,312. Renewed Feb. 12, 1920. Serial No. 358,127. 8 Claims. (Cl. 204—14.)

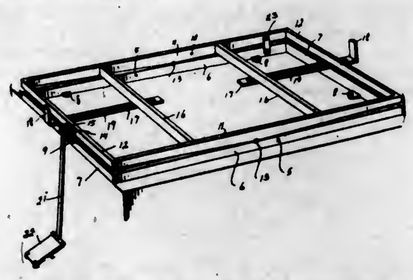
1. An electroplating mixture comprising sulfate of nickel and ammonium and an admixture of gum tragacanth.

1,352,329. CONVEYING AND TIPPING APPARATUS. EDWARD D. TSCHACHE, Minneapolis, Minn., assignor to Washburn Crosby Company, Minneapolis, Minn., a Corporation. Filed Dec. 21, 1918. Serial No. 267,776. 5 Claims. (Cl. 193—8.)



1. A conveying apparatus comprising means for carrying filled sacks in upright position underneath a device for closing the upper ends thereof, means located adjacent the delivery end of said first-mentioned means for causing the closed sacks to tip and means for receiving the tipped sacks and carrying them in recumbent position at an angle to the direction in which sacks are carried by said first-mentioned means.

1,352,330. FIXING-BATH AND DEVELOPING-TRAY SUPPORT AND ROCKER. SIDNEY J. TYLER, Afton, Okla. Filed Sept. 18, 1919. Serial No. 324,340. 1 Claim. (Cl. 259—75.)



A device of the character described comprising a stationary supporting frame, a rocking frame coinciding with the stationary frame, the intermediate lower portion of each side of the rocking frame being enlarged, said enlarged portion being pivoted to the supporting frame, and arms slidably mounted on the lower surface of each end portion of the rocking frame, said arms being adjustable toward and away from each other beyond the ends of the rocking frame.

1,352,331. PROCESS OF ELECTROPLATING NON-CONDUCTING SUBSTANCES WITH COPPER. UMIKICHI UNNO, Tokyo, Japan. Filed Nov. 21, 1917. Serial No. 203,179. 2 Claims. (Cl. 204—8.)

1. The method of electrolytically depositing metal upon an article made of a non-conducting substance which consists in impregnating the article with a mixture of beeswax, paraffin wax and white wax, preparing a coating mixture by mixing together relatively large proportions of graphite and sulfuric ether, and relatively small proportions of mercury and gold chlorid, drying and powdering the mixture, and coating the impregnated article therewith, then immersing the article so coated in a bath of electrolyte and electrolytically depositing a metal on said article while so immersed.

1,352,332. UMBRELLA AND PARASOL. ISAAC H. WEINBERG and CHARLES F. BISBING, New York, N. Y. Filed Mar. 5, 1920. Serial No. 363,606. 2 Claims. (Cl. 135—44.)

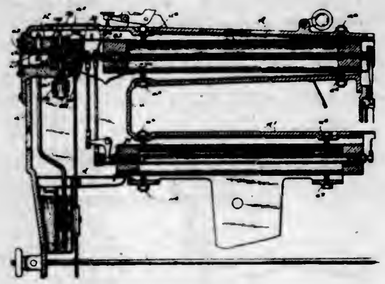
2. The combination with an umbrella or parasol having a handle thereon, of a ring movable longitudinally of the handle and adapted to be supported on the handle or

around the ribs of the umbrella or parasol, a flexible device, and a ring fixedly secured to the handle and to which said flexible device is connected, said flexible device being also connected to the first-mentioned ring and of a



sufficient length between the rings whereby an arm receiving loop is provided in either position of the ring, said handle tapering in form and adapted to support the ring thereon by a frictional engagement therewith.

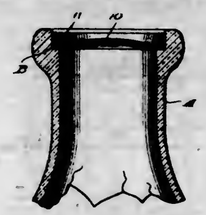
1,352,333. STOP-MOTION. JOHN PETER WEIS, Nyack, N. Y., assignor of one-half, by mesne assignments, to Metropolitan Sewing Machine Corporation, Nyack, N. Y., a Corporation of Delaware. Original application filed Oct. 16, 1914, Serial No. 867,005. Divided and this application filed Apr. 29, 1916, Serial No. 94,355. Renewed Dec. 24, 1919. Serial No. 347,191. 19 Claims. (Cl. 74—46.)



18. The combination with a drive-shaft; of a stop-motion constructed and operable for engaging and disengaging said drive-shaft; the stop-motion comprising liquid-cushion-forming means; means for supplying the liquid-cushion-forming means with cushion-forming liquid; and means for actuating the stop-motion.

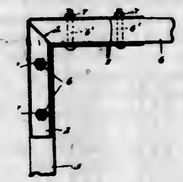
1,352,334. MILK-BOTTLE CAP. EMERICK WESTER, Easton, Pa. Filed Apr. 30, 1920. Serial No. 377,868. 1 Claim. (Cl. 215—14.)

A closure cap adapted for disposition within the mouth of a milk bottle, the mouth having an annular groove, comprising a disk of flexible metal concavo-convex in cross section and formed with an annular flange extending upwardly, the cap being normally disposed with its convex side uppermost with said flange inclining outwardly and frictionally engaging the wall of the groove, and the cap being capable of being pressed downwardly whereby to reverse convexity thereof to cause the flange



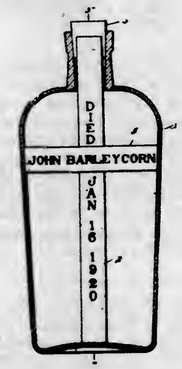
to be inclined inwardly whereby to withdraw it from engagement with the wall of the groove.

1,352,335. FASTENING-BRACKET FOR THE MITERED ENDS OF TIMBERS OR THE LIKE. EMIL WIRTH, Waukomis, Okla. Filed Feb. 17, 1919. Serial No. 277,570. 2 Claims. (Cl. 20—92.)



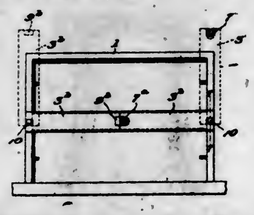
1. A corner bracket for connecting the mitered ends of timbers or the like, comprising right angularly arranged pairs of spaced arms which receive therebetween the timbers and to which the said timbers are secured, and an angle connecting portion for the arms against which the mitered ends of the timbers contact.

1,352,336. ADVERTISING DEVICE. HARRY M. YINGST, Harrisburg, Pa. Filed Mar. 15, 1920. Serial No. 365,977. 1 Claim. (Cl. 40—4.)



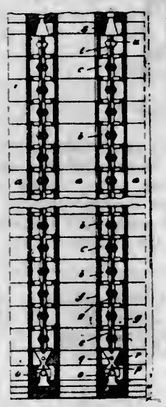
In combination with a transparent hollow body, including a neck that is normally closed by a cork; of a cross-shaped member arranged in the body and having indicia imprinted thereon which is readable through the body, the longitudinal element of the cross-shaped member having one of its ends contacting with the bottom of the body and its other end received in the neck and contacted by the cork in the neck, the transverse member of the cross having its ends contacting with the sides of the body for holding the cross against lateral movement in the body.

1,352,337. PLAYER-PIANO. JOHN W. ZIMMERMAN, Baltimore, Md. Filed Apr. 7, 1919. Serial No. 288,119. 4 Claims. (Cl. 84—151.)



1. In combination with the spool box and the tracker bar of a player piano, shutter sections pivotally mounted to rest in alinement over the tracker bar and to swing in a plane parallel to that of the tracker bar, and means subjecting the said sections to yielding pressure to yieldingly maintain the same against the spool box.

1,352,338. FURNACE. JACOBUS GERARDUS AARTS, Dongen, near Breda, Netherlands. Filed Aug. 11, 1916. Serial No. 114,485. 2 Claims. (Cl. 202—9.)



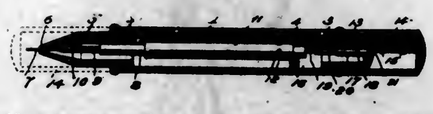
2. A furnace of the class specified having vertical chambers, the wall of each chamber being composed of bricks consisting of highly refractory material and provided with a large number of narrow heating flues and a large number of baffles arranged transversely therein to the direction of the current of the heating gases to increase the resistance of the flues to such current and produce a better intermixture of the heating gas with the air for combustion, the flues of the several bricks being in communication and forming continuous flues from the bottom to the top of the furnace.

1,352,339. CHAIN TIGHTENER AND LOCK. GEORGE ANDEREGG, Sheridan, Wyo., assignor of one-half to Roy C. Tarrant, Sheridan, Wyo. Filed Mar. 31, 1919. Serial No. 286,461. 4 Claims. (Cl. 24—69.)



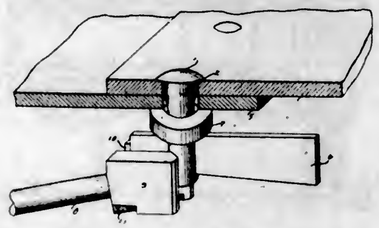
2. The combination with a link of a chain, said link comprising a loop with a pair of spaced eyes at one end of said loop, and spaced and hooked ends engaging said loop, of a substantially J-shaped lever composed of a long and short arm, the short arm being provided with a transverse opening, means connecting the eyes and the short arm of the lever for pivotally connecting said lever to said link, said lever working between the spaced hooked ends of the link, and a locking bar or element pivotally connected to the long arm of said lever at a point nearer one end of the bar than the other, said locking bar element having a length greater than the loop of the link, so that when the device is in locked position said locking bar element extends beyond the said loop.

1,352,340. WRITING IMPLEMENT. CASPER J. APP, Lynchburg, Va. Filed Apr. 14, 1919. Serial No. 289,886. 16 Claims. (Cl. 120—44.)



12. A writing implement comprising a tubular reservoir body member with a rearward extension thereof, a division wall between the body member and rearward extension forming a supplemental reservoir, a nozzle for the front end of the reservoir, a plug for the rear end of the supplemental reservoir, a tubular member mounted in and extending through the division wall and at the forward end entering the nozzle and there carrying a writing point projecting from the front of the nozzle, said tube adjacent to the writing point having a passage therethrough opening into the main reservoir and also having a passage near its rear end opening into said supplemental reservoir, and another tube carried by the rear end of the plug and communicating through said rear plug end with the atmosphere and through its side passage with the supplemental reservoir, said last-named tube having a prolongation toward the rear end of the first-named tube but stopping short thereof and there provided with an agitatable extremity in position to rupture a film or bubble formed at the rear open end of the first-named tube.

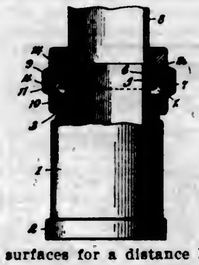
1,352,341. BUTTING-TOOL. ROBERT WILLIAM AYLING, West New York, N. J. Filed Oct. 15, 1919. Serial No. 330,879. 4 Claims. (Cl. 29—84.)



1. A butting tool comprising a head formed with a bolt receiving face, a wedge guide, and a handle extending from said head.

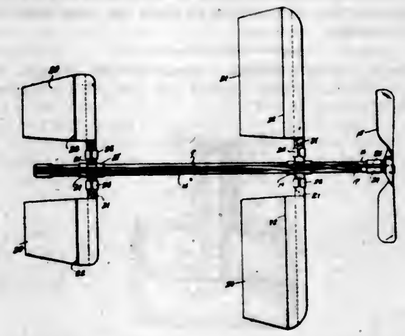
1,352,342. UNION-FERRULE. ALBERT W. BACHMANN, Laporte, Ind. Filed Mar. 27, 1919. Serial No. 285,435. 4 Claims. (Cl. 285—86.)

1. A joint for connecting hard and soft metal pipes together, including a nipple extension of the hard metal pipe for entering one end of the soft metal pipe, said nipple extension having relatively thin walls elongated in the direction of the length of the pipe and having an acute exterior curved taper, and a nut for application to the hard metal pipe in embracing relation to the nipple and the soft metal pipe applied thereto, the said nut having a correspondingly elongated interior convexly rounded surface for location opposite and shaped to receive the convexly rounded longitudinally elongated outer surface of the nipple, whereby the soft metal pipe is grasped between



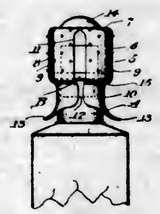
the two convex surfaces for a distance lengthwise of the nipple and nut.

1,352,343. TOY AEROPLANE. ALFRED ZANTZINGER BAKER, Newark, N. J. Filed Feb. 17, 1920. Serial No. 359,436. 11 Claims. (Cl. 244—14.)



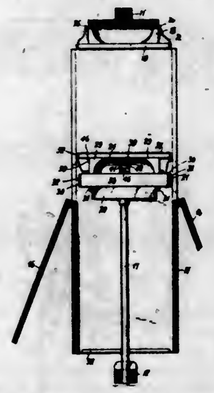
1. A toy aeroplane comprising a body portion or fuselage made from a single piece in the form of a bar having a slot cut in each end thereof, wing fittings mounted on the bar, wings attached to the fittings, and a propeller head and tail bracket fitted on each end of the bar by engaging the slots, said propeller head and tail bracket characterized by having socket clasps which surround and clamp the bar.

1,352,344. POISON-BOTTLE INDICATOR. ARTHUR G. BAXTER, Wabana, Belle Isle, Newfoundland. Filed Dec. 8, 1917. Serial No. 206,269. 1 Claim. (Cl. 215—113.)



A poison indicator for bottles comprising a hollow cylindrical body having its upper end closed and its lower end open for receiving the neck and cork of a bottle, said body being provided in opposite sides with longitudinal incisions thereby forming a pair of yieldable transversely curved attaching members, the intermediate portions of said attaching members being offset for forming retaining shoulders and neck engaging portions, the free lower portions of said transversely curved attaching members being curved outwardly for forming combined guides and finger engaging portions.

1,352,345. BLOCK OR FOLLOWER FOR BALING-PRESSES. IRVINE N. BECKER, Kaufman, Tex. Filed Nov. 19, 1918. Serial No. 263,178. 9 Claims. (Cl. 100—19.)



2. A block or follower for baling presses, said block having pockets to receive within its periphery the edge portions of a wrapping sheet disposed thereon having means for lifting an edge portion of the wrapping sheet disposed thereon.

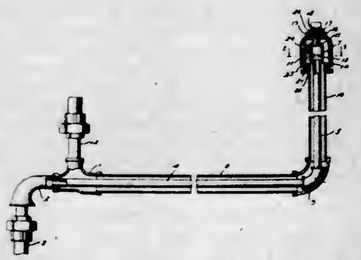
8. The combination with a block or follower for baling presses, of a rock shaft journaled therein, a lever for operating said rock shaft, and a plurality of longitudinally movable rods operated by said rock shaft and having heads disposed adjacent one edge of said block.

1,352,346. BRUSH-HANGER AND PAD-REMOVER. MATTHEW P. BENSON, Troy, and MILTON M. WIENER, New York, N. Y. Filed Feb. 2, 1920. Serial No. 355,710. 3 Claims. (Cl. 15—29.)



1. The combination in a hair brush with a back having an undercut flange and a flexible pad seated beneath said flange, of a hand operated ejector carried by the brush for the removal of the pad by pressure against the inner surface thereof.

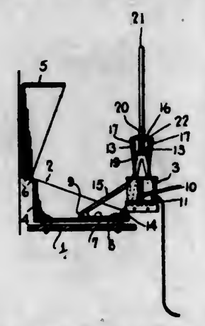
1,352,347. OIL-BURNER. WILLIAM B. BOOKER, Freeport, Tex. Filed Nov. 25, 1919. Serial No. 340,523. 1 Claim. (Cl. 158—75.)



An oil burner, comprising a steam line, an oil pipe located inside of the steam line, a burner head on the steam line, a spray head on the oil pipe in the burner head, said spray head having a threaded opening in its end, a threaded plug in said opening having a tapering outer end,

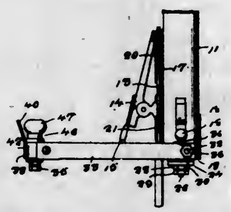
said burner head having a screw threaded opening in its end, a screw threaded plug in said last-mentioned opening having a conical socket in its inner end receiving the first-mentioned plug and centering the spray head in the burner head.

1,352,348. AIR-PUMP. SHIRLEY H. BOSSART, Birmingham, Ala. Filed Nov. 13, 1918. Serial No. 262,326. 1 Claim. (Cl. 230—27.)



A device of the class described comprising a casing, a pump hingedly secured thereto and comprising a pair of cylinders, pistons therein, rods connected with the pistons, an upright connected with the pump, a T-shaped mmber pivoted to said upright, links connecting two arms of the T-member with the piston rods and the other arm having a socket therein and a handle for engaging said socket.

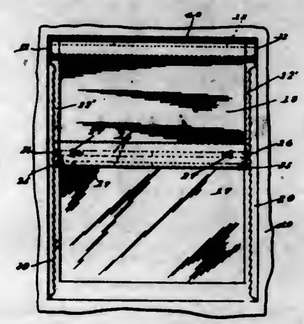
1,352,349. ILLUMINATING ATTACHMENT FOR MUSIC-HOLDERS. FRANK A. BUA, Lodi, N. J. Filed Dec. 2, 1919. Serial No. 342,019. 1 Claim. (Cl. 240—4.)



An illuminating means for sheet music holders, including a battery, a support including front and back members, and a bottom connecting said members receiving the battery, and said support being in contact with one of the electrodes of the battery, a flange on one end of the bottom, an arm pivoted thereto and designed by contact with said bottom to be limited in its swinging movement in two directions, said arm having a flange one one side thereof, a guide housed therein and connected to the second electrode of the battery, an angle member pivotally secured to the outer end of the arm and having a socket receiving a lamp bulb to the terminal of which the said wire is connected, guide means carried by the latter member for the wire, an integrally formed reflector having a bulb on said member, and the front plate of the support having integral spring fingers for engaging with the music holder.

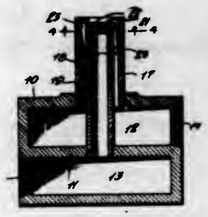
1,352,350. WINDOW-SHADE. THOMAS J. BURNS, Syracuse, N. Y. Filed June 21, 1919. Serial No. 305,759. 3 Claims. (Cl. 156—14.)

3. The combination with a spring actuated window shade having side hems and a transverse hem, of a longitudinally slotted guide secured to each side of the window casing, vertical rods positioned within said guides for insertion within the side hems, a frame comprising spaced transversely disposed rods and end connecting rods located within the transverse hems, eyes located at



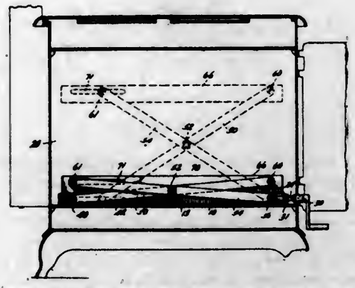
each end of the frame for engagement around the vertical rods and means extending over the side hems of the shade and around the vertical rods to space the hems from the tubular guides.

1,352,351. GAS-BURNER. JAMES BYERS, Chicago, Ill. Filed Oct. 21, 1919. Serial No. 332,157. 2 Claims. (Cl. 158—99.)



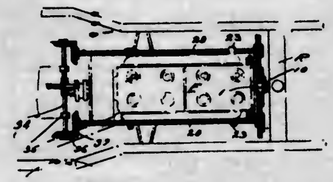
1. A device of the character described comprising a body provided with air and gas chambers having inlet openings, a tubular member connected with said body and communicating with the air chamber therein, a pipe extending concentrically through said tubular member and communicating with the gas chamber, and a tip on the end of said pipe having its outer end closed, said closed end being provided with a plurality of gas discharge holes and the outer periphery of said tip being provided with a plurality of spirally arranged ribs defining spiral passages through which the air passes, the air being thereby given a circular motion.

1,352,352. OVEN-GRILL. GEORGE BARKER CASWELL, Fort Terry, N. Y. Filed Mar. 29, 1920. Serial No. 369,739. 3 Claims. (Cl. 126—337.)



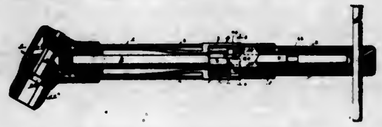
1. An oven grill adapted to fit into the oven of a cooking stove, comprising a grated base adapted to be supported in the lower portion of the oven, an open frame mounted to slide transversely on the said base and provided at its forward end with a nut, a transverse screw rod mounted to turn on the said base and screwing in the said nut to move the open frame forward or backward, a grated platform and lazy tong connections pivoted on the base and connecting the said frame with the said platform.

1,352,353. ENGINE-STARTER. MICHAEL CHATTLE, Wauna, Oreg. Filed Apr. 16, 1919. Serial No. 290,484. 4 Claims. (Cl. 123—185.)



1. In an automobile engine starter, the combination with a notched disk fast on the engine shaft, a gear wheel loosely mounted on said shaft, a pawl pivoted in the gear wheel and with its tip engaging said disk, and means for disengaging the tip from the disk when the engine backfires; of shafts extending alongside the engine, gears loosely mounted on their front ends and meshing with said main gear, pawl and ratchet mechanism for connecting the shafts with their respective driving gears, a rock shaft across the rear end of the side shafts and geared thereto, and a lever for oscillating the rock shaft, for the purpose set forth.

1,352,354. RATCHET AND CLUTCH MECHANISM. IRA CHURCH, Reed City, Mich., assignor of one-half to Lottie Sanford, Reed City, Mich. Filed Dec. 17, 1919. Serial No. 345,589. 7 Claims. (Cl. 81—60.)



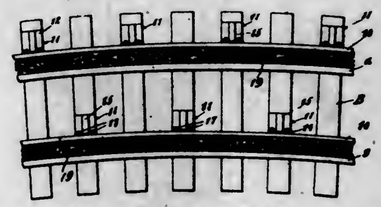
1. In mechanism of the character described; a first rotatable element having teeth; a pawl adapted to engage the teeth to hold said element against rotation in one direction only; a second element having a longitudinal movement and a rotary movement, and having a portion adapted to engage and move by the second element's longitudinal movement the pawl from operative engagement with the teeth, and having also a clutch member adapted to be moved by the longitudinal movement of the second element into clutching engagement with the teeth; a body member whereby said parts are carried.

1,352,355. COLLAPSIBLE TUBE. EDGAR LEROY CLEVELAND, Othello, Wash. Filed Nov. 18, 1919. Serial No. 338,895. 3 Claims. (Cl. 221—60.)



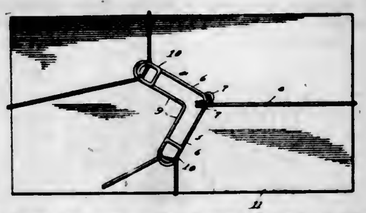
1. A collapsible and non-resilient tube adapted to be distorted in discharging the contents thereof, and flexible spring members secured upon the wall of the tube and adapted to produce a retracting effect on the contents within the tube when the pressure of distortion has been relieved.

1,352,356. GUARD-RAIL STRUCTURE. WALTER M. CREITZ, Bethlehem, Pa. Filed June 14, 1920. Serial No. 388,902. 2 Claims. (Cl. 238—17.)



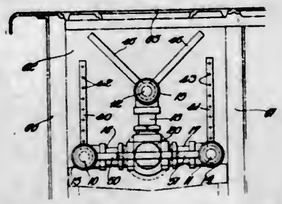
1. In combination with the rails of a trackway, guard rails secured upon the ties of the trackway at corresponding sides of the track rails and at the same distance apart as the distance between the rails and projecting above the rails, and the spaces between the rails and said guard rails being filled with crushed stone, both the rails and also the guard rails extending above the crushed stone.

1,352,357. PACKAGE-TIE. JOHN C. CULLIGAN, Bombay, N. Y. Filed Mar. 1, 1919. Serial No. 279,999. 1 Claim. (Cl. 24—18.)



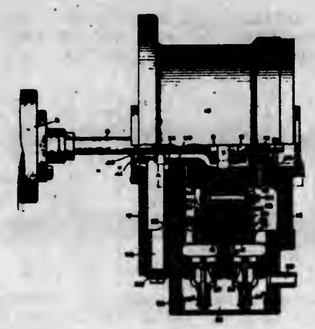
A package tie constructed from a strand of wire and comprising a right angular body portion, comprising parallel inner and outer arms, said arms at their outer ends being rounded upon themselves and provided with connected extensions that overlie the said arms and provide jaws, the outer arms providing the terminals of the wire strand and having their confronting face bent to provide interengaging eyes, and one of said eyes designed to receive a knotted tying cord therethrough.

1,352,358. GAS-BURNER FOR HEATERS. RUFUS DEPEW, Brooklyn, N. Y. Filed Feb. 12, 1920. Serial No. 358,253. 3 Claims. (Cl. 158—99.)



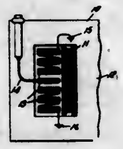
1. A gas burner for heaters, comprising side tubes and a top tube, the tubes being closed at one end and connected at the other end with a fixture common to the tubes, a gas and air mixer connected with the said fixture to supply the latter and the tubes with a mixture of gas and air, upright perforate pipes rising from the said side tubes, perforate bottom pipes extending from the side tubes toward each other, and perforate pipes diverging sidewise upwardly and outwardly from the said top tube.

1,352,359. DASH-POT. JOHN H. DORAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 4, 1919. Serial No. 269,661. 7 Claims. (Cl. 74—69.)



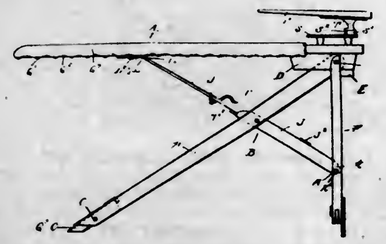
1. In an apparatus of the character described, the combination of a rotating shaft, a collar thereon, a dash-pot comprising a cylinder member and a piston member, one of said members being formed in two parts which engage said collar on opposite sides, and means for yieldingly holding said parts in engagement with said collar.

1,352,360. STATIONARY INDUCTION APPARATUS. WILLIAM O. DWYER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 27, 1920. Serial No. 361,702. 4 Claims. (Cl. 175—356.)



1. An electrical winding arranged to be supplied with current at substantially its middle point and to conduct the same in multiple paths diverging from said middle point advancing in the same direction about the winding axis, and provided with means located at said middle point for electrostatically imposing throughout said paths a desired potential distribution.

1,352,361. IRONING-BOARD. JOHN H. D. EVERETT, Boulder, Colo. Filed Apr. 13, 1917. Serial No. 161,891. 5 Claims. (Cl. 68—10.)



1. In an ironing table, the combination with a board, of a three-point supporting frame therefor comprising a standard adapted to engage the floor at spaced points, a diagonally projecting supporting leg, an adjustable abutment secured to said board, and a locking bar having a resilient portion adapting it to be sprung into position between said standard and said adjustable abutment for fastening said standard and leg in fixed position.

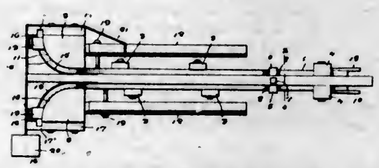
2. In an ironing table, the combination with a board, of an abutment member rigidly secured thereto, a supporting frame for said board having a standard pivotally secured to the board and rockable to a position against said abutment, an adjustable abutment also secured to said board, and a locking bar having a resilient portion adapting it to be sprung into locking position between said standard and adjustable abutment so as to press said standard against said abutment when the table is in position of use.

3. In an ironing table, the combination with a board, of a supporting standard pivoted to one end of said board, a supporting leg pivoted to the same end of said board and occupying a diagonal position in use and a resilient locking bar pivoted intermediately upon said leg, an abutment for one end of said locking bar upon the lower portion of said standard and an abutment for the other end of said locking bar, longitudinally adjustable upon said board to stress said locking bar and secure rigidity.

4. In an ironing table, the combination with a board, of an abutment carried by the board, a substantially vertical standard engaging said board adjacent one end of the same, a coacting supporting leg extending diagonally from one end of the board beneath the latter and a member pivoted upon said diagonal leg having a substantially rigid portion at one side thereof for engagement with said standard and having a resilient portion at the other side of the leg engageable with the abutment and adapted to be stressed by such engagement to establish a rigid relation between the board and frame.

5. An ironing table including a board equipped with an abutment on its under face and a supporting structure consisting of a supporting standard and a supporting leg secured to said board at a point remote from the abutment and an inherently resilient locking bar pivotally mounted intermediate its ends on said supporting leg, one end thereof being engageable with the supporting standard and the opposite end being flexed beneath said abutment for rigidly supporting said ironing board.

1,352,362. FORMING-CLAMP FOR TWO-PIECE SNOW-SHOES. WILLIAM W. FELTER, Arkansas City, Kans. Filed Dec. 19, 1919. Serial No. 345,966. 3 Claims. (Cl. 144—267.)

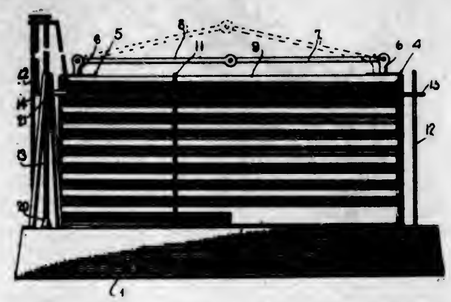


1. A device of the class described comprising a base having a slot therein, a block on each face of the base having a recess therein for receiving the heel ends of a pair of snow shoe strips, a former block on each face of the base for holding the strips in position, a pair of heel engaging blocks adjustably mounted in the slot and having their ends engaging both pairs of the strips and means for bending the toe ends of each pair of strips upwardly and holding them in this position.

1,352,363. SHEET-MUSIC MOVING AND TIME-KEEPING APPARATUS. JAMES FLYNN, Soo Junction, Mich. Filed Sept. 13, 1919. Serial No. 323,518. 6 Claims. (Cl. 84—48.)

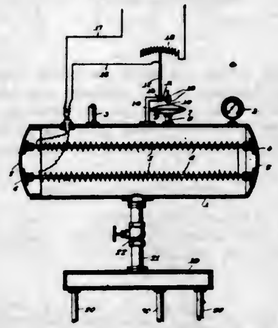
4. In an apparatus to move an endless music sheet on which music is inscribed in a spiral manner lengthwise of the sheet, the combination of means to move the sheet

rectilinearly, a line indicator movable to a corresponding degree throughout its length in a direction at right angles to the line of movement of the sheet, and disposed at all times in approximate parallelism with the lines on the sheet, and means to so move the line indicator at the same time that the sheet is moved.



6. Apparatus for the purpose described, comprising means to move a music-bearing sheet rectilinearly, a line indicator, a screw shaft, cones adjacent to the opposite ends thereof, a nut movable on and by the shaft and carrying the line indicator and controlled by the said cones, and a spring for quickly moving the said nut in one direction after the same is engaged by one of the cones from the screw shaft.

1,352,364. TEMPERATURE-REGULATOR. JOSEPH GRAZIANO, Newburgh, N. Y. Filed Oct. 15, 1918. Serial No. 258,184. 3 Claims. (Cl. 219—38.)



1. The combination with a compressed air reservoir, of means for automatically regulating the pressure of the air therein, said means embodying an electric resistance element in said reservoir, a rheostat in circuit with said element, and a pressure-operated controller for said rheostat in open communication with said reservoir and directly influenced by the pressure of the air therein.

1,352,365. [WITHDRAWN.]

1,352,366. [WITHDRAWN.]

1,352,367. ALLOY. JOHN G. HOMAN, Steubenville, Ohio, assignor, by mesne assignments, to William H. Keller, Norton, Va. Filed Jan. 3, 1920. Serial No. 349,288. 4 Claims. (Cl. 75—1.)

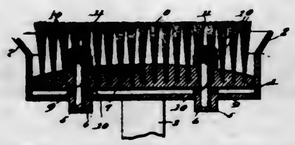
1. An alloy of iron and silicon having an electrical resistance superior to iron and of punchable quality, consisting of iron, silicon 1% to 6% and manganese .20% to 1%, the relation of the silicon and manganese being such, as one of them is increased or diminished, the other is also more or less increased or diminished.

1,352,368. ADVERTISING DEVICE. MELVIN HOSSEY, Crisfield, Md. Filed July 3, 1919. Serial No. 308,541. 4 Claims. (Cl. 40—28.)



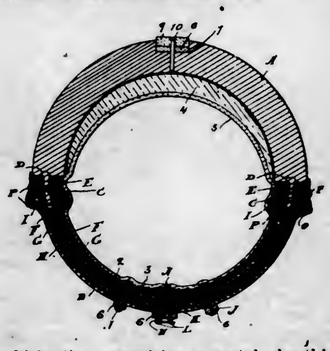
1. A device of the class described comprising a pair of figures representing a man and a woman, supporting means upon which the figures are pivotally mounted in such a manner that the figures will assume a position caused by gravity with their lips in contact, means engaging one of the figures for intermittently moving the figure away from the other figure and means for imparting a limited movement to the last mentioned figure by the movement of the first mentioned figure.

1,352,369. BRUSH. HOMER HUNT, Springfield, Mass. Filed Apr. 11, 1919. Serial No. 289,196. 1 Claim. (Cl. 15—13.)



A brush for cleaning ceilings comprising a rectangular receptacle having the upper portions of its side walls flaring outwardly, bolts connected with the bottom of the receptacle, a brush having holes in its back for receiving said bolts, washers on said bolts for spacing the brush from the bottom of the receptacle, nuts engaging the bolts for removably holding the brush in the receptacle, and a handle extending downwardly from the bottom of the receptacle.

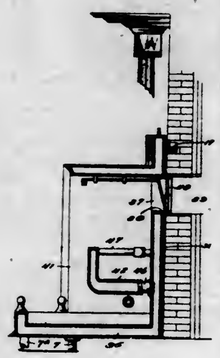
1,352,370. VEHICLE-TIRE. CHARLES ROBERT IRVINE, Petrolia, Ontario, Canada. Filed Jan. 7, 1920. Serial No. 349,895. 4 Claims. (Cl. 152—33.)



1. A vehicle tire comprising a metal sheathing composing the tread and designed to partly inclose the inner

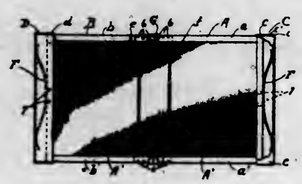
tube; a separable reinforced flexible closure member designed to complete the incasing of said tube; a tongue carried by each of the sides of said metal sheathing and extending circumferentially thereof; wires positioned adjacent said tongue, and designed to couple said separable closure member to said metal sheathing, and plates overlapping said metal sheathing at each side of the tire and suitably secured in position to said tongues.

1,352,371. HEATING SYSTEM. DAVID T. KENNEY, North Plainfield, N. J. Filed May 7, 1915. Serial No. 26,568. 6 Claims. (Cl. 126—132.)



1. In a circulating water heating system, a heating element for the water comprising a hollow fire supporting hearth forming the floor of an open fire-place.

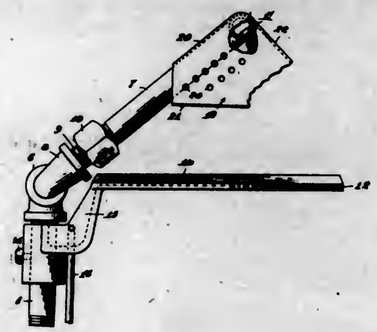
1,352,372. EXTENSION WINDOW-SCREEN. JOHN H. KESSLER, Binghamton, N. Y. Filed Jan. 20, 1919. Serial No. 271,951. 4 Claims. (Cl. 156—38.)



1. In a window screen the combination of two sliding screen frames having on their upper edges series of recesses adapted to be placed in alinement with each other, and a clamp placed over said frames and having a downwardly projecting member adapted to enter the alined recesses.

1,352,373. OIL-BURNER. LOUIS M. KOHNER, Los Angeles, Calif. Filed May 21, 1919. Serial No. 298,769. 9 Claims. (Cl. 158—66.)

3. A hydrocarbon burner comprising a vertical feed pipe, an arched generating tube communicating with the feed pipe from the opposite sides thereof and inclined relative to the horizontal, said generating tube being formed with a downwardly opening discharge orifice, a sleeve adjustable vertically on said feed pipe, a baffle plate carried by said sleeve and extending beneath the



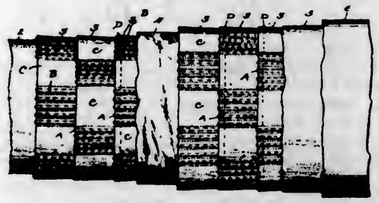
discharge orifice, and a generating cup formed at the juncture of the sleeve and baffle plate.

1,352,374. SNAP-FASTENER. THOMAS F. MORRIS, Waterford, N. Y. Filed Apr. 17, 1920. Serial No. 374,704. 7 Claims. (Cl. 24—208.)



1. A snap fastener member including a part to pass through an opening in the material and also including disks adapted to be clamped on the material beyond said opening, and spurs projecting from one of said disks to be deflected toward the opening in the clamping of the disks.

1,352,375. AUTOMOBILE-TIRE. ANNIE L. MEEKS, Gadsden, Ala. Filed Feb. 17, 1920. Serial No. 359,440. 6 Claims. (Cl. 152—18.)



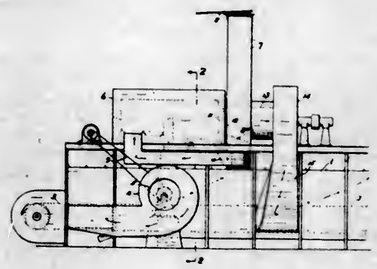
6. In a tire structure comprising a plain fabric layer, a plurality of reinforcement layers each comprising a plurality of fabric sections arranged transversely of the tire and so that each overlaps the one next adjacent and is secured thereto, each of said fabric sections being provided with a plurality of spaced groups of cords, the cord groups of one section being arranged in staggered relation to those of the next adjacent and overlapped section so as to seat in spaces between the cord groups of the latter and an intermediate layer of an armor material, such as rawhide, all superposed on said first fabric section, a fabric section superposed upon said reinforcement layers and a tread surrounding the whole substantially as specified.

1,352,376. CHUCK FOR RIBBON-WINDING MACHINES. EDGAR A. OPPENHEIMER, Chicago, Ill. Filed May 14, 1919. Serial No. 297,034. 6 Claims. (Cl. 279—71.)



1. In a chuck device, a bearing, a rotatable shaft mounted in said bearing, a head on one end of said shaft, consisting of two relatively movable sections, jaws carried by said head for gripping the flange of a ribbon spool, means for moving said jaws to gripping and releasing positions by proper relative shifting of said head sections, means for drawing one of said head sections laterally against the other to frictionally lock them against relative movement when said jaws are in gripping position, and means for rotating the aforesaid shaft.

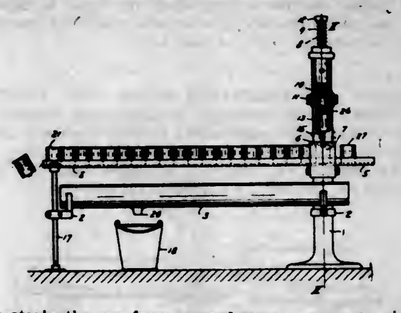
1,352,377. BRIQUET-DRIER. ROBERT S. PLUMMER, Philadelphia, Pa., assignor to American Briquet Company, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 11, 1919. Serial No. 323,172. 3 Claims. (Cl. 34—12.)



2. A briquet drier comprising in combination, a drying tunnel, a traveling conveyer extending through the tunnel and dividing it into upper and lower compartments and adapted to carry a bed of briquets, an offtake from the upper compartment at one end of the tunnel, a fan at the other end of the tunnel for forcing air into the lower compartment, a series of fans at stages intermediate of the length of the tunnel and having their inlets connected to the upper compartment and their outlets connected to the lower compartment, and means for heating the air prior to its introduction into the first of the fans of the series, substantially as described.

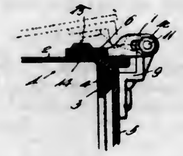
1,352,378. CAN-PUNCH. JOHN POSTMA, Loleta, Calif. Filed Dec. 27, 1919. Serial No. 347,818. 2 Claims. (Cl. 164—96.)

1. A can punching machine comprising a punch adapted to penetrate the top of the can and continue through the can and its contents and to punch a hole also in the bottom of said can in combination with a base member and traveling means thereon adapted to move cans successively under and away from said punch and a member adapted



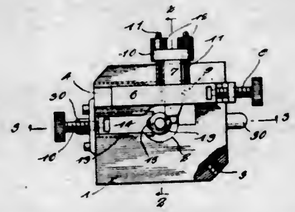
to restrain the can from upward movement as the punch is withdrawn from the can, and means for operating said punch.

1,352,379. HINGE FOR DOORS OF BURIAL-VAULTS. HARRY POUNDER, Galion, Ohio. Filed Apr. 28, 1920. Serial No. 376,100. 1 Claim. (Cl. 16—11.)



A hinge for mounting closures on burial vaults comprising a hinge plate provided with spaced slotted lugs, the slots being disposed in parallelism with the body of the plate, a second hinge plate including a right angular offset portion, on the free end of which is a knuckle, and a relatively fixed pivot member extending through said slotted lugs and knuckle, said member being in the form of a bolt which is adapted to be moved to various positions in the slots in the lugs and clamped by the nut in any position desired, whereby the closure may be adjusted to different positions and tightly contact packings of different thickness which are arranged between itself and the front of the vault.

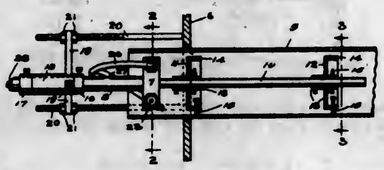
1,352,380. PORTABLE METAL-TURNING LATHE. GEORGE W. PAISBERRY, St. George, Utah, assignor of one-sixth to Brigham Carpenter and one-sixth to Robert Fawcett, St. George, Utah. Filed Dec. 11, 1919. Serial No. 344,013. 2 Claims. (Cl. 82—4.)



1. In a metal turning lathe a head having therethrough a work-receiving opening, a cutter carried by said head adjacent said opening, spacers extending rigidly from said head around the opening thereof, an annular internally channeled bearing carried rigidly by said spacers in spaced relation to said head, a substantially flat feed nut rotatably mounted in the channel of said bearing in alinement with said opening, a set screw carried by said bearing for holding said feed nut against turning when

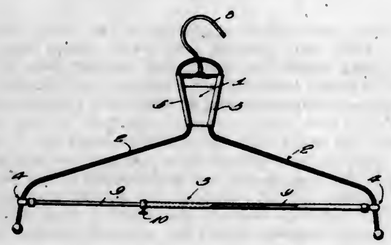
required, a sleeve threaded through said nut, a shoulder on said sleeve to abut said nut and hold the sleeve and nut against relative turning when the latter is released for rotation within said bearing, and means for centering and clamping the work in said sleeve.

1,352,381. OXYACETYLENE-TORCH FOR CUTTING TUBES. JOY S. REYNOLDS, Seattle, Wash, assignor, by direct and mesne assignments, to Reynolds Torch Manufacturing Company, Seattle, Wash. Filed Nov. 18, 1918, Serial No. 263,084. Renewed Jan. 24, 1920. Serial No. 353,801. 2 Claims. (Cl. 266—23.)



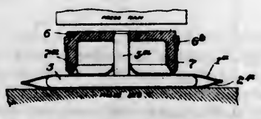
2. The method of cutting the end off of a boiler tube which consists of inserting a cutting torch within said tube, splitting the tube longitudinally in more than one place from the end inwardly to the point where it is to be cut off and then rotating the torch to cut off the end of said tube.

1,352,382. GARMENT-HANGER. DAVID R. RIDDICK, Rawlins, Wyo., assignor of one-half to Alexander L. Mackintosh, Denver, Colo. Filed Nov. 4, 1918. Serial No. 261,034. 2 Claim. (Cl. 211—13.)



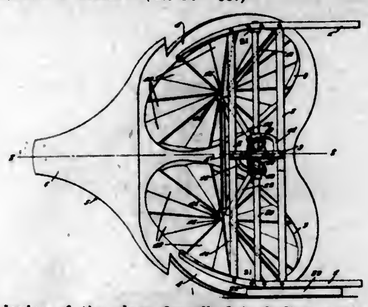
1. In a garment hanger, a support provided with a suspending device, a horizontal, longitudinally extensible and retractible spreader below said support and provided with guides at its ends, and a pair of self-straightening spring arms diverging downwardly from said support, the lower ends of said spring arms being sprung downwardly and inserted under tension through said guides without destroying their self-straightening qualities, whereby a constant outward stress is exerted on said lower ends of the arms to yieldably hold them against sliding through said guides.

1,352,383. MECHANISM FOR MANUFACTURING RUBBER BATHING-CAPS. RALPH EARL RILEY, Akron, Ohio, assignor to The Miller Rubber Company, a Corporation of Ohio. Filed Sept. 11, 1919. Serial No. 323,096. 3 Claims. (Cl. 154—42.)



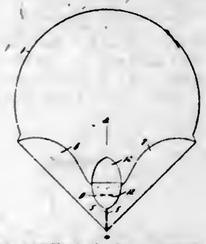
1. Means for use in forming rubber bathing caps comprising a flat platen having a vertical stem, and a substantially cylindrical die having a guideway to receive said stem and a blunt cutting edge.

1,352,384. VACUUM SNOW-SWEEP. ARTHUR B. RISHEL, Goddard, Kans. Filed Mar. 8, 1919. Serial No. 281,377. 1 Claim. (Cl. 37—68.)



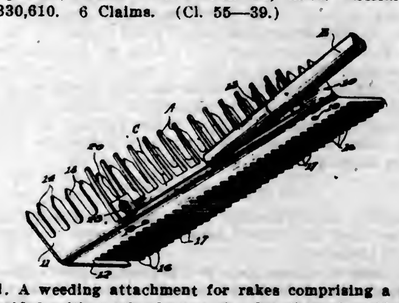
A device of the class described including a plow having side wings provided with openings; fans journaled in the openings; and means for rotating the fans to cause a draft outwardly through the openings, the plow having a central rib between the side wings and being provided with flanges on the rear ends of the wings, the flanges and the wings serving to direct laterally the air proceeding from the openings, thereby to produce a diminution of pressure at the sides of the plow in advance of the openings.

1,352,385. FAN. FREDERICK F. ROTHENHOEFER, Covington, Ky., assignor to The Monarch Lithographic Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 24, 1918. Serial No. 241,537. 2 Claims. (Cl. 230—33.)



1. A one-piece cardboard fan comprising a blank of suitable outline, having a straight edge as a base, oppositely disposed diagonal scored lines extending from said base edge at points central of the blank, dividing the blank into a body portion and two oppositely disposed flaps, the flaps folded upon the body portion on the scored lines, and a tongue cut from the center of said body portion and bent upon and secured to said flaps to provide a thumb receiving opening through the body portion.

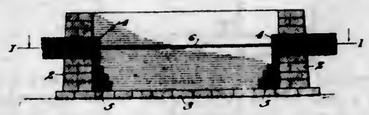
1,352,386. RAKE ATTACHMENT. OTTO RUNDBERG, Spokane, Wash. Filed Oct. 14, 1919. Serial No. 330,610. 6 Claims. (Cl. 55—39.)



1. A weeding attachment for rakes comprising a plate provided with teeth along each edge thereof, said plate bent intermediate its ends to provide obliquely disposed

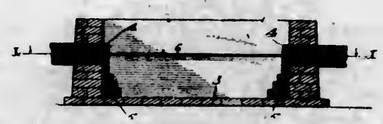
portions, and means for attaching said plate to an ordinary rake whereby one of the tooth portions will extend at an acute angle to the handle of the rake.

1,352,387. METHOD OF CONVERTING REFRACTORY OXID. LEWIS E. SAUNDERS, Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 15, 1919. Serial No. 290,223. 6 Claims. (Cl. 204—64.)



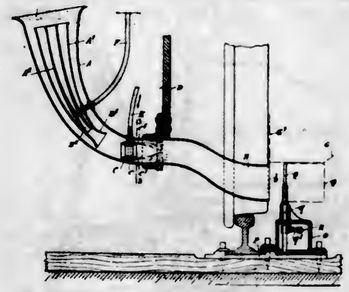
1. The operation is electrically far more efficient, its power requirement being only about ⅓ that of an ordinary arc fusion of the same oxid.

1,352,388. METHOD OF SHRINKING MAGNESIA. LEWIS E. SAUNDERS, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 28, 1917, Serial No. 183,367. Renewed Feb. 17, 1920. Serial No. 359,316. 2 Claims. (Cl. 204—64.)



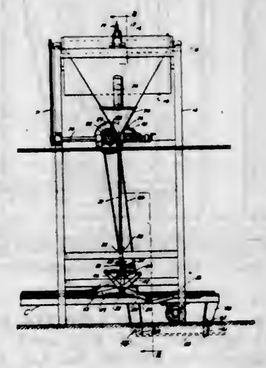
1. The electrical method of shrinking magnesia, which consists in locally heating a charge of magnesia under conditions to establish a current path therethrough, and progressively shrinking further portions of said charge by means of an electric current traversing the conductive portions thereof.

1,352,389. APPARATUS FOR REPEATING AUTOMATICALLY ON A RAILWAY-LOCOMOTIVE, TRACK SIGNALS PROVIDED FOR THE PROTECTION OF MOVING TRAINS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Joint-Stock Company of France. Filed Feb. 28, 1920. Serial No. 362,121. 13 Claims. (Cl. 246—192.)



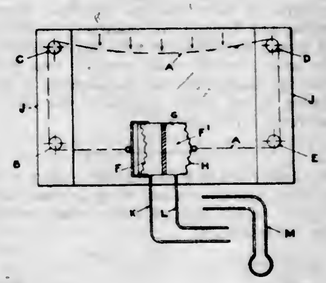
3. In a railway signal, a nozzle mounted on a car to form an air-duct, means for normally maintaining a depression of the air pressure in the nozzle, signal-indicating means communicating with the nozzle to be actuated by a fluctuation of the depression therein, and a screen mounted adjacent to the track to register with the mouth of a passing nozzle to cause a fluctuation of the depression in the nozzle.

1,352,390. PLASTER-BOARD AND METHOD OF MAKING SAME. JOHN SCHUMACHER, Los Angeles, Calif. Filed Dec. 22, 1919. Serial No. 346,534. 6 Claims. (Cl. 154—2.)



3. The method of making plaster board which consists in advancing a single sheet of covering material, folding said sheet intermediate the ends to form parallel covers, flowing plastic material between said covers while the latter is being folded, and compressing said board to form parallel faces.

1,352,391. ANEMOMETER. SYDNEY GEORGE STARLING, Forest Gate, and ARTHUR JOSEPH HUGHES, London, England, assignors to Henry Hughes and Son, Limited, London, England, a Corporation of England. Filed Apr. 10, 1919. Serial No. 289,066. 5 Claims. (Cl. 73—2.)

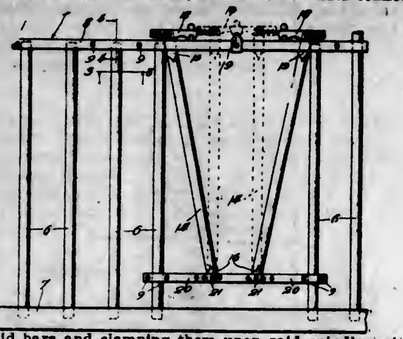


1. An anemometer comprising a flexible lineal connector supported under tension and arranged to yield to transversely directed air currents, and means for indicating variations in the tension of said connector.

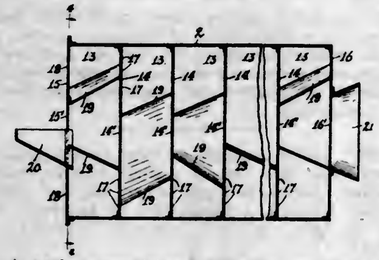
1,352,392. INCLOSURE, PEN, FENCE, AND THE LIKE. CHARLES M. STEVENSON, Chicago, Ill., assignor to Stevenson Mfg. Co., Barton, Wis., a Corporation of Wisconsin. Filed Sept. 29, 1919. Serial No. 327,178. 4 Claims. (Cl. 256—21.)

1. In a structure of the class described, a rail comprising two companion, webbed bars arranged with their channels facing each other and with their upper marginal edges abutting against each other, there being opposing

semi-circular holes in the lower sides of said bars, spindles extending through said holes, and bolts and nuts connecting said bars and clamping them upon said spindles with the abutting upper edges clamped together throughout.

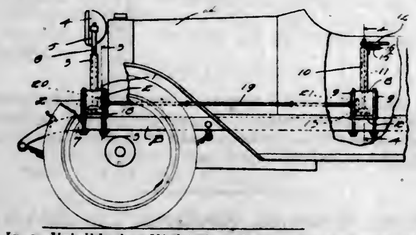


1,352,393. FRUIT AND VEGETABLE WASHER. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barn-Grover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Apr. 3, 1920. Serial No. 370,935. 6 Claims. Cl. 146—14.)



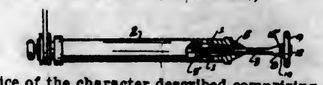
4. A washer comprising a rotatable, circumferentially-imperforate tank; means secured within and rotating with the tank for advancing the material therethrough and elevating and dropping it repeatedly during its progress, said means consisting of annular, perforate, spaced partitions, and a spiral vane between said partitions; and means for supplying and maintaining a stream of water flowing in the lower portion of the tank through the perforations of the partitions.

1,352,394. DIRIGIBLE HEADLIGHT. MAT A. TUCKER, Moore, Okla., assignor of one-third to Chas. L. Tucker, Moore, Okla. Filed May 19, 1919. Serial No. 298,042. 1 Claim. (Cl. 240—61.)



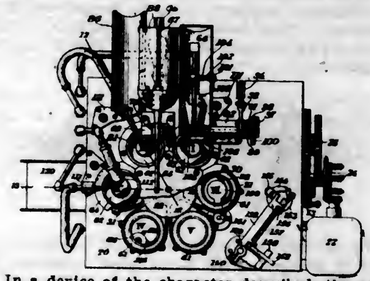
In a dirigible headlight, housings secured to the frame of an automobile, a base plate located beneath each housing, a tubular extension mounted on each housing and extending vertically upward, a shaft journaled in each housing and having a pointed lower end seated in a recess in the base plate aforesaid, one of said shafts being formed to receive and support a lamp, an operating handle secured to the other shaft, a horizontal shaft connecting said housings and journaled in their walls, a beveled gear wheel secured on each end of said horizontal shaft within the housing, and a beveled gear wheel on each vertical shaft and meshing with the gear wheel on the adjacent end of the horizontal shaft.

1,352,395. DENTAL MANDREL FOR HOLDING STONES AND SANDPAPER DISKS. WALTER S. WRIGHT, Lompoc, Calif. Filed Apr. 29, 1920. Serial No. 377,614. 1 Claim. (Cl. 32—13.)



A device of the character described comprising a mandrel having a split end; a clamping rod for an instrument extending through said mandrel and clamped therein at said split end.

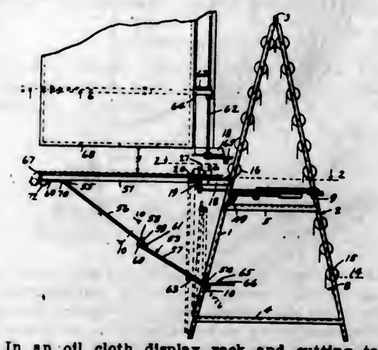
1,352,396. MACHINE FOR FINISHING BLOWN-GLASS ARTICLES. JAMES BAILEY, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Aug. 19, 1919. Serial No. 318,569. 12 Claims. (Cl. 49—2.)



2. In a device of the character described, the combination of a bulb tray, and automatic resilient means to rock the tray, a member having a stripping notch above the tray, and a latch moved by an insertion of the blow-iron in the stripping action to lock the tray against rocking.

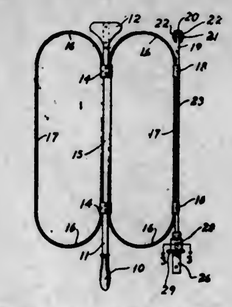
12. In a device of the character described, the combination of a transfer mechanism adapted to lift a bulb out of a chuck, of a resiliently supported pad adapted to raise said bulb into gripping engagement with said transfer mechanism.

1,352,397. OIL-CLOTH DISPLAY-RACK AND CUTTING-TABLE. FREDERICK M. BALDWIN, Bishop, Calif. Filed May 31, 1918. Serial No. 237,613. 3 Claims. (Cl. 211—18.)



1. In an oil cloth display rack and cutting table, a table leaf; slide-ways below the leaf; arms in the slide-ways; and roller supports carried by the arms and adapted to extend beyond the edge of the leaf.

1,352,398. NEWSPAPER-HOLDER. JAN BARTUSEL, Youngstown, Ohio. Filed Oct. 15, 1919. Serial No. 330,780. 2 Claims. (Cl. 129—36.)



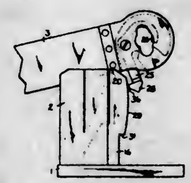
1. A paper holder comprising a stem, a handle extending therefrom, a plate element formed on the end of said handle, clips secured on said stem, a pair of open wire frames hingedly engaged in said clips, a rod engaged with the outer end of one of said frames, a second rod pivoted with the first named rod, a head adapted to engage the two rods when in close relation, and a slide movable over said head whereby said rods are held in said head.

1,352,399. METHOD OF TREATING ZINC-BEARING ORES. FRANK K. CAMERON and JOHN A. CULLEN, Salt Lake City, Utah, and REED W. HYDE, New York, N. Y., assignors to American Smelting & Refining Company, Salt Lake City, Utah, a Corporation of New Jersey. Filed July 17, 1917. Serial No. 181,169. 1 Claim. (Cl. 23—13.)

The method of treating zinc-bearing ores, which consists in converting the zinc component of the ore into sulfate, adding thereto an alkali-metal chlorid in proportion at least sufficient to transform the zinc sulfate into chlorid and to form therewith a crystallizable double halid salt, and crystallizing the said double halid from the solution.

1,352,400. ELECTRIC SWITCH. PHILIP H. CHASE, East Orange, N. J. Filed Feb. 28, 1916. Serial No. 80,923. 20 Claims. (Cl. 200—169.)

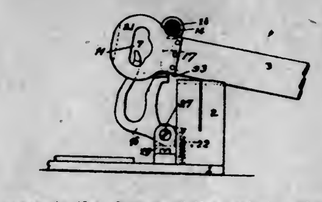
1. An electric switch combining a blade apertured to



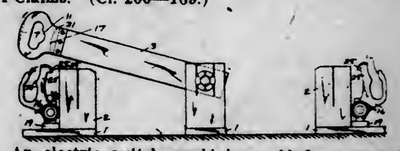
receive an operating implement, a contact-block, contact clips mounted thereon to coöperate with said blade, and means adjacent the contact clips for preventing removal of the implement during a predetermined range of the movement of the blade.

1,352,401. ELECTRIC SWITCH. PHILIP H. CHASE, East Orange, N. J. Filed June 1, 1916. Serial No. 101,109. 16 Claims. (Cl. 200—169.)

1. An electric switch combining a blade having a bracket substantially in the plane of the blade, said bracket being apertured to receive a hook, contact clips coöperating with said blade, a lock for holding the switch closed, means whereby the operation of the hook in the aperture in blade-opening direction releases the lock to permit the opening of the switch, and means whereby the lock normally prevents the closing of the switch unless the hook is in the aperture.

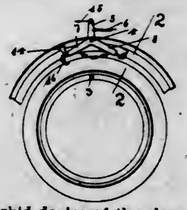


1,352,402. ELECTRIC SWITCH. PHILIP H. CHASE, East Orange, N. J. Filed Mar. 1, 1916. Serial No. 81,415. 14 Claims. (Cl. 200—169.)



1. An electric switch combining a blade apertured to receive a hook provided with a nose, a contact-block, contact clips mounted thereon to coöperate with said blade, and a lock comprising a latch mounted on the contact-block, said latch comprising means for preventing removal of the hook during a predetermined range of the movement of the blade.

1,352,403. ANTISKID DEVICE. WILLIAM C. CUTLER, North Glendale, Calif. Filed Jan. 30, 1917. Serial No. 145,521. 9 Claims. (Cl. 152—14.)



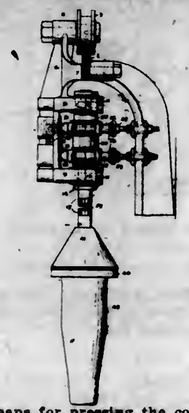
3. In an anti-skid device of the class described, in combination with the fender of a vehicle and the wheel of such vehicle, a receptacle disposed at the underside of the fender along the curves of the wheel, a chain removably disposed in the receptacle, engaging means on the wheel, double levers disposed near the receptacle and near the wheel removably engaged with both ends of the chain, and operating means for engaging the chain with the engaging means on the wheel.

1,352,404. METHOD AND APPARATUS FOR DRYING PULP HOLLOW WARE. JOHN J. ELDRIDGE and GUY A. DUNN, Oakland, Calif. Filed June 12, 1916, Serial No. 103,150. Renewed July 28, 1920. Serial No. 399,636. 7 Claims. (Cl. 92—54.)

1. The process of drying a series of bodies which consists in bodily moving each body in a path parallel with, and adjacent to, electrical conductors and causing electricity to pass from one to the other of said conductors and closely adjacent to each moving body to heat the same.

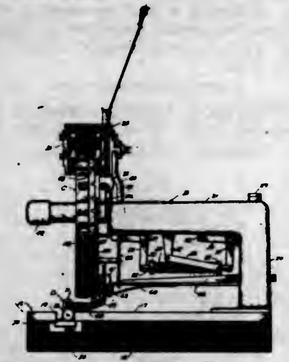
7. In a device of the character described, two conductors extending along side each other, a standard for supporting said conductors, a trolley rail supported by said standard, a trolley wheel movable on said trolley rail, a hanger supported from said wheel, a tube having bearings in said hanger, a hollow core suspended from said tube,

high resistance wire within the core, conductors connected to the ends of said wire and extending through said tube, rotatable contact carriers on said tube, contacts carried



thereby, and means for pressing the contacts against the first-named conductors, the other ends of the last-named conductors being connected to said carriers.

1,352,405. WRITING-MACHINE. HJALMAR ELMBLAD, Chicago, Ill. Filed July 28, 1919. Serial No. 313,678. 7 Claims. (Cl. 197—47.)



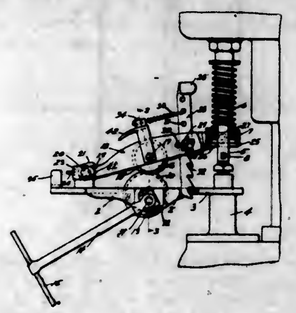
1. In a printing machine, the combination of a base; a movable carriage for paper thereon; a rotatable type wheel movable so as to be depressed and engage said paper for printing, said type wheel having spacing notches on the rim thereof corresponding to just spacing; spacing means comprising a horizontally pivoted arm having a finger to engage with said notches, means tending to swing said arm, means to permit movement of said arm upon depression of said wheel and to return said arm upon elevation of said wheel, and a clutch for moving said carriage in one direction connected to said arm.

1,352,406. SAFETY-STIRRUP. WILLIAM RICHARD GRIMM, Los Angeles, Calif. Filed Oct. 16, 1917. Serial No. 196,938. 2 Claims. (Cl. 54—49.)



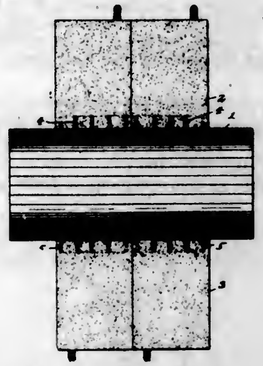
1. A safety stirrup comprising a hanger member, a tread member pivotally connected with the hanger member and a hood member pivotally connected with the hanger member in position to lie at times in cooperative relation to the tread of the tread member.

1,352,407. VALVE-SPRING LIFTER. GUSTAVIUS GUINAND, Los Angeles, Calif. Filed Dec. 11, 1919. Serial No. 344,169. 8 Claims. (Cl. 29—86.3.)



1. A valve spring lifting device comprising a base member having a tongue to straddle or rest upon a supporting part, a lifting lever connected at one end to the base member and having at the other end above the tongue a yoke to take around a valve stem below the spring, a spring latch mounted on one of the parts to engage the other and support it against the load of the spring, and a manually operable cam mounted upon the base member for jacking up the lever.

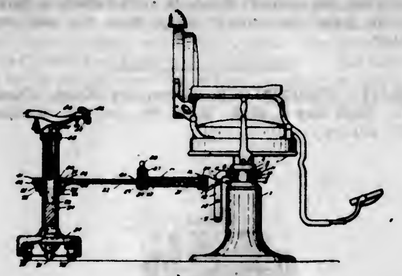
1,352,408. COMMUTATOR-BRUSH. WILLIAM C. HOOD, Chicago, Ill. Filed Oct. 28, 1918. Serial No. 259,889. 2 Claims. (Cl. 171—325.)



2. A commutator brush having on its contacting surface a plurality of diagonally extending spaced apart parallel open-ended notches, one end of one notch lying in substantially the same transverse plane as the opposite end of the adjacent notch.

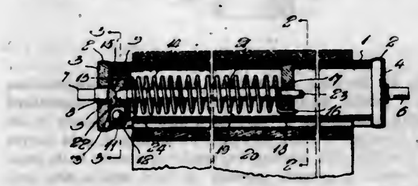
1,352,409. TRAVELING STOOL ATTACHMENT FOR BARBERS' CHAIRS. EDWARD W. HOEFENER, Los Angeles, Calif. Filed July 17, 1919. Serial No. 311,611. 3 Claims. (Cl. 155—81.)

2. In a traveling stool attachment for a chair having a central supporting post, a swivel construction mounted upon the supporting post of the chair, a hitching bar comprising a tubular member connected with the swivel construction and a bar adapted to telescope with the tubular member, a spring latch mounted on the outer end of the tubular member adapted to bear resiliently upon the telescoping member, and a stool fixed swivelly to the outer end of the bar having a seat and casters for the stool



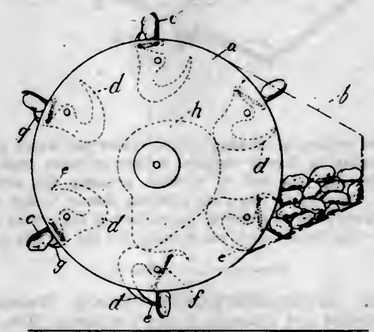
whereby the stool may be rotated about the chair or rolled toward or away from the chair by a bracing pressure of the feet upon the floor.

1,352,410. SHADE-ROLLER. DOCK GLEN HORTON, Birmingham, Ala. Filed Aug. 28, 1919. Serial No. 320,351. 5 Claims. (Cl. 156—36.)



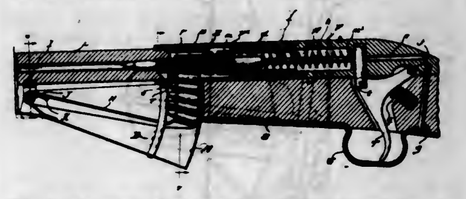
5. A shade roller comprising two end members, one of said members carrying a cylindrical pintle and the other having an opening, a single sheet of metal bent into tubular form with its ends secured to the edges of said end members, the edges of said metal sheet being overlapped and stamped inwardly to provide an internal rib and to form anchoring means for the upper end of the shade, a non-rotating pintle passing loosely through the aforesaid opening, a spring in said shell connected at one end to said non-rotating pintle, a disk in said shell attached to the other end of the spring and having a peripheral notch receiving said rib, and means for holding the roller in adjusted position.

1,352,411. MACHINE FOR PLANTING POTATOES AND OTHER SEED. JOHN HUTTON, Gibliston, Colinsburgh, Scotland. Filed June 22, 1920. Serial No. 390,957. 7 Claims. (Cl. 221—127.)



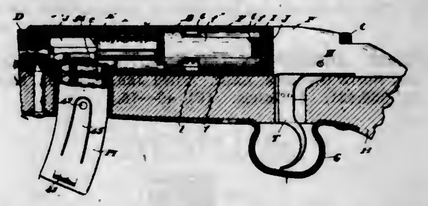
1. In a machine for planting seed such as potatoes and of the kind in which the seed is carried in a hopper mounted upon wheels, the combination of a rotatable drum, elements pivotally mounted on the drum, each element being provided at opposite ends with fingers adapted at different predetermined times to extend beyond the periphery of the drum, springs controlling the elements, carriers projecting from the periphery of the drum, and a non-rotating cam adapted to move the elements against the action of the springs, and to rock said elements on their pivots and project the respective fingers beyond the periphery of the drum.

1,352,412. GUN. OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,201. 10 Claims. (Cl. 42—3.)



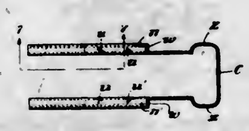
10. A gun comprising a receiver having a circular bolt chamber, a bolt arranged in said chamber to reciprocate into and out of breech closing position and at the forward end of its reciprocation to rotate into and out of locked position, the bolt and receiver being concentric and being separated throughout a part of their length by an annular space, bolt and receiver abutments disposed in said space, the receiver abutments lying in the rear of the bolt abutments when the bolt is in locked position, and a combined tension and torsion spring arranged to reciprocate the closure forwardly by its tension and bring the bolt abutments into advance of the receiver abutments by its torsion.

1,352,413. GUN. OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,202. 12 Claims. (Cl. 42—3.)



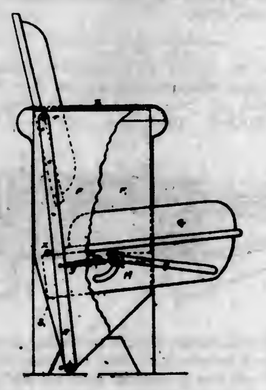
1. A gun comprising a frame and a breech bolt reciprocatably mounted in the frame, the frame and bolt having forwardly and rearwardly extending fingers respectively adapted to interfit and guide the bolt in its reciprocatory movement.

1,352,414. BREECH LUBRICATION. OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Original applications filed Mar. 14, 1919, Serial No. 282,642, and May 15, 1919, Serial No. 297,283. Divided and this application filed Aug. 18, 1919. Serial No. 318,203. 21 Claims. (Cl. 42—1.)



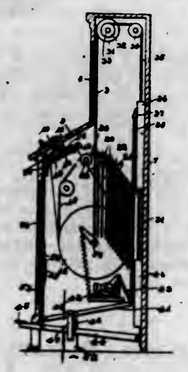
1. A gun comprising a receiver having a bolt chamber, a bolt movable in said chamber, and a device having a lubricant-carrying body removably disposed in said chamber in position to contact with the bolt when retracted.

1,352,415. AUDITORIUM, ASSEMBLY-ROOM, OR THEATER CHAIR OR BENCH. JOHN PAUL SATTERLEE, Klamath Falls, Oreg. Filed Apr. 24, 1919. Serial No. 292,521. 1 Claim. (Cl. 155—115.)



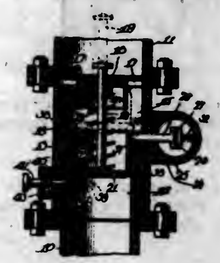
In a chair of the class described, a pair of supporting standards, side panels, links pivotally connected at their lower ends to the side panels and at their upper ends to the supporting standards; a back, a seat, said seat being pivotally connected to said side panels, side members carried by said seat and having angularly disposed slots therein, one of said slots being arcuate for vertical movement of the seat about its pivot; a bolt connecting the side standards and passing through said slots so that engagement between the bolt and slots will allow the seat to move rearwardly or upwardly, and a retractile spring connected to the links and to said bolt to cause the seat to resume a normal position when moved therefrom.

1,352,416. DIRECTORY-MACHINE. WILLIAM C. CUTLER, North Glendale, Calif. Filed Jan. 9, 1920. Serial No. 350,421. 6 Claims. (Cl. 40—78.)



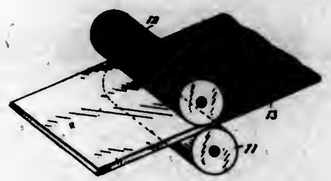
1. In a directory device of the class described, resilient means provided between the outwardly projecting foot pedal and a member of the inner mechanism so as to allow a slow following of such member of the inner mechanism when the foot pedal is operated quickly, and locking means operatively disposed in relation to the same foot pedal and the same inner member so as to lock the foot pedal when the resilient means is overstrained by moving the foot pedal too quickly away from the said inner member.

1,352,417. ENGINE-LOCK. GOTTHARDT KOCH, Chicago, Ill. Filed May 3, 1919. Serial No. 294,420. 9 Claims. (Cl. 251—6.)



1. In an internal combustion engine, the combination with an intake manifold fitting, of a device associated therewith and spring pressed to a position wherein it obstructs passage of fluid through the manifold, said device being mounted for suction induced movement to a position wherein it permits passage of fluid, and a key controlled lock-operated bolt mounted for actuation into the path of movement of said device to prevent, at will, the movement of the device from its obstructing position.

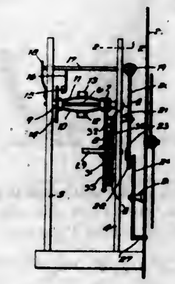
1,352,418. METHOD OF MAKING STORAGE-BATTERY JARS. HARRY L. BOYER, Trenton, N. J., assignor to Jos. Stokes Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Aug. 6, 1917. Serial No. 184,560. 4 Claims. (Cl. 18—56.)



4. The method of making a hard rubber jar which comprises applying plastic uncured rubber in sheet form to the sides and one end of a core, pressing the rubber against the core by applying pressing means to the rubber with air pockets between the surface of the rubber and the pressing means, and vulcanizing the jar on the core.

1,352,419. SPEED-REGULATING DEVICE. WALTER J. HERSCHEDE and CHARLES COHAN, Cincinnati, Ohio, assignors to The Herschede Hall Clock Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 2, 1917. Serial No. 178,086. 1 Claim. (Cl. 74—45.)

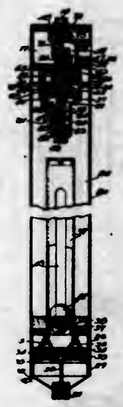
A speed regulating device comprising a chime mechanism, a shaft rotatively mounted adjacent to the chime mechanism, a pinion mounted on the shaft and connected with the chime mechanism, adapted to rotate the shaft during operation of the mechanism, a device mounted on the shaft and responsive to the centrifugal force of rotation thereof, a second shaft reciprocally mounted adjacent to said shaft, a friction cushion mounted on the second shaft and adapted to be engaged by the centrifugal device during operation thereof, a spring engaging one end of the second mentioned shaft and adapted to retain



the second mentioned shaft in a position such that the cushion permits of maximum speed of rotation of the centrifugal device, an inclined plate adapted to engage the opposite end of the second mentioned shaft and to be moved to different positions to reciprocate the second mentioned shaft against the tension of the spring, and means accessible from the front of the clock adapted to move the inclined plate to its different positions.

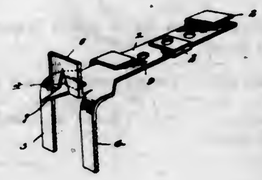
REISSUES.

14,946. PUMP AND PUMPING SYSTEM. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Original No. 1,253,558, dated Jan. 15, 1918, Serial No. 51,524, filed Sept. 20, 1915. Application for reissue filed Dec. 1, 1919. Serial No. 341,805. 79 Claims. (Cl. 103—8.)



1. In a pump, a water chamber, an auxiliary chamber having inlet and outlet valves said auxiliary chamber being connected with said water chamber, an exhaust port for said water chamber, a compressed air port for said water chamber, valves for said ports, pressure means for operating said valves, one side of said pressure means being exposed to the pressure in said auxiliary chamber to close the exhaust port and open the compressed air port, and the other side being exposed to the pressure in said water chamber to open the exhaust port and close the compressed air port, and a valve for controlling the connections between said chambers.

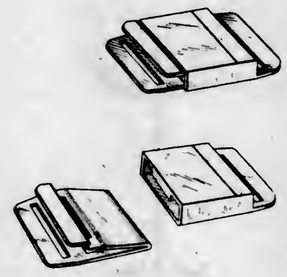
14,947. TAPE ATTACHMENT. MARCUS H. BALLOU, Pittsburgh, Pa. Original No. 1,303,756, dated May 13, 1919, Serial No. 211,612, filed Jan. 12, 1918. Application for reissue filed Nov. 19, 1919. Serial No. 339,252. 4 Claims. (Cl. 33—137.)



1. A tape attachment having a body and means for the connection of a tape ring and also having cleats extending from one edge of the body and spaced from a common side thereof and also spaced from each other and a cleat reaching from the other edge of the body at a point between and spaced from the inner ends of the first-named cleats, whereby a tape may be introduced edgewise laterally between the cleats to be retained against causal lateral displacement by said cleats coöperating with said side of the body.

DESIGNS.

56,246. BUCKLE. LOUIS ALTERSON, Averne, N. Y. Filed June 29, 1920. Serial No. 392,893. Term of patent 14 years.



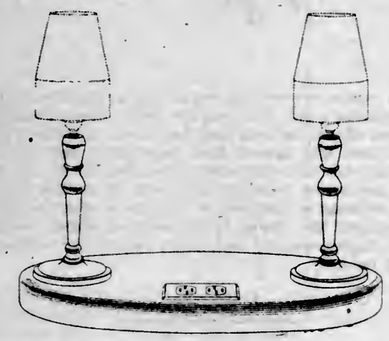
The ornamental design for a buckle as shown.

56,247. RUBBER ERASER-HEAD FOR LEAD-PENCILS. EBERHARD FABER, New York, N. Y. Filed Apr. 29, 1920. Serial No. 377,719. Term of patent 14 years.



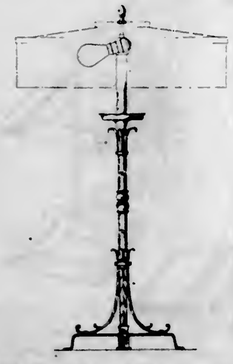
The ornamental design for a rubber eraser head for lead pencils as shown.

56,248. COMBINED CANDELABRUM AND ELECTRIC TERMINAL. CLINTON B. FERGUSON, Newtonville, Mass. Filed Nov. 7, 1919. Serial No. 336,479. Term of patent 14 years.



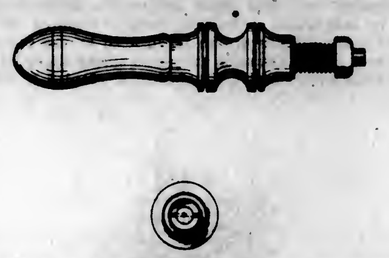
The ornamental design for a combined candelabrum and electric terminal, substantially as shown and described.

56,249. ELECTRIC FLOOR-LAMP. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,331. Term of patent 3½ years.



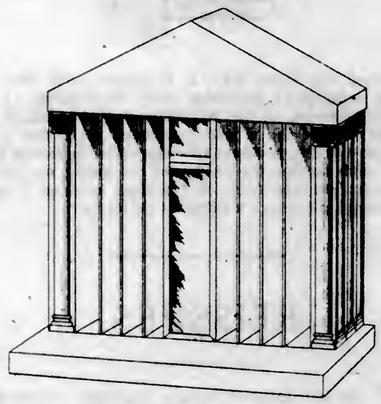
The ornamental design for an electric floor lamp, as shown.

56,250. SHARPENER FOR KNIVES. MARTIN T. GRAF, Buffalo, N. Y. Filed May 1, 1920. Serial No. 378,201. Term of patent 14 years.



The ornamental design for a sharpener for knives, as shown.

56,251. CASING FOR A VENDING-MACHINE. FRANK R. GREENE, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 351,055. Term of patent 14 years.



The ornamental design for a casing for a vending machine as shown.

56,252. JAR. COULTER D. HUYLER, Greenwich, Conn., assignor to Huyler's Inc., New York, N. Y., a Corporation of New York. Filed Jan. 2, 1920. Serial No. 349,060. Term of patent 14 years.



The ornamental design for a jar, substantially as shown.

56,253. ARM FOR LIGHTING-FIXTURES. STEPHEN KOSTSZEWSKI, New York, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Apr. 9, 1920. Serial No. 372,673. Term of patent 7 years.



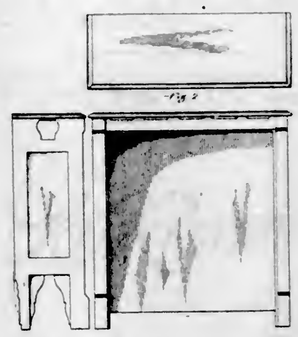
The ornamental design for an arm for lighting fixtures, as shown.

56,254. TOILET-PAPER HOLDER. WILLIAM L. LEE, Helena, Mont. Filed Apr. 26, 1920. Serial No. 376,875. Term of patent 7 years.



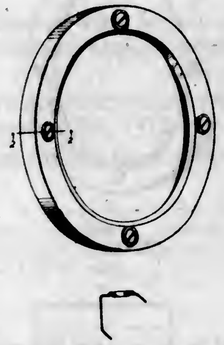
The ornamental design for a toilet paper holder, as shown.

56,255. RADIATOR-INCLOSURE. DAVID C. MOORE, Cleveland, Ohio. Filed Apr. 15, 1920. Serial No. 374,240. Term of patent 14 years.



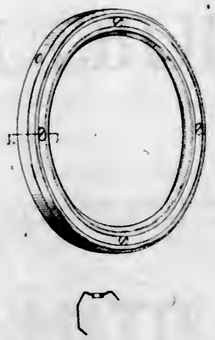
The ornamental design for a radiator inclosure, as shown.

56,256. RIM FOR A VEHICLE-LAMP OR SIMILAR ARTICLE. CHARLES D. RYDER, Covington, Ky., assignor to The Corcoran-Victor Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 21, 1919. Serial No. 298,804. Term of patent 14 years.



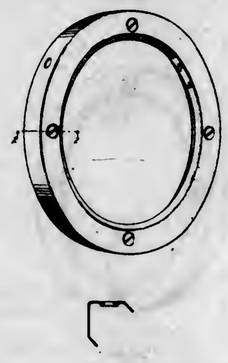
The ornamental design for a rim for a vehicle lamp or similar article, as shown.

56,257. RIM FOR A VEHICLE-LAMP OR SIMILAR ARTICLE. CHARLES D. RYDER, Covington, Ky., assignor to The Corcoran-Victor Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 21, 1919. Serial No. 298,805. Term of patent 14 years.



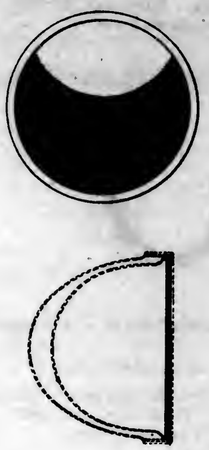
The ornamental design for a rim for a vehicle lamp or similar article, as shown.

56,258. RIM FOR A VEHICLE-LAMP OR SIMILAR ARTICLE. CHARLES D. RYDER, Covington, Ky., assignor to The Corcoran-Victor Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 21, 1919. Serial No. 298,806. Term of patent 14 years.



The ornamental design for a rim for a vehicle lamp or similar article, as shown.

56,259. AUTOMOBILE-LENS. ARTHUR SENGER, Milwaukee, Wis. Filed Apr. 26, 1920. Serial No. 376,884. Term of patent 3½ years.



The ornamental design for an automobile lens, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 7, 1920.

[PUBLISHED SEPTEMBER 8, 1920.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 103,510. (CLASS 37. PAPER AND STATIONERY.) PARAGON BINDER CORPORATION, New York, N. Y., and Newark, N. J. Filed May 3, 1917.

PARAGON

Particular description of goods.—Binders for Loose Sheets of Paper and the Like.
Claims use since Apr. 2, 1917.

Ser. No. 108,460. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SUMELLOR COMPANY, Worcester, Mass. Filed Jan. 14, 1918.

SUMELLOR

Particular description of goods.—An Ointment for the Treatment of Eczema and other Skin Diseases.
Claims use since Dec. 15, 1917.

Ser. No. 113,453. (CLASS 39. CLOTHING.) LINEHAM-CONOVER COMPANY, Worcester, Mass. Filed Sept. 27, 1918.

La Regente

Consists of the French word "Regente" prefixed by the French article "La," both printed in script letters, as represented in the accompanying drawing.
Particular description of goods.—Corsets, Corset-Waists, and Brassières.
Claims use since 1909.

Ser. No. 113,929. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DOUGLAS COMPANY, Cedar Rapids, Iowa. Filed Oct. 29, 1918.



Particular description of goods.—Corn-Oil.
Claims use since Jan. 15, 1918.

Ser. No. 116,774. (CLASS 15. OILS AND GREASES.) THE HULBERT OIL & GREASE CO., Philadelphia, Pa. Filed Mar. 21, 1919. Under ten-year proviso.

HULBURT

Particular description of goods.—Lubricating Oils and Greases.
Claims use since about 1861.

Ser. No. 117,469. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MATO MFG. CO., New York, N. Y. Filed Apr. 14, 1919.

MATO

Particular description of goods.—Washing-Powders.
Claims use since Jan. 1, 1919.

Ser. No. 118,621. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France. Filed May 17, 1919.

LE LION BLANC

Particular description of goods.—Bleaching Compounds, and Powder.
Claims use since March, 1916.

Ser. No. 118,630. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ULTRAMARINE COMPANY, Jersey City, N. J., and New York, N. Y. Filed May 17, 1919.



The background being indicated in blue. No claim is made to the exclusive use of the words "Laundry Blue" or "Manufactured by" or "New York" except in so far as they may form part of the particular collocation.
Particular description of goods.—Bluing.
Claims use since January, 1906.

Ser. No. 118,932. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE PIERSON COMPANY, Rockford, Ill. Filed May 26, 1919.

DIAP-A-WASH

Particular description of goods.—A Combined Wringer and Washboard in the Form of a Unitary Article.
Claims use since May, 1917.

Ser. No. 119,074. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) KRASBERG ENGINEERING AND MANUFACTURING CORPORATION, Chicago, Ill. Filed May 31, 1919.

KRASCO

Particular description of goods.—Phonograph-Motors, (Mechanical.)
Claims use since Nov. 1, 1915.

Ser. No. 119,374. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ST. LOUIS BRASS MANUFACTURING COMPANY, St. Louis, Mo. Filed June 9, 1919.

E-LITE

Particular description of goods.—Fixtures for Electric Lights.
Claims use since May 20, 1919.

Ser. No. 120,530. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GEM HAMMOCK & FLY NET COMPANY, Milwaukee, Wis. Filed July 14, 1919.



Particular description of goods.—Polish for Furniture, Automobiles, Floors, Woodwork, &c.
Claims use since May 28, 1917.

Ser. No. 122,242. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) RONALD E. BOOTH, Seattle, Wash. Filed Sept. 3, 1919.

GOOSEY CAR

Applicant hereby disclaims the exclusive right to the use of the word "Car" apart from the mark shown in the drawing.
Particular description of goods.—Toy Velocipedes.
Claims use since Nov. 15, 1917.

Ser. No. 123,773. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CREOLE PRALINE CO. INC., New Orleans, La. Filed Oct. 14, 1919.



No claim is made to the words "Creole Praline" apart from the mark shown in the drawing.
Particular description of goods.—Candy.
Claims use since Sept. 10, 1919.

Ser. No. 124,355. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PERCY PIERCE, Philadelphia, Pa. Filed Oct. 30, 1919.

ARROW PLANE

Particular description of goods.—Toy Aeroplanes.
Claims use since May 24, 1912.

Ser. No. 124,693. (CLASS 39. CLOTHING.) SLONIM BROTHERS, Duluth, Minn. Filed Nov. 8, 1919.

HEAD OF LAKES

Particular description of goods.—Women's and Children's Knitted Hose, Knitted or Textile One, Two, and Three Piece Underwear, and Knitted Sweaters, Dresses and Aprons; Men's Caps, Canvas and Leather Gloves and Mittens, Neckties, Dress-Shirts, Negligée Shirts, Work-Shirts, and Undershirts, Shirt-Collars, Leather Vests and Coats, and Overalls.
Claims use since Nov. 4, 1919.

Ser. No. 126,133. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MADISON-KIPP CORPORATION, Madison, Wis. Filed Dec. 16, 1919.

Oil-Kipps

No claim is made to the word "Oil."
Particular description of goods.—Mechanical Lubricators, Oil-Cups, and Grease-Cups.
Claims use since Jan. 8, 1919.

Ser. No. 126,139. (CLASS 12. CONSTRUCTION MATERIALS.) THE RODD COMPANY, Pittsburgh, Pa. Filed Dec. 16, 1919.

CREOLIGNUM

No claim is made to the words "Wood Block Flooring," "Trade Mark Registered" and "Creosoted Wood Products," as they form no part of the trade-mark.
Particular description of goods.—Blocks, Ties, Cross-Arms, Conduits, Bridge-Timbers, Fenceposts, and Telegraph-Poles, All Made of Wood.
Claims use since Aug. 1, 1919.

Ser. No. 126,354. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDSON MOORE & COMPANY, Detroit, Mich. Filed Dec. 23, 1919.

SLEEPY HOLLOW

Particular description of goods.—Manufactured Blankets of All Cotton, Cotton and Wool, and All Wool.
Claims use since May 1, 1907.

Ser. No. 126,564. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DURAN & DAVALOS, New York, N. Y. Filed Dec. 29, 1919.

BANANETS

Particular description of goods.—Evaporated Bananas.
Claims use since Dec. 11, 1919.

Ser. No. 126,737. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) METALMEND MANUFACTURING CO. INC., Brooklyn, N. Y. Filed Jan. 2, 1920.

Silverite

Particular description of goods.—A Silver-Plating Compound.
Claims use since Dec. 20, 1919.

Ser. No. 127,048. (CLASS 39. CLOTHING.) EDWIN J. FEISEL, San Francisco, Calif. Filed Jan. 12, 1920.

everything but the baby

Particular description of goods.—The Following Infants' and Children's Articles: Short and Long Flannel Skirts, Lawn Skirts, Plain and Fancy Dresses, Cashmere Robes, Knitted Sacks, Leggings, Bootees, Lawn and Gingham Dresses; Millinery—Namely, Babies' and Children's Straw, Fabric, Silk, and Velvet Hats; Knit and Velvet Tams, Corset-Waists, Boudoir-Caps, Knit Underwear, Flannel and Rubber Diapers, Bath-Robes, Silk Long Dress Sets, Bloomers, Coats, Sweaters, Mittens, Rompers, Silk Bonnets, Gowns, Leather and Fabric Shoes, Sleeping-Garments, Aprons, Pajamas, Bibs, Slips, Lawn Caps, Silk Dresses, Cashmere Sacks, Capes, Sweater Sets, Leather and Fabric Gloves, Creepers, Sunbonnets, Hoods, Wrappers, Drawers, Princess-Slips, Stockings, and Socks; Boys' Clothing—Namely, Suits of Woolen and Cotton Fabric, and Separate Pants of Cotton and Wool Fabrics.
Claims use since 1918.

Ser. No. 127,239. (CLASS 12. CONSTRUCTION MATERIALS.) THE CROOKS-DITTMAR CO., Williamsport, Pa. Filed Jan. 17, 1920.

CROMAR

Particular description of goods.—Wood Flooring.
Claims use since on or about July 1, 1919.

Ser. No. 127,246. (CLASS 8. SMOKER'S ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) THE HOUSE OF WILLIS, INC., New York, N. Y. Filed Jan. 17, 1920.



Particular description of goods.—Pipes, Cigarette-Holders, Tobacco-Pouches, Not of Precious Metals.
Claims use since Jan. 1, 1920.

Ser. No. 127,257. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) JOHN ORMEROD & SONS LTD., Castleton, England. Filed Jan. 17, 1920.



Particular description of goods.—Leather Goods for Use in Looms and Textile Machinery, Comprising Roller-Skins, Picking-Bands, and Buffalo-Hide Pickers.
Claims use since July 21, 1886.

Ser. No. 127,259. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN ORMEROD & SONS LTD., Castleton, England. Filed Jan. 17, 1920.



CRUSADER BRAND

Applicant hereby disclaiming the use of the word "Brand" as a trade-mark apart from the other features of the mark illustrated in the drawing.
Particular description of goods.—Leather Goods for Use in Looms and Textile Machinery, Comprising Roller-Skins, Picking-Bands, and Buffalo-Hide Pickers.
Claims use since Oct. 10, 1908.

Ser. No. 127,289. (CLASS 37. PAPER AND STATIONERY.) SAMUEL JONES & COMPANY, Newark, N. J. Filed Jan. 19, 1920.



Particular description of goods.—Paper Coated on One Side with Mucilage and Used for Labels, &c., Book and Box-Cover Paper Coated and Embossed to Imitate Leather, Book and Box Cover Paper Coated to Imitate Marble, Book and Box Cover Paper Coated with Clay to Produce an Enamel Effect, and Paper Used for Printing, Lithographing, and Writing Purposes.
Claims use since Oct. 1, 1919.

Ser. No. 127,433. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HARVEY M. LEWIS, Atwood, Ill. Filed Jan. 21, 1920.

HIMMEL
HML

Particular description of goods.—Non-Alcoholic Maltless Beverages Sold as Soft Drinks.
Claims use since Jan. 15, 1920.

Ser. No. 127,603. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ONEIDA COMMUNITY LIMITED, Oneida, N. Y. Filed Jan. 23, 1920.

ONEIDA COMMUNITY PAR PLATE

No claim being made for the word "Plate" apart from the mark shown on the drawing.
Particular description of goods.—Silver-Plated Flat-Ware and Silver-Plated Tableware.
Claims use since on or about Mar. 11, 1915.

Ser. No. 127,826. (CLASS 38. PRINTS AND PUBLICATIONS.) NEPHTALIE KAHN-LANG, Rouen, France. Filed Jan. 31, 1920.

PICTURAMA

Particular description of goods.—Pictures.
Claims use since Jan 23, 1914.

Ser. No. 127,827. (CLASS 38. PRINTS AND PUBLICATIONS.) NEPHTALIE KAHN-LANG, Rouen, France. Filed Jan. 31, 1920.



Particular description of goods.—Pictures.
Claims use since Jan. 23, 1914.

Ser. No. 128,030. (CLASS 38. PRINTS AND PUBLICATIONS.) SEBASTIAN V. D'UNGER, Fall River, Mass. Filed Feb. 5, 1920.

CERTIFIED CHECOUPON

No claim being made to the word "Certified" apart from the mark shown.
Particular description of goods.—Trading-Stamps or Coupons.
Claims use since Nov. 1, 1919.

Ser. No. 128,273. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. O. PROBST & Co., New York, N. Y. Filed Feb. 11, 1920.

SIROPIA BRAND

No claim is made to the word "Brand" apart from the trade-mark.
Particular description of goods.—Maltose, Glucose, and other Kinds of Syrup for Food-Flavoring Purposes.
Claims use since on or about Jan. 29, 1920.

Ser. No. 128,300. (CLASS 39. CLOTHING.) EVANS MFG. Co., Cedar Rapids, Iowa. Filed Feb. 12, 1920.



Particular description of goods.—Work-Clothing.
Claims use since Jan. 1, 1916.

Ser. No. 128,338. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALLAIRE, WOODWARD & Co., Peoria, Ill. Filed Feb. 13, 1920.

HELOX

Particular description of goods.—Antiseptic Healing-Powder and an Antiseptic Healing-Powder Veterinary.
Claims use since Jan. 1, 1920.

Ser. No. 128,376. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WINGATE'S SALVO MANUFACTURING CO., INC., Asheville, N. C. Filed Feb. 13, 1920.

SELVOC

Particular description of goods.—Ointment Used in the Treatment of Pulmonary Diseases.
Claims use since February, 1919.

Ser. No. 128,387. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOMER H. HALL, Twin Falls, Idaho. Filed Feb. 14, 1920.

INFLUZONE

Particular description of goods.—Antiseptic for Infections.
Claims use since Nov. 25, 1919.

Ser. No. 128,400. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NORFOLK CHEMICAL COMPANY, Philadelphia, Pa. Filed Feb. 14, 1920.

PROSIL

Particular description of goods.—Colloidal Metallic Silver Medicine for the Treatment of Infections of the Mucous Membrane.
Claims use since on or about June 10, 1919.

Ser. No. 128,404. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE PAQUIN, Detroit, Mich. Filed Feb. 14, 1920.

TREO

Particular description of goods.—Scalp and Mange Remedy.
Claims use since Aug. 1, 1919.

Ser. No. 128,412. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SINCLAIR PHARMACAL CO. INC., New York, N. Y. Filed Feb. 14, 1920.

BOROLEUM

Particular description of goods.—Nasal Ointment.
Claims use since Jan. 6, 1920.

Ser. No. 128,418. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio. Filed Feb. 14, 1920.

MERCOLAX

Particular description of goods.—Phenolphthalein Tablets.
Claims use since Jan. 15, 1920.

Ser. No. 128,419. CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio. Filed Feb. 14, 1920.

BENZOVULES

Particular description of goods.—Soft Elastic Capsules of Benzol Benzoate.
Claims use since Jan. 15, 1920.

Ser. No. 128,433. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK D. FENNER, Cranston, R. I. Filed Feb. 16, 1920.



Particular description of goods.—Disinfectant, Deodorizer, Germicide, Antiseptic, and Insecticide.
Claims use since Sept. 1, 1919.

Ser. No. 128,487. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT LATTA CROWE, Memphis, Tenn. Filed Feb. 17, 1920.

SILOQUIN

Particular description of goods.—A Chemical Compound Consisting of a Combination of Silver and Quinin Having the Irritating and Astringent Qualities of the Silver Reduced to a Minimum.
Claims use since Dec. 1, 1912.

Ser. No. 128,575. (CLASS 38. PRINTS AND PUBLICATIONS.) OSCAR H. WILL & Co., Bismarck, N. D. Filed Feb. 18, 1920.

WILL'S

PIONEER SEED HOUSE NURSERY & GREENHOUSES OF THE NORTHWEST

Particular description of goods.—Periodicals Issued Annually.
Claims use since Jan. 1, 1916.

Ser. No. 128,579. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. ALTMAN & Co., New York, N. Y. Filed Feb. 19, 1920.

PURITINE

Particular description of goods.—Tooth-Wash.
Claims use since 1898.

Ser. No. 128,647. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWIN H. BAKER, San Jose, Calif. Filed Feb. 20, 1920.



Particular description of goods.—Medicines for the Stomach and Liver.
Claims use since Jan. 15, 1905.

Ser. No. 128,681. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAGEMEYER TRADING COMPANY, New York, N. Y. Filed Feb. 20, 1920.

HYKLEAN

Particular description of goods.—Chemical Compound for Cleaning and Bleaching Wool.
Claims use since Sept. 1, 1919.

Ser. No. 128,702. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RUB-NO-MORE Co., Fort Wayne, Ind. Filed Feb. 20, 1920.

EGG-I-PACK



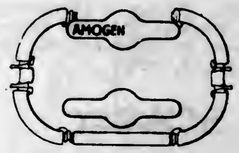
Particular description of goods.—Chemical Preparations Used for Preserving Eggs.
Claims use since August, 1919.

Ser. No. 128,725. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMMERCIAL IMPORTING COMPANY, INC., Seattle, Wash. Filed Feb. 21, 1920.

DOUGHBOY

Particular description of goods.—Baking-Powder.
Claims use since Jan. 1, 1920.

Ser. No. 128,780. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN R. HODGES, San Antonio, Tex. Filed Feb. 24, 1920.



Particular description of goods.—Antibilious Tablets.
Claims use since Jan. 1, 1920.

Ser. No. 128,787. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS MANDEL, Chicago, Ill. Filed Feb. 24, 1920.

ACORN



Particular description of goods.—Leather-Shoe Dye in all Colors.
Claims use since July 27, 1918.

Ser. No. 128,872. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TALCUM PUFF COMPANY, Brooklyn, N. Y. Filed Feb. 24, 1920.



No claim being made to the exclusive use of the words "Toilet Powder" apart from the mark as shown in the drawing.
Particular description of goods.—Talcum Powder.
Claims use since June 3, 1919.

Ser. No. 128,963. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK P. GEMINDEN, Kansas City, Mo. Filed Feb. 27, 1920.

FPG

Particular description of goods.—A Preparation for the Prevention and Treatment of Influenza.
Claims use since Feb. 14, 1920.

Ser. No. 128,966. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) INDIANA INDESTRUCTIBLE PAINT Co., Chicago, Ill. Filed Feb. 27, 1920.

FLOOR INTERIOR KOTE

No claim being made to the words "Floor and Interior Kote" apart from the mark shown on the drawing.
Particular description of goods.—Combination Floor and Interior Paint.
Claims use since Nov. 20, 1909.

Ser. No. 128,969. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) INDIANA INDESTRUCTIBLE PAINT Co., Chicago, Ill. Filed Feb. 27, 1920.

QUALITY FULLERTON PAINTS

No claim being made to the words "Quality Paints" apart from the mark shown.
Particular description of goods.—House-Paint, Mixed Paint, Flat Wall-Paint, Interior Paint, and Enamel Paint.
Claims use since Nov. 20, 1909.

Ser. No. 129,005. (CLASS 11. INKS AND INKING MATERIALS.) DE-FI MANUFACTURING COMPANY, New York, N. Y. Filed Feb. 28, 1920.

SO-LITE

Particular description of goods.—Carbon-Paper and Typewriter-Ribbons.
Claims use since June, 1908.

Ser. No. 129,121. (CLASS 2. RECEPTACLES.) STANLEY SEPTIMUS BOOTY, London, England. Filed Mar. 2, 1920.

PAM PAM

Particular description of goods.—Boxes of Cardboard, Wood, and Metal for Toilet Preparations.
Claims use since 26th of November, 1918.

Ser. No. 129,156. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) VAN CAMP HARDWARE & IRON COMPANY, Indianapolis, Ind. Filed Mar. 2, 1920.

Re-New-Oid

Particular description of goods.—Automobile, Piano, and Furniture Polish.
Claims use since Jan. 1, 1912.

Ser. No. 129,172. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DUDMAN DRUG & CHEMICAL CO., Charleston, S. C. Filed Mar. 3, 1920.

TARBAL

Particular description of goods.—Cough-Syrup.
Claims use since Jan. 1, 1920.

Ser. No. 129,361. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALLY F. WINSTON, Kansas City, Mo. Filed Mar. 6, 1920.

S. F. S.

Particular description of goods.—Hair-Grower, Pressing-Oil, Shampoo, and Face-Cream.
Claims use since Mar. 1, 1919.

Ser. No. 129,485. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ASEPTIC CHEMICAL COMPANY, Waukegan, Ill. Filed Mar. 10, 1920.



Particular description of goods.—A Foot Remedy and Corn Cure.
Claims use since Mar. 16, 1916.

Ser. No. 129,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH BRÉMONT, New York, N. Y. Filed Mar. 10, 1920.

VINCIT

Particular description of goods.—Medicinal Preparations in Capsule, Injection, and Tablet Form for Venereal Diseases.
Claims use since about Mar. 1, 1920.

Ser. No. 129,525. (CLASS 39. CLOTHING.) DAVID ADLER & SONS CO., Milwaukee, Wis. Filed Mar. 11, 1920.



Particular description of goods.—Men's and Young Men's Coats, Waistcoats, Trousers, and Overcoats.
Claims use since Feb. 10, 1920.

Ser. No. 129,609. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROCKLAND AND ROCKPORT LIME CORPORATION, Rockland, Me. Filed Mar. 12, 1920.



Particular description of goods.—Chemical Calcium Hydrated Lime.
Claims use since June 1, 1919.

Ser. No. 129,783. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HARRIS SUSPENDER COMPANY, New York, N. Y. Filed Mar. 16, 1920.

Harriside

Particular description of goods.—Garters.
Claims use since July 1, 1919.

Ser. No. 129,800. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAL MEDICINE CO., Boston, Mass. Filed Mar. 16, 1920.



Particular description of goods.—Laxative for Colds, Headaches, La Grippe, and Constipation.
Claims use since Jan. 5, 1920.

Ser. No. 129,825. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD G. BRODERICK, New York, N. Y. Filed Mar. 17, 1920.

LIBERTY

Particular description of goods.—Cleansing-Soda.
Claims use since Jan. 19, 1919.

Ser. No. 129,841. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNEST GOVETT, New York, N. Y., assignor to The Colene Laboratories, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 17, 1920.

COLLENE

Particular description of goods.—An Antiseptic Colloid Solution for the Treatment of Influenza, Hay-Fever, Colds, Sore Throat, Sore Eyes, Tonsillitis, Laryngitis, Cuts, Wounds, and Skin Troubles.
Claims use since February, 1920.

Ser. No. 129,851. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BARNEY MCCABE, San Francisco, Calif. Filed Mar. 17, 1920.

Hair-Life

Particular description of goods.—A Liquid Hair Restorer and Tonic.
Claims use since Feb. 11, 1920.

Ser. No. 130,045. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE IRVIN, JEWELL & VINSON COMPANY, Dayton, Ohio. Filed Mar. 22, 1920.
The mark being shown in red.

METAL GRIP

Particular description of goods.—Paste and Ready-Mixed Paints, Paint-Oils, and Varnishes for Metal Surfaces.
Claims use since Dec. 1, 1918.

Ser. No. 130,070. (CLASS 12. CONSTRUCTION MATERIALS.) SOUTHERN WOOD PRESERVING CO., Atlanta, Ga. Filed Mar. 22, 1920.

Creo-pine

Particular description of goods.—Wood Fenceposts, Wood Cross-Arms, Wood Conduit, Wood Paving-Blocks, Wood Floor-Blocks, Dressed Timbers, and Poles.
Claims use since Dec. 18, 1919.

Ser. No. 130,098. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES LINDON HALL, Buffalo, N. Y. Filed Mar. 23, 1920.



Particular description of goods.—Hair-Tonic.
Claims use since Feb. 28, 1920.

Ser. No. 130,157. (CLASS 37. PAPER AND STATIONERY.) CHEMICAL PAPER COMPANY, Washington, D. C. Filed Mar. 25, 1920.
The word "Products" being disclaimed.

Utiloid
PRODUCTS

Particular description of goods.—Transparent Paper and Gelatin Papers.
Claims use since January, 1920.

Ser. No. 130,453. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THOMPSON-NEAYLON MANUFACTURING CO., Chicago, Ill. Filed Mar. 31, 1920.

SUPER SERVICE

No claim is made for the words "Super Service" apart from the mark shown in the drawing. These words are lined to indicate the color red.
Particular description of goods.—Automobile-Rim Clamps, Wedges, and Bolts for Same.
Claims use since Jan. 5, 1920.

Ser. No. 130,478. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE IRVIN, JEWELL & VINSON COMPANY, Dayton, Ohio. Filed Apr. 1, 1920.
The words "Metal Grip" being shown in red.



Particular description of goods.—Paste and Ready-Mixed Paints, Paint-Oils, and Varnishes for Metal Surfaces.
Claims use since Dec. 1, 1918.

Ser. No. 130,485. (CLASS 12. CONSTRUCTION MATERIALS.) MARTIN OLSSON & SONS, London, England. Filed Apr. 1, 1920.

REFANUTE

Particular description of goods.—Rafts of Sawn or Squared Timber.
Claims use since June, 1917.

Ser. No. 130,734. (CLASS 39. CLOTHING.) STONE-TARLOW CO. INC., Brockton, Mass. Filed Apr. 6, 1920.



No claim being made to the exclusive right to the use of the expression "Brockton, Mass., U. S. A.," apart from the mark shown.
Particular description of goods.—Boots and Shoes Made from Leather, Fabric, or Rubber.
Claims use since on or about Mar. 24, 1920.

Ser. No. 130,798½. (CLASS 15. OILS AND GREASES.) BIBBY OIL COMPANY, Franklin, Pa., and New York, N. Y. Filed Apr. 8, 1920.



Particular description of goods.—Lubricating-Oils, Lubricating-Greases, Gasolene, Kerosene, Burning-Oils, and Mineral Waxes.
Claims use since Jan. 1, 1918.

Ser. No. 131,000. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) WAYNE MANUFACTURING COMPANY, St. Louis, Mo. Filed Apr. 10, 1920.



No claim being made to the exclusive use of the word "Washer" apart from the trade mark shown.
Particular description of goods.—Clothes-Washing Machines.
Claims use since Mar. 1, 1920.

Ser. No. 131,098. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION (Baltimore Bargain House), Baltimore, Md. Filed Apr. 14, 1920.

BALMAR

Particular description of goods.—Woven Underwear for Men and Boys, in One and Two Piece Garments.
Claims use since June, 1918.

Ser. No. 131,415. (CLASS 37. PAPER AND STATIONERY.) PAUL S. WARNER, Madison, Wis. Filed Apr. 20, 1920.



No claim is made to the word "System" except in the association shown.
Particular description of goods.—Printed Blank Forms for use in Business Management, Purchasing, Accounting, Bookkeeping, and also for Statements and Checks.
Claims use since Jan. 1, 1916.

Ser. No. 131,486. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEIL COMPANY, Billings, Mont. Filed Apr. 22, 1920.

Fort Yellowstone

Particular description of goods.—Coffee, Tea, Canned Corn, and Canned Tomatoes.
Claims use since March, 1917.

Ser. No. 131,490. (CLASS 39. CLOTHING.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1920. Under ten-year proviso.

BURLINGTON

Particular description of goods.—Hosiery.
Claims use since the year 1887.

Ser. No. 131,539. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RITZ SOAP CO. INC., Jersey City, N. J. Filed Apr. 23, 1920.



Particular description of goods.—Soap.
Claims use since about Jan. 25, 1920.

Ser. No. 131,600. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SWIFT AND COMPANY, Chicago, Ill. Filed Apr. 24, 1920.

Vindicator

Particular description of goods.—Soap.
Claims use since Dec. 1, 1905.

Ser. No. 131,638. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) CLARENCE A. KLINE, San Francisco, Calif. Filed Apr. 26, 1920.

GOOD LUCK

Particular description of goods.—Engagement and Wedding Rings.
Claims use since Mar. 31, 1920.

Ser. No. 131,872. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Apr. 30, 1920.

Denisette

Particular description of goods.—Silk, Linen, Woolen, and Cotton Piece Goods, and Combinations Thereof.
Claims use since Oct. 15, 1919.

Ser. No. 131,943. (CLASS 12. CONSTRUCTION MATERIALS.) CROOKS-DITTMAR CO., Williamsport, Pa. Filed May 3, 1920.

CROMAR

Particular description of goods.—Wood Flooring.
Claims use since on or about Apr. 1, 1920.

Ser. No. 132,063. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RUDOLPH SPITZER, New York, N. Y. Filed May 5, 1920.



Applicant hereby disclaims the exclusive right to the word "Fabrics" apart from its use in connection with the mark as shown, and the applicant hereby disclaims the exclusive right to the representation of a roll of cloth apart from the mark as shown.
Particular description of goods.—Woolen Piece Goods and Worsted Piece Goods, Worsted and Cotton Piece Goods, Worsted Woolen Piece Goods, Fancy Worsted Piece Goods, and Decorated Worsted Piece Goods.
Claims use since about Dec. 24, 1919.

Ser. No. 132,070. (CLASS 38. PRINTS AND PUBLICATIONS.) WILLIAM H. ALSTON, Birmingham, Ala. Filed May 6, 1920.

THE ARMY & NAVY RECORD

Particular description of goods.—Quarterly Magazine.
Claims use since July, 1919.

Ser. No. 132,328. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED PUBLISHERS CORPORATION, New York, N. Y. Filed May 11, 1920.

Hardware Age

Particular description of goods.—A Weekly Periodical of the Hardware Trade.
Claims use since May, 1913.

Ser. No. 132,330. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE VIBROPLEX COMPANY, INC., New York, N. Y. Filed May 11, 1920.

BUG

Consisting of the word "Bug."
Particular description of goods.—Telegraphic Sending-Machines.
Claims use since on or about Mar. 1, 1919.

Ser. No. 132,568. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIMON STRAUS, Portsmouth, Ohio. Filed May 17, 1920.



The word "Bread" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Bread.
Claims use since about May 1, 1920.

Ser. No. 132,708. (CLASS 39. CLOTHING.) ROSENBERG BROS., New York, N. Y. Filed May 20, 1920.



No claim is made to the words "Reliable Brand" and "Furs" apart from the mark shown on the drawing.
Particular description of goods.—Fur Coats, Scarfs, and Muffs.
Claims use since Sept. 1, 1916.

Ser. No. 132,786. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM A. FEUILLAN, Jr., New Orleans, La. Filed May 22, 1920.



I particularly disclaim exclusive use to the words "Pralean's the Creole Candy of New Orleans."

Particular description of goods.—Candy.

Claims use since Apr. 1, 1920.

Ser. No. 132,815. (CLASS 5. ADHESIVES.) STIXOLE MANUFACTURING CO., Cincinnati, Ohio. Filed May 22, 1920.

STIXOLE

The shading of the letter "X" in the mark is to indicate the color red.

Particular description of goods.—Adhesive Cement, Particularly for Leather Goods.

Claims use since May 4, 1920.

Ser. No. 132,860. (CLASS 39. CLOTHING.) S. HORWITZ & SONS, New York, N. Y. Filed May 24, 1920.



Particular description of goods.—Men's, Women's, and Children's Clothing—viz., Hosiery, Jerseys, Sweaters, Sweater-Coats, Knitted Underwear in One and Two Piece Garments, Negligée and Work Shirts, and Leather and Fabric Gloves.

Claims use since about May 16, 1920.

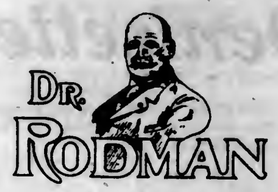
Ser. No. 132,901. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNITED BATTERY SERVICE COMPANY, Montgomery, Ala. Filed May 24, 1920.



Particular description of goods.—Containers for Batteries in the Nature of a Metal Box Coated with Acid-Proof Paint.

Claims use since Apr. 10, 1920.

Ser. No. 133,005. (CLASS 39. CLOTHING.) A. J. BATES & COMPANY, New York, N. Y. Filed May 27, 1920.



The picture of a deceased physician.

Particular description of goods.—Leather Shoes and Shoes with Cloth Uppers.

Claims use since August, 1908.

Ser. No. 133,006. (CLASS 39. CLOTHING.) A. J. BATES & COMPANY, New York, N. Y. Filed May 27, 1920.

Lady Stout

Particular description of goods.—Leather Shoes and Shoes with Cloth Uppers.

Claims use since July, 1917.

Ser. No. 133,066. (CLASS 39. CLOTHING.) E. T. SLATTERY CO., Boston, Mass. Filed May 28, 1920.



Particular description of goods.—Men's, Women's, and Children's Hosiery.

Claims use since Mar. 1, 1920.

Ser. No. 133,151. (CLASS 39. CLOTHING.) JOBBERS OVERALL CO. INC., Lynchburg, Va. Filed June 1, 1920.

Blue Buckle
"Strong for Work"

Particular description of goods.—Overalls and Work-Clothes.

Claims use since 1912.

Ser. No. 133,156. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIBBY, MCNEILL & LIBBY, Chicago, Ill. Filed June 1, 1920.



Particular description of goods.—Canned Milk.

Claims use since Mar. 18, 1920.

Ser. No. 133,403. (CLASS 37. PAPER AND STATIONERY.) CROCKER PEN COMPANY, Boston, Mass. Filed June 8, 1920.

PERMAPOINT

The word "Permapoint."

Particular description of goods.—Automatic Pencils, and Fountain-Pens.

Claims use since June 1, 1020.

Ser. No. 133,409. (CLASS 39. CLOTHING.) LOUIS FRIEDMAN, New York, N. Y. Filed June 8, 1920.

CAMEL



Particular description of goods.—Waistbands.

Claims use since on or about May 1, 1920.

Ser. No. 133,463. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) NOYES EDSON FRENCH, Boston, Mass. Filed June 9, 1920.

Frenchade

Particular description of goods.—Fruit Punch Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, and Sold as a Soft Drink.

Claims use since May 18, 1920.

Ser. No. 133,489. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) O'LOANE, KIELY & CO., LTD., Vancouver, British Columbia, Canada. Filed June 9, 1920.

EQUALITY

Particular description of goods.—Canned Fish.

Claims use since Oct. 21, 1918.

Ser. No. 133,514. (CLASS 39. CLOTHING.) SIMON ASCHER & CO. INC., New York, N. Y. Filed June 10, 1920.



All right to the exclusive use of the words "100% Pure Wool Knit Goods, Reg. U. S. Pat. Off." is disclaimed apart from the mark shown.

Particular description of goods.—Knitted Sweaters, Leggings, Caps, Gloves, Children's Outer Coats, Children's Pants, and Children's Sweaters.

Claims use since May 1, 1920.

Ser. No. 133,590. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES PESCHIER, Lyon, France. Filed June 11, 1920.



Particular description of goods.—Silk Piece Goods.

Claims use since Mar. 27, 1920.

Ser. No. 133,591. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES PESCHIER, Lyon, France. Filed June 11, 1920.

"AU CHARDON"

Particular description of goods.—Silk Piece Goods.

Claims use since Mar. 27, 1920.

Ser. No. 133,653. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLINTON ELLIOTT, New York, N. Y. Filed June 14, 1920.

Neighbor

Particular description of goods.—Candies and Molasses Kisses.

Claims use since July 1, 1919.

Ser. No. 133,654. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLINTON ELLIOTT, New York, N. Y. Filed June 14, 1920.

NABORHOOD

Particular description of goods.—Candies and Molasses Kisses.

Claims use since July 1, 1919.

Ser. No. 133,665. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER T. HALL & Co., Ottumwa, Iowa. Filed June 14, 1920.

TEASE THE TASTE

Particular description of goods.—Candy.
Claims use since Jan. 13, 1915.

Ser. No. 133,787. (CLASS 39. CLOTHING.) LOUIS LEWIN COMPANY, Chicago, Ill. Filed June 16, 1920.



The shading being employed to indicate a red color.
Particular description of goods.—Overalls.
Claims use since on or about Apr. 1, 1920.

Ser. No. 133,836. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,838. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,839. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,841. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,842. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,843. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,844. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,845. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE AND CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,846. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Dyestuffs.
Claims use since May 5, 1920.

Ser. No. 133,917. (CLASS 37. PAPER AND STATIONERY.) THE EVANS DOLLAR PEN COMPANY, Waterloo, Iowa. Filed June 19, 1920.

WhiteTop

Particular description of goods.—Fountain-Pens.
Claims use since on or about Aug. 11, 1919.

Ser. No. 133,934. (CLASS 15. OILS AND GREASES.) PETROLEUM OIL COMPANY, Anderson, S. C. Filed June 19, 1920.

VIKING

Particular description of goods.—Motor-Oils, Lubricating Oils, and Greases, and Compounds.
Claims use since on or about Oct. 25, 1919.

Ser. No. 133,937. (CLASS 39. CLOTHING. THE PLAUT COMPANY, Cincinnati, Ohio. Filed June 19, 1920.

MILTOSCA

Particular description of goods.—Men's, Women's, and Children's Furnishing Goods—viz., Underwear, Hosiery, Gloves, Shirts, and Neckwear.
Claims use since May 10, 1920.

Ser. No. 133,941. (CLASS 39. CLOTHING) BENJAMIN WOHL, New York, N. Y. Filed June 19, 1920.
No claim is made for the words "Wash-Togs."

BW WASH-TOGS

Particular description of goods.—Clothing.
Claims use since on or about June 1, 1919.

Ser. No. 133,946. (CLASS 39. CLOTHING.) TRIANGLE OVERALL COMPANY, Evansville, Ind. Filed June 19, 1920.



Particular description of goods.—Men's and Boys' Work-Garments—Namely, Overalls, Coats, One-Piece Working-Garments, Trousers, and Shirts.
Claims use since Nov. 10, 1914.

Ser. No. 133,994. (CLASS 12. CONSTRUCTION MATERIALS.) UNION LUMBER COMPANY, San Francisco, Calif. Filed June 21, 1920.

NOYO

Particular description of goods.—Lumber and Forest Products—Namely, Finished Ties.
Claims use since June 24, 1918.

Ser. No. 134,022. (CLASS 39. CLOTHING.) HYMAN KOFFLER, New York, N. Y. Filed June 22, 1920.
No claim being made to the exclusive use of the words



"Faultless Guaranteed Trousers" apart from the mark shown in the drawing.
Particular description of goods.—Trousers.
Claims use since Aug. 28, 1919.

Ser. No. 134,034. (CLASS 39. CLOTHING.) ROGERS PEET COMPANY, New York, N. Y. Filed June 22, 1920.
No claim being made to the exclusive use of the word

SHIRE RPC BRAND

"Brand" apart from the mark as shown in the drawing.
Particular description of goods.—Men's and Boys' Collars.
Claims use since June 2, 1919.

Ser. No. 134,158. (CLASS 15. OILS AND GREASES.) TIFFANY & COMPANY, New York, N. Y. Filed June 24, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Candles.
Claims use since 1868.

Ser. No. 134,159. (CLASS 15. OILS AND GREASES.) TIFFANY & COMPANY, New York, N. Y. Filed June 24, 1920. Under ten-year proviso.

TIFFANY & Co.

Particular description of goods.—Candles.
Claims use since 1868.

Ser. No. 134,266. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) OXWELD ACETYLENE COMPANY, Newark, N. J. Filed June 26, 1920.

EVEREADY

Particular description of goods.—Welding-Rods.
Claims use since Dec. 22, 1919.

Ser. No. 134,346. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. S. BESTON & Co., New York, N. Y. Filed June 29, 1920. Under ten-year proviso.

BESTON

Particular description of goods.—Canned Fruits.
Claims use since January, 1893.

Ser. No. 134,601. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROCCO PERRETTA & COMPANY, Utica, N. Y. Filed July 6, 1920.

MONACO



The picture being fanciful, no claim to the "Monaco" word apart from the mark as shown.
Particular description of goods.—Cotton Salad-Oil.
Claims use since about Jan. 1, 1914.

Ser. No. 134,635. (CLASS 39. CLOTHING.) CONSOLIDATED MILLS COMPANY, High Point, N. C. Filed July 7, 1920.

TEXTUFF

Particular description of goods.—Hosiery.
Claims use since Apr. 1, 1920.

Ser. No. 134,813. (CLASS 20. LINOLEUM AND OILED CLOTH.) ECONOMIC MANUFACTURING CO., Paterson, N. J. Filed July 12, 1920.



Particular description of goods.—Imitation Linoleum.
Claims use since Jan. 21, 1920.

Ser. No. 134,815. (CLASS 38. PRINTS AND PUBLICATIONS.) JAMES FRANK FISHER, Honolulu, Hawaii. Filed July 12, 1920.



No claim being made to the exclusive use of the words "Wholesale and Retail Magazines, Newspapers, and Periodicals Brain Food Agents Territory of Hawaii" apart from the mark shown in the drawing.
Particular description of goods.—Monthly, Weekly, and Periodical Publication.
Claims use since March, 1918.

Ser. No. 134,840. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALBERT C. MCGUGIN, Denver, Colo. Filed July 12, 1920.

CORD A RAG

Particular description of goods.—Rag Carpets and Rugs.
Claims use since May, 1920.

Ser. No. 134,889. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GROTON ELECTRICAL DEVICES, INC., Groton, N. Y. Filed July 13, 1920.

"THE ELECTRIC TOWEL"

Particular description of goods.—Electrical Lavatory Drying-Machines.
Claims use since Dec. 22, 1918.

Ser. No. 135,264. (CLASS 38. PRINTS AND PUBLICATIONS.) JAMES B. BLOOR, Los Angeles, Calif. Filed July 22, 1920.

Screen News Service

Particular description of goods.—Weekly Magazine.
Claims use since Sept. 24, 1919.

Ser. No. 135,322. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GUS IGSTARDTER, New York, N. Y. Filed July 23, 1920.

SWISS-MAID

Consisting of the words "Swiss-Maid."
Particular description of goods.—Cotton Piece Goods.
Claims use since July 1, 1920.

Ser. No. 135,387. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) TIFFANY & COMPANY, New York, N. Y. Filed July 24, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Music-Boxes.
Claims use since 1868.

Ser. No. 135,406. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CARE FASTENER COMPANY, Cambridge, Me. Filed July 26, 1920.

DELTA

The word "Delta."
Particular description of goods.—Snap-Fasteners.
Claims use since July 15, 1920.

Ser. No. 135,555. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GUITERMAN, ROSENFELD & COMPANY, New York, N. Y. Filed July 29, 1920.

AUTOKRAT

Particular description of goods.—Electrically-Operated Automobile-Horns.
Claims use since June 11, 1920.

Ser. No. 135,599. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) FRANCIS C. GERRASI, Brooklyn, N. Y. Filed July 30, 1920.



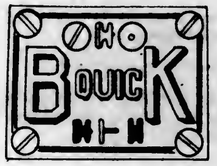
Particular description of goods.—Ladies' Belts of Ornamental Design in Celluloid.
Claims use since Jan. 2, 1920.

Ser. No. 135,611. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NATIONAL RING TRAVELER CO., Providence, R. I. Filed July 30, 1920.

CASEARD

Particular description of goods.—Shoe and Clothing Buttons.
Claims use since Apr. 1, 1920.

Ser. No. 135,614. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HERMAN OPITZ, St. Cloud, Minn. Filed July 30, 1920.



Particular description of goods.—Buttons.
Claims use since May 1, 1920.

Ser. No. 135,686. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BLUE BUCKLE COTTON MILLS, INC., Rock Hill, S. C. Filed Aug. 2, 1920.

100

Particular description of goods.—Bed-Ticking.
Claims use since 1905.

Ser. No. 135,687. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BLUE BUCKLE COTTON MILLS, INC., Rock Hill, S. C. Filed Aug. 2, 1920.

150

Particular description of goods.—Bed-Ticking.
Claims use since 1905.

Ser. No. 135,688. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BLUE BUCKLE COTTON MILLS, INC., Rock Hill, S. C. Filed Aug. 2, 1920.

200

Particular description of goods.—Bed-Ticking.
Claims use since 1905.

Ser. No. 135,690. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BLUE BUCKLE COTTON MILLS, INC., Rock Hill, S. C. Filed Aug. 2, 1920.

400

Particular description of goods.—Bed-Ticking.
Claims use since 1905.

Ser. No. 135,692. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BLUE BUCKLE COTTON MILLS, INC., Rock Hill, S. C. Filed Aug. 2, 1920.

E

Particular description of goods.—Bed-Ticking.
Claims use since 1905.

Ser. No. 135,734. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo. Filed Aug. 2, 1920.

"Lumalite"

Particular description of goods.—Flash-Lights and Flash-Light Batteries.
Claims use since July 17, 1920.

Ser. No. 135,745. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) B. F. BAILEY & CO., New York, N. Y. Filed Aug. 3, 1920.

TAVERNTOPS

Particular description of goods.—Bleached, Unbleached, and Dyed Plain and Mercerized Cotton Table-Damask, Pattern-Cloths, and Napkins.
Claims use since Jan. 29, 1919.

Ser. No. 135,762. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PERSONS ELECTRIC CO., Quincy, Ill. Filed Aug. 3, 1920.



Particular description of goods.—Electric Motors.
Claims use since Mar. 1, 1920.

Ser. No. 135,792. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MASSACHUSETTS COTTON MILLS, Lowell and Boston, Mass. Filed Aug. 4, 1920.



Particular description of goods.—Cotton Blankets.
Claims use since June 1, 1920.

Ser. No. 135,806. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed Aug. 5, 1920.

Exposition

Particular description of goods.—Silk Piece Goods.
Claims use since July 23, 1920.

TRADE-MARK REGISTRATIONS GRANTED

SEPTEMBER 7, 1920.

134,471. CORUNDUM IN BULK. AMERICAN ABRASIVE COMPANY, Westfield, Mass.
Filed December 26, 1919. Serial No. 126,437. PUBLISHED MAY 4, 1920.

134,472. CANDY. AMERICAN CANDY MANUFACTURING CO., Selma, Ala.
Filed February 10, 1920. Serial No. 128,192. PUBLISHED MAY 11, 1920.

134,473. MONTHLY MAGAZINE. AMERICAN CARPENTER AND BUILDER CO., Chicago, Ill.
Filed September 15, 1919. Serial No. 122,679. PUBLISHED JANUARY 27, 1920.

134,474. DUSTPAN-BRUSHES, BROOMS, FLOOR-SWEEPERS, AND HOUSEHOLD BRUSHES. AUBURN BRUSH COMPANY, Auburn, Me.
Filed November 12, 1919. Serial No. 124,778. PUBLISHED APRIL 20, 1920.

134,475. HAIR-COLORING. JEAN BAPTISTE CLÉMENT BALME, New York, N. Y.
Filed February 4, 1919. Serial No. 115,608. PUBLISHED APRIL 27, 1920.

134,476. MEDICINE FOR THE TREATMENT OF THROAT AND LUNG DISEASES. W. E. BARD, Sedalia, Mo.
Filed January 26, 1920. Serial No. 127,575. PUBLISHED MAY 11, 1920.

134,477. TIRE-PATCH. ROY L. BARTHOLOMEW, Minneapolis, Minn.
Filed December 26, 1919. Serial No. 126,443. PUBLISHED MAY 18, 1920.

134,478. REMEDY FOR RELIEF OF VARIOUS AFFECTIONS OF THE LUNGS AND THROAT. V. L. BLAHNIK & SONS, Chicago, Ill.
Filed April 24, 1919. Serial No. 117,797. PUBLISHED MAY 11, 1920.

134,479. MEDICINAL COMPOUND FOR USE AS A LIVER-REGULATOR AND GENERAL TONIC. CADIMUS L. BOLT, Ware Shoals, S. C.
Filed December 20, 1919. Serial No. 126,269. PUBLISHED MAY 4, 1920.

134,480. PREPARED ROOFING COMPRISING A SHEET OF MATERIAL IMPREGNATED AND COATED WITH ASPHALT. CARPENTER-MORTON COMPANY, Boston, Mass.
Filed April 2, 1919. Serial No. 117,106. PUBLISHED MAY 4, 1920.

134,481. CHEMICAL COMPOUND FOR THE TREATMENT OF THE HAIR AND SCALP. ANNIE L. CARTER, New York, N. Y.
Filed November 6, 1919. Serial No. 124,594. PUBLISHED MAY 25, 1920.

134,482. CHEMICAL PREPARATION USED ON INTERNAL-COMBUSTION ENGINES TO PREVENT FREEZING AND FORMATION OF SCALE. THE CHAMBERLAIN-HABER CHEMICAL CO., Cleveland, Ohio.
Filed January 7, 1920. Serial No. 126,895. PUBLISHED MAY 4, 1920.

134,483. CERTAIN DISTILLED ALCOHOLIC LIQUOR. W. H. CHAPLIN & CO., LIMITED, London, England.
Filed July 16, 1919. Serial No. 120,598. PUBLISHED DECEMBER 16, 1919.

134,484. SHERRY. W. H. CHAPLIN & CO., LIMITED, London, England.
Filed July 16, 1919. Serial No. 120,599. PUBLISHED DECEMBER 9, 1919.

134,485. SALVE OR OINTMENT FOR CERTAIN NAMED DISEASES AND AFFECTIONS. SAWYER D. CLARK, Boulder, Colo.
Filed October 16, 1919. Serial No. 123,840. PUBLISHED MAY 4, 1920.

134,486. CANNED FRUITS. COLONIAL PRESERVE COMPANY, Philadelphia, Pa.
Filed May 17, 1919. Serial No. 118,604. PUBLISHED MAY 11, 1920.

134,487. CANNED CORN, TOMATOES, PEAS, CANNED OYSTERS AND SHRIMP, AND CANNED SYRUP. CONSOLIDATED COMPANIES, INC., Plaquemine, Morgan City, St. Martinville, New Roads, and White Castle, La.
Filed March 27, 1920. Serial No. 130,269. PUBLISHED MAY 25, 1920.

134,488. NON-ALCOHOLIC, MALTLESS, COLA BEVERAGE. CLARENCE A. CRANE, Cleveland, Ohio.
Filed December 16, 1919. Serial No. 126,102. PUBLISHED MAY 11, 1920.

134,489. PACKING MADE OF CERTAIN NAMED MATERIALS, AND EITHER DRY OR TREATED WITH LUBRICANT. JOHN CRANE, Maywood, Ill.
Filed June 18, 1919. Serial No. 119,735. PUBLISHED JANUARY 8, 1920.

134,490. CANDY. CLARENCE A. CRANE, Cleveland, Ohio.
Filed May 24, 1919. Serial No. 118,875. PUBLISHED JULY 29, 1919.

134,491. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE. THE DAIRY PRODUCTS COMPANY, Dayton, Ohio.
Filed January 23, 1920. Serial No. 127,500. PUBLISHED MAY 11, 1920.

134,492. REMEDY FOR FALLING HAIR, DANDRUFF, AND SCALP DISEASES. SALLIE B. DEADERICK, Ford City, Pa.
Filed January 17, 1920. Serial No. 127,241. PUBLISHED MAY 11, 1920.

134,493. TOOTHBRUSHES. CHARLES DIEBKE, Portland, Oreg.
Filed April 19, 1919. Serial No. 117,799. PUBLISHED MARCH 30, 1920.

134,494. PHARMACEUTICAL PREPARATIONS FOR CERTAIN NAMED DISEASES AND AILMENTS. THE DRUG PRODUCTS CO., INC., New York, N. Y.
Filed April 18, 1919. Serial No. 117,592. PUBLISHED OCTOBER 7, 1919.

134,495. SOLUBLE TABLETS FOR EXTEMPORANEOUS PREPARATIONS OF SOLUTIONS FOR ANTISEPTIC USES. THE ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed February 21, 1913. Serial No. 68,657. PUBLISHED APRIL 4, 1916.

134,496. RENNET POWDER. FABRIQUE DE PRODUITS CHIMIQUES FLORA, Zurich, Switzerland.
Filed July 11, 1919. Serial No. 120,454. PUBLISHED DECEMBER 2, 1919.

134,497. HAIR-TONIC. MADELEINE FABHNER, New York, N. Y.
Filed November 21, 1919. Serial No. 125,153. PUBLISHED MAY 4, 1920.

134,498. BULLETIN PUBLISHED AT IRREGULAR INTERVALS RELATING TO FATS, OILS, AND ALLIED INDUSTRIES. FATS AND OILS SERVICE COMPANY, New York, N. Y.
Filed August 30, 1919. Serial No. 122,162. PUBLISHED FEBRUARY 10, 1920.

134,499. TOOTHACHE REMEDY. THE DENTAMINA TRADING CO., New York, N. Y.
Filed December 15, 1919. Serial No. 126,012. PUBLISHED MAY 25, 1920.

134,500. OLIVE-OIL. AUGUSTE GAILLARD, Malaga, Spain.
Filed August 18, 1917. Serial No. 105,712. PUBLISHED MAY 25, 1920.

134,501. OLIVE-OIL. AUGUSTE GAILLARD, Malaga, Spain.
Filed August 18, 1917. Serial No. 105,713. PUBLISHED MAY 25, 1920.

134,502. CHEESES. EGIDIO GALBANI, Melzo, Italy.
Filed December 28, 1916. Serial No. 100,139. PUBLISHED MAY 11, 1920.

134,503. DEALCOHOLIZED WINES. GARRETT AND COMPANY, INCORPORATED, New York, N. Y.
Filed January 14, 1920. Serial No. 127,120. PUBLISHED MAY 25, 1920.

134,504. FLAVORING MATERIAL FOR MAKING A NON-ALCOHOLIC FRUIT BEVERAGE. GRAPE OLA PRODUCTS CORPORATION, New York, N. Y.
Filed December 23, 1919. Serial No. 126,368. PUBLISHED MAY 25, 1920.

134,505. FLAVORING MATERIAL FOR MAKING A NON-ALCOHOLIC FRUIT BEVERAGE. GRAPE OLA PRODUCTS CORPORATION, New York, N. Y.
Filed December 23, 1919. Serial No. 126,369. PUBLISHED MAY 25, 1920.

134,506. FLAVORING MATERIAL FOR MAKING A NON-ALCOHOLIC FRUIT BEVERAGE. GRAPE OLA PRODUCTS CORPORATION, New York, N. Y.
Filed December 23, 1919. Serial No. 126,373. PUBLISHED MAY 25, 1920.

134,507. ROAD-OIL USED AS A BINDER. HEADLEY GOOD ROADS COMPANY, Philadelphia, Pa.
Filed February 24, 1917. Serial No. 101,650. PUBLISHED MAY 4, 1920.

134,508. BRAIDS, SHOE-LACES, GALLOONS, AND CORSET-LACES. WILLIAM H. JOSLIN, Providence, R. I.
Filed December 23, 1918. Serial No. 114,784. PUBLISHED APRIL 6, 1920.

134,509. ANTISEPTIC AND DISINFECTANT. KALI MANUFACTURING CO., Philadelphia, Pa.
Filed December 8, 1919. Serial No. 125,704. PUBLISHED MAY 25, 1920.

134,510. PIECE GOODS—NAMELY, COTTON BUNTING, COTTON CLOTH, COTTON DUCK, KHAKI CLOTH, KHAKI DUCK, AND CANVAS PORCH-FLOOR COVERINGS. CHARLES E. LINDH, INC., Philadelphia, Pa.
Filed September 18, 1919. Serial No. 122,840. PUBLISHED MAY 25, 1920.

134,511. PRINTING-PRESSES AND PARTS THEREOF. LISENBY MANUFACTURING COMPANY, Fresno, Calif.
Filed September 29, 1919. Serial No. 123,249. PUBLISHED MAY 4, 1920.

134,512. MONTHLY MAGAZINE. THE LOTUS MAGAZINE FOUNDATION, INC., New York, N. Y.
Filed August 19, 1919. Serial No. 121,808. PUBLISHED FEBRUARY 24, 1920.

134,513. INSECTICIDES. ANNA V. MCCONAGHY, Washington, D. C.
Filed June 18, 1918. Serial No. 111,653. PUBLISHED DECEMBER 10, 1918.

134,514. PERFUMERY. MCKESSON & ROBBINS INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,294. PUBLISHED MAY 4, 1920.

134,515. LAXATIVE TONIC. THE MANHATTAN MEDICINE CO., Des Moines, Iowa.
Filed December 10, 1919. Serial No. 125,794. PUBLISHED MAY 4, 1920.

134,516. CERTAIN NAMED FANCY GOODS, FURNISHINGS, AND NOTIONS. MORRIS & YEOMANS LIMITED, Redditch, England.
Filed September 15, 1919. Serial No. 122,715. PUBLISHED APRIL 20, 1920.

134,517. WALL-BOARD AND BUILDING-PAPER. MURO WALL BOARD COMPANY, INC., Buffalo, N. Y.
Filed December 5, 1919. Serial No. 125,621. PUBLISHED APRIL 20, 1920.

134,518. COLD-CREAM. NORTHAM WARREN CORPORATION, New York, N. Y.
Filed January 28, 1920. Serial No. 127,696. PUBLISHED MAY 25, 1920.

134,519. CERTAIN NAMED MEDICINES, PHARMACEUTICAL AND TOILET PREPARATIONS. FREDERICK A. NORWOOD, Delaware, Ohio.
Filed December 3, 1919. Serial No. 125,542. PUBLISHED MAY 25, 1920.

134,520. LOCAL ANESTHETICS. NOVOCOL CHEMICAL MFG. CO., INC., Brooklyn, N. Y.
Filed December 23, 1919. Serial No. 126,388. PUBLISHED MAY 4, 1920.

134,521. SILK RIBBONS. PELGRAM & MEYER, New York, N. Y.
Filed January 14, 1919. Serial No. 115,186. PUBLISHED MARCH 4, 1919.

134,522. PREPARATION FOR THE TREATMENT OF THE TEETH. THE PEMETINE COMPANY INC., New York, N. Y.
Filed November 18, 1919. Serial No. 125,059. PUBLISHED MAY 4, 1920.

134,523. BAKING PLANT AND PARTS THEREOF. PEOPLES SYSTEM OF BAKERIES, Chicago, Ill., assignor to Peoples System of Bakeries Inc., Chicago, Ill., a Corporation of Illinois.
Filed September 12, 1919. Serial No. 122,609. PUBLISHED FEBRUARY 24, 1920.

134,524. COUGH MEDICINE. U. S. PHARMACEUTICAL MANUFACTURING COMPANY, New York, N. Y.
Filed October 4, 1919. Serial No. 123,466. PUBLISHED MAY 18, 1920.

134,525. CERTAIN NAMED CONSTRUCTION MATERIAL. THE PHILIP CAREY MANUFACTURING COMPANY, Lockland, Ohio.
Filed October 16, 1918. Serial No. 113,749. PUBLISHED APRIL 20, 1920.

134,526. PERIODICALLY-PUBLISHED MAGAZINE-SECTION. PHOTOPLAY PUBLISHING COMPANY, Chicago, Ill.
Filed February 10, 1919. Serial No. 115,737. PUBLISHED FEBRUARY 24, 1920.

134,527. NON-CARBONIZED TYPEWRITING-PAPER AND PRINTING-PAPER. POWERS PAPER COMPANY, Springfield, Mass.
Filed October 5, 1918. Serial No. 113,591. PUBLISHED MAY 11, 1920.

134,528. CERTAIN NAMED MEDICINE AND PHARMACEUTICAL PREPARATION. THE RANSOM & RANDOLPH COMPANY, Toledo, Ohio.
Filed November 3, 1919. Serial No. 124,492. PUBLISHED MAY 4, 1920.

134,529. METALLIC ROD-PACKING. RHODES METALLIC PACKING CO. INC., Shreveport, La.
Filed December 15, 1919. Serial No. 126,068. PUBLISHED MAY 4, 1920.

134,530. CANNED FRUITS AND CANNED VEGETABLES. RICHMOND-CHASE COMPANY, San Jose, Calif.
Filed March 1, 1920. Serial No. 129,089. PUBLISHED MAY 11,1920.

134,531. DISINFECTANTS, INSECTICIDES, AND GERMICIDES. ROCHESTER GERMICIDE COMPANY, Rochester, N. Y.
Filed September 24, 1919. Serial No. 123,078. PUBLISHED MAY 4, 1920.

134,532. BELTING. THE ROSSENDALE-REDDAWAY BELTING & HOSE CO., Newark, N. J.
Filed January 17, 1919. Serial No. 115,257. PUBLISHED FEBRUARY 10, 1920.

134,533. FIBROUS RUBBER FLOOR-BOARD MATS, RUNNING-BOARD MATS, AND STEP-MATS FOR AUTOMOBILES. RUB-TEX ORGANIZATION COMPANY, Kenton, Ohio, and Indianapolis, Ind.
Filed September 22, 1919. Serial No. 122,997. PUBLISHED MAY 4, 1920.

134,534. CANNED PEACHES AND CANNED APRICOTS. SAN FERNANDO CANNING CO., San Fernando, Calif.
Filed November 25, 1918. Serial No. 114,361. PUBLISHED MAY 11, 1920.

134,535. SELF-VULCANIZING PATCHES FOR INNER TUBES OF AUTOMOBILE-TIRES AND OTHER RUBBER GOODS. JESSE E. SAWYER, Quincy, Ill.
Filed July 17, 1919. Serial No. 120,652. PUBLISHED DECEMBER 30, 1919.

134,536. HAND-PROPELLED TOY HORSE FOR CHILDREN. JOSEPH SCANLAN, Brooklyn, N. Y.
Filed August 16, 1919. Serial No. 121,727. PUBLISHED OCTOBER 28, 1919.

134,537. MACARONI. ETTORE M. SCHISA, Syracuse, N. Y., and Lebanon, Pa.
Filed November 3, 1919. Serial No. 124,494. PUBLISHED MAY 18, 1920.

134,538. NON-ALCOHOLIC, NON-CEREAL, MALTLESS, FLAVORED BEVERAGE. SCHWEPPES, LIMITED, London, England.
Filed November 29, 1919. Serial No. 125,439. PUBLISHED MAY 18, 1920.

134,539. PRINTED GUMMED LABELS. THE FRANK G. SHUMAN CO., Chicago, Ill.
Filed March 22, 1919. Serial No. 116,823. PUBLISHED FEBRUARY 10, 1920.

134,540. ASPIRIN. SMITH, KLINE & FRENCH CO., Philadelphia, Pa.
Filed November 1, 1919. Serial No. 124,450. PUBLISHED MAY 4, 1920.

134,541. DYESTUFFS. SONN BROTHERS COMPANY, New York, N. Y., assignor to Sonn Brothers Import & Export Co. of N. Y., Inc., New York, N. Y., a Corporation of Delaware.
Filed December 16, 1919. Serial No. 126,153. PUBLISHED MAY 4, 1920.

134,542. INNER TUBES FOR PNEUMATIC TIRES. SPENCER CARROLL COMPANY, Dallas, Tex.
Filed May 19, 1919. Serial No. 118,653. PUBLISHED JANUARY 6, 1920.

134,543. SALVE FOR CERTAIN NAMED AILMENTS. W. C. SUNDERLAND, Norwood, Pa.
Filed April 20, 1920. Serial No. 131,400. PUBLISHED MAY 25, 1920.

134,544. POLISH FOR THE FINISH ON PIANOS, FURNITURE, AUTOMOBILES, AND POLISHED FLOORS. LESLIE M. THORNTON, Kansas City, Mo.
Filed January 16, 1919. Serial No. 115,230. PUBLISHED AUGUST 26, 1919.

134,545. CANDY. TIFFIN PRODUCTS, INC., New York, N. Y.
Filed December 23, 1919. Serial No. 126,399. PUBLISHED MAY 4, 1920.

134,546. FRESH EGGS. TILDEN PRODUCE CO., St. Paul, Minn.
Filed October 25, 1915. Serial No. 90,102. PUBLISHED MAY 18, 1920.

134,547. BELTS FOR SUPPORTING WEARING-APPAREL. G. H. TYLER & CO., Cincinnati, Ohio.
Filed December 26, 1919. Serial No. 126,494. PUBLISHED MAY 4, 1920.

134,548. CERTAIN NAMED CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. UNITED DRUG COMPANY, Boston, Mass.
Filed January 26, 1920. Serial No. 127,621. PUBLISHED MAY 4, 1920.

134,549. CERTAIN NAMED TOILET PREPARATIONS. THE UNITED STATES DRUG & CHEMICAL CO., Cleveland, Ohio.
Filed December 20, 1919. Serial No. 126,295. PUBLISHED MAY 4, 1920.

134,550. INTERNAL MEDICINE AND EXTERNAL LINIMENT FOR CERTAIN NAMED DISEASES AND AILMENTS. J. H. MIMS, Boston, Ga.
Filed November 24, 1919. Serial No. 125,236. PUBLISHED MAY 4, 1920.

134,551. LINIMENT FOR CERTAIN NAMED AILMENTS. UNIVERSAL REMEDIES COMPANY, Duluth, Minn.
Filed January 12, 1920. Serial No. 127,070. PUBLISHED MAY 4, 1920.

134,552. CANDY. UNIVERSAL THEATRES CONCESSION CO., Chicago, Ill.
Filed December 4, 1919. Serial No. 125,589. PUBLISHED MAY 25, 1920.

134,553. PREPARATIONS FOR THE RELIEF OF HEADACHES AND NEURALGIA. VANCOUVER DRUG COMPANY, LIMITED, Vancouver, British Columbia, Canada.
Filed November 1, 1919. Serial No. 124,457. PUBLISHED MAY 4, 1920.

134,554. CERTAIN NAMED FANCY GOODS, FURNISHINGS, AND NOTIONS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,066. PUBLISHED APRIL 20, 1920.

134,555. CERTAIN NAMED FANCY GOODS, FURNISHINGS, AND NOTIONS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,067. PUBLISHED APRIL 20, 1920.

134,556. PAPER HANGINGS. THE WALL PAPER MANUFACTURERS, LTD., London, England.
Filed November 3, 1919. Serial No. 124,506. PUBLISHED APRIL 27, 1920.

134,557. PISTON-RINGS. JESSE H. WASSERMAN, New York, N. Y.
Filed March 7, 1919. Serial No. 116,396. PUBLISHED DECEMBER 30, 1919.

134,558. HAIR-RESTORER. CLEVELAND L. WATERS, Seattle, Wash.
Filed August 15, 1919. Serial No. 121,702. PUBLISHED MAY 4, 1920.

134,559. PREPARATION FOR A MEDICINAL TONIC. THOMPSON G. WALTON, Chicago, Ill.
Filed November 24, 1919. Serial No. 125,266. PUBLISHED MAY 11, 1920.

134,560. BREAD. L. WEINBERG BAKING CO., Cincinnati, Ohio.
Filed January 6, 1919. Serial No. 115,021. PUBLISHED MAY 18, 1920.

134,561. HANDKERCHIEFS. HYMAN BAUMAN & CO., New York, N. Y.
Filed November 22, 1919. Serial No. 125,172. PUBLISHED MAY 4, 1920.

134,562. BOOTS AND SHOES MADE OF CERTAIN NAMED MATERIALS, RUBBERS, AND HOSIERY. AMERICAN ITALIAN TRADING COMPANY MCDONNELL, TRUDA & BERLINGIERI, New York, N. Y.
Filed October 15, 1919. Serial No. 123,782. PUBLISHED APRIL 13, 1920.

LABELS

REGISTERED SEPTEMBER 7, 1920.

22,093.—*Title:* "CARAMELS." (For Caramels.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed April 23, 1920.

22,094.—*Title:* "CREAM MANILA PRACTICE PAPER, LOUISVILLE PUBLIC SCHOOLS." (For Pads of Drawing-Paper in the Public Schools.) BOARD OF EDUCATION OF LOUISVILLE, KENTUCKY, Louisville, Ky. Filed April 26, 1920.

22,095.—*Title:* "GREY MANILA PRACTICE PAPER, LOUISVILLE PUBLIC SCHOOLS." (For Pads of Drawing-Paper in the Public Schools.) BOARD OF EDUCATION OF LOUISVILLE, KENTUCKY, Louisville, Ky. Filed April 26, 1920.

22,096.—*Title:* "WATERMAN'S IDEAL INK." (For Waterman's Ideal Ink.) L. E. WATERMAN COMPANY, New York, N. Y. Filed April 17, 1920.

22,097.—*Title:* "WATERMAN'S IDEAL INK." (For Waterman's Ideal Ink.) L. E. WATERMAN COMPANY, New York, N. Y. Filed April 17, 1920.

22,098.—*Title:* "WATERMAN'S IDEAL INK." (For Waterman's Ideal Ink.) L. E. WATERMAN COMPANY, New York, N. Y. Filed April 17, 1920.

22,099.—*Title:* "WATERMAN'S IDEAL INK." (For Waterman's Ideal Ink.) L. E. WATERMAN COMPANY, New York, N. Y. Filed April 17, 1920.

22,099.—*Title:* "WATERMAN'S IDEAL INK." (For Waterman's Ideal Ink.) L. E. WATERMAN COMPANY, New York, N. Y. Filed April 17, 1920.

PRINTS

REGISTERED SEPTEMBER 7, 1920.

5,334.—*Title:* "HANDY CANDY CARAMELS." (For Handy Candy Caramels.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed April 17, 1920.

5,335.—*Title:* "THE NEW SERIES HAYNES SUBURBAN." (For Automobiles.) THE HAYNES AUTOMOBILE CO., Kokomo, Ind. Filed March 31, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Sixth Circuit.

CONCRETE APPLIANCES CO. *et al. v.* MEINKEN *et al.*

Decided January 6, 1920; on petition for rehearing March 2, 1920.

[262 Fed. Rep., 958.]

1. PATENTS—VALIDITY AFFECTED BY PRIOR APPLICATION FOR ANOTHER PATENT.
   A patent applied for after filing of application for but before issue of another patent in the same art should, as to anticipation and the presence of invention, be judged upon the basis of which the earlier application is a part, though it was not a part of the prior art in the sense in which that phrase is used with reference only to publication.
2. SAME—PATENT FOR DISTRIBUTING WET CONCRETE INVALID FOR WANT OF INVENTION.
   The Smith patent, No. 948,746, for an apparatus for distributing wet concrete, as limited by the prior Callahan patent, No. 948,719, *Held* not to show invention.
3. SAME—COMBINATION DEVICE FOR DISTRIBUTING WET CONCRETE VALID AND NOT ANTICIPATED.
   The Callahan patent, No. 948,719, for an apparatus for distributing wet concrete, consisting of an elevating-tower and devices for spreading same over structure, though a combination, *Held* to show invention and not to have been anticipated.
4. SAME—ANALOGOUS USE.
   Apparatus for elevating and distributing wet concrete *Held* not a mere double use of earlier apparatus for loading coal.
5. SAME—NEW RESULT.
   The elevation and gravity distribution of wet concrete to and around the successive floors of a building being constructed and all in a semi-automatic way is a new result in a patentable sense.
6. SAME—PATENTABILITY—TEST OF INVENTION—"NEW RESULT."
   "The test of the presence of invention in a new assembly of old elements is sometimes said to be whether a new result is accomplished. This is often not a helpful rule, because its application involves definition of the phrase 'new result,' and this opens the original difficulty. Within a narrow definition, every new combination of old elements gets a new result; but this is not the sense in which the phrase is rightly used as indicative of invention."
7. SAME—APPARATUS FOR DOING A UNITARY WORK INVOLVING SUCCESSIVE STEPS UNDER MANUAL CONTROL.
   Apparatus for elevating and distributing wet concrete to the floors of buildings under construction, which is in a fair sense a unitary work, does not become an aggregation merely because it involves successive steps under manual control.

On petition for rehearing.

8. SAME—CONSTRUCTION—"ADJUSTABLE"—REMOVAL OF BOLTS AND FASTENING IN NEW POSITION.
   The Callahan patent, No. 948,719, for an apparatus for elevating and distributing wet concrete to the floors of buildings under construction, claim 5, the phrase "said boom being adjustably connected with the tower and adapted to be arranged at various points in the height thereof" construed in accordance with the apparent intention of the draftsman to refer to the vertical change of the boom on the tower, which was effected by taking out bolts and bolting it again to a new position, although such is not adjustability in the most precise definition.

APPEAL from the District Court of the United States for the Western Division of the Southern District of Ohio; Howard C. Hollister, judge.

Suit by the Concrete Appliances Company and another against Dietrich Meinken and others. From a decree for defendants, plaintiffs appeal. Reversed and remanded, with directions.

STATEMENT OF THE CASE.

Suit upon patents numbered 948,719, issued July 8, 1910, to L. Callahan, and 948,746, issued February 8, 1910, to A. L. Smith. This case involves the tower apparatus now in common use for elevating and distributing wet ("mush") concrete upon the successive floors of high buildings, constructed in whole or in part from that material. The apparatus, as now used, involves two steps: first, elevating the material to a reservoir or hopper-bin temporarily fixed at the desired elevation in the tower; and, second, distributing it from that elevation, by gravity, through a conduit revolving at the point of connection with the hopper-bin and having at least one swiveled elbow-joint, whereby any desired point upon the selected horizontal plane can be reached for the gravity discharge of the material.

Callahan and Smith each showed, in his drawing, the complete apparatus; but Callahan made no claim to the feature of the double-swiveled discharge-pipe. Callahan's application was filed January 21, 1909; Smith's on February 23d of the same year. The Patent Office notified Callahan that his application seemed to conflict with another, and suggested to him some of the claims which Smith had made. Callahan adopted these claims, whereby an interference was declared. The substance of the issue is shown by count 1, which is given in the margin.[1] Upon this issue, Callahan conceded priority;

[1] In a device for distributing concrete, means for elevating the concrete to a point above the work to be performed; a hopper adapted to receive the concrete so elevated; a primary distributing pipe revolubly mounted beneath the hopper; and a secondary distributing pipe revolubly mounted beneath the mouth of the first named pipe, substantially as described.

judgment was rendered upon the concession; Callahan canceled these additional claims; and both patents issued. Both patents, by assignments, licenses, etc., became the property of the Concrete Appliances Company and Insley, and this suit was brought by them in the court below based upon alleged infringement of both patents. The above-quoted count 1 of the interference became claim 1 of the Smith patent, and is typical of those sued upon.

Claim 5 of the Callahan patent is here quoted [2] and may be accepted as a statement of his invention said to be infringed. Claims 1, 2, and 13 are also declared upon.

Mr. Arthur M. Hood for the appellants.
Mr. F. E. Dennett for the appellees.

Before WARRINGTON, KNAPPEN, and DENISON, Circuit Judges.

DENISON, *Cir. J.*, (after stating the facts as above:)

(1, 2) It goes without saying that the Smith patent can get no advantage merely because it has been owned and commercially exploited along with the Callahan patent. Upon this record, Smith cannot claim to be the inventor of anything shown by Callahan's application, except as the latter is modified by the later concession of priority. The Callahan patent is not a part of the prior art, in the sense in which that phrase is used with reference only to publications, but the Smith patent, both as to anticipation and as to the presence of invention, must be judged upon the basis of which the earlier Callahan application is a part. (*Lemley* v. *Dobson-Evans Co.*, 243 Fed., 391; 156 C. C. A., 171.) It must therefore be assumed, as against Smith, that the advance of his claim 1 consisted merely in taking the concrete elevating and distributing apparatus of Callahan and substituting for Callahan's simple discharging-conduit, revolving only at the point of attachment to the receiving-hopper, the compound discharging-conduit consisting of two or more sections revolubly connected with each other.[3] We are not convinced that this advance involved any invention. Such a double-swiveled conduit was a well-known expedient for the gravity conveying of any material which is was desired to discharge at selected points in a lower horizontal plane. It is obvious—at least when it is pointed out to us—that, with an inclined conduit revolving at its upper end, the lower end could be made to reach any desired point on the lower plane, either by changing the angle of inclination and modifying the length of the conduit, as by telescoping a section, or by adding a supplementary conduit revolubly connected with the lower end of the primary one. Neither form had been in use for concrete (before Callahan), but both forms were old for other purposes. The double-swiveled form had been most highly developed in grain-elevators, for distributing the grain from the elevated receiving-bin to the several openings on the floor below, which indicated spouts leading to still lower storage-bins.

If the matter were to be considered in the broadest sense, there might be such distinctions between elevating and distributing grain and elevating and distributing concrete that transferring a device from one art to the other and making the necessary adaptation would involve invention. That need not be decided; but here Smith begins at the point where the elevation of the concrete is finished. He has then merely the question of gravity distribution. He finds that concrete has been distributed and grain has been distributed by a single unitary chute, swinging and turning at its upper end, and that grain has also been distributed by the double-swiveled chute, thereby increasing the ability to select exactly the desired point for discharge. In the words which were used in *Crown Co.* v. *Sterling Co.*, (217 Fed., 381; 133 C. C. A., 297,) Callahan had already "bridged over whatever gap there was" between the art of concrete-building and the art of gravity distribution, and the "door of opportunity was open" to all who wished to use in the former art an expedient well known in the latter. It seems to us quite clear that there is no invention in adding to the device of Callahan the well-known additional swiveled joint in the discharge-conduit. It follows that those claims of the Smith patent sued upon are invalid, and the decree of the court below, which dismissed the bill as to this patent, must so far be affirmed.

(3) At the time these patentees appeared on the field concrete had already come into extensive use as a building material in connection with metallic reinforcements, and it had been found that it was suitable for buildings of all shapes and of many stories in height. When mixed of the proper consistency, it was called "mush" concrete, and to handle this material and deliver it efficiently at the place of use in a large building operation was a considerable problem. Various methods had been employed, but the one most approved consisted in raising it by elevator to the floor or level where it was to be used and there dumping it into wheelbarrows, by which it was conveyed to the various desired points of use upon that level. It occurred to Callahan that he could construct a tower, or skeleton elevator-shaft, which should originally extend, or which, by successive additions, should be made to extend, well above the highest story of the proposed building; that he could attach to this tower, and make vertically adjustable thereon, a receiving bin or hopper carrying a downwardly-inclined and revolubly-connected discharge-chute, which could be swung about to reach various points on the next lower level to that where the receiving-bin was fixed; that this receiving-bin and its discharging apparatus could be temporarily fixed, as the building advanced, at positions on the tower suitably elevated above each successive story; that the mush concrete could be elevated inside the tower to these various fixed positions and there dumped into the receiving-bin; and that, in this way the mush concrete could be delivered in an approximately automatic way throughout the successive floors or levels of a building, no matter how high. Upon this record, this general thought was wholly novel. It has proved to be of great commercial value. It is common knowledge that, mostly within the period since the patent issued, reinforced concrete has largely superseded all other materials in the erection of large structures, and the record shows that eighty or ninety per cent. of all the important construction work of this class in the country employs this Callahan method, and that all of the larger manufacturers of machinery and apparatus for this general purpose have taken licenses under the patent. It is not too much to say that the invention has played a large part in revolutionizing the building industry, and that it is not common for a patent in litigation to find itself supported by such a large measure of commercial merit and public acquiescence.

It is not contended that the patent is anticipated, in the strict sense of that term, but the defendant's position, approved by the court below, is that Callahan only put together old and familiar elements, and that his advance did not involve invention over what had gone before. To determine this question, we must know, first, the character of the relations between what was old and this new arrangement, and, second, whether his claims are properly characterized by reference to his real advance. To elevate material to a fixed and invariable height, and to distribute it therefrom by gravity, through a swinging, revolving chute, to different discharge-spots upon a lower level, was common. As we have said, in considering the Smith patent, this was familiar in the class of grain-elevators. The typical so-called grain-elevator, or storage-house, was a permanent structure, and grain was carried by various types of elevating apparatus to the permanent top floor or level. From the bottom of the bin there situated depended a swinging chute, which could be moved about so as to discharge, upon the floor below, into any storage-bin opening from that level. These grain-elevators, like others of similar type shown by the record, entirely lack the only substantial novelty claimed for Callahan. They did not have a temporary receiving bin or hopper with a connected discharge-chute vertically adjustable in an elevator-tower, adapted to distribute the material upon successive levels. If invention lies in this thought and its practical application, the grain-elevators are not important.

Next we are cited to several examples of unloading apparatus for vessels, of which the English patent to Baillie, No. 10,380 of 1888, is as relevant as any. In this device, which was for transferring coal from a barge to the ship alongside, there was a receiving bin or hopper located in an elevated framework or staging on the barge, and from which a depending chute carried the material away by gravity to the proper bunker in the ship. The coal contents of the barge were raised to this point by an endless chain of buckets over an inclined mast or support pivoted to the vertical frame at its upper end. Evidently, as the contents of the hold of the vessel became lowered, this mast must be extended farther down, or farther to one side, and this could be done either by an extension of the lower end or by lowering the upper pivoted point. The patent shows both methods of adjustment. The bin and pivot could be lowered upon this supporting-stage a short distance—not more than the height of the bin. The point of final delivery was not changed. Such vertical adjustability as there was in the bin was incidental to raising and lowering the whole "tower" to accommodate it to the point where elevation began. We do not find here any substantial disclosure of the real novelty of Callahan's invention, as above stated.

This leaves for consideration only the patent to Theiss *et al.*, No. 866,166, of September 17, 1907. It is not to be doubted that this is suggestive of the idea and the apparatus of Callahan; whether it is more than a mere suggestion is the question. Theiss's apparatus, like Baillie's, was intended for unloading coal from a barge and loading it into the hold of a ship. It consisted essentially of a tower-shaped structure permanently erected upon the deck of a barge or scow. It was intended to reach a distance substantially higher than the coal-receiving hatchways of the particular ship which might be selected to be served; there was never occasion to make it any higher. This tower carried an elevator car or skip which was loaded with coal when it was at the bottom of the tower, and then was elevated as far as necessary to be dumped into a receiving-bin, which bin was capable of vertical adjustment on the tower. This receiving-bin in turn dumped into a chute, which, at its lower end, discharged through the hatchway of the vessel to be loaded. This chute was not revolubly connected with the bin or tower. It could not be moved laterally. It was carried, by the tower, in ways or guides which gave the chute its inclination and permitted it to slide therein longitudinally. There was a permitted adjustment of the guide by which the angle of inclination could be changed, but this was done by releasing and readjusting and refastening the guideways, and could not be done as a part of the operation of the device while in use.

The adjustment and fixing of the chute, in order to discharge into a desired hatchway, was a complicated matter. First, the carrying scow must be so positioned and fastened with reference to the ship that the tower was exactly opposite the hatchway. Second, the receiving-bin and the chute must be adjusted vertically in the tower at such a position that the chute, in its carrying-guides, would

[2] Claim 5. An apparatus for the purpose described, comprising a tower, a conduit extending laterally therefrom, a suitably supported horizontally movable boom carrying the conduit, said boom being adjustably connected with the tower and adapted to be arranged at various points in the height thereof, means for raising plastic material to the point desired in the height of the conduit [tower], and means for receiving plastic material from the raising means and conducting the same to the conduit; the said receiving and conducting means being adjustable in the direction of the height of the tower.

[3] We speak thus of Callahan's form, because of the necessary effect of the filing dates, the concession, and the form of the issued claims.

be pointed at the hatchway. Third, the chute must be slid downward and outward, in the direction at which it was pointed, until its lower end entered the hatchway. If, then, it was next desired to reach another hatchway on the same transverse line, the vertical adjustment of the bin and the chute-carrier, and the aiming of the chute at the new hatchway and its longitudinal extension into contact therewith, must be repeated. If it were desired to reach hatchways farther forward or aft, the scow and its entire apparatus must be released and floated alongside the ship to its new position. In the broadest sense, this patent shows a plan of elevating material to an adjustable vertical height, and from there distributing it by gravity to selected positions upon a lower level; but it shows this idea in a very rudimentary form. It would be practically useless, for the purposes now involved.

In details of construction and of claim reading, there is ample differentiation. Claim 5 of Callahan, above quoted, will not read on Theiss. A comparison of the Theiss apparatus with this claim shows (*a*) that the Theiss apparatus is not "for the purpose described," in any restricted sense of that phrase; (*b*) that Theiss has a relatively short supporting-framework rather than a relatively high and distinctive tower; (*c*) that, while Theiss has "a conduit," it does not "extend laterally therefrom," excepting in the most general sense; (*d*) that Theiss has no "suitably supported horizontally movable boom carrying the conduit," nor anything which approximates such a boom: (*e*) that, since he has no boom at all, of course he has no boom "adjustably connected with the tower and adapted to be arranged at the various points of the height thereof;" but it must be said that Theiss's conduit itself has this vertically-adjustable connection with the tower. (*f*) The remaining elements of the claim are literally met well enough by Theiss, save for the distinction as to their use with plastic material.

(4) The question presented by Theiss seems not to be one merely of double use, because the structural differences are too great; but, if the physical resemblance were much closer, the defense of double use would be far from satisfactory. (See *Ansonia Co.* v. *Electrical Co.*, 144 U. S., 11, 18; 12 Sup. Ct., 601; 36 L. Ed., 327; *Potts* v. *Creager*, 155 U. S., 597, 606–608; 15 Sup. Ct., 194; 39 L. Ed., 275; *Hobbs* v. *Beach*, 180 U. S., 383, 390; 21 Sup. Ct., 409; 45 L. Ed., 586; *Gold* v. *Newton*, C. C. A., 2, 254 Fed., 824, 827; 166 C. C. A., 270.) Certainly, the art of loading coal into a ship for fuel is not the same art as that of distributing wet concrete to a building structure; nor is the analogy very close. It is not at all certain, even if probable, that an experienced building engineer, considering methods of handling wet concrete for a skyscraper, would call to mind a coal-handling apparatus on a harbor-scow. On the other hand, it impresses us as a bold and original thought that this material could be handled in this way. Distributing mush concrete through gravity-chutes by one apparatus throughout the whole course of building obviously involved difficulties; it had never been handled by gravity-chutes at all, excepting under simple conditions where these difficulties did not exist, and then, perhaps, had been done only on paper. On one side was the danger that it would adhere to the chutes and set and choke up the pipes, at least at the valves and gates; on the other side, the risk that the elements would disintegrate, and the water and the cement and the broken stone fall in separate strata.

Callahan's conception, that this material could be thus treated so as to deliver it from the ground all about the successive several floors of a high building and with practically no manual labor, except that involved in the story by story adjustment of the apparatus, involved, we think, inventive thought of a high order, when accompanied as it was by the devising of suitable apparatus to carry out the thought, which apparatus substantially differed from anything which had ever been constructed for any purpose, although every element was old. It is true, in a sense, that the Callahan device is produced upon the basis of Theiss's structure by substituting for the longitudinally sliding and extensible delivery-chute of Theiss, the revolubly-mounted chute of the grain-elevators; but this is not the whole truth. Callahan built up his tower to a height never thought of by Theiss, and which Theiss could not have accomplished without capsizing his barge; and Callahan supplied a chute-supporting boom attached to the receiving-hopper and vertically adjustable with it, a feature which the grain-elevators did not have and could not have used. He thereby laid the basis for adapting the structure to use fairly distinct from that of either a coal-elevator or a grain elevator.

As upon every such question, there is no authoritative decision which compels one or the other conclusion. The doubtful inference is rather one of fact; but we select and refer to a few instances where invention has been found—by the Supreme Court or by this court—and the facts of which may well be thought to present no stronger inferences in its favor than do those of the instant case: *Loom Co.* v. *Higgins*, (105 U. S., 581, 590; 26 L. Ed., 1177;) *Hobbs* v. *Beach*, (180 U. S., 383, 393; 21 Sup. Ct., 409; 45 L. Ed., 586;) *Expanded Metal Co.* v. *Bradford*, (214 U. S., 366, 381; 29 Sup. Ct., 652; 53 L. Ed., 1034;) *National Co.* v. *Aiken*, (163 Fed., 254, 259; 91 C. C. A., 114;) *Warren* v. *Owosso*, (166 Fed., 309; 92 C. C. A., 227;) *Morgan Co.* v. *Alliance Co.*, (176 Fed., 100, 109; 100 C. C. A., 30;) *Ferro-Concrete Co.* v. *Concrete Co.*, (206 Fed., 666; 124 C. C. A., 466;) *International Co.* v. *Sievert*, (213 Fed., 225; 129 C. C. A., 569.)

(5) The test of the presence of invention in a new assembly of old elements is sometimes said to be whether a new result is accomplished. This is often not a helpful rule, because its application invoves definition of the phrase "new result," and this opens the original difficulty. Within a narrow defi-

nition, every new combination of old elements gets a new result; but this is not the sense in which the phrase is rightly used as indicative of invention. The recent opinion of this court in *Huebner Co.* v. *Matthews Co.*, (253 Fed., 435; 165 C. C. A., 177) illustrates this situation. The ultimate practical result at which the patentee and his predecessors aimed was to carry packages by gravity upon a runway from one place to another. The patentee was the first to accomplish this with such a degree of efficiency as to make the device commercially popular; but the same result, except in efficiency degree, had several times been reached before, and by apparatus so similar as to be superficially indistinguishable. The patentee had simply added the well-known and common mechanical refinements and expedients already used by others, even in the same art—*e. g.*, he used roller-bearings, instead of ordinary journal-boxes—and we declined to regard this as a new result. We have no intention to depart from that line of our recent decisions[1] of which this one is typical; such refinements are not inventions. On the other hand, we recall no instance of combinations of old elements which has been held to produce "a new result" in a patentable sense and which better deserves that commendation than does Callahan's. The quasi-automatic elevation and distribution of wet concrete under the varying conditions of progressive building and by a single apparatus was an entire novelty. No one had tried to do it; apparently, no one had thought of it; it was useful in a very high degree; and when we find a new result in this complete and extreme sense accomplished by a confessedly new combination—though of known means—we think both the purpose of the patent law and the rightful application of the decisions thereunder require that it should be awarded the merit of invention.

(6) We have stated our conclusion that the device of the patent is not an aggregation in the sense that it represents such a mere assembling of old elements as might have been made by the exercise of only ordinary skill. It is at least equally clear that the device is not an aggregation in the more technical sense of the word, but is rather a true combination. It is true that the use of the apparatus involves successive steps, and is at each of its stages under direct or indirect manual control; but in a fair sense the entire operation of elevating and distributing the concrete is a unitary thing. From the time it starts on its journey from the ground to the time it is deposited in the forms, its progress might well be automatic. There is clear distinction between this performance and that of the associated washing and wringing machines, discussed by the Supreme Court in *Grinnell Co.* v. *Johnson Co.*, (247 U. S., 426; 38 Sup. Ct., 547; 62 L. Ed., 1196) In the latter case, both the judgment and the hand of the operator were involved, in submitting to the second operation the material which had finished the first; the juxtaposition of the two machines was a mere matter of convenience. In the present case, the operator can, at the most, only interfere to prevent the otherwise normal completion or second part of what is intended to be the unitary work; and even then his interference will only temporarily stay the normal action. We collected and commented on the decisions of the Supreme Court and other courts on this subject in *Gas Co.* v. *United Co.*, (228 Fed., 684; 143 C. C. A., 206.) Callahan's patent should not be condemned as an aggregaton.

We do not overlook the fact that some, and perhaps a considerable portion, of the practical and commercial success has been due to the use of the feature covered by the Smith patent; but this does not detract from the patentable and inventive merit of Callahan's idea. An oscillating or swinging chute, even without Smith's secondary swivel, would make the primary distribution of the concrete throughout the floor or level, leaving the secondary and more accurate distribution to be accomplished by further means. We have held that the particular means adopted by Smith did not involve invention, and we can hardly say that much of the credit due to public use should be taken away from Callahan, because he had not himself adopted an improvement and refinement which, however important to commercial success, was within the grasp of the men ordinarily skilled in the art.

We have considered claim 5. Claims 1, 2, and 13, also in suit, use more general terms and are superficially somewhat broader; but we think, in connection with the specification, they necessarily intend that the means for receiving the concrete from the raising means and taking it to the conduit are vertically adjustable in the tower. This may fairly be implied from the requirement that the material is to be raised to a "suitable point" in the tower. It is then seen that all these claims involve what we have thought Callahan's meritorious invention, resting upon the successive story-by-story operation of the device. With this interpretation, they are not very different from claim 5, but should be treated as other expressions of the same thought in terms nominally of somewhat broader equivalency. These claims, also, should be considered valid.

The infringement is not denied.

The decree below, as entered, must be set aside, and the record remanded for a new decree, modified in accordance with this opinion.

ON PETITION FOR REHEARING.

(7) The application for rehearing brings to our attention a matter not mentioned in the opinion. We selected claim 5 as the one most suitable for study, because it expressly incorporated those features in which we thought patentable novelty was to be found. One of these features was the horizontally-movable boom carrying the conduit, and—

being adjustably connected with the tower and adapted to be arranged at various positions in the height thereof.

We assumed that this referred to a vertical adjustment of the boom in the tower. The assumption

[1] *Berger Co.* v. *Trussed Co.*, (257 Fed., 741; —— C. C. A., ——;) *Edwards* v. *Dayton Co.*, (257 Fed., 980; —— C. C. A., ——;) *Van Dorn Co.* v. *Mathis Co.*, (260 Fed., 400; —— C. C. A., ——.)

is now challenged, because it is said that the adjustable connection between the boom and the tower was that mechanism which provided for a horizontal adjustment of the upper end of the boom on a horizontal track (which defendant has not used), and that the provision for vertical change of the boom in the tower is not adjustability, but rather refers to a disassembling of the parts in one location and reassembling them in another. It is true that the specification refers to a horizontal adjustability, but we do not think that it is this capacity to which claim 5 refers—at any rate, this inference is not clear enough to justify limiting the claim to a comparatively unimportant detail. Such an inference is contradicted, both by the fact that this horizontal adjustability of the boom on the tower is made the special characteristic of a group of claims not in suit, and by the fact that the thought is stated in the claim in immediate connection with the reference to "various points in the height" of the tower, and after one reference has been made to the horizontal motion of the boom and the reference to that function apparently finished, while the draftsman turned to the thought of vertical change. It is true, also, that in the form of the invention shown in the drawings, and specifically described, the vertical change was to be made by taking out bolts, removing the horizontal platform, raising it, and bolting it again to a new position, and that this is not adjustability in the most precise definition. However, it is well within the sense in which the word is very often used, and we must define it as the patentee intended. For these reasons we adhere to the interpretation of the claim in this respect which the opinion assumed.

It is also true enough that Callahan specifically contemplated building his tower up section by section, as the building progressed; but this was a matter of preference. His drawing shows the completed tower, permitting operation anywhere along its height, and observation of his plan of erection does not change our conception of the real disclosure.

In other respects, further review of the case leaves our stated conclusions unchanged, and the application for rehearing will be disallowed.

Disclaimers.

1,125,498.—*Thomas I. Duffy*, Chicago, Ill. DEMOUNTABLE WHEEL. Patent dated January 19, 1915. Disclaimer filed August 20, 1920, by the assignee, by mesne assignments, *Wire Wheel Corporation of America.*

Enters a disclaimer—

"To that part of the specification which reads as follows:

"When driving over rough and uneven roadways, it is thought that other forces are set up, due to road resistances, varying applications of motor power to the wheels and side tipping, produced by swaying or the weight of the vehicle, which supplements or replaces the first mentioned force to automatically tighten the locking ring. For instance, assuming that the hand of the screw-thread to tighten the ring is in the direction of forward rotation of the wheel, forward rotation of the outer hub member relatively to the inner hub member, when the ring is loosened, acts at the limits of the side tipping of the wheel with a forward clutch action to tighten the locking ring, while reverse relative rotation of the hub members is ineffective to further back off the ring, because acting against a direction of screw-thread which is ineffective to maintain clutching engagement between the ring and outer hub member. Again, with the same arrangement of the locking ring and hub members a like tightening effect is produced with a screw-thread which runs in a direction opposite to the direction of rotation of the wheel, inasmuch as the ring is free from engagement with the outer hub member during the interval between the limits of side tipping of the outer wheel part, so that said ring tends to lag relatively to the positively driven wheel, with the result that the screw-threaded inner hub part is screwed into the lagging ring. Any tendency to loosen the ring due to clutch action between it and the outer hub member and relative rotation of the hub members is counteracted because the direction of the screw-thread is ineffective to maintain such clutching action. The tendency to tighten the ring, however, due to these factors is effective because running with the screw-thread and supplements the lagging action of the ring to tighten the same. It will thus be seen that the contact of the locking ring with the inner and outer hub members coöperate with forces generated by the eccentric relation of the hub members and the side tipping of the outer hub member on the inner hub member, due to varying road resistance to wheel travel and to varying application of power to the wheels, and also conditions which cause side tipping of the vehicle, to automatically tighten the locking ring, regardless of the hand of the screw thread on the ring and the hub member to which it is screw-threaded."

1,287,331.—*John W. Jepson*, Buffalo, N. Y. ELECTRICAL SYSTEM OF DISTRIBUTION. Patent dated December 10, 1918. Disclaimer filed August 20, 1920, by the assignee, *Gould Coupler Company.*

"Hereby disclaims from each and every claim of said Letters Patent any electrical system of distribution except as the combination recited in the claim is so constructed, designed, and arranged as to effect the result specified in the patent, to wit: the avoidance of sparking at the commutator brushes when the variable speed generator is operating at its higher speeds."

Patents Nos. 1,352,420 to 1,353,134.

THE

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Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 20, 1920.

Pyro Paint Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of George F. Johnston, of Fort Dodge, Iowa, for registration of a trade-mark and trade-mark registered May 16, 1899, No. 32,902, to Pyro Paint Company, of 37–39 Commercial Place, Norfolk, Va., and a notice of such declaration sent by registered mail to said Pyro Paint Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Pyro Paint Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULTSON,
First Assistant Commissioner.

Correction of Drawings.

RULE 72. • • • • •

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Substitute drawings will not be admitted in any case unless required by the Office.

Adverse Decisions in Interference.

PATENT NO. 1,298,861.

On August 6, 1920, a decision was rendered that William A. Babbott was not the first inventor of the subject-matter covered by claims 1 and 3 of his Patent No. 1,298,861, subject, "Latches for automobile-doors," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,302,492.

On August 2, 1920, a decision was rendered that Albert L. Arenberg was not the first inventor of the subject-matter covered by claim 1 of his Patent No. 1,302,492, subject, "Lighting unit," and no appeal having been taken within the time allowed such decision has become final.

Drawings.

PRECAUTIONS TO BE OBSERVED IN FORWARDING DRAWINGS TO THE UNITED STATES PATENT OFFICE.

Where drawings are to be filed in connection with an application for Letters Patent in the United States Patent Office, each sheet, before it can be accepted by the Office as a part of the application, must be signed in the name of the inventor at the lower right-hand corner, either by him or by an attorney whose written authorization from the applicant is filed in connection with the application. The signatures should never be written on a line parallel with the longer edges of the sheet, one of the shorter edges being always regarded, for the purpose of locating the signatures, as the lower edge of the sheet. The signatures must all be within the margin-lines of the sheet and below the lines of the drawing. The title of the invention should be written with pencil on the back of each sheet of drawings.

When there are filed on the same day two or more applications by the same inventor, each of the documents and drawings belonging to the same application should have placed thereon the same letter or number, which should be different from the letter or number placed upon those of any other of the applications.

It is desirable that all parts of the complete application, including the drawings, be deposited in the Office at the same time. Should, however, the other parts of the application be filed before the drawings are sent, the latter when forwarded should be accompanied by a letter stating the number of sheets inclosed, and that the drawings are to be filed with the other parts of the application, giving the date at which such other parts were filed in the Office, the name of the inventor, and title of the invention. If the application has received a serial number, that should also be given, and it should be indorsed with pencil on the back of each sheet of drawings. The letter should also state, if such be the case, that the new drawings are to be substituted for those previously filed.

Amendment Under Rule 78.

The entry of an amendment under Rule 78 takes much more time than would its entry during the regular prosecution of the case, since the docket clerk must get the file from the Issue and Gazette Division, send it to the Examiner for report, submit it to the Commissioner, notify the applicant of the Commissioner's action, and if the petition is granted return the file to the Examiner for entry of the amendment.

Attorneys are therefore requested to take all possible steps to obviate the necessity of the presentation of such an amendment.

APPLICATIONS UNDER EXAMINATION

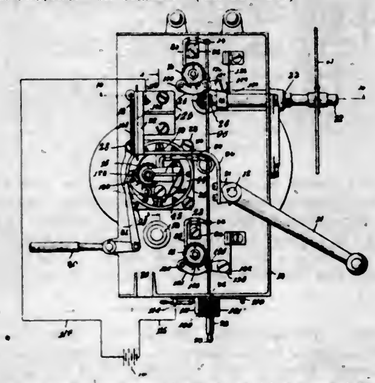
Condition at Close of Business September 4, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 26	Mar. 11	616
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Jan. 2	Feb. 27	995
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 17	Apr. 16	225
234	4. Conveyors; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Nov. 17	June 1	1,607
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Apr. 19	May 15	484
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Apr. 3	June 21	544
312	7. Games and Toys; Optics; Photography; Velocipedes	Apr. 29	June 3	891
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	June 14	July 19	451
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Feb. 28	Mar. 29	582
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 24	July 6	1,064
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Apr. 7	Apr. 15	405
222	12. Machine Elements	Dec. 29	June 1	1,121
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling, Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Dec. 15	June 25	1,175
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	July 19	710
306	15. Bread, Pastry, and Confection Making; Coating; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 17	Apr. 20	1,309
111	16. Radiant Energy; Telegraphy; Telephony	Jan. 2	Mar. 2	905
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	June 18	July 10	192
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Dec. 11	Apr. 5	1,272
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 12	Mar. 15	636
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Sales; Undertaking.	June 1	May 20	714
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 29	June 18	532
249	22. Aeronautics; Firearms; Ordnance	June 11	June 24	263
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 13	June 9	766
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Mar. 3	June 4	593
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	July 23	July 17	215
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Jan. 17	Feb. 12	790
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	June 1	June 1	565
225	28. Internal-Combustion Engines	Feb. 16	May 14	793
147	29. Boring and Drilling; Chucks or Sockets; Cooperage; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Mar. 5	June 9	665
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 31	July 22	1,144
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 24	Mar. 5	1,407
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Jan. 2	June 10	1,177
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Apr. 14	June 14	471
304	34. Electricity-Transmission to Vehicles; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	July 24	July 7	218
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	July 14	Aug. 5	380
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Apr. 2	Apr. 24	1,221
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 16	Mar. 26	1,269
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Apr. 8	May 3	863
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 25	Dec. 28	1,327
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 5	Mar. 15	1,080
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Feb. 7	June 5	865
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Feb. 16	Mar. 23	1,205
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Dec. 22	Mar. 16	1,091
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Apr. 24	July 26	346
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Mar. 8	Apr. 2	1,056
332	46. Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 30	Apr. 1	658
264	47. Brakes; Clutches; Fluid Pressure Brake and Analogous Systems	Jan. 8	Nov. 25	961
	Oldest new case, Oct. 25; oldest amended, Feb. 12			
	Total number of applications awaiting action			37,819
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Mar. 18	Aug. 9	2,852
	Designs	Mar. 17	Apr. 27	991
	Labels and Prints	May 15	Aug. 19	573

PATENTS

GRANTED SEPTEMBER 14, 1920.

1,352,420. PICTURE-PROJECTING MACHINE. WILLIAM C. ALBERS, New York, N. Y., assignor to Albert F. Pierce, Brooklyn, N. Y. Filed Aug. 10, 1917. Serial No. 185,456. 42 Claims. (Cl. 88—17.)

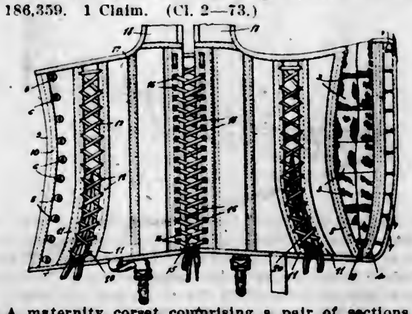


1. A motion picture projecting machine comprising, with a motion picture film having insert portions, means for feeding said film, insert stop mechanism for stopping the film at a desired point for a desired period of time, and means for moving said mechanism, said mechanism comprising sprocket-means for engaging the film and clutch means for engaging the sprocket means.

1,352,421. PROCESS OF PRESERVING MANUFACTURED OR LEAF TOBACCO. VICENTE CATALÁ ALSINA AND GENARO FERNANDEZ, Buenos, Aires, Argentina. Filed June 26, 1916. Serial No. 105,924. 1 Claim. (Cl. 131—55.)

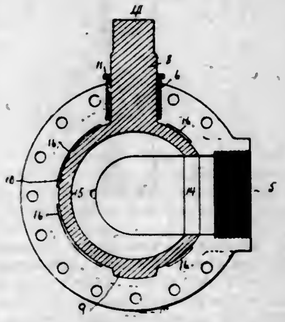
A process of preventing injury to tobacco products, by the tobacco moth and other similar insects, which comprises subjecting the tobacco products to the odors emanating from a mixture comprising a mixture of vanilla beans and tonka beans, said mixture being placed in proximity with the said tobacco products, but being protected from actual contact therewith, and allowing the tobacco products to absorb said odors.

1,352,422. MATERNITY-CORSET. CAROLINE E. ANDERSON, Park City, Utah. Filed Aug. 15, 1917. Serial No. 186,359. 1 Claim. (Cl. 2—73.)



A maternity corset comprising a pair of sections and one section being of a greater length than the other section to form a front portion, one side portion and a portion of the back of the corset, the second section forming one side portion and a portion of the back, means adjustably connecting the sections together at their rear edges, a reinforcing fly formed on the front edge of the second section and adapted to underlie the front edge of the first section, means detachably connecting the sections at their front edges, each section being divided in a pair of parts and elastically connected, lacing strings adjustably connecting the parts of said sections, said front portion of the first section being constructed from relatively broad overlapping elastic strips that gradually increase in length from the lowermost strip, said strips having their upper edges arranged in rear of the lower edges of the adjacent strip.

1,352,423. CASING-HEAD. PAUL ARBON, Tulsa, Okla. Filed Apr. 21, 1919. Serial No. 291,578. 3 Claims. (Cl. 251—101.)

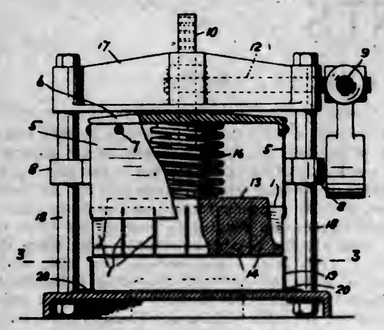


1. A casing head for gas and oil wells having in combination a shell consisting of sections adapted to be detachably secured together, each section having a nozzle and a semicircular projection forming one half of a third nozzle and each section having one half of bearings for trunnions, said bearings being arranged with their axes at right angles to the axes of the respective nozzles, and a rotatable valve having a diametrical passage therethrough and a passage or opening extending at right angles from the diametrical passage and having trunnions with their axes at right angles to the axes of said passages or openings, one of the trunnions extending outside of the shell.

1,352,424. DIVIDER FOR DOUGH OR THE LIKE. WILLIAM B. ABRAMS and ROBERT I. GAY, Philadelphia, Pa. Filed Nov. 20, 1919. Serial No. 339,490. 2 Claims. (Cl. 107—26.)

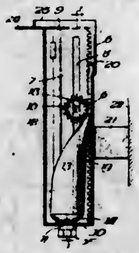
1. In a divider for dough and the like the combination of a head, housing sections demountably attached to the head and to each other and provided with openings, a grillage of straight blades notched together and provided with extensions demountably arranged in said openings and held by the walls thereof immovable in respect to the head, and a stripper base arranged in the housing and

having yielding connection with the head and provided with rectangular fingers integral with the base and ar-



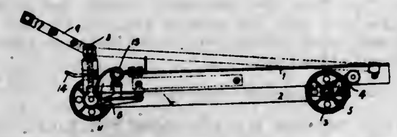
ranged in the interstices of the grillage, substantially as described.

1,352,425. DISPENSING DEVICE. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 10, 1919. Serial No. 288,929. 3 Claims. (Cl. 221—60.)



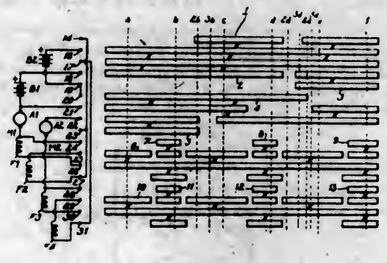
1. In a dispensing device of the character described, the combination of a holder for a loaded tube, said holder having vertically slotted side walls and an aperture support to receive the nozzle of the tube, a roller within said holder having its spindle extending through the slots of said side walls, a knob on said spindle, and rack and pinion mechanism for causing said roller to travel over and squeeze the tube as it rotates.

1,352,426. ELEVATING-TRUCK. JOSEPH ALEXANDER BUTTERWORTH, Loughborough, England, assignor to Herbert Morris, Limited. Filed Sept. 27, 1919. Serial No. 326,990. 2 Claims. (Cl. 254—8.)



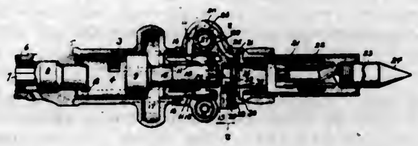
1. An elevating truck comprising a wheeled under frame, a top frame, rockers connecting said frames, a lug pivoted to one of said rockers, and an elevating handle fitted to said lug, said handle movable from horizontal position transverse to the truck to vertical position, and from said vertical position to a position longitudinally of the truck whereby to tilt said rockers, and from said position longitudinally of the truck to a horizontal position transverse to said truck.

1,352,427. SYSTEM OF CONTROL. ANDREW H. CANDEE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 3, 1917. Serial No. 146,456. 6 Claims. (Cl. 172—291.)



1. In a system of control, the combination with a plurality of sources of energy and a plurality of motors, of means for operating the motors in series relation and the batteries in parallel relation, for connecting the batteries in series with one motor, and for operating the batteries in series and the motors in parallel-circuit relation.

1,352,428. ROCK-DRILL. HARRY M. CHASE, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo, a Corporation of Delaware. Filed June 3, 1919. Serial No. 301,450. 23 Claims. (Cl. 121—9.)



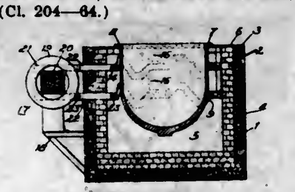
1. In drilling apparatus of the character described, the combination with a drilling motor, of fluid actuated feeding means therefor, means for supplying motive fluid under pressure to the motor and feeding means, and means for increasing the pressure of the fluid in the feeding means above that of the fluid supply.

1,352,429. SHORE-PROTECTOR. ST. JOHN CLARKE, Bogota, N. J. Filed Jan. 14, 1918. Serial No. 211,766. 7 Claims. (Cl. 61—37.)



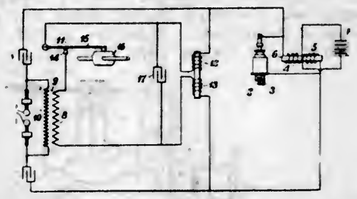
1. A shore protecting structure adapted to be laid on sloping shores comprising a slab formed on its under face with sets of intersecting partition ribs constituting open bottom cellular compartments and supporting the slab a considerable distance above the surface of the beach on which it is laid, said slab being formed with filler openings through which each compartment may be filled.

1,352,430. INDUCTION SOLDER-POT HEATER. ORA A. COLBY, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 13, 1919. Serial No. 344,660. 10 Claims. (Cl. 204—64.)



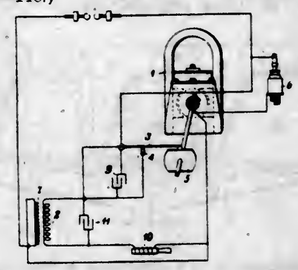
4. In an electrically-heated apparatus, the combination with a container and supporting means therefor, of a transformer having primary and secondary windings, a grid resistor connected to the secondary winding of said transformer, said resistor being wound first in one direction around said container and then wound in the reverse direction a substantially equal number of turns, and means on said resistor for supporting it on said supporting means.

1,352,431. IGNITION SYSTEM. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 26, 1910. Serial No. 583,857. 6 Claims. (Cl. 123—148.)



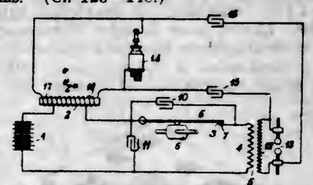
1. An ignition system comprising a source of current, a primary circuit connected to the source and including an interrupter, a secondary circuit inductively related to the primary circuit, a spark device having permanently separated terminal members in shunt to the secondary circuit, and a spark plug connected between the terminals of both the source and the secondary circuit.

1,352,432. ELECTRICAL IGNITION SYSTEM. FRANK CONRAD, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 3, 1910, Serial No. 541,787. Renewed Jan. 8, 1912. Serial No. 670,131. 25 Claims. (Cl. 123—148.)



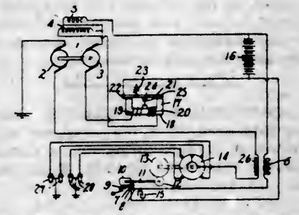
1. An ignition system comprising a source of current, a primary circuit connected to the source, a secondary circuit that is inductively related to the primary circuit and includes a permanently open gap in series therewith, and a spark plug having its terminals connected both to the source directly and to the secondary circuit.

1,352,433. ELECTRICAL IGNITION SYSTEM. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 26, 1910, Serial No. 583,858. Renewed Apr. 4, 1917. Serial No. 159,844. 24 Claims. (Cl. 123—148.)



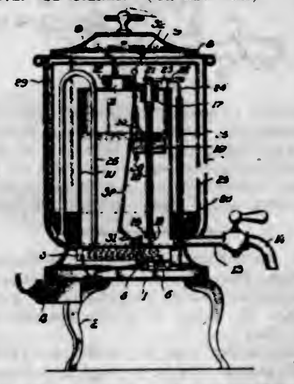
14. An ignition system comprising a source of current, a spark plug, means receiving current from said source for producing an oscillatory discharge to initially establish a spark at the spark plug, and energy storing means that receives energy from said source and supplies it to the spark plug following the initially established spark.

1,352,434. IGNITION SYSTEM. FRANK CONRAD, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 5, 1913, Serial No. 771,894. Renewed Jan. 20, 1920. Serial No. 352,910. 12 Claims. (Cl. 123—148.)



1. In an ignition system, the combination with a source of current at a relatively high voltage, of a circuit connected to said source and having a gap normally impassable to said current, of means for causing said current to flow across said gap, said means comprising a source of current at a relatively low voltage and an induction coil having its secondary winding in said circuit.

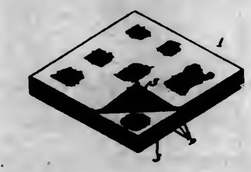
1,352,435. BEVERAGE-PREPARING MACHINE. EDWARD C. DENNERT, Detroit, Mich., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 8, 1919. Serial No. 329,272. 12 Claims. (Cl. 219—44.)



9. A beverage preparing machine comprising a base, an outer receptacle on said base, an inner receptacle in

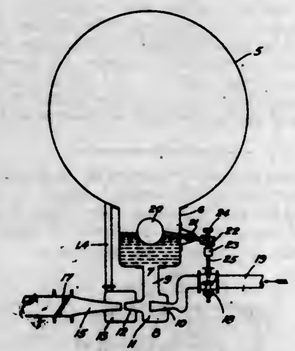
said outer receptacle having an outlet thereto, a siphonic tube between said receptacles adapted to transfer liquid back and forth between said receptacles, and a heating means in said base for the inner receptacle.

1,352,436. METHOD OF FORMING COMPOSITE BODIES. DANIEL ADAM DICKEY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 30, 1918. Serial No. 268,950. 7 Claims. (Cl. 154—2.)



2. The method of forming bodies of superimposed layers of fibrous material and a phenolic condensation product as a binder which comprises superimposing layers of sheet material impregnated with the binder between protective layers of untreated material, subjecting the plate thus assembled to heat and pressure sufficient to partially compact it and soften the binder without materially curing it, dividing the plate into sections, removing the protective coatings from the sections, superimposing certain of the sections and subjecting the body thus assembled to heat and pressure sufficient to fully compact it and transform its binder into its hard and substantially insoluble and infusible state.

1,352,437. CONDENSING APPARATUS. RAYMOND N. EHRHART, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed June 28, 1917. Serial No. 177,557. 3 Claims. (Cl. 162—3.)



3. Condenser apparatus comprising a condenser, a hot well communicating therewith, an ejector, including steam and discharge pipes, arranged exteriorly of the hot well and communicating therewith, a valve for the steam pipe, float means within the hot well adapted to open and close the valve, and a check valve in the discharge pipe.

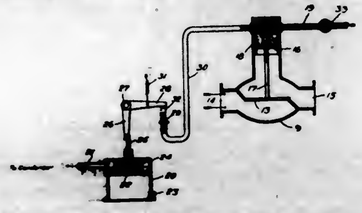
1,352,438. CONDENSER. RAYMOND N. EHRHART, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Sept. 29, 1917. Serial No. 194,005. 13 Claims. (Cl. 60—94.)

1. In combination with the casing of a turbine having an exhaust passage and an exhaust port formed therein, means for delivering cooling liquid into the exhaust passage toward the central portion of the casing for condensing motive fluid discharged from the working passages of the turbine, and a trough receiving the said liquid disposed between the cooling liquid delivering



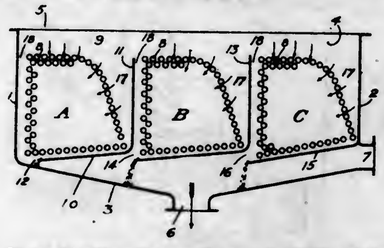
means and the axis of the turbine for constantly preventing the cooling liquid from entering the working passages of the turbine and for directing the liquid through the exhaust port.

1,352,439. VALVE-UNLOADING MECHANISM. RAYMOND N. EHRHART, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Nov. 6, 1917. Serial No. 200,627. 13 Claims. (Cl. 137—53.)



1. In a fluid operated power developing system, a pressure actuated relief valve for the system adapted to be opened by pressure in the system when the pressure in the vicinity of the said valve exceeds a determined amount, and means controlled by the pressure in a remote part of the system for causing the valve to open at a pressure less than the determined pressure.

1,352,440. MARINE CONDENSER. RAYMOND N. EHRHART, Edgewood, Pa. Filed Aug. 21, 1918. Serial No. 250,905. 16 Claims. (Cl. 257—43.)



1. In combination in a condenser, a relatively shallow shell, a nest of tubes located within the shell and divided into separate groups, each having substantially converging paths of steam flow and angular partitions located within the shell and forming side and bottom walls of separate condensing chambers for each group provided with a separate condensate discharge.

1,352,441. RAILWAY-TRACK SCALE. ALONSO W. EPRIGHT and WILLIAM H. GRINDALL, Altoona, Pa. Filed June 10, 1918. Serial No. 239,173. 11 Claims. (Cl. 265—71.)



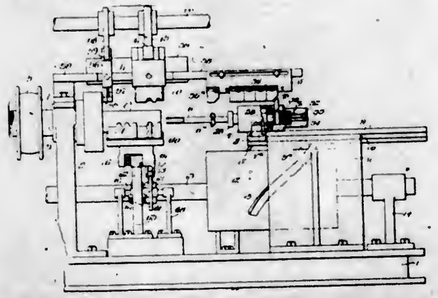
1. In a railway track scale the combination with the scale platform and its supporting levers, of means for preventing horizontal displacement of the platform comprising a horizontal metal plate parallel in length to the scale platform, and having one end fixed and having its opposite end rigidly connected to the scale platform approximately midway between the longitudinal ends of the latter.

1,352,442. MEANS AND METHOD OF TREATING STRINGED INSTRUMENTS TO IMPROVE QUALITY OF TONE. SILVIO FLORESCO, Berne, Switzerland. Filed Mar. 10, 1919. Serial No. 281,723. 8 Claims. (Cl. 84—44.)



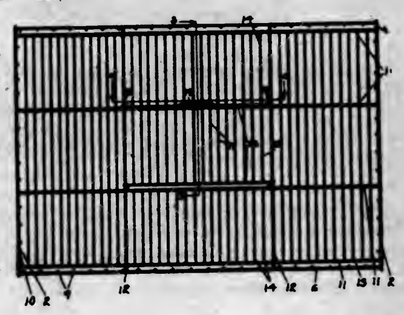
1. A method of improving the tone of instruments played with a bow, consisting in temporarily applying to the belly of the instrument before attachment thereto a local pressure, exercised at the place occupied by the bridge or adjacent thereto, which pressure considerably exceeds the normal pressure exercised by the usual strings of said instrument.

1,352,443. MACHINE FOR TURNING PLASTIC MATERIAL. EDWARD A. FRIES, Boston, Mass., assignor to Randall & Fries, Boston, Mass., a Copartnership consisting of Lillian L. Randall and Edward A Fries. Filed May 7, 1917. Serial No. 166,941. 21 Claims. (Cl. 144—46.)



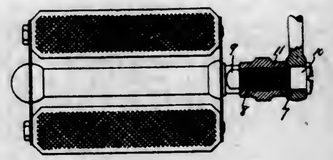
1. A turning machine of the character described, comprising a rotary hollow shaft adapted to support and rotate a bar of plastic material to be operated upon, a carrier for bore forming and end-forming tools movable axially of the hollow spindle, a bore forming tool and an end-forming tool both rotatable on said carrier, and means controlled by the forward movement of said carrier to hold the end-forming tool against rotation during its operation and to permit the same to rotate with the work at the end of its operating stroke.

1,352,444. POULTRY-CRATE. GEORGE J. GENEBACH, Battle Creek, Mich., assignor to United Steel and Wire Co., Battle Creek, Mich., a Corporation of Michigan. Filed July 3, 1920. Serial No. 393,926. 7 Claims. (Cl. 220—19.)



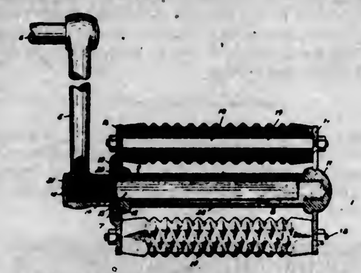
4. A poultry crate comprising end members each having top, bottom and upright bars formed as a continuous member, side top bars disposed in the angles of the end top and upright bars, top longitudinal bars disposed on the top end bars, a pair of spaced cross bars disposed below said top longitudinal bars with their ends resting upon the top side bars, top slats disposed on the under sides of said top longitudinal bars, the slats being omitted between the inner longitudinal bars and said cross top bars providing a door opening, a door comprising a pair of longitudinal bars and slats welded on the under sides thereof, said longitudinal bars having eyes on their ends slidably engaging said top cross bars, the outer longitudinal door bars being engaged with the cross bars at the outer side of one of the intermediate top bars and the inner longitudinal door bars being engaged with the cross bars on the inner side of such longitudinal top bar so that the door is supported for sliding movement, and a downwardly projecting keeper mounted on the top slats so that the end bar of the longitudinal door bars may be sprung over the same to hold the door in its closed position.

1,352,445. REPAIR OF BICYCLE-PEDALS. JOSEPH GLANZ, Hartford, Conn. Filed Nov. 23, 1918. Serial No. 263,834. 5 Claims. (Cl. 208—70.)



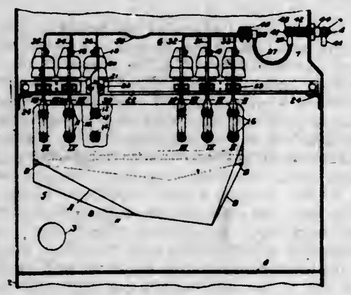
1. In combination with a bicycle crank arm having an opening, and a pedal structure embodying a pedal shaft having a threaded end extending beyond the pedal structure, a bushing separate from and terminating short of the pedal structure and having a threaded opening to receive the threaded pedal end, and means for securing said bushing to the crank arm.

1,352,446. CRANK-PEDAL. JOSEPH GLANS, Hartford, Conn. Filed Sept. 30, 1919. Serial No. 327,470. 9 Claims. (Cl. 208—70.)



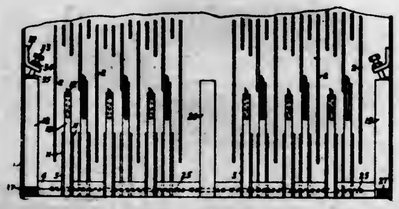
1. A pedal structure comprising a pedal supporting spindle, a bearing rotatable on said spindle, a pedal frame supported on said bearing, and means independent of the pedal frame detachably engaging said spindle to secure it in place and loosely engaging said pedal frame to rotatably retain it on the spindle.

1,352,447. CONTROL APPARATUS. ARTHUR J. HALL, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 20, 1916. Serial No. 138,004. 20 Claims. (Cl. 219—57.)



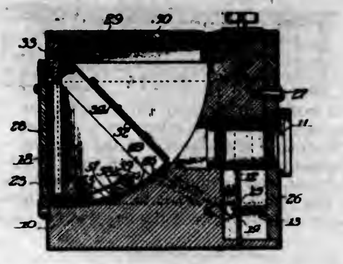
1. A polyphase liquid rheostat embodying sets of electrodes of different lengths for the several phases, the electrodes being arranged in an irregular rotation of phases in such manner that substantially equal active areas corresponding to the several phases are immersed at all liquid levels.

1,352,448. CONTROL APPARATUS. ARTHUR J. HALL and CHARLES C. WHITTAKER, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 9, 1916. Serial No. 136,033. 28 Claims. (Cl. 219—57.)



1. In a liquid rheostat, the combination with a tank and a plurality of electrodes contained therein, of a plurality of barrier members of non-conducting material extending upwardly from the tank bottom to a predetermined height above the lower edges of said electrodes.

1,352,449. REFLEX CAMERA. VARIAN M. HARRIS, Chicago, Ill., assignor, by mesne assignments, to Popular Reflex Camera Corporation, Chicago, Ill., a Corporation of Illinois. Filed Sept. 23, 1918. Serial No. 255,260. 14 Claims. (Cl. 95—42.)



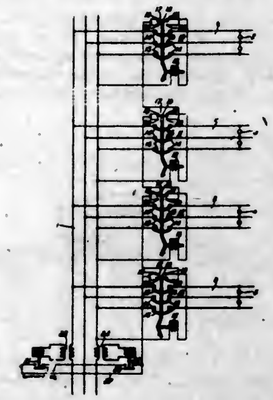
1. In a photographic camera adapted to hold a sensitized element in position for exposure, the combination with a lens structure, a focusing screen, means adapted when interposed between said lens structure and said sensitized element to reflect the image upon the focusing screen, shutter mechanism adapted for periodic interposition between said lens structure and said sensitized element, and means for causing a conjoint actuation of said reflecting means and said shutter mechanism, said last aforesaid means including a shutter retarder.

1,352,450. LIFT-BRIDGE. ADELBERT A. HENDERSON, Wilkinsburg, Pa. Filed Nov. 21, 1918. Serial No. 263,504. 7 Claims. (Cl. 14—42.)



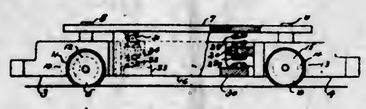
1. In a bridge structure, a vertically movable span, an adjacent tilting span, positively operating means for simultaneously effecting a vertical movement of the adjacent ends of said spans, and means for permitting a lateral movement of the opposite end of said tilting span.

1,352,451. CIRCUIT-INTERRUPTING SYSTEM. STEPHEN Q. HAYES, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 15, 1917. Serial No. 168,663. 6 Claims. (Cl. 175—294.)



I. The combination with a main circuit, a plurality of feeder circuits and interrupters for connecting the feeder circuits to the main circuit, of a relay responsive to the load in the main circuit for controlling the tripping of the interrupters, and auxiliary switches actuated by the interrupters for successively connecting the tripping devices in series with the contact members of the relay.

1,352,452. STORAGE-BATTERY LOCOMOTIVE. GEORGE H. F. HOLT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 5, 1917. Serial No. 159,965. 9 Claims. (Cl. 105—50.)



1. In a low-height locomotive, the combination of a low-height end section, a two-wheel truck supporting the same, another low-height section pivotally connected to said end section, a two-wheel truck connected to said other section, propelling means for the trucks, and means tending to maintain said trucks and sections in alinement.

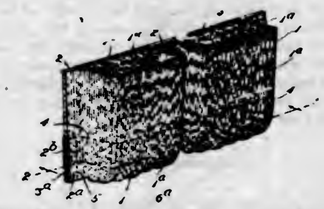
2. In a low-height locomotive, the combination of a low-height end section, a two-wheel truck supporting the same, another low-height section having means thereon for carrying storage-batteries or the like, a two-wheel truck connected to said other section, a propelling means mounted on each of said trucks, and yieldable means tending to maintain said trucks and sections in alinement.

3. In a low-height locomotive, the combination of a low-height end section, a two-wheel truck supporting the same, another low-height section having means thereon for carrying storage-batteries or the like, a two-wheel truck connected to said other section, a propelling means mounted on each of said trucks, and resilient means acting laterally and vertically and tending to maintain said trucks in longitudinal and horizontal alinement.

4. In a low-height locomotive, the combination of a low-height end section, a truck for supporting the same, another low-height section having means thereon for carrying storage-batteries and the like, means whereby said carrying means is pivotally connected to said end section, a truck connected to said other section, and propelling means for said locomotive.

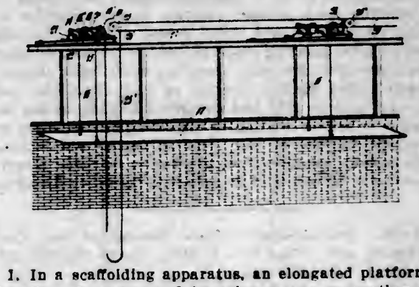
5. In a low-height locomotive, the combination of a low-height end section, a truck for supporting the same, another low-height section having means thereon for carrying storage batteries and the like, said carrying means having an end projecting over and supported on said end section, means for pivotally connecting said carrying means to said end section, a truck connected to said other section and propelling means carried by said trucks.

1,352,453. WOVEN CARRIER. VICTOR H. JENNINGS, Worcester, Mass., assignor, by mesne assignments, to Frank R. Batchelder, Worcester, Mass. Filed Aug. 8, 1918. Serial No. 248,873. 4 Claims. (Cl. 224—23.)



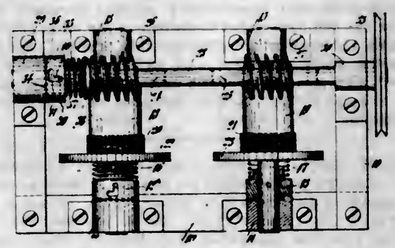
1. A carrier comprising a series of pockets woven to shape and having the body-web section intermediate two successive pockets woven with a passageway connecting the interior spaces of such pockets, and inserted linings having lateral continuations which are entered into the said passageway between the pockets.

1,352,454. SAFETY-SCAFFOLD. FRANK B. JOHNSTON, New York, N. Y., assignor to American Safety Device Company, a Corporation of New York. Filed June 30, 1916. Serial No. 106,782. 4 Claims. (Cl. 254—184.)



1. In a scaffolding apparatus, an elongated platform, a plurality of raising and lowering means supporting said platform suspended at a plurality of points, means operatively connecting all of said raising and lowering means, whereby operation of one of said last named means, simultaneously and equally operates all of said last named means, and means operable from one point for effecting said simultaneous and equal operation to cause equal movement of said platform at all points in a substantially level position.

1,352,455. SCAFFOLD-SUPPORTING MACHINE. FRANK B. JOHNSTON, New York, N. Y., assignor to American Safety Device Company, a Corporation of New York. Filed June 30, 1916. Serial No. 106,783. 2 Claims. (Cl. 254—184.)

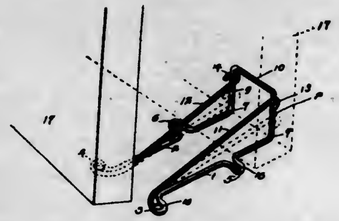


1. In a scaffold supporting machine, a frame, winding means supported thereby, locking means adapted to prevent rotation of said winding means in one direction, means for making said locking means inoperative to permit rotation of said winding means in either direction, suspension means adapted to be wound and unwound from said winding means, gear means in fixed relation with said winding means, an operating shaft supported on said frame and geared to said gear means, means operating to turn said shaft in either direction for raising or lowering the scaffold, the engagement of said gear means of said winding means, and said shaft, adapted through the locking of said winding means against rotation in one direction to prevent rotation of said shaft in one direction, locking means on said operating shaft adapted to prevent rotation in the other direction, said operating shaft being thereby normally locked against rotation in both directions, and means for making said last-mentioned locking means inoperative to permit rotation in the direction unopposed by said locking means of said winding means, said locking means of said winding means adapted to be made inoperative to permit rotation in the other direction.

2. In a scaffold supporting machine, a frame, a winding drum supported thereby, locking means adapted to prevent rotation of said winding drum in one direction, means for making said locking means inoperative to permit rotation of said winding drum in either direction, suspension means adapted to be wound and unwound from said winding drum, a worm gear in fixed relation with

said winding means, an operating shaft supported by said frame and provided with a worm geared to said worm gear, and operating to turn said shaft in either direction for raising or lowering the scaffold, the engagement of said worm and worm gear adapted through the locking of said winding drum against rotation in one direction to prevent rotation of said shaft in one direction, locking means on said operating shaft adapted to prevent rotation in the other direction, said operating shaft being thereby normally locked against rotation in both directions, and means for making said last-mentioned locking means inoperative to permit rotation in the direction unopposed by said locking means of said winding drum, said locking means of said winding drum adapted to be made inoperative to permit rotation of said shaft in the other direction.

1,352,456. DOOR-STOP. JOHN MELUS GUYNN, East Newport, Ark. Filed Feb. 9, 1920. Serial No. 357,136. 2 Claims. (Cl. 292—17.)



1. A door-stop formed of a single piece of wire and embodying horizontal substantially parallel members with eyes at one end and vertical portions at the other end and resilient independently bodily-movable inclined members extending from said eyes and having their free ends formed with portions to freely engage said vertical members and guide the inclined members in their vertical movements.

1,352,457. MOLD. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Apr. 4, 1919, Serial No. 287,580. Divided and this application filed Sept. 3, 1919. Serial No. 321,496. 5 Claims. (Cl. 18—5.)



4. A mold comprising a body portion having a chamber, a removable member closing one end of the chamber and provided with an opening, a rod adapted to seat in the opening, a removable spacing member having an opening to receive the rod, a pressure member corresponding to the spacing member but of less length, and a second pressure member adapted to fill the space in the mold chamber between the spacing member or the first pressure member and the inner surface of the wall of the mold.

1,352,458. SWIFT FOR REELING-MACHINES. WILLIAM C. KEYWORTH, Paterson, N. J. Filed Feb. 25, 1919. Serial No. 279,077. 6 Claims. (Cl. 242—113.)

1. In combination, with the radial socket of the center part of a swift, said socket having longitudinal slots terminating at their outer ends short of the outer end of the socket and thus forming a stop, a skein supporting member radially movable in said socket and including a gib slidable in said slots and a skein receiving part disconnectively attached to the gib and projecting radially from the socket, and a spring confined in the socket and holding the gib bearing against said stop, the gib being re-



movable laterally through one of the slots but being normally interlocked with the spring and thereby held against such removal.

1,352,459. ANNEALING-FURNACE. FREDERIC S. KOCHENDORFER, Chicago, and BRUNO E. BALDUF, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 10, 1918. Serial No. 253,386. 7 Claims. (Cl. 266—4.)



1. In an annealing furnace, a tube through which the material to be annealed is passed, a water seal into which one end of said tube opens, the other end of said tube opening into the air, means for sealing the greater portion of the tubular area from the outside air, means for raising the material to an annealing temperature in one portion of the sealed area, and means for cooling said material below the temperature of oxidization in another portion of said sealed area.

1,352,460. PISTON. FRANK KONYVKA, Cleveland, Ohio. Filed Apr. 12, 1919. Serial No. 289,632. 2 Claims. (Cl. 74—108.)

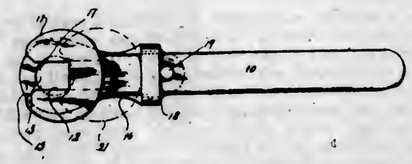
1. A hollow piston having a central socket adapted to receive a ball at the end of a connecting rod, and a retaining nut secured in the end of the piston, said piston having spaced supporting ribs between the socket and the

wall of the piston and holes from said spaces into the socket, and the nut having openings connecting said



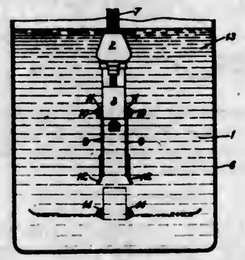
spaces and the space in the crank case, whereby oil may be splashed through the openings into said spaces.

1,352,461. WRENCH. JOHN E. LENHOLT, Guilford, Conn., assignor of one-half to Charles R. Tainter, Guilford, Conn. Filed Oct. 22, 1919. Serial No. 332,484. 4 Claims. (Cl. 81—53.)



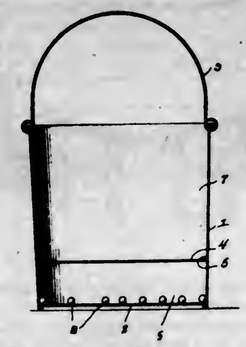
4. A wrench having a head provided with a recess for engagement with a bolt head or nut; a plate connected with said wrench with an opening therein for constant engagement with said bolt or nut; and means for preventing the disengagement of said plate from said wrench.

1,352,462. CIRCUIT-INTERRUPTER. WALTER O. LUM, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 27, 1916. Serial No. 100,371. 11 Claims. (Cl. 74—69.)



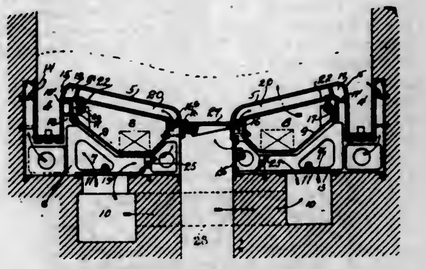
3. The combination with a movable member for actuation in a fluid, of means, on said member only, opposing the movement thereof by gradually increasing amounts in one direction and by gradually decreasing amounts in another direction.

1,352,463. TOY BUCKET. EDWARD MARSH, Washington, D. C. Filed Aug. 16, 1919. Serial No. 317,987. 1 Claim. (Cl. 46—46.)



A toy bucket comprising a tapering body portion, a false bottom forced into the body and secured at a predetermined spaced point from the bottom of the body, and balls arranged in the space under the false bottom.

1,352,464. MULTIPLE-RETORT UNDERFEED STOKER. CHARLES F. MILLER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 19, 1916. Serial No. 120,977. 6 Claims. (Cl. 110—44.)



1. In an underfeed stoker two horizontal retorts, a dump grate located between the retorts, a separate set of grate bars located between each retort and the dump grate, air supply means for each retort and coöperating set of grate bars, each means including a damper to control the flow of air both to the retort and the grate bars and a second damper to control the air flow to the grate bars, one of said means having a passage-way adapted to afford communication to the space beneath the dump grate, and a damper for the passage-way.

3. In an underfeed stoker, a retort, a dump grate mechanism extending substantially parallel to the retort, a set of parallel grate bars extending transversely of the retort and between the retort and said mechanism, an air box on which the fuel discharge ends of the grate bars are mounted, and single piece pedestals extending transversely of the retort and on which said retort, said air box and said grate bars are mounted.

1,352,465. MULTIPLE-FEED HORIZONTAL UNDERFEED STOKER. CHARLES F. MILLER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 19, 1916. Serial No. 120,978. 18 Claims. (Cl. 110—44.)

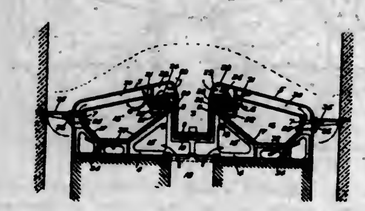
1. In an underfeed stoker, grate bars, a horizontal retort, pedestals on which the retort is detachably mounted, a rocking bar supported by the pedestals for reciprocating

some of said grate bars, and means supported by the pedestals for supporting the grate bars independently of the rocking bar and the retort to permit removal of the retort without disturbing the grate bars.



8. An underfeed stoker, comprising at least two horizontal retorts extending from the front to the rear of the stoker, a dump grate located between the retorts, a separate set of grate bars between each retort and the dump grate, pedestals on which each retort is mounted, supporting and spacing members secured to the pedestals on which the grate bars of each set are mounted, partition plates mounted on the grate-bar-supporting members, and forming an air chamber, and a fuel sifting receiving chamber below each set of grate bars, and means for delivering air under pressure to each chamber.

1,352,466. UNDERFEED STOKER AND DRAFT-CONTROLLING MECHANISM THEREOF. CHARLES F. MILLER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 19, 1916. Serial No. 120,979. 15 Claims. (Cl. 110—44.)

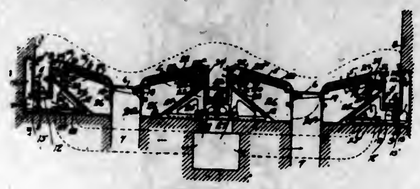


3. An underfeed stoker comprising a fuel feeding retort, grate bars receiving fuel therefrom, an air chamber beneath the bars adapted to discharge air between the bars into the fuel thereon, each of the said bars being provided with a pair of independent air passages, one of which discharges air into the said air chamber and two air boxes for supporting the grate bars, one of which is adapted to deliver air to one passage of each bar and the other of which is adapted to deliver air to the other passage of the bar.

6. A grate bar having twyer openings formed in one end thereof, a passage formed therein and communicating with the opening and having an inlet port communicating therewith, a second passage formed in the grate bar, a delivery port located in the lower face of the bar, and intermediate its ends, and communicating with the second passage, and an inlet port located in the opposite end of the bar from the twyer openings and communicating with the second passage.

14. An underfeed stoker comprising a pedestal construction having supporting elements for two groups of grate bars and an intermediate retort, a removable retort carried by said retort supporting elements, and a group of removable grate bars supported by said grate bar supporting elements at each side of the retort.

1,352,467. MULTIPLE-SECTION HORIZONTAL UNDERFEED STOKER. CHARLES F. MILLER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 19, 1916. Serial No. 120,980. 12 Claims. (Cl. 110—47.)

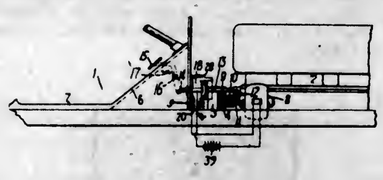


1. A multiple-section underfeed stoker comprising two lateral retorts each extending from the front to the rear of the stoker, and each located adjacent to a side wall of the furnace, a central retort located between the lateral retorts, a dump grate between each lateral retort and the central retort, a set of grate bars between each retort and the adjacent dump grate, and means for delivering air under pressure to each grate bar of each set.

3. A grate bar for use in a retort stoker with one end adjacent a retort, having a passage formed therein and extending from an inlet port adjacent the retort end thereof along the lower face to the other end thereof and back along the upper face to the retort end and also having twyer openings and a delivery port formed in the retort end of the bar and communicating with the passage, the said delivery port being adapted to discharge into the space beneath the bar.

4. A multiple retort stoker, comprising a central retort and two side retorts, an ash discharge mechanism between each side retort and the central retort, a set of grate bars between each retort and each adjacent ash discharge mechanism, a central retort support, comprising similar and interchangeable pedestal members secured together, and lateral retort supports comprising pedestal members similar to the pedestal members first named and interchangeable therewith, and laterial retort supporting members secured thereto.

1,352,468. STARTING SYSTEM FOR AUTOMOBILES. CHESTER B. MILLS, East McKeesport, and CHARLES E. WILSON, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 29, 1913. Serial No. 781,763. 11 Claims. (Cl. 290—38.)

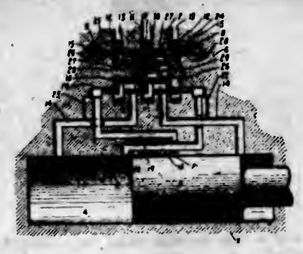


11. The method of starting an engine, comprising accelerating a motor, decelerating the same, engaging the same with the engine, accelerating the motor, and disengaging the motor from the engine.

1,352,469. VALVE. GUSTAVE M. NELL, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Nov. 12, 1919. Serial No. 337,559. 12 Claims. (Cl. 121—28.)

1. The combination with a cylinder member and a movable piston therein, of a valve casing having spaced pressure chambers, a valve in the casing controlling the distribution of motive fluid to and its exhaust from the

cylinder member, said valve having opposite pressure surfaces in the different pressure chambers respectively, means controlled by the piston for admitting fluid under



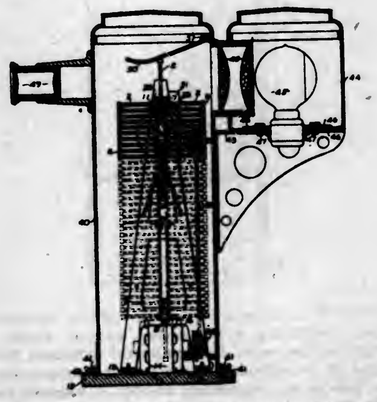
pressure to the chambers and against the pressure surfaces of the valve, and means controlled by the valve for admitting fluid under pressure to the chambers and against said same pressure surfaces of the valve.

1,352,470. RESILIENT RING OR ANNULUS AND METHOD OF MAKING THE SAME. JOHN FULLERTON PALMER, St. Joseph, Mich. Filed Mar. 20, 1918. Serial No. 223,557. 5 Claims. (Cl. 154—2.)



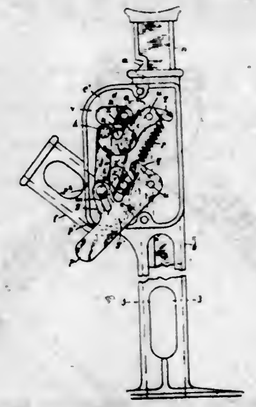
1. An expansible annulus made of thin layers of vulcanized rubber built up around a circular axis, the individual layers having smooth interior and exterior surfaces and being united intimately to form a practically unitary structure.

1,352,471. AUTOMATIC PROJECTOR. WILLIAM L. PATTERSON, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 22, 1917. Serial No. 156,553. 8 Claims. (Cl. 88—28.)



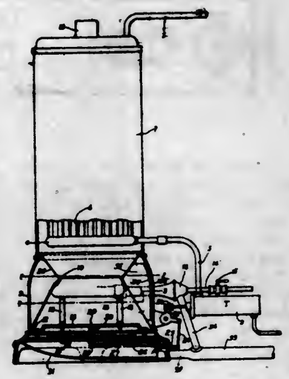
1. A projection apparatus embodying one composite unit comprising a supporting frame, a chain of object carriers movable on the frame, and mechanism on the frame for advancing the carriers one at a time into position for projection, and a second composite unit adapted to be associated with and dissociated from the first unit, said second unit comprising an illuminating system and a projection system adapted respectively when the two units are operatively associated to illuminate the object carrier that is in position to be projected and to project an image of the object.

1,352,472. LIFTING-JACK WITH ROTATABLE CAMS. ADOLPH PETELER, Freeport, N. Y. Filed Aug. 22, 1919. Serial No. 319,088. 5 Claims. (Cl. 254—111.)



1. A lifting jack having a lifting-pawl and a holding-pawl with a stud upon one side of each pawl, a rotatable cam pivoted adjacent to each pawl with an eccentric edge adapted, when turned upon its pivot, to draw the pawl out of the rack, and an extension-finger integral with one of the cams for moving the cams and locking them in an operative or inoperative position.

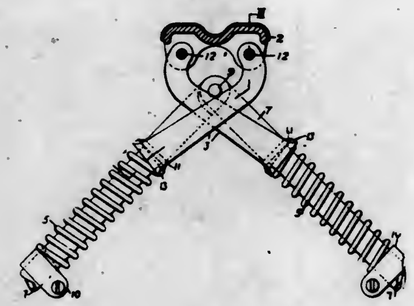
1,352,473. GAS-HEATER. JOSEPH W. PIATT, New York, N. Y. Filed Nov. 30, 1917. Serial No. 204,710. 4 Claims. (Cl. 158—99.)



2. In a gas heater, the combination of a combustion chamber; a burner at the base of said chamber; a secondary air supply to the burner consisting of a chamber the wall of which extends around and diverges downward from the top of the burner adjacent the burner ports and spaced from the wall of the burner to consti-

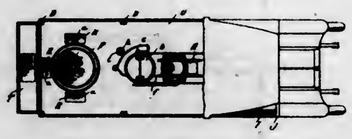
tute an outlet of said chamber adjacent the burner ports; a plate supported at the lower end of the air chamber to have adjustment in a vertical direction with the lateral edges spaced from the walls of the chamber; means to normally urge said plate downward; and means to adjust the plate upward against said latter means, substantially as and for the purpose specified.

1,352,474. TROLLEY. THOMAS S. PUKERUD, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 10, 1916. Serial No. 71,184. 6 Claims. (Cl. 191—55.)



1. The combination with a pantograph frame and a current-collecting member, of a plurality of crossed link members for mounting the current-collecting member upon said frame.

1,352,475. PORTABLE BEVERAGE-DISPENSING APPARATUS. DUBBIN RICHARDSON and CHARLES N. JACOBY, Rochester, N. Y., assignors to Richardson Corporation, Rochester, N. Y., a Corporation of New York. Filed Aug. 28, 1919. Serial No. 320,449. 4 Claims. (Cl. 225—21.)



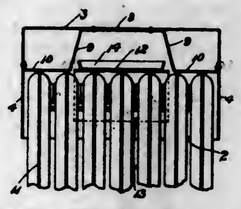
1. In a beverage dispensing apparatus, the combination with a container, of a discharge faucet on the container, a liquid chamber within the container and having an opening in the bottom, carbonating mechanism, a conducting pipe leading from said opening in the bottom of said chamber through the bottom of the container to the carbonating mechanism, and a conducting pipe leading from the carbonating mechanism through the bottom of the container and through said container to the discharge faucet.

1,352,476. COMBINATION VALVE-GRINDER AND BREAST-DRILL. ISADORE ROSENBERG, Port Chester, N. Y. Filed June 23, 1919. Serial No. 306,129. 12 Claims. (Cl. 29—26.)

7. A device of the character described comprising a rotary shaft, a pair of oppositely extending spindles, a drill chuck carried by one of said spindles, a valve grinding implement carried by the other of said spindles, intermeshing gears on said shaft and said first named spindle, and a cam on said shaft for oscillating the other of said spindles.

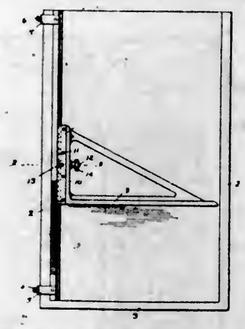


1,352,477. HUMIDIFIER. HART SACKETT, Grand Rapids, Mich. Filed July 16, 1919. Serial No. 311,358. 2 Claims. (Cl. 237—79.)



1. In combination, a hood having spaced front and back sides and vertical ends, an integral connecting top joining the front, back and ends, said front side having an opening therein with metal pressed from the hood over said opening in a downward and outward incline, a bar attached to the upper side of the hood at its middle portion and formed with downwardly bent sections for a distance and then terminating in horisontal sections extending to the ends of the hood, and means connecting the bar to the hood at its ends and at its middle portion, substantially as and for the purposes described.

1,352,478. GALLEY-GAGE. ADOLPH W. SCHILLA, Duluth, Minn. Filed Feb. 10, 1920. Serial No. 357,534. 3 Claims. (Cl. 276—43.)



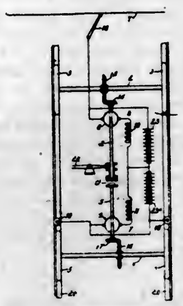
3. The combination with a galley of the character described, comprising a supporting member having pica graduations thereupon and means for attaching same to the side of the galley, of a slot formed longitudinally the upper face of the supporting member, a gage the base of which slidably contacts the face of said member toward the inside of the galley, a plate rigidly fixed to the upper face of the said base and engageable within the slot in the supporting member whereby the gage is held in slidable engagement with said member, and a screw threaded goose-necked thumb bolt carried by the base of the gage and vertically removably engaged within the slot in the supporting member, substantially as and for the purpose described.

1,352,479. CURTAIN-ROD SUPPORT. ALBERT SCHMIDT, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Nov. 25, 1918. Serial No. 263,982. 5 Claims. (Cl. 296—139.)



1. A door curtain fixture, having in combination, a socket member which can be secured to the door and which has a relatively long recess formed on an arc, and a curtain rod whose lower end is formed on the same arc to turn in and be capable of being held in said recess of the socket member without other fastening means.

1,352,480. CONTROL SYSTEM. THEODORE H. SCHOEPF, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 8, 1916. Serial No. 96,139. 6 Claims. (Cl. 172—291.)



1. In a vehicle having a front and a rear driving axle and a pair of wheels on each axle, the combination with an external source of energy and an auxiliary source of energy disposed on said vehicle, of means for severally and jointly operating said driving axles by said external source of energy and for jointly operating said driving axles by said auxiliary source of energy.

1,352,481. HEATER. JAMES MCCOBB SELDEN, Pittsburgh, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 12, 1918. Serial No. 216,807. 6 Claims. (Cl. 263—19.)



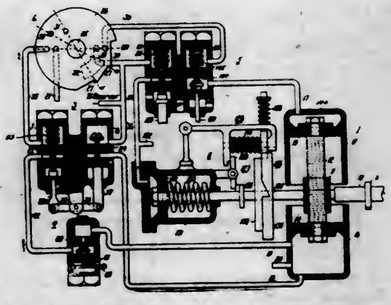
1. In apparatus of the character set forth, the combination with a casing, of means for introducing an oxygen containing gas to the casing, outlet means for conducting the gas from said casing, means forming a tortuous passageway between the inlet and outlet, and means for projecting a flame into the casing to heat the gas passing therethrough between the introducing and outlet means to reduce its oxygen content.

1,352,482. SEED-DRILL. FRANK SHERWIN, Brookings, S. D. Filed Oct. 2, 1919. Serial No. 327,859. 6 Claims. (Cl. 111—54.)



2. In a seed drill, a frame comprising sections connected at their forward portions in a manner to permit of lateral swinging movement of their rear portions toward and from each other, means yieldably acting upon the sections to move their rear portions apart, means whereby the rear portions of the sections may be moved toward each other, a seeding means mounted upon each section, and means for limiting the movement of the rear portions of the sections away from each other.

1,352,483. CONTROL APPARATUS. WALTER H. SMITH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 19, 1917. Serial No. 181,523. 20 Claims. (Cl. 172—179.)



1. A control system comprising a multiposition circuit-governing member, fluid-pressure operated means for actuating said member in the one or the other direction,

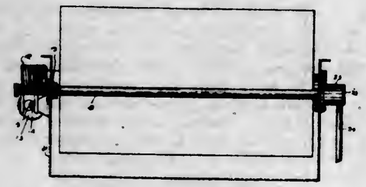
valve means normally biased to a closed position but operative during actuation of said member to permit the release of fluid pressure from one side of said actuating means, and means dependent upon predetermined conditions for automatically restoring the normal biasing effect in said valve means.

1,352,484. WIRE-TIGHTENING IMPLEMENT. MAX STEINBACH, New York, N. Y. Filed Apr. 30, 1919. Serial No. 293,760. 1 Claim. (Cl. 140—149.)



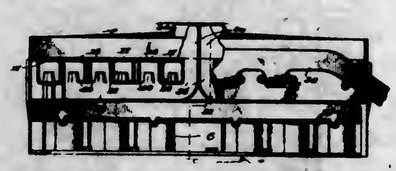
A wire-tightener and twister, comprising a frame having a recess adapted to receive a portion of the object against which the implement bears in the tightening and twisting operation, a bearing member on said frame, a screw-threaded block adjustably fixed to said frame in alinement with said bearing member, a screw-threaded spindle shiftably and rotatably mounted in said bearing member having its threads in engagement with the threads of said block, a head upon said spindle including two stationary gripping jaws, the acting faces of said jaws being arranged at oblique angles to the longitudinal axis of said spindle, pivoted gripping jaws upon said head having cam-shaped faces coöperating with said stationary jaws, said cam-shaped faces being so arranged in relation to their pivots that their grip is increased by the pull on the wire, and guides in front of said jaws through which the wire ends extend.

1,352,485. SHOWER-PIPE FOR PAPER-MAKING MACHINES. ROBERT W. STEVENS, New Haven, Conn. Filed Nov. 10, 1919. Serial No. 336,802. 3 Claims. (Cl. 92—50.)



1. In a shower pipe for paper-making machines, mounted for longitudinal movement and formed with a series of perforations combined with a stationary rod having a series of swabs mounted thereon and over which the shower pipe rides.

1,352,486. HYDROCARBON-MOTOR. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 17, 1917. Serial No. 207,560. 8 Claims. (Cl. 123—55.)



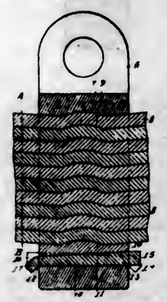
2. A motor cylinder block having the following ports and conduits formed therein: a series of intake and exhaust ports arranged in line, an intake conduit running lengthwise of the block adjacent the valves, branch conduits from said intake conduit to the various intake valves, a branch conduit leading from the top of the block downwardly to the intake conduit, and exhaust conduits leading laterally away from the exhaust ports, the walls of said exhaust conduits projecting into said intake conduit.

1,352,487. HYDROCARBON-MOTOR. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Original application filed Oct. 4, 1916, Serial No. 123,716. Divided and this application filed Jan. 16, 1919. Serial No. 271,361. 4 Claims. (Cl. 184—6.)



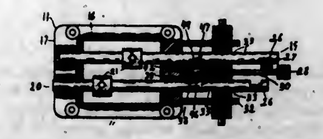
3. In a hydrocarbon motor, in combination, a casing adapted to receive lubricating oil, a rock shaft therein, said rock shaft being hollow and having an exposed upper opening, means in said casing for splashing the oil against the wall thereof and downwardly extending lug on the wall of said casing over said opening to guide certain of the splashed oil into said hollow rock shaft.

1,352,488. WEDGE-LOCK BUCKLE FOR LEAF-SPRINGS. NORMAN WATERHOUSE, Croydon, New South Wales, Australia. Filed Mar. 12, 1920. Serial No. 365,353. 2 Claims. (Cl. 267—53.)



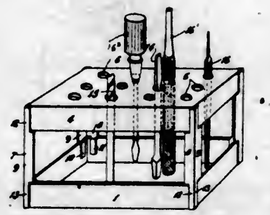
1. In a spring of the character described, in combination, a buckle provided with a curved recess upon one of its inner surfaces, a plurality of leaves having nestable and medial curved portions, a locking plate having a raised locking portion on the upper face for engagement with the undersurface of the curved portion of the adjacent leaf and also provided on its undersurface with oppositely inclined surfaces, and tapered wedges driven from opposite directions between the inclined surfaces of the locking plate and the surface of the buckle opposite to that having the recess for clamping the locking plate against the adjacent leaf, the leaves together and the curved portion of the outermost leaf in the recess in the buckle to prevent longitudinal displacement of the parts.

1,352,489. TRANSMISSION-LOCK. HUGH WHITT, Louisville, Ky. Filed Mar. 15, 1920. Serial No. 365,978. 1 Claim. (Cl. 70—126.)



In combination with the transmission gear of an automobile, a pair of longitudinally movable gear shift rods having notches in their confronting faces, a partition between said rods having a slot therein intermediate its ends, a hand lever universally pivoted adjacent said partition and rods and having a portion movable through the slot to selectively engage one of the notches, a lock casing extending between said rods adjacent said partition and having oppositely disposed guide notches receiving said rods, said casing further having a perpendicular bore intersecting one of the guide notches, the rod passing through the intersected guide notch being provided with a notch adapted to register with the bore, a bolt fitting revolubly in the bore and being provided on one side with a notch adapted to register with the guide notch whereby to allow free movement of the rod, the side of the bolt opposite the notch therein being cylindrical to engage the notch in the rod, and a lock having operative connection with the bolt to rotate the same.

1,352,490. COMBINED SHIPPING-CASE AND DISPLAY-RACK. GEORGE H. WILKINS, Greenfield, Mass. Filed Dec. 29, 1919. Serial No. 348,154. 2 Claims. (Cl. 211—14.)



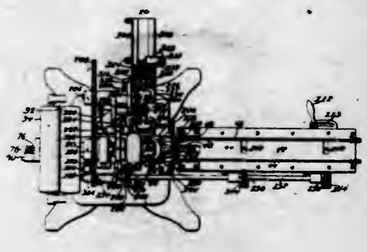
2. A combined shipping and display receptacle adapted to receive articles for shipping as mechanics' tools, and including a cover and base-piece, the cover having a plurality of openings in its upper portion to receive the tools, post-like members for supporting the cover in spaced relation above the base-piece when used as a display receptacle, said members comprising angular shaped pieces having offset tongue members at their ends and formed with shouldered portions to engage the upper and lower edges of the base-piece and cover respectively and portions oppositely located to the tongue members and of a length equal to said tongue engage the inner and outer surfaces of the base-piece and cover respectively and of a length equal to the height of the base-piece and cover.

1,352,491. LOCKING DEVICE FOR STEERING-WHEELS. WILLIAM W. WINCHESTER, Boston, Mass. Filed Feb. 8, 1919. Serial No. 275,858. 1 Claim. (Cl. 70—129.)



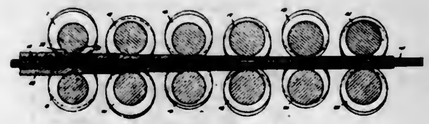
The combination with a steering post and wheel rotatably mounted thereon, of means carried by the wheel for releasably fixing it to the post, said means comprising a socketed bolt slidable to assume either a projected or a retracted position and provided with an extension outside the socket within which it is contained by which it may be manually controlled, a releasable socketed latch movable to assume either a projected or retracted position with relation to the bolt and when in projected position having interlocking engagement with the bolt for holding it in either its projected or retracted position, and a key-controlled lock arranged adjacent said latch, said lock having a turning plug movable by the key to the lock and provided with a member in operative engagement with said latch for moving the same into and out of interlocking engagement with said bolt as the plug is turned by the key of the lock, said lock being otherwise provided with means for holding the plug from turning when the member carried by it has moved the latch into locking engagement with said bolt, whereby the latch may be held by said member in such interlocking engagement and whereby, also, the key may be inserted into and withdrawn from the lock only when the latch is occupying its interlocking engagement with the bolt.

1,352,492. STOCK-CUTTING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 22, 1917. Serial No. 143,738. 41 Claims. (Cl. 164—48.)



1. A machine having, in combination, means for delivering tapering articles successively in similar positions, and means for stacking the articles so delivered with their thicker and thinner extremities alternating and their analogous faces directed the same way.

1,352,493. ROLLING-MILL. LUDWIG WOLFFGRAM, Erie, Pa. Filed Jan. 23, 1919. Serial No. 272,642. 3 Claims. (Cl. 80—11.)



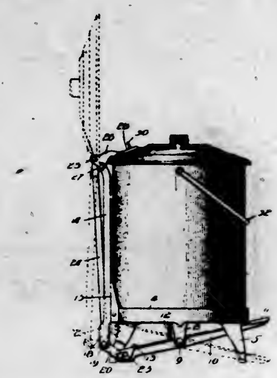
3. A rolling mill comprising a series of pairs of grooved rolls spaced apart and arranged in succession, the rolls of each pair being parallel and alternate pairs of rolls being disposed at acute angles to the intermediate pairs of rolls; the passes of the rolls of successive pairs being in arcs reduced in succession and having triangular extensions reduced in succession, a succeeding pair of rolls having its pass in arcs the same as the preceding set of rolls and with reduced triangular extensions, and a final pair of rolls having a circular pass of the same diameter as the pass of the preceding pair of rolls.

1,352,494. EXPANSION-SHIELD. LOTHAR R. ZIFFERER, Lancaster, Pa. Filed Apr. 2, 1919. Serial No. 286,848. 2 Claims. (Cl. 85—2.4.)



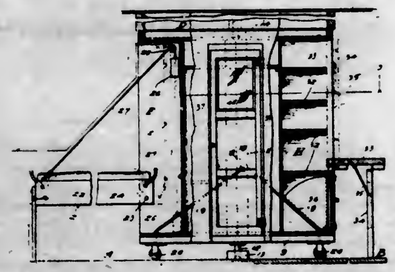
2. An expansion shield of the indirect type having an annular rib adjacent its inner end, a cap fitted over the rib and crimped thereupon, the cap being frangible in nature to afford a temporary abutment for the bolt, substantially as described.

1,352,495. RECEPTACLE. LOTHAR R. ZIFFERER, Lancaster, Pa. Filed Apr. 16, 1918, Serial No. 228,823. Renewed Jan. 26, 1920. Serial No. 354,250. 5 Claims. (Cl. 248—11.5.)



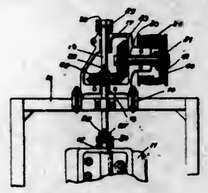
3. A frame providing a mounting for a receptacle and carrying means for raising the receptacle cover including a treadle, and interconnecting elements adapted for simultaneous operation when the treadle is actuated, one of said elements having connection with the receptacle cover and adapted to raise the same when the treadle is actuated, the several elements being normally in such relation as to prevent their transmitting motion except from the direction of the treadle, substantially as described.

1,352,496. REVOLVING HOUSEKEEPING-CABINET. JOEL F. BAYMILLER, Buhl, Idaho. Filed Apr. 19, 1920. Serial No. 375,089. 3 Claims. (Cl. 45—37.)



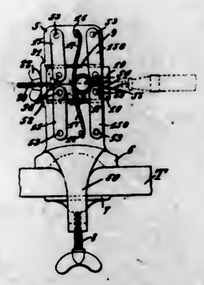
1. A rotatable cabinet comprising a base frame and an upper frame, a central post to which the base frame and upper frame are attached, said post being rotatably mounted, connecting members between the base frame and the upper frame, wheels supporting the outer corners of the frame, said frame being many-sided in cross section and divided by vertical partitions to form a plurality of compartments and opening upon different portions of the cabinet, the central portion of the cabinet defined by the partitions of all but one of the frame constituting a central compartment, this central compartment opening upon one face of the cabinet, a door closing the opening to the central compartment, and members hingedly mounted upon the walls of the other compartments and closing the same and constituting, when closed, the exterior wall of the cabinet.

1,352,497. POWER ATTACHMENT FOR AUTOMOBILES. ALBERT C. BEANBLOSSOM, Des Moines, Iowa. Filed Jan. 21, 1919. Serial No. 272,261. 4 Claims. (Cl. 180—53.)



1. A power attachment for automobiles comprising a gear casing, brackets thereon adapted to fit the frame of an automobile, means for locking said brackets to an automobile frame, a gear casing cover member, bearings formed in said gear casing cover member, a shaft supported in said bearings and designed to be in alinement with the engine shaft, additional bearings in said gear casing cover member, a second shaft mounted in said additional bearings and arranged at right-angles to said first shaft, said first shaft being mounted for sliding movement, a gear non-rotatably mounted on said first shaft and adapted to permit the sliding movement of the first shaft, a gear on the second shaft, means for connecting said first shaft with an engine, said means including a member designed to be mounted on the engine shaft and having an angular hole, said first shaft having an angular end adapted to enter said hole, and a locking device for holding the first shaft against forward movement when it is operatively connected with the engine shaft.

1,352,498. PEN AND FEED PUSHER. BRUCE B. BRADFORD, Hot Springs, Mont. Filed Sept. 3, 1919. Serial No. 321,367. 5 Claims. (Cl. 29—84.)



1. In a device of the class described, a support; a pair of coöperating jaws; and links connecting the jaws with the support for longitudinal and transverse movement.

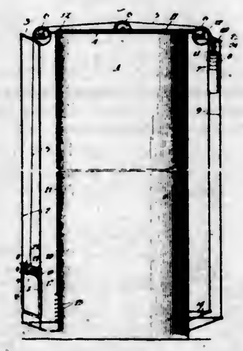
1,352,499. ELECTRICAL CONNECTOR. VICTOR HENRI BROC, Neuilly-sur-Seine, France. Filed July 7, 1919. Serial No. 309,135. 1 Claim. (Cl. 173—328.)

A metallic body or housing constituting a plug bored



with a side opening for the reception of a spherical head, said body having a hole bored through it, the axis of said hole being at right angles to the axis of said opening and a roughened rod passing through the hole and resiliently locked in said hole, substantially as described and for the purpose specified.

1,352,500. ELEVATOR FOR SILOS. STEPHEN O. BUMGARNER, Given, Ohio. Filed Aug. 26, 1918. Serial No. 251,566. 1 Claim. (Cl. 187—6.)



In a device of the class described, the combination with a silo including a cylindrical body, of an elevator attachment therefor including a beam extending diametrically across and supported by the body adjacent the upper end thereof and having its terminals extended beyond the outer surface of the body, sheaves carried by the projecting terminals of the beam, depending guide rods carried by the projecting terminals of the beam and arranged on opposite sides of the sheaves, a carriage slidably mounted on the guide rods carried by one terminal of the beam, a counter-weight mounted on the guide rods carried by the opposite terminal of the beam, and a suspending cable passing over said sheaves and secured to the counterweight and carriage, as and for the purpose specified.

1,352,501. HEEL-PRESS. CHARLES H. CAREY, Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 2, 1917. Serial No. 140,106. 7 Claims. (Cl. 144—289.)

1. In a heel press, the combination of a rotary carrier, a plurality of heel supporting shelves upon the carrier, a loosely mounted press plate coöperating with each shelf to form a press couple, and means loosely engaging the

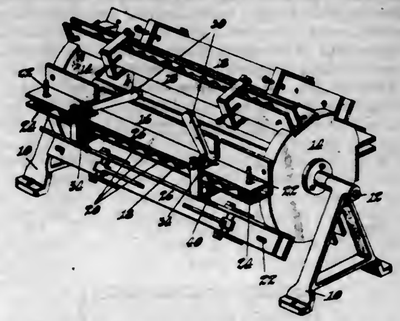


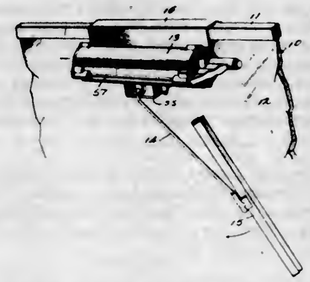
plate for forcing it into intimate engagement with the heels upon the shelf.

1,352,502. METHOD OF MAKING LUBRICATING-OILS. LEWIS S. EASTLAKE, Chicago, Ill. Filed Dec. 7, 1917. Serial No. 205,948. 8 Claims. (Cl. 87—9.)

1. The method of making lubricating oils which consists in mixing a lubricating element substantially free of solvents with the spent residue of used lubricating oil, substantially as described.

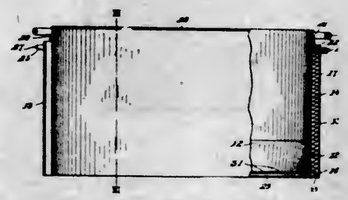
1,352,503. [WITHDRAWN.]

1,352,504. WINDSHIELD-CLEANER. WILLIAM M. FOLBERTH, Cleveland, Ohio. Filed Oct. 4, 1919. Serial No. 328,560. 10 Claims. (Cl. 15—59.)



1. In an apparatus for cleaning wind shields, a reciprocatory cylinder, a cleaning element carried by said cylinder, and means operated by the reciprocation of said cylinder for oscillating said cleaning element.

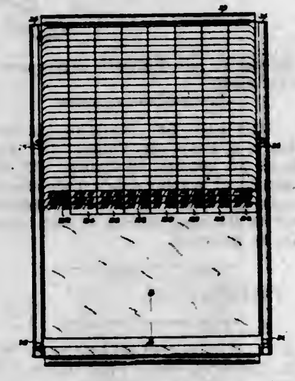
1,352,505. BOILER. MARTIN FOLKUSH, Milwaukee, Wis. Filed Apr. 10, 1920. Serial No. 372,820. 4 Claims. (Cl. 68—30.)



1. A device of the class described comprising a boiler, an upright casing formed at each end thereof, a pan

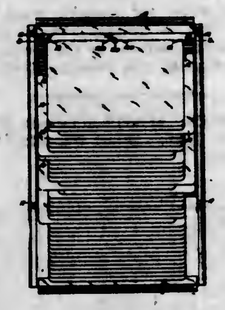
freely positioned within the boiler, a compression spring within each casing having one end thereof secured to the bottom of the casing, a roller bearing journaled adjacent the upper end of the casing and connecting cords between the other ends of the springs and the opposite ends of the pan and passing over said bearings whereby said springs are adapted for, aptomatically elevating the pan to a point adjacent the top of the boiler.

1,352,506. FILING AND INDEXING EQUIPMENT. EDWARD E. FOWLER, Winthrop, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 16, 1918. Serial No. 262,761. 13 Claims. (Cl. 129—16.)



1. In a device of the class described, the combination of a plurality of sheets arranged in overlapping groups, the sheets of each group being each provided with an identification-receiving portion, and all of the identification-receiving portions of the sheets being presented to view at one time, a plurality of sheet-holders, one for each group of sheets, and a mounting for said sheet-holders.

1,352,507. FILING AND INDEXING EQUIPMENT. EDWARD E. FOWLER, Winthrop, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 16, 1918. Serial No. 262,762. 17 Claims. (Cl. 129—16.)

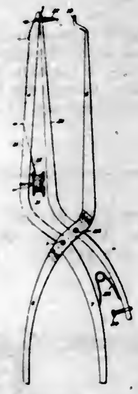


1. In a device of the class described, the combination of a sheet, and a sheet-holder comprising a length of wire provided with helically-coiled terminal portions between which said sheet is received.

10. In a device of the class described, the combination of a sheet-holder comprising a length of wire provided with a helically-coiled portion, and a sheet supported thereby and provided with a perforation in which said helically-coiled portion is received.

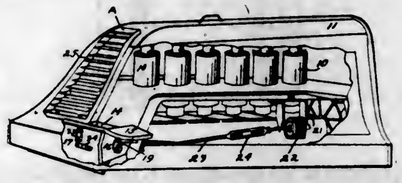
1,352,508. SEWING-PLIERS. JOSEPH FTACEK and STEVE FTACEK, Streator, Ill. Filed May 12, 1919. Serial No. 296,447. 8 Claims. (Cl. 112—169.)

1. Sewing pliers comprising outer needle carrying and work supporting jaws and an intermediate presser foot jaw, yieldable means to normally move the needle carrying and presser foot jaws toward each other, manually operable means to separate the needle carrying and presser foot jaws, and manually operable means to move the



needle carrying and work supporting jaws toward and away from each other.

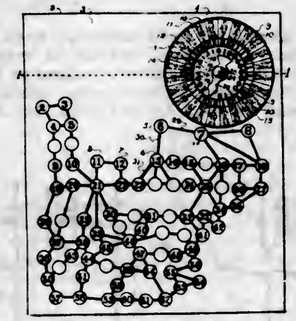
1,352,509. AIR-CONTROL DEVICE FOR ENGINES. LESLIE W. GRISWOLD, Des Moines, Iowa. Filed Jan. 24, 1920. Serial No. 353,845. 6 Claims. (Cl. 123—171.)



6. In a device of the class described, the combination of a hood, having an engine mounted for tilting movement, said hood having in its forward end upper and lower openings, a frame fitted into said upper opening, shutter members mounted in said frame, a shutter device mounted in the lower opening, a common controlling bar for controlling all of the shutter members on the upper opening, adjustable means for connecting the shutter devices in the upper and lower openings, a bracket stand along the interior of said hood on one side thereof supported on said hood, a thermostat supported on said bracket near the rear end of said hood, means for operatively connecting said thermostat with the shutter device in the lower opening, said shutter device and thermostat and bracket being wholly mounted on said hood and movable therewith.

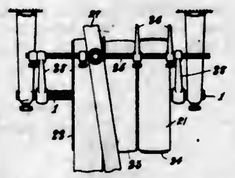
1,352,510. GAME-BOARD. EDWARD TINKHAM GIBSON, Brooklyn, N. Y. Filed Feb. 26, 1920. Serial No. 361,517. 2 Claims. (Cl. 46—63.)

2. A game-board comprising a base having a station-bearing section and a dial-bearing section, a dial-face printed on the upper surface of the last mentioned section, a pivot member projecting upwardly from the center of said dial-face, and a pointer member loosely mounted on said pivot member and adapted to be manually set whirling on a plane parallel with that of the upper surface of said dial-face; the said station bearing section having on its upper surface a plurality of printed station-denoting markings having a distinctive station-number in connection with each, and a plurality of printed lines constituting a system of travel-lines connecting the said sta-



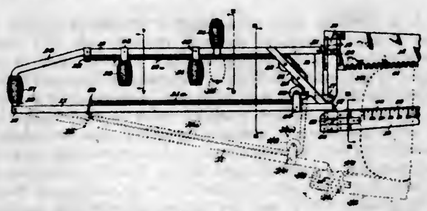
tion-denoting markings one to another, the said dial-face having a concentric ring section subdivided by printed lines into a plurality of segmental sections each of the latter having on it printed numbers corresponding with at least two of the station-numbers on the said station-bearing section of the base of the game-board, and said dial-face also having a concentric ring section subdivided by printed lines into a plurality of segmental sections each of the latter having on it a printed numeral.

1,352,511. BELT-DRIVING. KARL ERIK ALBERT GRANSTEDT, Stockholm, Sweden, assignor to Galco Maskinfabriks Aktiebolag, Stockholm, Sweden, a Corporation. Filed Mar. 1, 1920. Serial No. 362,638. 1 Claim. (Cl. 64—4.)



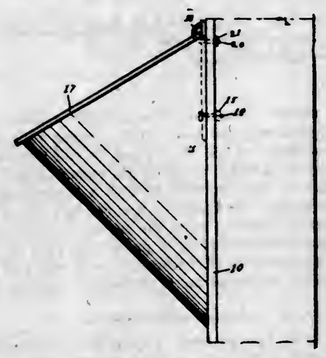
The combination of a fixed shaft, a single pulley loose on said shaft, a double pulley also loose in said shaft and arranged next the single pulley, a belt shiftable to enter the single pulley on the adjacent part of the double pulley, radial arms secured to said shaft, a slidable rod mounted in said arms and having projections to engage opposite sides of said shiftable belt, and a lever to move said rod and thereby shift said belt.

1,352,512. SAW. ROBERT W. GRAVES, Elizabeth, N. J., and SAMUEL MIDDLETON HOLT, Washington, D. C.; said Holt assignor to said Graves. Filed Apr. 25, 1919. Serial No. 292,649. 12 Claims. (Cl. 145—31.)



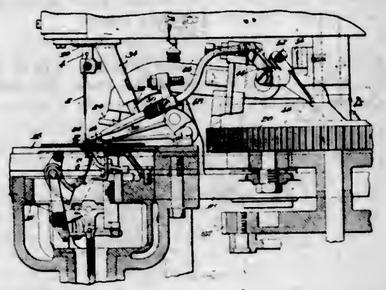
1. A saw comprising a handle frame of substantially rectangular form comprising two handle bars, pivotal connections between said handle bars at one end of the frame, an arm and a post in longitudinal alinement with each other carried by the separate handle bars at the opposite end of the frame, a presser-bar guide and a saw blade adjustably mounted upon said arm and post projecting in opposite directions from said handle bars, rollers carried by each bar, a coil spring having one end thereof secured to one of said handle bars with the other end of the spring adjustably secured to the other handle bar and passing over said rollers whereby the resilient connection between the portions of the handle is adapted for adjustment at will, and the hand grips carried by one of said handle portions.

1,352,513. STOCK-FEEDING DEVICE. HERBERT E. HAMILTON and CLAYTON R. HAMILTON, Yale, Iowa. Filed Mar. 16, 1920. Serial No. 366,410. 1 Claim. (Cl. 119—32.)



A stock feeding device comprising a channel-shapped member having its bottom inclined from its lower rearward end upwardly and forwardly, and having its rear edge vertical, a cross member connecting the upper rear walls of said channel-shaped member, having its rear surface flush with the rear edges of said channel-shaped member, means for securing said channel-shaped member to a support, said cross member having a portion projecting upwardly above said channel shaped member, a cover for the upper forward portion of said channel-shaped member, and bolts extended through said cross member having hook portions formed on their forward ends extending through said cover, with their ends adjacent to the forward surface of said cross member.

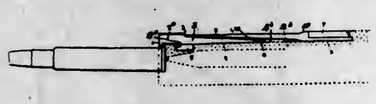
1,352,514. SEWING-MACHINE. GEORGE S. HILL, Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 28, 1916. Serial No. 117,242. 10 Claims. (Cl. 112—252.)



1. A sewing machine having in combination stitch forming mechanism including a reciprocating needle, a support

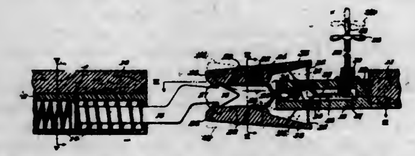
provided with a guideway, thread holding members movable in the guideway toward and away from the needle path, mechanism for simultaneously advancing the members to bring them close to the needle path, and for continuing the advance of one member independently of the other to bring them on opposite sides of the needle path, and for retracting the members to grip the thread and then carry it away from the needle path, and means for severing the thread while the holding members are close to the needle path and prior to their final retraction to holding position.

1,352,515. CARTRIDGE-EXTRACTOR FOR FIREARMS. FREDERICK WILLIAM HULSE, Northfield, near Birmingham, England, assignor of one-half to Armes Automatiques Lewis, Antwerp, Belgium. Filed Mar. 26, 1918. Serial No. 224,764. 2 Claims. (Cl. 42—25.)



1. In a fire-arm, the combination with a breech block having a peripheral slot into which merges a recess and undercut portions which are formed in the breech block, of an extractor having a locating pin engaging said recess and provided at its forward end with a hook-shaped part adapted to engage the flange of a cartridge, the rear end of said extractor resting upon the bottom of said slot, and a leaf-spring member having a projecting part to engage the under cut portions of the breech block, one end of said spring member engaging an intermediate portion of said extractor.

1,352,516. CAR-COUPLING. FRANK KALATA, Springfield, Ill. Filed Jan. 30, 1919. Serial No. 273,971. 1 Claim. (Cl. 213—35.)



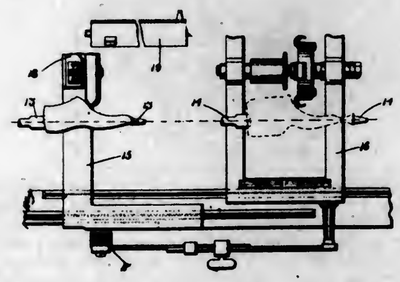
A coupler comprising a tongue, a head having a central bore and forwardly projecting side portions, hooked jaws pivoted to said side portions for engagement with said tongue, a positioning spring for said jaws carried by said head and projecting from the bore thereof, a vertical screw shaft threaded transversely of said head with the inner end extending into the bore, a swivel block at the inner end of the screw shaft, a plurality of roller bearings within the head, and a flexible connection within the bore of the head between the swivel block on the screw shaft and said hooked jaws and passing over said bearings whereby axial movement of said shaft in one direction will release the jaws from the tongue.

1,352,517. GAME APPARATUS. EDWARD M. KING, Elida, Ohio. Filed Feb. 4, 1920. Serial No. 356,155. 4 Claims. (Cl. 46—41.)



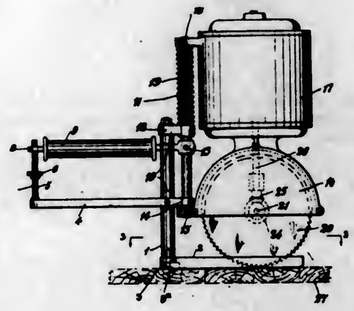
1. In a game apparatus, a game board comprising a circular piece having an outer field and provided with a central pen, and a plurality of radial U-shaped stalls rising upwardly from the piece in the space between the outer annular field and the centrally disposed pen, said space between the outer annular field and the pen being in communication with the field, the open ends of the U-shaped stalls being directly opposite the communications between the outer field and the space between said outer field and the pen.

1,352,518. LAST AND LAST-MAKING. PAUL F. W. C. KRIPPENDORF, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 14, 1916. Serial No. 109,315. 18 Claims. (Cl. 142—15.)



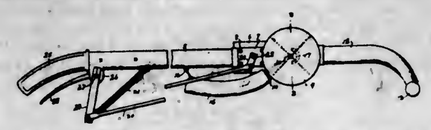
1. A last lathe having work and model rotating means, a rotating cutter and a model wheel, the diameter of said wheel being different from that of said cutter and the axes of rotation of the cutter and wheel being equidistant from those of the work and model, respectively, the machine being thus adapted to cut a last differing from the model by a layer of uniform thickness.

1,352,519. PORTABLE SAW. FREDERICK MAURICE LASERSON, New York, N. Y. Filed Dec. 30, 1918. Serial No. 268,790. 4 Claims. (Cl. 143—43.)



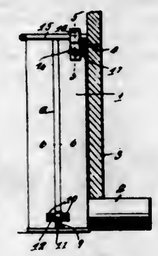
1. A portable saw comprising a standard, a pair of feet pivoted thereto at the base thereof, said feet being adjustable on said pivot in a plane perpendicular to the plane of the said standard, a horizontally disposed transverse bar secured to said standard, and forming a guide to the one side thereof, a second guide secured to the top of said standard, a motor supporting member adapted to move in said guides, a motor secured to said supporting member, a saw mounted in the latter, means for rotating said saw from the said motor, a spring, for maintaining said motor and saw in normally raised position with respect to the said standard and means for bringing the said saw into contact with the work.

1,352,520. VACUUM-CLEANER. FLOYD L. LELAND, Flint, Mich. Filed Sept. 21, 1918. Serial No. 255,129. 5 Claims. (Cl. 15—60.)



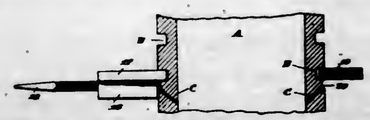
5. In a vacuum cleaner, a pole, a fan housing mounted on one end of the pole, a handle forward upon the opposite end of said pole, a fan rotatably mounted in said housing, a suction nozzle connected to the housing, a dust receiving receptacle, said housing having a discharge nipple opening into the receptacle, a casing mounted upon the pole, a gear train in said casing for rotating the fan, a lever pivotally mounted at one of its ends upon the pole, and extending adjacent said handle to be operated by the hand of the operator engaging said handle, an arm fixed to the lever pivot, means operatively connecting said arm to one element of the gear train, and a spring operative to return the lever to its normal position and impart continuous rotation in one direction to the gear element.

1,352,521. GARBAGE-CAN. ROSA B. LEWELLEN, Hylton, Tex. Filed Oct. 7, 1919. Serial No. 329,013. 2 Claims. (Cl. 220—36.)



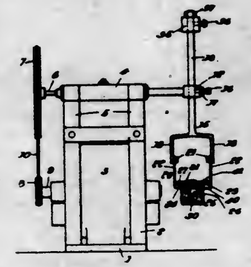
1. A garbage can of the class described comprising a body, said body provided with a substantially dove-tailed channel formed in one side thereof, a door operating rod reciprocatably mounted within said channel and being substantially dove-tailed in cross sections, a lid carried by said body, the upper end of said lifting rod adapted to engage said lid for facilitating the raising of said lid to an open position, a treadle carried by said body projecting under said lifting rod for raising said lifting rod as the outer end of said treadle is depressed, and a buffer adapted to be engaged by said door.

1,352,522. GROOVE-CUTTING TOOL. JAMES ALFRED LEWIS, Hartford City, Ind. Filed July 18, 1919. Serial No. 311,776. 1 Claim. (Cl. 82—4.)



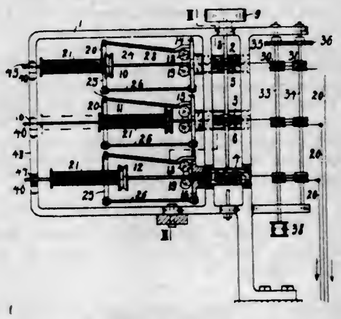
A tool of the character described comprising a body formed in spanner shape and having one end elongated to constitute a lever handle, said body being adapted for engagement within the piston ring receiving groove of a piston, an enlargement formed on one side of said body at its other end and terminating short of the inner wall of the spanner body whereby to be free from engagement with the periphery of a piston upon which the device is engaged, said enlargement being formed with an opening angular in cross section and further formed with a threaded bore leading into the opening, a blade slidable within the angular portion of said bore and adapted to be disposed in engagement with the periphery of a piston, and a screw threaded into the bore and engaging the blade for adjusting the position thereof.

1,352,523. CASTING DEVICE. JOHN F. MCMATH, Oakland, Calif. Filed Jan. 31, 1917. Serial No. 145,723. 7 Claims. (Cl. 22—65.)



2. A casting device comprising a suitably journaled shaft, a carrying element comprising a rod extending diametrically through said shaft, a fork on one end of said rod comprising two arms, a carrier comprising a pair of members pivoted to said fork arms, a connecting member connecting said pivoted members for carrying a mold, said carrier being adapted to swing on its pivots so as to cause the bottom of the mold impression to extend outwardly radially as the shaft is rotated, and a counterweight on said rod for counterbalancing said carrier and the mold carried thereby.

1,352,524. APPARATUS FOR HARD TWISTING OF FINE AND THICK THREADS. HANS PEDERSEN MITTET, Aalesund, Norway. Filed Nov. 1, 1918. Serial No. 260,752. 9 Claims. (Cl. 118—35.)

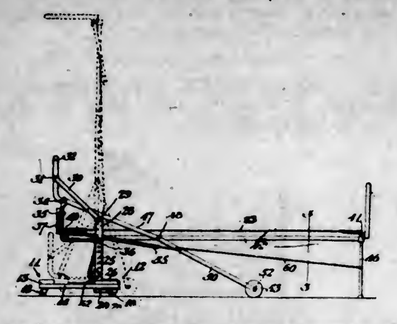


7. In a twisting apparatus, a revoluble twisting spindle, a frame carried by the spindle at one end thereof, guide pulleys carried by the frame adjacent the spindle, a reel spindle within the frame and in alinement with the twisting spindle, and a tubular guide for the thread, said guide being carried by the said frame and extending from the outer end thereof adjacent to the guide pulleys.

1,352,525. FOLDING BED. RESCUE B. PAGE, Los Angeles, Calif. Filed June 30, 1919. Serial No. 308,022. 7 Claims. (Cl. 5—37.)

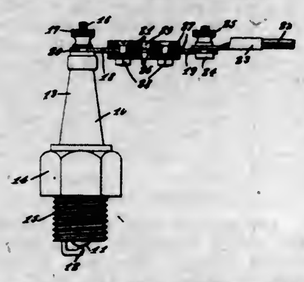
1. A folding bed comprising a primary support, a bed pivotally mounted on the primary support, a secondary supporting member pivotally mounted on the bed in such manner that the secondary supporting member is operated

by movement of the bed to roll on the floor, and elastic means connecting said bed and said secondary member



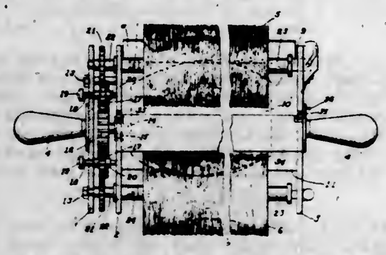
for placing a tension on the secondary member during raising and lowering of the bed to balance the weight of the bed.

1,352,526. SPARK-PLUG INTENSIFIER. RAYMOND S. PATCHEN, Marion, Ind. Filed Oct. 22, 1919. Serial No. 332,435. 2 Claims. (Cl. 175—183.)



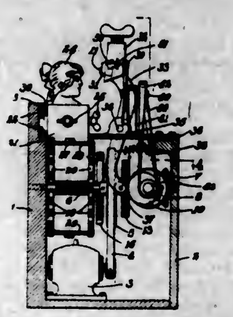
1. A spark plug intensifier comprising flat plates of conducting material having spaced apertures therethrough, one of said plates being adapted for connection with a spark plug and the other of said plates being adapted for connection with a conductor leading to said plug, insulating blocks having alined apertures disposed to register with the inner apertures of the plates, connection extended through said apertures for holding said blocks in clamping relation to the plates and securing said plates in spaced relation at their inner ends, said inner ends being tapered, and the block having apertures therethrough at said tapered ends.

1,352,527. BRUSHING-MACHINE. STEVEN RADIMAK, Newark, N. J. Filed Nov. 13, 1919. Serial No. 337,810. 6 Claims. (Cl. 15—61.)



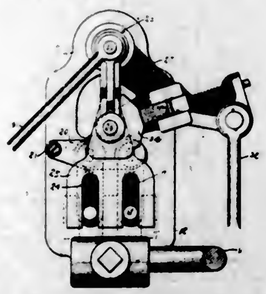
5. In a brushing machine, a series of revoluble brushes, shafts on which said brushes are mounted, means for revolving said brushes independently, means for detachably securing said brushes in said machine, and means for cleaning said brushes during the revolution thereof.

1,352,528. DOLL-EYE-PAINTING MACHINE. STEVEN RADIMAK, New York, N. Y. Filed Mar. 1, 1920. Serial No. 362,238. 3 Claims. (Cl. 101—35.)



1. In a doll painting machine, paint applying means, and means for advancing a doll to said paint applying means, comprising a table, a series of doll carriers resting freely on said table, a pair of endless chains, rods connecting said chains, and lugs on said rods engaging said doll carriers.

1,352,529. WARP STOP-MOTION. JOHN REGAN, New Bedford, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 15, 1920. Serial No. 374,025. 1 Claim. (Cl. 139—54.)

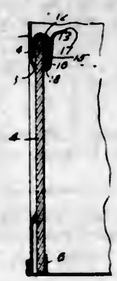


In a warp stop motion, a plurality of drop wires, each with an opening therein having a relatively wide lower portion, and a relatively narrow upper portion, a normally movable indicator bar extending through said openings and effective to engage both sides of said narrow portion of the opening in a fallen drop wire, yielding means to oscillate said indicator bar, and a stationary bar also extending through said opening below said indicator bar and having a width substantially corresponding to the width of the wide lower portion of the opening in said drop wire.

1,352,530. [WITHDRAWN.]

1,352,531. GLASS-RETAINING DEVICE FOR CONTAINERS. JAMES RIZZUTO, New Orleans, La., assignor of one-third to Consumers Biscuit Company, New Orleans, La., a Corporation of Louisiana. Filed May 29, 1920. Serial No. 385,313. 3 Claims. (Cl. 220—82.)

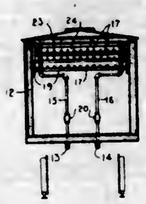
2. The combination with a container having an opening in one of its walls, a bar positioned transversely of the inner surface of the wall having the opening, a glass insert positioned between the bar and the wall having the opening, to cover the opening, an element pivoted on the bar and having a portion overlying one edge of the bar and one edge of the glass insert, a U-shaped clamp carried by the end of the element adapted to straddle the bar and the glass, one arm of the clamp being bent upon itself and the end of the bent portion terminating in a lug to be engaged by the finger for disengaging the clamp, the arm where it is bent having a laterial lug overlying the lower edge of the bar, thereby coöperating with the arch of the clamp to retain the glass insert in position in case the container is inverted.



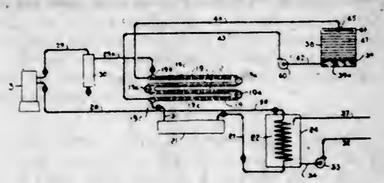
3. The combination with a container having an opening in one of its walls, a bar positioned transversely of the inner surface of the wall which has the opening, a glass insert positioned between the bar and the wall to cover said opening, a strip pivoted on the bar and having a portion overlying one edge of the bar and one edge of the glass insert, a clamp carried by the end of said strip, and being constructed from a single piece of sheet metal bent U form to straddle the bar and the glass, to clamp the glass securely to one face of the bar, one arm of the clamp being bent upon itself and returned upwardly and inwardly and terminating in a lug to be engaged by the finger for disengaging the clamp, the arm where it is bent being formed with a lateral lug overlying the lower edge of the bar, thereby coöperating with the arch of the clamp to return the glass insert in case the container is inverted.

1,352,532. REFRIGERATOR-CAR. HENRY RUSSELL Ross, St. John, New Brunswick, Canada. Filed Dec. 22, 1919. Serial No. 346,759. 3 Claims. (Cl. 62—101.)

1. A refrigerator car constituting a train unit and having two longitudinal mains adjacent to the floor, upright branch pipe lines extending vertically from said mains at one end of the car, one of said mains and its branch constituting a flow conduit, and the other main and its branch a return conduit, a plurality of substantially horizontal sinuous conduits each composed of return bends and connected at one end with one of said branch lines and at its opposite end with the other branch line, and means for supporting said sinuous conduits in different horizontal planes, and spaced from each other, so that a circulation of air is permitted between said conduits and between the members of each conduit, the said mains being provided with flexible coupling members adapted to be coupled to complemental coupling members on corresponding mains carried by other train units.



1,352,533. TRAVELING REFRIGERATING PLANT. HENRY RUSSELL ROSS, St. John, New Brunswick, Canada. Filed Dec. 22, 1919. Serial No. 346,760. 3 Claims. (Cl. 62—117.)

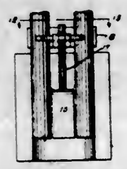


1. A traveling refrigerating plant comprising a housing car, a brine reservoir therein, a brine pump having its intake connected with said reservoir, a flow pipe line communicating with the outlet of the pump and extending therefrom through the rear end of the car, a return pipe line extending through the same end of the car to the reservoir, said flow and return pipe lines being provided with means outside the car for connection with flow and return pipe lines on a refrigerator car, a complete refrigerant-circulating system carried by the housing car and including an evaporating conduit within the brine tank, a compressor, a conduit constituting a condenser element and a receiver, said compressor, condenser element, and receiver being connected in series with the evaporating conduit, whereby a volatile refrigerant may be supplied in liquid form to the evaporating conduit, and conducted in gaseous form therefrom, the said condenser element being provided with a cooling conduit for cooling the refrigerant in its passage from the compressor to the receiver, means for circulating a cooling liquid through said cooling conduit, and means for cooling said liquid while it is circulating.

1,352,534. WELDING-ROD. RICHARD F. RUSSELL, Jersey City, N. J., assignor to Air Reduction Company, Inc., a Corporation of New York. Filed June 24, 1919. Serial No. 306,452. 6 Claims. (Cl. 75—1.)

1. A welding rod having iron as its principal component and containing a rare earth metal as a scavenging agent to prevent formation of deleterious oxids and nitrids when the rod is melted to form a weld.

1,352,535. PROCESS FOR MAKING RETURN-BENDS AND RELATED STRUCTURES. GILBERT E. RYDER, Leonia, N. J. Filed May 1, 1919. Serial No. 294,100. 7 Claims. (Cl. 29—157.)

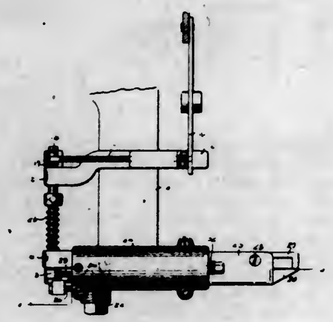


1. The process of making return bends and related structures which comprises slitting the wall of each of two pipes longitudinally from the end for a suitable distance, pressing the portions of the walls adjacent to the side and bottom of each slit out, shaping a connecting piece so its edges correspond in shape to the edges of the bent-out portions, and welding the edges of the bent-out portions of the pipes to those of the connecting piece.

1,352,536. WEFT-DETECTING MECHANISM. EPPA H. RYON, Waltham, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed May 1, 1919. Serial No. 293,986. 3 Claims. (Cl. 139—85.)

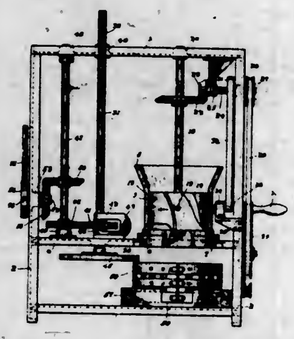
1. In a loom, weft detecting mechanism comprising a stand, a box-like casing slidable on said stand, fixed and movable detectors mounted in the rear end of said casing

and projecting therefrom, and adjustable stop rod slidable in said casing and engaging the rear side of a lateral projection on said movable detector and the front end of said stand, a yieldingly mounted member connected to indicate weft carrier exhaustion, and a second rod also



slidable in said casing and having its opposite ends abutting said member and said movable detector respectively, said two rods engaging said movable detector at substantially equal distances from the pivot thereof whereby said second rod is normally positioned by said stop rod at its rearward limit of movement.

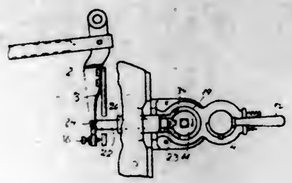
1,352,537. FRUIT-CRUSHER. STEFANO SANTILLI, Canton, Ohio. Filed June 7, 1920. Serial No. 386,955. 5 Claims. (Cl. 146—9.)



1. A device of the character described comprising a cylindrical hopper, a rotatable cylindrical crushing head located in the hopper and provided in its periphery with downwardly and rearwardly disposed grooves, and a crushing plate connected to the lower end of said hopper and engaging the lower end of the crushing head and provided with grooves oppositely disposed to the grooves in the crushing head.

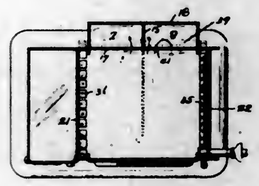
1,352,538. THERMOSTATIC CUT-OFF. AXEL UNO SÄRNMARK, Gottenborg, Sweden. Filed Apr. 3, 1919. Serial No. 287,381. 3 Claims. (Cl. 67—117.)

1. In a thermostatic cut off for gas burners, the combination of a main burner, a thermostat, an economizer arranged for giving the thermostat sufficient heat when the main burner is not in use, a pet cock having passages for supplying gas respectively to said main burner and said economizer and adapted to be set to supply gas to one or both of said burners, a second pet cock also having passages for supplying gas respectively to said main



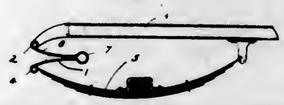
burner and said economizer, and means including said thermostat automatically to effect the closing of said passages.

1,352,539. COMBINED COAL AND GAS STOVE. JOHN H. SATTLER, San Francisco, Calif. Filed Aug. 7, 1919. Serial No. 315,847. 10 Claims. (Cl. 126—36.)



1. In a combined coal and gas stove, a front oven plate, a back oven plate and a bottom oven plate inclosing an oven, a flue for the gases of combustion of the coal fire arranged below the bottom oven plate, said flue and said bottom oven plate being of less width than the oven, whereby passages are formed between the flue and the front and back oven plates, apertured plates in said oven spaced from the front and back oven plates and forming with said plates, continuations of said passages, gas burners in said passages, and means for controlling the flow of air into said passages.

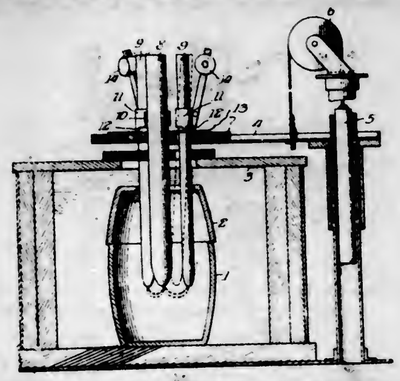
1,352,540. SHOCK-ABSORBER SPRING AND BLANK THEREFOR. NATHAN SCHACHTER, Chicago, Ill. Original application filed Feb. 11, 1918, Serial No. 216,526. Patent No. 1,331,677, dated Feb. 24, 1920. Divided and this application filed Sept. 8, 1919. Serial No. 322,360. 2 Claims. (Cl. 267—46.)



1. A shock absorber spring consisting of an elongated diamond shaped blank folded transversely so as to have an open circular bight portion, and similar, divergently curved tapered arms, and attaching means at the outer end of each arm.

1,352,541. ELECTRIC-ARC FURNACE. FREDERICK VON SCHLEGELL, Evanston, Ill. Filed Jan. 28, 1920. Serial No. 354,700. 10 Claims. (Cl. 204—64.)

1. In an electric arc heater, a pair of electrodes, and means supporting one of said electrodes in contact with the other and permitting relative movement of said electrodes under the influence of the magnetic field set up by the current flowing through said electrodes whereby the



electrodes are in contact when no current is flowing and whereby an arc is automatically established when current is supplied thereto.

1,352,542. FUSE FOR AVIATION-BOMBS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed June 16, 1919. Serial No. 304,658. 2 Claims. (Cl. 102—2.)



1. A fuse for aviation bombs comprising a tubular body, a detonator secured to the lower part of the tubular body, a retarder in the detonator projecting into the lower end of the tubular body, said retarder having an axial bore and an eccentric recess to contain a retarding firing composition, a cap-carrier mounted in the tubular body above the retarder in spaced relation thereto, said cap-carrier having an axial bore alined with the axial bore of the retarder to form a direct conduit from the cap to the detonator, said cap-carrier also having a branch bore leading from the cap to the space between the cap-carrier and the detonator to form a passage from the cap to the eccentric recess in the retarder containing the retarding firing composition, a ball normally interposed between the alined bores of the retarder and cap-carrier to close the direct conduit therethrough, said ball being displaceable to open said conduit, a striker pellet slidable in the tubular body to impinge on the cap carried by the cap-carrier, a spring normally pressing the striker pellet away from the cap-carrier, a bolt movable in the striker pellet to engage the tubular body to hold the pellet against movement in said body, a spring normally pressing the bolt into position of disengagement with the tubular body, and a screw-propeller having a hub screw-threaded into the upper end of the tubular body and provided with a tail normally engaging the bolt to hold the latter in engagement with the tubular body, said propeller rotating through the falling of the bomb to unscrew its hub and to withdraw the tail from the bolt, the freed bolt responding to the action of its spring to release the striker pellet so that the latter can impinge on the cap when the bomb strikes an obstacle.

1,352,543. PERCUSSION-FUSE FOR PROJECTILES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed Mar. 31, 1919, Serial No. 286,489. Renewed July 21, 1920, Serial No. 398,031. Divided and this application filed July 21, 1920. Serial No. 397,945. 6 Claims. (Cl. 102—39.)

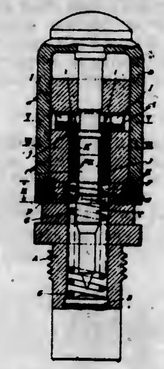


3. A percussion-fuse comprising a body-part having an axial bore with a cap-carrier at the rear end of said bore, a striker having an impact head and a shank movable in said axial bore, displaceable segments interposed between the fuse body-part and the striker to prevent premature rearward movement of the striker onto the cap-carrier, a counter-ring slidable on the striker-shank and having a limited forward movement in the axial bore, spring-pressed bolts carried by the counter-ring to engage a reduced part of the striker-shank with the counter-ring at the forward limit of its movement in the axial bore and the striker-shank at the rearward limit of its movement as determined by the interposed segments to prevent premature forward movement of the striker, said counter-ring by its inertia during the flight of the discharged projectile moving rearward in the axial bore to release the bolts from the striker-shank, and means operating during the flight of the projectile for moving the striker forward to release the segments to be detached by the centrifugal action imparted by the rotation of the projectile to permit subsequent rearward movement of the striker onto the cap-carrier resulting from impact of the head on the target.

1,352,544. PERCUSSION-FUSE FOR PROJECTILES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919, Serial No. 286,489. Renewed July 21, 1920. Serial No. 398,031. 6 Claims. (Cl. 102—39.)

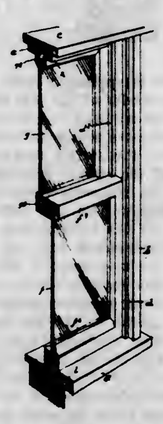
1. A percussion fuse comprising a body-part having an axial bore with a cap-carrier at the inner end of said bore, a striker movable in the axial bore having a head projecting beyond the body-part operating on impact to drive the striker inward onto the cap-carrier, a spring normally pressing the striker outward, centrifugally actuated bolts slidable in the body-part to engage the striker to hold the latter inward against the outward thrust of the spring, said bolts moving outwardly to release the striker in response to the centrifugal force imparted by the rotation of the discharged projectile, and displaceable segments

interposed between the body-part and an element of the striker to limit the inward movement of the striker toward the cap-carrier, said segments being freed by the forward movement of the released striker imparted by the spring,



the freed segments responding to the centrifugal force imparted by the rotation of the discharged projectile to move clear of the striker to permit subsequent inward movement of the latter onto the cap-carrier.

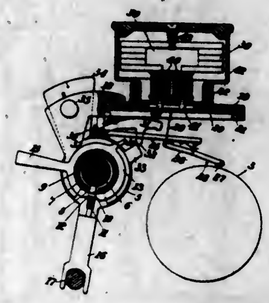
1,352,545. WEATHER-STRIP. WILLIAM SCHNEKENBURGER, Detroit, Mich. Filed Feb. 7, 1920. Serial No. 357,075. 2 Claims. (Cl. 20—69.)



1. In a window, the combination of a window sash provided with a groove, a weather strip adapted to be attached to the window frame, said strip provided with a tongue adapted to be received in the groove in the window sash, said strip bent upwardly to form a yielding flange adapted to abut the side of said sash so as to yield resistingly outwardly therefrom as the sash is seated thereagainst, said flange turned outwardly at its upper extremity to form an outwardly projecting tongue adapted to be received within a groove in a window stop, said stop provided with such groove.

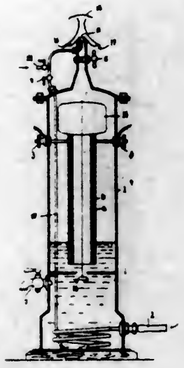
1,352,546. ARRANGEMENT FOR PHONOGRAPHICALLY RECORDING AND REPRODUCING TELEPHONIC MESSAGES. FRANZ SHELAU, Berlin-Wilmersdorf, Germany, assignor of one-half to Alexander M. Newman, Berlin-Wannsee, Germany. Filed Nov. 30, 1915. Serial No. 64,210. 7 Claims. (Cl. 179—6.)

6. In an arrangement for phonographically recording and reproducing telephone messages, a sound box movable into a recording position and into a reproducing position and provided with a diaphragm, recording and reproducing means connected with said diaphragm, electrical diaphragm actuating means adapted to be removably fitted



to said sound box in operative relation to said diaphragm, and means likewise adapted to be fitted to said sound box removably, for receiving the sound waves produced by the diaphragm when reproducing.

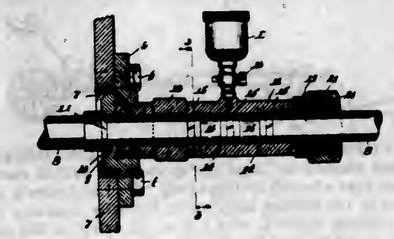
1,352,547. ELECTRICAL HEATING APPARATUS. LOUIS ELIE SEIMBILLE, Paris, France, assignor to Les Successeurs d'Albert Godde, Bedin & Cie., Paris, France. Filed May 23, 1919. Serial No. 299,188. 2 Claims. (Cl. 219—40.)



1. In apparatus of the class described, a boiler, a pair of tubular electrodes in the boiler and spaced from the top and bottom thereof, one of said electrodes being within and spaced from the other, a horizontal partition in the boiler, below the electrodes, and having an opening, means to supply water to the boiler, a valved steam escape for the boiler, a valve to close the opening in the partition, and a float to operate said valve.

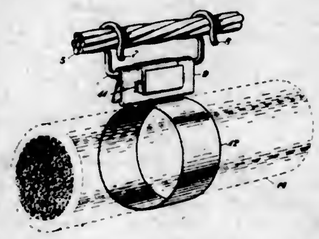
1,352,548. VALVE-STEM STUFFING-BOX. JAMES SHELTON, Knoxville, Tenn. Filed Oct. 16, 1917. Serial No. 196,880. 2 Claims. (Cl. 286—36.)

2. The combination of a collar having an opening therethrough, said collar having a valve seat at one side and a threaded recess at its other side surrounding said opening; a throttle stem and a valve carried thereon, said stem passing through said opening and said valve being adapted to seat on said valve seat; a tubular stuffing box detachably threaded into said recess and projecting outwardly from said collar and through which said stem slidably passes; packing elements disposed on said stem intermediate the ends of said stuffing box; and a packing ele-



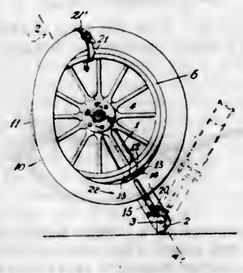
ment surrounding said stem and carried at the outer end of said stuffing box, substantially as described.

1,352,549. CABLE-HANGER. CHARLES G. SINCLAIR, Jr., Towaco, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 20, 1919. Serial No. 283,694. 4 Claims. (Cl. 248—33.)



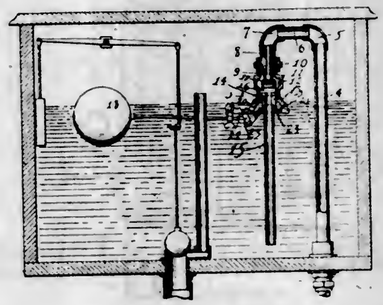
1. In a cable supporting device adapted to be secured to a messenger or supporting wire, a yoke provided with hooked members for gripping said wire, a saddle member rotatably mounted on said yoke and provided with a slotted portion and an embossed member, and a band fixed at its respective ends to said slotted portion and embossed member.

1,352,550. TIRE-TOOL. CLIFTON E. SINGLETON, Brooklyn, N. Y. Filed Jan. 30, 1919. Serial No. 273,962. 5 Claims. (Cl. 157—6.)



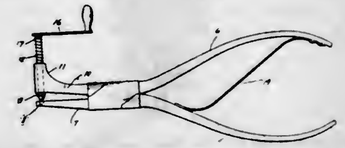
1. A tire tool comprising: an arm adapted to be rotatably supported by the hub of a wheel, a tire stretching member supported on said arm for entry between the tire and rim of the wheel, anti-friction members one for peripheral engagement with the rim, one for engagement with the inside of the tire and one for engagement with the side of the rim all carried by said tire stretching member and a tire guiding member engaging with the side of the tire to move the latter into the plane of the rim.

1,352,551. FLUSH-VALVE FOR WATER-CLOSETS. GEORGE F. SMITH, Buffalo, N. Y. Filed Apr. 20, 1916. Serial No. 92,520. 1 Claim. (Cl. 137—104.)



In a tank valve, a valve seat element, a discharge pipe carrying at its upper end a tubular valve member having one end closed and provided with a valve element coöperating with said valve seat element, a flow chamber supported from said valve seat element, the remaining end of said pipe adapted to project below the minimum low fluid level in a tank whereby said pipe is always fluid sealed, and a laterally extending passage at the top of said valve member and of greater length than the diameter of the bore of said valve member and establishing communication between said pipe and said chamber whereby water issuing from said chamber must pass through said passage prior to discharge thereby eliminating all hissing noise of the fluid during operation of the valve.

1,352,552. FINISHING AND BURNISHING PLIERS. LOUIS R. SMITH, Lomita, Calif. Filed Oct. 7, 1919. Serial No. 328,958. 5 Claims. (Cl. 29—90.)

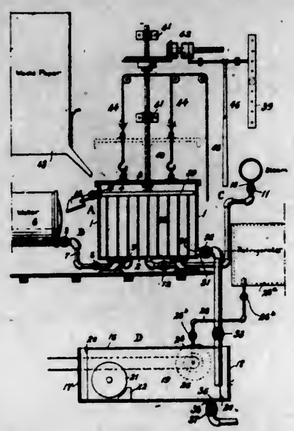


1. A finishing and burnishing pliers comprising a pair of jaws, and a finishing and burnishing element mounted on one of said jaws in the opening therebetween.

1,352,553. SEPARATING WAXLIKE MATERIAL FROM PAPER-STOCK. WILLIAM HAROLD SMITH, Washington, D. C. Filed Nov. 21, 1916, Serial No. 132,711. Renewed Jan. 23, 1920. Serial No. 353,591. 6 Claims. (Cl. 252.)

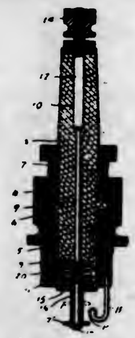
1. The herein-described method of treating paper stock coated or charged with a foreign material of the wax and paraffin class, it consisting in subjecting a mass of such paper to the action of water and heat, causing the softening of the paper and the softening or melting of the foreign material, causing the major part of the foreign material to separate from the paper through its difference in specific gravity after it has been softened or melted and separating it from the fluid at the surface thereof, then

causing the residue of the foreign material to separate from the paper and fluid and form relatively hardened



accumulations, and removing said accumulations bodily from the fluid, substantially as described.

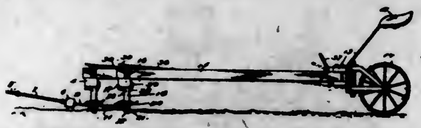
1,352,554. SPARK-PLUG. WARD H. SNYDER, Congress Park, Ill. Filed Nov. 29, 1918. Serial No. 264,597. 6 Claims. (Cl. 123—169.)



1. A spark plug for internal combustion engines comprising a metallic exteriorly threaded plug, a sparking terminal extending therefrom, an insulating core therefor having a cylindrical recess in its lower end, a central current conducting rod mounted within said core and extending below the same, a piston head movably mounted upon said current conducting rod and adapted to coöperate with the walls of said cylindrical recess, a sparking point extended from said movably mounted piston head, and means for returning said movably mounted piston head to the outer portion of said cylindrical recess after the same has been forced therein by the compression developed in the cylinder of the engine.

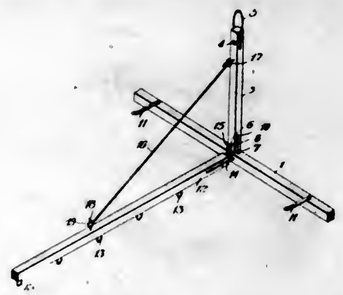
1,352,555. FARM IMPLEMENT. DELL DELBERT SOMMERS, Champion, Alberta, Canada. Filed May 26, 1919. Serial No. 299,910. 11 Claims. (Cl. 97—25.)

1. A farm implement including a plurality of sections arranged in staggered relation and flexibly connected to each other, a draw bar flexibly connected to each of the sections, a bar having a driver's seat mounted thereon, wheels supporting the bar, tongues flexibly connected to the bar and each connected to one of the sections, tillers carried by the sections, and means for operating the tiller, substantially as described.



3. A farm implement including a beam, a tiller rotatably mounted beneath the beam and including a pair of spaced parallel bars adapted to alternately travel underneath the surface of the ground, stop means normally retaining the tiller against rotation, and means for tripping the stop means to allow rotation of the tiller for reversing the position of the bars.

1,352,556. GARMENT-HANGER. CLARENCE A. SOULE, Canandaigua, N. Y. Filed July 5, 1919. Serial No. 308,794. 3 Claims. (Cl. 45—37.)



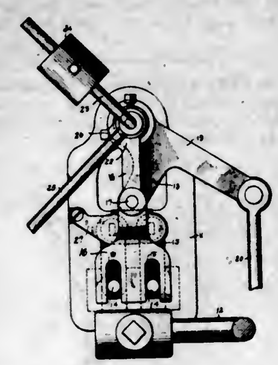
1. In a garment hanger, the combination with a base adapted to rest against a wall, of a rigid upright secured thereto substantially perpendicular to the base and provided with means by which the base and upright may be suspended, a detachable garment supporting arm extending outwardly from the base at substantially right angles to the base and upright and means for bracing said garment supporting arm, said base, upright and garment arm being readily folded into a compact bundle no longer than the longest member, and containing those members arranged in parallelism.

1,352,557. HALTER. JESS STANSBIE, Cambridge, Nebr. Filed Mar. 27, 1920. Serial No. 369,266. 2 Claims. (Cl. 54—24.)



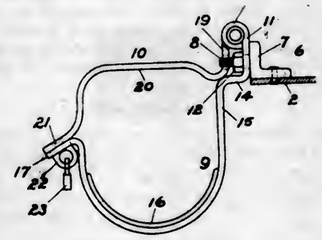
1. A halter comprising a single length of rope, one end portion of said length being extended back upon the length, said end portion forming a chin piece, the adjacent portion of the length forming a nose piece, loops formed in the chin and nose pieces adjacent their junction with each other for connecting said chin and nose pieces to provide a loop and prevent longitudinal movement of said chin and nose pieces with respect to each other, loops formed in the other end portions of the chin and nose pieces to connect the same and prevent longitudinal movement of said chin and nose pieces with respect to each other, when the halter has been adjusted, the other end portion of said length being passed through the loop.

1,352,558. WARP STOP-MOTION. CHARLES M. STONE, Lewiston, Me., assignor to Crompton & Knowles Loom Works, a Corporation of Massachusetts. Filed Feb. 19, 1920. Serial No. 359,857. 3 Claims. (Cl. 139—92.)



1. A warp stop motion comprising a frame, a plurality of drop wires, angularly movable indicating bars associated therewith and supported in said frame, an actuator for said bars, a member on which said actuator is pivoted, means to oscillate said member regularly, a stop for said actuator, a weight normally holding said actuator against said stop, and a connection from said actuator through which the loom will be stopped on free movement of said actuator.

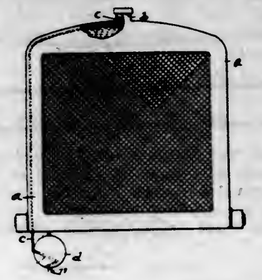
1,352,559. TIRE-HOLDER FOR AUTOMOBILES. LAWRENCE H. TEEL, Salem, Mass. Filed Oct. 13, 1919. Serial No. 330,397. 5 Claims. (Cl. 224—29.)



1. The combination with a tire-supporting rack and fixture secured to said rack having a threaded shank projecting therefrom, of a tire-retaining member arranged upon said shank and extending by the face of a tire mounted upon the rack, a nut on said shank fixing said member, a member hinged to said first-named member and movable to occupy either an operative position or an out-of-the-way turned position and when occupying its operative position coöperating with said first-named member to form a housing enveloping said nut, said members being provided with ends adjacent one another and lockable together when said hinged member is occupying its operative position.

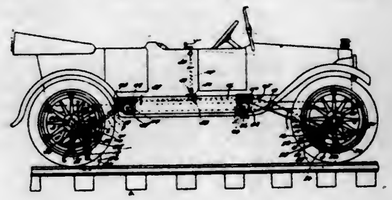
1,352,560. COOLING SYSTEM FOR AUTOMOBILE-ENGINES. HORACE T. THOMAS, Lansing, Mich. Filed July 22, 1918. Serial No. 246,008. 3 Claims. (Cl. 123—174.)

1. The combination with a cooling system having a radiator, of a tank located below said radiator, a condenser within said tank opening to the interior of the same and a delivery pipe leading from the radiator above the normal level of liquid therein and communicating with said condenser, said tank being adapted to contain liquid



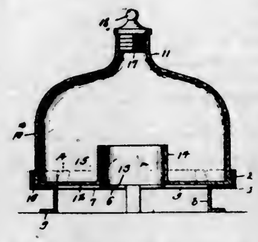
surrounding said condenser and being provided with an escape for steam above the level of the liquid therein.

1,352,561. DISK FLANGE ATTACHMENT TO AUTOS AND TRAILERS. MAT ROY THOMPSON, Chicago, Ill. Filed Jan. 30, 1919. Serial No. 274,003. 5 Claims. (Cl. 104—244.)



1. In an attachment for automobiles, the combination with the automobile wheels adapted to ride balls of rails, of wheel retaining disks therefor, flexible hangers for the disks, guides for the hangers, and means for raising and lowering the hangers on the guides, whereby the disks may be raised and lowered.

1,352,562. FLYTRAP. JULIA TOKASH, McDowell, W. Va. Filed Nov. 25, 1919. Serial No. 340,634. 1 Claim. (Cl. 43—122.)



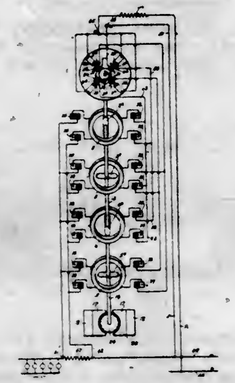
In a fly trap, a supporting annular base provided with an upwardly extending flange, clamping arms formed upon said flange, a central opening and radial slots in said base, the material cut from said slots being bent downwardly and flanged to form legs for said base; a transparent dome like container supported on said base and having an upwardly extending circular wall in communication with the opening in said base, an annular bead formed upon said container, to be engaged by the clamping arms formed upon the flanged wall, said clamping arms being bent inwardly and upwardly to overlie said bead, and to extend a slight distance upon the walls of the container thereby preventing the casual detachment thereof.

1,352,563. COLLAR. JOHN MANNING VAN HEUSEN, Jamaica Plain, Mass. Filed Jan. 22, 1916. Serial No. 73,526. 3 Claims. (Cl. 2—67.)



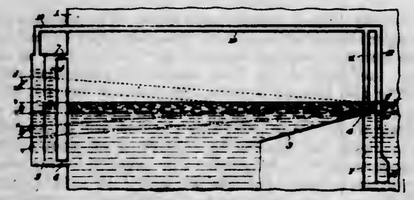
1. A soft turned-down collar of multiply interwoven fabric having a straight fold portion of increased flexibility therein and provided in its inner or neck band portion with one or more indentations having gussets secured thereto and closing the same, substantially as described.

1,352,564. ELECTRIC METER. THOMAS W. VARLEY, New York, N. Y. Filed Dec. 12, 1918. Serial No. 266,436. 3 Claims. (Cl. 171—265.)



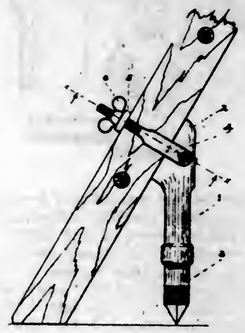
1. In an electric meter of the class described, a rotatable system having a soft iron element fixed thereto, two identical pairs of stationary coils similarly disposed as to the axis of rotation of the aforesaid system and adapted to exert opposite torques upon the iron element, each pair having an E. M. F. coil and a load coil, the load coils being adapted to carry certain currents such that the current flow is proportional to the load and the E. M. F. coils being adapted to carry certain currents such that the current flow is proportional to the E. M. F., the current flow in one pair of coils being the same direction and in the other pair of coils being in opposite directions, and means for simultaneously reversing the E. M. F. coils in synchronism with the rotation of the soft iron element.

1,352,565. METHOD AND MECHANISM FOR MEASURING FLUID DEPTHS. SYLVESTER M. VIELE, Altoona, Pa. Filed Jan. 22, 1918. Serial No. 213,120. 10 Claims. (Cl. 73—54.)



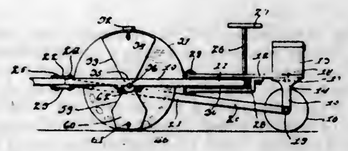
1. In the determination of the depth of liquid above a datum point in a compartment having a gage for showing the level of liquid therein and a differential gage comprising a conduit having connected apertures adapted to be sealed by said liquid, the method which consists in sealing said apertures and providing liquid columns in said gages by liquid in said compartment and providing fluid pressure in said conduit superior to that in said compartment and thereby depressing the liquid level in said differential gage below the liquid level in said gage first named.

1,352,566. SAFETY DEVICE FOR LADDERS. GUSTAV VOLL, Seattle, Wash.; Marie Voll administratrix of said Gustav Voll, deceased. Filed Apr. 2, 1919. Serial No. 286,935. 1 Claim. (Cl. 228—60.)



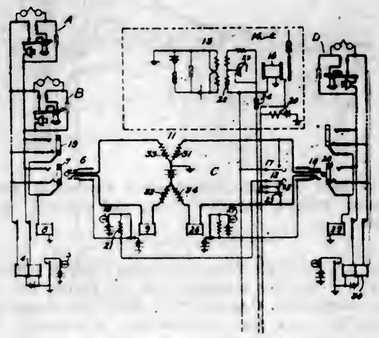
An auxiliary leg for a ladder, comprising a supporting member interiorly threaded at one end and carrying thereat a reversible foot, the other end carrying a head having an inclined face with slight projections thereon, arms bolted to the head, extending in spaced parallel relation, the free ends thereof threaded and adapted to extend beyond the sides of a ladder leg, a block slidably engaged with said ends, and winged nuts threaded on said ends and coacting with the block, and adapted to clampingly attach said device to a ladder.

1,352,567. WINTER ROAD OR SNOW AND ICE MELTING MACHINE. AXEL WETTERVIK, Iron River, Mich. Filed Jan. 15, 1920. Serial No. 351,663. 2 Claims. (Cl. 37—60.)



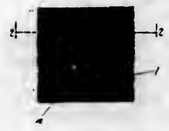
1. In a machine of the class described, the combination with a pair of horizontal frames coupled together at their front and rear ends, of a hood mounted on each of the frames and carried thereby and each having a doorway in its outer side, a door to close each door-way, a fire box having at each of its sides a stub shaft rigidly fixed to the side rails of each frame, a hollow roller encompassing the fire box and rotatably mounted in each of the frames on said stub shafts and each having a doorway in its outer end, a door to close each of said doorways, said fire box having a grate and below the grate an ash receptacle, a door-way in the side of the fire box adjacent to the door-way of the roller, and a door to close said door-way in the fire box.

1,352,568. TELEPHONE SYSTEM. CHARLES WHITE, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 8, 1918. Serial No. 233,259. 6 Claims. (Cl. 179—35.)



1. A telephone exchange system comprising a telephone line terminating in a plurality of jacks, a cord circuit having a test conductor, a resistance coil, a test relay, and means serving when actuated to connect said resistance in parallel relation with the test conductor to thereby effect the operation of said test relay.

1,352,569. FABRIC AND PROCESS OF MAKING THE SAME. JOSEPH N. WIGGIN, East Orange, N. J., assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J., a Corporation of New Jersey. Filed Dec. 23, 1916. Serial No. 138,529. 18 Claims. (Cl. 41—17.)



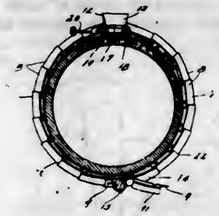
1. A fabric having threads of irregular diameter, the face of which has been compressed.

1,352,570. ADJUSTABLE THIRD OR FOURTH POINT SUPPORT FOR BRAKE-BEAMS. CHARLES HAINES WILLIAMS, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed June 6, 1919. Serial No. 302,225. 2 Claims. (Cl. 188—213.)



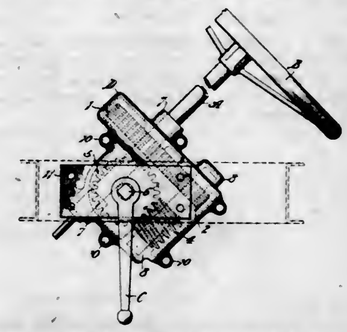
2. The combination of a part of a truck, a track member for supporting a third or fourth point support for brake beams mounted thereon and having yielding relation therewith, and means arranged on said truck part and coöperating with said track member for vertically adjusting the free end of the latter.

1,352,571. APPARATUS FOR FORMING PIPE-JOINTS. DE WITT H. WYATT, Columbus, Ohio, assignor to The Wyatt Engineering Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 23, 1918. Serial No. 267,924. 4 Claims. (Cl. 25—126.)



3. In an apparatus for forming pipe joints, a plurality of sections each in themselves formed of a plurality of separable members flexibly joined together, means for detachably uniting one end of one section between members of another section to approximately present the desired size, means for joining the ends of the previously connected sections together about the meeting ends of a pair of pipes, and additional means whereby the assembled members may be given a final adjustment as to size to properly fit said pipes.

1,352,572. STEERING MECHANISM FOR MOTOR-OPERATED VEHICLES. CLIFFORD H. YOUNG, St. Louis, Mo., assignor to The Auto & Motor Truck Axle Company, a Corporation of Delaware. Filed Feb. 3, 1919. Serial No. 274,755. 1 Claim. (Cl. 74—79.)



A steering mechanism for motor-operated vehicles, comprising an inclined steering shaft, a split housing on the frame of the vehicle equipped with a bearing for said steering shaft, a horizontally-disposed shaft in said housing arranged at right angles to said steering shaft and provided at its outer end with a rock arm that controls the position of the front wheels of the vehicle, a worm gear on said horizontal shaft, a subshaft journaled in said housing and arranged parallel to said steering shaft, a worm on said subshaft that meshes with the worm gear on said horizontal shaft, a straight faced gear on said steering shaft and a pinion on said subshaft that meshes with said straight faced gear.

1,352,573. SPIKE. EVA LOUISA DULCIE BAGG BALFOUR and JOHN WILLIAM BLACKBURN BALFOUR, London, England. Filed June 25, 1920. Serial No. 391,739. 1 Claim. (Cl. 85—21.)

A spike consisting of a head and a shank, the shank projecting downward from the head and being rectangular in cross-section with parallel front and back faces and parallel side faces immediately below said head, the side faces remaining parallel throughout their entire length, the front face of said shank being inclined slightly

toward the back face thereof from a line spaced beneath the head to a line adjacent the point of the spike, the back and front faces being connected at the point by a sharply inclined surface, the lower part of the rear face lying in the same plane as the upper part thereof, said spike having a continuous series of equal notches formed in the rear face between the upper and lower parts



thereof, said notches each having its upper surface inclined slightly toward the front face of the spike and its lower surface inclined abruptly away from the front face of said spike, the connecting edges between the notches lying in the plane of the upper and lower parts of the back face of the spike, the slightly inclined front face portion being smooth and unbroken throughout whereby to offer no obstruction in driving.

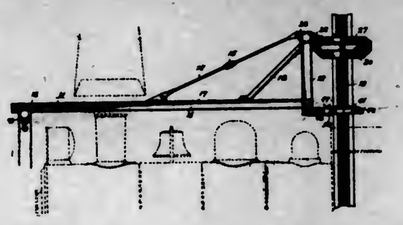
1,352,574. SPRING CONSTRUCTION. GEORGE W. BARNES and DON CARLOS TRAVIS, Kenosha, Wis., assignors to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed May 1, 1916. Serial No. 94,557. 2 Claims. (Cl. 5—29.)



2. In a spring construction the combination with opposed frame members having coil springs interposed therebetween, of a series of cross connecting members extending through the coils of the said springs and each provided with an offset portion, vertically extending portions connecting the offset portion to the main body of the cross connecting link or member and fitting within the adjacent sides of the coil and a second series of cross connecting members each having a plurality of vertically extending shoulder portions fitting within the adjacent sides of the corresponding coils and means intermediate of the vertically extending portions of the first mentioned series of cross connecting members detachably interlocked with means intermediate of the shoulder portions of the second mentioned series of cross connecting members by the tension of the adjoining coils of the spring between which the members are interposed.

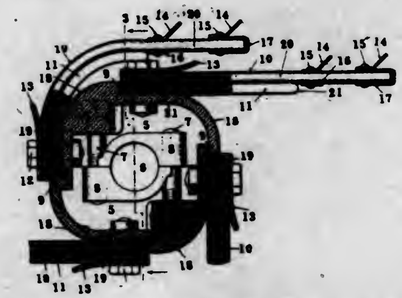
1,352,575. CRANE. CHARLES A. BINGAMAN, Reading, Pa. Filed Mar. 20, 1919. Serial No. 283,763. 12 Claims. (Cl. 212—56.)

1. In a swinging crane, the combination of a boom, a hoisting device movably sustained by the boom, an anti-friction bearing for pivotally connecting to and supporting the boom from a stationary column so that the boom may revolve around the column, and an anti-friction thrust bearing separate from the supporting bearing



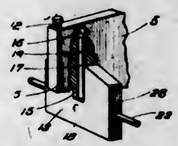
each of said bearings comprising a stationary member extending around, separate from, and secured to, the column.

1,352,576. BEATER FOR HOG-SCRAPING MACHINES. FRANK V. BRECHT and HELMUTH W. TOHTS, St. Louis, Mo., assignor to Gus v. Brecht Butchers' Supply Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 9, 1920. Serial No. 372,417. 2 Claims. (Cl. 17—11.)



1. In a device of the class described, a hub, a flexible beater arm of textile material secured to said hub and having longitudinal selvage edges, a protective clip secured to the outer end of said beater arm, and scraper blades secured to the face of said beater.

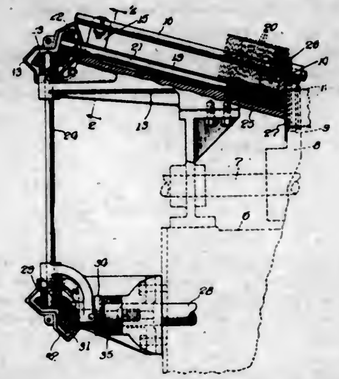
1,352,577. ADJUSTABLE TOY VEHICLE. MAYNOR D. BROCK, Kansas City, Mo. Filed Aug. 16, 1918. Serial No. 250,215. 3 Claims. (Cl. 208—165.)



2. A toy vehicle comprising a beam, axle blocks having cutaway portions to receive the beam, upstanding pins on the axle blocks extending into vertical recesses in the beam, said pins having a plurality of transverse openings, and fastening devices adapted to pass through any of the openings to secure the pins rigid with the beam.

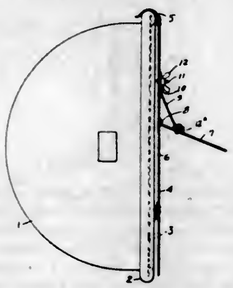
1,352,578. CAN-END-FEEDING MECHANISM. WILLIAM CAMERON, Chicago, Ill., assignor to Cameron Can Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 20, 1919. Serial No. 283,786. 6 Claims. (Cl. 113—114.)

1. In a can end feeding mechanism, the combination of a magazine including a bottom, a worm disposed longitudinally of the magazine parallel with said bottom and having threads spaced to accommodate the edge of one end only between successive threads, means for actuating said worm to separate the ends in the magazine and feed



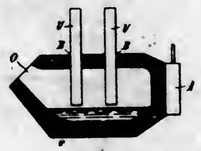
them in separated relation toward the delivery end thereof, and an abutment disposed in the path of said can ends to insure an edgewise delivery of the ends from the magazine when released by said worm.

1,352,579. HEADLIGHT-DEFLECTOR. HOWARD O. CARTER, Detroit, Mich. Filed May 31, 1919. Serial No. 300,907. 2 Claims. (Cl. 240—45.6.)



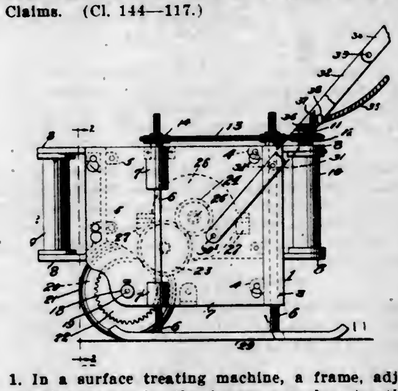
1. The combination with a head-light, of an apertured shield mounted thereupon at the front thereof, reducing the radiation of light, a vizor hinged upon said shield above the aperture thereof, and inclined to intersect the beam of light discharging through said aperture, an arm loosely secured to said vizor and inclined upwardly toward the shield, and means clamping the upper end of said arm to the shield permitting vertical adjustment of said end.

1,352,580. MANUFACTURE OF STEEL. GEORGES CINILLE, Epierre, France. Filed Aug. 10, 1910, Serial No. 576,561. Renewed Jan. 30, 1919. Serial No. 274,108. 14 Claims. (Cl. 204—64.)



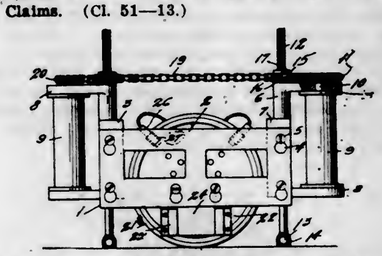
1. A process for producing hard steel which consists in placing crude iron in a Bessemer converter in the presence of basic slags, supplying additional heat thereto to maintain an increased fluidity of the mass, and injecting gas into the mass below its surface in such manner as to intimately mix the metal with the basic slag whereby to completely eliminate the phosphorus, sulfur and other impurities from the mass.

1,352,581. HANDLE ATTACHMENT FOR SURFACE-TREATING MACHINES. ALEX A. CLARKE, Dallas, Tex. Filed June 26, 1919. Serial No. 306,964. 2 Claims. (Cl. 144—117.)



1. In a surface treating machine, a frame, adjustable supporting means for the frame, a surface treating element arranged within and connected with the frame, handles connected with the frame near its opposite ends, means to operate the adjustable supporting means including a shaft connected with one handle to be turned thereby, studs secured to the opposite sides of the frame, a resilient yoke to straddle the frame and having its ends apertured to receive the studs, a handle connected with the yoke, a gear connected with said shaft, a second gear carried by the yoke and engaging the first named gear, a manually operated element connected with the handle near its rear end, and a flexible element connecting the manually operated element and the second named gear.

1,352,582. SURFACE-TREATING DEVICE. ALEX A. CLARKE, Dallas, Tex. Filed Nov. 23, 1918, Serial No. 263,813. Renewed Dec. 22, 1919. Serial No. 346,773. 4 Claims. (Cl. 51—13.)

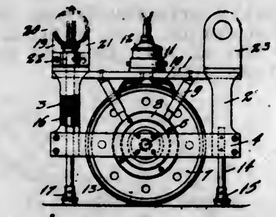


1. In a surface treating device, a supporting frame, said frame having handles whereby it may be manually moved over the work, a motor propelled surface treating member projecting from the frame, supporting elements projecting from the frame on each side of the surface treating member and adjustable in said frame for positioning the surface treating member with relation to the work, and means operated by one of the handles for adjusting the supporting elements.

1,352,583. SURFACE-TREATING MACHINE. ALEX A. CLARKE, Dallas, Tex. Filed Mar. 26, 1918, Serial No. 224,748. Renewed Feb. 6, 1920. Serial No. 356,797. 3 Claims. (Cl. 51—5.)

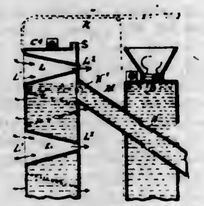
1. In a surface treating hand device, a supporting frame, handles on the frame whereby it may be traversed

and applied to the work, a fixed horizontal armature mounted on the frame intermediate the ends thereof, a horizontal motor housing electrically energized and mounted to revolve around the armature, an annular surface treating member surrounding the housing, and projecting



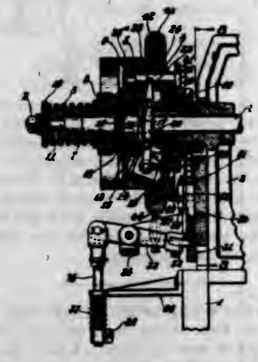
work sustaining elements on the frame on each side of the housing for positioning the surface treating member with relation to the surface of the work, said elements being constructed to effect an advancement or retraction of the surface treating member with relation to the surface of the work.

1,352,584. RADIATOR. EDWARD T. CURRAN, Detroit, Mich. Filed June 22, 1918. Serial No. 241,326. 5 Claims. (Cl. 257—125.)



2. In a water cooling apparatus for automobile engines, the combination of a front receptacle having conical air passages therethrough, the smaller ends of said passages being rearwardly arranged, a second receptacle located at the rear of the first-named receptacle with an air passage intervening therebetween, said second receptacle presenting a cooling surface in the line of flow of air passing through said passages, and adapted to permit the passage of air at one side of said cooling surface.

1,352,585. CLUTCH AND BRAKE MECHANISM. STEPHEN A. DOBYNS, St. Louis, Mo., assignor to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 10, 1917. Serial No. 147,943. 11 Claims. (Cl. 74—46.)



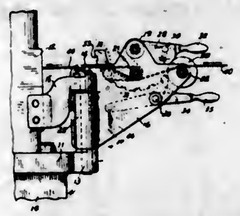
1. In a machine of the class described, a driven shaft including a clutch element, a clutch for said shaft, means for shifting said clutch including a clutch shifting element, a brake for said shaft, means for actuating said brake, operative connections between said brake-actuating means and said shaft adapted to utilize the inertia of said shaft to apply said brake, and controlling means operable on said clutch shifting element adapted to cause said element to engage said brake-actuating means.

1,352,586. BRAKE FOR RAILWAY-TRAINS. PIERRE FRANÇOIS DUFOUR, Paris, France. Filed Apr. 29, 1919. Serial No. 293,565. 10 Claims. (Cl. 188—148.)



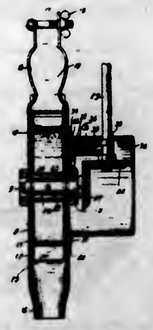
1. A brake installation for railway vehicles, comprising the combination of brakes, actuating means for said brakes, a buffer plunger, a draw-bar and a clutch mechanism controlled by the driver and adapted to operatively connect the said actuating means either with the buffer plunger or the draw-bar, whereby the said actuating means are operated by the buffer plunger when traveling forward and by the draw-bar when traveling backward.

1,352,587. ROLLING-MILL BRIDLE. ERNEST W. DUSTON, Waterbury, Conn., assignor to The Blake & Johnson Company, Waterbury, Conn., a Corporation of Connecticut. Filed June 12, 1919. Serial No. 303,588. 13 Claims. (Cl. 29—17.)



12. The combination with a machine frame provided with a pair of brackets adjacent opposite sides thereof, of a tension device comprising a bridle frame having at one side a lug pivoted to one of said brackets and at the opposite side a second lug adapted to engage the other of said brackets, and a locking pin adapted to pass through said last named lug and bracket to lock said bridle frame in operative position with respect to said machine bracket.

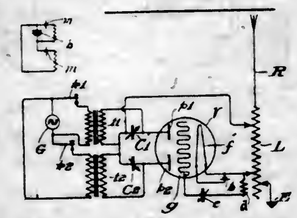
1,352,588. WATER-MOTOR. PAUL EGEDI, Buffalo, N. Y. Filed Oct. 24, 1919. Serial No. 333,032. 3 Claims. (Cl. 253—136.)



1. A water motor comprising a casing, a shaft journaled in said casing projecting therethrough, a rotor

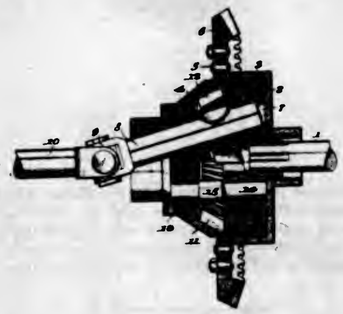
within said casing fixed to said shaft, a bearing block shiftably mounted upon said casing, a driven shaft journaled in said block, and gears fixed to said rotor shaft and driven shaft for transmitting the rotation of said rotor to said driven shaft.

1,352,589. ELECTRICAL TRANSMISSION OF INTELLIGENCE. CORNELIUS D. EHRET, Philadelphia, Pa. Filed Mar. 26, 1919. Serial No. 285,164. 29 Claims. (Cl. 179—15.)



25. The combination with a plurality of oscillators, of means for delivering thereto in predetermined sequence energy of positive and negative currents, respectively, whereby groups of oscillations are produced in like sequence, and independently operable devices controlling said currents in accordance with sound waves.

1,352,590. DIFFERENTIAL MECHANISM. FRANK V. ELBERTZ, Detroit, Mich., assignor to B. F. Everitt Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 22, 1919. Serial No. 272,443. 2 Claims. (Cl. 74—99.)



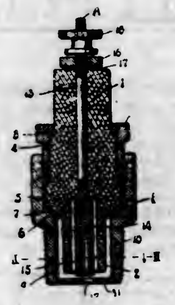
1. In a differential mechanism, a rotatable casing provided with an internal gear, a bushing journaled in the casing having an eccentric bearing recess, a shaft secured in the bushing coaxial with the gear, a shaft alined with the bushing shaft, a wabble shaft journaled in the eccentric recess and connected to the other shaft by a universal joint, and a bevel pinion on the wabble shaft in mesh with the gear.

1,352,591. JEWELRY-CLASP. ABRAHAM L. ELIASOFF and CHARLES BIRNBAUM, New York, N. Y. Filed Mar. 8, 1920. Serial No. 364,084. 2 Claims. (Cl. 24—230.)



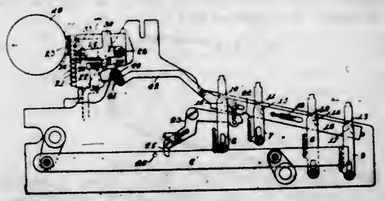
1. An article as characterized comprising a thin box-like body portion having parallel closely spaced top and bottom portions structurally connected by edge flush posts, two of said posts being oppositely disposed in paired relation; an elongated resilient hook-like snap, adapted for extension between said paired posts, the free ends of said snap being provided adjacent the extremities thereof with shoulders for engaging said posts; and a third post intermediate said paired posts in spaced relation thereto, said third post being disposed between the sides of said hook-like snap to guide the same when moved in and out between said top and bottom and for engaging said snap at the bend of the hook thereof when drawn from between said first mentioned posts.

1,352,592. SPARK-PLUG. LOUIS S. FLATAU, St. Louis, Mo., assignor of one-third to Isaac A. Hedges, Webster Grove, Mo., and one-third to Louis A. Benecke, St. Louis, Mo. Filed Oct. 28, 1918. Serial No. 260,046. 6 Claims. (Cl. 123—169.)



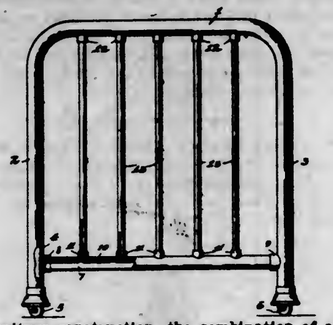
1. A spark plug comprising an insulator, an inner electrode extending through said insulator, an outer electrode in which said insulator is secured, the lower portion of said outer electrode being provided with an ignition chamber and an annular web forming an annular bottom wall for said chamber, said inner electrode having a hollow lower end which lies entirely within said ignition chamber at a point above, but adjacent, to the circular wall of the opening in said annular web, so as to provide an annular spark gap between said hollow lower end and said annular bottom wall.

1,352,593. RIBBON-SHIFTING MEANS FOR CALCULATORS. WARREN FUHRMANN, Westfield, N. J., assignor, by mesne assignments, to Wilkinson Brothers and Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 27, 1918. Serial No. 264,453. 4 Claims. (Cl. 235—60.)



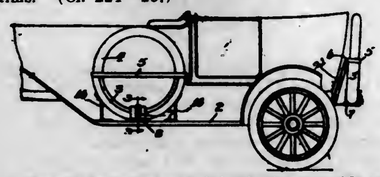
1. In a calculator, the combination with the adding means and printing means, a main operating member, special keys for causing special operations of said means, and signal printing means organized and constructed to cause the printing of signals corresponding to the special keys by the actuation of the key and prior to movement of the main operating member, of a two-color ribbon support, and means connected with the special keys and arranged to be actuated by the special key depressed to cause shifting of the ribbon from normal position to cause the signal characters to print in a color different from that in which the other printing is effected.

1,352,594. FURNITURE CONSTRUCTION. JOHN F. GAIL, Kenosha, Wis., assignor, by mesne assignments, to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Dec. 18, 1915. Serial No. 67,498. 1 Claim. (Cl. 5—4.)



In furniture construction, the combination of a pair of initially separate parts, comprising a tube and an end socket for a spindle having an end wall butted against the wall of the tube, said walls having a common opening therethrough surrounded by a connecting ring consisting of a consolidated composition of the metal of both walls.

1,352,595. TIRE-CARRIER. WALTER R. GREEN, Chicago, Ill. Filed Sept. 10, 1915. Serial No. 50,037. 7 Claims. (Cl. 224—29.)



1. A tire carrier constructed for bottom or side attachment comprising a tire carrying member, a base plate having the tire carrying member resting upon the center portion thereof, and end portions of the base plate bent upwardly and secured to the side of the tire carrying member, said plate being provided at each side of the tire carrying member with a looped portion intermediate of the base portion and the upwardly extending portion so as to provide an enlarged base for bottom mounting and to provide a loop adapted to admit a horizontal bolt therethrough.

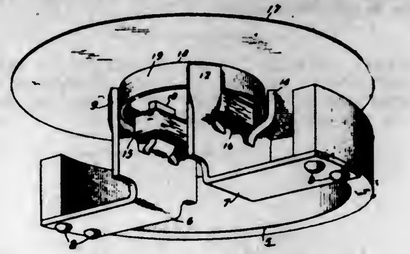
1,352,596. MUD-GUARD BRACE. WALTER R. GREEN, Chicago, Ill. Filed July 21, 1917. Serial No. 181,948. 2 Claims. (Cl. 208—140.)



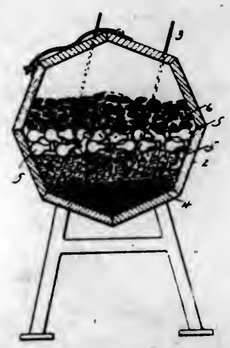
2. The combination with a transversely concaved mud guard of a brace therefor comprising a pair of arms each having a flat end overlapping and bent to fit the corresponding end of the other arm inside the mud guard and means engaging the overlapping portions of the arms for securing the mud guard to the brace, said arms being provided with attaching means at their other ends.

1,352,597. RECEIVER. HENRY C. HARRISON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 23, 1918. Serial No. 259,365. 10 Claims. (Cl. 179—119.)

1. A telephone receiver comprising a permanent magnet, a pair of trifurcated polar extensions secured to the ends thereof, a magnetising winding for each of said polar extensions, and a diaphragm in operative relation with the middle trifurcations of said polar extensions, but so disposed with respect to the outer trifurcations of said polar extensions as not to be affected by magnetic flux passing therethrough.

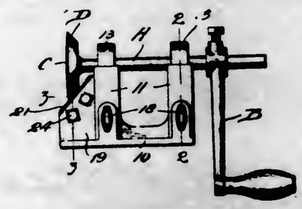


1,352,598. METHOD OF POLISHING AND BUFFING METAL ARTICLES. HUBERT C. HART, Unionville, Conn. Filed Aug. 5, 1919. Serial No. 315,419. 1 Claim. (Cl. 51—278.)



A method of polishing and buffing articles, which comprises placing the articles in a mass of metal balls, together with chamois skin scraps and a polishing powder all in a dry condition and subjecting the mixture to movement against a surface which is softer than that of the balls.

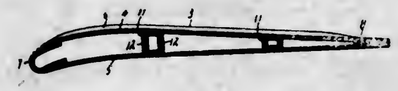
1,352,599. VALVE-FACING TOOL. STEPHEN D. HARTOG, St. Louis, Mo., assignor to S. D. Hartog Manufacturing Company, St. Louis, Mo., a Corporation. Filed May 8, 1919. Serial No. 295,621. 2 Claims. (Cl. 82—1.)



1. In a tool of the class described, a base, spaced housings thereon, bearing members slidingly positioned in the housings, said housings being provided with notches and the bearing members being provided with apertures, which notches and apertures are adapted to coöperate and form

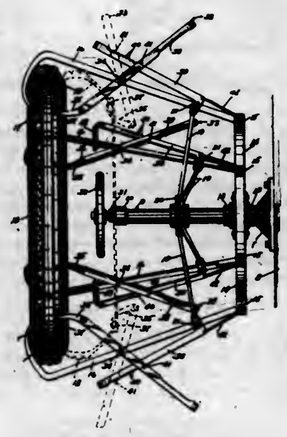
bearings for a valve stem, there being a notch in the side of each bearing member, each of said notches being provided with an inclined face, a set screw penetrating the corresponding wall of each housing and adapted to bear against the inclined face of each notch thereby securing the bearing members in any predetermined position, and a blade on said base adjacent one of said bearings.

1,352,600. AEROPLANE. HENRY L. HASKELL, Ludington, Mich., assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich., a Corporation of Michigan. Filed Oct. 23, 1917. Serial No. 198,027. 11 Claims. (Cl. 244—12.)



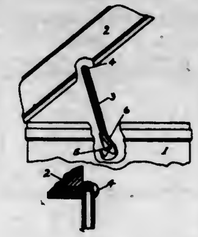
1. A plane or wing for aeroplanes comprising top and bottom walls each formed of multiple-ply veneer cemented together throughout and conformed to transverse curvature, said walls being disposed to converge rearwardly and outwardly with their rear and outer end edges lapped and cemented together with wedge-shaped fillets between, and front and inner end bars formed of multiple-ply veneer cemented together throughout and conformed to U-cross section and disposed between the front and the inner edges of said walls facing inwardly, the walls being lapped and cemented upon the arms of said bars.

1,352,601. TIRE-CASING HOLDER AND SPREADER. PAUL E. HAWKINSON, Minneapolis, Minn., assignor, by mesne assignments, to Kehawke Mfg. Co., Minneapolis, Minn., a Corporation of Minnesota. Filed May 7, 1919. Serial No. 295,425. 14 Claims. (Cl. 154—9.)



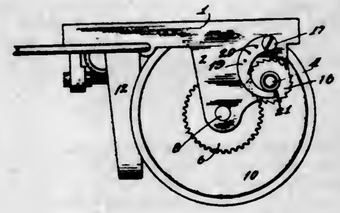
1. An apparatus of the class described comprising a base adapted to be secured to a wall or other vertical surface, a plurality of forwardly projecting arms provided at their extremities with hooks arranged to lie around and engage an edge of a tire casing, being the edge farther away from said base, a second set of hooks adapted to engage that edge of the tire casing nearer said base, means for moving one set of said hooks away from the other set, to spread open the tire casing and means for mounting said arms and hooks on said base for movement around a horizontal axis, and means at said axis arranged when operated to adjust the several hooks toward and away from said axis.

1,352,602. LID-SUPPORT FOR TALKING-MACHINES. JOHN HERZOG, Saginaw, Mich., assignor to Sonora Phonograph Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 15, 1919. Serial No. 271,219. 1 Claim. (Cl. 217—60.)



A lid support for cabinets and the like comprising in combination, a projecting pin on the body of said cabinet, a depending arm pivotally attached to the lid and yieldingly pressed against and slidingly engaging said pin, a flat head on said arm, said head formed with an offset, a spring secured to the head at one side thereof and above said offset, said head formed with a channel in one face thereof, adapted to receive the end of said pin, said channel of irregular shape, one end terminating in the offset and the other end terminating under the spring, the walls of the intermediate part of the channel forming guides for the pin and including a niche to receive said pin when the lid is in its raised position.

1,352,603. PAWL-AND-RATCHET MECHANISM. CLINTON W. HOWE, Chicago, Ill. Filed Aug. 11, 1919. Serial No. 316,699. 1 Claim. (Cl. 74—60.)



A reverse rotation check mechanism embracing a ratchet-wheel, a pivoted pawl adapted to engage the toothed periphery thereof, and resilient members rigidly secured on opposite sides of said pawl and inclosing the hook end thereof to frictionally engage the sides of said ratchet-wheel to positively insure a locking engagement of said pawl with the ratchet-wheel when the ratchet-wheel starts to rotate in a reverse direction.

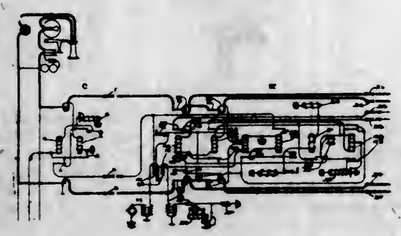
1,352,604. ELECTRIC-SWITCH MECHANISM. HARVEY HUBBELL, Bridgeport, Conn. Filed June 17, 1919. Serial No. 304,879. 9 Claims. (Cl. 200—64.)



1. A switch mechanism comprising arc shaped inclines, alternate inclines carrying contact plates, a contact member adapted to engage alternate pairs of inclines, a secondary actuator having a loose connection with the

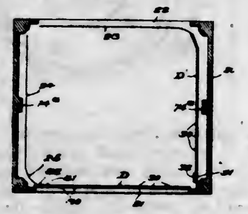
contact member and permitting limited independent movement of said member, an accelerating spring connected to the secondary actuator and to the contact member, and a primary actuator having a step by step connection with the secondary actuator.

1,352,605. AUTOMATIC TELEPHONE SYSTEM. EMIL JACOBSEN, Evanston, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed July 1, 1918. Serial No. 242,749. 17 Claims. (Cl. 179—18.)



1. In a telephone system, a line, an automatic switch for said line having a plurality of sets of wipers, trunk lines accessible to each set of wipers, means for making any of said trunk lines busy, means for causing said switch to test a pair of said trunk lines simultaneously, and if one of the tested trunk lines is busy for extending a connection from said line over the idle trunk.

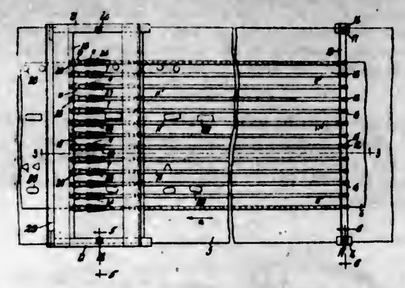
1,352,606. MULTIPLE SLIDING DOOR FOR USE IN AIRPLANE-HANGARS OR OTHER LARGE OPENINGS. HOWARD A. JOHNSON, Norfolk, Va. Filed July 11, 1919. Serial No. 310,000. 9 Claims. (Cl. 20—20.)



5. A flexible sliding door comprising a depressed supporting rail having two sections at an angle to each other and having a curved connecting portion, a movable cable disposed parallel to and along said depressed rail, and friction reducing bearing means for the cable adapted to travel between the cable and the outside of the said curved portion.

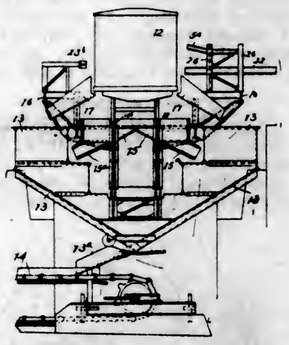
1,352,607. MECHANISM FOR GUIDING AND SPACING CANDY. CHARLES H. JONES, Medford, Mass. Filed June 9, 1919. Serial No. 302,729. 14 Claims. (Cl. 193—4.)

3. A device of the character described having, in combination, a conveyer-apron, a plurality of parallel guide members extending longitudinally of said conveyer-apron and flat resilient springs mounted upon said guide members adapted to yieldingly engage opposite sides of arti-



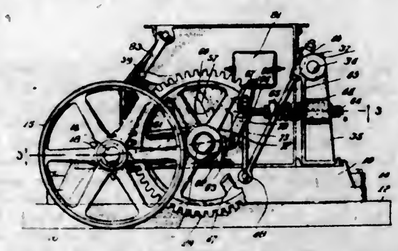
cles passing therebetween whereby said articles may be positioned relatively to each other.

1,352,608. BOX-CAR UNLOADER. ROBERT W. KALTENBACH, Cleveland, Ohio, assignor to The McMyler Interstate Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 18, 1918. Serial No. 212,515. 16 Claims. (Cl. 214—46.)



1. A box car unloader comprising a tilting platform adapted to be rocked so as to elevate first one end of a car and then the other, a receiving member for material discharged from cars run onto the platform, a delivery chute carried by the platform and movable relative thereto to and from the side door opening of a car positioned on the platform, and means supported by the platform and adapted to be run into one side of a box car for positively moving material in the car into the chute.

1,352,609. COAL-CRUSHER. MYRON A. KENDALL, Aurora, Ill., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill., a Corporation of Illinois. Filed Apr. 19, 1920. Serial No. 375,019. 11 Claims. (Cl. 83—14.)



1. A crusher comprising, in combination, a coöperating concave and crusher roll, the latter being carried by

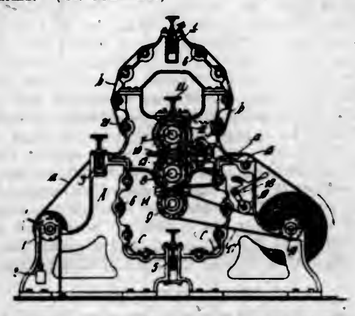
swinging supports, a toggle controlling the swinging of the said supports and a spring resisting the straightening of the toggle.

1,352,610. LOOM FOR WEAVING WIRE CLOTH. ALBERT S. KNAPP, Worcester, Mass., assignor to Wickwire Spencer Steel Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 24, 1919. Serial No. 326,061. 8 Claims. (Cl. 139—39.)



6. In a wire weaving loom, the combination with a warp shed and means for projecting a weft wire through said warp shed, of means for inclosing the advancing end of the weft wire during its passage through the warp shed.

1,352,611. PAPER-FINISHING MACHINE. FRANK C. LADD and FRANKLIN G. NEAL, Springfield, Mass., assignors, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 20, 1914. Serial No. 833,270. 27 Claims. (Cl. 101—23.)



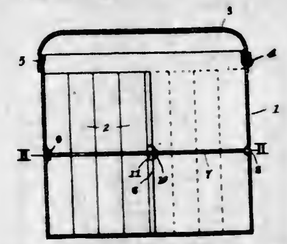
1. A finishing machine for impressing a cloth-surface pattern on paper comprising two rotatable pressure rolls therein, one of which is made of resilient material and the other of comparatively non-resilient material, and both of which are provided with smooth and unbroken peripheral surfaces, a cloth, means to feed the cloth and paper to be finished thereby between the rolls, mechanism to force the rolls one toward the other, all constructed and arranged so that the cloth, paper, and rolls may yield slightly one relatively to the others during the finishing operation.

1,352,612. SPRING STRUCTURE. ALFRED F. LANCE, Chicago, Ill. Filed Oct. 11, 1918. Serial No. 257,808. 1 Claim. (Cl. 267—60.)



A spring support for a box cover comprising a cylindrical housing for containing a helical spring, having an outwardly and downwardly extending hook at its top end to overlie the top edge of the box; a pin extending through the cylinder engaging the lower portion of the spring to hold it in place, and having a part projecting therefrom under the hook to engage the side of the box; and an open helical spring in said housing in contact with the bottom thereof, and held in place by said pin, and extending above the housing for engagement with the cover.

1,352,613. CIGARETTE-BOX. JAMES J. LANGAN, New York, N. Y. Filed Apr. 1, 1920. Serial No. 370,509. 3 Claims. (Cl. 206—41.)



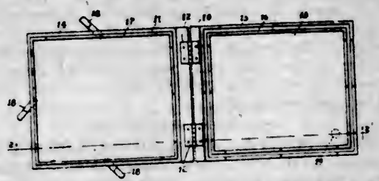
2. In a cigarette box, the combination with a follower fitted to slide in the storage space therein, of tensioned elastic strips extending across the box transversely of the opposite edges of said follower and at the opposite sides of the storage space in the box, and loops at one end of the box at opposite sides of the storage space, each of said elastic strips being overlapped upon itself, one end thereof being fastened to the end of the box opposite to that having the loops, the other end of said strip being fastened to the follower and the intermediate portion of said strip slidably connected with one of said loops on the box, whereby the tension on each strip, when cigarettes are stored between the follower and the end of the box having the loops, will be distributed throughout the length of said strip.

1,352,614. SUCTION MECHANISM FOR DENTAL PLATES. JOHN LEHNER, Pittsburgh, Pa. Filed June 17, 1919. Serial No. 304,783. 2 Claims. (Cl. 32—4.)



1. In combination with a dental plate of hard material having an aperture extending completely through the same and the wall of said aperture being provided with an inwardly extending perimetral slot, a soft rubber suction cup mounted in said aperture with its open top protruding from the surface of the dental plate and provided with a circumferential flange which engages said slot to anchor said cup in said dental plate, said flange being stiffened by the incorporation therein during the process of manufacturing the cup of metallic stiffening material, substantially as described.

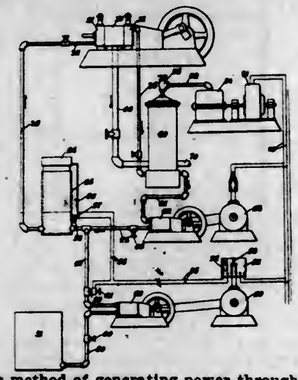
1,352,615. CASSETTE. HECTOR P. MACLAGAN, Park Ridge, Ill., assignor to McIntosh Battery and Optical Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 21, 1918. Serial No. 255,212. 10 Claims. (Cl. 250—34.)



10. In a cassette, the combination of two plates hinged together to lie adjacent each other in substantially parallel planes in closed position, and continuous rectangular frames conformed to nest in one another, a first

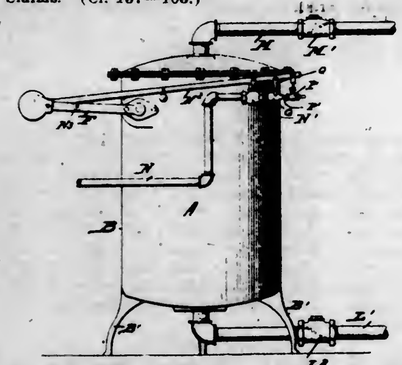
one of said frames being secured to one of said plates and another of said frames fitting said first frame being secured to the other of said plates and forming a light proof dry plate receptacle within said frames when the cassette is closed.

1,352,616. POWER-GENERATING SYSTEM. ALBERT J. MEIER, Glendale, Mo. Filed Mar. 21, 1913. Serial No. 756,033. 70 Claims. (Cl. 60—14.)



1. The method of generating power through the medium of a heat engine having a pressure chamber or cylinder, comprising, maintaining a motive fluid, containing energy in the form of heat, inside of the pressure chamber or cylinder, maintaining the walls of the pressure chamber or cylinder under an external pressure of a heat absorbing fluid to counteract the motive fluid pressure, and utilizing the heat absorbed by the heat absorbing fluid.

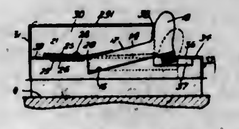
1,352,617. STEAM-TRAP. JOHN MOREHEAD, Detroit, Mich. Filed Oct. 29, 1919. Serial No. 334,335. 6 Claims. (Cl. 137—103.)



1. In a steam trap, a stationary chamber, a movable tank located within the stationary chamber, a rock-shaft journaled in the stationary chamber, a rock-arm secured to the rock-shaft from which the movable tank is suspended, means for conducting water of condensation to the movable tank, means for delivering steam or boiler pressure to the trap, a valve for controlling the delivery of steam to the tank, and means actuated through the movement of said tank whereby steam or boiler pressure may be admitted thereto.

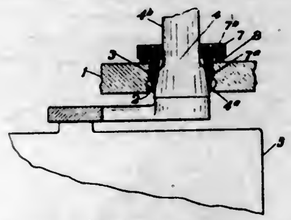
1,352,618. PLAYING ATTACHMENT FOR ZITHERS. FREDERICK M. NICKERSON, Everett, Mass., assignor to The Phonoharp Company, East Boston, Mass., a Corporation of Maine. Filed Mar. 12, 1919. Serial No. 282,154. 8 Claims. (Cl. 84—116.)

1. The combination with a zither, of a playing attachment therefor, comprising a hammer arranged above the strings, a pivot on which said hammer is fulcrumed near its rear end, a leaf spring normally bearing upon the



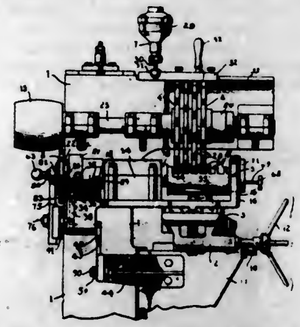
hammer on both sides of the pivot and holding the hammer head apart from its associated string or strings, substantially as set forth.

1,352,619. TERMINAL STRUCTURE FOR ELECTRIC BATTERIES. PAUL E. NORRIS, Pittsburgh, Pa., assignor to Westinghouse Union Battery Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Feb. 18, 1920. Serial No. 359,533. 5 Claims. (Cl. 204—29.)



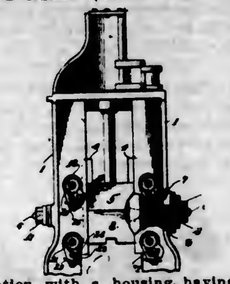
3. In an electric battery, an apertured cell cover, a terminal post passing through the aperture in said cover and comprising a tapered section adjacent said aperture and a cylindrical section above such tapered section, a follower screwed into said aperture and having a body the inner surface of which is tapered to engage with the tapered section of said post, the follower also comprising a head sleeved over the cylindrical portion of the post and overlapping the cell cover, and a gasket located between the cell cover and the head of said follower.

1,352,620. DOVETAILING-MACHINE. OSCAR ONSRUD, Chicago, Ill., assignor to The Marble and Shattuck Chair Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 22, 1920. Serial No. 367,703. 4 Claims. (Cl. 144—204.)



1. In a machine of the character described, automatic chuck tilting means comprising a forked dog pivoted centrally, a resilient compression member pivotally connected to the free end of the shank of said dog and with its opposite end mounted turnably at a point opposite the end of said shank and spaced therefrom, the arms of said dog being formed and adapted to successively engage suitably formed shoulders on the chuck when the latter is moved forward and backward relative to said dog.

1,352,621. ADJUSTABLE GUIDE FOR HAMMERS. STEPHEN PAUL, Lansing, Mich. Filed May 8, 1917, Serial No. 166,132. Renewed May 28, 1920. Serial No. 385,067. 1 Claim. (Cl. 78—87.)



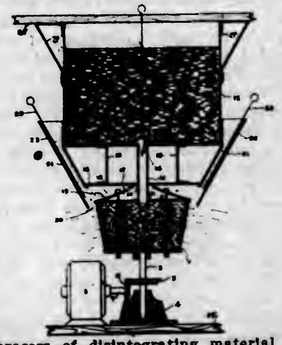
The combination with a housing having frames provided with pockets and rectangular openings, guides in the pockets of the housing frames for a reciprocable member in the housing, tapered members in some of the frame openings and having screw bolts protruding therefrom and adapted for adjusting said guides, and screw bolts carried by said guides and protruding from the other openings and adapted for locking said guides in adjusted positions, of means for adjusting all of said screw bolts, said means comprising washers having rectangular portions to engage in the rectangular openings of said frames, ratchet nuts rotatable in said washers and screwed on said bolts, spring pressed pawls on said washers normally engaging said ratchet nuts, and cam members on said washers adapted to be manually swung into engagement with said pawls to hold said pawls out of engagement with said nuts.

1,352,622. KEY-HOLDER. CHARLES L. PEIRCE, Jr., Pittsburgh, Pa. Filed Mar. 22, 1919. Serial No. 284,319. 3 Claims. (Cl. 59—97.)



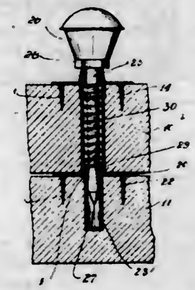
3. A key holder comprising two lengths of chain, a detachable connector for joining said lengths together, and dissimilar end stops for the opposite ends of the joined chains.

1,352,623. CENTRIFUGAL MACHINE AND PROCESS OF DISINTEGRATING MATERIAL. RAY P. PERRY, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Nov. 1, 1917. Serial No. 199,789. 6 Claims. (Cl. 83—91.)



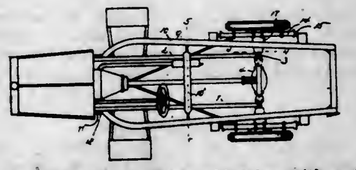
4. The process of disintegrating material which consists in projecting streams of molten material through an unobstructed cooling medium along different horizontal planes, the stream in each plane traveling at a higher velocity than a stream in a lower plane.

1,352,624. SAFETY WINDOW-LOCK. HENRY POLCEK, New York, N. Y. Filed Jan. 7, 1920. Serial No. 349,914. 1 Claim. (Cl. 292—175.)



In a sash fastener, the combination with meeting cross members of an outer and an inner window frame, a housing comprising a tubular receiver, adapted to pass through one of said cross members, having a pair of opposite disposed longitudinal guide-slots terminating into a pair of peripheral stop-recesses open at the extreme end of said tubular receiver, a fastening plate forming an integral part of said receiver, a conical neck extending opposite said receiver from said plate; a socket, having a similar fastening plate, adapted to be attached to said other cross member, a lock-bolt having a large hand knob at one end, adapted for turning and pulling said bolt, a conically shaped point provided at the other end of the bolt normally extending into said socket, a pin passing through said bolt and extending into said slots, a spring bearing against said pin and a seat provided in said neck, said spring causing said bolt to normally protrude with its pointed end into said socket, said bolt being prevented from leaving said socket when its knob is turned and said pin engages said peripheral recesses of said tubular receiver.

1,352,625. AUXILIARY FRAME AND SPRING ATTACHMENT. JOSEPH B. POSPESHIL, Detroit, Mich. Filed Mar. 24, 1919. Serial No. 284,597. 11 Claims. (Cl. 280—106.5.)

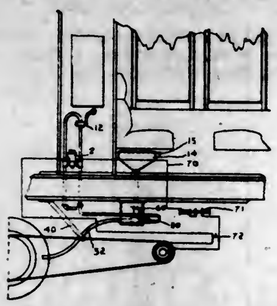


1. In a motor vehicle, the combination with a frame, an axle housing, and ground wheels at the end of said axle housing, of an auxiliary frame mounted upon said first-mentioned frame and axle housing independently of the ground wheels and movable independently of said first-mentioned frame.

1,352,626. SANDING DEVICE. HENRY POWER, Montreal, Quebec, Canada, assignor of one-half to William Halton, Montreal, Canada. Filed Dec. 31, 1919. Serial No. 348,564. 5 Claims. (Cl. 105—101.)

1. In railway passenger car equipment the combination with an axle, a dynamo, a pulley on the axle, a belt looped around the pulley, and an operative connection therebetween and the dynamo, of means for supplying sand to the contacting surfaces of the pulley and belt,

consisting of a receptacle for sand; an ejector, a sand delivering tube connecting the sand receptacle to the ejectof, an air nozzle with its discharge within the ejector,



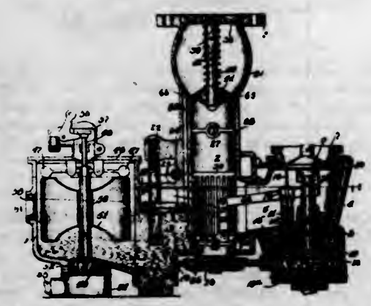
a sand projecting tube leading from the ejector at a point in alinement with the nozzle to a point in close proximity with the contacting surfaces of the pulley and belt; and means whereby compressed air is supplied to the nozzle.

1,352,627. PUMPING APPARATUS. JAMES P. RATIGAN, Los Angeles, Calif. Filed Jan. 17, 1920. Serial No. 352,209. 6 Claims. (Cl. 74—17.)



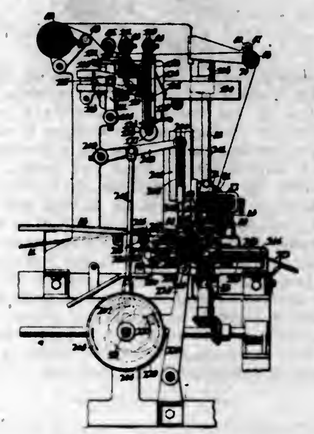
1. In pumping apparatus, a stem, a head at one end of the stem having a semicircular bottom and adapted to rest upon the upper face of a walking-beam, and a connection member at the other end of the stem provided with a grooved fork adapted to engage a cable.

1,352,628. CARBURETER. CHARLES L. RAYFIELD, Chicago, Ill., assignor to Findeisen & Kropf Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 15, 1916. Serial No. 120,381. 2 Claims. (Cl. 261—41.)



1. A carbureter comprising a mixing chamber, a throttle valve therein, a fuel supply nozzle adapted to supply fuel into the mixing chamber, an auxiliary mixing chamber above the throttle valve, a spider secured to the auxiliary mixing chamber, a stem secured thereto, an automatic valve adapted to cut off communication between the mixing and auxiliary mixing chambers, a stem secured thereto telescoping with the aforesaid stem, and a spring around said stems exerting a closing pressure on the automatic valve.

1,352,629. MACHINE FOR WRAPPING CONFECTIONS. JOSEPH PERCY REMINGTON, Philadelphia, Pa., assignor of one-half to Charles Day and John E. Zimmerman, doing business as Day & Zimmerman, Philadelphia, Pa. Filed Dec. 1, 1915. Serial No. 65,006. 16 Claims. (Cl. 93—5.)



1. In a machine of the class described, the combination of a row of envelopment tables with their enveloping mechanisms; means for supplying righted confections in parallel streams at one side of said row of envelopment tables and feeding them one by one at intervals into position upon each of said tables; means for feeding a suitable width of sheet wrapping material, subdividing it lengthwise into strips, and advancing said strips in parallel to the envelopment tables from the side opposite the confection supply; means for subdividing from said strips, transversely, pieces of suitable length for enveloping confections and feeding such pieces upon the envelopment tables, in position to receive the confections, during the intervals between the feed of the latter thereto; and means for bringing the enveloping mechanisms into action during the interval between the feed of successive confections to each table subsequently to the corresponding feed of wrapping material upon the tables.

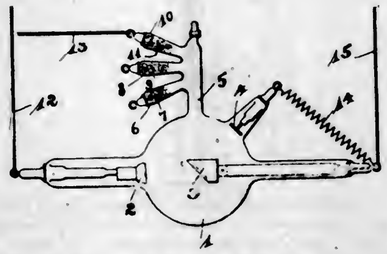
2. In a machine of the class described, the combination of a row of envelopment tables with their enveloping mechanisms; means for feeding to said tables wrapping material, in a width equal to the length of said row, from one side thereof, subdividing the material lengthwise into parallel strips corresponding to the tables as it approaches them, and subdividing from said strips, transversely, pieces of suitable length for enveloping confections and feeding such pieces in succession upon the tables; means for supplying righted confections at the other side of said row of envelopment tables in parallel streams directed to the intervals between the envelopment positions of said tables; means for feeding confections from said streams one by one lengthwise of the row of tables to the enveloping positions of adjacent tables in the row at intervals corresponding to the feeding of successive pieces of wrapping material to the tables; and means for bringing the enveloping mechanisms into action after each feed of confections to the enveloping positions of the tables.

3. In a machine of the class described, the combination of a row of envelopment tables with their enveloping mechanisms; means for feeding a suitable width of tin foil, subdividing it lengthwise into strips, and advancing said strips in parallel to one side of the row of tables; and means for subdividing from said strips, transversely, pieces of suitable length for enveloping confections and feeding such pieces upon said envelopment tables in due relation to the action of their enveloping means.

4. In a machine of the class described, the combination of a row of envelopment tables with their confection-enveloping mechanisms; means for feeding to said tables tin foil, in a width equal to the length of said row, from one side thereof; means for applying adhesive to said tin foil at transverse intervals corresponding to the enveloping positions of the tables and at longitudinal intervals corresponding to the length of material required to envelop a confection; means for pressing stickers against the foil in contact with the adhesive; means for subsequently subdividing the tin foil lengthwise into parallel strips corresponding to the tables as it approaches them and for subdividing from said strips, transversely, pieces of suitable length for enveloping confections with the stickers centered thereon and feeding such pieces in succession upon the tables.

5. In a machine of the class described, the combination of a row of envelopment mechanisms; means for feeding tin foil sidewise to said row of mechanisms in width corresponding to the length of the row; means for placing adhesive upon the surface of said tin foil at points corresponding to the centers of division thereof suitable to afford separate envelopment wrappers for each of the enveloping mechanisms; means for subdividing said tin foil accordingly, both longitudinally and transversely, and feeding the subdivisions to the envelopment mechanisms; means for pressing stickers against tin foil in the region of each application of adhesive to be carried therewith to the envelopment mechanisms.

1,352,630. X-RAY TUBE. THOMAS B. RIDER, Los Angeles, Calif., assignor of one-half to Adolphe Danziger, Los Angeles, Calif. Filed Dec. 30, 1918. Serial No. 268,940. 2 Claims. (Cl. 250—35.)



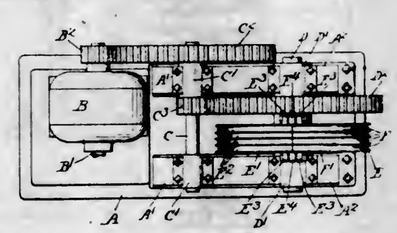
1. In an X-ray tube, a cluster of a suitable number of regulators each regulator containing chemicals of different strength from the chemicals in the others.

1,352,631. RATCHET MECHANISM. CHARLES W. RIPSCH and JAMES C. DAWLEY, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 25, 1919. Serial No. 319,642. 17 Claims. (Cl. 74—16.)



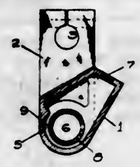
1. In a device of the character described, a toothed wheel, an operating member mounted for movement about the axis of said toothed wheel and having a guideway tangential to said wheel, a pawl slidably mounted in said guideway and having teeth to engage said toothed wheel, said pawl being so arranged that the movement of said operating member in one direction will cause said pawl to be gripped between said guideway and said toothed wheel with a wedging action, and said pawl also being capable of movement about a longitudinal axis to adjust its teeth with relation to the teeth of said toothed wheel.

1,352,632. AUTOMATIC TRACTION-HOIST. CLYDE P. ROSS, Kenilworth, Ill., assignor to Roberts & Schaefer Company, Chicago, Ill., a Corporation of Illinois. Filed July 24, 1919. Serial No. 312,979. 9 Claims. (Cl. 187—20.)



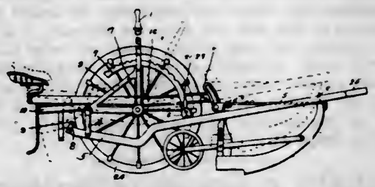
1. In a hoisting drum, a radially thin removable hoisting drum rim comprising a plurality of engaging rim sections and means for separately removing them.

1,352,633. SPRING-SHACKLE. FRANK P. SAWDERS and JAMES G. MURRAY, Pittsburgh, Pa. Filed Dec. 2, 1919. Serial No. 341,951. 2 Claims. (Cl. 267—54.)



1. A spring shackle for the purpose set forth, comprising a bifurcated member the forked portion of which is adapted to receive the end of a spring, the body portion thereof below the fork being hollow to form a lubricating reservoir, and a bearing sleeve extending through the base of said reservoir and adapted to fit over a supporting member, said sleeve being provided thereabout with spaced feed openings, said reservoir surrounding said sleeve and communicating therewith through said openings, the major portion of said reservoir being disposed above said sleeve so that a lubricant therein will have a gravity feed through said openings.

1,352,634. LIFTING DEVICE FOR PLANTERS. EMMANUELL HENRY SNYDER, Davenport, Iowa. Filed Mar. 6, 1916. Serial No. 82,401. 3 Claims. (Cl. 97—86.)



1. In an implement frame, a wheel supported frame, a runner frame pivoted thereto, an axle, a tongue so positioned as to raise the runner frame by its upward movement, having a portion thereof bent downwardly and then

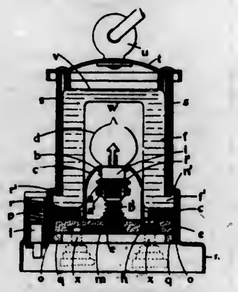
upwardly, said portion being directly beneath said axle, means for raising the rear end of said tongue, a seat to the rear of said axle and pivotally related thereto, the rear end of said tongue being operably related to said seat in such manner as to raise the seat when the rear end of said tongue is raised.

1,352,635. TRACTOR-WHEEL. WILLIAM S. STOTHOFF and CHARLES A. PSILANDER, Easton, Pa., assignors to William Wharton Jr. & Co., Incorporated, Easton, Pa., a Corporation of Pennsylvania. Filed Sept. 9, 1919. Serial No. 322,702. 3 Claims. (Cl. 305—13.)



1. A wheel of the type recited comprising the combination with floating pads or track-laying units, of a pair of skeleton disks having hub-carrying elements and rim elements integrally united by fluted webs or spokes, bolts connecting the rims and constituting journals, rollers mounted thereon and coöperating with the pads, and eyelet bushings in the rims to accommodate the bolts and constituting thrust provisions for the rollers.

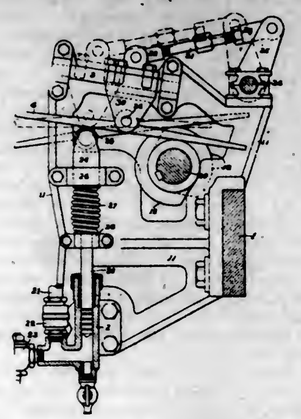
1,352,636. MINER'S ELECTRIC LAMP. THEODORE STRETTON, Cardiff, Wales, and JOHN WILLIAM JONES, Cannock, England, assignors to Haslam & Stretton Limited, Cardiff, Wales. Filed Aug. 11, 1919. Serial No. 316,793. 6 Claims. (Cl. 240—17.5.)



1. An electric lamp comprising in combination an incandescent lamp, a socket within which the plug of the said lamp is fitted, a cap or socket inclosure within which the plug of the said lamp is freely mounted, a spiral spring surrounding the socket and connecting the socket to the upper end of the said cap or socket inclosure, a contact plate beneath the said cap or socket inclosure and the socket, a spring disposed between one of the contacts upon the said contact plate and the end of the lamp plug, and means for connecting the cap or socket inclosure to the other of the contacts upon the contact plate, substantially as described.

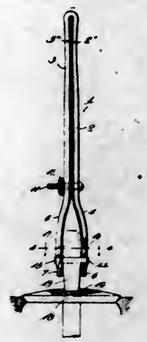
1,352,637. FUEL-FEEDING DEVICE FOR OIL-ENGINES. HENRY W. SUMNER, Seattle, Wash. Filed July 3, 1918. Serial No. 243,213. 20 Claims. (Cl. 123—140.)

1. An oil feeding mechanism comprising a pump, a driving member, a lever interposed between said driving member and the pump and forming the driving connection therebetween, and means for moving the fulcrum of said



lever in a direction parallel to its position at one extreme to interrupt the driving connection between the pump and the driving member.

1,352,638. VALVE-GRINDING TOOL. EDDIE G. THOMPSON, Devils Lake, N. D. Filed Oct. 2, 1919. Serial No. 327,860. 3 Claims. (Cl. 51—4.)

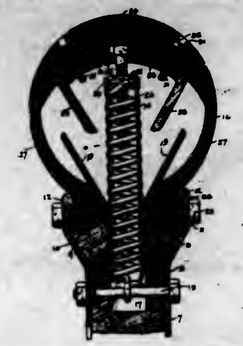


1. A valve grinding tool comprising a pair of resilient legs having their free ends movable toward and from each other, the free extremities of the legs being shaped to engage in the spanner recesses of a valve, a screw driver blade disposed between said legs, co-acting means between the blade and the legs to prevent rotation of the former and also to permit it to be positioned to extend beyond the extremities of the legs for engagement with a kerf in a valve, or reversed and positioned in the space between the legs in inoperative position, and means to retain the blade in either of said positions.

1,352,639. VEHICLE-WHEEL. EMORY A. THOMPSON, Hope, Ark. Filed Apr. 5, 1920. Serial No. 371,298. 7 Claims. (Cl. 152—8.)

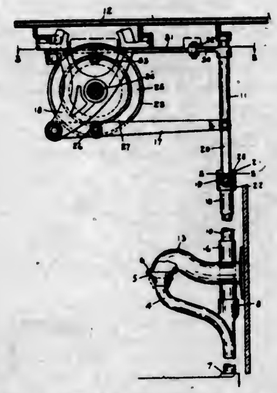
7. A vehicle wheel comprising a felly, a rim carried by the felly, outwardly extending flanges formed on the rim, a tire section surrounding the rim, inwardly extending flanges formed on the tire section and disposed inwardly of the flanges on the rim, tension springs uniting the felly

and tire section, and shock absorbing pads arranged intermediate the springs and adapted to be engaged by the tire



section flanges when the tension springs are compressed beyond a certain point.

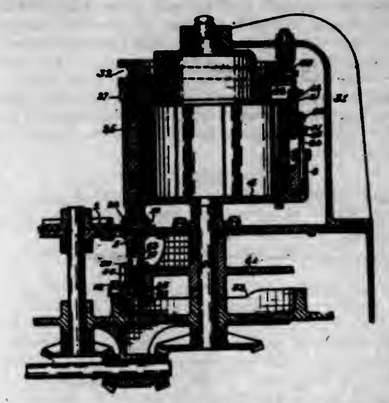
1,352,640. DRAIN-PIPE FOR LIQUID-DISPENSERS. CHARLES A. TRIPP, Wilmington, Del., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind., a Corporation. Original application filed Oct. 22, 1917, Serial No. 196,854. Divided and this application filed May 5, 1919. Serial No. 294,938. 9 Claims. (Cl. 137—111.)



9. In a liquid dispensing device, the combination with a discharge nozzle, of a drain pipe for said nozzle, a shaft upon which said drain pipe is mounted, cam means for rocking said shaft to swing the drain pipe in one direction so as to bring it into alinement with the end of the discharge nozzle and then swing the drain pipe to move it in the opposite direction, whereby the free end of said nozzle will be out of alinement with said drain pipe, and means to elevate said drain pipe when in said alinement, whereby the free end thereof will enter into the end of the discharge nozzle.

1,352,641. MACHINE FOR APPLYING COMPOUND TO CAN-TOPS. NELSON TROYER, Seattle, Wash., assignor of one-half to Seattle-Astoria Iron Works, Seattle, Wash., a Corporation of Washington. Filed Nov. 20, 1918. Serial No. 263,246. 8 Claims. (Cl. 113—80.)

1. A device for applying compound to can tops comprising a revolving head and means for carrying can tops about with said head and for revolving them upon their axes, compound applying pumps having reciprocating plungers, discharge tips adapted to discharge into said caps, and means for operating said pumps comprising a slide mounted in guides carried by the head and having a lateral arm, a rod forming an extension of the pump plunger, tappets carried by said rod and adjustable in position thereon and adapted to be engaged by the arm



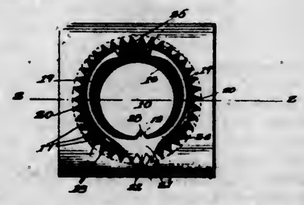
of said slide to thereby actuate the pump, a cam follower carried by each slide and a stationary cam track engaged by said cam followers.

1,352,642. SPACING-CLIP. WILLIAM E. WHITE, Minneapolis, Minn. Filed Dec. 3, 1919. Serial No. 342,068. 4 Claims. (Cl. 72—122.)



1. A spacing clip, comprising a shank having at one end an offset portion forming a recess adapted to receive a reinforcing bar and a hook at its opposite end adapted to engage an adjacent duplicate clip at the junction of its shank and bar-receiving recess, and means at the extremity of the portion constituting the bar-receiving recess for engaging the shank of an adjacent clip, substantially as described.

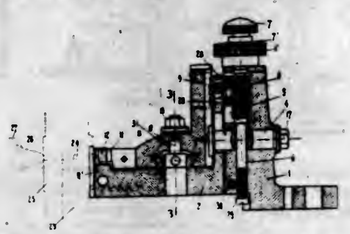
1,352,643. NUT-LOCK. JOHN A. YOUNG, Belair, Md. Filed June 3, 1920. Serial No. 386,241. 4 Claims. (Cl. 151—28.)



1. An improved nut lock comprising in combination with a bolt having a longitudinal groove, a nut having

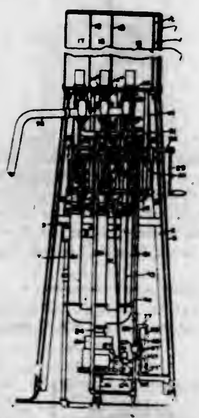
an internally screw threaded opening to admit the bolt and also having an annular chamber on its inner face surrounding the bolt opening and ratchet teeth on the interior of said annular chamber, and a split ring having an inwardly tapering key to enter the groove of the bolt for limited lateral pivoting movement and having one or more teeth at its intermediate portion opposite to said key to engage the teeth of the nut, the end portions of the ring being provided with right angularly extended lugs to permit said ends to be contracted for applying and removing the ring.

1,352,644. TYPE-CASTING MACHINE. ANGELO ALBE, Turin, Italy. Filed Dec. 29, 1919. Serial No. 347,921. 3 Claims. (Cl. 199—80.)



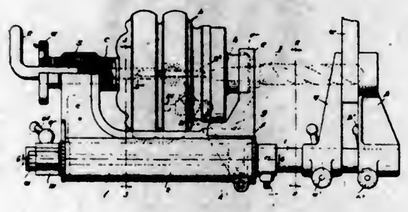
1. In a type casting machine, a part adapted to be mounted on the machine in front of the nozzle for the molten metal, a support arranged on said part to move in a direction parallel with the character face, a member mounted on said support to move in a direction parallel with the character face and perpendicular to the first named direction, means for clamping the type matrix on said member, means for shifting said support and member and means adapted to give a reading of the position of the matrix with regard to stationary parts of the machine.

1,352,645. LIQUID-VENDING MACHINE. DAVID W. ANTHONY, Minneapolis, Minn., assignor to Anthony Liquid Vending Machine Co., Minneapolis, Minn., a Corporation of Minnesota. Filed July 11, 1918. Serial No. 244,356. 27 Claims. (Cl. 221—100.)



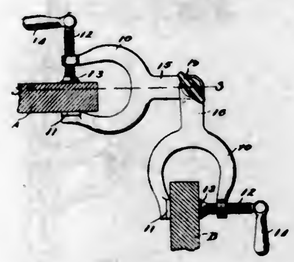
1. The combination, with a liquid supply tank, of a dispensing tank having a discharge opening, an inlet pipe leading from said supply tank to said dispensing tank, a valve normally closing the passage through said inlet pipe, mechanism for admitting air pressure to said supply tank and simultaneously opening said valve, and an overflow device provided with means mounted to open said supply tank to the exhaust and close said valve when a predetermined quantity of liquid has entered said dispensing tank.

1,352,646. APPARATUS FOR DRILLING, REAMING, AND COUNTERSINKING. OREN F. BALTSLEY, Hagerstown, Md., assignor to The Liberty Tool Company, Baltimore, Md., a Corporation of Maryland. Filed Apr. 3, 1919. Serial No. 287,259. 18 Claims. (Cl. 77—82.)



1. A portable apparatus of the character described comprising a motor and a tool driven thereby, a main frame member or bar extending substantially parallel with the axis of the tool and having a feed foot at one end extending substantially at right angles to the frame member, a tool support slidably mounted on the bar, and a cylinder and piston, one connected with the tool support and the other with the frame member with means for supplying pressure fluid for effecting a relative movement between the tool support and frame member and consequently between the feed foot and tool, substantially as described.

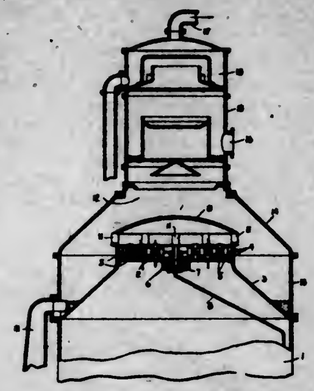
1,352,647. DOUBLE CLAMP. GEORGE A. BENTON, Willow Springs, Mo., assignor of one-half to Ottis A. McDill, Willow Springs, Mo. Filed May 21, 1920. Serial No. 383,161. 1 Claim. (Cl. 144—304.)



A sectional clamp, each section including an outer U-shaped frame having a bearing member at one side and an adjustable clamping element through its opposite side opposing the said bearing member, and a shank at the outer end of which the frame is disposed, the inner ends of the two shanks being pivoted in overlapping relation and having relatively engaging ribs and recesses around their pivot, and a clamping wing bolt forming the pivot between the shanks whereby the two sections may be readily adjusted and rigidly held.

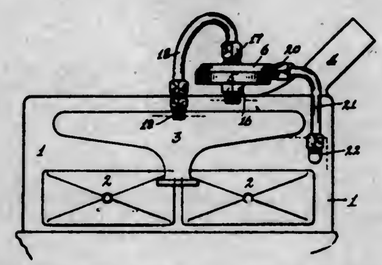
1,352,648. RECTIFIER AND CONDENSER. HERMAN E. BEYER, New York, N. Y., and WILLIAM G. HALL, Honolulu, Hawaii, assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 25, 1919. Serial No. 273,200. 2 Claims. (Cl. 127—18.)

1. A combined rectifier and condenser, comprising a vacuum pan, a cone sheet above the same, a rectifier supported by said cone sheet over the vacuum pan, means for draining the rectifier back to the vacuum pan, a crown sheet spaced above the vacuum pan and acting as a baffle to intercept cooling liquid, a casing extending above the rectifier, a condenser supported by said casing above the rectifier, means for draining the said condenser casing, baffles in the condenser forming chambers, means



for admitting circulating cooling liquid to the condenser and means for draining the upper baffle chamber of the condenser.

1,352,649. DEVICE FOR SUPPLYING WATER-MOISTURE TO INTAKES OF INTERNAL-COMBUSTION ENGINES. GEORGE H. BLAKE, Alameda, Calif. Filed Dec. 1, 1919. Serial No. 341,719. 2 Claims. (Cl. 123—25.)



1. A device for supplying moisture to the intake of internal combustion engines comprising a shell consisting of interfitting base and cap members, the base member having an inlet, and the cap member having concentric spaced ribs on its inner surface, the spaces between the ribs intercommunicating and having also an inlet to one end of said inter-rib space and an outlet from the other end thereof; a porous diaphragm confined between the base and cap member and resting on the spaced ribs in the latter member; a connection between the water-system of the engine and the inlet of the base member; a connection between the cylinder intake of the engine and the outlet of the cap member; and a connnection between the valve-tappet chamber of the engine and the inlet of the cap member.

1,352,650. BOTTLE-CLOSURE. CASPER E. BLANCHARD, Chicago, Ill. Filed Dec. 10, 1919. Serial No. 343,779. 4 Claims. (Cl. 215—69.)



1. The combination with a cylindrical bottle neck of a cylindrical rubber closure cemented to said neck, said closure having interior walls tapering toward the central axis of the closure to form a circular valve seat, said closure having an integral cap, and integral hollow lugs carried by said cap, said lugs having recesses extending above the upper face of the cap.

1,352,651. SHOCK-ABSORBER. GEORGE G. F. BOSWELL, Indianapolis, Ind. Filed Nov. 21, 1919. Serial No. 339,585. 7 Claims. (Cl. 267—45.)



2. The combination with a vehicle body spring, and a perch hanger, of a shock absorber construction including shackle plates pivoted at one end to said perch hanger and extending vertically thereabove, a spring supporting shackle pivoted at one end to the upper ends of the shackle plates and at a point vertically over the pivot end of the perch hanger, the opposite end thereof being pivoted to the body spring, and a shock absorbing spring connected to the body spring, said shock absorbing spring having a looped portion for connection with said shackle and a bowed portion for normally holding said shackle plates in vertical position and for resisting movement of the body spring.

1,352,652. CURTAIN-HANGER. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 15, 1918. Serial No. 262,633. 5 Claims. (Cl. 156—22.)

1. In a curtain hanger, the combination with end brackets each having a rod-supporting socket formed with a recess in a wall thereof, of a curtain-rod having secured to each end thereof an extension-strip formed with a transversely elastic tongue, and said tongue having a protuberance thereon adapted to snap into said recess when said extension-strip is entered into said socket.

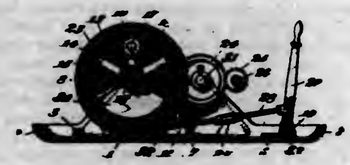
2. In a curtain hanger, the combination with end brackets each having a rod-supporting socket formed with a recess in a wall thereof, of a curtain-rod having secured to each end thereof a thin steel extension-strip that is slitted lengthwise to provide an integral transversely elastic tongue, and said tongue having a protuberance thereon adapted to snap into said recess when said extension-strip is entered into said socket.

3. In a curtain hanger, the combination with end brackets each having a rod-supporting socket formed with a recess in a wall thereof, of a curtain-rod having secured to each end thereof a thin steel extension-strip that is slitted lengthwise to provide an integral transversely elastic tongue having a free outer end, and said tongue having a protuberance thereon adjacent to its free end adapted to snap into said recess when said extension-strip is entered into said socket.

4. In a curtain hanger, the combination with end brackets each having a rod-supporting socket formed with a recess in a wall thereof, of a curtain-rod having secured to each end thereof an extension-strip formed with a transversely elastic tongue, said tongue having a protuberance thereon coöperating with said recess to yieldably lock the curtain-rod in the socket, and said protuberance being steeper on the side thereof remote from the outer end of said extension-strip than on the side thereof nearest the outer end of said extension-strip.

5. In a curtain hanger, the combination with end brackets each having a rod-supporting socket formed with a recess in its front wall, of a curtain-rod having secured to each end thereof a thin steel extension-strip formed with an integral longitudinally extending tongue, said tongue having a protuberance thereon adjacent to its free end coöperating with said recess to yieldably lock the curtain-rod in the socket, and said protuberance being steeper on the side thereof remote from the outer end of said extension-strip than on the side thereof nearest the outer end of said extension-strip.

1,352,653. MINE-HAUL. HERBERT V. BROWN, Cherry Tree borough, Pa. Filed Nov. 12, 1919. Serial No. 337,448. 5 Claims. (Cl. 254—186.)



1. A mine haul comprising a winding drum, an internal gear secured thereto, a loose internal gear of different diameter secured to and mounted on the same shaft, an external gear provided with two pinions of different diameters mounted thereon, each adapted to mesh with one of the internal gears aforesaid, brake bands adapted to control each of said internal gears, and means for driving said external gear, whereby the drum can be rotated at normal speed or at any lesser speed as may be desired.

1,352,654. BANJO. NORMAN BROWN, Muenster, Tex. Filed June 8, 1920. Serial No. 387,308. 1 Claim. (Cl. 84—293.)

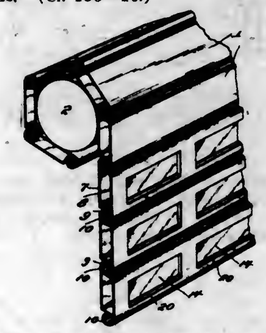


A musical instrument of the banjo type having a neck or finger board consisting of separable sections and means for detachably connecting the adjoining ends thereof, said means consisting of a pin having a cross sectionally irregular body portion seated in the extremity of one section and provided with a threaded pin for engagement with the socket in the adjacent extremity of the adjoining section.

1,352,655. METHOD OF PRODUCING HYDROCYANIC ACID. GUY H. BUCHANAN, Roselle, N. J., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Nov. 12, 1919. Serial No. 337,468. 5 Claims. (Cl. 23—1.)

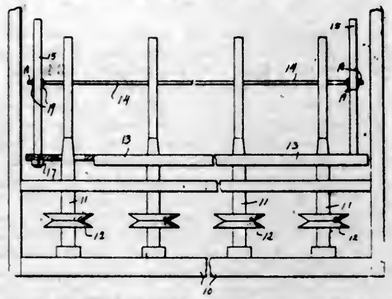
1. The process of producing hydrocyanic acid from a crude cyanid containing substantial quantities of calcium chlorid, lime, and sodium chlorid which consists in preparing a mixture of refrigerated dilute solutions containing a mineral acid and said crude cyanid, there being more than sufficient acid present to react with all the impurities; and passing said mixture in countercurrent against a source of heat whereby the gas dissolved in said solution is driven off; and suitably recovering said evolved gas, substantially as described.

1,352,656. FLEXIBLE CURTAIN. JOHN CAHILL, Norfolk, Va. Filed Nov. 25, 1919. Serial No. 340,557. 14 Claims. (Cl. 156—16.)



14. A slat unit for flexible curtains comprising a wall section having end coils projected in opposite directions, one of said coils being developed from the plane of the wall and the other coil being developed from a right angle extension of the wall.

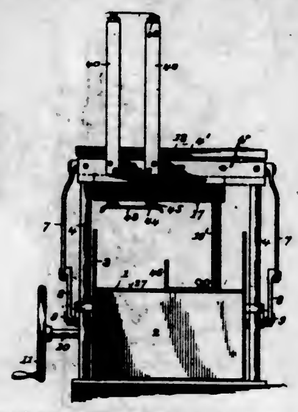
1,352,657. SEPARATOR FOR SPINNING-FRAMES. SAMUEL CARD, East Providence, R. I. Filed Feb. 26, 1920. Serial No. 361,391. 4 Claims. (Cl. 118—11.)



1. In a spinning machine, the combination with a series of spindles and a vertically traversing ring rail through which the spindles pass, of a separator comprising a longitudinally extending rod disposed to one side of the spindles and extending parallel to the ring rail, and supports for the rod mounted upon the ring rail and engaging the opposite ends of the rod.

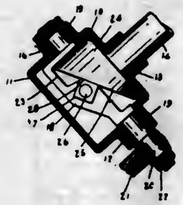
1,352,658. SLICING-MACHINE. CHARLES A. DIES, Chicago, Ill. Filed Jan. 31, 1920. Serial No. 355,498. 15 Claims. (Cl. 17—24.)

1. In a slicing machine, the combination of a supporting bed, a slicing carriage arranged transversely of said base, means for imparting movement in a vertical plane to said carriage, means for confining said carriage to movement in a vertical line, a slicing blade mounted



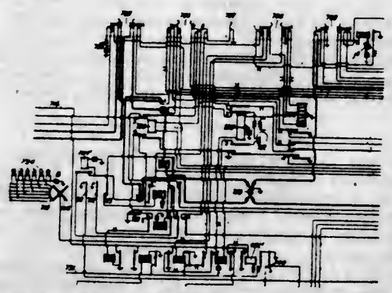
for reciprocation in said carriage, and means for imparting rapid reciprocation to said blade.

1,352,659. STEERING DEVICE. ALFRED E. DRAKE, Indianapolis, Ind., assignor to Drake Manufacturing Company, Indianapolis, Ind., a Corporation. Filed May 28, 1920. Serial No. 385,059. 4 Claims. (Cl. 74—79.)



4. In a mechanism, a rotatable cam having a cam surface obliquely disposed to the axis of rotation, an oscillatably supported stirrup straddling said cam, and a pair of bearing means extending transversely of the stirrup each including a flat surface for engagement with said cam surface, each of said bearing means being swiveled and positioned upon opposite sides of the stirrup.

1,352,660. TELEPHONE-EXCHANGE SYSTEM. ALFRED H. DYSON, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 8, 1915. Serial No. 65,804. 104 Claims. (Cl. 179—27.)



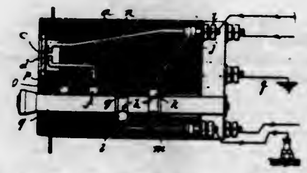
1. In a telephone exchange system, a line selector switch, a plurality of lines terminating thereon, a connecting circuit selector switch individual to said line switch, a plurality of groups of connecting circuits terminating thereon and extending to a plurality of operators, means for simultaneously starting said line and connecting circuit switches, and means including said switches for extending a line to an idle connecting circuit in a group leading only to an operator then idle.

1,352,661. SIGN. SAMUEL GIBBY, Boston, Mass. Filed June 24, 1918. Serial No. 241,461. 2 Claims. (Cl. 40—133.)



1. The combination with a casing and light emitting means in said casing of a stencil plate and a semi-transparent plate coextensive therewith, both plates forming part of a wall of said casing, and an apertured casing wall outside of said plates light-transmitting, differently colored closing means for said apertures, adapted to carry indicating marks, movable covering means intermediate said closing means, and adapted to selectively and concealingly engage with said closing means.

1,352,662. IGNITION-TROUBLE FINDER. LEE B. GREEN, Detroit, Mich., assignor to The Federal Machine Products Co., Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 17, 1919. Serial No. 277,468. 10 Claims. (Cl. 175—183.)



1. An ignition trouble finder for an internal combustion engine, comprising means for indicating trouble in the wires leading from the distributer or back of the same, means for indicating the failure of a circuit through any one of the plugs and capable of separately testing each plug, and means for successively cutting out the plugs to make apparent a missing of any of the cylinders.

1,352,663. FISHPOLE-SUPPORT. CHARLES A. D. HAFNER, Des Moines, Iowa. Filed July 8, 1919. Serial No. 309,399. 4 Claims. (Cl. 248—37.)



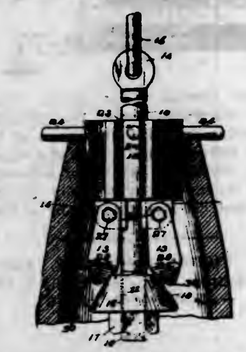
3. In a device of the class described a substantially cylindrical socket of resilient material having a contracted portion adjacent to one end, registering recesses in the last mentioned end, and an elongated opening adjacent to the other end whereby a comparatively narrow resilient band may be formed adjacent to the last described end, spaced outwardly extending ears fixed to the cylinder at either side of one of said recesses, said ears having alined openings therein, and a rod having one end pivoted in said openings whereby said rod may be swung from position with its longitudinal axis parallel with the longitudinal axis of the socket to position within said recesses.

1,352,664. LIQUID-DISPENSING PUMP. WILLIAM T. HATMAKER, Dayton, Ohio, assignor to The Huffman Recording Pump Company, Dayton, Ohio, a Corporation of Ohio. Continuation of application filed Feb. 27, 1919, Serial No. 278,491. This application filed Sept. 8, 1919. Serial No. 322,249. 13 Claims. (Cl. 221—108.)



1. In a liquid dispensing apparatus, a cylinder having a discharge opening at one end, a piston mounted in said cylinder, a conduit to connect said discharge opening with said cylinder on the intake side of said piston, and thereby permit the liquid remaining in the cylinder after an incomplete stroke of the piston, to be returned to the intake end of the cylinder, and means to control the passage of liquid through said conduit.

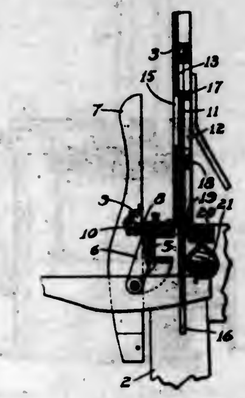
1,352,665. LIFTING-DOG. MAURICE F. HEALY, Watertown, Mass. Filed July 19, 1919. Serial No. 312,088. 9 Claims. (Cl. 294—89.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A lewis, including a lifting rod, a spreader on the lower end of the rod, an elongated sleeve loosely mounted on the rod and slidable longitudinally thereof, means carried by the sleeve for suspending the same in the mouth of a cavity, and arms connected to the lower end of the sleeve and actuated by the spreader to engage the walls of the cavity.

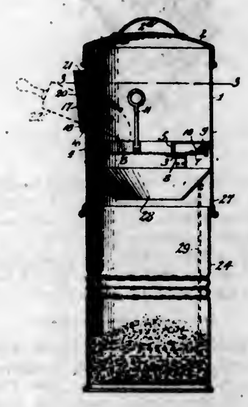
1,352,666. AMUSEMENT APPARATUS. JAMES I. HOLCOMB and JACOB F. HOKE, Jr., Indianapolis, Ind., assignors to Holcomb and Hoke Manufacturing Company, Indianapolis, Ind., a Corporation. Filed Feb. 25, 1919. Serial No. 279,146. 7 Claims. (Cl. 46—61.)

1. In an amusement apparatus the combination with a plurality of vertically disposed pins pivoted adjacent their longitudinal center so that their lower ends when struck by a pin ball will move upwardly when pivoting, and a back board having openings therethrough, of numeral carrying means operable by the lower portion of



said pin when pivoted for bringing the numerals into registration with said openings in the back board.

1,352,667. ASH-SIFTER. JOHN A. KESSEL, Buffalo, N. Y. Filed Mar. 6, 1917. Serial No. 152,530. 4 Claims. (Cl. 83—60.)

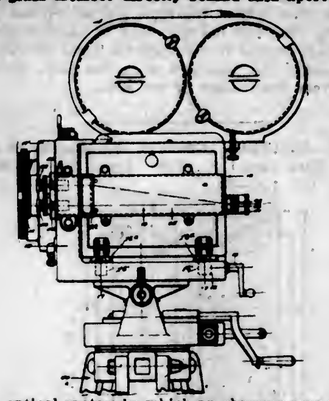


1. An ash sifter comprising a cylindrical sifting chamber having its axis arranged vertically and provided with internal supports, and a circular sieve adapted to rest on said supports and to oscillate horizontally thereon and having a part of its side flattened to form a space between the sieve and the wall of the sifting chamber.

1,352,668. DOUBLE-EXPOSURE MECHANISM FOR MOTION-PICTURE CAMERAS. JOHN E. LEONARD, Los Angeles, Calif, assignor to The National Motion Picture Camera Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 20, 1917. Serial No. 163,497. 8 Claims. (Cl. 88—16.6.)

1. In a motion picture camera; an aperture plate having two openings corresponding to different pictures on a standard strip of film; two lenses; means for adjusting the position of each lens with regard to one of said open-

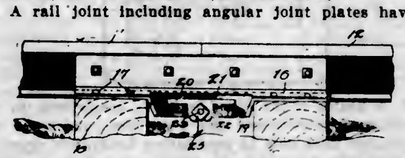
ings; a ground glass member; means for placing said ground glass member directly behind said aperture plate;



and an optical system by which an observer sees the images produced by the two lenses superimposed on each other.

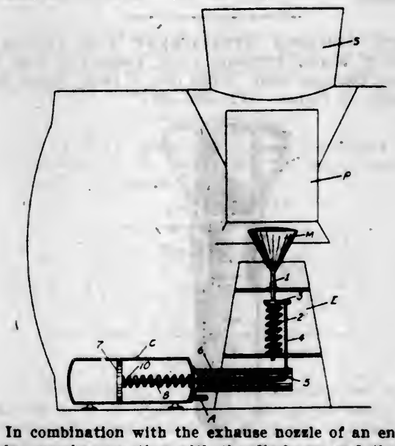
1,352,669. RAIL-JOINT. DOUGALD MCEACHERN, Nelson, British Columbia, Canada. Filed Mar. 14, 1919. Serial No. 282,743. 4 Claims. (Cl. 238—186.)

2. A rail joint including angular joint plates having



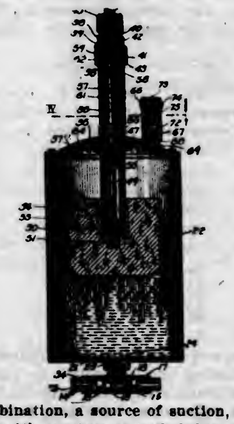
depending side brackets intermediate their ends, provided with slotted openings, a wedge extending horizontally between the joint plate brackets and through said openings, and means acting to continuously urge said wedge inwardly and to take up wear, including a spring engaging a portion of one of the joint plates, and a bolt connected with and extending from the said spring and engaging a portion of the wedge, as described.

1,352,670. DRAFT-REGULATOR. ELBERT MCKIERNAN, Fort Madison, Iowa. Filed Sept. 13, 1919. Serial No. 323,536. 1 Claim. (Cl. 162—7.)



In combination with the exhause nozzle of an engine, a valve member coacting with the discharge end thereof, a rod depending from the valve member and supported for endwise movement within the nozzle, a stop fixed to the rod, a spring engaging the stop to constantly urge the rod and valve member in a direction away from the nozzle, a cylinder positioned to one side of the exhause nozzle, a tubular member extending within the nozzle, a piston mounted for rectilinear movement within the cylinder, a rod coacting with the piston and extending exteriorly of the cylinder and within the tubular member, a guide roller carried by the inserted end portion of the tubular member, and a flexible member secured to the stop carried by the first named rod and passing around the guide roller into the tubular member, said flexible member being also secured to the outer end portion of the piston rod.

1,352,671. APPARATUS FOR SUPPLYING FUEL TO HYDROCARBON-MOTORS. GEORGE B. MAEGLY, Kansas City, Mo., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 1, 1915. Serial No. 59,122. 16 Claims. (Cl. 158—36.)



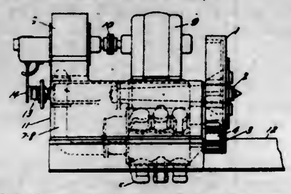
1. In combination, a source of suction, a float tank connected therewith, a storage tank below the level of said float tank, and connected with said float tank, a float in said float tank, a valve operated by said float and controlling the connection of said source of suction, and a second valve also controlling the connection of said source of suction, said second valve closing with said first named valve, but remaining closed until after said first named valve has opened and moved a predetermined amount.

1,352,672. GEE-STRAP. CLARK WILFRED MARTIN, North Union township, Fayette county, Pa., assignor of one-half to Asa L. Martin, North Union township, Fayette county, Pa. Filed Oct. 16, 1918. Serial No. 258,313. 2 Claims. (Cl. 132—25.)



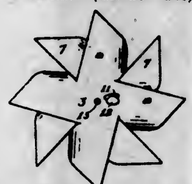
1. A gee strap adapted to serve as the holding strap of a hat comprising two separable sections, the extremities of one section being adjustably secured to the extremities of the second section, the strap when the sections are connected being substantially continuous, the central portion of one of the sections having a longitudinally disposed slit, the portions of said section at opposite sides of the slit providing branches to engage above and below the chin of the wearer.

1,352,673. MACHINE-TOOL CONTROL. WALDEMAR F. MAYER, Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed June 27, 1919. Serial No. 307,161. 11 Claims. (Cl. 82—2.)



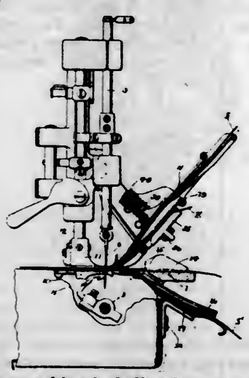
4. A roll lathe control, comprising the combination of a face plate, a prime mover, a hydraulic transmission interposed between the prime mover and face plate and comprising a reversible variable fluid delivery pump, a hydraulic engine, and their complemental fluid connections, and means for controlling the delivery of the pump.

1,352,674. PINWHEEL. CHARLES F. MITCHEL, Rochester, N. Y., assignor to Bastian Bros. Company, Rochester, N. Y., a Corporation. Filed Sept. 24, 1919. Serial No. 326,022. 1 Claim. (Cl. 46—14.)



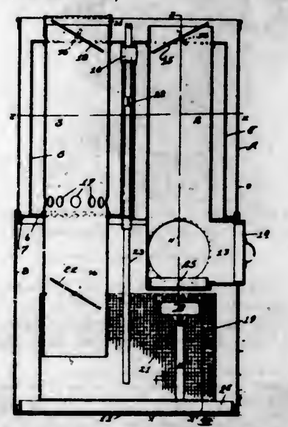
A pin wheel formed of two differently slitted blanks each having blade forming portions rolled to provide blades, the blades of one blank alternating with the blades of the other blank and coöperating with each other to prevent relative turning of the blanks in one direction, one of said blanks having an opening and the other having a tongue extending into said opening to prevent the turning of the blanks in the opposite direction.

1,352,675. SEWING-MACHINE. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 13, 1917. Serial No. 180,371. 6 Claims. (Cl. 112—136.)



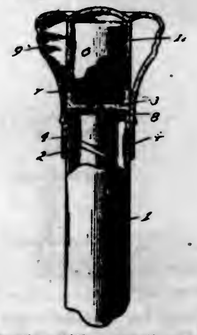
1. A sewing machine including in combination, a work support, an overhanging arm, stitch forming mechanism, means for guiding fabric sections for forming a fabric pocket, means carried by the overhanging arm for guiding an elastic tape into said fabric pocket as it is being formed, a shoe for engaging the tape for placing the same under tension, a plate supporting said shoe, a post mounted on the plate, a spring surrounding the post and normally forcing the shoe against the tape, a lever carried by the overhanging arm and normally out of engagement with said post and means for moving the lever to cause the same to engage the post and move the plate to release the tape from the tension of the shoe.

1,352,676. HEATER. CHARLES A. MOORE, St. Paul, Minn. Filed Sept. 19, 1918. Serial No. 254,869. 4 Claims. (Cl. 126—84.)



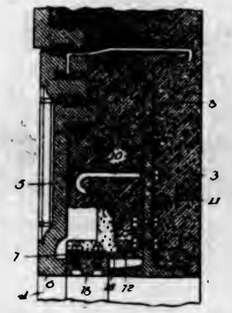
3. A heater of the class set forth, comprising, in combination an outer casing open at its lower and upper ends, a jacketed inlet duct in said casing having its upper end opening into a space to be ventilated and its lower end opening to the outer atmosphere to admit fresh air into the lower end of the duct, said outer casing being formed with a water reservoir surrounding the jacket of the duct so that liquid placed in the reservoir may be heated by the jacket and vaporized, and a heating element associated with the lower end of said duct for heating the air passing upwardly through the duct, said jacket having an outlet through which air entering the lower end of said casing and passing upwardly through the jacket may escape, whereby outside fresh air is warmed and moistened and will pass upwardly above said inlet duct, and vitiated air is admitted into the drum and is expelled to the outer atmosphere.

1,352,677. ERASER ATTACHMENT FOR PENCILS. WADE W. MOORE, Pittsburg, Calif., assignor to Jesse E. Roach, Oakland, Calif. Filed Dec. 1, 1919. Serial No. 342,021. 8 Claims. (Cl. 120—38.)



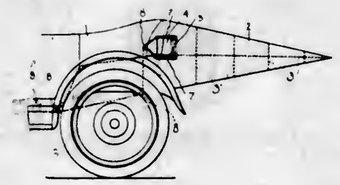
1. The combination with a pencil, comprising a magazine and a shell surrounding the magazine, of a cup mounted upon the end of the magazine and provided with an annular flange to surround the shell of said pencil; an eraser mounted within the cup; means for retaining said eraser within said cup; and an ornamental knob adapted for engagement with the cup to inclose said cup and eraser therein.

1,352,678. BUILDING STRUCTURE. DANIEL J. MURNANE, Chicago Heights, Ill. Filed Jan. 9, 1919. Serial No. 270,253. 11 Claims. (Cl. 72—98.)



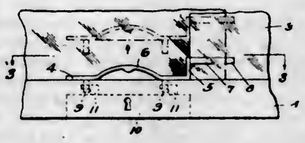
1. The combination with a building-wall formed of a body-portion with metal reinforcement therein and containing an opening and a facing of blocks, or the like, connected with said body-portion and extending adjacent said opening, of means anchored directly to said reinforcement for securing a structure in said opening.

1,352,679. AIR-DEFLECTING DEVICE. CORNELIUS T. MYERS, Detroit, Mich. Filed Nov. 11, 1916. Serial No. 130,715. 3 Claims. (Cl. 280—159.)



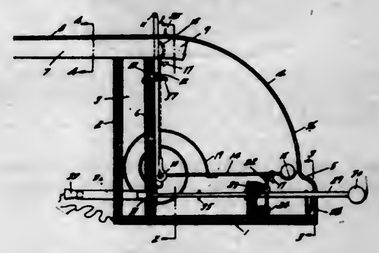
1. As a new article of manufacture, a collapsible conical shaped deflector adapted for attachment to the rear end of a vehicle to prevent the formation of eddies of air at the rear end of the vehicle.

1,352,680. SHOW-CASE LOCK. HARRY NAGLER, Brooklyn, N. Y. Filed May 27, 1920. Serial No. 384,704. 6 Claims. (Cl. 70—27.)



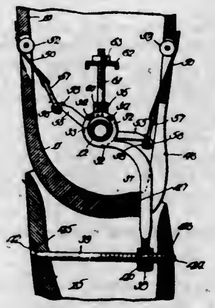
3. The combination with the bottom and oppositely sliding doors of a show case, said doors having one of their ends overlapped when in closed position, a lock mounted in the bottom of the show case, a plate resting upon the bottom of the show case and detachably engaged by said lock, one end of said plate being upturned and abutting the overlapped end of one of said doors to prevent opening of this door, and an arm carried by the upturned end of said plate and extending between the overlapped ends of said doors and provided with means abutting the overlapped end of the other door to prevent opening of this door.

1,352,681. TOY CANNON. WILLIAM L. NICOLS, Tuscumbia, Ala. Filed Aug. 29, 1919. Serial No. 320,737. 6 Claims. (Cl. 46—46.)



2. As an article of manufacture, a toy comprising in combination a base, a catapult and a pop gun mounted on said base, latch means to hold the catapult set, a common reciprocable element carrying a plunger for the pop gun, and a trip for the latch so related as to produce simultaneous operation of pop gun and catapult, substantially as described.

1,352,682. ARTIFICIAL LEG. JOSEPH R. B. NORFOLK, Chicago, Ill. Filed June 9, 1919. Serial No. 302,658. 7 Claims. (Cl. 3—2.)

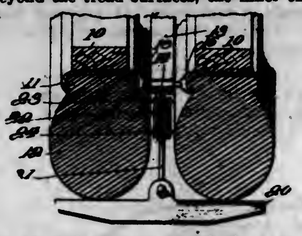


1. The combination of an upper leg member, a lower leg member, a hinge-pin pivotally connecting said members, an equalizing bar pivotally mounted intermediate its ends on said hinge-pin, and a flexible suspender having one of its ends connected to one end of said equalizing bar and its other end connected to the other end of the equalizing bar, the suspender having a length enabling it to pass over the wearer's shoulder and hold the artificial leg in place.

1,352,683. TRACTION-INCREASING DEVICE. JOCELYN-EMILE OLLIVIER, Haute-Savoie, France. Filed Aug. 10, 1917. Serial No. 185,482. 5 Claims. (Cl. 152—2.)

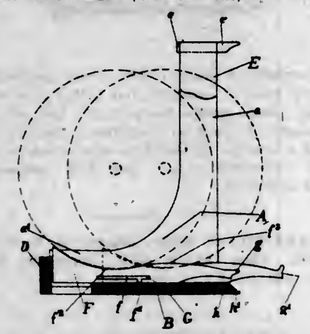
1. The combination with a vehicle wheel having a pair of spaced apart tread surfaces of a ring arranged between the treads and adjacent the rim of the wheel, links pivotally connected with and extending outwardly from said ring, and arms each pivotally connected at an intermediate point in its length to one of the links and each

arm having at its outer end an individual spike that projects beyond the tread surfaces, the inner ends of said



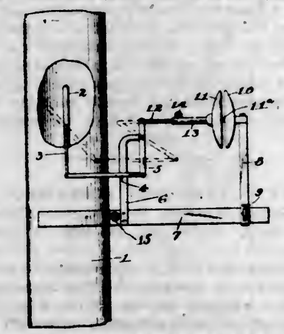
arms being adapted to connect with the supporting ring to limit turning movement of the arm and spike relative to the wheel in one direction.

1,352,684. RECORD-CABINET. OTTO L. OSTENDORF, Rochester, N. Y. Filed Mar. 4, 1920. Serial No. 363,227. 2 Claims. (Cl. 211—16.)



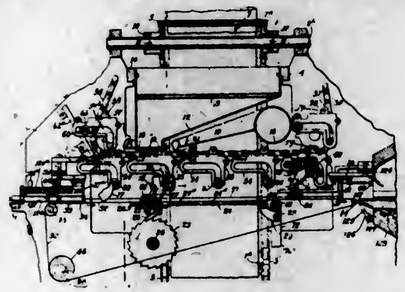
2. A record cabinet comprising a series of partitions and record supporting slides movable between the partitions, each slide having a concave curve toward the rear to receive the edge of a record, and a convex curve continuous with the concave curve toward the front to retain the record on the slide, said slide also having a longitudinal slot and a vertical slot extending from the bottom edge to the longitudinal slot, and a transversely extending rod engaging said longitudinal slot and acting to limit forward movement of the slide, each slide acting to support a record on its upper edge and being independently removable by lifting it away from said rod.

1,352,685. AUTOMATIC TEMPERATURE-REGULATOR. FRANK OSBORN, Wiley, Colo., assignor of one-half to George W. Finnup, Garden City, Kans. Filed Dec. 20, 1919. Serial No. 346,202. 11 Claims. (Cl. 236—95.)



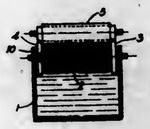
1. A temperature regulator including a heat radiating element, a damper therefor, means for controlling said damper, said means including a plurality of thermostats, one of said thermostats exposed to radiant heat from said element and shielding another thermostat from said radiant heat.

1,352,686. COATING AND STROKING OR DECORATING MACHINE. PANAYIOTIS PANOULIAS, New York, N. Y. Filed Aug. 3, 1911. Serial No. 642,090. 70 Claims. (Cl. 91—3.)



1. A machine for coating and decorating candy cores comprising, in combination, a traveling core support, means thereover for supplying coating material to the cores, and a contacting stroking device also over said support and operative upon the freshly-coated cores while the latter remain upon the support.

1,352,687. PRODUCING FELT. RAY P. PERRY, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed July 31, 1919. Serial No. 314,587. 11 Claims. (Cl. 92—38.)



1. As a new article of manufacture, a sheet of untrimmed felt having lateral extensions thereon.

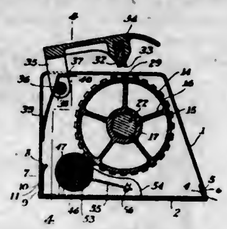
1,352,688. TOOL. VICTOR H. PETERSON, Waverley, Mass. Filed Feb. 19, 1919. Serial No. 278,007. 4 Claims. (Cl. 29—105.)



1. A rotary cutting tool having a head with grooves extending in the general direction of the axis; blades and keys adapted to fit removably in the grooves, each key being tapered endwise and adapted to press its blade laterally toward a wall of the groove; said keys being also tapered in the radial direction with the smaller dimension outward and the groove wall being inclined to correspond.

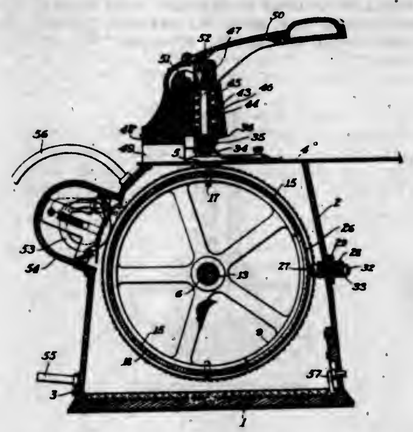
1,352,689. CHECK-PROTECTOR. HENRY J. PLANT, Rochester, N. Y., assignor to Defiance Check Writer Corporation, Rochester, N. Y., a Corporation. Filed Feb. 15, 1917. Serial No. 148,781. 4 Claims. (Cl. 101—20.)

1. In combination with a work support, a rotary printing wheel, a centering wheel turning with the rotary printing wheel, a platen for coöperation with said printing wheel, a platen carrying lever, a rod on which said lever



turns, and a pawl mounted to turn on said rod to cooperate with said centering wheel.

1,352,690. PRINTING-MACHINE. HENRY J. PLANT, Rochester, N. Y., assignor to Defiance Check Writer Corporation, Rochester, N. Y., a Corporation of New York. Filed Mar. 8, 1916, Serial No. 82,810. Renewed Mar. 12, 1920. Serial No. 365,331. 11 Claims. (Cl. 101—19.)

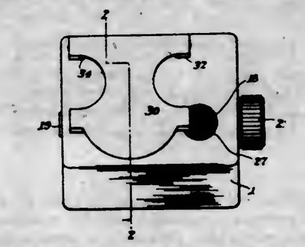


1. In a printing machine, indicating means having consecutive numbers thereon, a printing member having lines of type thereon, each line being adapted to print an amount which bears a definite relation to one of the numbers on the indicating means, and means detachably securing the printing member in proper relation to the indicating means so that other printing members bearing other relations may be associated with said indicating means.

2. In a printing machine, a suitably mounted shaft, indicating means connected to the shaft, a pair of relatively adjustable heads mounted on said shaft, a spring tending to separate said heads, means for holding said heads against separation, means for preventing the relative turning of the heads, a cylindrical printing member detachably interlocked with said heads, and means for defining the position of the printing member on the heads to correspond with the indicating means.

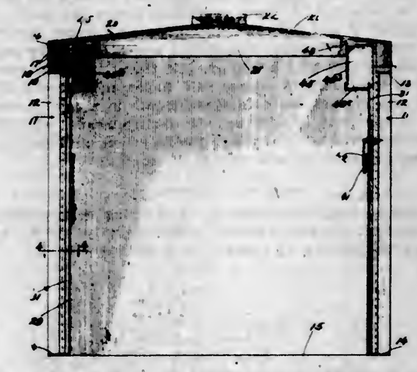
1,352,691. CHECK-PROTECTOR. HENRY J. PLANT, Rochester, N. Y., assignor to Defiance Check Writer Corporation, Rochester, N. Y., a Corporation. Filed Jan. 12, 1917, Serial No. 141,973. Renewed Mar. 12, 1920. Serial No. 365,332. 8 Claims. (Cl. 101—20.)

1. A check protector comprising a casing having a slot in its top wall and two slots in rear of said slot, a printing wheel mounted in the casing and having type thereon adapted to be exposed through the first mentioned slot, a frame arranged on the inside of the casing and having



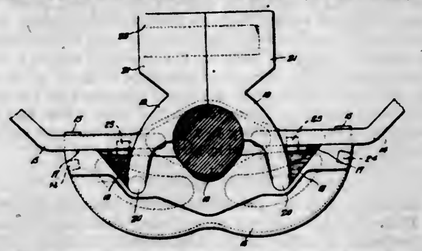
two arms projecting to the exterior of the casing through the two slots, and a lever pivoted to said arms and carrying a platen for coöperation with the printing wheel.

1,352,692. GRAIN-DOOR FOR CARS. EDWARD POSSON, Chicago, Ill. Filed June 5, 1916. Serial No. 101,798. 7 Claims. (Cl. 20—32.)



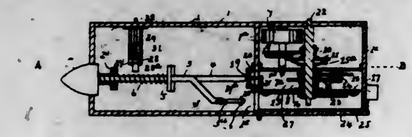
3. In a device of the class described, a door post, a door jamb attached to said post, a guide plate detachably connected to said door jamb to form a guideway between said plate and post, a grain door comprising a plurality of sections movable in said guideway, and a bracket adapted to receive said sections therefrom and to support the same in inoperative position.

1,352,693. SPARK AND THROTTLE LEVER LOCK. JOSEPH H. PRICE, Cape Girardeau, Mo. Filed Nov. 24, 1919. Serial No. 340,126. 3 Claims. (Cl. 70—126.)



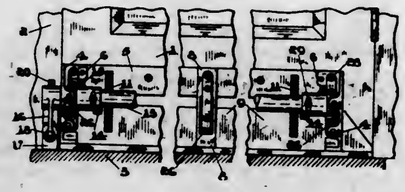
1. The combination with a steering post, control levers and quadrant on which the said levers work, of a securing member including a body plate seatable on the quadrant with one edge opposing the control levers in their inactive positions, movable arms carried by the said body plate and shiftable into embracing relations around the steering post, and means for locking the arms around the steering post, said lever opposing edge of said body plate having extensions adjacent to its opposite sides projecting beneath the levers in inactive positions for the purpose stated.

1,352,694. TIME-LOCK. JAMES S. RAY, Duluth, Minn. Filed Mar. 21, 1919. Serial No. 284,120. 2 Claims. (Cl. 284—1.)



1. The combination with a suitable case, of a spring actuated bolt adapted in operative position to extend therefrom; a clock mechanism including a minute shaft, an hour stem concentric with said shaft, means for driving said shaft and stem, a stationary plate, a plate mounted upon said hour stem concentrically therewith and adapted to rotate therewith, said rotatable plate being approximately parallel with said stationary plate and spaced therefrom; a rod extending rearwardly from said bolt toward said clock mechanism and adapted to extend a short distance into the space between said two plates when said bolt is retracted; a gate positioned across the path of movement of said rod toward said space; a finger extending from said gate into said space; means carried by said rotatable plate and adapted at some time during the rotation of said plate to engage said finger and thereby lift said gate; means for guiding said gate in a path eccentric to the path of said finger-engaging means, whereby said finger will be drawn out of engagement with said engaging means when said gate is lifted.

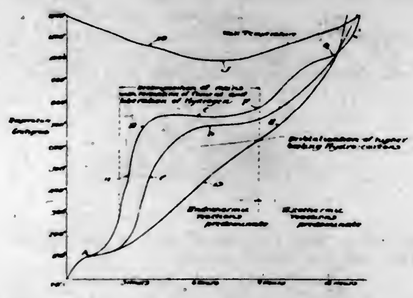
1,352,695. WEATHER-STRIP. LLEWELYN MORRIS REES, Hamilton, Ontario, Canada. Filed Sept. 12, 1919. Serial No. 323,311. 2 Claims. (Cl. 20—68.)



1. In a weather strip, the combination of a transverse wooden strip adapted to be secured to the face of a door; metal end frames provided with flanges secured to said wooden strip; a vertically movable strip fitted below the fixed strip and behind the end frames; a rock shaft journaled in the end frames; rock arms on said shaft adapted to engage the upper edge of the movable strip; a rock arm on said shaft the end of which is adapted to engage the door jamb to rock the shaft and thus depress the movable strip; springs connected to the fixed strip and the movable strip and tending to raise the latter; and springs tending to press the movable strip toward the door.

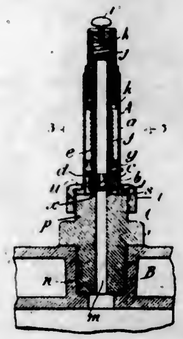
1,352,696. ART OF COKING COAL. ARTHUR ROBERTS, Evanston, Ill., assignor to American Coke and Chemical Company, Chicago, Ill., a Corporation of Maine. Filed Dec. 1, 1919. Serial No. 341,696. 22 Claims. (Cl. 202—8.)

11. The process of treating coals to produce metallurgical coke in which said coals the amount of disposable hydrogen does not exceed approximately fifty-eight per cent. of the amount of disposable oxygen, which consists in charging the same into a retort and introducing heat into the coal mass through the medium of the retort, the heat being introduced so rapidly that the temperature of the mass is raised to the temperature of decomposition of its resinous constituents before excessive evaporation thereof, whereby a sufficient residue of said resinous constituents is decomposed in contact with the humous bodies



in each portion of the mass to bind said humous bodies together with the consequent production of a metallurgical coke.

1,352,697. GAGE FOR GAS-ENGINES OR THE LIKE. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed June 3, 1911, Serial No. 631,059. Renewed Dec. 3, 1919. Serial No. 342,267. 17 Claims. (Cl. 73—111.)



1. The combination of a pressure gage and a fitting adapted to connect said gage to the cylinder of a gas engine or the like, said gage having a packing attached thereto at one end adapted to fit against said fitting when applied to an engine and to make a contact-connection with a tire-valve when disconnected from said fitting.

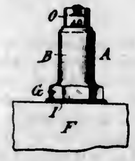
2. The combination of a pressure gage and a fitting adapted to connect said gage to the cylinder of a gas engine or the like, said gage having a packing chamber at one end, a packing in said chamber adapted to fit against said fitting when applied to an engine and to make a contact-connection with a tire-valve when disconnected from said fitting.

3. The combination of a pressure gage and a fitting adapted to connect said gage to the cylinder of a gas engine or the like, said gage having a packing chamber at one end, a packing in said chamber adapted to fit against said fitting when applied to an engine and to make a contact-connection with a tire-valve when disconnected from said fitting, said fitting having a nipple or lead x of substantially the same size as the end of a tire valve adapted to project into contact with said packing.

4. The combination of a pressure gage and a fitting adapted to connect said gage to a cylinder of a gas engine or the like, said gage comprising a casing having a flange at one end, and said fitting comprising a swivel collar adapted to engage said flange and to slip off said casing at the end opposite said flange.

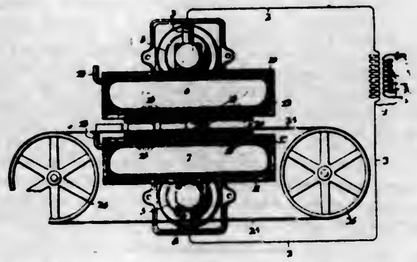
5. A pressure gage having a pressure member and an indicating member, said members being normally disconnected, and means for connecting said members whereby said indicating member may partake of the expansive and contractile movements of said pressure member.

1,352,698. PRESSURE-GAGE. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Aug. 26, 1911, Serial No. 646,107. Renewed Dec. 5, 1919. Serial No. 342,803. 10 Claims. (Cl. 73—111.)



1. A gage comprising a casing, a pressure responsive element in said casing adapted to move in response to variations of pressure acting against it, said casing being made of a single piece of metal and having engaging means on the exterior thereof for attaching the same to a recessed part of a fluid container, said gage having other means on the end of the casing adapted to make connection with a container, said gage when applied to a container by the use of the exterior engaging means, inclosing said other means for making connection with a casing, said gage having a restricted orifice through which communication with the pressure responsive element is established.

1,352,699. PROCESS OF DESTROYING INSECT LIFE. FRANKLIN S. SMITH, Philadelphia, Pa. Filed Apr. 30, 1918, Serial No. 231,666. Renewed Oct. 21, 1919. Serial No. 332,318. 18 Claims. (Cl. 175—311.)



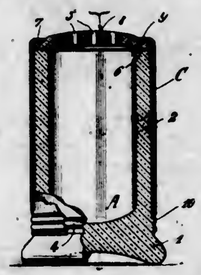
2. The process of treating products within containers for the purpose of destroying insect life, which consists in the subjection of the products within such containers to the action of disruptive conduction of current density limited to a value below that which would damage the products or containers and in which the voltage gradients across the products and containers are less than the rupturing gradients of the products and containers being treated.

1,352,700. METHOD OF PRODUCING SILICATE OF SODA AND THE LIKE. WILLIAM H. STANTON, Ridley Park, Pa. Filed Jan. 26, 1917. Serial No. 144,634. 6 Claims. (Cl. 49—77.)



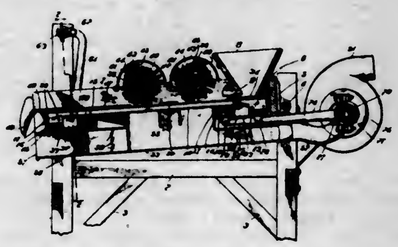
1. The process or method of operating a furnace having separate hearths in the treatment of silicate of soda, which consists in heating a charge on one hearth by means of the gases of combustion at substantially their maximum temperature and simultaneously heating a newly introduced charge on the other hearth by the same gases at a reduced temperature until the treatment of the first-mentioned charge is completed, drawing said completed charge, substituting a fresh charge and reversing the direction of the travel of the gases through the furnace and heating said second mentioned charge to completion.

1,352,701. SALTCELLAR. EMERY B. SWEETSER, Brooklyn, N. Y. Filed June 12, 1916. Serial No. 103,308. 1 Claim. (Cl. 65—45.)



A sprinkling dispenser for pulverulent material comprising a hollow body having an opening at the top and a surrounding upwardly directed seat, external screw threads a material distance below said seat and an external portion between said threads and said seat free from shell engaging means; a perforated dispensing cap overlying and seating upon said seat; an external shell having inwardly extending means for gripping said cap, fitting freely and loosely about said external portion of said body free from shell engaging means and having screw threads for engaging said screw threads on said body to clamp said cap upon said seat with a self-adjusting uniform pressure about said seat.

1,352,702. PEANUT-BLANCHING MACHINE. FRED TOWNSEND, Chicago, Ill., assignor of one-half to James R. Randall, Chicago, Ill. Filed Apr. 14, 1919. Serial No. 289,912. 33 Claims. (Cl. 146—14.)

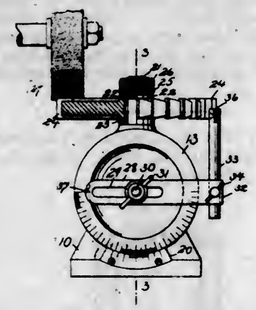


1. In a machine for freeing nuts of their membranes, the combination of membrane loosening means, mechanism for reciprocating slantingly said means, rotary means for advancing the nuts over said membrane loosening means and in engagement therewith, and means for withdrawing the loosened membranes from the nuts.

1,352,703. FIXTURE FOR USE IN CUTTER-GRINDING AND SIMILAR OPERATIONS. WILLIAM B. TULEK, New York, N. Y. Filed July 8, 1919. Serial No. 309,437. 3 Claims. (Cl. 51—7.)

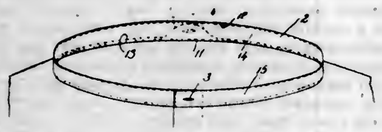
1. A cutter holder for grinding purposes comprising a base member, a movable member, the members having coacting parts so that the movable member can be par-

tially rotated, a spindle secured to one of said members and passing through the other member, a nut on said spindle, a radial stud on the movable member, an exten-



sion on said spindle, a slotted strap on said extension, a nut for locking the strap on the extension, and a spring finger supported by said strap.

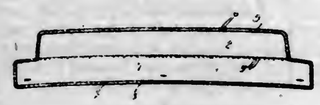
1,352,704. SHIRT. JOHN MANNING VAN HEUSEN, Jamaica Plain, Mass. Filed Dec. 27, 1917. Serial No. 209,032. 8 Claims. (Cl. 2—41.)



1. A shirt provided with a collar band made of a single width of fabric folded at an intermediate portion to form the upper edge, the inner portion and the outer portion of the band, one of the said portions having a divided edge between which the shirt is secured.

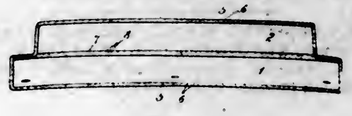
6. A shirt provided with a collar band woven in one piece, comprising an inner portion, an intermediate edge fold portion and an outer portion, the outer portion being longer than the inner portion so that the collar band takes on a curvilinear set, one of said portions having a divided edge integral therewith between which the fabric of the shirt is secured and having the inner and outer portions secured together, except near the back button-hole.

1,352,705. COLLAR. JOHN MANNING VAN HEUSEN, Jamaica Plain, Mass. Filed Jan. 31, 1918. Serial No. 214,639. 4 Claims. (Cl. 2—67.)



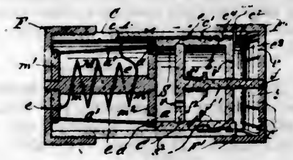
2. A folding or turn down collar having its neck band portion and its folding portion made up of multiple-ply interwoven fabric, and an additional layer of fabric secured to the neck band portion of the collar and providing a portion of increased thickness at the fold line between the neck band and folding portions of the collar.

1,352,706. COLLAR. JOHN MANNING VAN HEUSEN, Jamaica Plain, Mass. Filed Jan. 31, 1918. Serial No. 214,640. 3 Claims. (Cl. 2—67.)



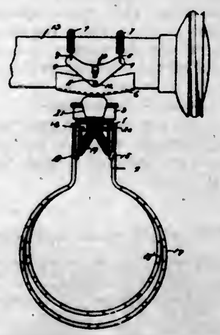
2. A folding or turn down collar made up of multiple-ply interwoven fabric forming both the neck band and folding portions of the collar, and a relatively narrow band of fabric having woven with its upper edge curvilinear and secured near the upper edge of the neck band portion of the collar so as to provide a portion of increased thickness and stiffness at the curvilinear fold line formed thereby, between the neck band portion and folding portion of the collar.

1,352,707. AUTOMATIC ELECTRICAL-CIRCUIT BREAKER. HARRY E. WADSWORTH, New York, and WILLIAM B. ENSIGN, White Plains, N. Y. Filed July 31, 1919. Serial No. 314,552. 3 Claims. (Cl. 200—106.)



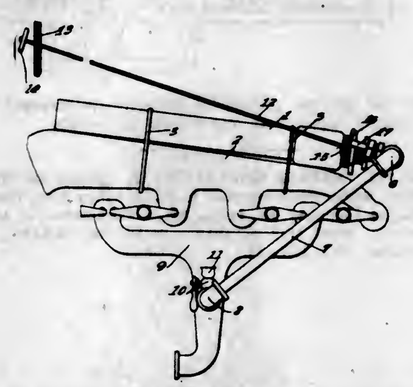
1. An automatic electric circuit breaker of the character designated, comprising a casing of insulating material, metallic ferrule caps formed externally for contactual engagement with electric circuit terminal spring clips, fixed electric contacts connected one with each of said ferrule caps, movable means for electrically connecting said fixed electric contacts, means which tend constantly to open the circuit, switch latch mechanism controlled by an electro-magnet, said electro-magnet having its coil interposed in the electric circuit when the latter is closed, and ferrule-cap-connected means for re-setting the parts after a break.

1,352,708. FLASH-LIGHT HOLDER. WILLIAM WAEGEL, Reading, Pa. Filed Oct. 7, 1919. Serial No. 329,188. 4 Claims. (Cl. 240—52.)



1. A flash light holder comprising a base plate, a housing mounted thereon, a cap threaded upon said housing, a ball head located within the housing cap, an angular holder carried by said ball head, means for securing a flash light upon said holder, a pair of clamps pivoted to the base plate, and springs for swinging said clamps toward each other.

1,352,709. FUEL-SAVING AND SPEED-INCREASING ATTACHMENT FOR ENGINES. FRED S. WARE, Fulton, N. Y. Filed Oct. 19, 1917. Serial No. 197,514. 1 Claim. (Cl. 123—122.)



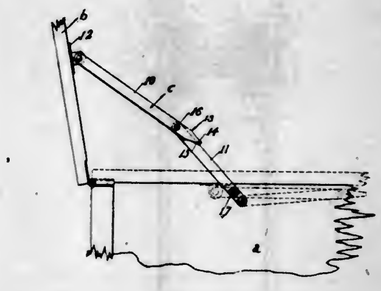
The combination with the intake manifold of an internal combustion engine, of a relatively large air heating drum secured upon and extending along the exhaust manifold in close proximity thereto and having one end open directly to the atmosphere, there being a continuous unobstructed opening extending through the drum from one end to the other thereof, a relatively small pipe connected to the intake manifold and to that end of the drum remote from the end open to the atmosphere, a valve in said small pipe near its junction with the heating drum, means for operating said valve from a point remote therefrom, and a priming valve in said small pipe and adjacent the intake manifold, the connection between the relatively small pipe and the heating drum being stepped.

1,352,710. MANUFACTURE OF STEEL. GEORGE B. WATERHOUSE, Buffalo, N. Y. Filed July 31, 1919. Serial No. 314,442. 12 Claims. (Cl. 75—27.)



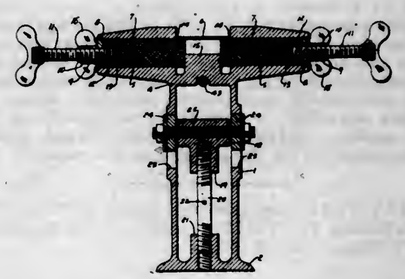
1. The herein described process for improving the physical structure of steels having a maximum carbon content of about .25% which consists in subjecting the molten steel to the influence of a silicon addition to effect uniformity in the sulfur distribution, said silicon addition being proportioned so as not to materially increase the silicon content of the resulting steel.

1,352,711. LID-SUPPORTING DEVICE. ARCHIBALD D. WATERS, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Dec. 6, 1919. Serial No. 343,030. 3 Claims. (Cl. 217—60.)



1. A lid supporting device including a link having one end bent back upon itself to form a loop open along both longitudinal edges of said link, a second link having one end positioned between the sides of the said loop, and means pivotally connecting the end of the second link between the sides of said loop.

1,352,712. APPARATUS FOR SOFTENING MOTION-PICTURE FILMS. PAUL WERNER, St. Louis, Mo., assignor, by direct and mesne assignments, to Werner Film-Protector Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 7, 1919. Serial No. 288,421. 30 Claims. (Cl. 91—36.)

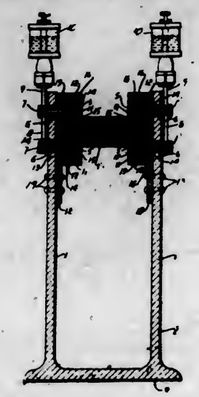


1. A motion-picture film anointing device comprising mechanism for presenting anointing means to said film as the same is being rewound from one reel to another, wiping or cleaning means acting on said film, and guiding means for said running film between said reels and said guiding means being adjustable to adapt said running film to be held in frictional contact with said anointing means to compensate for the wear of such means.

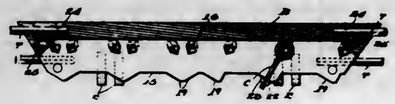
1,352,713. APPARATUS FOR SOFTENING MOTION-PICTURE FILMS. PAUL WERNER, St. Louis, Mo., assignor to Werner Film-Protector Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed June 7, 1919. Serial No. 302,525. 13 Claims. (Cl. 91—49.)

1. A motion-picture film-anointing device comprising mechanism for applying a liquid to the film while said film is being rewound on one reel from another, said mech-

anism consisting of upper and lower film-guiding rollers, hollow shafts on which said rollers revolve having outlets to discharge liquid to said rollers, a feed pipe leading to said shafts, and a supply reservoir for said feed pipes.

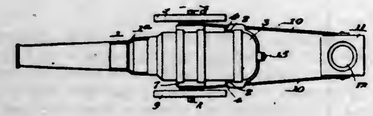


1,352,714. SCARIFIER ATTACHMENT FOR ROAD-GRADERS. JOHN ABSALOM WILLIAMS, Aurora, Mo. Filed Jan. 14, 1920. Serial No. 351,339. 2 Claims. (Cl. 287—54.)



1. In a scarifier, a block having a channel formed therein and openings in the walls of said channel inclined to the edges of the block, teeth slidable through said openings and adapted to bridge said channel, oblique projections formed on the edges of the walls of said channel, and clamping means working within said channel engaging said teeth at a point within the channel and having members engaging said projections which provide faces normal to the line of stress of said means.

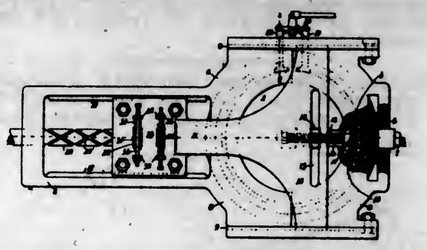
1,352,715. GAS-CANNON. JAMES H. WILY, South Bethlehem, Pa. Filed Nov. 4, 1915. Serial No. 59,692. 27 Claims. (Cl. 42—55.)



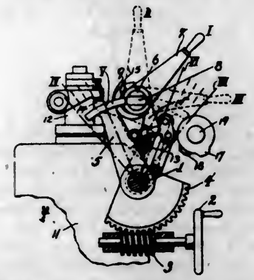
1. A cannon having an explosion chamber therein, means for admitting oxygen to said chamber, and means for generating within said chamber a gas which, when mixed with the oxygen therein forms an explosive gas.

1,352,716. SPEED-CHANGE MECHANISM. ROBERT E. WINTERS, Coraopolis, Pa., assignor of one-half to Anthony E. Dean, Pittsburgh, Pa. Filed June 5, 1918. Serial No. 238,277. 5 Claims. (Cl. 74—40.)

1. In speed change mechanism the combination of a drive wheel, an adjustable pitman, a positively actuated driving shaft, an eccentric connection between the driving-shaft and the drive wheel, a power shaft having reverse grooves, collars carried by the pitman and engaging with the grooves, and double-acting pawls arranged to alternately engage with and slip on the collars.

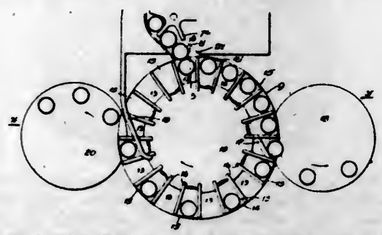


1,352,717. ENGINE REVERSE-GEAR. EUGEN ZBINDEN, Bern, Switzerland, assignor to Busch-Sulzer Bros. Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed May 3, 1917. Serial No. 166,129. 8 Claims. (Cl. 123—41.)



1. In an internal combustion engine, the combination with valves serving for air-starting, and combustion-running, respectively, valve gearing for operating the same, a first control active upon said gearing to cause the operation of one or other or neither of said valves, and a second control for adjusting said gearing for forward or backward running, of a swinging contact member connected with the second control, and a rotary gate united with the first control and constructed to prevent operation of the second control within the reversing limits except when the first control is in neutral position and further to prevent the first control or parts thereof being turned into position "air starting" or "combustion running" as long as the second branch of control is in the zone of reversing.

1,352,718. CAN-DISTRIBUTING DEVICE. CHARLES H. AYARS, Salem, N. J. Filed Nov. 24, 1919. Serial No. 340,360. 2 Claims. (Cl. 193—1.)



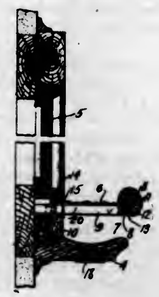
2. A can distributing device including a table; a member mounted above and rotatable relatively to said table and having notches in its outer edge alternating with extensions; delivery members; means for feeding cans into the notches and onto said extensions; a deflecting member interposed between said table and said first mentioned member and adapted to deflect the cans which are within said notches from said table to one of said delivery members; and deflecting means positioned above said first mentioned member and adapted to deflect the cans which are on said extensions upon another of said delivery members; substantially as described.

1,352,719. DRAFT-GAGE. ABRAM T. BALDWIN, Detroit, Mich.; Catherine P. Baldwin executrix of said Abram T. Baldwin, deceased. Filed Dec. 13, 1917. Serial No. 206,977. 3 Claims. (Cl. 73—110.)



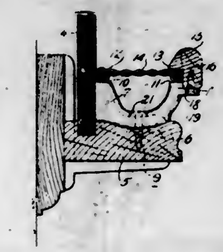
1. In a draft gage,—an inclosing casing,—a plurality of dial windows disposed one above the other in the front face of the casing,—a corresponding plurality of dials visible through said windows,—a plurality of pointers corresponding and operative with respect to the dials,—a corresponding plurality of pointer-actuating mechanisms,—and a corresponding plurality of furnace-connecting pipes, said dials being arranged one above the other in the same order as the flow of gases of which the pressures are to be measured.

1,352,720. CHALK-TROUGH. CHARLES F. BERGER, Pelham, N. Y. Filed Dec. 31, 1919. Serial No. 348,693. 7 Claims. (Cl. 35—15.)



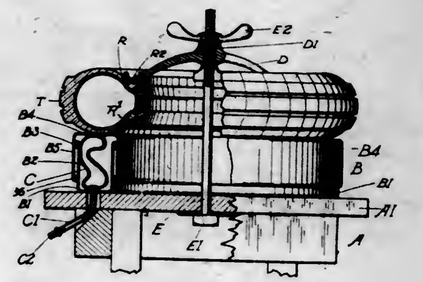
1. A chalk trough comprising two parts separated at the outer edge whereby a hand may be inserted between the parts, the lower part being adapted to receive the chalk dust, and the upper part having a lower side free from obstructions.

1,352,721. COMBINATION CHALK-TROUGH. CHARLES F. BERGER, Pelham, N. Y. Filed Dec. 31, 1919. Serial No. 348,694. 6 Claims. (Cl. 35—15.)



1. The combination with the chalk trough of a blackboard of a plurality of brackets adapted to rest in said trough, each of said brackets having rounded edges whereby the chalk dust may be pushed over each bracket in either direction, and a screen mounted on said brackets above said trough leaving a space between the screen and the trough whereby a hand may be inserted between the screen and trough, for the purpose set forth.

1,352,722. TIRE-REMOVING APPARATUS. NOAH L. CALDWELL, Knoxville, Tenn. Filed July 22, 1919. Serial No. 312,623. 8 Claims. (Cl. 157—6.)



1. In an apparatus for the separation of two annular members one of which is a metal rim and the other of which is a rubber tire surrounding said rim, the combination of an annular expansion structure adapted to engage one of said members and to be expanded in the direction parallel to the axis of said member by the introduction into said structure of fluid under pressure, and means for engaging the other of said members and holding it against movement, substantially as described.

1,352,723. SHEET-METAL WHEEL. ALFRED COTTON and LOUIE F. KOELLNER, Hartford, Conn. Filed July 23, 1919. Serial No. 312,731. 8 Claims. (Cl. 301—64.)

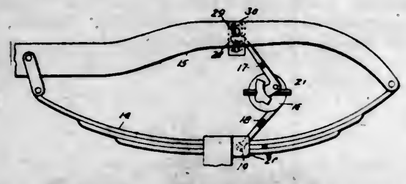
1. A vehicle wheel comprising an inner sheet metal web member having radially extending corrugations increasing in width and decreasing in depth toward the perimeter of the member, an outer sheet metal web member, the inner face of which is engaged along radial lines by the outer face of the inner member along the summits of the

ridges formed by the corrugations at the outer side of the inner member, a hub extending through the web mem-



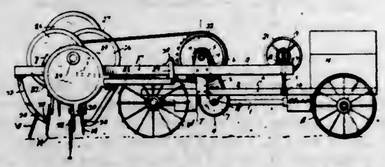
bers centrally thereof, and a rim supported by the web members.

1,352,724. SHOCK-ABSORBER. HARLAND A. DANFORTH, Saugus, Mass. Filed Mar. 20, 1916. Serial No. 85,340. 12 Claims. (Cl. 267—2.)



1. A shock absorber secured to a body and to a flexible support, comprising a centrifugal means operated by the vibrations of the body for counteracting the force of the vibration.

1,352,725. AGRICULTURAL MACHINE. HENRY JEFFERSON DAVIS, Waynesboro, Ga. Filed Apr. 14, 1919. Serial No. 289,802. 5 Claims. (Cl. 97—53.)

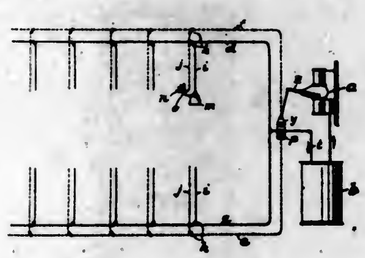


1. An agricultural machine of the class described comprising, in combination, a portable structure including a driving shaft, a ground working member supported for movement independently of the travel of the structure means driven from the shaft for imparting movement to the ground working member and means for regulating said last named means to vary the speed of the ground working member, said last means operating independently of the shaft.

3. An agricultural machine of the class described comprising a portable structure, an eccentric supported by the structure, means for rotating said eccentric at variable speeds, a strap surrounding said eccentric, a ground working member carried by said strap and movable therewith, and means connected directly with the strap for holding the same against rotation about its center.

5. An agricultural machine of the class described comprising, in combination, a portable structure including a driving shaft, a ground working member traveling in substantially a vertical orbit, means driven from the shaft for moving the ground working member in its orbit, and means for regulating said last named means to vary the speed of the ground working member in its orbit, said last named means operating independently of the shaft, said ground working member being carried by and depending from the lower portion of the strap.

1,352,726. MILKING MACHINERY. NORMAN JOHN DAYSH, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, a Corporation of New Jersey. Filed Oct. 29, 1918. Serial No. 260,106. 15 Claims. (Cl. 31—101.)



1. In a milking machine operating system, in combination, a milking machine unit comprising teat cups and a branch pulsation pipe, a plurality of independent pulsation pipe lines adapted for connection, at different points along their length, with such milking machine unit, a source of power, and pulsation means, independent of either pulsation line connected with and operable independently of its own pulsations, from said source of power to transmit pneumatic pulsations through the several pulsation lines.

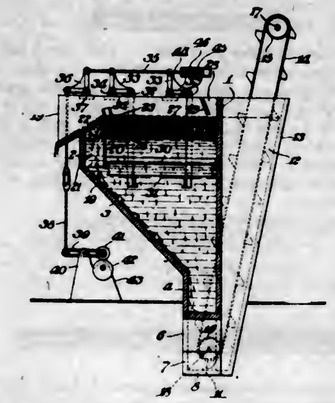
3. In a milking machine operating system, in combination, a plurality of pulsation pipe lines adapted for connection at different points along their length with a milking machine unit, a source of vacuum, and means comprising a master pulsator operable independently of the pulsations produced thereby and adapted to simultaneously connect one pipe line with vacuum and another with pressure and alternately therewith to connect the first pipe line with pressure and the second with vacuum.

5. In a milking mahcine operating system, in combination, a source of vacuum, a vacuum pipe line connected therewith, a plurality of pulsation pipe lines extending along different parts of the vacuum line, and means comprising a master pulsator operable independently of the pulsations produced thereby and adapted to connect each pulsation line alternately with pressure and the vacuum line.

9. In a milking machine operating system, in combination, a source of vacuum, a vacuum pipe line connected therewith, a plurality of pulsation pipe lines extending along different parts of the vacuum line, a milking machine unit comprising teat cups and a secondary pulsator, said unit adapted for connection with the vacuum line and any pulsation line, and means comprising a master pulsator operable independently of the pulsations produced thereby and adapted to connect each pulsation line alternately with pressure and vacuum.

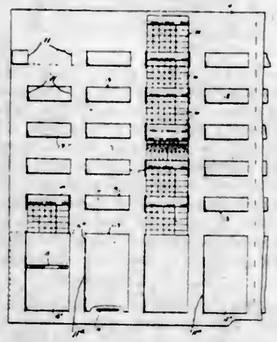
13. In a milking machine operating system, in combination, a vacuum pump, two pulsation pipe lines, a valve chamber provided with ports connected respectively to the vacuum pump, to a source of pressure fluid and to the pulsation lines, a master pulsator adapted to alternately connect each ppusation line port alternately with a pressure port and a vacuum port and to connect each pulsation line port with pressure while the other is connected with vacuum, and mechanical means to reciprocate the master pulsator from the vacuum pump.

1,352,727. MINERAL-WASHING APPARATUS. GEORGE R. DELAMATER, Steelton, Pa. Filed May 21, 1919. Serial No. 298,740. 14 Claims. (Cl. 83—79.)



1. In apparatus of the class described, the combination with a body adapted for holding water, said body provided with separating means comprising a wall forming spaces within said body in communication above and below said wall, a screen extending across a space aforesaid, a gate for controlling the movement of materials over said screen to said wall, and a plunger having a perforated member extending across said space below said screen whereby water in said body is pulsated to effect the movement of substances on said screen beneath said gate and over said wall, said body being adapted for bringing together under said plunger substances passing over said wall and substances passing through said screen and plunger.

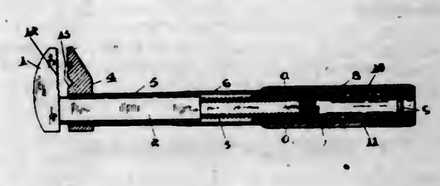
1,352,728. SEATING PLAN AND CLASS-RECORD. EDWARD C. DELANEY, New York, N. Y. Filed Feb. 5, 1919. Serial No. 275,163. 11 Claims. (Cl. 129—20.)



5. A register of the character described comprising a sheet formed to provide a plurality of longitudinal and transverse series of alined pockets to indicate the seating plan of a class room, each of said pockets indicating a seat in the class room, and cards insertible into the pockets and having thereon spaces designed to receive the pupil's name and other pertinent indicia and to be displayed above the pocket.

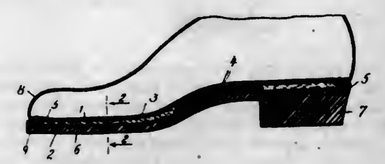
9. As an article of manufacture, a record card for class rooms having on one side a space designated to receive the name of the pupil, a series of spaces to receive the pupil's marks, a series of spaces to receive the general standing marks, and a plurality of spaces designated to receive pertinent data, the opposite face of the card having a different tint from the first named face of the card and being provided with a series of columns designated by the names of months to receive absent marks.

1,352,729. WRENCH. SAMUEL MCD. ROBERTSON and FREDERICK C. DYER, Toronto, Ontario, Canada. Filed Oct. 13, 1919. Serial No. 330,416. 1 Claim. (Cl. 81—169.)



In an adjustable wrench, the combination of a movable jaw; a flat sided shank therefor; a threaded end on the shank; a fixed jaw; a tubular stem to one end of which said jaw is fixed, the tube adjacent said end being flattened to guide the flat sided shank, its end remote from the fixed jaw being cylindrical; a tubular nut fitting within the cylindrical part of the tubular stem and engaging the threaded end of the shank; a sleeve fitted over the cylindrical portion of the stem and having a driving engagement with the outer end of the tubular nut, and a connection between the sleeve and the cylindrical portion of the tubular stem preventing longitudinal movement of one or the other, but permitting a movement of rotation.

1,352,730. SHOE-SOLE. HENRY C. EGERTON, Passaic, N. J. Filed Feb. 23, 1918. Serial No. 218,679. 17 Claims. (Cl. 36—30.)



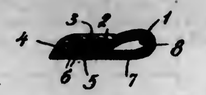
2. The shoe sole comprising a layer of woven fabric and additional inner strengthening material including paper united thereto by cured phenolic condensation cementing material and a rubber composition sole.

1,352,731. GRIPPING SHOE-SOLE. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct, 1, 1918. Serial No. 256,369. 14 Claims. (Cl. 36—59.)



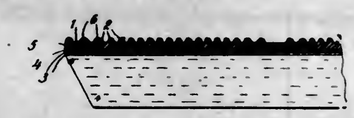
12. The composition shoe sole element formed with a series of ground gripping apertures and apertured reinforcing members secured in said apertures and comprising fabric carrying cured phenolic condensation cementing and stiffening material.

1,352,732. WEATHER-STRIP. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct. 15, 1918. Serial No. 258,277. 14 Claims. (Cl. 20—69.)



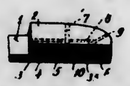
14. The yieldable closing member comprising a stiffening body portion including fibrous material carrying cured phenolic condensation cementing material, and a vulcanized rubber facing strip permanently secured to said body portion.

1,352,733. MAT, &c. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct. 18, 1918. Serial No. 258,741. 14 Claims. (Cl. 154—49.)



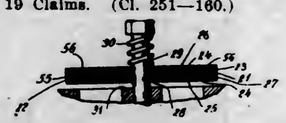
1. The rubber faced mat havingg a contact surface of vulcanized rubber formed with projecting contact portions, a stiffening backing member formed of a plurality of layers of canvas fabric carrying and impregnated with cured phenolic condensation cementing material, reinforcing members comprising fabric fibrous material carrying cured phenolic condensation cementing material and incorporated sheet metal members cemented and secured to said backing member and projecting toward said contact surface and a fabric connector having a frictioned rubber coating engaging and vulcanized to said vulcanized rubber forming such contact surfaces.

1,352,734. GRIPPING RUBBER SHOE-HEEL. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct. 18, 1918. Serial No. 258,743. 17 Claims. (Cl. 36—59.)



1. The rubber shoe heel comprising a spiral gripping heel rib formed of a composite fabric strip impregnated with cured phenolic condensation cementing material and arranged transversely to the wearing surface of the heel and forming substantially rigid separated convolutions provided with junction holes, vulcanized rubber composition forming the body of said heel and substantially surrounding and vulcanized to said heel rib and forming connecting plugs extending through said junction holes and a connected fabric stiffening and backing member carrying cured phenolic condensation cementing material.

1,352,735. VALVE MEMBER, &c. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct. 18, 1918. Serial No. 258,744. 19 Claims. (Cl. 251—160.)



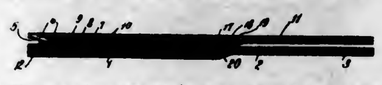
2. The valve comprising a metallic valve plate, stiffening supporting fabric coöperating with said valve plate and carrying cured phenolic condensation cementing and stiffening material uniting said supporting fabric to said valve plate, fabric connector members cemented to said supporting fabric by said cementing material and a vulcanized rubber facing adhesively and permanently secured to said connector members on both sides of said valve.

1,352,736. RUBBER SHOE-SOLE FOR TURN-SHOES. HENRY C. EGERTON, Ridgewood, N. J. Filed Dec. 2, 1918. Serial No. 264,935. 7 Claims. (Cl. 36—22.)



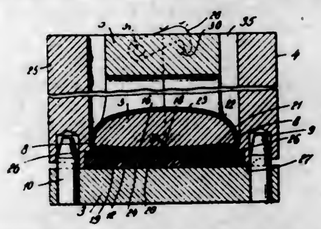
4. The integral rubber shoe sole for turn shoes and the like which comprises a sole, a fabric sewing flap member united to said sole and having a reinforced multiple thickness edge portion forming a fabric sewing flap which is adapted to be sewed to the shoe upper and a fabric stiffener member carrying cured phenolic condensation stiffening material secured to said sewing flap member so as to leave its edges projecting beyond the edges of said stiffener member.

1,352,737. PARTIALLY-STIFFENED SHOE-SOLE. HENRY C. EGERTON, Ridgewood, N. J. Filed Dec. 24, 1918. Serial No. 268,157. 10 Claims. (Cl. 36—30.)



6. The one-piece shoe sole comprising a vulcanized rubber composition wearing surface having readily yielding shank portions and having its front body stiffened and strengthened by a connected fibrous stiffener member comprising a plurality of layers of fabric carrying cured phenolic condensation cementing material, said fabric layers having rear portions formed adjacent the shank portion of the shoe sole with an external alining recess for a coöperating stiffener member.

1,352,738. PROCESS OF MAKING BOOTS AND SHOES. HENRY C. EGERTON, Ridgewood, N. J. Filed Feb. 4, 1919. Serial No. 274,937. 19 Claims. (Cl. 12—142.)



6. The process of making shoes which comprises assembling on a molding last an upper and sole elements having fibrous connecting portions carrying phenolic condensation cementing material, forcing said last and assembled elements into coöperation with a partition member and with a vulcanizable rubber sole adjacent said partition member into engagement with said sole elements and holding said shoe elements together during a heat curing treatment to vulcanize said rubber sole and cure said phenolic condensation cementing material and unite the connecting portions of said shoe elements.

1,352,739. FABRIC. HENRY C. EGERTON, Ridgewood, N. J. Filed Mar. 3, 1919, Serial No. 280,352. Renewed Feb. 16, 1920. Serial No. 359,199. 12 Claims. (Cl. 154—46.)



1. The sheet of composite fabric comprising a number of layers of canvas body fabric thoroughly impregnated with and containing considerable proportions of phenolic condensation cementing material securely uniting said layers of fabric and in partially cured condition so that it is rendered plastic on heating to make the composite fabric pliable, an absorbent securing facing fabric on one side of said body fabric and embedded in such phenolic condensation cementing material and thereby united to said body fabric, and a layer of securing facing fabric on the other side of said body fabric and permanently united thereto by such phenolic condensation cementing material and carrying on its exposed surface adherent vulcanizable rubber cementing composition.

1,352,740. VULCANIZED RUBBER HOSE. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct. 5, 1918, Serial No. 256,988. Renewed July 27, 1920. Serial No. 399,412. 14 Claims. (Cl. 137—90.)

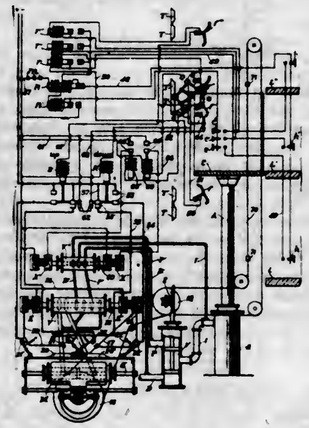


1. The flexible vulcanized rubber hose comprising an inner rubber lining and a rubber covering, and comprising a plurality of staggered layers of spiral fabric stiffening strips of canvas impregnated with cured phenolic condensation cementing material, and connector strips interposed between said stiffening strips and the adjacent rubber and cemented and vulcanized thereto, said stiffening strips being longitudinally separated along said hose and having an interposed cushioning layer of rubber between them.

1,352,741. FILLER COMPOSITION. ALBERT F. FRENCH, Detroit, Mich. Filed Dec. 16, 1918. Serial No. 266,932. 2 Claims. (Cl. 134—79.)

1. A filler composition comprising as essential ingredients celluloid, shellac, rosin, alcohol, and ether.

1,352,742. MICRO-DRIVE HYDRAULIC ELEVATOR. FLOYD C. FURLOW, Montclair, N. J., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 5, 1917. Serial No. 189,897. 12 Claims. (Cl. 187—29.)



1. In a hydraulic elevator system, the combination with the car, a main valve, a hydraulic motor to actuate the valve, and means automatically controlled from the car and by the motor, to control the said motor the said means comprising cams actuated by the motor, electric circuits, and switches in the said circuits actuated by the cams.

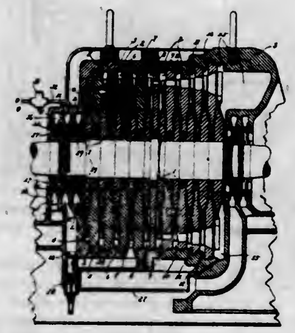
2. In a hydraulic elevator, the combination with the car, a main valve, a hydraulic motor device to actuate the valve, valve mechanism to control the hydraulic motor, electro-magnets to actuate the second named valve, manually controlled switches each controlling circuits to both electro-magnets, normally open switches controlled by the motor, in one of the circuits from each manually controlled switch to the electro-magnets, and normally closed switches controlled by the motor, in the other of the circuits from each manually controlled switch to the electro-magnets.

3. In a hydraulic elevator system, the combination with the car, a main valve, a hydraulic motor device to actuate the valve, valve mechanism to control the hydraulic motor, electro-magnets to actuate the second named valve, electro-responsive switches controlled from the car, each controlling circuits to both electro-magnets, additional switches included in each of the said circuits, and cams operable by the motor and adapted to actuate the latter named switches.

4. Controlling apparatus for hydraulic elevators comprising a controlling valve, a motor device, and a shipper sheave, the said sheave comprising an inner section positively connected with the motor device, an outer section positively connected with the main valve, and a connection between the inner and outer sections whereby operation of the sections as a unit, by the motor device is effected, but allowing the release of one section from the other if the motor device is at rest.

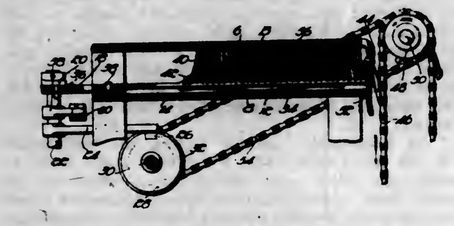
5. In a hydraulic elevator system, the combination with the car, a main valve, a motor device to actuate the valve, valve mechanism to control the motor, electro-magnets to actuate the latter named valve mechanism, connected to opposite ends of the valve stem, a single auxiliary valve to effect operation of the car independently of the main valve, and electro-magnets to actuate the auxiliary valve mechanism, connected to opposite ends of the valve stem.

1,352,743. FLUID-PRESSURE MOTOR. THOMAS HALL, Harrisburg, Pa. Filed Dec. 13, 1919. Serial No. 344,561. 7 Claims. (Cl. 253—39.)



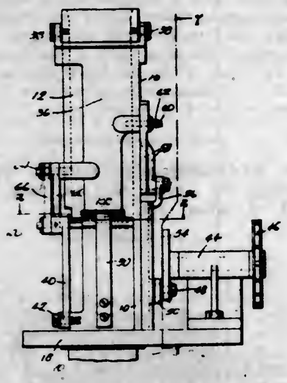
1. The combination with a turbine comprising successive stages of progressively lower pressures, of a packing chamber, a duct connecting said chamber to a low pressure stage of the turbine, a self-opening relief valve in said duct between said chamber and said low pressure stage, said relief valve having loading means tending to prevent its opening below the pressure to be maintained in said chamber, and to cause it to close when the pressure in such chamber falls to a predetermined pressure, and means for supplying working fluid at a predetermined pressure to said chamber.

1,352,744. MEANS FOR FEEDING ARTICLES IN STACKED RELATION. FRED V. HART, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 16, 1916. Serial No. 125,952. 22 Claims. (Cl. 12—42.)



13. Mechanism for feeding uniformly tapering articles having, in combination, means for clamping a plurality of said articles in face-to-face stocked relation with their thin ends spaced apart, means for feeding said stack of articles, and means for ejecting said articles from one end of the stack.

1,352,745. MEANS FOR FEEDING ARTICLES IN STACKED RELATION. FRED V. HART, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 16, 1916. Serial No. 125,953. 24 Claims. (Cl. 12—42.)

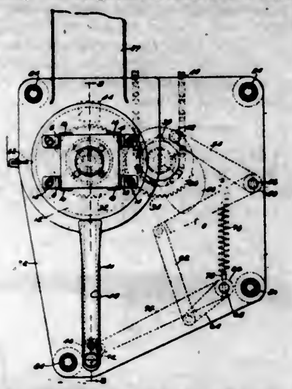


1. A shoe machine for feeding tapering articles of sheet heel material, having, in combination, means for holding the articles in a stack in face-to-face relation with their thicker and thinner extremities alternating, and means for delivering articles from the stack successively and all in similar positions with respect to their thicker and thinner extremities.

20. Mechanism for feeding substantially rigid articles of sheet material having, in combination, means including members spaced apart a distance less than the corresponding dimension of the articles for supporting an article at separated marginal points, and means for pushing the article in substantially its own plane first in one direction and then in another to feed it past the supporting members and through the space between them.

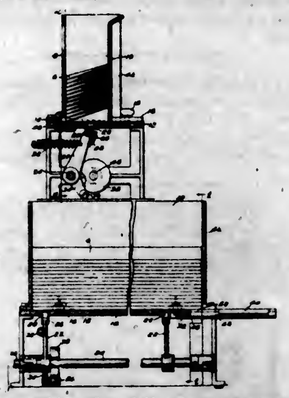
1,352,746. FEED MECHANISM. FRED V. HART, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 14, 1916. Serial No. 136,935. 21 Claims. (Cl. 12—42.)

1. Feed-mechanism having, in combination, a rotatable magazine for holding a stack of dissimilarly disposed tapering articles; means for removing articles successively from the end of the stack; and means for partially rotating the magazine between the removal of the



successive articles in such manner that the removed articles are similarly disposed.

1,352,747. FEED MECHANISM. FRED V. HART, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 22, 1916, Serial No. 99,259. Renewed Nov. 17, 1917. Serial No. 202,643. 30 Claims. (Cl. 12—42.)

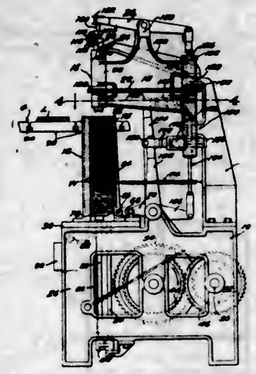


1. A shoe machine for delivering tapering pieces of sheet heel material, having, in combination, means for holding a stack of such pieces and for supporting independently the thin ends of such pieces while the thick ends rest against each other; and separate means for discharging the pieces successively from one end of the stack.

8. Feed-mechanism, having, in combination, a magazine with parallel walls between which strips of sheet-material, wider than the space between the walls, may be stacked in inclined position, one of said walls being interrupted at the bottom of the stack; and means for moving the lowermost strip first laterally into the space afforded by the interruption of said wall, and then longitudinally out of the magazine.

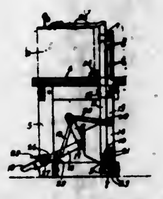
1,352,748. FEED MECHANISM. FRED VERNE HART, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 27, 1918. Serial No. 231,159. 25 Claims. (Cl. 12—42.)

1. Blank feeding mechanism having, in combination, a holder for a stack of blanks and mechanism acting to transfer the blanks successively from the stack to a point of delivery and to impart varying angular movements to the blanks in substantially the planes of their faces.



13. A stock-handling machine having, in combination, a support, an axially rotatable and longitudinally movable picker carried thereby, means for longitudinally actuating said picker, and means for rotating said picker about its axis while permitting longitudinal movements thereof.

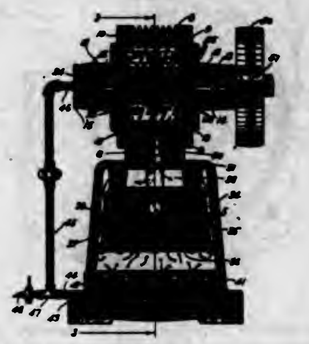
1,352,749. BOX-PRESS. WALTER V. HART, Jacksonville, Fla., assignor to Simon F. Williams, Jacksonville, Fla. Filed Aug. 1, 1919. Serial No. 314,670. 3 Claims. (Cl. 100—57.)



3. A device of the class described including a frame comprising a table and an upright, said table adapted to support a container, a guide strip adjustably secured to the table and adapted to limit the movement of the container upon the said table, a bar slidably secured to the said upright, a gripping arm extending perpendicularly from the upper terminal of the said bar and adapted to engage the cover member of the container, an adjusting plate having elongated slots formed therein, means for adjustably securing the plate to the said bar, a toggle mechanism operably connected with the adjusting plate and the frame, a link operably connected with the toggle mechanism, a composite bell crank lever operably connected with the link to thereby move the toggle mechanism past the dead center to a locking position, a lever pivotally secured to said frame and adapted to operably engage the bell crank lever to release it from its locking position, and a retractile spring to normally support the sliding bar in an elevated position.

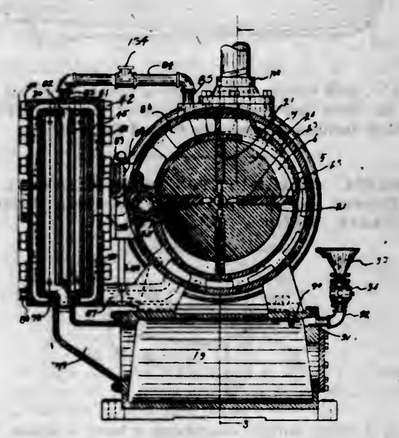
1,352,750. ROTARY AIR-COMPRESSOR. HENRY O. JACKSON, Denver, Colo., assignor to The Jackson Compressor Company, Denver, Colo., a Corporation of Colorado. Filed Jan. 19, 1918. Serial No. 212,539. 18 Claims. (Cl. 230—30.)

18. In a rotary air compressor, the combination of a chamber, a rotor eccentrically mounted therein and having an axial passage and radial slots in communication therewith at their inner extremities, blades slidable in said slots and whose outer extremities engage the inner surface of the chamber, a liquid-containing receptacle below the chamber and in communication, below the level of the liquid with the said passage of the rotor and said slots, the slots being the only outlet for the liquid after it



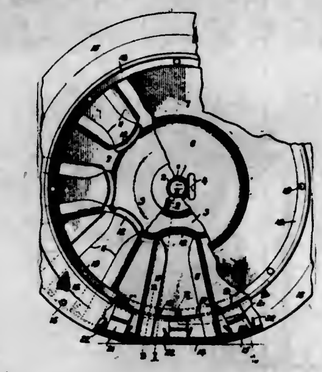
enters said passage, an air and liquid separator arranged above the said receptacle and in communication with the rotor chamber on the outlet side and with the said receptacle for the return of the liquid, and whereby the liquid in the receptacle is under the service pressure of the air when the machine is in operation for air-compression purposes.

1,352,751. ROTARY AIR-COMPRESSOR. HENRY O. JACKSON, Denver, Colo., assignor to The Jackson Compressor Company, Denver, Colo., a Corporation of Colorado. Filed June 19, 1919. Serial No. 305,312. 17 Claims. (Cl. 230—30.)



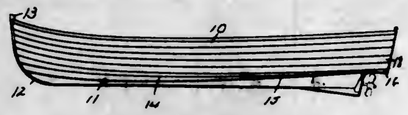
10. A rotary air compressor, comprising a chamber, a rotor therein, a liquid-containing receptacle below the rotor chamber, a connection between the receptacle and the chamber, whereby the liquid is caused to enter the chamber and pass out with the compressed air, means in communication with the compressed air outlet of the chamber for separating the liquid from the air and returning the liquid to the liquid receptacle, and a tube leading from the said receptacle above the liquid therein and whose outer extremity enters the rotor chamber outlet and extends in the direction of the passage of the fluid to the separator, to facilitate the circulation of the liquid through the system.

1,352,752. RESILIENT WHEEL. GEORGE JACOBS, Detroit, Mich. Filed Sept. 3, 1918. Serial No. 252,340. 7 Claims. (Cl. 152—30.)



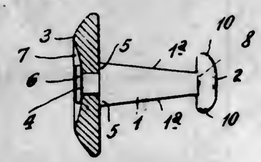
7. In a resilient wheel, a hub, an annular pneumatic member about said hub, side plates connected to said hub, a felly member supported by said side plates, double spokes extending through said felly member and engaging said pneumatic member, articulated shoes connected to the outer ends of said double spokes, an outer casing on said shoes having its edges connected to said side plates, and cushion members between said shoes and said felly member in said outer casing and held by said shoes.

1,352,753. SKIFF. STEWART B. KING, Highlands, N. J. Filed Dec. 13, 1919. Serial No. 344,559. 3 Claims. (Cl. 114—56.)



1. A skiff having a hull with a keel terminating short of the stern, the overhanging part of the stern having a bottom inclined downwardly toward the rear.

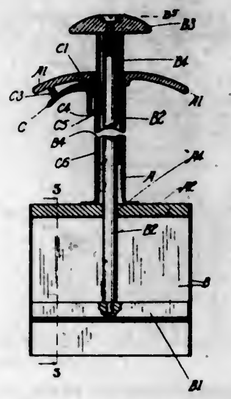
1,352,754. COLLAR-BUTTON. AMBROSE LENTATZ, West Hoboken, N. J. Filed Feb. 20, 1919. Serial No. 278,214. 4 Claims. (Cl. 24—101.)



1. A collar button, comprising a base, a shank, and a head connected at one of its sides to the outer end of the shank, the shank being narrow in a direction parallel to the vertical dimension of the head and relatively much wider horizontally for at least part of its length.

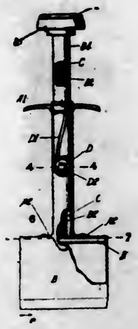
1,352,755. ICE-CREAM DIPPER. SAMUEL LEVY, Knoxville, Tenn. Filed June 30, 1919. Serial No. 307,846. 7 Claims. (Cl. 107—48.)

7. In a mechanism of the nature described, the combination of a hollow body, a tubular handle on said body, said handle having a lateral aperture, a plunger within said body, a guide tube within said handle and having a lateral aperture, a stem extending from said plunger upward through said handle and guide tube, a cross-head joined to the guide tube and the stem, and a member supported by the handle in position to permit a part



thereof to enter the aperture on the handle and also the aperture in the guide tube which at the time registers with the aperture in the handle, substantially as described.

1,352,756. ICE-CREAM DIPPER. SAMUEL LEVY, Knoxville, Tenn. Filed Sept. 16, 1919. Serial No. 324,201. 13 Claims. (Cl. 107—48.)

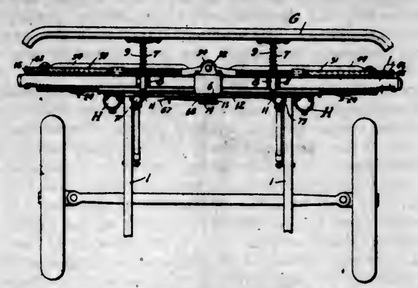


1. In a mechanism of the nature described, the combination of a hollow body, a tubular handle rigid on said body and extending in the same direction as the body, a plunger head located within said body, a stem extending from the plunger head through the tubular handle, a guide tube rotatably attached to the upper end of said stem and telescoping with the tubular handle, one of said tubular members being slotted and notched and the other bearing a stop member arranged to relatively travel in the slot and engage in the notch of the other of said tubular members, substantially as described.

1,352,757. SAFETY-FENDER. ANGELO LOSCALZO, New York, N. Y. Filed Dec. 9, 1916, Serial No. 136,082. Renewed Dec. 6, 1919. Serial No. 343,112. 19 Claims. (Cl. 293—16.)

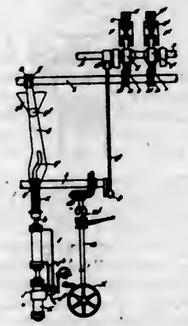
1. A device of the class described, comprising a fender mechanism, means for connecting one end of the fender mechanism to a vehicle, said means comprising in part a pivotal mounting for the fender mechanism whereby said

fender mechanism may be swung bodily in a horizontal plane for giving more convenient access to portions of



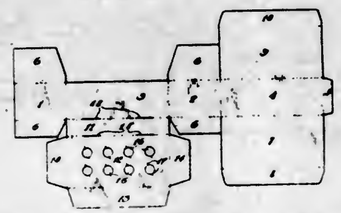
the vehicle, and independent supporting means for connecting the opposite end of the fender mechanism to the vehicle.

1,352,758. VALVE-GEAR OF INTERNAL-COMBUSTION ENGINES. JAMES MCKECHNIE, Barrow-in-Furness, England, assignor to Vickers Limited, London, England. Filed Feb. 27, 1920. Serial No. 361,806. 7 Claims. (Cl. 123—41.)



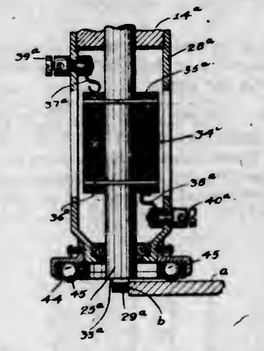
1. In reversing valve gear for internal combustion engines, axially displaceable forward and reverse cams, a valve lever adapted to coöperate with the said cams, a pivoted slotted lever for effecting the axial displacement of the cams, means engaging in the lever slot for turning the said lever through an angle for reversing purposes and means associated with the said slotted lever for raising the valve lever clear of the cams during their sliding movement.

1,352,759. CARTON. JOHN P. MARKERT, New York, N. Y. Filed June 28, 1919. Serial No. 307,279. 3 Claims. (Cl. 229—16.)



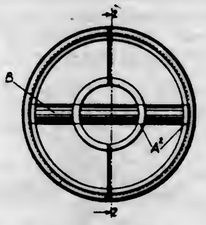
1. A carton including side walls formed from a single continuous strip of material and having their upper edges on substantially the same plane, a bottom, a top, an intermediate shelf adapted to lie transversely of the carton between said top and bottom when in closed position, means for hingedly connecting one edge of the shelf to one side of the carton with said edge located against said side and below the upper wall edge thereof, an integral flap carried by said shelf and extending downwardly into engagement with the carton bottom, and an integral flap carried by said shelf and extending upwardly into engagement with the carton top the construction being such that said shelf is held positively against both upward and downward movement by the engagement of said extensions with the top and bottom of the carton, when closed, and the carton may be collapsed diagonally by folding said shelf outwardly about said hinged connection.

1,352,760. UNIVERSAL METAL-CUTTING APPARATUS. STUART PLUMLEY, Westfield, N. J., assignor to Davis-Bournonville Company, New York, N. Y., a Corporation of New York. Filed Jan. 13, 1919. Serial No. 270,835. 18 Claims. (Cl. 266—23.)



16. In an apparatus of the kind described, having a frame universally movable in horizontal directions, a mechanically-driven tracer device comprising a member rotatable about a vertical axis and having coaxial friction-top-bearing and roller-side-bearing portions to coöperate with a guide or templet.

1,352,761. SPLIT PULLEY. GEORGE E. ST. JOHN and CLYDE BOWMAN, Hammond, Ind. Filed Sept. 2, 1919. Serial No. 321,111. 10 Claims. (Cl. 64—18.)

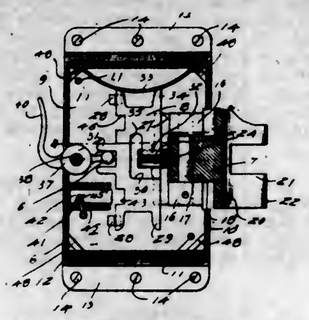


1. A split pulley, a pin adapted to secure it to a shaft, a single means for holding the parts of said pulley together and for holding said pin in place.

1,352,762. UNIVERSAL LOCK AND LATCH. AUGUST J. SCHULTZE, Galveston, Tex. Filed Oct. 31, 1919. Serial No. 334,803. 3 Claims. (Cl. 292—216.)

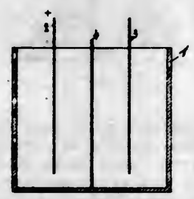
1. In a lock, a base plate, a latch member pivoted on the base plate, a supported keeper to be engaged by the latch member, an extension carried by the pivoted end of the latch member and provided with recesses in its upper face, one of the side walls of one of the recesses being inclined upwardly, a longitudinally movable member mounted on the base plate and adapted to engage in the recess provided with the inclined wall to retain the latch member in a position to move into engagement with the

keeper, the longitudinally movable member being lifted out of said notch upon being engaged by the inclined wall



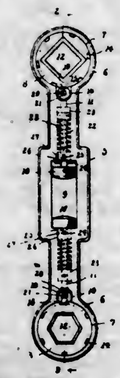
upon the pivotal movement of the latch member, and engaging the other notch to retain its latch member in locked engagement with the keeper.

1,352,763. DIAPHRAGM FOR ELECTROCHEMICAL AND ELECTRO-OSMOTIC PURPOSES. BOTHO SCHWEAIN, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 16, 1914. Serial No. 839,085. 1 Claim. (Cl. 204—28.)



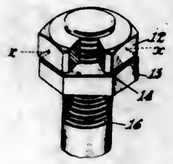
A diaphragm for use between the electrodes of an apparatus for electrochemical and electro-osmotic purposes which consists of an imperforate, colloidal partition formed of cellulose which is regenerated and is homogeneous and chemically uniform so as to receive electric current uniformly throughout the entire mass.

1,352,764. RATCHET-WRENCH. THADDEUS SEVERÉN, Bridgeport, Conn. Filed Apr. 16, 1919. Serial No. 290 460. 1 Claim. (Cl. 81—60.)



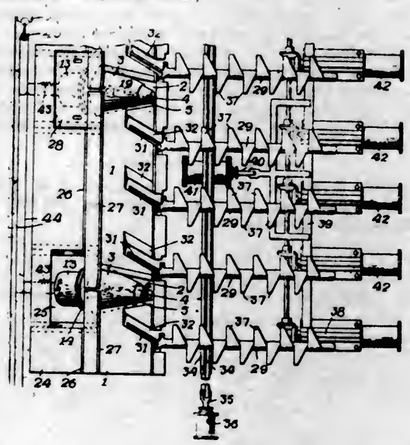
In a ratchet wrench of the class described, the combination with a handle having a headed end portion with a cylindrical chamber therein and an opening distant from the chamber, said handle having a hole extending therethrough from the opening to the chamber, a bushing having a headed socket formed therein adapted to fit in the chamber, said bushing being provided with a series of transverse parallel grooves in the outer surface, and an annular shoulder upon one end, a turn button to hold the bushing in position, said bushing having an annular groove in its periphery into which the turn button is received for maintaining the bushing in the handle chamber, the transverse grooves extending from one end of said bushing and terminating at the flange at the opposite end thereof with the transverse and annular grooves intersecting at the end of the bushing opposite the flange, the base of the annular groove being spaced outwardly from the base of the said transverse grooves, a pawl mounted in the hole to engage the grooves in the bushing, a collar mounted upon the pawl and a collar within the hole of the handle, a spring positioned around the pawl intermediate of the two said collars to normally hold the pawl in engagement with the bushing, the said handle having slots in its opposite side portions adjacent to the pawl, a pin mounted in the pawl to engage the said slots and also adapted to be shifted to support the pawl out of engagement with the bushing and against the action of the spring, said bushing being capable of removal from the handle with the pawl remaining in the adjacent transverse groove.

1,352,765. LOCK-NUT. HENRI ALFRED SÉVIGNÉ, Winthrop, Mass. Filed Feb. 6, 1920. Serial No. 356,612. 3 Claims. (Cl. 151—21.)



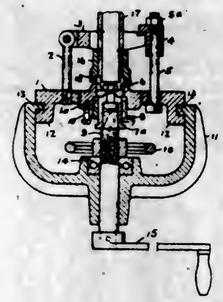
2. A nut having all of its threads continuous, said nut being partially divided transversely and having its inner and outer portions relatively offset laterally.

1,352,766. CONVEYING MECHANISM. JOHN W. SHEPERDSON, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 18, 1917. Serial No. 186,874. 18 Claims. (Cl. 193—1.)



1. In an apparatus of the class described, the combination with a series of bearing members each rotatable about a vertical axis, of a shaft journaled in each of said bearing members at an angle to the axis of the bearing member, a conveyer roll attached to one end of said shaft, and a motor operatively connected to the opposite end of said shaft and supported by said bearing member.

1,352,767. PIPE-JOINING DEVICE. BENNET CARROLL SHIPMAN, San Francisco, Calif. Filed Jan. 8, 1919, Serial No. 269,446. Renewed Feb. 10, 1920. Serial No. 357,520½. 11 Claims. (Cl. 90—12.)



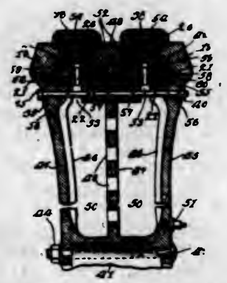
1. In a pipe joining device, the combination of a recessed union, with a tool adapted to be secured firmly to the pipe and to be seated in the recess of the union, and having a cutter movably mounted adapted to cut away the outside of the pipe to an extent transversely exceeding the depth of the thread on said pipe, and longitudinally equaling the depth of the recess in said union.

1,352,768. PROCESS FOR PRODUCING TANNATE-LIME COMPOUND DIFFICULTLY SOLUBLE IN DILUTE ACIDS. RUDOLF TAMBACH, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Mar. 10, 1917. Serial No. 153,984. 2 Claims. (Cl. 167—7.)

1. The process for producing basic tannate of calcium which consists in heating a solution of calcium hydroxid, tannic acid and water for such a period as to render the product difficult in dissolving in dilute acid, filtering the product thus produced, washing the same with water and then drying and finally powdering and screening the product.

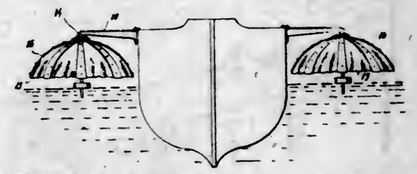
2. The process for producing basic tannate of calcium which consists in heating a solution comprising 2 kg. of calcium hydroxid, 5 kg. of tannic acid and 25.1 of water to about 100° C. for a period of about six hours or until a test of the product of reaction will be found to difficultly dissolve in dilute acid, filtering the product and washing it with water, and then drying the product and powdering and screening the same.

1,352,769. RESILIENT WHEEL. AUGUST W. TESCH, Lansing, Ill. Filed Feb. 2, 1920. Serial No. 355,692. 6 Claims. (Cl. 152—10.)



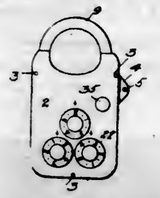
1. In a wheel of the class described, the combination with a hub, of a circular hollow body concentrically mounted around the same and supported thereby and having an inlet opening, spaced apart circumferentially extended jaws at the outer periphery of said body, each of said jaws having its inner face circumferentially grooved and provided with an inwardly extended floor, a resilient channeled tread piece located circumferentially in the space between said jaws and an orificed core located circumferentially in the channel of the tread piece.

1,352,770. FLOAT FOR BOATS. SAMUEL E. VAN HORN, Manhasset, N. Y. Filed Feb. 21, 1919, Serial No. 278,378. Renewed Mar. 26, 1920. Serial No. 369,047. 3 Claims. (Cl. 9—3.)



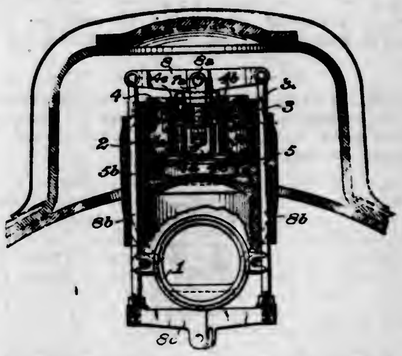
1. Floats for boats formed of waterproofed flexible material arranged in the form of an umbrella, and adapted to open to act as a float upon striking the water.

1,352,771. COMBINATION-LOCK. FRANCIS C. VARTULI, Winooski, Vt. Filed May 22, 1920. Serial No. 383,423. 11 Claims. (Cl. 70—113.)



1. In a combination lock, the combination of a casing provided with a knob device, a shackle slidably mounted in said casing, said shackle provided with a spring-pressed dog, means formed upon said knob device for receiving and holding one end of the dog for retaining the shackle in a locked position within the casing, and a spring in the casing and pressing against a portion of the shackle for forcing the shackle outwardly when the knob device is operated for releasing the dog.

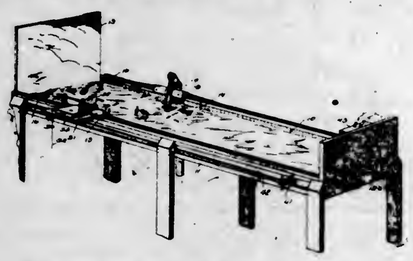
1,352,772. THROTTLE-VALVE. HARRY S. VINCENT, Ridgewood, N. J. Filed Sept. 26, 1919. Serial No. 326,626. 5 Claims. (Cl. 277—37.)



1. The combination of a steam supply pipe; a single seated poppet throttle valve controlling said pipe; a sub-

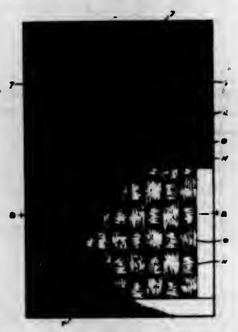
stantially balanced poppet pilot valve, having opposite end faces, each fitting a seat in said throttle valve, said pilot valve being movable relatively to the throttle valve; and means for successively unseating the pilot valve and the throttle valve.

1,352,773. SPOTTER'S TRAINING DEVICE. HARRY A. WENTWORTH, Spokane, Wash., assignor to The Government of the United States. Filed Feb. 18, 1919. Serial No. 277,734. 39 Claims. (Cl. 124—15.)



39. The method of training spotters which consists in simulating splashes of projectiles in the vicinity of a miniature target movable within a restricted area and at relatively close range and determining the relative location of the splashes with respect to said miniature target whereby corrections in range or deflection may be applied.

1,352,774. COMPOSITE SHEET. EDWARD H. ANGIER, Framingham, Mass. Filed Nov. 11, 1915. Serial No. 60,921. 3 Claims. (Cl. 128—156.)



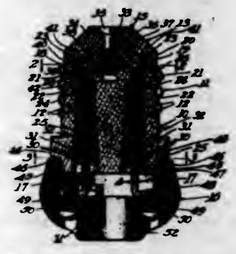
1. An absorbent pad for surgical and like uses, comprising a tray having upturned edges and formed of paper having a waterproof coating and an absorbent body formed of separate crumpled pieces of paper set side by side.

1,352,775. SPARK-PLUG. GEORGE A. BELL, Silver Creek, N. Y., assignor of one-half to Le Roy C. Hammond, Silver Creek, N. Y. Filed May 26, 1917. Serial No. 171,140. 3 Claims. (Cl. 123—169.)



1. A spark plug provided with a pair of alined electrodes, a cleaning device comprising a comparatively small body having a center bore and a counterbore at one end of said center bore, said center bore being adapted to receive said electrodes and permit lengthwise movement of said body on said electrodes, said body having a passage extending therethrough from the periphery thereof to said counterbore.

1,352,776. SEPARABLE ATTACHMENT DEVICE. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 1, 1915. Serial No. 18,455. 7 Claims. (Cl. 173—343.)



1. In a device of the character described, an insulating base having a recess therein provided with an abutment, and an opening leading from said recess adjacent said abutment, a flat metal retaining member extending through said opening and having a shoulder engaging said abutment, and a pair of spring contacts within said recess secured to opposite sides of said retaining member out of engagement with said abutment.

2. In a device of the character described, an insulating base having an elongated recess therein, a pair of contact blades extending longitudinally of said recess, the walls of said recess extending beyond said blades, the ends of said blades having guide portions narrower than said blades extending away from each other, said base having additional recesses narrower than said blades to afford clearance for the projecting ends of said fingers.

3. An attachment plug receptacle having an insulating body pierced to afford a contact chamber, a receptacle terminal in said chamber and a tongue and groove engagement between said terminal and a wall of said chamber, said tongue being arranged to prevent the entry of the jack of a coöperating plug into engagement with one side of said terminal for the purpose described.

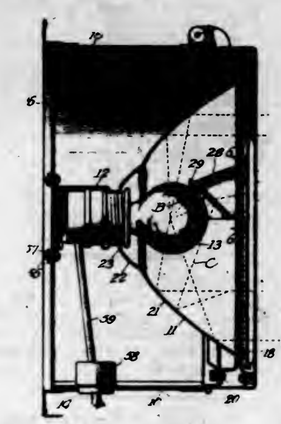
4. An attachment plug receptacle having an insulating body pierced to afford a contact chamber, a receptacle terminal in said chamber and a tongue and groove engagement between the free end of said terminal and the wall of said chamber, said tongue being arranged to prevent the entry of the jack of a coöperating plug into engagement with one side of said terminal.

5. An attachment plug receptacle having an insulating body pierced to afford a contact chamber, a receptacle terminal in said chamber and a tongue and groove engagement between said terminal and the wall of said chamber, said tongue being arranged to prevent the entry of the jack of a coöperating plug into engagement with one side of said terminal, the engaging parts being of less width than the width of the terminal.

1,352,777. ILLUMINATING DEVICE. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 18, 1916. Serial No. 72,699. 13 Claims. (Cl. 240—44.)

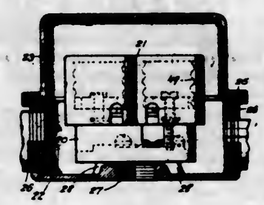
1. A receptacle for electric lamps comprising an insulating base, a casing for said base, means for adjustably supporting said base for universal movement in said

casing, and means mounted on said base and movable therewith for electrical connection with a lamp and for



mechanically securing said lamp to said base to move therewith.

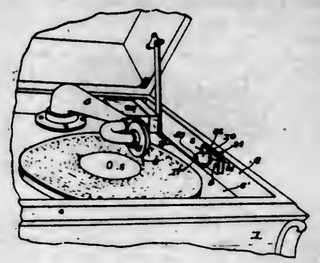
1,352,778. COMBINED CONNECTING-BLOCK AND FUSE-BLOCK. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 3, 1918. Serial No. 243,144. 9 Claims. (Cl. 175—369.)



1. The combination of a connecting block, a pair of connecting plates carried thereby, binding terminals for said connecting plates, an insulating block mounted on said connecting block and formed with a recess, a shell contact in said recess, said block having an aperture communicating with said recess, a binding terminal for said shell contact accessible through said aperture, and means for securing said insulating block to said connecting block, said means also providing a center contact corresponding to the shell contact and communicating with one of the connecting plates on the connecting block.

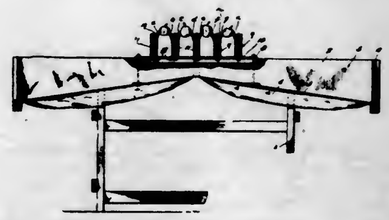
1,352,779. PHONOGRAPH-LIGHTING ATTACHMENT. GEORGE E. BERNECKER, Milwaukee, Wis., assignor to Standard Accessory Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 30, 1919. Serial No. 293,704. 3 Claims. (Cl. 240—2.)

1. A lighting attachment for sound reproducing machines comprising a fixed panel of a conductive material and having a guide channel in one straight face thereof, a lamp having one terminal grounded to the panel and its other terminal insulated from the panel and connected with one of two electrical feed wires, a contact in the bottom of the guide channel and insulated from the panel, the other of said feed wires being connected with said contact, and a switch member mounted in said guide



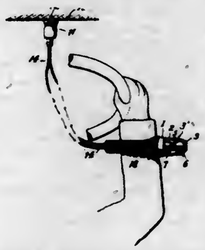
channel and grounded directly to the panel and movable to engage said contact.

1,352,780. FRUIT-GRADING MACHINE. MILTON W. BIRD, Wenatchee, Wash. Filed Aug. 21, 1919. Serial No. 318,912. 9 Claims. (Cl. 130—32.)



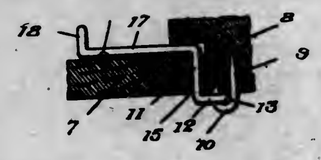
1. In a machine of the class described, sorting mechanism including an endless series of rolls, means for imparting travel to the series, and spaced elements arranged in the path of movement of the upper stretch of the series for coaction with the rolls to individually rotate the same.

1,352,781. AUTOMOBILE SIGNALING DEVICE. BENJAMIN BIRKENFELD, New York, N. Y. Filed Apr. 24, 1919. Serial No. 292,435. 1 Claim. (Cl. 177—339.)



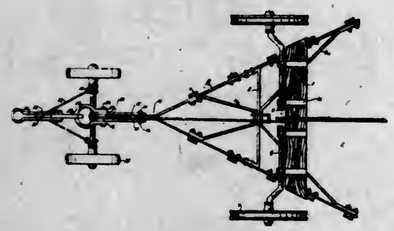
A signaling device of the kind described comprising a band adapted to be detachably engaged about the forearm, a supporting base mounted to be securely carried on the outer face of the band, an electric lamp socket opening outwardly from the base, an electric lamp having a plug to engage the socket, said plug being of a length to project outside of the socket when engaged therein with the lamp bulb standing out prominently from the forearm entirely clear of and at a substantial distance from the lamp socket, a guard for the lamp consisting of a wire frame secured to said supporting base and extending outwardly therefrom over the lamp bulb, and means for supplying current to the lamp.

1,352,782. HINGE OR HANGER. JAMES G. BROOKS, Rushville, Nebr. Filed June 4, 1920. Serial No. 386,445. 4 Claims. (Cl. 16—48.)



3. In a hinge construction, the combination with a frame and a barrier, of hinge members carried by the frame, and pivoted hinge members carried by the barrier, the hinge members having loops and hooks movable into and out of engagement in one position of the barrier and so arranged as to prevent disengagement in the other position of the barrier.

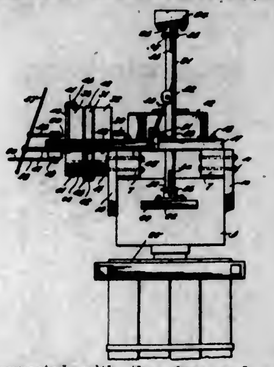
1,352,783. CULTIVATOR. ARTHUR O. COX and PETER SAGER, Watsonville, Calif. Filed July 22, 1919. Serial No. 312,528. 6 Claims. (Cl. 97—34.)



6. The combination with the main frame of a cultivator of a pair of wheels supporting the rear end of the frame, means for raising or lowering the rear ends of the frame with relation to the rear wheels, an axle and a pair of wheels supporting the front end of such frame, a plate, a king bolt turnably mounted on the plate, a fork-shaped member on the lower end of the king bolt through which the axle extends, a pin extending through the fork-shaped extension and the axle, an arm rigidly secured to the plate, a pivotal connection between the arm and the front end of the main frame, a second arm extending upwardly from the first-named arm, a lever pivotally mounted on the main frame, a grip actuated pawl on the lever, a rock bar with which said pawl is engageable, a link connection between the second named arm and the lever, a shackle ring pivotally attached to the first named arm, a draw-bar connected with the shackle, such draw-bar having a longitudinally disposed slot formed therein, a sliding block in said slot, and a pair of links connecting said block with the axle ends.

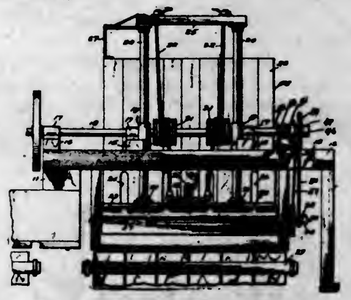
1,352,784. POWER REVERSING MECHANISM. THEODORE R. CAMERON, San Antonio, Tex. Filed Mar. 20, 1919. Serial No. 283,842. 4 Claims. (Cl. 64—4.)

1. A power reversing mechanism, comprising a support, a transverse driving shaft journaled in bearings on said support, a beveled gear connected with the driving shaft, an operating screw arranged near said bevel gear, a second beveled gear having screw-threaded engagement with the operating screw and meshing with first named beveled gear, a movable member connected with one end of the operating screw, a tight pulley secured to the transverse driving shaft, loose pulleys carried by the driving shaft and arranged upon opposite sides of the tight pulley, a plurality of belts engaging the pulleys, a belt shifting device comprising a tappet lever, rings secured to a portion of the movable member, and tappets



adjustably connected with the rings and arranged to contact with the tappet lever.

1,352,785. FEEDING APPARATUS FOR BALING-PRESSES. THEODORE R. CAMERON, San Antonio, Tex. Filed Sept. 2, 1919. Serial No. 321,208. 6 Claims. (Cl. 100—25.)



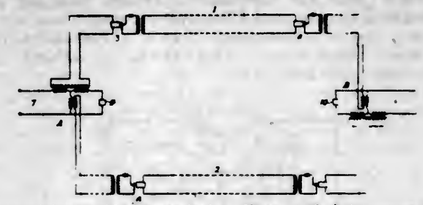
3. In a baling press, a ram, a lint shield carried by said ram, a rotatable shaft, means operated by the rotation of said shaft for raising and lowering said ram and lint shield, a rotatable paddle shaft provided with a brake, means positively connecting said first named shaft and said paddle shaft during a portion of the upward travel of said ram and lint shield whereby said paddle shaft is rotated, means for applying said brake when the shafts are not positively connected, and means actuated by the rotation of said first named shaft for rotating said paddle shaft, said brake preventing the rotation of said paddle shaft, when said ram and lint shield are being lowered.

6. In a baling press, a ram, operating means therefor embodying a rotatable shaft, a member mounted upon said shaft and normally stationary with relation thereto, said member being adapted, when the shaft has rotated a predetermined number of revolutions in one direction, to engage said shaft and rotate therewith, and means carried by said member for limiting the rotation of said shaft and member after the engagement of said shaft by said member.

1,352,786. FOUR-WIRE TRANSMISSION SYSTEM. GEORGE A. CAMPBELL, Montclair, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 17, 1916. Serial No. 72,606. 12 Claims. (Cl. 179—170.)

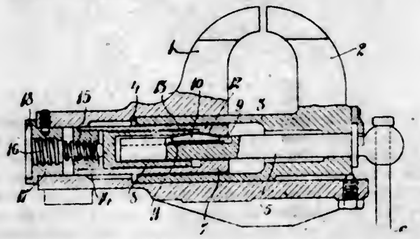
1. A transmission system comprising two stations, two transmission lines connecting said stations for tranmission in opposite directions, means at said stations interconnecting the ends of said lines, said means being so arranged that the transmission from one line to the other

is relatively small, and one-way repeaters in said transmission lines, the total transmission loss over the circuit



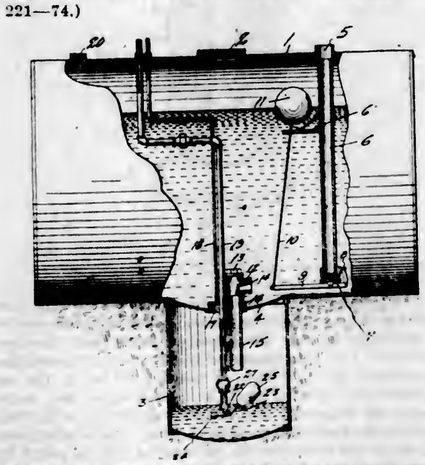
comprising said transmission lines and interconnecting means being at least equal to the amplification due to the repeaters.

1,352,787. PARALLEL BENCH-VISE. GUNNAR ELIAS CASSEL, Stockholm, Sweden, assignor to Aktiebolaget Gyro, Stockholm, Sweden, a Corporation of Sweden. Filed Feb. 17, 1920. Serial No. 359,477. 4 Claims. (Cl. 81—33.)



4. A bench vise, comprising in combination a fixed jaw, a jaw freely movable with respect to the fixed jaw, a bolt rotatably mounted in the movable jaw, there being longitudinal slots in said bolt, a fixed nut, wedge-shaped locking members in said slots, two sleeves movably mounted in the jaws and one of which is movably mounted within the other, said sleeves being engaged by the bolt and having inclined surfaces for engagement with said sleeves, and a screw engaging with said sleeves so as to cause a relative longitudinal movement thereof upon rotation of the sleeves.

1,352,788. LIQUID STORAGE AND DISPENSING APPARATUS. JOHN J. CATRON, Bonham, Tex. Filed May 2, 1919. Serial No. 294,277. 8 Claims. (Cl. 221—74.)



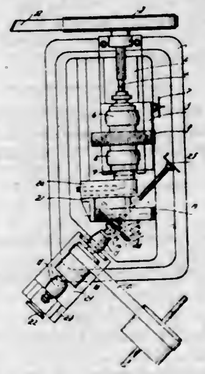
1. A liquid storage and dispensing apparatus, comprising a storage tank, an inlet pipe leading into the storage tank, a valve to close the inlet pipe, float controlled means to close the valve when the liquid reaches a predetermined level in the storage tank for permanently maintaining a space in the upper portion of the storage tank, a pressure tank arranged near the storage tank, a supply pipe having one end leading into the pressure tank and its opposite end leading into the storage tank, a check valve to close the supply pipe and seated by pressure within the pressure tank, an outlet pipe leading into the pressure tank, float control means to close the outlet pipe and arranged within the pressure tank, and a pressure supply pipe leading into the pressure tank.

1,352,789. COMBINED DENTAL MIRROR AND SYRINGE. JOSEPH E. CRAIG, Gary, Ind. Filed May 15, 1920. Serial No. 381,636. 4 Claims. (Cl. 128—10.)



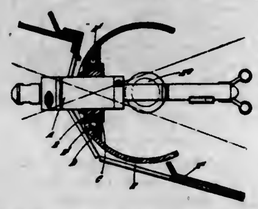
1. In a dental syringe, a bent tubular body open at its ends, a bulb mounted on one end of the body, an adjustable nozzle mounted on the opposite end of the body, an air-tube disposed in said body and having one end extending into the bulb, the other end of said tube projecting through the wall of the body, and a tension valve for controlling the flow of air through said tube.

1,352,790. MACHINE FOR GRINDING CONCAVE SPHERICAL SURFACES. AXEL DANIELSSON, Gottenborg, Sweden. Filed Oct. 7, 1919. Serial No. 329,178. 1 Claim. (Cl. 51—48.)



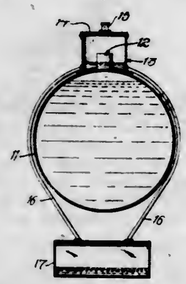
A machine for grinding concave spherical surfaces comprising in combination a rotatable shaft, a grinding-tool on one end thereof, another rotatable shaft, a holder on the last mentioned shaft for supporting a ring-shaped work-piece so as to leave a free space between the work-piece and the opposing end surface of the holder, and means for journaling said shafts so that their center lines intersect each other in the center of the spherical surface to be ground, substantially as and for the purpose set forth.

1,352,791. GUN-MOUNTING. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Dec. 16, 1919. Serial No. 345,443. 5 Claims. (Cl. 89—37.)



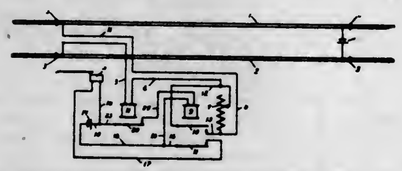
1. In a gun mounting, the combination with the gun and the part which supports it, of a universal joint device between the gun and the said part, this device comprising two part-cylindrical members, having their curved surfaces at right angles to each other and being so arranged that during training of the gun one of them moves about a vertical axis and during the elevation of the gun the other of them moves about a horizontal axis.

1,352,792. FUEL-TANK. JOHN L. DAY, Memphis, Tenn. Filed Apr. 29, 1920. Serial No. 377,530. 2 Claims. (Cl. 220—86.)



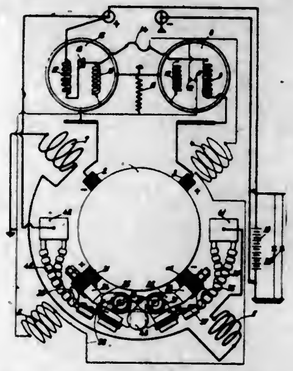
1. A portable fluid tank having an upper filling spout, a cylinder around the filling spout in spaced relation and extending thereabove, a valved cap for normally closing the cylinder, a waste storage tank, and a pipe connection leading from the lower portion of the cylinder to the said waste tank as described.

1,352,793. RAILWAY SIGNALING SYSTEM. FRANK L. DODGSON, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed July 1, 1916. Serial No. 107,019. 12 Claims. (Cl. 246—41.)



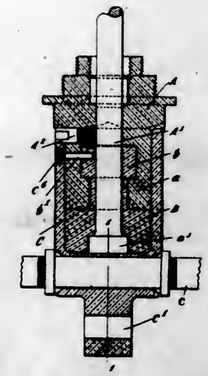
4. In a signaling system for railways, a track circuit comprising a source of electromotive-force and a relay, a resistance external to the windings of said relay, a movable device for controlling the inclusion and exclusion of said resistance in and from the path of the main circuit through the windings of said track relay, and means for causing said movable device to be controlled upon the movement of the armature of said relay to its extreme positions.

1,352,794. ELECTRIC STARTING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. AUGUSTE DUTREUX, Issy Les Moulineaux, France, assignor to Société Anonyme pour l'Eclairage Electrique des Vehicules, Issy Les Moulineaux, France, a Corporation of France. Filed Feb. 17, 1917. Serial No. 149,262. 2 Claims. (Cl. 290—31.)



1. In an electric machine adapted to operate as a generator or a motor, a pair of brushes for the same when operating as a generator, a second pair of brushes for the same when operating as a motor, means for putting the latter brushes in contact with the commutator and means operable to establish an electrical contact between said latter brushes and the accumulators, after said brushes have engaged the commutator, and subsequently operable to permit the movement of said brushes out of contact with the commutator subsequently to breaking the contact between these brushes and the accumulator.

1,352,795. SUBMARINE MINE. GIOVANNI EMANUELE ELIA, Westminster, England, assignor to Vickers Limited, Westminster, England. Filed June 20, 1917. Serial No. 175,726. 11 Claims. (Cl. 102—3.)

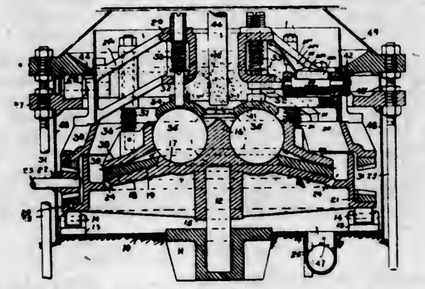


1. In firing gear for submarine mines of the type comprising a buoyant chamber for an explosive and an anchor for normally holding the chamber submerged, the combination of a socket adapted to be secured to the chamber, a firing-rod for the mine, a member to which the rod is connected, coacting parts on the member and socket forming an interlock, and a casing inclosing said coacting parts and secured to said member, said casing being adapted to be connected to the anchor and to carry the firing-lever by which the member is turned relatively to the socket.

1,352,796. WATERPROOF FIBROUS MATERIAL AND PROCESS OF MAKING SAME. JAMES P. ELLIOTT, Chicago, Ill. Filed Sept. 14, 1917, Serial No. 191,341. Renewed July 8, 1920. Serial No. 394,804. 10 Claims. (Cl. 91—68.)

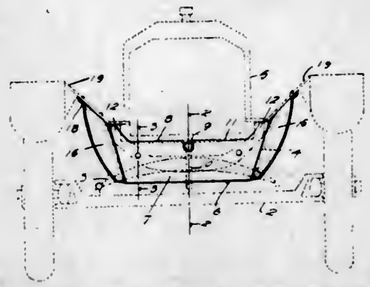
1. The process of producing a water-proofed body or sheet of any desired color which consists in making it of pulp having small particles of waterproofing material distributed throughout the mass thereof, and then immersing it in a hot bath having the desired color, to melt the aforesaid small particles of waterproofing material and at the same time cover the body or sheet with a coating of the desired color.

1,352,797. CRUSHING-MACHINE. WILLIAM ELLE, Pittsburgh, Pa., assignor of one-half to Joseph Sinkovitz, Carrick, Pa. Filed Mar. 26, 1919. Serial No. 285,170. 8 Claims. (Cl. 83—45.)



8. A crushing machine comprising a pair of superposed grinding members mounted to rotate one upon the other, a casing surrounding said grinding members so as to provide a chamber for the ground particles, a hood above said grinding members for connection with an exhaust means, and supplementary means for crushing any particles falling back from said hood and returning them to said chamber.

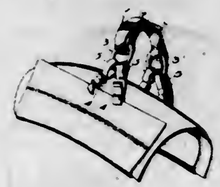
1,352,798. MUD AND DUST SHIELD FOR AUTOMOBILES. OSCAR R. EMERY, Milwaukee, Wis. Filed Jan. 14, 1920. Serial No. 351,431. 4 Claims. (Cl. 180—59.)



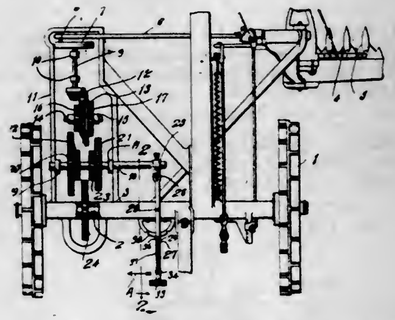
2. A shield comprising an elongated body adapted to close the space between the lower edge of the radiator and the front end of the chassis of an automobile, an inwardly directed flange formed on said body and underlying the radiator, extensions formed on the upper corners of said body and lying in close proximity to the chassis, and means securing the body to an automobile.

1,352,799. PATCH-HOLDER. CLARENCE ALBERT ERDLEY, Mifflinburg, Pa. Filed Aug. 6, 1919. Serial No. 315,711. 1 Claim. (Cl. 24—81.)

A device for holding an inside blow-out patch within a tire while the tire is being placed upon a rim, the blow-out patch including flaps passing beneath the beads of the tire; comprising clasps engageable with the flaps of the patch, and a member connecting the clasps and adjustable whereby to be drawn snugly against the outer periphery of the tire to hold the flaps firmly against the sides of the tire whereby to prevent folding of the flaps into the tire or shifting of the patch.



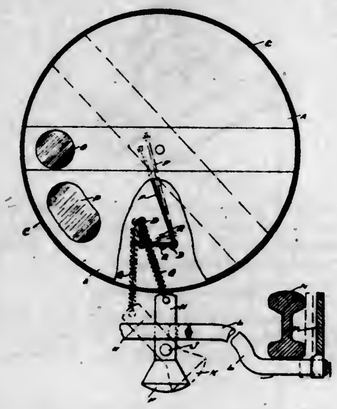
1,352,800. GEAR-SHIFT MECHANISM FOR MOWING-MACHINES. PAUL L. ETCHISON, Musella, Ga. Filed Sept. 12, 1917. Serial No. 190,994. 2 Claims. (Cl. 74—58.)



1. A gear shift comprising an axle, a gear wheel mounted on said axle for rotation therewith, a pair of shafts spaced in parallel relation with respect to one another and with respect to said axle, a driving gear mounted on one of said shafts, gears of different diameters mounted on said shaft to either side of said driving gear, the second shaft between the first mentioned shaft and the axle being slidably mounted for longitudinal movement, pairs of shift gears mounted in spaced relation upon said second shaft, means for sliding said second shaft to bring one of the shift gears of either pair into operative engagement with the gear on said axle and the other gear of said pair into operative engagement with one of the gears on the first mentioned shaft, and means for locking said second shaft in adjusted position.

2. A gear shift comprising an axle, a gear mounted on said axle, a shaft parallel with said axle and carrying a driving gear and gears of different diameters to either side of said driving gear, an intermediate shaft positioned between said first mentioned shaft and said axle and parallel therewith, spaced pairs of shift gears carried upon said intermediate shaft, a lever connected with said intermediate shaft for moving the latter longitudinally to bring one of said shift gears of one of said pairs into operative connection with the gear on said axle and the other gear of said pair into operative connection with one of the gears on the first mentioned shaft, a pivoted foot operated member carried by said lever, and means connected with said pivoted foot operated member for normally locking said lever against movement, said foot operated member being normally held in one position by the last mentioned means and serving as the member by which the lever may be released and moved in either direction when released.

1,352,801. RAILWAY-SIGNAL. FREDERICK JOHN EVANS, Barry, Wales. Filed Feb. 28, 1920. Serial No. 362,011. 23 Claims. (Cl. 246—476.)



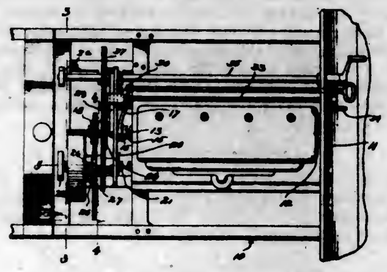
1. The combination of a railway signal, points, and a snap action lever so connecting the said signal to the points that the signal is at danger except when the points are substantially closed.

1,352,802. WATER-HEATER. LOUIS F. FAUST, Comfort, Tex. Filed July 25, 1919. Serial No. 313,140. 1 Claim. (Cl. 122—115.)



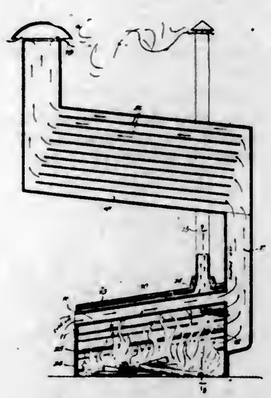
In a water heater, a bottom being provided at its periphery with a base flange, an outer shell having its lower end fitting within the base flange and resting upon said bottom, an inner shell disposed in spaced concentric relation within the outer shell for forming therewith a dead air space, said inner shell having its upper and lower ends bent outwardly to engage the inner surface of the outer shell, the lower end of the inner shell contacting with the outer shell adjacent its engagement with the base flange and thereby serving to reinforce and stiffen the same, legs supporting the base flange and secured thereto, a cover secured to the upper end of the outer shell, a water tank arranged in spaced concentric relation within the inner shell and having longitudinal flues, elements secured to the inner shell and supporting the lower end of the water tank, and inlet and outlet pipes for the water tank serving to connect the cover and water tank and retaining the proper concentric position of the tank with relation to the inner shell.

1,352,803. AUTOMOBILE-STARTER. HENRY C. FENTRESS, Glen Dean, Ky. Filed Oct. 21, 1919. Serial No. 332,334. 4 Claims. (Cl. 74—7.)



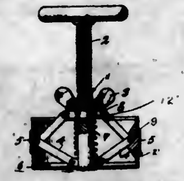
1. In an engine starter, the combination of a sectional engine shaft, one of the sections is normally disconnected from the other and adjustable into engagement therewith, a train of gearing operatively connected to the first named section for rotating the same, means for shifting one of the gears into and out of operative connection with the others, means for operating said train of gearing when the gears thereof are in operative relation, and a fly wheel yieldably connected to one of said gears.

1,352,804. HOT-AIR HEATER. JOHN W. FIEBER, Shaw, Oreg. Filed Apr. 30, 1919. Serial No. 293,662. 1 Claim. (Cl. 126—109.)



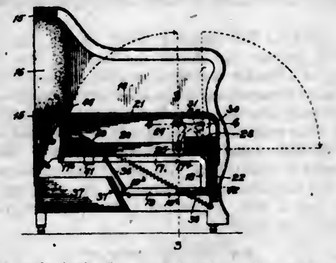
A hot air heater including a portable casing of inverted U-form in cross section tapering from one end to the other and having small and large front and rear walls respectively, said casing having an open base and adapted to rest at its lower side edges on the ground, a plurality of air flues inclined within the heating chamber formed by said casing, in a series following the contour of the casing and opening at their opposite ends through the said front and rear walls, said flues being spaced from one another and from the casing in parallel relation, and a hot air pipe connected at its lower portion to the rear wall of the heater and in communication with the upper rear ends of the several air flues of the series, said casing having a door and an air inlet in its said front wall and an upper outlet adjacent to the rear wall, as described.

1,352,805. COMMUTATOR-GRINDER. FRED E. FULLER, Portland, Oreg. Filed Apr. 21, 1919. Serial No. 291,769. 6 Claims. (Cl. 51—187.)



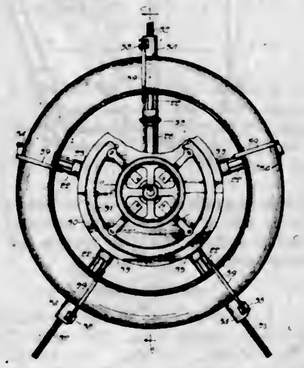
1. A grinder, comprising a body with openings, and abrasive means inside the body, with associated means projecting the abrasive means out of the opening.

1,352,806. SOFA-BED. JULIUS J. GRUENFELD, JR., Chicago, Ill. Filed Sept. 13, 1916. Serial No. 119,817. 4 Claims. (Cl. 5—51.)



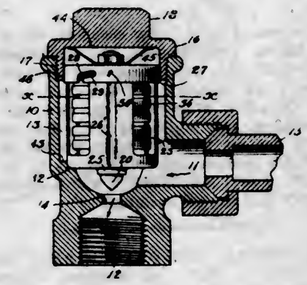
1. In a sofa bed, the combination of a sofa frame, a bed comprising foldably connected sections and connections between the sides of the bed and the frame respectively, each comprising a plurality of pivots and means for causing them to be successively and alternately held to successively act as stationary fulcra about which the bed swings, the corresponding pivots of the connections being coaxially disposed to cause both ends of the bed to successively swing about differently disposed stationary fulcra.

1,352,807. TIRE-CASING SPREADER. PAUL E. HAWKINSON, Minneapolis, Minn., assignor, by mesne assignments, to Kehawke Mfg. Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Oct. 29, 1919. Serial No. 334,274. 14 Claims. (Cl. 154—9.)



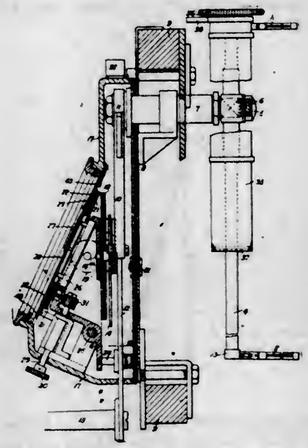
1. In a tire casing spreader, the combination with a plurality of pairs of members disposed in circular arrangement adapted to engage the edges of a tire casing, said members all mounted for movement around a horizontal axis, means arranged when operated to move all of said members in straight lines radial to the axis of their rotation, and means arranged when operated to move one of the engaging members of each pair in a straight line parallel to the said axis of rotation.

1,352,808. THERMO-VALVE. GEORGE D. HOFFMAN, Pasadena, Calif., assignor to Hoffman Specialty Company, Chicago, Ill., a Corporation of Illinois. Continuation of application filed June 28, 1915, Serial No. 36,859. This application filed Sept. 2, 1916. Serial No. 118,300. 15 Claims. (Cl. 236—58.)



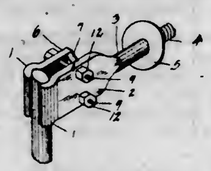
14. A thermostatic valve unit for steam traps comprising a holder having opposite end portions and longitudinal connecting side walls, one of the end portions having an opening, a valve extending through said opening and being movable endwise therein, and an expansible thermodynamic element contained in said holder and containing a fluid adapted to be expanded and contracted by rise and fall of temperature, respectively, said element being confined between the valve and the opposite end portion of the holder and coöperating with the valve.

1,352,809. MEANS FOR MEASURING THE VELOCITY OF A MOVING BODY. NATHANIEL HARVEY HUNT, London, England, assignor of one-half to Walter George Kent, London, England. Filed July 9, 1918. Serial No. 244,065. 14 Claims. (Cl. 33—46.)



1. In an instrument for measuring the velocity of a body having movement relative to the instrument, the combination of means forming a movable sight line adapted to be directed upon said body, a stop watch and means controlled by the movement of the first named means for starting and stopping the watch.

1,352,810. CLAMP. OTTO H. HUNT, Walla Walla, Wash. Filed Feb. 4, 1920. Serial No. 356,313. 2 Claims. (Cl. 24—135.)



2. In a clamp, a pair of jaw members, one of said jaw members having a rear portion and an extended portion forming a shank, and terminating in a threaded stem, the other of said jaw members having a rear portion and an inwardly extending projecting lug, said lug having a triangular form and positioned with the apex of the triangle in contact with the rear portion of the first mentioned jaw member, conical openings in the rear portion of both of said jaw members, and a clamping means positioned in said conical openings.

1,352,811. METAL SUPPORTING AND TRANSFERRING TABLE. PERCY E. HUNTER, Pittsburgh, Pa. Filed June 29, 1918. Serial No. 242,568. 6 Claims. (Cl. 193—55.)



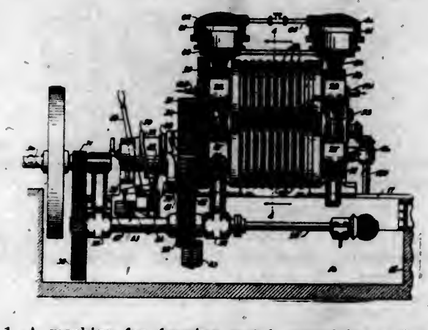
1. In combination with a supporting framework having an upper common plane of travel, a plurality of simultaneously adjustable supporting rollers and shafts having projecting terminals, vertically arranged guides therefor, and toggle joint mechanism for actuating all of said shafts and rollers simultaneously.

1,352,812. SHORTENING ATTACHMENT FOR REINS. EMIL F. JOHNSON, Lamberton, Minn. Filed Mar. 27, 1920. Serial No. 369,191. 1 Claim. (Cl. 54—74.)



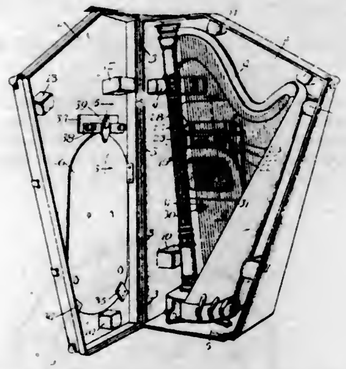
The combination with a driving rein having a longitudinal series of openings at the driving end and a series of openings intermediate its length, of a device for taking up the excess of length of the rein including a strap having a buckle on each end extending in opposite directions with respect to the strap, one buckle being arranged for adjustable engagement with the intermediate portion of the rein and the other buckle arranged for adjustable engagement with the driving end of the rein.

1,352,813. MACHINE FOR FORMING METAL. CASS L. KENNICOTT AND CHARLES P. KEMBLE, Chicago Heights, Ill.; said Kennicott assignor, by mesne assignments, of his entire right to Abner C. Harding, Chicago, Ill. Filed Aug. 13, 1918. Serial No. 249,641. 2 Claims. (Cl. 153—77.)



1. A machine for forming metal comprising a frame, a pair of geared roll-shafts mounted in the frame, a plurality of annular members sleeved upon the said roll-shafts and detachably secured thereto, certain of said annular members on one roll-shaft constituting male forming dies and the opposed annular members on the other roll-shaft constituting female forming dies removable elements inserted in the peripheral surfaces of said annuli and constituting portions of the forming surfaces thereof, and a stop on one of said rolls for positioning the metal to be formed.

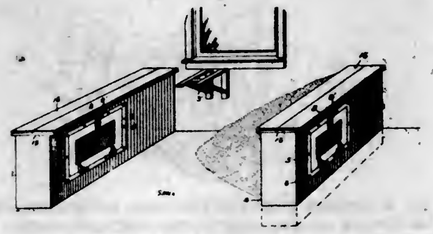
1,352,814. TRUNK FOR HARP OR LIKE INSTRUMENTS. WALTER I. KIRK, Chicago, Ill., assignor to Lyon & Healy, Chicago, Ill., a Corporation of Illinois. Filed Aug. 4, 1916. Serial No. 113,076. 2 Claims. (Cl. 206—13.)



1. A trunk comprising a casing of substantially harp shape having one of its side walls provided with strips and fastening devices and also sockets for engaging a cross member and the legs of a chair.

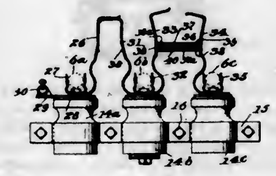
1,352,815. FITTINGS FOR MOLDING PLANTS. HUGH LESLIE KIRSH, Beaver Dam, Wis. Filed Jan. 12, 1920. Serial No. 350,899. 1 Claim. (Cl. 72—1.)

In a molding plant having side walls, the combination of individual work stalls associated therewith, comprising a pair of parallel fire proof hollow walls extending from the side wall, the hollow wall constituting a storage chamber, each of which is provided with an opening in one side for communication with a stall, a fire proof closure for the opening, the opposite face of said wall being uninterrupted to constitute a support for the hot sand to be banked thereagainst, and wooden panels detach-



ably secured to the upper surface of each wall to constitute a smooth surface molding table having a solid support thereunder.

1,352,816. REPEATING FUSE APPARATUS. LAURENCE M. KLAUBER, San Diego, Calif., assignor of one-half to San Diego Consolidated Gas & Electric Company, San Diego, Calif., a Corporation of California. Filed Dec. 6, 1918. Serial No. 265,536. 9 Claims.. (Cl 200—126.)



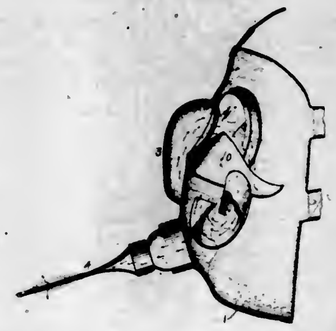
1. In a repeating fuse apparatus for high tension lines, the combination of a primary fuse and a secondary fuse each connected at one end in the circuit, the other ends of said fuses being insulated from each other, and a cut-out between the insulated ends of said fuses constructed to resist dielectrically the normal potential developed across it and between said insulated ends, and operating to rupture under the potential developed across it when said primary fuse burns out.

1,352,817. ATTACHMENT-PLUG. CHARLES J. KLEIN, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 4, 1917, Serial No. 159,602. Renewed Nov. 8, 1917. Serial No. 200,996. 6 Claims. (Cl. 173—343.)



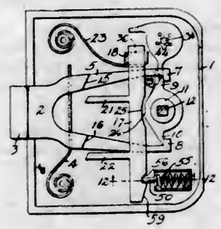
1. The combination with a molded insulating base and a contact to be secured thereto, of a metal insert molded in said base and having integral lugs projecting from said base and engaging with said contact at spaced points to definitely position the same, and one of said lugs being utilized to rivet said contact to said base.

1,352,818. RESPIRATOR. ARTHUR B. LAMB, Washington, D. C., ELTON W. MILLER, Akron, Ohio, and PAUL W. CARLETON, Penns Grove, N. J. Filed June 24, 1919. Serial No. 306,359. 4 Claims. (Cl. 128—141.)



1. In a respirator a diaphragm dividing the same into eye and mouth spaces and one or more tubes extending through the said diaphragm connecting the spaces so formed.

1,352,819. DOOR-LOCK. WELLINGTON LOUGHEED, Wyandotte, Mich., assignor of one-half to Jacob B. Sparks, Royal Oak, Mich. Filed Aug. 11, 1919. Serial No. 316,712. 5 Claims. (Cl. 70—29.)

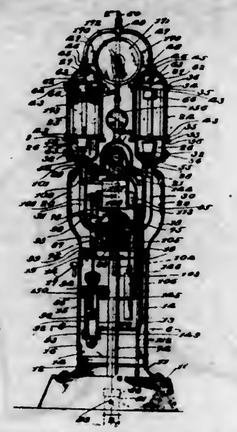


1. In a door lock, a member operable by an interior door knob, a member operable by an exterior door knob, a latch member actuated by the interior door knob, a locking bar holding the latch member from movement, means for disengaging the locking bar from the latch member by operation of the interior door knob, and means for holding the locking bar in disengaged position to allow operation of the lock by both door knobs.

1,352,820. GASOLENE-MEASURING DEVICE. JOHN C. MCKALLIP, Houston, Tex. Filed Apr. 16, 1918. Serial No. 228,889. 22 Claims. (Cl. 221—99.)

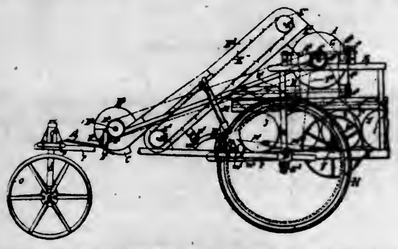
1. A device of the character described including a storage tank, a measuring vessel connected therewith, a discharge for the vessel, means for establishing communication between the vessel and the storage tank or between

the vessel and the discharge, and means communicating with the vessel for receiving and containing air dis-



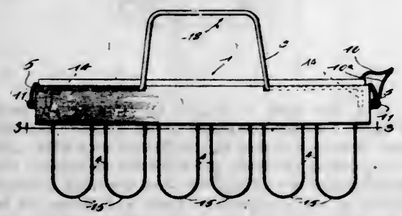
placed therefrom and movable to compensate for excess pressure in the vessel.

1,352,821. THRESHING-MACHINE. HUGH VICTOR MCKAY, Sunshine, Victoria, Australia. Filed Dec. 28, 1916. Serial No. 139,307. 7 Claims. (Cl. 130—27.)



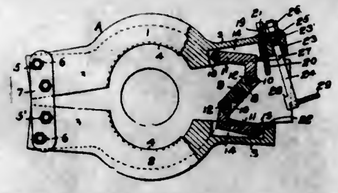
1. In a threshing machine, a spindle, a peg drum on the spindle, an intake fan at one end of the spindle, an exhaust fan at the other end of the spindle, and baffles below said spindle and coacting with said peg drum.

1,352,822. EGG-CANDLER. CHARLES T. MCLELLAN, Sioux City, Iowa. Filed Dec. 13, 1919. Serial No. 344,614. 7 Claims. (Cl. 99—6.)



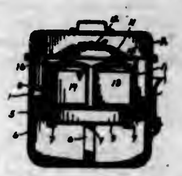
1. A candling device comprising an elongated casing to extend over a row of eggs provided with a plurality of openings in one side thereof, illuminating elements disposed in the casing opposite the openings, rocking members disposed on opposite sides of the casing and pivotally secured to the ends of the casing, handles carried by and extending from one edge of the rocking members, egg-gripping members carried by and extending from the opposite edge of the rocking members and disposed on opposite sides of the openings in the casing, and spring means for actuating the egg-gripping members toward each other.

1,352,823. DIE-HEAD. WILLARD C. MARKS, Etna, Pa., assignor to Spang, Chalfant & Co., Incorporated, a Corporation of Pennsylvania. Filed Oct. 1, 1919. Serial No. 327,753. 6 Claims. (Cl. 10—100.)



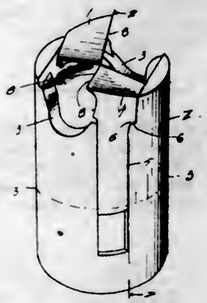
1. A die head formed of two yokes movably connected together at one end, lever means positioned entirely between the yokes at the opposite end of the same for opening and closing said yokes, said yokes being recessed for the reception of said lever means when in closed position, and operating means for the lever means at one side thereof.

1,352,824. COMBINATION-BOILER. ELIZABETH M. MARTIN, Sterling, Ill. Filed Apr. 18, 1917. Serial No. 162,824. 2 Claims. (Cl. 53—2.)



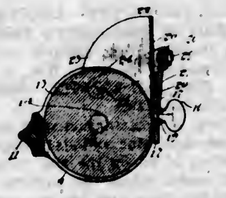
1. In a device of the class described, a boiler provided with a cover; an annular support provided with suitable legs, and formed of two parts adjustable with relation to each other; brackets attached to said support; and a vessel provided with a drop bottom adapted for support on said brackets, and spaced apart from said support.

1,352,825. BORING-TOOL. WILLIAM C. MEREDITH and WILLIAM C. WILLIS, Atlanta, Ga., assignors of one-third to R. H. White, Atlanta, Ga. Filed Dec. 19, 1916. Serial No. 137,798. 4 Claims. (Cl. 145—120.)



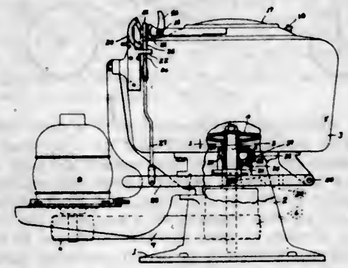
1. A boring tool comprising a cylindrical head having a bore, and a pair of bits removably secured to said head and disposed over one end of the bore and arranged in offset relation with respect to each other, said bits being inclined both to the transverse axis and longitudinal axis of said head and each having one longitudinal side thereof beveled to provide cutting edges so that the inner end of one cutting edge opposes the inner end of the other cutting edge and at obtuse angles to each other, said head having oppositely disposed cut-out portions and arranged adjacent the outer ends of the bits.

1,352,826. NOODLE-MACHINE. FRANK MICHALEK, Chicago, Ill. Filed June 26, 1914, Serial No. 847,389. Renewed Feb. 12, 1920. Serial No. 358,126. 13 Claims. (Cl. 107—14.)



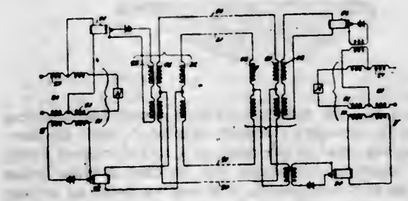
2. A noodle machine comprising in combination a hopper having a wall formed to present a perforated die for containing a mass of dough, a plain surfaced roll having an axis not higher than the perforations in said die, means for operating said roll to force the dough from the hopper through the die portion, a resilient reciprocating severing blade, a suitable support suspending said blade, and means whereby said blade is retracted from its cutting position including the flexing and releasing of said blade.

1,352,827. SAFETY DEVICE FOR EXTRACTORS. ERNEST W. MILLER, Norwood, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 23, 1916, Serial No. 133,041. Renewed Jan. 10, 1920. Serial No. 350,682. 6 Claims. (Cl. 74—46.)



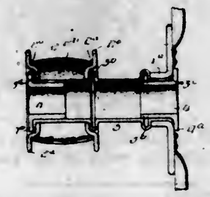
1. An extractor, comprising a rotating basket, an electric motor for driving the same, a motor circuit including a switch, a controlling circuit for actuating said switch and including a second switch, said controlling circuit when completed closing said motor switch, a brake for said basket, and a cover for closing the opening to said basket, said second switch being controlled by either said brake or cover.

1,352,828. FOUR-WIRE CIRCUIT. JOHN MILLS, Wyoming, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 7, 1918. Serial No. 238,713. 6 Claims. (Cl. 179—170.)



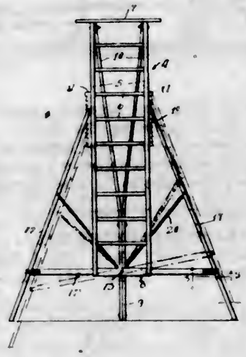
1. A transmission system comprising two pairs of conductors extending between stations a connection at one station delivering current substantially equally to said pairs in parallel, a connection at another station delivering current to two circuits in parallel each of which comprises one conductor of each of said pairs, means at each station for taking off current delivered by the other, and amplifiers for the currents traveling in either direction.

1,352,829. ROTARY FAN. ARVID NELSON, Chicago, Ill., assignor to Howe Lamp & Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1920. Serial No. 360,521. 5 Claims. (Cl. 64—17.)



1. A rotary fan comprising a tubular body member of thin metal having its cylindrical wall, at places intermediate of its length, displaced radially outward to provide a pair of integral abutting shoulders thereon, and face-disk and pulley members fitted to the respective ends of said body portion and in abutment against the shoulders thereof.

1,352,830. ADJUSTABLE LADDER. EDWARD C. OBERMEYER, Nessen City, Mich. Filed Oct. 4, 1919. Serial No. 328,479. 2 Claims. (Cl. 228—64.)

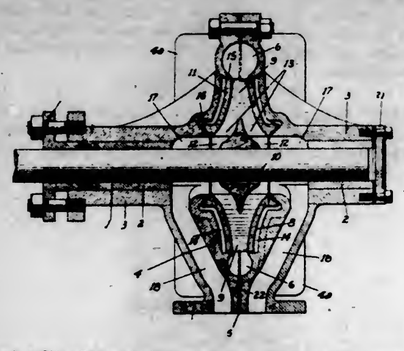


1. In a device of the character described, a ladder including side rails, said rails having a plurality of notches associated therewith, adjustable supplemental legs pivotally connected with the ladder, and springs for retaining one end of each leg in engagement with said notches.

1,352,831. DOUBLE-SUCTION CENTRIFUGAL PUMP. JAMES W. PINKERTON, Lodi, and ELMER TOMLINSON, Stockton, Calif., said Tomlinson assignor to said Pinkerton. Filed Oct. 21, 1919. Serial No. 332,346. 2 Claims. (Cl. 253—191.)

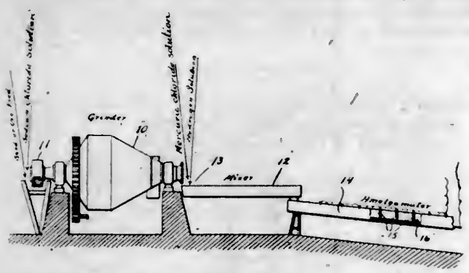
1. A centrifugal pump comprising a casing, a shaft turnable therein and having a hub thereon and a runner secured on the hub, the runner comprising vanes and having spaced webs connecting the side edges of the vanes and spaced from the walls of the casing, the casing

being split transversely of the shaft and centrally of the runner, whereby gaskets may be placed between the ad-



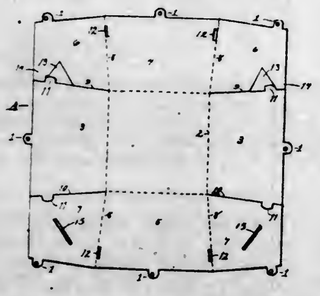
jacent split edges of the casing to alter the distance between the same and the walls of the runner.

1,352,832. PROCESS FOR EXTRACTING PRECIOUS METALS. CHARLES P. PRIEST, Philadelphia, Pa. Filed Aug. 21, 1919. Serial No. 318,947. 2 Claims. (Cl. 83—65.)



1. A process of extracting precious metals from ores or sands consisting in grinding the ores or sands in a solution of a sodium compound, then mixing with a hydrogen solution and a mercury compound solution, and then electrolyzing the slime whereby to effect amalgamation.

1,352,833. COLLAPSIBLE BERRY-BOX. CHARLES W. ROBINSON, Battle Creek, Mich. Filed Dec. 2, 1919. Serial No. 342,028. 4 Claims. (Cl. 229—35.)

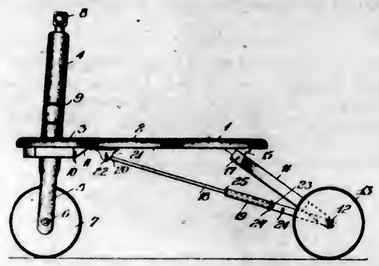


1. A box formed from a blank comprising a rectangular bottom portion having radiating extensions forming sides, means for interlocking said sides at their intersections, said sides having tongues extending from their edges and holes formed through said tongues, a cover having openings coincident with and adapted to receive the tongues of said cover and pins adapted to engage through said holes and retain said cover on said box.

1,352,834. OIL-PROTECTED ELECTRIC BATTERY AND METHOD OF PRODUCING THE SAME. OTTO E. RUHOFF, Madison, Wis., assignor to French Battery & Carbon Company, Madison, Wis., a Corporation of Wisconsin. Filed Apr. 28, 1919. Serial No. 293,049. 3 Claims. (Cl. 204—29.)

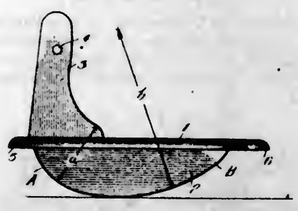
1. In a battery, in combination with the usual carbon, depolarizing materials, zinc and electrolyte, an attenuated protecting coating of oil on the zinc protecting the zinc from chemical action when the battery is at rest, but which does not interfere with efficient action of the battery when in use.

1,352,835. TOY VEHICLE. HENRY G. RUNNE, Rochester, N. Y., assignor, by mesne assignments, of one-half to Charles L. Townsend, Rochester, N. Y. Filed Jan. 24, 1919. Serial No. 272,956. 8 Claims. (Cl. 208—165.)



1. In a vehicle, the combination with a body and a swinging axle support hinged thereto, of a two-part adjustable radius rod connecting the support and body and embodying a latch member pivoted to one element and a socket member pivoted to the other, said members being loosely guided to slide longitudinally one upon the other and loosely pivoted to their carrying elements to have universal movement thereon to permit the latch member to be deflected laterally into and out of locking engagement with the socket member.

1,352,836. TOY. HENRY G. RUNNE, Rochester, N. Y., assignor of one-half to Charles L. Townsend, Rochester, N. Y. Filed Apr. 28, 1919. Serial No. 293,184. 4 Claims. (Cl. 46—22.)



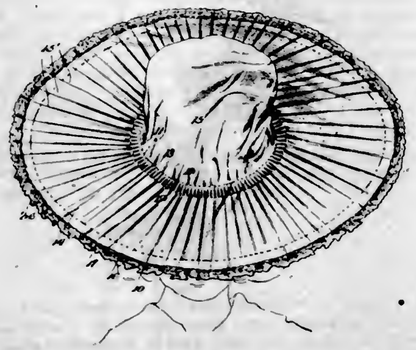
1. In a toy, the combination with a seat board having a forwardly arranged standard adapted to limit the forward seating point of the rider, of a rocker support therefor of eccentric curvature, the forward portion being struck on a radius having said seating point as an approximate center and the rear portion being struck on a longer radius having its center above the first mentioned center.

1,352,837. WRINGER-MOP. GEORGE A. SANGUINET, St. Louis, Mo. Filed Apr. 24, 1920. Serial No. 376,330. 4 Claims. (Cl. 15—43.)



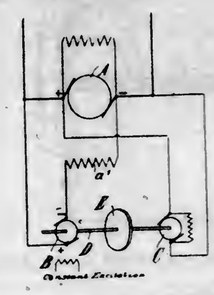
1. In combination with a tubular handle, a rod reciprocable in the bore of the handle, a mop secured to the rod below the handle, spring-controlled squeezing rolls leading from the handle and positioned to engage the mop from opposite sides with a movement of the rod and mop in a given direction, and means interposed between said rolls and the rod carrying the mop for drawing the mop and rod back to their original position.

1,352,838. SUN-HAT. ROSA P. SATTERFIELD, San Antonio, Tex. Filed Sept. 3, 1919. Serial No. 321,344. 1 Claim. (Cl. 2—108.)



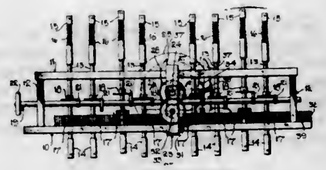
A hat including a single piece of cloth, a strip stitched in annular formation beneath said piece of cloth at a point spaced from its edge, an elastic band confined between said strip and said piece of cloth for dividing the piece of cloth into a crown and a brim and for yieldably contracting the crown to conform to the shape of the head, a second strip secured in annular formation to the edge portion of said brim, and a stiffening wire secured between said second named strip and the adjacent portion of said brim.

1,352,839. ARRANGEMENT FOR AUTOMATICALLY REGULATING THE VOLTAGE OF DYNAMOS. LUDWIG SCHÖN, Essen-on-the-Ruhr, Germany, assignor to Fried Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 23, 1913, Serial No. 808,470. Renewed Feb. 27, 1920. Serial No. 361,719. 4 Claims. (Cl. 171—225.)



1. Arrangement for automatically regulating the voltage of a dynamo comprising a shunt winding and an auxiliary exciting winding for said dynamo, which winding is normally inoperative and only rendered operative when the voltage of said dynamo varies; a generator constituting an auxiliary source of voltage practically independent of the load of said generator, the armature of said generator being connected in opposition to the armature of said dynamo through said exciting winding, and an electric motor for driving said generator, said electric motor being fed by said dynamo and means for constantly exciting said auxiliary generator.

1,352,840. VALVE-GRINDER. RALPH A. SHANTZ, Salem, Oreg., assignor of one-third to Oscar A. Steelhammer, Salem, Oreg., and one-third to John F. Steelhammer, Woodburn, Oreg. Filed Feb. 19, 1920. Serial No. 359,835. 11 Claims. (Cl. 51—29.)

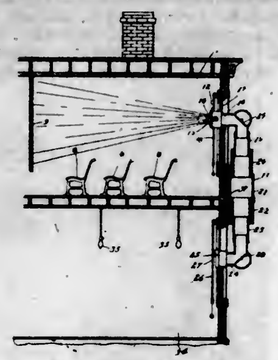


1. A valve grinding mechanism including a plurality of rotatable and vertically shiftable grinding shafts, means for continuously oscillating the said shafts in both their normal and vertically shifted positions, means for actuating said oscillating means, means for intermittently shifting each of the shafts, and means for varying the stroke of the oscillating means during oscillation and vertical shifting of the shafts as described.

1,352,841. AMUSEMENT DEVICE. HERBERT A. SILVER, Cincinnati, Ohio. Filed Dec. 22, 1919. Serial No. 346,497. 2 Claims. (Cl. 88—24.)

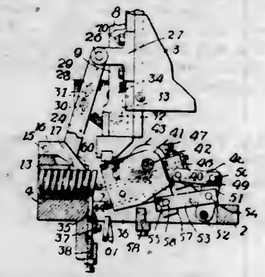
1. An amusement device consisting of the combination in an image projection device affording visible communication between adjacent rooms of a building containing the device, of a tube connecting the rooms, means adapted detachably to mount the tube in openings in walls of the rooms, a shade in one of the adjacent rooms, adapted to disguise the end of the tube in that room, and a lens at the end of the tube in the other of the adjacent rooms,

adapted to permit the projection of images from the first to the second mentioned rooms, and whereby the projec-



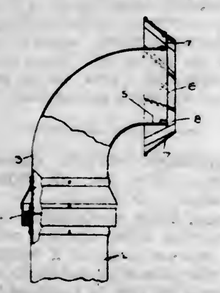
tion of images from the second to the first mentioned rooms is prevented.

1,352,842. COIL FEEDING AND CUTTING MECHANISM. FRANK H. SLEEPER and WILLIAM H. BLOUNT, Worcester, Mass., assignors to Sleeper & Hartley, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 10, 1917. Serial No. 153,901. 14 Claims. (Cl. 164—48.)



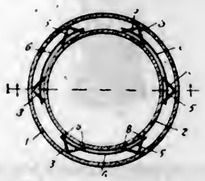
1. In a machine of the class described, a coil feeding mechanism comprising a stationary block, a bushing held in said block, said block and said bushing having longitudinal slots, reciprocating coil engaging devices projecting through said slots and adapted to move said coil, and means for applying frictional resistance to the movement of a coil held in said bushing.

1,352,843. VENTILATOR ATTACHMENT. FRANK C. SMITH, Minneapolis, Minn. Filed Jan. 25, 1917. Serial No. 144,335. 1 Claim. (Cl. 98—3.)



A ventilator comprising an elbow mounted for rotary movement on a vertical axis and having an exit opening, a ring in the form of a truncated cone encircling the outer end of said elbow and said exit opening, the tapered walls of said cone being obliquely arranged with respect to the end of said elbow and spaced therefrom, an unobstructed annular air passage being thereby formed between said cone and elbow, the walls of said cone directing such air currents inwardly to create a suction through the exit opening of said elbow, the opening in the discharge end of said cone being of greater diameter than the adjacent opening in said elbow to prevent choking of the air currents passing therethrough, and substantially straight blades mounted obliquely on the inner surface of said cone and extending substantially from end to end thereof and converging from their rear toward their forward ends to impart a rotary movement to the currents of air passing between said cone and elbow.

1,352,844. VACUUM-BOTTLE. HERBERT M. SMITH, Farmington, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed May 3, 1920. Serial No. 378,380. 6 Claims. (Cl. 215—118.)



2. In a separator for vacuum bottles, the combination of a non-metallic elastic strip of low heat conductivity having two projecting legs, means connecting said legs at points removed from their extremities and holding them in spaced relation, said strip being V-shaped.

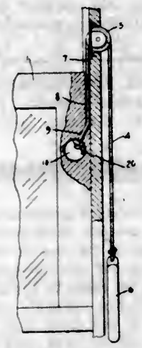
1,352,845. MANUFACTURE OF METAL FORMS. WALTER SNYDER, Philadelphia, Pa. Filed Sept. 12, 1916. Serial No. 119,608. 2 Claims. (Cl. 223—17.)



1. The method of constructing a drying form which consists in superposing metal plates having the general contour of the article to be dried, with an intervening spacing member remote from their edges; bending the plates about said member as fulcrum so as to bring their edges together; and integrally uniting said edges to form a relatively flat, hollow, unitary metallic envelop.

1,352,846. SASH-CORD DEVICE. MICHAEL SORG, Indianapolis, Ind. Filed Jan. 29, 1920. Serial No. 354,836. 2 Claims. (Cl. 16—16.)

1. A sash cord device comprising a window sash, a slot on the edge thereof, an angularly disposed passage leading from said slot into the body of said sash, an opening in said sash, said angularly disposed passage communicating therewith, a cylindrical lining member secured in said opening, an opening in the periphery of said member registering with said passage, means for securing said lining member on said sash, and means for covering the



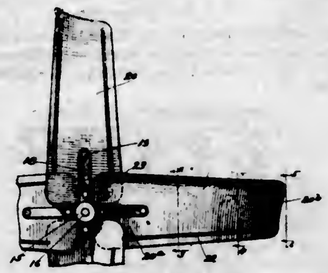
same, comprising a recess in said lining member, a cover plate fitting therein, spring members secured to said cover plate, said spring members being adapted to engage said lining member to hold the cover plate in position, and means thereon to facilitate removal.

1,352,847. LUBRICATING-CUP. ANTOINE SOUDY, Lyon, France. Filed Apr. 7, 1919. Serial No. 288,153. 2 Claims. (Cl. 184—91.)



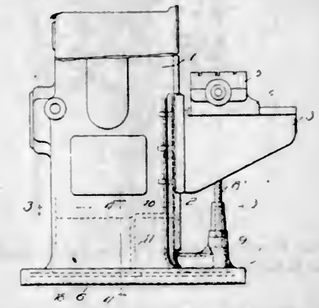
1. A cup comprising a body having a bore and a chamber having an internally spherical mouth in continuation of said bore, a hollow cap in the form of a portion of a sphere larger than a hemisphere fitting in said mouth and a lateral spring one end of which is axially fixed in said body and the other end axially fixed in said cap and allowing said cap to be tilted to allow oil to be introduced into said chamber, the said spring automatically retarding said cap when released to the closed position.

1,352,848. FAN-WHEEL. DESIDER STANTO, Milwaukee, Wis. Filed Oct. 30, 1917. Serial No. 199,249. 2 Claims. (Cl. 170—159.)



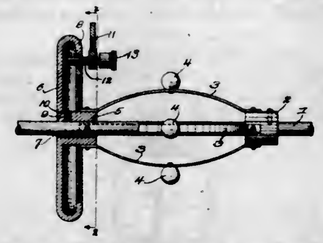
1. The combination with a hub of blades mounted thereon and radiating therefrom, the projection of each unit of length of each blade on a plane containing the axis of rotation of said hub and the center line of the blade being inversely proportional to the distance of said unit from said axis.

1,352,849. MILLING-MACHINE. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Rockford Milling Machine Company, Rockford Ill., a Corporation of Illinois. Filed Apr. 30, 1919. Serial No. 293,869. 11 Claims. (Cl. 90—58.)



1. A milling machine having, in combination, a hollow column having a front wall and two side walls, a base for the column, said base projecting forwardly of the column, a guide on the front wall of the column, a knee vertically slidable upon said guide, means for exerting force tending to separate the knee and said projecting portion of the base, a web extending rearwardly from the front wall of the column and from one side wall of the column to the other, and a vertical web extending across the angle between the front wall of the column and the other web substantially midway between the two side walls of the column, said vertical web extending into the forwardly projecting portion of the base.

1,352,850. SELF-OILING GOVERNOR. WILFRED VAN BUREN THOMAS, Catskill, N. Y. Filed Apr. 5, 1919. Serial No. 287,811. 3 Claims. (Cl. 184—7.)

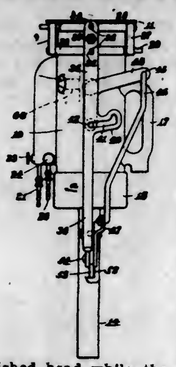


1. A self-oiling governor comprising a shaft, a disk slidably mounted thereon and constrained to rotate with the same, means adapted to be operated by centrifugal force for moving the disk, a brake means or friction speed control adapted to be lubricated and engaged by the disk, said disk being provided with means for preventing the lubricant from flying from the same by centrifugal force and means for supplying a lubricant to the disk and friction speed control.

1,352,851. RIVETING-MACHINE. HARLOWE EDSON TRUMBULL, Amesbury, Mass. Filed Dec. 13, 1918. Serial No. 267,552. 13 Claims. (Cl. 78—46.)

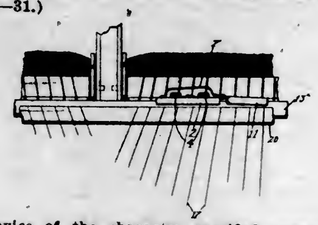
13. In a machine of the class described, the combination of a portable casing provided with a centrally disposed cylindrical heating chamber and alined inlet and outlet passages communicating with and in alinement with said chamber; means for feeding a partially headed blank through said inlet passage into said heating chamber and subjecting it to the heat therein; and means for giving a

final shape to said head when delivered from said heating chamber, said shaping means being adapted to provide a



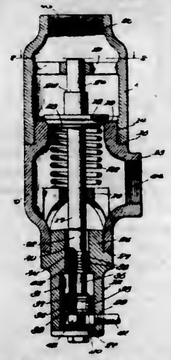
support for the finished head while the opposite end of said blank is being upset.

1,352,852. ROLLER-CLEANER. MATTHIAS E. VAN BROCKLEN AND RICHARD HAIDEN, Amsterdam, N. Y. Filed Jan. 3, 1920. Serial No. 349,316. 3 Claims. (Cl. 19—31.)



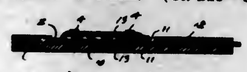
1. A device of the character specified, comprising a channel-shaped support having openings in the body thereof, and rollers journaled in the openings and having their axes inclined to the long axis of the support for the purpose specified, and a guide arm extending laterally from the support and adjustably connected therewith.

1,352,853. AUTOMATIC STARTING AND EQUALIZING PRESSURE-VALVE FOR COMPOUND ENGINES. JAMES B. VERNON, Princeton, W. Va. Filed Aug. 21, 1917. Serial No. 187,459. 3 Claims. (Cl. 121—105.)



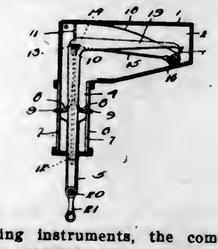
1. An automatic starting and regulating valve for compound steam engines comprising a casing having means whereby the same may be connected to the live steam duct of a compound steam engine and provided intermediate its ends with a valve-seat and a valve thereby forming a live steam chamber between said valve and said connecting means, said casing being provided with means whereby the same may be connected to the passage between the high and low pressure cylinders of a compound steam engine, and spring means assisted by the steam pressure in the passage between the high and low pressure cylinders for opening the valve against the pressure of the live steam in said chamber when the pressure of the live steam in said chamber drops below the combined pressure of said spring means and the steam within said passage.

1,352,854. HEATER FOR CARBURETERS. CLARENCE E. WARWICK, Whitetail, Mont. Filed June 24, 1919. Serial No. 306,313. 1 Claim. (Cl. 219—38.)



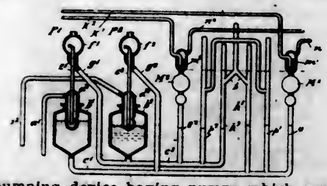
A heater for carbureters comprising a stem having an elongated cut out portion intermediate its ends and a passage through one of its end portions, circular plates positioned in the cut out portion and one of said plates being concaved with its edges in abutting engagement with the other plate, fastening elements extending through the plates and secured to the stem, mica disks engaging the inner faces of the plates, said disks and plates having alining grooves in one of their edges, and an electrical heating medium arranged between the disks and extending through the grooves and the passage of said stem.

1,352,855. MECHANICAL INDICATOR. CLARENCE JOHN WAY and WILBUR ALBERTON WAY, Cleveland, Ohio. Filed Nov. 17, 1919. Serial No. 338,717. 2 Claims. (Cl. 33—172.)



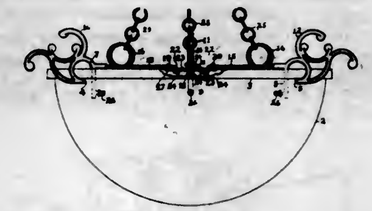
1. In measuring instruments, the combination of a cylinder bearing measurement markings, said cylinder having longitudinal slots, an indicating ring slidable longitudinally over said cylinder, arms on which the ring is mounted, said arms extending through the slots, a movable sleeve on which the arms are mounted, a bell crank lever operatively connected at one end with the aforesaid sleeve, an actuating arm, an L-shaped lever having one end in contact with the other arm of the aforesaid bell crank lever, and having its other end operatively connected with said actuating arm, resilient means normally holding said bell crank lever in contact with the end of the L-shaped lever, and a casing for the levers and resilient means.

1,352,856. PUMPING DEVICE. NILS WENER, Stockholm, Sweden, assignor to Svenska Aktiebolaget Mono. Filed June 17, 1918. Serial No. 240,541. 5 Claims. (Cl. 230—16.)



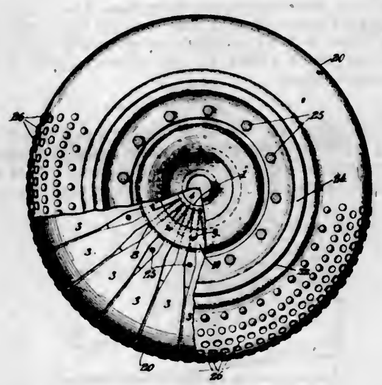
1. A pumping device having pumps which work alternately and are provided with oscillating liquid-pistons and two receptacles connected with each other, having each connected to deliver at each stroke a small quantity of the pump liquid to the other pump.

1,352,857. LIGHTING-FIXTURE. ARTHUR EDWARD WIEDENHOEFT, Chicago, Ill. Filed June 30, 1919. Serial No. 307,700. 4 Claims. (Cl. 240—115.)



1. The combination with a central apertured plate, of radial rods adjustable into either one of several positions on said plate, a shade-engaging hook mounted upon each rod, and a coiled spring loop formed in each rod with which the means for supporting said rods in suspension are engaged.

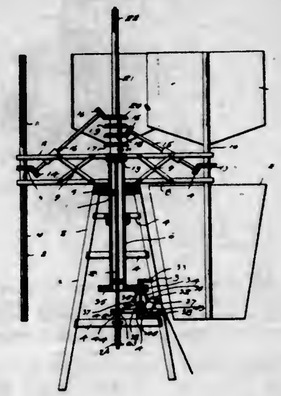
1,352,858. RESILIENT WHEEL FOR VEHICLES. RALPH LINDEKVIST WILSON, Bergen, Norway. Filed Nov. 24, 1916. Serial No. 133,232. 13 Claims. (Cl. 152—29.)



1. A resilient wheel comprising a hub having U-shape springs, the ends of which are fastened to said hub, and means for adjusting said springs radially outward, said means comprising a ring having a beveled shoulder co-acting with beveled shoulders on said springs.

1,352,859. WINDMILL. WALTER A. WILSON, Elkhart, Kans. Filed Apr. 15, 1919. Serial No. 290,221. 4 Claims. (Cl. 170—25.)

4. In a wind mill construction, a hollow shaft, a plurality of outwardly extending arms carried by the hollow shaft, a vertical shaft carried by each one of the arms, vanes carried by the last mentioned shaft, an inner shaft rotatably and slidably mounted in the hollow shaft, a plurality of gears carried by the inner shaft, means operatively connecting the gears with the shaft carried by the arms, means for raising and lowering the inner shaft, means for operatively connecting the inner shaft with the gears for causing a certain limited rotation upon movement of the shaft, and a governor connected to the inner sliding shaft to cause the same to raise and



lower according to the velocity of the wind, as and for the purpose specified.

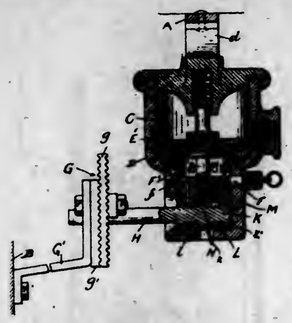
1,352,860. INCANDESCENT ELECTRIC LAMP. NATHAN WISE, Brooklyn, N. Y. Filed Aug. 21, 1916. Serial No. 116,136. 15 Claims. (Cl. 176—16.)

14. In an incandescent lamp, a bulb having a pocket in its wall, the interior of said pocket communicating with the interior of the bulb, a stem within the bulb, and lead in wires and filament supports mounted in said stem, the portions of the stem having said lead in wires and filament supports being located within the pocket.

1,352,861. SAFETY RAILWAY-BRAKE. JOHN B. WRIGHT and FRANS O. LAWSON, Greensboro, N. C., assignors to Wright Safety Air-brake Company, Greensboro, N. C., a Corporation of North Carolina. Filed Dec. 19, 1919. Serial No. 345,979. 7 Claims. (Cl. 246—170.)

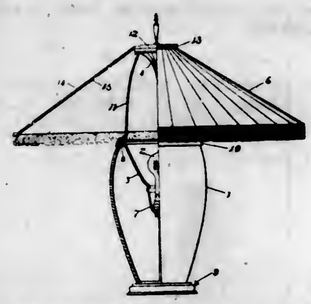
1. In a derailment control mechanism for railway brakes, the combination of the valve carried on the car body, an actuating member therefor movable laterally and vertically in any direction by relative abnormal movements of the car body and truck to unseat said valve, a bearing member for said actuating member, coöperating cam surfaces on the actuating and bearing members adapted to move the actuating member away from the bearing member in a direction at substantially right an-

gles to the face of the bearing member to unseat the valve upon relative abnormal movements of the truck and



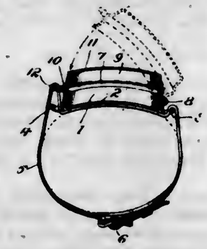
car body, and a second operating member carried by the truck adapted to operate said actuating member.

1,352,862. PORTABLE LAMP. LORIN W. YOUNG, New York, N. Y. Filed May 3, 1918. Serial No. 232,195. 3 Claims. (Cl. 240—81.)



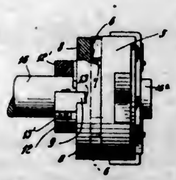
1. In a portable lamp, in combination, a standard, an illuminant supported thereby, an opaque cupped reflector about said illuminant arranged to intercept the direct rays below the upper horizontal plane of said illuminant and to direct such rays upwardly, an opaque diffusing reflector above and in alinement with said illuminant to direct laterally the rays impinging thereon, a translucent silk shade laterally concealing said diffusing reflector, said shade having a mat inner lining adapted to direct downwardly a major portion of the rays impinging thereon, and a bracket supported by said standard and supporting said diffusing reflector and said shade.

1,352,863. JEWEL WRIST-SAFE. MARY S. ZEITLER and WINFIELD S. LLOYD, Washington, D. C. Filed June 23, 1920. Serial No. 391,043. 4 Claims. (Cl. 224—26.)



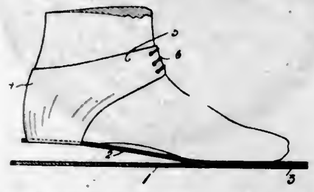
2. A water proof container comprising an elongated receptacle adapted to be attached to the wrist of a user and having a closed bottom bowed to conform to the contour of the wrist, walls integral with said bottom, the top of said receptacle being open, a bead formed in said walls parallel with the bottom, a cover hinged to one end of the receptacle below said bead and having a groove formed therein to be sprung over said bead in water tight relation, and means to attach said receptacle to the wrist of a user, said means serving to retain the cover in closed position.

1,352,864. COUPLING FOR IMPULSE-STARTERS. FREDERICK W. ANDREW, Brooklyn, N. Y., assignor to Eisemann Magneto Corporation, Brooklyn, N. Y., a Corporation of New York. Filed July 15, 1919. Serial No. 311,029. 7 Claims. (Cl. 64—91.)



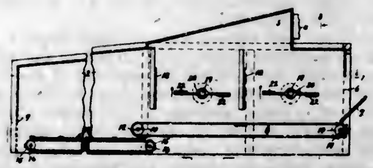
1. In a coupling, a rotatable driving member and a rotatable driven member arranged substantially in axial alinement, metallic lugs projecting axially from the adjacent ends of said members, and a coupling disk arranged between the adjacent ends of said members for operatively connecting them, said disk being composed of textile material impregnated with and held together by a hardened waterproof cement, said disk being substantially inert under the action of temperature and moisture and being capable of withstanding the requisite torsional strain of operation without requiring the use of metallic reinforcements, the opposite faces of said disk having grooves or recesses for receiving the metallic lugs of said members and thereby coupling said members together, said lugs and grooves forming a silent automatically adjustable connection which allows for the eccentric play of the rotatable members.

1,352,865. INLAY-SOLE FOR THE PREVENTION OF THE DEVELOPMENT OF GALLS. ARENT AUGESTAD, Marka Brandbu Station, Hadeland, Norway. Filed July 8, 1919. Serial No. 309,368. 7 Claims. (Cl. 36—71.)



1. An inlay device for shoes, comprising a flexible sole, a comparatively rigid sole connected to said flexible sole at the toe tip of the latter, and means for fastening said flexible sole to the foot of the wearer.

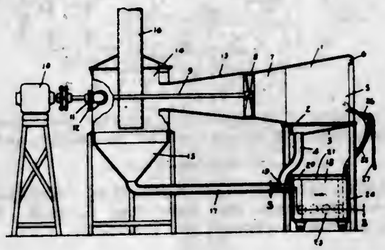
1,352,866. HARD-STOCK WHIPPER. GEORGE L. BIDWELL, Riegelsville, Pa. Filed Mar. 1, 1920. Serial No. 362,326. 4 Claims. (Cl. 19—9.)



3. The combination, in a hard-stock whipper, with a whipper-house, an apron in said house, means to drive

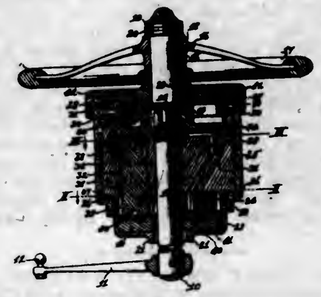
said apron, a perforated apron mounted to travel in said house, and a slotted drawboard receivable on said last-mentioned apron, the arrangement being such that said drawboard can be pushed forward beneath said first-named apron at the rear end of the latter, of a rotary paddle in said house above said first-named apron, and a baffle in said house behind said paddle.

1,352,867. WASHING SYSTEM. SHIRAS A. BLAIR, Indianapolis, Ind. Filed Jan. 20, 1920. Serial No. 353,148. 4 Claims. (Cl. 141—1.)



2. A washing system compriaing a chamber, means for spraying cleansing liquid therein, means for removing said liquid therefrom comprising a pipe in the bottom of said chamber and an exhaust fan connected to said chamber, a separating chamber connected to said first chamber, means for removing the liquid from said separating chamber, and means for cleansing said liquid.

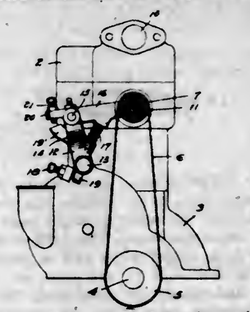
1,352,868. STEERING MECHANISM. CARL H. BLOMSTROM, Detroit, Mich. Filed Aug. 19, 1919. Serial No. 318,480. 7 Claims. (Cl. 74—79.)



1. An irreversible steering gear mechanism comprising a stationary member, a stationary internal gear carried by said member, a rotatable shaft supported by and extending through said stationary member and adapted to be attached to a steering gear, a rotatable internal gear attached to said rotatable shaft, a rotary wheel on said stationary member, a rotatable driving flange connected to said rotary wheel, two integrally connected planetary pinions rotatably supported on said driving flange and revolving around said rotatable shaft, one of which pinions is in mesh with the stationary internal gear and the other in mesh with the rotatable internal gear, whereby said rotatable shaft is capable of rotation within said driving flange by means of said wheel.

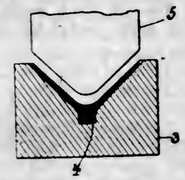
1,352,869. RADIATOR-FAN-SUPPORTING MEANS. VITUS A. BOKER, Minneapolis, Minn., assignor to The E. G. Staude Manufacturing Co., St. Paul, Minn., a Corporation. Filed Mar. 20, 1918. Serial No. 223,533. 8 Claims. (Cl. 64—52.)

1. The combination, with a gas engine frame, of an arm pivotally supported thereon, a fan shaft having a bearing in its arm, a driving belt for said fan shaft, and a spring mounted on one side of the pivot of said arm to



yieldingly support said arm and tension said belt and a stop device for said arm mounted on the other side of its pivot.

1,352,870. METHOD OF MAKING RING-MOUNTINGS. WALTER C. BOWERS, Dayton, Ohio. Filed Oct. 17, 1917. Serial No. 197,096. 4 Claims. (Cl. 29—10.)



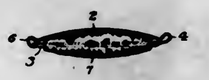
1. The method of making a finger ring which consists in first forming a blank having a rectilinear shank and a solid central head integrally joined therewith without the intervention of a metal of low melting point, bending said blank so as to form two shanks extending substantially at right angles to each other from said head, flashing said head so as to form a cup-shaped member having superficial ribs on its upper surface, each rib projecting in such direction that it would, if extended, intersect the extension of a portion of the cup diametrically opposite thereto at an angle greater than a right angle, then rigidly supporting said blank and removing the intermediate metal webs between the aforesaid ribs.

2. The method of making a ring which consists in first forming a blank having a rectilinear shank and a solid central head integrally joined therewith without the intervention of a metal of low melting point, bending said blank so as to form two shanks extending substantially at right angles to each other from said head, flashing said head so as to form a cup-shaped member having superficial ribs on its upper surface, each rib projecting in such direction that it would, if extended, intersect the extension of a portion of the cup diametrically opposite thereto at an angle greater than a right angle, then rigidly supporting said blank and causing a reciprocating metal cutter to successively contact with the metal in close proximity to two adjacent ribs without contacting with a diametrically opposite metal portion of the cup so as to cut away the metal webs between the ribs.

3. The method of making a blank for a finger ring consisting in first forming a blank having a rectilinear shank and a central head joined together, bending said shank to form two shanks extending at an angle to each other from the head, flashing said head to form a cup-shaped member, then rigidly supporting said blank and removing portions thereof in spaced relation providing intermediate fingers.

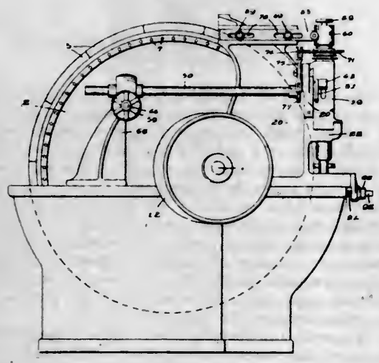
4. The method of making a blank for a finger ring consisting in first forming a blank having a head having two shanks extending at an angle to each other from the head, flashing said head to form a cup-shaped member, then removing portions of said head in spaced relation providing intermediate fingers.

1,352,871. HAIR-CURLER. ORSON W. BRENIZER, Philadelphia, Pa. Filed Aug. 30, 1919. Serial No. 320,780. 2 Claims. (Cl. 132—19.)



1. A hair curler formed of a single piece of spring metal and comprising a flat flexible arm and a stiff arm, said arms having connected adjacent ends and diverging from their connected ends, the stiff arm causing the flexible arm to be bowed when hair is placed between the arms and the free ends of the arms are forced toward each other, and means for connecting the free ends of said arms together when they are sprung toward each other.

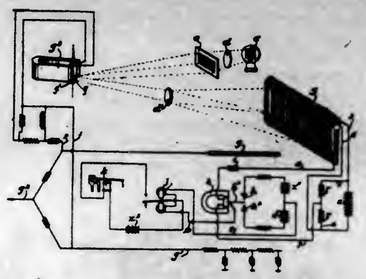
1,352,872. GEAR-GRINDING MACHINE. ALEXANDER T. BROWN, Syracuse, N. Y., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed Feb. 13, 1914, Serial No. 818,473. Renewed July 15, 1920. Serial No. 396,613. 27 Claims. (Cl. 51—52.)



1. A gear grinding machine comprising a pair of grinding wheels opposed to each other and arranged with their axes inclined with respect to each other so that their working faces are in the planes of the pressure angles of the teeth of the gear to be ground and at right angles to the axes of the grinding wheels, and a gear carriage arranged to support the gear with its axis standing at an angle to the plane containing the axes of the grinder so that the teeth thereof are engaged with the grinders and the grinders extend between teeth of the gear and the working faces thereof are engaged with dissimilar faces of alternate teeth of the gear, substantially as and for the purpose set forth.

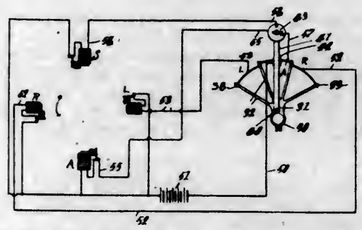
1,352,873. TELEGRAPHY. WILLIAM M. BRUCE, Jr., Springfield, Ohio. Filed May 15, 1916. Serial No. 97,648. 6 Claims. (Cl. 178—63.)

5. In a telegraphic system employing impulses of opposite polarity, a selenium organism comprising separate units or cells arranged in groups with the cells of each group connected in multiple one of the other, a light projecting device for deflecting alternate bars of light and shadow on said cells, and means for deflecting the same to cause the light or shade to cover said units, a connection from said multiple sets of units to a polarized relay,



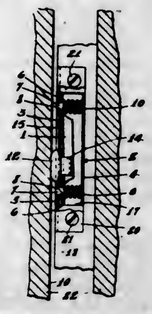
and a source of current supply therefor, and condenser in series with said relay as and for the purpose specified.

1,352,874. AUTOMOBILE-INDICATOR. WILLIAM H. BUSCH, St. Louis, Mo. Filed June 13, 1918. Serial No. 239,798. 6 Claims. (Cl. 177—337.)



1. In an automobile indicator, the combination with the signal mechanism including the words "Left" "Right" and "Ahead," a grid carried rigidly by the steering pillar, and two spaced track sectors and an interposed sector carried by and insulated from the arms of the grid; of a switch arm pivoted on the grid and having a contact riding on said sectors as the arm is moved, signal operating mechanism actuated by circuits closed through the respective sectors and the switch arm in its several positions, and means for automatically restoring the arm to the intermediate sector and the signal to "Ahead" when the steering wheel is restored to its neutral or normal position after having been turned aside.

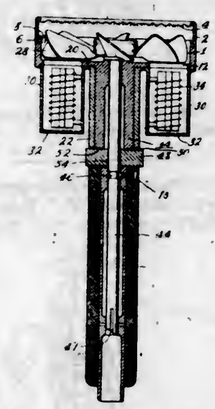
1,352,875. BRAKE FOR WINDOW-SASHES. EDWARD F. CHAFFEE, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 15, 1918. Serial No. 228,577. 7 Claims. (Cl. 16—77.)



1. A brake for window sashes comprising a compression member, springs acting on said member at points spaced apart, and a braking element movable rectilinearly

along said compression member between the points where the forces of the springs are applied to said member and arranged to be actuated by a sudden movement of the sash to carry the said member from the influence of one spring to that of another, substantially as and for the purpose described.

1,352,876. ELECTRIC HAIR-DRYING DEVICE. SAMUEL M. COFFMAN, Kansas City, Mo., assignor to The Barbers Electric Specialty Company, a Corporation of Kansas. Filed Apr. 1, 1919. Serial No. 286,643. 10 Claims. (Cl. 34—26.)



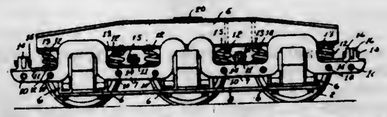
10. In a device of the character described, a chamber having a perforated front wall and equally-spaced openings in its rear wall for the passage of air therethrough, a plate rockably mounted at the rear of said chamber and having openings which register with the first-mentioned openings when said plate is rocked to one position, ducts fixed to said plate and arranged to communicate with the first-mentioned openings when the plate is rocked to another position, means for heating the air in said ducts, a handle to said device, and a fan for creating a current of air through the ducts and the chamber.

1,352,877. MARINE PROPELLER. TOMASO SALVATORE COGLIOLO, Genoa, Italy, assignor to Società Esercizio Bacini, Industrials, Genoa, Italy. Filed Feb. 13, 1917. Serial No. 148,467. 3 Claims. (Cl. 170—159.)



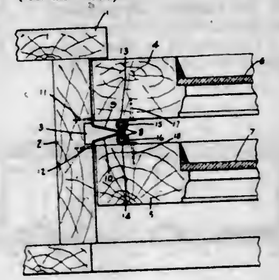
1. A propeller, having a blade the surface of which has a parabolic generatrix, but wherein the several points of the blade surface are transposed parallel to the axis of the propeller distances equal to the distances of corresponding points of projection from a straight generatrix to said parabolic generatrix.

1,352,878. SIX-WHEEL PIVOTAL BOGIE-TRUCK. ELMER E. COOK, Sharon Hill, Pa., assignor of one-half to Douglas Thorton, Philadelphia, Pa. Filed Mar. 31, 1920. Serial No. 370,147. 4 Claims. (Cl. 105—195.)



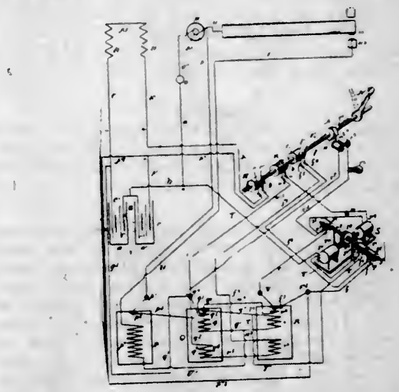
1. The combination in a six wheel car-truck and its running-gear of the main truck springs supported outside of the wheel-gage on an equalizing frame, resting directly on the journal boxes of the truck, substantially, as described.

1,352,879. WEATHER-STRIP. HARRY S. DAVIS, Indianapolis, Ind. Filed Mar. 1, 1920. Serial No. 362,322. 2 Claims. (Cl. 20—69.)



1. A weather strip for windows comprising longitudinally placed members extending transversely between the movable parts of the window structure, the longitudinal edges of said members being formed into beads, legs integral with said beads and having their inner ends in juxtaposition to each other and their outer ends spread apart, means for securing the outer ends of said legs to the frame portion of the window structure, and coöperating members attached to the faces of the movable members of the window structure, said coöperating members having stockets thereon adapted to closely envelop the beads of said transversely extending members.

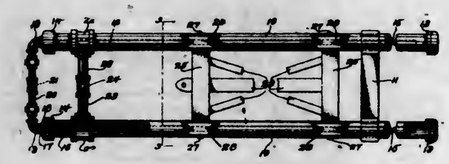
1,352,880. AUTOMATIC WEIGHING AND RECORDING SCALE. JOHN V. DAVIS, Kelseyville, Calif., assignor, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass., a Corporation of Massachusetts. Filed July 14, 1909. Serial No. 507,638. 57 Claims. (Cl. 265—7.)



1. A reverse armature circuit consisting of two sources of electricity, a connection between the inside positive pole of one and the inside negative pole of the other, a wire leading from this connection to the armature, a wire connecting this armature with one end of a scale beam, a scale beam, a wire leading from a contact adjacent to the other end of the scale beam, in combination with three relay cups, the wire leading from the other end of the scale beam having a solenoid in one relay cup, a wire leading therefrom having a solenoid in another relay cup, a wire leading from the solenoid to a spring contact in the third relay cup, the spring contact, a wire leading from this spring contact to a spring contact in the

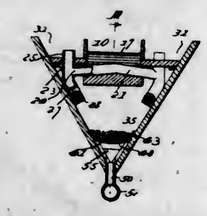
second relay cup, this spring contact, and a wire leading from this spring contact to the outside positive pole of the source of electricity, from the negative pole of which the wire runs to the armature.

1,352,881. WINDOW-GLASS-FLATTENING OVEN. HARRY E. DE VAUGHN, Morgantown, W. Va., assignor to United States Window Glass Company, Morgantown, W. Va., a Corporation of West Virginia. Filed June 2, 1916. Serial No. 101,399. 3 Claims. (Cl. 49—44.)



1. An improvement in glass flattening ovens comprising a shove pan track formed of tubular rails closed at their ends, water-distributing tubes extended longitudinally into said rails through one closed end thereof, each water tube having a discharge end located contiguous to the other closed end of its rail, a transversely disposed rigid fluid supply pipe connecting the supply ends of said tubes, and a transversely disposed rigid discharge pipe lying contiguous to the supply pipe and connecting said rails, said supply and discharge pipes coöperating to brace said rails.

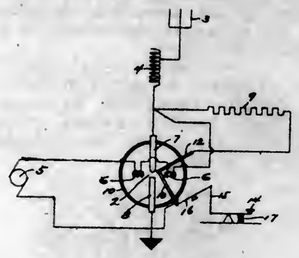
1,352,882. ORE-CONCENTRATOR. DAVID H. DONEGAN, Saw Pit, Colo. Filed Apr. 14, 1920. Serial No. 373,851. 7 Claims. (Cl. 83—82.)



1. A concentrator for metal bearing ores or earths, comprising a sluice and a series of riffles in said sluice, said riffles being in the form of pockets below the bottom of said sluice, and an outlet from said pockets for carrying off the concentrates settling in said pockets during the running of the sluice, and means for effecting a further separation of the gangue in said concentrates from the metal therein, said means comprising an upwardly directed spout connected with said outlet through which the liquid carrying the lighter portions of the concentrates may flow, and a second spout through which the liquid carrying the highly concentrated metal may flow, and a screen into which said second named spout discharges.

1,352,883. RADIOTELEGRAPHY. HAROLD F. ELLIOTT, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed Mar. 23, 1920. Serial No. 368,193. 4 Claims. (Cl. 250—19.)

1. In a radio generator, an anode and a cathode between which an arc is formed, a stationary electrode arranged adjacent the anode and connected thereto, a resistor in the circuit between the stationary electrode and the anode, a movable electrode arranged adjacent the stationary electrode and connected to the cathode and



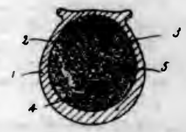
means for moving the moving electrode to make and break contact between the electrodes.

1,352,884. ADJUSTABLE LIFTING MECHANISM. ELMER E. EMORY, Canonsburg, Pa. Filed Sept. 27, 1919. Serial No. 326,912. 4 Claims. (Cl. 254—143.)



1. Lifting mechanism of the class described consisting of a pair of outer parallel standards spaced apart and having at top and bottom cross connecting guiding braces, an intervening relatively movable standard having a sheave wheel at its lower portion, a sheave wheel having a supporting clevis secured to the upper cross brace, a winding shaft mounted in bearings on the outer standards, a cable wound thereon, passing around the lower and upper sheave wheels and secured to the clevis with a depending loop, and a lifting sheave having a hook mounted in said loop.

1,352,885. ELASTIC TIRE. KINSUKE FUKUDA, Tokyo, Japan. Filed Dec. 18, 1919. Serial No. 345,830. 3 Claims. (Cl. 152—5.)



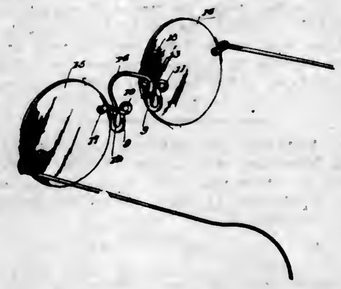
1. A core for tires, comprising a strip of spongy rubber having a plurality of ridges adapted to be rolled in contact with each other, and an inner core of rubber containing no sulfur constituent, the inner core being inserted between the contacting surfaces of the ridges when they are rolled.

1,352,886. RADIOTELEGRAPHY. LEONARD F. FULLER, San Francisco, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Sept. 19, 1917. Serial No. 192,209. 7 Claims. (Cl. 250—19.)



1. A radio telegraphy transmission system including an antenna circuit, an inductance coil in said circuit, a plurality of sector circuits inductively connected to said inductance coil, and means for opening and closing the sector circuits.

1,352,887. SPECTACLE NOSE-BRIDGE. JOSEPH S. GALESKI, Richmond, Va. Filed Jan. 29, 1920. Serial No. 354,800. 3 Claims. (Cl. 88—43.)



1. A nose piece for spectacles comprising a bridge member having lens clamps at each end thereof, the intermediate portion of said bridge member being brought rearwardly of the lens clamps at right angles to the plane of the lens and looped upwardly, thence downwardly and again upwardly to form nose pads with a connecting bridge.

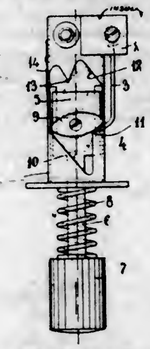
1,352,888. KNIFE-SHARPENER. STEPHEN H. GALLAGHER, Syracuse, N. Y. Filed Sept. 16, 1919. Serial No. 324,062. 4 Claims. (Cl. 76—84.)



4. A knife sharpener, comprising a tapering metal blade having a plurality of elongated surface grooves, and an abrasive material disposed in and filling said grooves, the said material at its exposed urfaces being substantially flush with the metal at all of its margins, whereby the cutting edge of a knife is first roughly abraded by contact with said material, and finally rendered smooth and keen by its subsequent contact with the metal of the blade adjacent said margins.

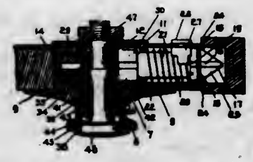
1,352,889. SWITCH. GALILEO GALLO and FELICE VILLARBOITO, Vercelli, Italy. Filed Apr. 6, 1920. Serial No. 371,624. 3 Claims. (Cl. 200—160.)

1. An electric switch operated by pressing in or pulling out, comprising a stationary frame, a stationary contact piece, a member mounted to move endwise in said frame, means for operating said member, a contact piece carried by said moving member and adapted to contact with the stationary contact piece at one end of the stroke of said moving member, said stationary frame providing projections and recesses at its two ends, a lenticular member pivoted on said moving member and coöperating with said projections and recesses of the stationary frame to be tilted at each end of its stroke so as to be stopped



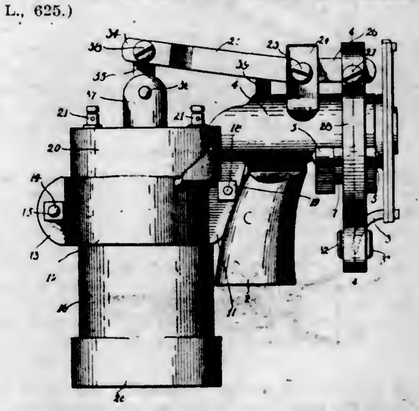
alternately after a full stroke and before its contact piece meets the stationary contact piece and means for holding said lenticular member in its proper positions.

1,352,890. LOCK. WILLIAM H. GANSS, Toledo, Ohio. Filed Aug. 11, 1917. Serial No. 185,653. 7 Claims. (Cl. 70—53.)



1. A permutation lock comprising a tumbler having a recess, a housing having an outer sleeve surrounding the tumbler and an inner sleeve concentric with the outer sleeve providing a bearing on which the recessed tumbler is mounted, a spindle extending through the inner sleeve, said outer sleeve having an opening, a bolt movable into the opening and tumbler recess, and means mounted on the spindle for bringing the tumbler recess into registry with the outer sleeve opening to permit bolt movement thereinto.

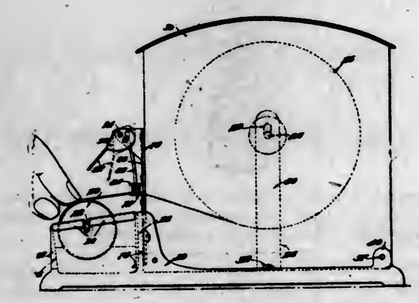
1,352,891. ELECTRICALLY-CONTROLLED MECHANISM FOR FIREARMS. SAMUEL G. GREEN, U. S. Army. Filed July 2, 1919. Serial No. 308,300. 3 Claims. (Cl. 89—28.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. The combination with a firearm, of a saddle adapted to be secured thereto, an electro-magnet supported by said

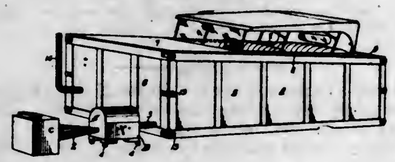
saddle and having an armature, a trigger-engaging member, a lever for moving said trigger-engaging member and actuated by the armature of said magnet, and an electric circuit including said magnet.

1,352,892. TAPE-MOISTENING MACHINE. HARVEY LESLIE GREGWARE, Beverly, Mass., assignor to Fred M. Page, Lynnfield, Mass. Filed Mar. 24, 1920. Serial No. 368,228. 8 Claims. (Cl. 91—14.5.)



1. A tape moistening machine having, in combination, a base, a roll support mounted thereon, a moistener mounted on the base, means for severing the tape between the moistener and roll support, and a clamping device through which the tape passes adapted upon the initiation of the severing operation to depress the tape into a tortuous position and to clamp it in such position during the severing operation.

1,352,893. PORTABLE VARNISH-DRYING OVEN. WILLIAM O. GUICE, Seattle, Wash. Filed Oct. 29, 1919. Serial No. 334,314 6 Claims. (Cl. 34—19.)



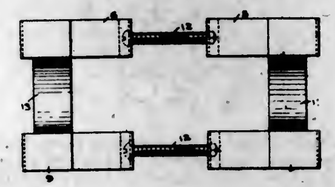
5. In combination, a box having a motor therein, a fan on said motor, a vehicle carrying an electric heater, a collapsible varnish drying oven, said oven adaptable to receive an automobile, a conduit from said heater to said oven and a conduit from said blower to said heater.

1,352,894. VIBRATOR. FRED G. HOFFINE, Kansas City, Mo. Filed Apr. 10, 1919. Serial No. 289,031. 6 Claims. (Cl. 74—14.)



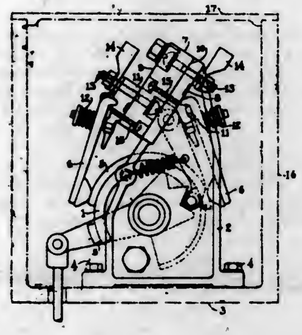
1. A vibrator comprising a casing, a cam shaft rotatable in the casing and having an eccentric portion, a spring-pressed applicator shaft in line with the eccentric portion of the cam shaft and rotatable therewith, and means on the applicator shaft coöperating with the cam shaft to cause reciprocation of the applicator shaft in opposition to the spring.

1,352,895. HANGER. EDGAR JEROME HOFFMAN, Akron, Ohio. Filed May 20, 1920. Serial No. 382,859. 1 Claim. (Cl. 248—32.)



A conduit hanger including opposed sections, each of said sections comprising a pair of spaced arms, a curved supporting member connecting the arms of each pair, said arms having upwardly extending hook members formed integral with one end thereof, each of said arms having a depending flange, the flanges of one pair of arms being disposed in spaced relation with the flanges of the opposed arms, said flanges being provided with openings, and means disposed in the openings and contacting with the outer surfaces of the flange for securing the sections together.

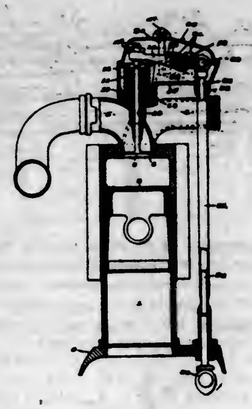
1,352,896. ELECTRICAL CONTROLLER. WILLIAM H. HOLDER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 14, 1918. Serial No. 240,092. 6 Claims. (Cl. 200—8.)



1. In combination, a rotatable drum, a fixed support and contact fingers of uniform length fixed to said support in an opposed relation, said support being disposed relatively to said drum to provide for mounting of said contact fingers upon the former in a common plane but in an offset relation to engage said drum at substantially diametrically opposed points.

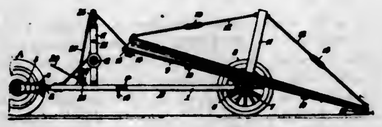
1,352,897. VALVE-MECHANISM SUPPORT. ARTHUR HOLMES, Syracuse, N. Y., assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y., a Corporation of New York. Filed Jan. 19, 1914. Serial No. 813,084. 11 Claims. (Cl. 123—90.)

1. In an internal combustion engine, the combination of a cylinder having inlet and exhaust passages, valves controlling said passages, valve operating mechanism, and a support for said mechanism carried at points spaced apart by the cylinder and a portion of the engine less subject to the heat of the engine than the cylinder, said support being mounted directly on the cylinder and spaced



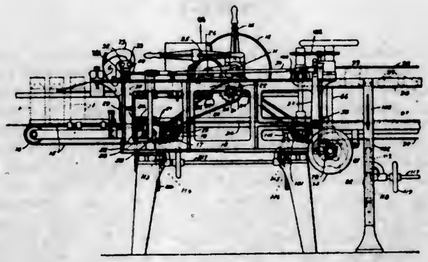
apart from the inlet and exhaust pipes, substantially as and for the purpose described.

1,352,898. WRECKING-TRAILER FOR AUTOMOBILES. GEORGE HENRY HOUCK, Tonawanda, N. Y. Filed July 8, 1919, Serial No. 309,317. Renewed Aug. 7, 1920. Serial No. 402,034. 7 Claims. (Cl. 214—85.)



1. A wrecking trailer for automobiles, comprising a truck provided with means at one end for connecting it to and supporting it by a hauling vehicle and a single pair of supporting wheels at the other end, whereby the truck is supported in part by the hauling vehicle and in part by said wheels, a tiltable platform of a size to receive and sustain an automobile and mounted intermediate of its ends on the wheeled end of the truck, and means connected to the forward end of the platform for tilting the platform to bring the rear end to the ground and hold it in the tilted position.

1,352,899. PACKAGE-SEALING MACHINE. HARRY L. JOHNSON, Boston, Mass., assignor to Percy E. Ginn, Boston, Mass. Filed Oct. 3, 1918. Serial No. 256,730. 17 Claims. (Cl. 93—6.)



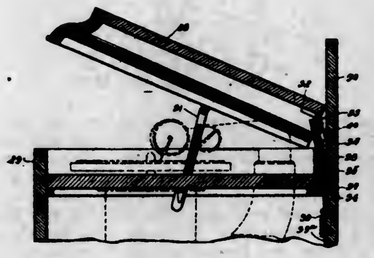
17. In a package-sealing machine, the combination with a guideway, of a conveying device to convey packages along the guideway, means to fold the flaps of the packages, and a drier situated in line with said guideway, said drier having means independent of the conveying device to feed packages positively therethrough, the entering end of the drier being so situated relative to the delivery end of the guideway that each package will be fed directly into the feeding means of the drier by said conveying device.

1,352,900. VALVE. ALBERT S. KELLAM and NORMAN F. NORVELL, Richmond, Va. Filed Mar. 15, 1919. Serial No. 282,975. 1 Claim. (Cl. 251—6.)



A device of the class described including a body having a recess in a face thereof, said recess comprising a conical portion and surmounting cylindrical portion, the lower portion of the recess affording a valve seat, said body having ports in communication with the valve seat, a conical valve plug rotatably mounted within the valve seat and provided with a transverse port adapted to register with the ports of the body, a lock extending within the outer end portion of the recess, said lock including a barrel, said barrel and body having coacting means for holding the barrel against rotation within the recess, and a rotatable member arranged within the barrel and bearing against the inner extremity of the barrel, said rotatable member directly engaging the adjacent conical end of the valve plug.

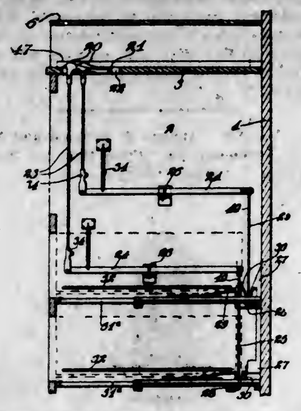
1,352,901. TALKING-MACHINE. JOHN S. KRAMER, Steger, Ill. Filed June 16, 1919. Serial No. 304,366. 2 Claims. (Cl. 45—52.)



1. The combination of a base rail, a rail hinged to the top thereof, a lid having a hinged connection with the top of the second mentioned rail parallel to the hinge connection thereof, resilient means normally holding the rails in vertical alinement, and a structure back of the rails and the lid against which said parts abut, the second mentioned rail swinging away from the structure when the lid is swung in one direction, and carrying said lid bodily away from the structure.

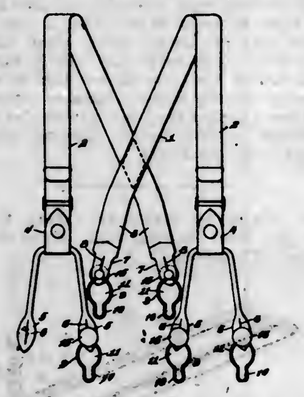
1,352,902. LOCKING DEVICE FOR DRAWERS. JOHN S. KRAMER, Steger, Ill. Filed June 23, 1919. Serial No. 306,224. 8 Claims. (Cl. 45—94.)

1. The combination of a pair of slidable drawers, independent locking means for the drawers, operating means



for the locking means, a third drawer, and an actuator in said third drawer adjustable to selectively engage the aforesaid operating means.

1,352,903. SUSPENDERS. NATHANIEL W. MCCONNELL, Florence, Colo. Filed Mar. 13, 1918. Serial No. 222,130. 1 Claim. (Cl. 241—25.)



Suspenders provided with end portions having tabs formed with button holes, buttons provided with headed ends and having shanks passing through said button holes, and wire connectors having wire engaging loops at one end, curved portions forming entrance spaces to said loops, and crossed portions at the opposite ends thereof extending on curved lines continuous with the aforesaid curved portions, said crossed portions terminating in reversely facing semicircular spring jaws embracing the shanks of the buttons, said jaws being disposed between the suspender ends and certain heads of the buttons.

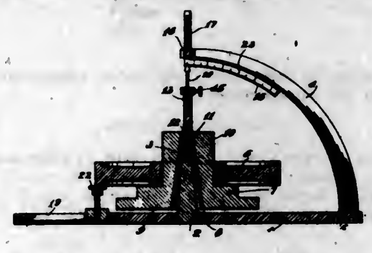
1,352,904. MACHINE FOR MANUFACTURING COMBINED SPIRAL REINFORCEMENT AND FASTENING. ARCHIBALD MCPHAIL, Fargo, N. D., assignor to Sterling Machine and Wire Works, Beneficial Trust Association (Unincorporated), Sterling, Ill. Filed Jan. 22, 1919. Serial No. 272,594. 60 Claims. (Cl. 140—90.)

37. The combination with a revoluble tubular needle adapted to receive a portion of the roll of a reinforcement to be formed, means for rotating the needle, parallel guide rods disposed respectively above and below the needle and paralleling the same, a reciprocating device swung between the guide rods and anti-frictionally mounted on the same and provided with let-out means for feeding the remaining portion of the wire to the exterior of the



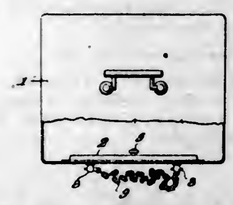
needle, and an endless drive chain for the reciprocating device and means for intermittently operating the same.

1,352,905. FLYWHEEL-BALANCER. MICHAEL MACHROL, Kenosha, Wis. Filed Sept. 2, 1919. Serial No. 321,056. 4 Claims. (Cl. 73—51.)



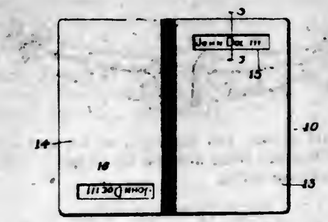
1. In a fly wheel balancing device, a base, a fulcrum post carried thereby, a fly wheel support having a portion arranged to enter the shaft opening of the center of the fly wheel, said support having a portion arranged to engage and be supported by said fulcrum post, a slidably adjustable pointer carried by said fly wheel support, and a scale coöperating with said pointer for indicating the excess weight on one side of the fly wheel, and being adjustable toward and away from said pointer.

1,352,906. ANCHORING DEVICE FOR SAFES. KATSUSABURO MAMIYA, Ohito, Japan, assignor to Kabushiki-Kwaisha Mamiyado, Tokyo, Japan, a Company of Japan. Filed May 8, 1919. Serial No. 295,644. 1 Claim. (Cl. 109—1.)



A safe provided with a pair of openings in its rear wall, a casing secured to the inner face of said rear wall and covering said openings, a slidable rod within such casing, such slidable rod being provided with a pair of plates adapted to move across the face of the openings, a spring interposed between one end of the rod and the opposing end of the casing for normally holding the rod in such a position that the plates tend to cover the openings, and a pair of anchoring members secured to some immovable object, such anchoring members comprising rods formed with notches adapted to be engaged by such plates, whereby, when the ends of such rod are projected within the openings formed in the safe, the plates will firmly engage such notches and prevent, by virtue of the spring, the withdrawal thereof by any exterior influence.

1,352,907. PASS-BOOK. THOMAS P. MARTIN, JR., Oklahoma, Okla. Filed Apr. 8, 1919. Serial No. 288,520. 6 Claims. (Cl. 281—17.)



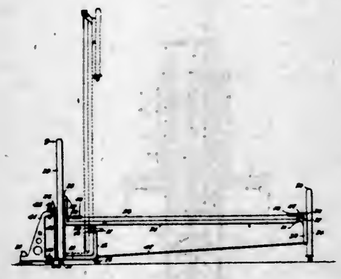
1. A pass book cover having inner and outer walls forming an enlarged inwardly opening pocket upon one portion thereof, the outer wall having an outer covering provided with a sight opening adjacent one end, and an inner covering between the pocket and the sight opening, said outer wall including an inner layer and an inner covering between the sight opening and the said pocket, the inner layer being provided with a slot opposite the sight opening and the said inner covering being provided with a slit adjacent the inner end of the sight opening through which access may be had to the slot of the said inner layer from the pocket of the cover.

1,352,908. SEPARABLE CUFF-BUTTON. FREDERICK R. MATTESON, Taunton, Mass., assignor to Freeman-Daughaday Company, Chartley, Mass., a Corporation of Massachusetts. Filed Jan. 6, 1920. Serial No. 349,681. 5 Claims. (Cl. 24—102.)



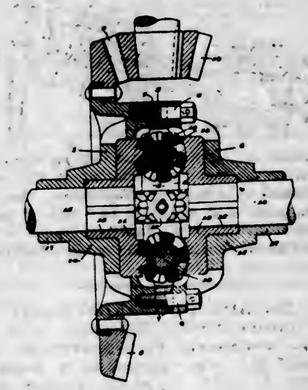
1. A separable cuff button formed in two parts each having an inner and an outer flange member connected by a post, one part being provided with an engaging head portion, the other part having a pair of elongated opposing yieldable arms mounted within its post and spaced apart at their free ends to receive and releasably retain the said head of the other part between them.

1,352,909. FOLDING BED. HENRY J. MEYERS, Los Angeles, Calif. Filed June 6, 1917. Serial No. 173,154. 7 Claims. (Cl. 5—54.)



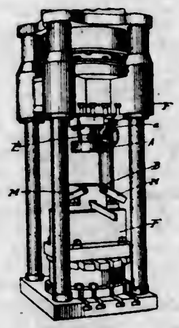
7. In a folding bed, a bed frame, a pair of members to which said bed frame is pivoted adjacent to its head end to swing vertically, said members being mounted for reciprocal movement and to swing on a vertical axis, and a vertically reciprocal guide member pivoted to the head of the bed frame.

1,352,910. COMPENSATING GEARING. DONALD D. ORMSBY, Syracuse, N. Y., assignor to Brown-Lipe-Chapin Co., Syracuse, N. Y., a Corporation of New York. Filed May 18, 1914. Serial No. 839,359. 4 Claims. (Cl. 74—99.)



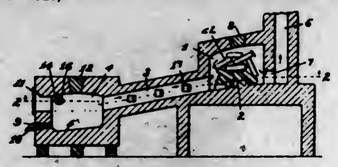
1. A compensating gearing comprising a casing including opposing side sections having opposing peripheral flanges, an intermediate section having a transverse recess therethrough and flanges extending between the peripheral flanges of the side sections, and means extending through the flanges of the side sections to clamp the same together onto the intermediate section, opposing gears located in the side sections, and a compensating pinion supported in the recess in the intermediate section and arranged with its axis extending crosswise of the axis of the opposing gears and of a line radial to the axis of the opposing gears, substantially as and for the purpose described.

1,352,911. APPARATUS FOR FORMING FORGINGS. EDWARD J. PAQUE, Cincinnati, Ohio, assignor to The Pollak Steel Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 1, 1919. Serial No. 314,696. 5 Claims. (Cl. 78—18.)



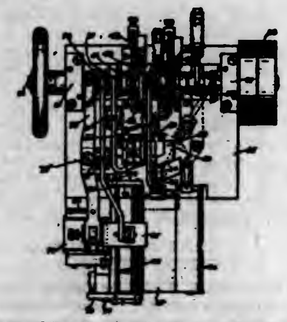
1. In an apparatus for forming metal the combination of a lower die member having a recess conforming to the shape of the walls of a part of the article to be formed, an upper die member having a central recess and adapted to coöperate with the recess in the lower die member to form a die chamber of the shape of the article to be manufactured, a punch seated in the recess in the upper die member and a removable stop block adapted to hold the punch in a retracted position.

1,352,912. PROCESS AND APPARATUS FOR RECLAIMING AND REFINING COPPER AND OTHER METALS. ALLEN R. PARTRIDGE, Cleveland, Ohio. Filed Sept. 15, 1919. Serial No. 323,863. 11 Claims. (Cl. 75—62.)



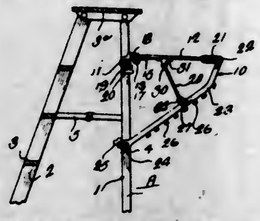
1. A process for reclaiming and refining metals consisting in heating the materials from which the metals are to be reclaimed to a melting temperature, then reducing the heat to cause said materials to "sweat" and trickle down an incline, and then admitting oxygen to the trickling material for purifying the same, substantially as described.

1,352,913. MACHINE FOR MAKING METAL FABRIC. JOSEPH ARTHUR PAYETTE, Providence, R. I., assignor, by mesne assignments, to General Chain Company, Providence, R. I., a Corporation of Massachusetts. Filed July 23, 1917. Serial No. 182,192. 6 Claims. (Cl. 140—3.)



1. In a machine for making link-mesh fabric, a plunger for holding the arms of the lock-link when in engagement with the ring-links, and a spur in said plunger for maintaining a slight separation at the ends of the arms when folded to facilitate soldering.

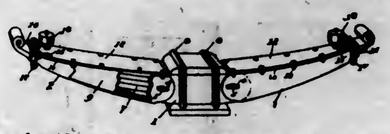
1,352,914. SHELF FOR LADDERS. SIDNEY PLASCLASCOVITIE, Denver, Colo. Filed Aug. 30, 1918. Serial No. 252,075. 5 Claims. (Cl. 304—34.)



1. In a shelf attachment for ladders, the combination, of a supporting plate, a rod carried by said supporting plate parallel to the inner edge thereof, and attaching brackets adjustably mounted upon said rod for lateral movement with respect to the plate and for movement toward or from each other.

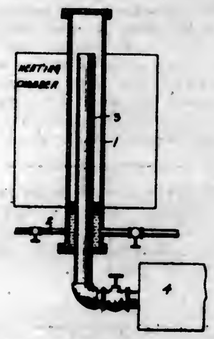
1,352,915. MEANS FOR LUBRICATING LEAF-SPRINGS. JAMES I. RICHEY, Cincinnati, Ohio. Filed Sept. 14, 1918. Serial No. 254,092. 2 Claims. (Cl. 267—37.)

1. A device of the character specified, comprising in combination with a leaf spring, a housing for said spring, said housing comprising a middle section, end sections pivotally secured to said middle section, said middle and end sections being arranged to fit around the bottom and



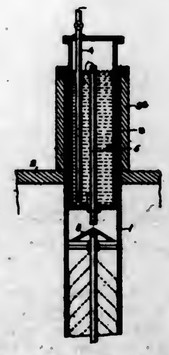
sides of said spring, and cover plates for said end sections, said housing being adapted to contain a supply of lubricant for said spring.

1,352,916. APPARATUS FOR TREATMENT OF HYDROCARBONS. WALTER F. RITTMAN, Pittsburgh, Pa. Filed Aug. 3, 1917. Serial No. 184,232. 2 Claims. (Cl. 196—3.)



1. In an apparatus for the treatment of hydrocarbons, the combination of a substantially vertical tubular retort, a tube extending upwardly into said retort, the tube extending upwardly into said retort, the tube and retort being constructed and arranged to leave an unobstructed annular chamber therebetween, the portion of the tube within the retort having openings for the passage of fluids, means for feeding the hydrocarbon to be treated into the lower portion of one of the foregoing members, means for maintaining vaporizing and cracking temperatures within the retort, and means for segregating the products of cracking connected to the other member.

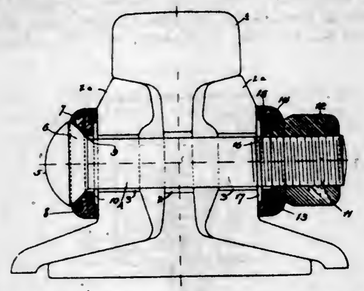
1,352,917. APPARATUS FOR TREATMENT OF HYDROCARBONS. WALTER F. RITTMAN, Pittsburgh, Pa. Filed Nov. 7, 1917. Serial No. 200,731. 7 Claims. (Cl. 196—3.)



1. In an apparatus for treating hydrocarbons, the combination of a furnace, a main retort arranged in a substantially vertical position in said furnace, an auxiliary

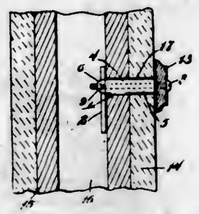
retort arranged in such relation to the main retort as to receive heat therefrom, means for feeding oil into the auxiliary retort, means for maintaining a body of oil in said auxiliary retort and means for conducting fluid from the auxiliary retort into the main retort.

1,352,918. FASTENING DEVICE. WILLIAM L. ROHBOCK, Cleveland, Ohio. Filed Feb. 21, 1920. Serial No. 360,291. 3 Claims. (Cl. 85—1.)



1. Fastening means comprising a bolt threaded at one end and provided at its other end with a head having a partly spherical portion, a head on the threaded end of the bolt having a partly spherical portion, and resilient seat-plates having curved seats in which the spherical portions of said heads are movably mounted.

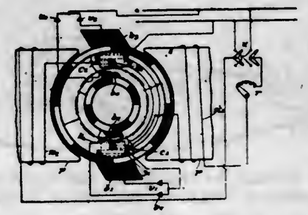
1,352,919. COMBINED CLAMP AND FASTENER. CLAUDE C. SALMONS and JAMES MAHONEY, West Philadelphia, Pa. Filed Sept. 14, 1917. Serial No. 191,403. 2 Claims. (Cl. 85—3.)



1. As an article of manufacture, a fastening device comprising a body formed of a pair of flat strips of a pliable material, a cross piece formed integrally with the lower edges of the strips and holding the same in spaced parallel relation, said cross piece connecting said strips at a point intermediate their ends whereby to provide long and short sections extending to either side thereof, a tumble bolt eccentrically pivoted to the short sections of the strips and having an opening therein, and a fastening member adapted to be extended through the body for engagement with the opening in said tumble bolt, the construction being such that the long sections of the strips may be bent laterally in opposite directions and severed at any point along their length beyond said cross piece whereby to form retaining members of any required length.

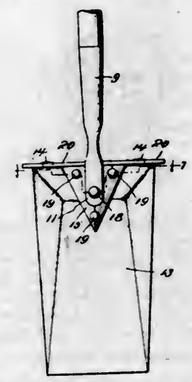
1,352,920. DIRECT-CURRENT MACHINE. ARTHUR SCHERBIUS, Berlin, Germany. Filed Nov. 25, 1914, Serial No. 874,061. Renewed Feb. 4, 1920. Serial No. 356,125. 4 Claims. (Cl. 171—228.)

1. A direct current dynamo electric machine, comprising in combination an armature having a closed winding, two commutators having electrically conductive segments alternating with insulation pieces and connected alternately to the individual ends of the armature winding, a pair of brushes operating on each commutator, narrower than said insulation pieces, connections between the two brushes of a single pole, means for producing a commutating field, sharply defined in the direction of the armature conductors which first enter the commutating field, for



over-commutating the current in the armature coils which are short-circuited by the brushes, and means for preventing current from flowing in a direction opposite to that in which the normal commutating current flows through said connections.

1,352,921. SPADE OR SHOVEL. JOHN A. SOUTHWELL, Scranton, Pa. Filed Apr. 24, 1919. Serial No. 292,418. 4 Claims. (Cl. 294—60.)

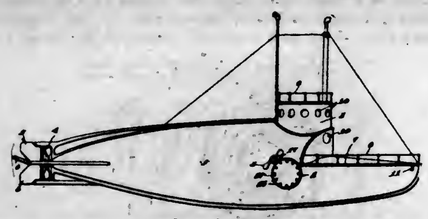


1. In a spade or shovel, a blade having a central, substantially V-shaped forwardly offset deformed portion at the upper end thereof, a shank having front and rear blade engaging portions, said front blade engaging portion being arranged to overlie the front surface of the deformed portion of the blade and the rear blade engaging portion being substantially of triangular form and arranged to fit within the concavity at the rear side of said concaved portion, said rear blade engaging portion being provided with a rearwardly projecting longitudinally extending stiffening offset disposed in alinement with the rear surface of the body of the blade, the said blade engaging portions of the shank being arranged to extend downwardly in convergent relation to each other, fastening means connecting the body portion of the rear blade engaging portion of the shank with the deformed portion of the blade, and fastening means connecting the offset of said rear blade engaging portion of the shank with the deformed portion of the blade and the said front blade engaging portion of the shank.

1,352,922. PROPULSION MECHANISM. LEO ALMONT SPRAGUE, Henderson, N. Y. Filed Sept. 2, 1916. Serial No. 118,289. 3 Claims. (Cl. 114—16.)

1. In a propulsion mechanism, the combination of a hull, and a propeller at one end of the hull, and side propellers located forward from the central part of the hull, shafts for the side propellers extending in planes which extend lengthwise of the hull, the shafts for the side propellers

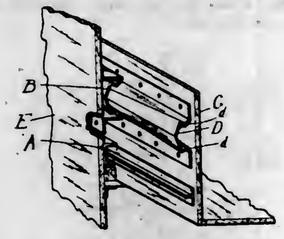
being shiftable in said planes into different radial positions, means for rotating the side propeller shaft and



means for shifting the shafts into different radial positions, substantially as and for the purpose described.

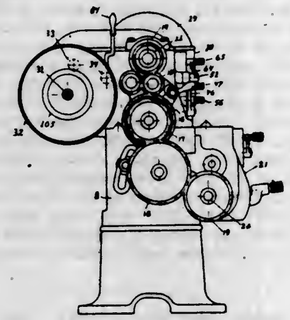
1,352,923. [WITHDRAWN.]

1,352,924. DRAWER-STABILIZER. WILLIAM F. STREICH, Detroit, Mich. Filed Dec. 26, 1919. Serial No. 347,362. 2 Claims. (Cl. 45—77.)



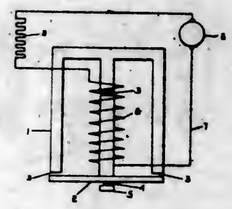
1. In a drawer stabilizer the combination with a cabinet wall and a drawer, of a channel strip mounted upon the cabinet wall and having formed in it a longitudinal dove-tailed groove, and a guide rail mounted on the drawer and having formed upon it a head with under-cut sides and adapted to fit the dove-tailed groove of the channel strip in the closed position only of the drawer.

1,352,925. LATHE-GEARING. LOUIS THIEL, Cincinnati, Ohio, assignor to The Cincinnati Lathe & Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 28, 1919. Serial No. 285,885. 8 Claims. (Cl. 74—58.)



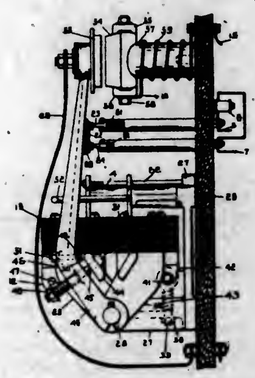
1. A spindle driving mechanism comprising a headstock having a chamber formed therein to serve as a housing for speed-changing mechanism, a spindle journaled in said headstock and provided with a plurality of spindle driving gears of different diameters rigidly mounted thereon toward the forward or chuck supporting end of said spindle, first, second, and third speed-changing shafts journaled in said housing each provided with speed changing gears at their forward ends adjustable endwise to engage corresponding gears rigidly mounted upon the next succeeding shaft and shifting means actuated from the exterior of the headstock to adjust endwise and lock said adjustable gears.

1,352,926. ALTERNATING-CURRENT ELECTROMAGNET. ERNEST B. THURSTON, Toledo, Ohio, assignor to The Haughton Elevator and Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 24, 1917. Serial No. 164,310. 14 Claims. (Cl. 175—338.)



2. A pair of normally spaced magnetic members, an alternating electric circuit coil for establishing a magnetic flux through said members to reduce the spacing therebetween, and non-inductive means having its resistance at an angle to the resistance of the first coil.

1,352,927. ELECTRIC SWITCH. ERNEST B. THURSTON, Toledo, Ohio, assignor to The Haughton Elevator and Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 24, 1917. Serial No. 164,311. 13 Claims. (Cl. 200—91.)

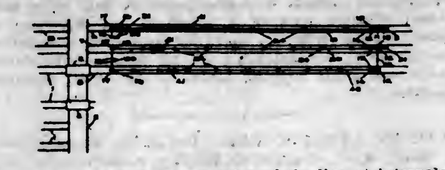


12. A single phase alternating current electro-magnet embodying opposing interchangeable multi-polar laminated members having a plurality of pairs of poles, and a pivotal mounting for the members a common radial distance from said poles.

1,352,928. PROGRESSIVE MANUFACTURE CONVEYER. ERNEST B. THURSTON, Toledo, Ohio, assignor to The Haughton Elevator & Machine Co., Toledo, Ohio, a Corporation of Ohio. Filed Sept. 3, 1918. Serial No. 252,489. 18 Claims. (Cl. 104—165.)

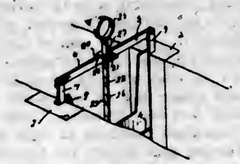
1. A horizontally disposed way, a drive line provided with an end, said line coacting to progress material along

the way, an actuator for the line end for effecting material progress in one direction, and additional means for



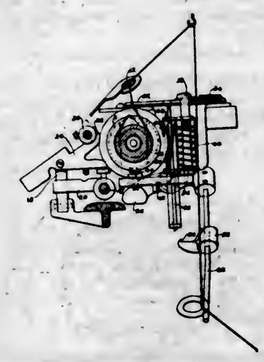
effecting reversal of the actuation of the line at intervals intermediate the extent of the way.

1,352,929. WEIR FOR IRRIGATION-DITCHES FOR MEASURING WATER. MONTRAVEL H. TUCKER, Blanca, Colo. Filed Jan. 7, 1920. Serial No. 349,843. 6 Claims. (Cl. 61—28.)



1. In a weir, the combination with an irrigating ditch having opposite guides in its walls, of a weir frame including a weir plate and guides engaging the guides of the ditch, said weir having upper and lower openings, and a sand gate mounted in the guides of the weir for closing either of said openings.

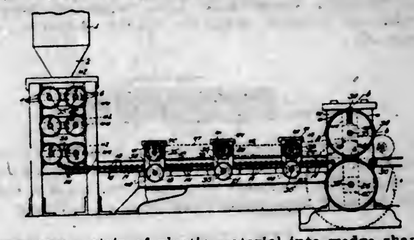
1,352,930. WINDING-MACHINE. WILLIAM P. WOOD, Pawtucket, R. I., assignor to Jenckes Spinning Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed Jan. 3, 1919. Serial No. 269,461. 12 Claims. (Cl. 242—31.)



1. A winding machine, having, in combination, winding mechanism, bunch building mechanism, and means for controlling the starting of the driving mechanism for the winding mechanism from the bunch building mechanism.

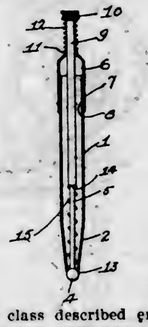
1,352,931. MACHINE FOR MAKING COMPOSITE SHINGLES. OSCAR ALTPETER, Milwaukee, Wis. Substitute for application Serial No. 83,714, filed Mar. 13, 1916. This application filed Oct. 13, 1919. Serial No. 330,249. 12 Claims. (Cl. 25—42.)

1. A machine for making composition shingles, including a compression roller divided longitudinally into alternate bulging and depressed portions to form a wave-like surface, the radial dimensions in any given longitudinal plane radiating from the axis of the roller being equal, and the radial lines in any cross-sectional plane continuously varying in length, whereby said roller is adapted



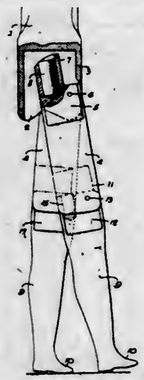
to compress a strip of plastic material into wedge shaped members, substantially as described.

1,352,932. ANTISEPTIC-POWDER-DISPENSING PENCIL. NILS OLAF ANDERSON and CONRAD SCHEICH, Chicago, Ill. Filed Sept. 8, 1919. Serial No. 322,464. 3 Claims. (Cl. 128—265.)



1. A device of the class described embodying therein a barrel having an end portion provided with an opening, means for closing the opening, and means for discharging powder from the barrel through said opening, said discharging means including a stem arranged for longitudinal movement and a plurality of convolutions thereon movable as a whole with said stem and part thereof passing through said discharge opening during the discharge operation and thereby carrying powder therewith for discharge.

1,352,933. WALKING DOLL. CLARENCE F. ARNOLD, Philadelphia, Pa. Filed Dec. 3, 1919. Serial No. 342,184. 3 Claims. (Cl. 46—40.)



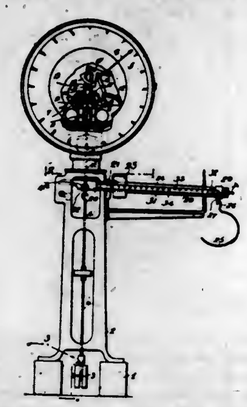
1. The combination in a doll, of a body portion; leg members pivoted to the body portion; a weight mounted on each leg member back and above the pivot thereof which tends to move the legs forward so that, when pressure is taken off of a leg, the weight will advance it.

1,352,934. ELECTRIC-HEATING BODY. ANDERS ARNTZEN and KNUT TROSDAHL, Sarpsborg, Norway, assignors to Elektrisk Varmeteknik A/S., Sarpsborg, Norway. Filed Oct. 17, 1919. Serial No. 331,456. 4 Claims. (Cl. 219—48.)



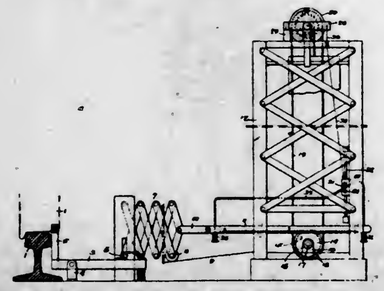
1. An electric resistance element, comprising a base formed with relatively-deep surface grooves which extend in the direction of current flow, and a coating of a heavy metal having a high fusing point filling said grooves.

1,352,935. WEIGHING-SCALE. JOSEPH C. BARRETT, Brooklyn, N. Y., assignor to American Kron Scale Company, New York, N. Y., a Corporation of New York. Filed Feb. 9, 1916. Serial No. 77,161. 5 Claims. (Cl. 265—62.)



1. A scale comprising an indicator and dial, mechanism to operate one of the former with respect to the other, a draft rod connected with said mechanism, means connected with the draft rod to support articles to be weighed or counted, a pivoted beam operatively connected with said draft rod between said means and mechanism, means carried by said beam at a distance from its pivot to receive articles as counters, said beam having means between its pivot and said article-receiving means to support an article as a counter at different distances from such pivot.

1,352,936. POWER TRANSMISSION AND STORAGE APPARATUS. THOMAS F. BARRETT, South Pottstown, Pa. Filed Aug. 5, 1919. Serial No. 315,564. 9 Claims. (Cl. 185—33.)



8. The combination of a member mounted to be actuated by the wheels of a train; a reciprocable element; a movement magnifying device connected between said element and said member; a shaft; means for causing said reciprocable element to rotate the shaft only when said wheel actuated member is moved in one direction; a power storing device; a clutch for connecting said device to the shaft; and means for causing closing of the clutch while said shaft is being turned by the wheel actuated member.

1,352,937. BELT-BUCKLE. DANIEL S. BEARS, Providence, R. I., assignor to Reliance Manufacturing Co., Providence, R. I., a Copartnership comprising David A. Hart and Dexter E. Partelow. Filed May 4, 1920. Serial No. 378,893. 2 Claims. (Cl. 24—194.)



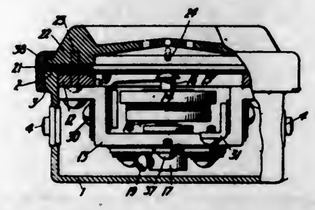
1. A belt buckle comprising a body having side walls, each provided with an inclined guide slot, a belt-gripping plate being adapted to grip one end of the belt against the inner surface of said body and the opposite edge thereof being inclined so that when in operative position it rests against said inner face of said body to guide the incoming opposite belt-end thereover, said plate being provided with trunnions mounted in said slots to both slide and tip therein and so lift its belt-engaging edge clear of the belt to completely release the same.

1,352,938. FIREARM. ROBERT S. BLAIR, South Orange, N. J. Filed Nov. 6, 1915. Serial No. 59,914. 12 Claims. (Cl. 42—76.)



12. In gun construction of the class described, a barrel having a bore which is substantially circular at a section adjacent the breech end and a section which is elliptical adjacent the muzzle thereof, the inner walls of said barrel extending substantially evenly from one of said sections to the other.

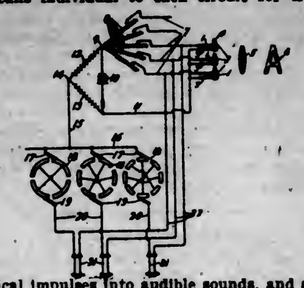
1,352,939. TELEPHONE-TRANSMITTER. WILLIAM T. BOOTH, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 24, 1917. Serial No. 150,632. 11 Claims. (Cl. 179—122.)



2. A casing for acoustic apparatus comprising a cup, a diaphragm supported within the cup, a cover for the casing, and a moisture proof gasket providing moisture proof joints between the cover and cup and between the diaphragm and cup.

1,352,940. OPTIPHONE. FAY C. BROWN, Berkeley, Calif. Continuation of application Serial No. 26,357, filed May 6, 1915. This application filed July 31, 1916. Serial No. 112,294. 9 Claims. (Cl. 250—1.)

1. An optiphone comprising a group of circuits each including a resistance, means for producing electrical impulses in the different circuits at audible rates and of different characteristics from each other, telephonic receiving means individual to each circuit for translating



the electrical impulses into audible sounds, and a common earpiece for said receiving means.

1,352,941. METHOD AND MEANS FOR MAKING ASBESTOS SHINGLES. ALFRED CROOK and RICHARD D. CHAPMAN, Philadelphia, Pa., assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Apr. 11, 1919. Serial No. 289,347. 5 Claims. (Cl. 25—42.5.)



1. The method herein-described, which consists in preparing a substantially flat core or matrix of wet cementitious material, establishing a localized air blast, feeding flocky asbestos material in the presence of said blast, whereby some of it is caused to adhere to said martix, and then incorporating said materials by subjecting them to exerted pressure.

5. Apparatus for the purpose stated, comprising the combination of means for establishing a substantially flat core or matrix of wet cementitious material, means for establishing a localized air blast in proximity therewith, means for delivering asbestos in the presence of said blast, whereby, some of it is caused to adhere to the matrix, and means for incorporating and compacting the cement and asbestos.

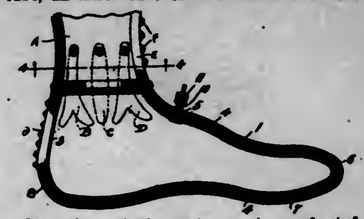
1,352,942. PNEUMATIC FOOT. LEWIS DODGE and CHARLIE B. DODGE, Morse Bluff, Nebr. Filed Oct. 6, 1919. Serial No. 328,832. 4 Claims. (Cl. 3—8.)



1. In an artificial foot, the combination with an outer casing of rubber or rubber fabric substantially of the shape of the human foot, having an opening therein for the insertion of an inner tube, of an inner tube of soft rubber substantially of the configuration of the outer casing adapted to fit within the latter and means which will permit of the inflation of said inner tube.

1,352,943. PNEUMATIC FOOT. LEWIS DODGE and CHARLIE B. DODGE, Morse Bluff, Nebr. Filed Feb. 9, 1920. Serial No. 357,184. 3 Claims. (Cl. 3—8.)

1. In an artificial foot, the combination of an outer casing of rubber or rubber fabric substantially of the shape of the human foot, its upper part being provided with metallic braces or supports embedded in the fabric on each side of the leg at or about the location of the ankle and means to secure them to an artificial leg, with an opening in the outer casing for the insertion of an inner tube, an inner tube of soft rubber substantially of



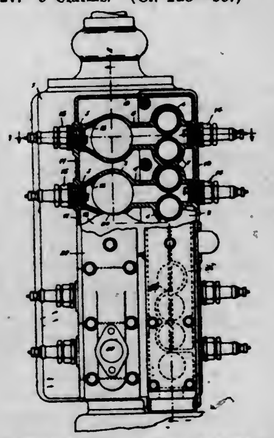
the configuration of the outer casing, adapted to fit within the latter and means which will permit and control the inflation of the inner tube.

1,352,944. UNDERWEAR. ADELE DUVALL, Chicago, Ill. Filed Apr. 9, 1917. Serial No. 160,672. 1 Claim. (Cl. 2—144.)



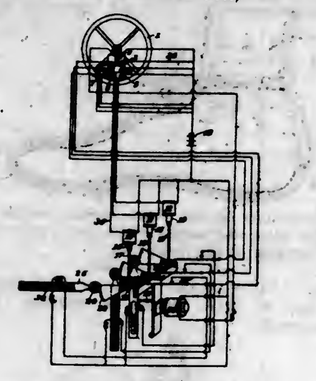
An undergarment having a crotch opening, an apron adapted to conceal and cover said opening, said apron extending to approximately the knees of the wearer and being attached by a line of stitching or its equivalent to the back of the undergarment on a line immediately below and parallel with the waist line thereof, said line of stitching being thence curved forwardly and downwardly to approximately half-way around the garment to substantially the axis of the hip joints on either side of the leg portions thereof, whereby a close fitting of the apron to the body of the wearer is insured in all postures.

1,352,945. INTERNAL-COMBUSTION ENGINE. THOMAS J. FAY, Brooklyn, N. Y., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 4, 1915. Serial No. 53,927. 9 Claims. (Cl. 123—59.)



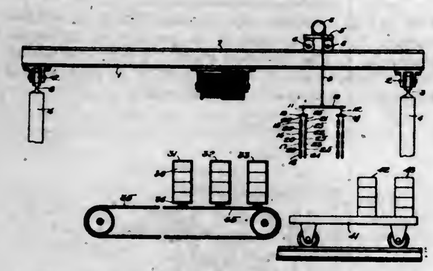
1. In an internal combustion engine, a compression chamber of elongated narrow shape communicating with the engine cylinder at a point adjacent one end of said chamber, and means for simultaneously igniting the mixture at both ends of said chamber.

1,352,946. AUTOMOBILE-SIGNAL. CHARLES H. FELTEN, West Hoboken, N. J. Filed May 6, 1918. Serial No. 232,777. 1 Claim. (Cl. 177—327.)



In an automobile signaling device, a swinging signal-arm, means adapted to swing said signal-arm to display position comprising a lever and a solenoid operating said lever, an electric circuit embodying said solenoid, said circuit being adapted to be opened and closed, and when closed, to energize said solenoid, a second electric circuit, adapted to be opened, and means for closing said second circuit by the operation of the aforesaid lever, a signal-arm lamp and an indicator lamp in series in said second circuit, a signal-arm holder adapted to support one end of said lever and through it said signal-arm when in display position, a third electric circuit, a magnet in said circuit, said circuit being adapted to be opened and closed, and when closed, to energize said magnet and withdraw said signal-arm holder away from said lever permitting the signal-arm to drop into normal position.

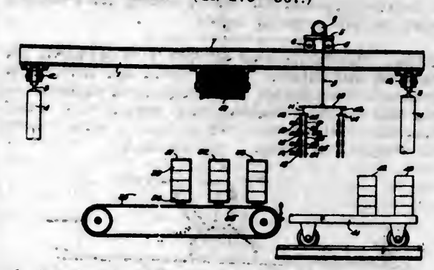
1,352,947. PROCESS FOR HANDLING CLAY PRODUCTS. JONATHAN P. B. FISKE, Newton, Mass. Filed Oct. 29, 1917. Serial No. 198,992. 2 Claims. (Cl. 294—88.)



1. That improvement in the art of manufacturing hollow clay articles, which consists in first piling a plurality of said articles into a vertical column with the air spaces substantially in vertical alinement, lowering a pair of clamping devices adapted to be electrically energized through adjacent vertical air spaces in the column of clay articles, said pair of electrical clamping devices being positioned on each side of an inner web in said clay articles, then supplying electrical energy to said clamping devices, whereby the pair of devices will clamp automatically on opposite sides of said inner web of each article in the column and then lifting the clamping devices and said column of articles while the clamps are energized.

2. The improved process of handling hollow clay articles having an inner web adjacent air spaces, which consists in providing a pair of electrical clamping devices, one device comprising a magnet and the coöperating member a keeper, piling a plurality of said articles into a plurality of columns with the webs and air spaces of each article substantially in alinement, then positioning a plurality of said electrical clamping members arranged with separate members for each article in each column, lowering the clamping devices while normally separated and deënergized, energizing said magnets when a magnet and keeper are positioned to engage each article in each column and then lifting the plurality of columns of articles while the magnets are so energized, transporting the same, lowering the column, deënergizing the magnets and releasing the articles.

1,352,948. ELECTRICAL CLAMP. JONATHAN P. B. FISKE, Newton, Mass. Filed Oct. 31, 1917. Serial No. 199,442. 6 Claims. (Cl. 175—367.)



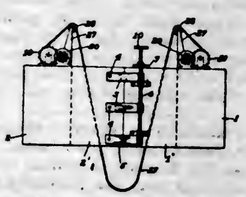
1. An electrical clamping apparatus of the kind described, comprising a supporting member, a pair of coöperating magnetic members flexibly united to said support, the coöperating members being normally spaced from each other, and means to magnetize said coöperating members to clamp an article between them.

1,352,949. MULTIPLE-TOOL HOLDER. JOHN H. FULLMER, Buffalo, N. Y. Filed Jan. 10, 1920. Serial No. 350,579. 3 Claims. (Cl. 29—48.)



1. A multiple tool holder comprising a supporting arm, a turret adapted to support a plurality of tools on different parts of its periphery, and means by which said turret is pivotally connected with said arm and relatively to which said turret is movable lengthwise of the axis thereof, said arm being provided with a shoulder facing the axis of said turret, said arm being provided with a centering boss around said axis and said turret being provided with a circular socket around said axis which receives said boss.

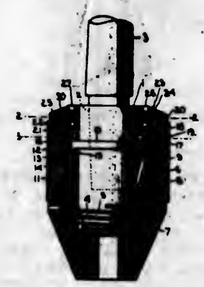
1,352,950. SHIP-SALVAGE DEVICE. KAZIMIEZ GALESKI, Harrah, Okla. Filed Dec. 30, 1919. Serial No. 348,269. 1 Claim. (Cl. 114—49.)



A ship raising device comprising a rectangular pontoon separated along its median line into two sections and inclosing a rectangular space, said sections being

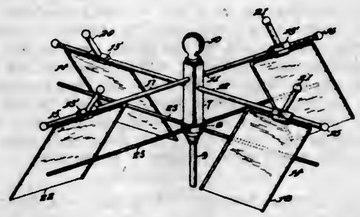
hinged together at one end, releasable means locking the other ends of the sections together, said means comprising brackets on said sections, a vertical shaft journaled in said brackets, a series of arms fixed to said shaft and provided with apertures, a series of pins adapted to engage the apertures of said arm, a spur gear on said shaft, and a pinion in mesh with said spur gear and adapted to be operated by a hand-wheel on the vertical stub shaft on said pinion, and means adapted to raise the ship into the said space.

1,352,951. CHUCK. CHARLES E. GILBERT, North Chichester, N. H. Filed May 29, 1919. Serial No. 300,514. 5 Claims. (Cl. 279—63.)



1. A chuck comprising a head having a tapered screw threaded end, an inclosing integral body portion having converging guide-ways, jaws slidably mounted in said guide-ways having threaded faces engaging the screw threads of said head, oppositely disposed thrust bearings intermediate of said head and body comprising an integral flange on said head, a complementary recess in said body, balls in said recess on opposite sides of said flange, and an adjustable nut engaging one set of balls and with the walls of the recess forming a race-way therefor.

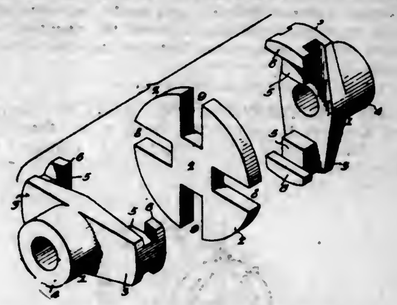
1,352,952. WIND-MOTOR. JAMES G. GRACEY, St. Louis, Mo., assignor of one-fourth to Emanuel Longmeyer, St. Louis, Mo. Filed Nov. 8, 1919. Serial No. 336,665. 3 Claims. (Cl. 170—17.)



3. A wind motor comprising a plurality of axially mounted arms, a center support for said arms, vane supporting blocks rigidly attached to said arms, vane frames swivelly attached to said blocks, the position of the vanes on the blocks being so arranged that when one is vertical the opposite vane is horizontal, counter balance weights attached to the vane supporting blocks, said vane being adapted to be turned edgewise to the wind for stopping the movement of the motor, substantially as specified.

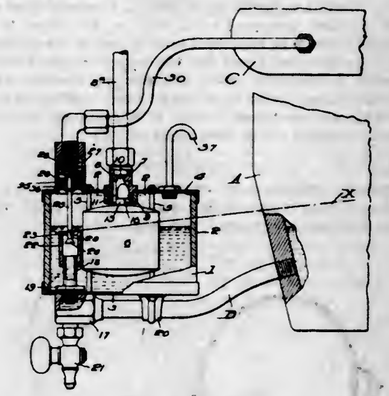
1,352,953. FLEXIBLE COUPLING. JOHN R. GRUNDY, Philadelphia, Pa. Filed Oct. 30, 1919. Serial No. 334,519. 2 Claims. (Cl. 64—96.)

1. A flexible coupling consisting of two shaft-carried elements each including radially extending portions having outwardly projecting blocks on their adjacent faces; and an intermediate cushioning member in the form of a substantially flat plate having recesses for the reception



of the blocks of said members, each of said blocks having a head overhanging the adjacent face of the intermediate member.

1,352,954. ENGINE-CONTROLLED LUBRICATING SYSTEM. VIGGO N. HANSEN, Winnetka, Ill., assignor to Standex Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed July 30, 1919. Serial No. 314,282. 6 Claims. (Cl. 123—196.)



1. In a device for the purpose indicated, in combination with a chamber of a motor in which the liquid level is to be governed, a receptacle having a float-controlled inlet and an outlet provided with a valve, together with means actuated by operation of the motor for closing the outlet valve, and means adapted to open the valve upon cessation of such motor operation.

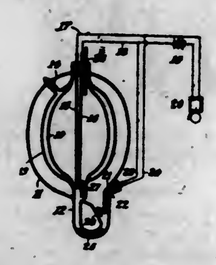
1,352,955. SHOCK-ABSORBER. JOHN H. HAMER, Warsaw, Ohio. Filed July 8, 1919. Serial No. 309,418. 1 Claim. (Cl. 267—29.)



A combined link and shock absorbing instrumentality comprising a yoke member having spaced-apart sides; a base connecting said sides; said sides being provided with slotted openings; a bolt passing through the slotted openings and adapted to connect a vehicle spring to the yoke; a plate having angulated extensions bearing on the sides and provided with openings through which the bolt passes; shock absorbing means confined between the plate and

yoke; ears disposed on the sides and extending outwardly therefrom to constitute a housing; auxiliary shock absorbing means disposed therein; and means for creating a varying frictional resistance between the angulated extensions of the compressing member and the sides of the yoke.

1,352,956. TELETHERMOSCOPE. HARRY W. HARDINGE and HARLOWE HARDINGE, New York, N. Y. Filed Apr. 19, 1916. Serial No. 92,110. 3 Claims. (Cl. 200—141.)



1. In a device of the kind described, a pair of gas-filled chambers, one being heat-insulated, an electrical contact freely movable between the chambers, a pair of fixed separated contacts arranged to be electrically closed by the movable contact in its travel toward one of the chambers, and a by-pass for permitting the escape of gas from one chamber to the other when the movable contact reaches a predetermined point in its travel after closing said fixed contacts, whereby rapid change of temperature will cause repeated closing of the fixed contacts.

1,352,957. BLOW-OUT PATCH. WILLIAM VAN V. HAYES, New York, N. Y. Filed Dec. 5, 1919. Serial No. 342,608. 5 Claims. (Cl. 152—26.)



5. A blow out patch, comprising a body having aprons and formed of a plurality of layers of fabric, and a wedge-shaped insert between the layers of fabric of the aprons at the outer portions thereof, whereby the said outer portions of the aprons will be wedge-shaped in cross section.

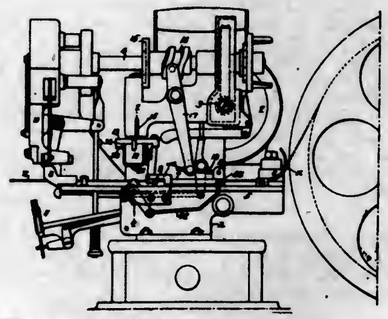
1,352,958. MUSICAL INSTRUMENT. HENRY R. HELLER, New York, N. Y., assignor, by mesne assignments, to Auto Pneumatic Action Co., a Corporation of New York. Filed Oct. 18, 1916. Serial No. 126,296. 1 Claim. (Cl. 84—40.)

In a pneumatically operated musical instrument, a wind-chest, a reservoir pneumatic and connection therebetween, means for applying pressure directly to the pneumatic and for closing the connection from said chest to said pneumatic, said means including a smaller pneumatic operatively secured upon the wall of said first-mentioned pneumatic, said smaller pneumatic having a resiliently retained movable wall, said connection including several passages opening into said smaller pneumatic, a communicating passage between said several passages,



and means for varying the capacity of said communicating passage.

1,352,959. NUMBERING ATTACHMENT FOR PINTICKETING MACHINES. GEORGE W. HENRY, Jr., Philadelphia, Pa., assignor to H. G. Davis Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 18, 1918. Serial No. 240,645. 4 Claims. (Cl. 101—79.)

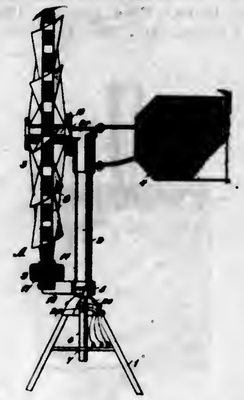


1. The combination in a pin ticketing machine, of a slide; a reciprocating type carrying form; a series of numbering disks carried by the form, some of the disks being automatically operated, while others of the disks are manually operated; a plunger in the form arranged to actuate the first mentioned disks; a wheel having high and low points adapted to operate the plunger; means for actuating the wheel from the slide; and means for releasing the wheel from the control of the slide.

1,352,960. WIND-WHEEL ELECTRIC GENERATOR. ALBERT H. HEYROTH, Geraldine, Mont. Filed Dec. 28, 1916, Serial No. 139,248. Renewed Feb. 10, 1920. Serial No. 357,745. 4 Claims. (Cl. 290—44.)

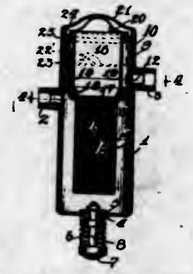
1. An electric generator comprising stator and rotor elements, said rotor including a plurality of inductors, and the stator including a group of three poles, a field winding on the central pole connected with the windings on the other poles in which alternating current is generated, each inductor being of a length substantially equal to the polar faces of two adjacent poles and the intervening gap, and the inductors being spaced apart a distance substantially equal to the gap between the adjacent poles of the stator, a wind wheel on the periphery of which the inductors are mounted, a rotatable head for the wheel, an outside circuit, and a brush and slip ring device connecting the outside circuit with the windings.

2. The combination of a wind wheel, a rotatable head carrying the wheel, a series of inductors on the periphery of the wheel, a stator having a group of poles, an energizing field winding on one pole, windings on the other poles in which alternating current is induced, a commutator rectifier mounted on the wheel, means connecting the alternating current windings with alternate segments, and means engaging the segments to receive continuous current therefrom.



4. The combination of a wind wheel, a head on which the wheel is mounted, a generator rotor in the form of inductors on the periphery of the wheel, a generator stator mounted on the head at a point outwardly from the periphery of the wheel and including a group of poles having windings, the winding on one pole serving as a generator of magnetic lines of force and the other windings having alternating electro-motive force induced therein, a commutator rectifier carried by the wheel, means for connecting alternate commutator segments into groups, means for connecting the groups of segments with the respective windings in which alternating current is generated, a brush bearing on the commutator segments for receiving continuous current therefrom, and a housing for the commutator including a part carried by the wheel and a part carried by the head.

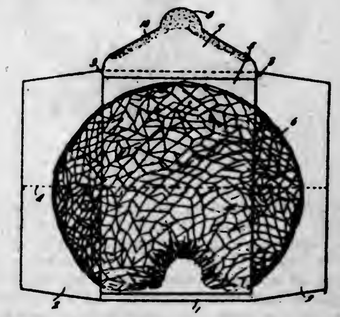
1,352,961. FILTER. HENRY A. HILLS, Grand Rapids, Mich. Filed July 28, 1916. Serial No. 111,906. 8 Claims. (Cl. 210—165.)



3. In a filter of the class described a cylindrical casing, an inlet and outlet thereon, a cylindrical filtering element disposed axially within said casing comprising inner and outer cylindrical screens, and a fabric bag interposed therebetween, a cylindrical member fitted within said casing to support said filtering element, a cup member within said cylindrical member spaced therefrom and bearing upon the upper end of said filtering element to retain the same in position on said supporting member, a cap fitted around said inner cylindrical supporting member and abutting the upper end of said casing between said cap and said cylindrical member, and resilient means interposed between said cap and said cup member to thrust said cup member tightly upon said filtering element to positively retain the same in position.

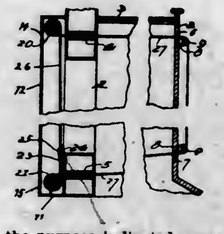
7. In a device of the class described a cylindrical casing, an inner cylindrical member fitted into the upper end thereof, a water proofed filtering means pervious to the liquid to be filtered supported on said inner cylindrical member, a cup member bearing on said means to hold the same attached, a packing ring around the upper end of said inner cylindrical member, and a cap fitted over said cylindrical member and bearing on said packing ring.

1,352,962. PACKAGE. PAUL EDWARD HITZIGRATH, Rockville Center, N. Y. Filed Apr. 2, 1920. Serial No. 370,722. 1 Claim. (Cl. 206—46.)



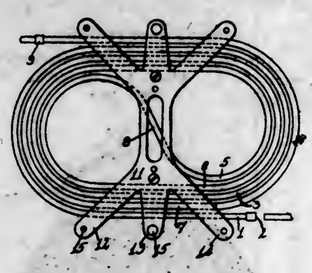
As a new article of manufacture, a package comprising a blank having a pair of parallel fold lines spaced from the edges thereof and having a central longitudinal fold line at right angles to the first mentioned fold lines, a hair net located on the central portion of the blank with its ends extending over said parallel fold lines, a covering sheet on the net between said parallel fold lines, the ends of the net and the ends of the blank outside of the parallel fold lines adapted to fold over the covering sheet whereby the ends of said net are confined between said ends of the blank and said covering sheet and all of said parts adapted to be folded on the longitudinal folded line, and a covering flap at one edge of the blank adapted to be secured to the main portion of the blank when folded.

1,352,963. RADIATOR-COVER. AUBREY F. HOFFMAN, Longford, Kans. Filed May 15, 1918. Serial No. 234,638. 1 Claim. (Cl. 257—132.)



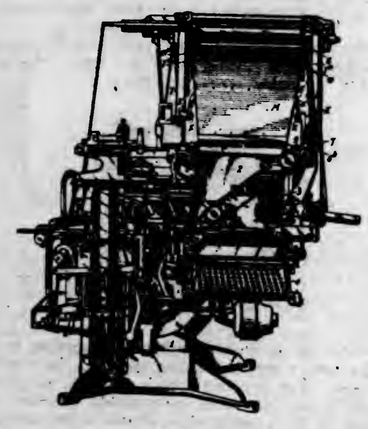
A device for the purpose indicated comprising the combination with a vehicle radiator and dash, both of which are formed with top and bottom openings adjacent one side, of upper and lower transversely disposed rollers mounted on the front of the radiator, a curtain having one end connected to one of the rollers, operative connections between the other end of the curtain and the remaining roller, upper and lower idlers mounted adjacent corresponding openings on the dash, and a cable trained over said idlers and passing through the openings in the dash and in the radiator and having its opposite ends encircling and connecting to the upper and lower rollers, respectively, whereby movement of that section of the cable between the said idlers in one or the other direction may effect the raising or lowering of the curtain, as herein shown and for the purpose specified.

1,352,964. EXPANSION-COIL FOR REFRIGERATING SYSTEMS. CLARENCE M. HOLLEY and FLOYD W. ROBISON, Detroit, Mich., assignors to Utility Compressor Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 5, 1918. Serial No. 210,435. 4 Claims. (Cl. 257—248.)



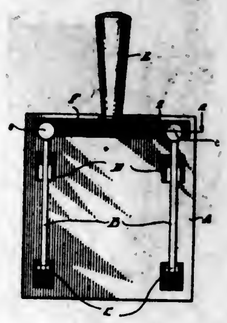
2. An expansion coil for artificial refrigerating systems consisting of a series of units connected together to form a continuous coil, each unit consisting of a return flat-coiled tube, the ends thereof terminating on adjacent sides of the coil and each end being connected with the adjacent end of a contiguous coil on opposite sides thereof, the composite coil thus formed having an inlet at one end and an outlet at the other, and means for securing the units in superimposed relation.

1,352,965. TYPOGRAPHICAL MACHINE. THOMAS SIMMONS HOMANS, Hempstead, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 17, 1918. Serial No. 229,187. 6 Claims. (Cl. 199—20.)



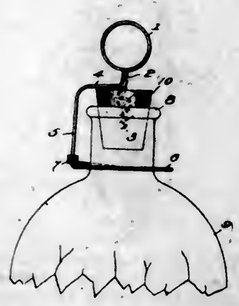
1. In a typographical machine having a frame and matrix assembling and distributing mechanisms thereon, the combination of a pivot bearing on said frame, and a plurality of units of different relative capacities to contain respectively different numbers of matrix magazines and having respectively pivot bearings complemental to the pivot bearing on the frame, the bearings on said frame and units being so determined and located that any one of said units will interchangeably fit said frame and a magazine thereon will be thereby brought into operative relation with the matrix assembling and distributing mechanisms when the respective unit is swung in one direction about said pivot bearings as an axis.

1,352,966. ELECTRIC SWITCH. HANS F. IBRGANG, St. Maries, Idaho. Filed Oct. 16, 1919. Serial No. 331,022. 1 Claim. (Cl. 200—171.)



In an electric switch of the character described, a circuit making and breaking means and means for manipulating the same, an insulated connection between the manipulating means and the circuit making and breaking means comprising an insulating piece having slots in the inner face thereof adapted to receive the ends of the circuit making and breaking means, the said ends of the circuit making and breaking means being split providing outwardly, flaring tongues and means for maintaining the said tongues in said slots and insulated from the outer face of the insulating piece.

1,352,967. BOTTLE-STOPPER PROTECTOR AND SUPPORTER. THOMAS ARTHUR JOHNSON, Rockford, Ill. Filed Feb. 14, 1920. Serial No. 358,659. 5 Claims. (Cl. 215—2.)



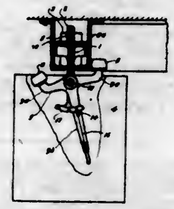
1. An attachment for bottle stoppers serving as a protector and supporter for the stopper, comprising a longitudinal arm having at one end a means of attachment to the stopper and at the other end a guard loop of a size to slip over the neck of the bottle, said loop holding the end of the stopper out of contact with a supporting surface when the stopper is removed from the bottle, and a loop or handle provided at the end opposite the guard loop by means of which the attachment may be manipulated.

1,352,968. CAP. JULIUS JOSEPHS, New York, N. Y., assignor to The Crofut & Knapp Company, New York, N. Y. Filed May 20, 1920. Serial No. 382,698. 5 Claims. (Cl. 2—107.)



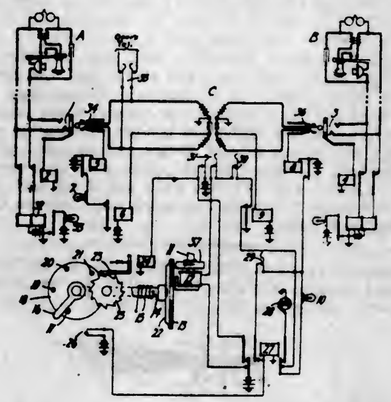
5. In a cap, the combination comprising detachable ear flaps and a strip secured at its ends to the top of said cap on the interior for carrying said ear flaps when not in use.

1,352,969. CARRIER. JOHN KALIX, White Plains, N. Y. Filed May 29, 1920. Serial No. 385,234. 12 Claims. (Cl. 104—91).



1. A carrier having one or more supporting wheels and provided with a movable member having means on opposite sides to coöperate with the outer sides of supporting means for said carrier in different positions of said member.

1,352,970. TELEPHONE-EXCHANGE SYSTEM. CHARLES W. KECKLER, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 4, 1918. Serial No. 256,834. 5 Claims. (Cl. 179—73.)



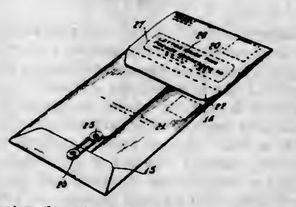
1. In a telephone exchange system, a plurality of lines terminating at a central office, a plurality of link circuits thereat for interconnecting the lines, a timing means for association therewith and adapted for continuous operation for a predetermined period, means controlled jointly by the operator and the subscriber on a connected line for starting the timing means, and operator-controlled means for holding the timing means at any time prior to the expiration of such period.

1,352,971. BALANCED WINDOW. WALDO S. KELLOGG, New York, N. Y., assignor to Austral Window Co., New York, N. Y., a Corporation of Maine. Filed May 24, 1912, Serial No. 699,414. Renewed July 21, 1920. Serial No. 398,396. 14 Claims. (Cl. 20—42.)



14. In a window of the kind described, the combination with upper and lower sashes, of a frame therefor provided with parting strips against which each of said sashes engages, balancing levers connected at their ends to the upper and lower sashes, and guide means for said sashes which guides the sashes by engaging the parting strip and permits them to assume angular positions with respect to the frame, and which maintains a contact of the sashes with the parting strips in any position which the sashes may assume.

1,352,972. ENVELOP. EUGENE U. KIMBARK, Evanston, Ill. Filed Jan. 26, 1920. Serial No. 354,048. 2 Claims. (Cl. 229—72.)

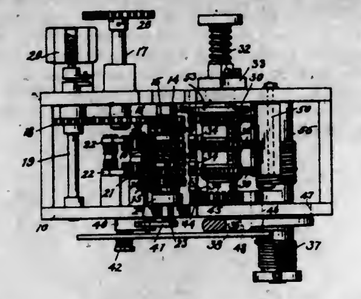


1. An envelop for the transmission in one package of first class and inferior class postal matters consisting of a single flat tubular sheath open at both ends, provided at each end with a flap, and folded upon itself along a transverse line nearer one end of the sheath than the other, to form two separate receptacles which are wholly free from each other except along the line of fold, the flap on the shorter receptacle being provided with an adhesive substance adapting it to be sealed down upon the longer receptacle and the flap of the longer receptacle being provided with a non-sealing closing device.

1,352,973. SETBACK-REGISTER. ROBERT E. KIMBALL, Cleveland, Ohio. Filed Oct. 22, 1915. Serial No. 57,284. 8 Claims. (Cl. 235—144.)

1. In a set-back register, registering mechanism comprising counting wheels with counting numerals, and carrying means including single toothed gears adjacent the carrying wheels, and set-back mechanism comprising stop devices arranged opposite the single toothed gears, and means for turning the wheels so as to bring corresponding numerals into alinement by the engagement of the teeth of the different single toothed gears with said

stop devices, and for then simultaneously rotating all the wheels through a predetermined portion of a revolution



sufficient to bring the alined zero numerals from one given position to another given position.

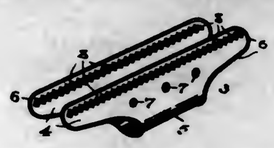
1,352,974. BRASSIÈRE. WALDEMAR KOPS, New York, N. Y., assignor to Kops Bros., New York, N. Y., a Firm. Filed Jan. 29, 1920. Serial No. 354,777. 4 Claims. (Cl. 2—73.)



3. A brassière comprising a front member having central and side sections stitched together so as to conform to the body of the wearer with extensions leading from the lower outer parts of the side sections adapted to extend to and to be secured in position about the waist of the wearer, said extensions leading from said side sections at such an angle that a draft thereon around the waist will cause a substantially straight downward pull upon said central section and a transversely diagonal pull across the front member thereby causing said member to produce a front flattening effect and to serve as a support for the busts of the wearer, tapes connected to said extensions adapted to be passed around the waist and to be secured at the front of the wearer for exerting a draft upon the extensions, said extensions being adapted to be drawn to overlapping relation at the back of the wearer to serve as a support for the small of the back, and a back member connected to the front member at its upper outer portions by means adapted to extend over the shoulders of the wearer and having extensions leading therefrom at the lower outer parts thereof adapted to extend to and to be adjustably secured in position around the waist of the wearer.

1,352,975. CREASE-RETAINING DEVICE FOR HATS. JOSEPH KORN, Newark, N. J. Filed Oct. 11, 1919. Serial No. 330,000. 3 Claims. (Cl. 2—108.)

3. A crease-retaining device for hats comprising a pair of longitudinally extending wings joined by a relatively short center portion, said center portion being bent upon itself to cause said wings to cause the device to assume a U-shaped cross-section adapted to embrace the crease of a hat, combined with marginal retaining means extending from and at the marginal gripping edges of said wings, said marginal retaining means consisting of a series of inwardly extended pointed projections adapted to be embedded in the surface-portions of the crease of the hat so



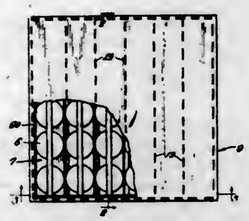
as to retain the said crease-retaining device in position, and additional retaining projections extending inwardly from said wings.

1,352,976. ELECTRIC RETOUCHING-PENCIL. JAMES R. KUGLER and EARL W. KUGLER, Clear Lake, Iowa, assignors to Peter Hauenstein, Minneapolis, Minn., and Charles C. Kastenholz, St. Paul, Minn. Filed Dec. 26, 1917. Serial No. 208,790. 5 Claims. (Cl. 95—101.)



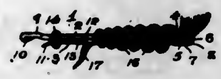
1. A photographic retoucher, comprising, in combination, a pencil barrel, a lead holding tube movably supported on a resilient fulcrum between its ends near an end of said barrel to permit tilting of the tube on the barrel and means for vibrating said tube laterally on its movable support.

1,352,977. SPRING STRUCTURE FOR CUSHIONS. PETER I. LANGLYKE, Chicago, Ill. Filed Apr. 5, 1920. Serial No. 371,270. 1 Claim. (Cl. 5—13.)



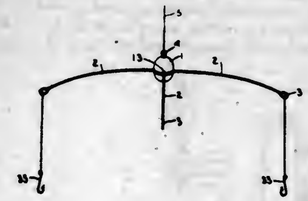
A mattress structure having a plurality of inner coverings, each to contain a series of separated coil springs, each covering unit comprising a single piece of fabric folded in U-shape formation, said folds providing two vertical parallel side walls and a base wall, the latter as wide as the spring to be contained therein, said inner covering divided, at intervals, by vertical seams to provide a series of closed cylindrical pockets constituting a unit and a coil spring in each pocket and an outer covering comprising a series of parallel stalls, each stall rectangular in shape with two side walls and a top and bottom wall, whereby to provide four fabric walls between springs of adjacent units.

1,352,978. HAIR WAVER OR CURLER. FRANK LANTIERI and GABRIEL LANTIERI, Newark, N. J. Filed Feb. 5, 1920. Serial No. 356,526. 12 Claims. (Cl. 132—18.)



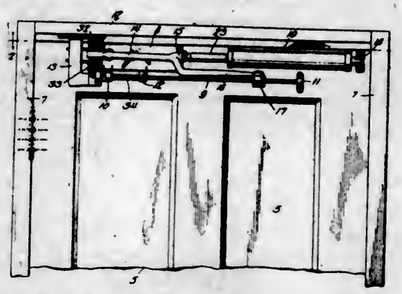
1. A hair waver or curler comprising a pair of end-connected members, said members being of semi-circular cross-sectional configuration with the flat surface portions of said members located opposite each other, and means connected with said members for forcing the same against each other into a clamping relation.

1,352,979. FISHLINE-SPREADER. MELVIN G. LAWRENCE, Revere, Mass. Filed May 20, 1919. Serial No. 298,378. 4 Claims. (Cl. 43—27.)



1. In a fish line spreader, the combination with a body having means by which it may be suspended and comprising two clamping members, of a plurality of spreader arms pivotally connected to one of said members to swing about parallel vertical axes when said body is suspended, said arms moving in the same plane and adapted to be swung from their operative spread relation into parallel folded relation, each arm having a portion received between the clamping members, and means connecting said clamping members by which they coöperate to clamp the arms between them and hold them in their spread relation.

1,352,980. DOOR-CONTROLLING APPARATUS. FRANZ O. LIMING, Chicago, Ill., assignor of one-half to John M. Liming, Fairfield, Iowa. Filed Mar. 27, 1919. Serial No. 285,587. 3 Claims. (Cl. 16—87.)



3. A door controlling means having in combinative relation, a cylinder pivoted to the door; a piston therein; a spring-urged arm pivoted to the door jamb and bifurcated at its free end by a short and a long member, said short member connected to said piston; a lost-motion device in said connection; a rod, substantially parallel with the upper end of the door and secured thereto; a lug, movable along said rod, by movement of said door, and pivotally connected to the longer member of said arm and a door-holding mechanism, operable by movement of said lug, along said rod, when the door has been opened to a predetermined degree.

1,352,981. TANK-CAR CONSTRUCTION. BURNS D. LOCKWOOD, Bellevue, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed June 25, 1919. Serial No. 306,736. 17 Claims. (Cl. 105—361.)



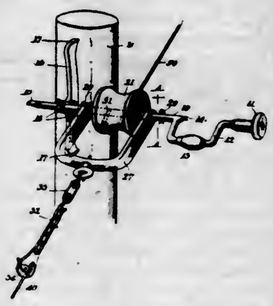
1. In a tank car, an underframe, a tank mounted on said underframe, and a cushioning device for said tank interposed between and connected with said tank and underframe, the ends of said device being adapted to engage the ends of said tank, the resilient portion of said device being arranged at substantially the longitudinal center line of the car.

1,352,982. SNAP-HOOK. JOSEF ALBERT LÜTHI, Lachen-Vonwil, Switzerland. Filed Aug. 13, 1919. Serial No. 317,309. 3 Claims. (Cl. 24—241.)



1. A snap hook comprising a casing substantially S-shaped in cross section and having longitudinal grooves in the opposite sides thereof, a resilient double armed lever pivotally mounted at each end of the casing, one arm of each of said levers constituting a hauling hook and the second arm of each lever adapted to engage in the grooves of the casing.

1,352,983. WIRE-STRETCHING TOOL. WALTER D. MANLY, Shackleford county, Tex. Filed Oct. 25, 1915. Serial No. 57,709. 4 Claims. (Cl. 254—162.)

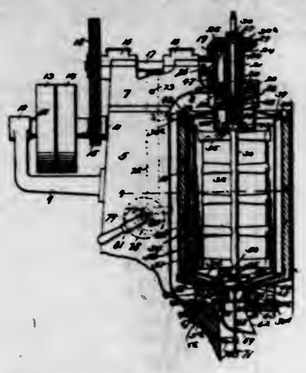


1. In a device of the class described, a shaft, a drum loosely mounted on said shaft and removable therefrom, said shaft adapted for winding wire about the portion from which the drum is removed, means on said portion of the shaft for holding the end of the wire, similar means on said drum, such means coöperating so that the drum may be locked against relative rotation by the insertion of the end of the wire to be wound, and a clevis straddling said drum and adapted to hold the device against the tension of the wire.

1,352,984. ICE-CREAM-MAKING MACHINE. FRANKLIN P. MILLER, East Orange, N. J. Filed June 17, 1918. Serial No. 240,479. 10 Claims. (Cl. 259—51.)

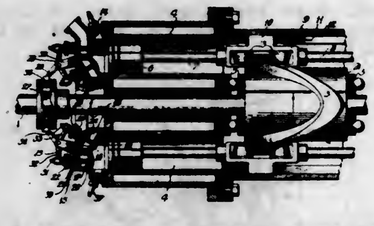
1. In an ice cream making machine, the combination with an inclosing tub, a cream containing can rotatably mounted in said tub and having a valve controlled outlet at its lower end formed by a depending collar extending through the bottom of the tub, joint forming devices between said collar and the lower end of the tub and including a wear sleeve removably surrounding the upper portion of the collar, supporting means for the lower end of the tub having an opening therethrough into which

the collar projects, a thrust ring on said support engaged by a part of the joint means between the collar and the



bottom of the tub, and an outlet spout associated with the lower portion of the collar.

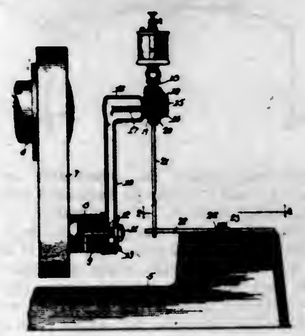
1,352,985. EXPLOSIVE-ENGINE. PETER W. MURPHY, Detroit, Mich., assignor to The Murphy Engineering Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 20, 1918. Serial No. 229,675. 3 Claims. (Cl. 123—58.)



1. In an internal combustion engine a rotatable main shaft, sets of opposed cylinders disposed symmetrically around the shaft, pistons for the cylinders, driving connections between the pistons and the shaft adapted to cause interrotation between the cylinders and the shaft, a head common to the cylinders of each set and having an intake passage adapted to connect with a fixed source of supply and an exhaust passage which opens outwardly away from said shaft, intake valves controlling the communication between the intake passage and the cylinder, exhaust valves controlling the communication between the cylinders and the exhaust passage, a single grooved valve operating member secured on the main shaft and rotatable therewith and a T-shaped lever pivotally supported adjacent each cylinder and operated by said valve operating member, said T-shaped lever having one of its arms engaging the intake valve and its other arm engaging the exhaust valve and its third arm engaging the groove in said valve operating member and being arranged to open the intake and exhaust valves alternately in synchronism with the piston stroke.

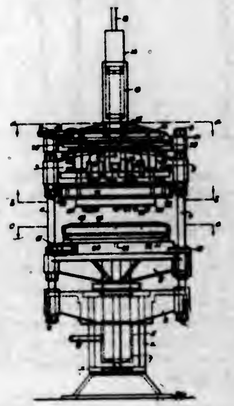
1,352,986. GRAVITY CENTER-OILER. WILLIAM W. NUGENT, Chicago, Ill. Filed Feb. 23, 1918. Serial No. 218,644. 9 Claims. (Cl. 184—66.)

7. The combination with engine structure comprising a shaft, crank arm, crank pin and a bed plate, of a tubular arm secured to said crank pin and extending to the axis of said shaft, an extension from said tubular arm along the axis of said shaft, an oil cup holder mounted on said extension, an oil cup mounted on said oil cup holder in upright position for gravity feed, a rod depending from said oil cup holder, means for removably securing said oil cup holder to said extension while permitting rotation of said extension relatively to said oil cup holder, said oil cup holder and said oil cup and said rod being rigidly connected together in a unitary structure deriving its sole support from said extension, and a slotted member fixed in stationary position on said bed plate for engaging opposite sides of the lower end of said rod while providing



a free and unobstructed space between the lower end of said rod and said bed plate along said member for preventing said rod from interfering with the removal of said oil cup holder from said extension when a cooling medium is to be introduced quickly through said tubular member to the interior of said crank pin.

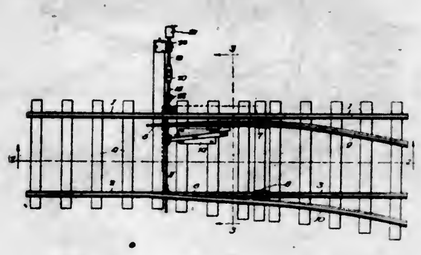
1,352,987. PRESS. CHARLES H. PEIRSON, Glenside, and CHARLES H. BUTLER, Philadelphia, Pa., assignors to E. F. Houghton & Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 13, 1919. Serial No. 344,606. 5 Claims. (Cl. 69—8.)



4. In a press, a fixed frame and a platen adapted to travel therein, a set of male dies carried by but not secured to said platen, and a set of female dies corresponding with said male dies secured to said frame, means for moving the platen toward the said female dies for forcing the male dies and articles to be compressed into their respective female dies, said platen being returned by gravity to its original position, and said male dies being frictionally retained in their respective female dies while an article is under compression therebetween, ejectors carried by each of the female dies for discharging said retained male dies therefrom together with the compressed articles, and means connected with said platen for actuating said ejectors, said actuating means comprising a carriage, pins carried thereby, means for adjusting said pins for engaging the ejector in any one of said dies,

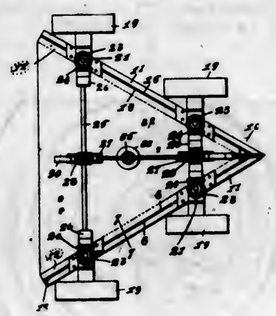
and means for moving said carriage to bring said engaging pins into operation simultaneously with each return movement of the platen.

1,352,988. RAILROAD-TRACK SWITCH. IGNATIUS G. POSPYHALA, Spring Valley, Ill. Filed Apr. 12, 1919. Serial No. 289,737. 6 Claims. (Cl. 246—347.)



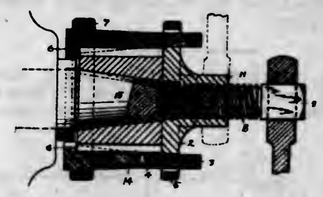
1. In track construction, the combination of a side track switch, mechanism for operating said switch, and means whereby said mechanism is automatically controlled by the rolling stock of a train traveling in a direction to either take the side track or continue on the main track, after a forward portion thereof has traveled on one track beyond the switch, so that an uncoupled rear portion of the rolling stock may continue by momentum and take the other track, said mechanism comprising a lever pivoted on the road bed to swing in a horizontal plane, means to connect one end of said lever with the points of the switch, and means disposed on the other end of said lever in position to be operated by said portion of the rolling stock which has passed the switch and thereby automatically throw the latter in time to accomplish said switching operation.

1,352,989. ROAD-MACHINE. EDWARD PRENDERGAST, St. Louis, Mo. Filed Apr. 1, 1919. Serial No. 286,628. 7 Claims. (Cl. 37—5.)



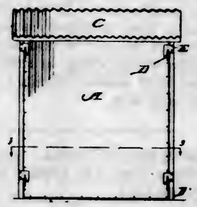
1. A road machine comprising a triangular shaped frame, each side being composed of a pair of channels spaced apart, a series of removable teeth secured between said channels, a shaft carried by the forward end of said frame, a shaft carried by the rear end of said frame, roller supports carried by the front and rear ends of said frame, a connection between said shafts and said roller supports, a connection between said shafts, and a means for raising and lowering said roller supports relative to said frame.

1,352,990. GEAR-REMOVER OR PINION-PULLER. CHRISTIAN REINKER, Lakewood, Ohio. Filed Dec. 27, 1918. Serial No. 268,541. 5 Claims. (Cl. 29—85.)



1. A gear remover, comprising a notched plate, a set of beveled grappling members having headed ends loosely engaged within the notches of said plate, a slip ring engaging the beveled portions of said grappling members, and a screw extending centrally through the plate.

1,352,991. DISMOUNTABLE HOUSE. AUGUSTO ROURE, Buenos Aires, Argentina. Filed Mar. 2, 1918. Serial No. 220,074. 2 Claims. (Cl. 189—1.)



1. A house of the class specified embodying front, rear and side walls having angular iron frames provided with a suitable sheathing thereover, latch plates secured to the frames in planes at right-angles to each other and comprising flat plates arranged vertically with vertical straight slots adjacent to one side edge of each plate to form a single tooth having a flaring or inclined surface at the mouth of the slots, the teeth of the interlocking latch plates being in planes at right-angles to each other and located beyond the adjacent edge portions of the frames to which the coöperating latch plates are secured, and a roof covering mounted over the walls.

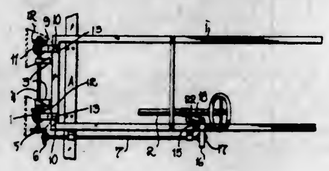
1,352,992. OBSERVATION-STATION. WILLIAM GUY RUGGLES, San Francisco, Calif. Filed Sept. 14, 1916. Serial No. 120,173. 19 Claims. (Cl. 114—16.7.)



1. In a device of the class described, the combination of an anchorage, a floating body of cylindrical form adapted to float in an upright position, a flexible con-

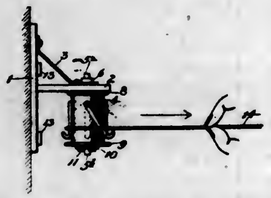
nection between the floating body and anchorage, said body provided with a fin construction rigidly connected thereto and extending in a plane containing the axis of the cylindrical body for minimizing rotary movement of the floating body.

1,352,993. DIRIGIBLE LIGHT. LINUS I. RYDER and MARY Z. RYDER, Briarcliff Manor, N. Y. Filed Oct. 31, 1919. Serial No. 334,881. 1 Claim. (Cl. 240—62.)



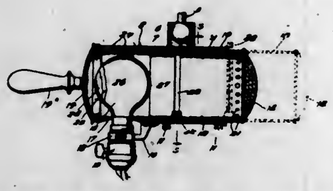
A dirigible light, and means for turning the same, including a chassis frame provided with a channel in the side, a pair of journals mounted within said channel, a shaft extending longitudinally of said frame and mounted in said journals, a yoke mounted on top of said channel, a pinion mounted on the end of said shaft, a rack slidable through said yoke at an angle to said shaft, engageable with said pinion, and means mounted upon the steering post for moving said rack.

1,352,994. CLOTHESLINE-REEL. JACOB SARDO, Johnstown, Pa. Filed Feb. 14, 1920. Serial No. 358,694. 1 Claim. (Cl. 68—3.)



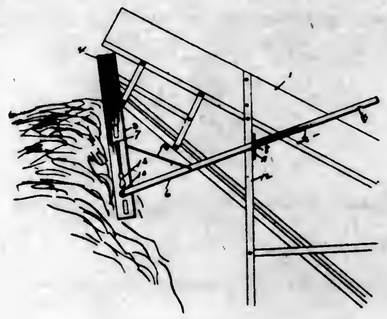
In a device of the character described, the combination with a vertical rotatable drum, of a plurality of hooks pivoted at their upper ends to the periphery of said drum and adapted to normally extend downwardly by gravity from their respective pivots in parallelism with each other, and having their lower ends free and turned outwardly.

1,352,995. DENTAL LAMP. NATHAN M. STONE, Chicago, Ill. Filed Oct. 23, 1919. Serial No. 332,685. 3 Claims. (Cl. 240—1.)



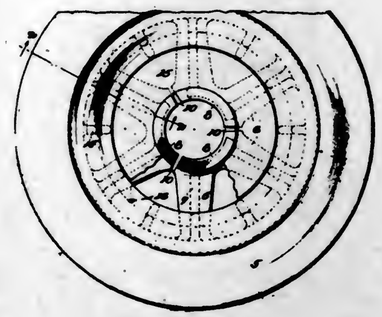
3. In a lamp of the character described, a telescopic casing having a condensing lens at one end, and closed at the other end, an incandescent electric light bulb in said closed end of the casing having a coating of mercury on its surface and an outside coating of opaque material; there being a clear spot on the bulb facing the lens, an electric light socket supporting said bulb and a bracket secured to the casing and supporting the socket.

1,352,996. ADJUSTABLE PLATFORM FOR HAY-LOADERS. JOHN G. STURTZE, Lowville, N. Y. Filed Sept. 4, 1919. Serial No. 321,571. 1 Claim. (Cl. 193—14.)



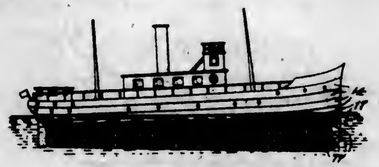
The combination with a hay loader of a platform pivotally connected at its upper end with the delivery end of said loader and including end bars, a pulley carried by one of said end bars and the other of said end bars having an opening, struts pivotally connected at one end thereof to said end bars and provided with notches on their under edges, keepers through which said struts are slidably projected and engageable with any one of said notches, cords secured at one end thereof to said struts intermediate the pivotal end thereof and said keepers, the cord secured to the strut adjacent the end bar having the opening being passed through said opening, the other of said cords attached to the other strut being passed over the pulley carried by the second end bar and thence extended through said opening of the first end bar, and a handle secured to the ends of said cords projecting through said openings.

1,352,997. DREDGE-TUMBLER. MARK LAFORE SUMMERS, Hammonton, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Oct. 6, 1919. Serial No. 328,771. 6 Claims. (Cl. 64—17.)



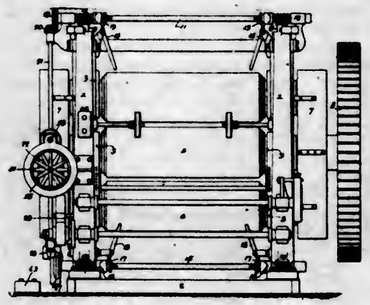
1. A dredge tumbler embodying a flanged member cast with hub-forming webs, collars secured upon the hub ends and overhangs on the flanged member coöperating with the collars to close the ends of the tumbler and having webs connecting them with the hub-forming webs.

1,352,998. CONSTRUCTION OF SHIPS. JAMES M. THOMPSON, Buffalo, N. Y. Filed July 3, 1919. Serial No. 308,563. 4 Claims. (Cl. 114—80.)



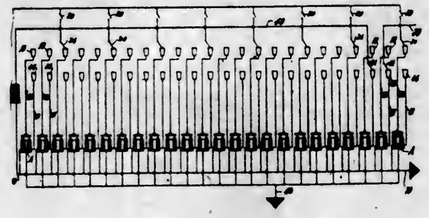
1. A vessel having its hull provided with external corrugations extending transversely of its bottom and sides.

1,352,999. MEANS FOR ADJUSTING ROLLS. JOSEPH W. THROPP, Trenton, N. J. Filed Apr. 27, 1920. Serial No. 377,017. 8 Claims. (Cl. 18—2.)



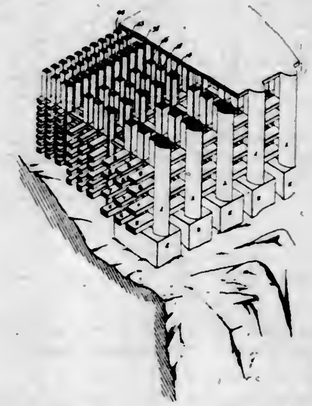
1. The combination in a calendering machine, of a series of rolls, independent means for adjusting the upper roll and the lower roll; a gear box; a power driven shaft in the box and means for independently driving the adjusting means for the upper and lower rolls from said shaft; a reversing motor driving the shaft; and switch mechanism controlling the motor.

1,353,000. APPARATUS FOR ELECTRICAL TRANSMISSION OF INTELLIGENCE BY WIRE. JAMES A. TILLINGHAST, Providence, R. I. Filed Sept. 19, 1918. Serial No. 254,812. 17 Claims. (Cl. 178—53.)



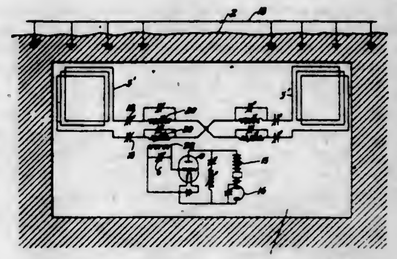
1. Electrical apparatus for transmitting intelligence, comprising a wire, distributing mechanism including a number of sets of instruments, each set including a transmitting instrument and a receiving instrument, a plurality of selective partial circuits, and mechanism for selecting from time to time and including in the transmitting circuit so as to be used by all the instruments in common that unit of the selective partial circuits which will enable the transmitting and receiving instruments of each set to operate unaffected by the operation of those of any other set.

1,353,001. BREAKWATER OR THE LIKE. GORGONIO URIARTE, Madrid, Spain. Filed May 18, 1917. Serial No. 169,595. 18 Claims. (Cl. 61—4.)



1. The combination in a break-water of a supporting frame; and a series of substantially horizontal perforated diaphragms carried thereby so as to present their edges to the waves.

1,353,002. APPARATUS FOR PREVENTING STATIC INTERFERENCE IN RADIOSIGNALING. ROY A. WEAGANT, New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Dec. 12, 1917. Serial No. 206,724. 4 Claims. (Cl. 250—20.)



1. A receiving station for radio signals, comprising a collector disposed beneath the surface of the ground, in combination with a conducting screen disposed at the surface of the ground over the collector.

1,353,003. BITUMINOUS PITCH AND SULFUR COMPOSITION AND METHOD OF MAKING THE SAME. JOSEPH JOHNSTON WHITE, Jr., Erie, Pa., assignor of one-half to H. G. Green, Columbus, Ohio. Filed Apr. 26, 1919. Serial No. 292,925. 4 Claims. (Cl. 106—31.5.)

1. A bituminous pitch and sulfur composition in which the major portion of the ingredients are not chemically combined.

1,353,004. FILM-REEL. JOSEPH WILHELM and CHARLES A. KAYS, McKees Rocks, Pa. Filed Aug. 14, 1919. Serial No. 317,411. 6 Claims. (Cl. 242—74.)

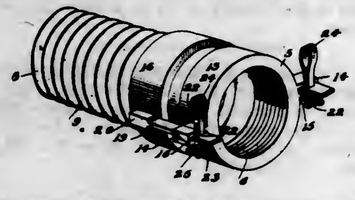
1. A hub for film reels comprising a cylindrical body portion, a resilient clamping tongue extending transversely of said body portion, said tongue having its inner end secured to the inner face of the body portion and further

having a part thereof arranged within the body portion and the remaining part thereof positioned against the



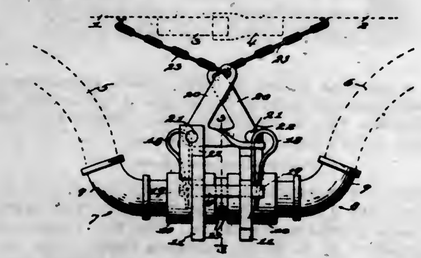
periphery of the body portion, and a removable clamping member positioned under said clamping tongue.

1,353,005. PIPE-COUPLING. JOHN WILLIAMS, Clinton, Iowa. Filed Jan. 21, 1920. Serial No. 352,978. 4 Claims. (Cl. 285—180.)



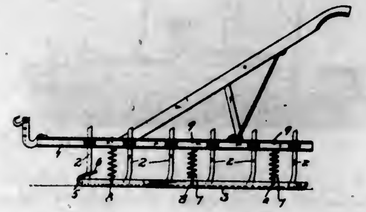
4. A coupling of the class specified, comprising coupling members respectively having separably engaging oppositely disposed coupling arms and sockets, and resilient devices adjustably inserted through the arms to hold the latter in association with the sockets.

1,353,006. TRAIN-PIPE COUPLING. JOHN WILLIAMS, Clinton, Iowa. Filed Dec. 15, 1917, Serial No. 207,351. Renewed Mar. 6, 1920. Serial No. 363,664. 16 Claims. (Cl. 285—57.)



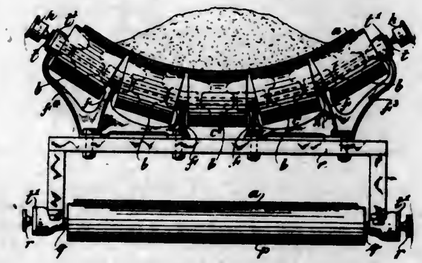
1. In a coupling for flexible pipe connections, the combination of a pair of tubular coupling heads each provided with an internal annular seat, a pair of gaskets fitted in said seats with their outer edge faces in abutting relation, locking means for the heads consisting of reversely disposed extensions engaging the opposing heads at the extremities of the latter, spring means vertically disposed with relation to the outer side of each head and removably engaging with the extension of the opposing head, means for drawing the heads together and with which said spring means also engage, and means for automatically withdrawing the said spring means for association with their respective heads.

1,353,007. RUNNER ATTACHMENT FOR HARROWS. LEONARD WILLETT, Paducah, Ky. Filed Feb. 3, 1920. Serial No. 356,017. 2 Claims. (Cl. 55—3.)



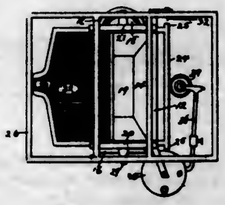
1. A sled attachment for harrows or the like, comprising a channel bar provided at one end with a forked flange adapted to straddle the front tooth of the harrow, and means for yieldingly holding said sled attachment beneath the lower ends of the harrow teeth, or in reverse position upon the tops of said teeth.

1,353,008. BELT CONVEYER. CHARLES S. WRAY, New York, N. Y. Filed May 7, 1919. Serial No. 295,329. 7 Claims. (Cl. 193—27.)



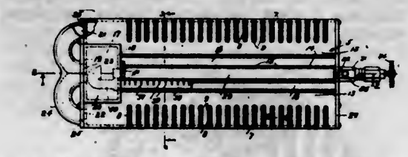
1. In a belt conveyer, idler rolls, means to support each roll, said means being independent of the supporting means for each other roll, a thrust bearing, and means to transmit the thrust of a plurality of said rolls to said thrust bearing.

1,353,009. MEANS FOR REPAIRING RADIATORS AND THE LIKE. WILSON M. WRIGHT, CLARENCE TEEPLES, and JAMES J. LAMB, Jefferson, Iowa, assignors to New Way Machine Company, Jefferson, Iowa, a Corporation of Iowa. Filed Sept. 5, 1919. Serial No. 321,899. 11 Claims. (Cl. 113—59.)



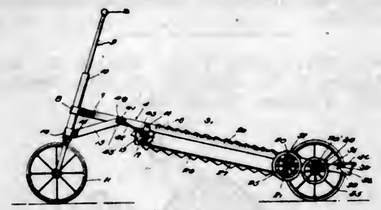
1. Means for repairing radiators and the like, comprising a suitable support, a carrier for a work object articulating on said support, adjusting means connecting said carrier and support, and a tray mounted for transverse reciprocation between said support and carrier, which tray includes a pan and an open frame adapted to register selectively with said support.

1,353,010. HYDROCARBON-BURNER. MATTHIAS S. YEAGER, Los Angeles, Calif., assignor to Liberty Burner Co., a Corporation of California. Filed Sept. 11, 1918. Serial No. 253,506. 4 Claims. (Cl. 158—61.)



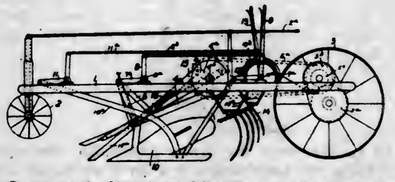
1. A gas generator construction, comprising a hollow burner head, the walls of which are provided with burner slots having gas inlet openings leading thereto, the said burner head being further provided with a gas mixing chamber having a gas outlet leading therefrom, a gas manifold secured to said burner head having passageways communicating and registering with the gas outlet opening of the mixing chamber and the gas inlet openings leading to the burner head, a gas generator mounted on said burner head adapted to deliver generated gases to the mixing chamber, means to regulate the volume of gas issuing from said generator, a gas pilot mounted on said burner head, said pilot being provided with gas flame slots adapted to direct the flames against the said generator, one end of said pilot projecting into the gas mixing chamber and having its mouth disposed in front of said gas generator outlet orifice, and means to bring said outlet mouth into or out of register with the outlet orifice of the generator.

1,353,011. TREAD-CYCLE. WILLIAM R. YOUNG, Medford, Oreg. Filed Apr. 12, 1919. Serial No. 289,578. 10 Claims. (Cl. 208—38.)



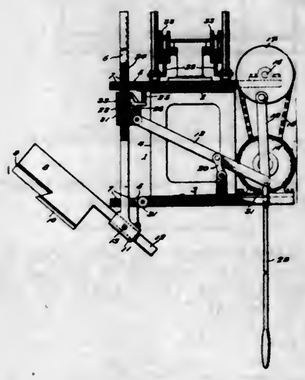
1. A vehicle of the class described including a wheeled frame, relatively stationary and movable journal boxes mounted on the frame, transverse shafts journaled in said boxes, an endless tread belt extending around said shafts, means for transmitting motion from the tread belt to the wheels of the vehicle, and means operatively connected with the movable journal boxes for tilting the latter to regulate the tension of the tread belt.

1,353,012. MACHINE FOR CULTIVATING UNBROKEN GROUND. GUSTAV AASETH, Christiania, Norway. Filed Mar. 13, 1919. Serial No. 282,455. 2 Claims. (Cl. 97—25.)



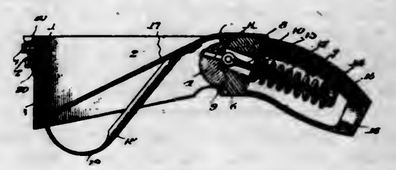
1. In an agricultural machine for breaking new ground the combination of a frame; a plurality of digging rods carried by said frame; crank arms operating said digging rods whereby said digging rods are given a digging movement; means operated by the forward travel of the machine for operating said crank arms; links for supporting the forward end of the digging rods; a frame for carrying said links; means for adjusting said frame to vary the digging operation of the digging rods; means located to the rear of said digging rods for turning the turf after the ground has been dug; and means mounted on said frame to the rear of said turf turning means obliquely to the longitudinal axis of the frame for pulverizing the soil prepared by the digging rods and the last named means.

1,353,013. BEEF-SPLITTING MACHINE. DANIEL L. APPELBERRY, Hammond, Ind. Filed Oct. 21, 1918, Serial No. 259,066. Renewed May 29, 1920. Serial No. 385,386. 7 Claims. (Cl. 17—25.)



1. A beef-splitting machine, comprising a frame, an operating bar slidably mounted therein, a cleaver carried by the bar, means for raising the bar, and a trip carried by the frame to release the raising means.

1,353,014. TROWEL. EARNEST J. ASHBY, Henderson, Ky. Filed Mar. 19, 1919. Serial No. 283,560. 5 Claims. (Cl. 72—138.)

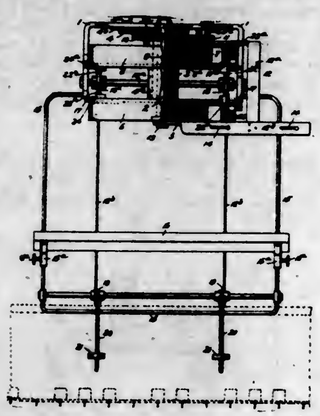


1. A pointing trowel having a hollow magazine, a handle pivotally supported thereon, a straight striking arm carried by the handle and movable through the magazine, and a curved striking arm carried by the straight arm.

1,353,015. LEAF-TURNING DEVICE. ERNST BEHR, Saratoga Springs, N. Y. Filed Aug. 6, 1919. Serial No. 315,706. 4 Claims. (Cl. 84—487.)

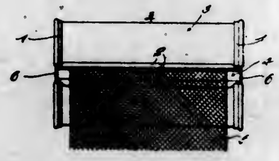
1. The combination in a leaf-turner, of a spring-actuated member, means for containing said spring-actuated member, means provided for effecting the movement of said spring-actuated member, including a stopping slide on said spring-containing means, adapted to temporarily retain the latter against movement, a plunger which serves to actuate the latch, a lever adapted to depress said plunger, an additional spring-pressed lever adapted to hold the plunger depressed until released from its depressing lever, said plunger, simultaneously with the

engagement therewith of said depressing lever, acting upon said sliding stop to allow the turning of said spring-



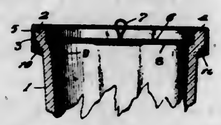
containing means and to force the leaf-turner out of engagement with said additional lever.

1,353,016. WIRE-SCREEN HOLDING AND DISPENSING RECEPTACLE. THOMAS E. BERNARD, Lakeview, Oreg. Filed May 17, 1920. Serial No. 381,963. 1 Claim. (Cl. 211—18.)



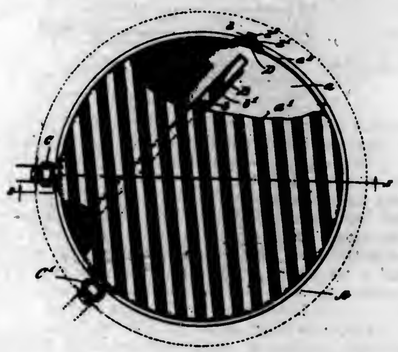
A drum formed of sheet metal and having a longitudinally extending open ended slot, and rings positioned about the end portions of the drum and extending across the end portions of the slot, the end portions of the drum being bent about the rings to hold the rings in place and the rings reinforcing the end portions of the drum and providing means for closing the ends of the slot and guiding material passing out of the slot.

1,353,017. RECEPTACLE - CLOSURE. DAVID BLOOM, Berkeley, Calif. Filed Aug. 28, 1919. Serial No. 320,466. 7 Claims. (Cl. 215—81.)



5. A receptacle closure including a sheet of material, a disk having one of its entire faces secured to said sheet of material, said sheet extending beyond the edge of such disk and in air-tight contact with the upper edge of the end of the receptacle to be closed, the disk terminating at a point short of the inner circumference of the upper edge of such receptacle, the receptacle being provided with an annular shoulder extending around its inner face, the disk being adapted to seat upon such shoulder subsequent to the destruction of its associated sheet of material, whereby to form a secondary closure.

1,353,018. WATER-COOLER FOR REFRIGERATORS. CHARLES H. BOECK, Jackson, Mich., assignor to White Frost Refrigerator Company, Jackson, Mich., a Corporation of Michigan. Original application filed Sept. 28, 1917, Serial No. 193,752. Divided and this application filed Aug. 6, 1918. Serial No. 248,514. 6 Claims. (Cl. 62—148.)



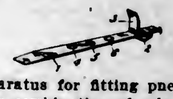
1. A water cooler adapted for use as a false bottom in the ice chamber of a refrigerating apparatus for supporting blocks of ice thereon, said cooler comprising a shallow receptacle having inlet and outlet passages through its outer wall and having a partition therein extending across the receptacle at one side of its center from between said inlet and outlet to the opposite side thereof so as to form a large and a small compartment separated by said partition, a water passage being provided at the end of said partition remote from said inlet and outlet for the circulation of water around the partition and through both compartments.

1,353,019. PULP-CANAL FILE. WILLIAM W. BOLLS, Washington, D. C. Filed Dec. 23, 1919. Serial No. 346,910. 2 Claims. (Cl. 32—10.)



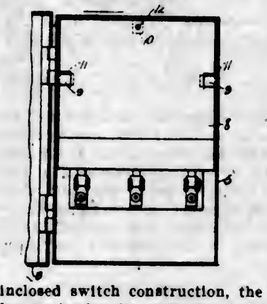
1. A pulp canal file for shaping, enlarging and cleaning the canal scrapers, which are relatively short and closely related and said scrapers being of different formations and having their cutting edges variously arranged in irregular relation and at varying angles to the longitudinal axis of the file and adapted to cut both during longitudinal reciprocation as well as transverse rotation of the file.

1,353,020. APPARATUS FOR MOUNTING OR REMOVING PNEUMATIC TIRES. JOHAN WESSEL BRAND, The Hague, Netherlands. Filed Nov. 21, 1917. Serial No. 203,176. 2 Claims. (Cl. 157—6.)



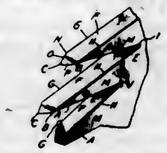
1. In an apparatus for fitting pneumatic tires on vehicle wheels, the combination of a lever having an annular end portion adapted to be passed around the wheel hub, a transversely disposed sliding member on said lever provided with hooks for engaging the rim edge of the wheel, a roller near the end of the sliding member adapted to be pressed against the bead of the tire, and a disk rotatable about the lever and adapted to be pressed into the depression of the tire above the bead, permitting the mounting of both beads simultaneously on the wheel.

1,353,021. INCLOSED-SWITCH CONSTRUCTION. HARRY M. BROADWELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Dec. 13, 1919. Serial No. 344,722. 4 Claims. (Cl. 200—166.)



1. In an inclosed switch construction, the combination of a box, a lug projecting inwardly from the end thereof, lugs projecting inwardly from the opposite sides thereof, and a shield having tongues on the underside adapted to slidably engage the lugs at the sides of the box, and means for securing the end of the shield to the end lug.

1,353,022. GIN OR LINTER SAW TEETH. WARNER H. CAMP and ROBERT H. BUTTERS, Atlanta, Ga., assignors to The Butters-Camp Mfg. Co., Atlanta, Ga., a Corporation of Georgia. Filed Dec. 3, 1919. Serial No. 342,287. 2 Claims. (Cl. 13—14.)



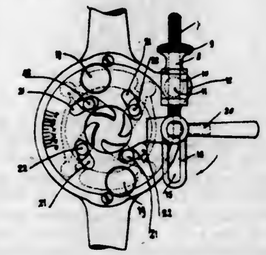
1. A gin or linter saw whose teeth have each a base and an upper surface forming a throat with the base of the next preceding tooth, said base terminating in a point and said upper surface having a central apex which terminates at a point lying within the imaginary circumference of the saw and above the terminal point of said base.

1,353,023. DIRECTION - INDICATOR FOR AUTOMOBILES. BERT CARLISLE, Santa Ana, Calif. Filed June 24, 1919. Serial No. 306,431. 1 Claim. (Cl. 116—54.)



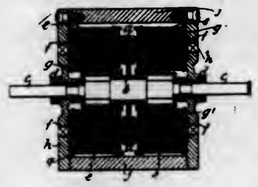
A direction indicator for automobiles, including a housing adapted to contain a semaphore arm pivotally mounted in the base thereof and having a weight for overbalancing the arm so that it will remain in a vertical position within the casing and completely out of sight from the front and rear; a pulley within the housing, positioned above and rearwardly of the arm pivot; and a cord extending around the weight and over said pulley whereby the arm may be swung outwardly into various signaling positions.

1,353,024. SCREWING APPARATUS. ARMAND CARETTE, Paris, France. Filed June 26, 1919. Serial No. 306,790. 4 Claims. (Cl. 10—122.)



1. In a screwing apparatus comprising screwing dies in the interior of a casing, between plates located on opposite sides of said casing, in which each of said dies is terminated by a cylindrical head engaged in a recess formed for this purpose in the interior of said casing, in which it is adapted to oscillate, and comprising a stud on one of its faces; and in which one of the closing plates comprises as many grooves as there are dies, the said stud of each die being engaged in one of said grooves; the whole being so constructed and arranged that the rotation of said plate causes said dies to move away from or toward one another; an actuating mechanism comprising on one hand a screw so guided as not to be capable of rotating, pivoted on an axle pin carried by the plate, and on the other hand a nut rotatable in a support that is pivotally mounted on said casing, both parts being adapted to allow of effecting a gradual rotating of the grooved plate.

1,353,025. ELECTRICAL SIGNALING APPARATUS. CHRISTOPHER BRUNSWICK CHICKEN and JOSEPH HARRY THAIN, Newcastle-upon-Tyne, England, assignors to Sir W. G. Armstrong Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Filed Apr. 15, 1919. Serial No. 290,177. 2 Claims. (Cl. 172—239.)



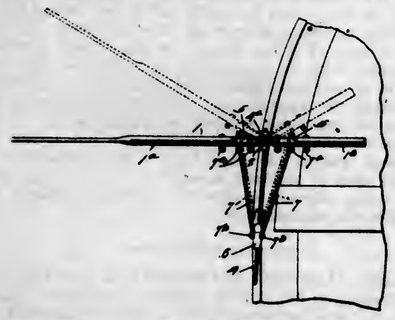
1. In an electrical motor, a set of armatures equally spaced around an axis, and two sets of electro-magnets, each set being equally spaced around the same axis, the number in each set being even and the number in the set of armatures being different from and not a multiple of the number in each of the two sets of electro-magnets, the coils of each pair of magnets being connected in series with one another and in parallel with the coils diametrically opposite to them.

1,353,026. HOOK. PETER CLARE, Valley, Wash., assignor of one-half to George W. Wilson, Valley, Wash. Filed June 8, 1918. Serial No. 238,906. 1 Claim. (Cl. 24—241.)



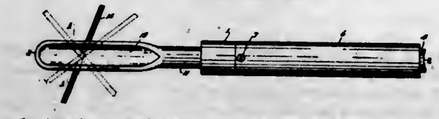
A hook of the class described comprising a shank having a hook at one end and spaced recesses in its front face, said hook having a wedge-shaped end, a U-shaped clip embracing said shank, a latch member bolted to the free end of said clip and having its end bent outwardly and provided with a V-shaped recess to receive the wedge-shaped end of the hook, a spring pressed pin carried by said latch member and adapted to engage one or the other of the recesses in the shank for holding the latch member in open or closed position and a hand engaging ring on the outer ends of said pin.

1,353,027. BOW-FACING OAR. WILLIAM HENRY CLAY, Eustis, Fla. Filed Dec. 27, 1919. Serial No. 347,744. 2 Claims. (Cl. 9—25.)



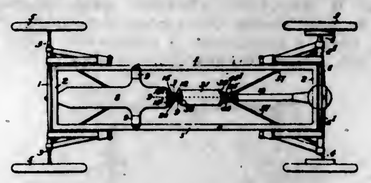
1. The combination of an oar including a blade and a handle member and means providing for a freely movable connection between said handle-member and blade, and a boat, comprising a rail secured to the gunwale of the boat, means effecting a sliding connection between said handle and blade and said rail, and a pivoting member having a lower end ring terminal slidably and rotatably positioned upon said rail.

1,353,028. ELECTRODE-HOLDER. WILLIAM EDWARD CLEMENTS, Oroville, Calif., assignor of one-half to Abram C. Penner, Oroville, Calif. Filed Mar. 9, 1920. Serial No. 364,560. 4 Claims. (Cl. 219—8.)



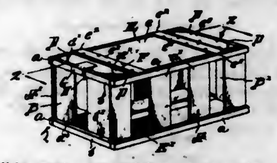
1. An electrode holder, comprising a fork having a pair of jaws projecting longitudinally of the fork, one of said jaws curved transversely and adapted to clamp an electrode against the other jaw, thereby providing a three-point contact between the fork and the electrode.

1,353,029. SHOCK-ABSORBING MECHANISM FOR MOTOR-VEHICLES. STEPHEN LEONARD CHAUNCEY COLEMAN, Fredericton, New Brunswick, Canada. Original application filed Sept. 13, 1916, Serial No. 119,934. Divided and this application filed Mar. 21, 1918. Serial No. 223,818. 31 Claims. (Cl. 180—73.)



1. In a motor vehicle, the combination of a frame, axles therefor, a motor on the frame, a longitudinally adjustable drive connection between the motor and one of the axles, a casing for said drive connection, said casing being connected with the frame and with the driven axle and having intermediate telescoping portions, and cushioning means associated with said casing yieldably resisting movement of said portions of the casing relatively to each other.

1,353,030. COLLAPSIBLE CRATE. JOHN J. DAHLSTROM, Amite, La. Filed May 13, 1918, Serial No. 234,204. Renewed Feb. 7, 1920. Serial No. 357,015. 1 Claim. (Cl. 217—48.)



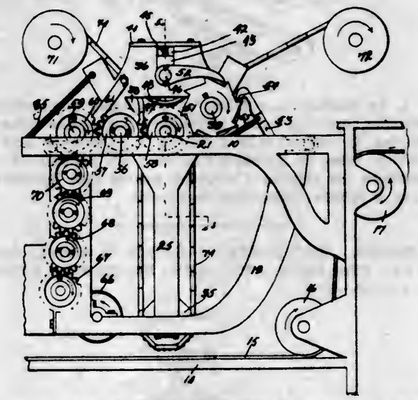
A collapsible crate comprising rectangular side frames and rectangular end frames, with a reinforcing strip at the top and bottom of each of said frames, with hinges in the form of loops, each having its central portion provided with an inwardly projecting lug, connecting the adjacent ends of said reinforcing strips, a bottom piece adapted to slip into the interior of the crate and to have its four corners rest upon the lower hinges, a cover provided with reinforcing strips extending across the same and projecting beyond the edges thereof, and adapted to rest upon the reinforcing strips at the sides of the crate, two adjacent corners of said cover being cut away to pass clear of the corresponding hinges of the crate, and a locking slat adapted to fit over the cut-away end of said cover and to engage beneath the adjacent hinges and to be normally locked in place by the lugs on said hinges, substantially as described.

1,353,031. VACUUM-BULB FOR SIGNALING APPARATUS. CHARLES S. DEMAREST, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 26, 1918. Serial No. 246,910. 6 Claims. (Cl. 179—170.)



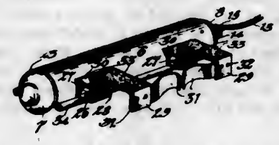
1. A transmission line, a bridge across said line adapted to transmit current of a frequency suitable for transmission over one section of said line, a vacuum bulb apparatus associated with said bridge and adapted to translate said first mentioned current into currents having frequencies which would be harmonics of the frequencies of said first mentioned current, and means to select one of said last mentioned currents and to impress said current on another section of said line.

1,353,032. PRINTING DEVICE. A'QUILLA DUENSING, Altoona, Iowa. Filed May 8, 1919. Serial No. 295,731. 10 Claims. (Cl. 101—54.)



1. In a machine of the class described; a fixed frame; a movable frame thereon; means for successively bringing printing devices to printing position with relation to said movable frame; and means for operating said frame for causing a printing operation from said printing devices while said printing devices are in movement; said means including mechanism for raising said movable frame and swinging it in one direction, and then lowering the movable frame and swinging it in another direction.

1,353,033. PIANO-LAMP. CLESURNE EBERHART, Jr., Buffalo, N. Y., assignor to Play-O-Lite Company, Incorporated, Buffalo, N. Y., a Corporation of New York. Filed Jan. 23, 1917. Serial No. 144,009. 3 Claims. (Cl. 240—4.)



3. A piano lamp having a bracket which includes an upright relatively stiff front jaw adapted to engage with the outer side of a piano front, an upper horizontal arm adapted to engage with the upper edge of the piano front and projecting rearwardly from the upper end of said front jaw, a flexible rear jaw arranged at the rear end of said upper arm and below the top of the latter and adapted to engage with the inner side of the piano front, and a lower horizontal arm projecting forwardly from the lower end of said front jaw and adapted to carry the piano lamp at its front end, said flexible jaw being constructed of a leaf spring which has its sides arranged vertically and which is arranged with its length horizontally and transversely relatively to said upper horizontal arm.

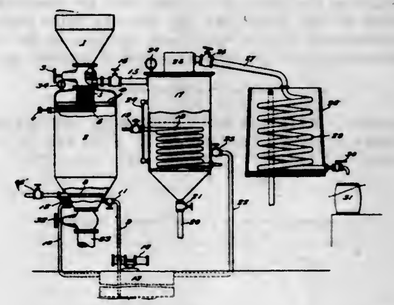
1,353,034. UMBRELLA. RAPHAEL ESTURO, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,457. 3 Claims. (Cl. 135—46.)

8. In an umbrella, a handle provided with a socket, a staff, a sleeve member carried by said staff and immovably secured thereto, and a resilient member carried by the socket and engaging the staff and the free edge of



the sleeve carried thereby to retain said staff within the socket.

1,353,035. PROCESS OF EXTRACTION. TALIAFERRO J. FAIRLEY, New Orleans, La., assignor to Southern Pine Products Co., Inc., a Corporation of Louisiana. Filed July 14, 1917. Serial No. 180,506. 3 Claims. (Cl. 203—6.)



1. A process of extraction which consists in placing the material to be extracted in a closed vessel filled with water at approximately 180 degrees F. so as to leave no space in the vessel unfilled, and forcing live steam into the vessel to cause an increase of pressure therein from approximately 50 to 70 pounds to the square inch.

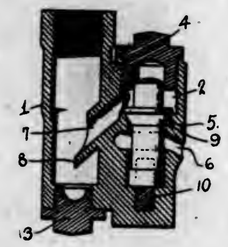
1,353,036. BOW-GUIDE. HENRY F. FISHER, Los Angeles, Calif. Filed Feb. 25, 1920. Serial No. 361,349. 7 Claims. (Cl. 84—283.)



4. A bow guide for violins including a pair of adjustable brackets, the outer ends of said brackets being formed to engage the side edges of the top of the violin, arms comprising strips upstanding from the inner end of said brackets, with the width of said strips extending parallel to the longitudinal axis of the violin, means for en-

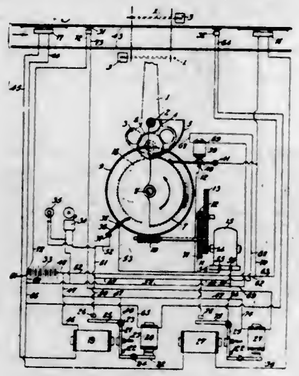
gaging said arms to draw their outer ends firmly into engagement with the side edges of the top of the violin, one of said arms being twisted at right angles to present the width thereof for contact with the bow.

1,353,037. VALVE. FRANK FRANKE, Cincinnati, Ohio. Filed Apr. 15, 1919. Serial No. 290,171. 2 Claims. (Cl. 121—134.)



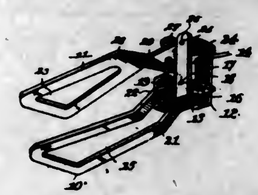
1. In a valve, a casing having a steam chamber adapted at one end for connection with an engine cylinder and also having a valve chamber in which latter is an eduction port and a valve seat, and also having a port intermediate the steam chamber and the valve chamber at the opposite side of the valve seat with respect to the eduction port, and further having in the steam chamber a conduit extending laterally inward from the wall of said chamber and forming a continuation of said port, for lessening the liability of dirt finding its way into the valve chamber, in combination with a valve body movable in the valve chamber and having a portion opposed to the seat thereof.

1,353,038. RAILWAY-GATE-CONTROL MECHANISM. FRANK A. GRANT, Cortland, N. Y. Filed Feb. 27, 1919. Serial No. 279,559. 8 Claims. (Cl. 246—127.)



1. In an apparatus of the class described, a gate, a motor, mechanical reversing mechanism comprising a worm driven by said motor, a worm wheel engaging said worm, a plurality of gear segments arranged to turn with said worm wheel, a gear segment on said gate arranged to mesh for a part of the revolution with one of the above mentioned worm wheel gear segments to move the gate to a lowered position, another gear segment on said gate and an idler gear meshing therewith, said idler gear being arranged to mesh with the second worm wheel gear segment for a part of the revolution of the worm wheel to move the gate to a raised position.

1,353,039. ANATOMICAL BRIDGE-ARTICULATOR. LEON GREENFIELD, New York, N. Y. Filed Mar. 12, 1920. Serial No. 365,262. 7 Claims. (Cl. 32—1.)



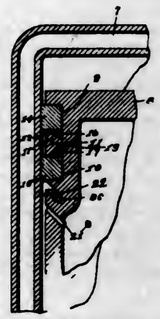
1. An anatomical articulator embodying a plurality of movable members, means including a spring-like extension carried by one of said members, a portion of said extension being in yielding contact with another of said members for yieldingly allowing two of said members to have a relative compound movement.

1,353,040. WATCH-STEM. GEORGE D. GREIG, Peoria, Ill. Filed Jan. 3, 1919. Serial No. 269,435. 4 Claims. (Cl. 58—63.)



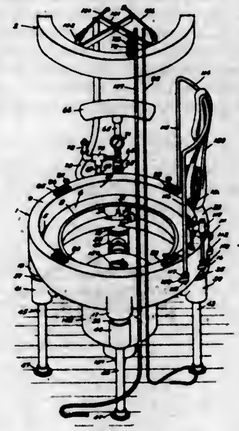
1. In a watch, the combination with a sleeve having a square bore, of a stem slidably mounted in the bore, and an adjustable head carried by the stem and shaped to conform to the configuration of the bore of the sleeve.

1,353,041. PISTON. FREDERICK HACHMANN, St. Louis, Mo., assignor of one-half to Herman Stifel, St. Louis, Mo., one-sixteenth to Philip E. Moody and one-sixteenth to Chauncey R. Watson, Detroit, Mich., one-eighth to David M. Hutchinson, Ferguson, Mo., and one-sixteenth to H. A. Wright, Detroit, Mich. Filed Dec. 23, 1918. Serial No. 268,016. 1 Claim. (Cl. 74—109.)



In combination with a piston having a pair of parallel piston ring grooves near its upper end, said piston ring grooves having their adjacent ends undercut, of a split ring triangular in cross section sprung into the undercut portion of each groove, a split ring rectangular in cross section sprung in each groove adjacent the triangular ring, said last mentioned ring being larger in circumference than the triangular ring and the circumference of the piston, said triangular ring adapted to force the rectangular ring away from the undercut surface of the piston ring groove.

1,353,042. RETREAD-VULCANIZER. EDWARD HARRIS, Los Angeles, Calif. Filed Feb. 8, 1919. Serial No. 275,896. 7 Claims. (Cl. 18—18.)



5. In a vulcanizer, an annular stationary mold section mounted horizontally and having a steam chamber; a pipe construction extending outwardly and upwardly from the stationary mold section; and an inside core mold fixed upon the upper end of the pipe.

1,353,043. TOOL-HANDLE. JOHN E. HULTBERG, Warren, Pa. Filed Dec. 12, 1918. Serial No. 266,469. Renewed Apr. 10, 1920. Serial No. 373,016. 2 Claims. (Cl. 279—96.)



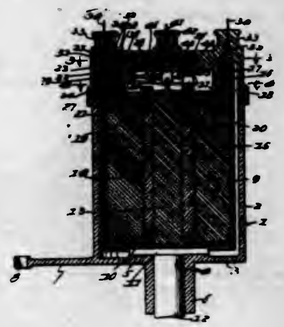
1. In a bit driver a handle having a bit receiving socket at its front end, a bit-ejecting rod slidable in said handle, said rod being rearwardly movable out of contact with the bit, means for preventing rotation of said rod and for limiting the rearward movement thereof, and a cap threaded on the rear end of said rod for contact with the rear end of said handle, to normally hold the rod at its limit of rearward movement and out of contact with the bit.

1,353,044. BALL RETAINER AND SEPARATOR FOR THRUST-BEARINGS. HENRY B. KEIPER, Lancaster, Pa. Filed Sept. 15, 1919. Serial No. 323,677. 6 Claims. (Cl. 64—58.)



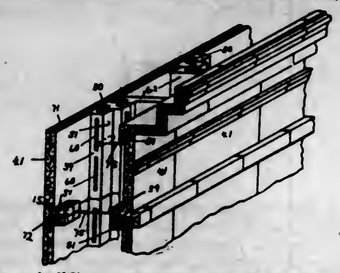
4. A thrust bearing comprising disk-like plates with balls therebetween projecting in opposite directions through oppositely disposed openings in said plates, and lubricating material filling the space between said plates around said openings and encircling the balls.

1,353,045. IGNITION SYSTEM FOR GAS-ENGINES. JAMES KELLY, Eagle Pass, Tex., assignor of one-half to George Honetschlager, Stanford, Mont. Filed Feb. 9, 1918. Serial No. 216,249. 1 Claim. (Cl. 123—148.)



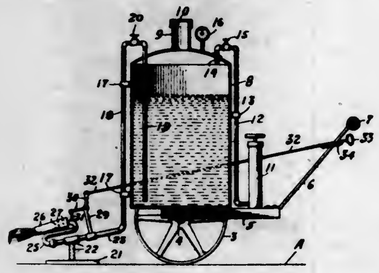
An apparatus of the kind set forth comprising a pair of casings, the one being rotatably mounted within the other, an induction coil carried within the rotatably mounted casing, one terminal of the primary of said coil being grounded to the casing, a ring centrally disposed on top of said rotatable casing and formed on its upper face with a plurality of uniformly spaced cam elements, the remaining terminal of the primary of the said induction coil being connected to this ring, a cover removably secured to the outer casing and inclosing the inner casing therein, binding posts carried by said cover and disposed at equi-angular distances thereon, contact elements electrically connected with the binding posts and carried on the inner face of the cover, a sliding contact element carried by the inner casing for engagement with the first said contact elements when the casing is rotated, one terminal of the secondary of the induction coil being connected to this last said contact element and the remaining terminal being grounded to the inner casing, a screw threadingly engaged in the cover member and passing therethrough, a binding post carried by the cover member with which the screw is electrically connected, a rocker arm pivotally mounted on the cover member, a roller contact carried by the rocker arm, and bearing upon the said ring and cam elements thereof when the inner casing is rotated, and a contact member carried by the rocker arm at the end remote from the roll, the last said contact member being brought into contact with and separated from the said screw when the inner casing is rotated, the screw providing adjustment to position it for contact with the last said contact member when the roll on the rocker arm rests on the ring between the cam element thereof.

1,353,046. CONCRETE BLOCK CONSTRUCTION. HERMAN M. KNIGHT, Rome, N. Y. Filed Apr. 6, 1914. Serial No. 829,757. 4 Claims. (Cl. 72—30.)



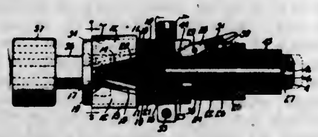
2. In a building construction, blocks having inwardly extending ribs, dove-tail grooves formed in the abutting surfaces of the ribs, double dove-tail keys inserted in the registering dove-tail grooves, said inwardly extending ribs being also provided with openings adapted to engage a binder.

1,353,047. STREET-CLEANER. GEORGE KOMARCSEVITS, Cleveland, Ohio. Filed Sept. 19, 1919. Serial No. 324,795. 2 Claims. (Cl. 158—28.)



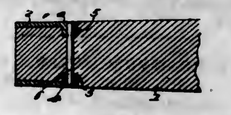
1. A burner for street cleaners including a supply pipe, a branch pipe extending transversely of the outer end thereof and rotatably supported by said supply pipe, distributing pipes reversely curved at their opposite ends and having one end connected to the branch pipe with the intermediate portion overlying the branch pipe, and jet nozzles supported on the distributing pipes forwardly of the free ends thereof.

1,353,048. COLLAPSIBLE TAP. VICTOR R. KOONTZ, Waynesboro, Pa., assignor to Victor Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Nov. 16, 1918. Serial No. 262,835. 6 Claims. (Cl. 10—145.)



1. A tap comprising a body portion, chasers radially mounted in the end of said body portion, a plunger co-acting with said chasers, a second adjustable plunger coacting with the first mentioned plunger, a collar formed on said second plunger, a spring-pressed latch co-acting with said collar to hold said plunger at one end of its stroke, a nut secured at the opposite end of said second mentioned plunger, a flange formed on the inner side of the bore in said body portion, and a spring co-acting between said flange and said nut to retract the said plungers, substantially as set forth.

1,353,049. SWINGLETREE-CLIP. DAVID F. LAING, McDonald Hills, Saskatchewan, Canada. Filed Nov. 27, 1918. Serial No. 264,398. 1 Claim. (Cl. 21—79.)



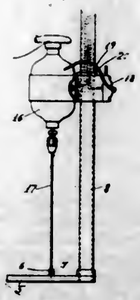
The combination with a swingle tree formed with counterbores on diametrically opposite sides and inset from its end, of a clip attached to the swingle tree in surrounding relation to the end portion of the latter and provided with trace attaching means and formed with laterally projecting ears overlying the counterbores and formed with bosses disposed in the counterbores, and a bolt passing through the ears, through the bosses and through the swingle tree.

1,353,050. MILK-CAN HANDLE. PETER LAMBRAKOS, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,326. 6 Claims. (Cl. 220—94.)



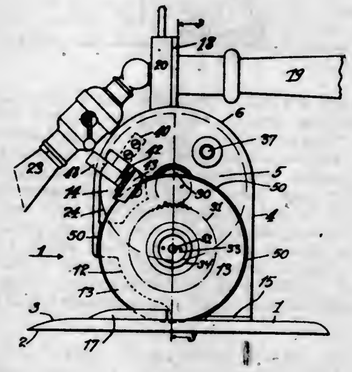
5. A handle attachment to facilitate the handling of cylindrical containers such as milk cans, comprising: a ring having an opening formed therein, clamp jaws made on the ring at the opening, a clamp screw carried by the clamp jaws for drawing the ring together, a handle yoke made in the form of a U shaped member with free extremities of the yoke readily fixed to the ring, and a hand grip rotatably mounted on the yoke member coincident with the axis of the container to which it is attached, and an expansion loop made in the ring to facilitate the opening and closing of the ring.

1,353,051. POCKET-MARKING MACHINE. FREDERICK M. LASERSON, New York, N. Y. Filed June 30, 1919. Serial No. 307,671. 1 Claim. (Cl. 77—6.)



A pocket marking machine comprising an open work base, provided with an aperture, a tool guide secured to said base and having an aperture in alinement with the aperture aforesaid, a slotted upright secured to said base, a block within said upright, a motor bracket surrounding said upright and adapted to slide thereon, means for connecting said motor bracket and the said block through the aforesaid slot in the upright, a motor supported in said motor bracket, a marking tool carried by said motor and adapted to operate through the apertures aforesaid, means for depressing said motor and tool, a stop secured on said upright and a spring within the latter and attached to the said block for automatically lifting said motor and tool after the same has been depressed.

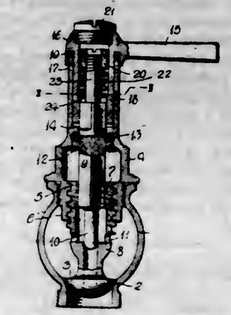
1,353,052. ELECTRICAL CLOTH-CUTTER. FREDERICK M. LASERSON, New York, N. Y. Filed June 30, 1919. Serial No. 307,672. 1 Claim. (Cl. 164—76.)



In a cloth cutting machine the combination of a base, an upright bracket secured thereto, a semi-circular flange portion formed integral with the said bracket and extending to the one side thereof overhanging the said base, a motor having a hub supported in said upright bracket, means for securing the said motor to and underneath the said semi-circular flange, which latter serves as a means for partially protecting the said motor and its said support in the said bracket, a knife mounted on the latter on the side opposite the motor, means for driving said knife from the motor, sharpening wheels for the knife, sharpening wheels supporting means secured to the said upright bracket underneath the said protecting flange, said supporting means projecting through an aperture in said upright bracket to support the said sharpening wheels in position to contact with the knife, and means on the outside of said bracket for operating said sharpening wheels into contact with the said knife.

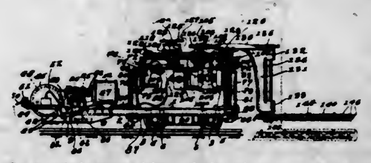
1,353,053. PACKLESS VALVE. JOSEPH P. LAVIGNE, Detroit, Mich., assignor to United States Novelty Mfg. Co., Detroit, Mich., a Corporation of Michigan. Filed June 12, 1915. Serial No. 33,656. 2 Claims. (Cl. 251—48.)

2. A valve comprising a casing having an inner annular valve seat, a bonnet closing the casing in substantially axial alinement with the seat and having an upwardly extending barrel, a closure for the seat, a hollow rotatable stem integral with the closure and screwthreaded into the bonnet, a post longitudinally reciprocable and non-rotatably related to the stem and revoluble in the barrel, a collar on the post, an annular flange in the bonnet above the collar, a compression washer between the collar and bonnet flange, a handle having a depending hollow stem journaled in the housing barrel in non-rotatable and longitudinally reciprocable engagement with the post, an annular flange on the handle telescoping over the upper portion of the barrel, joint sealing means between the handle flange and the adjacent end face of the bonnet, a



nut threaded on the upper portion of the post, and a spring in compression around the post between the nut and the depending portion of the handle stem.

1,353,054. MINING-MACHINE. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Feb. 12, 1914, Serial No. 818,314. Renewed Jan. 3, 1920. Serial No. 349,350. 9 Claims. (Cl. 262—29.)



1. In a mining machine of the class described, the combination of the wheeled track-guided truck having a bed frame held in rigid relationship to the wheel axis, a laterally swinging frame at the top of the machine comprising a horizontally widely extended approximately circular base frame element mounted on a fixed vertical axis and positioned directly above the bed frame, vertical column-like supports mounted upon and held in fixed relations to the bed frame, a horizontally widely extended ring-like frame element engaging with the extended base frame; arms extending downward from said ring-like element, a plurality of vertical-acting adjusting devices stationary on the bed frame and each adapted to vertically move a part of the said ring-like support independently of the other part, an elongated horizontally extended cutter arm mounted to be fixed in horizontal planes; a bracket extending downward from the base plate and supporting said cutter arm, a motor secured directly to the base plate, and power devices extending from said motor to the cutting apparatus.

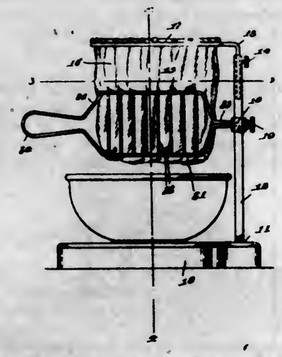
1,353,055. AUTOMATIC GRAPHITE-LUBRICATING SYSTEM FOR INTERNAL-COMBUSTION-ENGINE CYLINDERS. JOHN D. LOOG, New York, N. Y. Filed July 8, 1919. Serial No. 309,275. 8 Claims. (Cl. 184—58.)



5. In a graphite lubricating system of the character described, a system of piping leading to the various cyl-

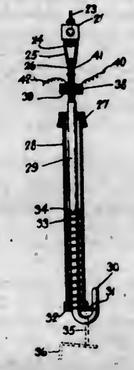
inders of the engine, a supply reservoir for supplying graphite to said piping, and a regulating construction for regulating the passage of graphite from the reservoir, said regulating construction comprising a casing having a feeding passageway and a valve bore, said feeding passageway merging into the valve bore, a cylindrical valve member slidingly fitted in said valve bore adapted to open and close said passageway, a rotatable manually operated head, means for connecting the head with said valve member in such a manner that when the head is rotated the valve member will be adjusted longitudinally of said bore for opening or closing to a greater or less extent said passageway according to the degree of movement of said head, and a locking spring carried by the casing engaging part of the head for locking same against accidental rotation.

1,353,056. JELLY-STRAINER. CHARLES S. LUDWIG, Trenton, N. J. Filed Mar. 20, 1920. Serial No. 367,364. 2 Claims. (Cl. 100—41.)



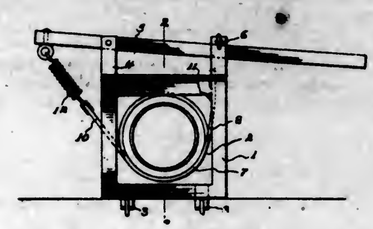
2. A device of the class described comprising a base, a standard secured thereto, a laterally extending horizontally disposed ring supported by said standard, a bag removably secured to the ring and a pair of squeezing members pivotally and adjustably mounted on said standard.

1,353,057. WEIGHT-OPERATED CIRCUIT-CLOSER. CHARLES H. MCNEIL, Beverly, Mass. Filed July 21, 1919. Serial No. 312,121. 1 Claim. (Cl. 200—85.)



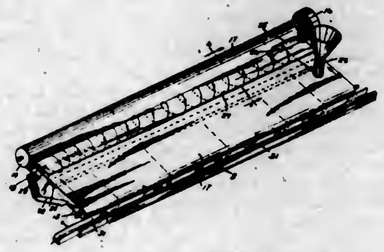
A circuit closer comprising a ring adapted to be supported from a rod, a casing supported by the ring, a spring influenced rod movable through the casing and having its lower end hooked to support a fluid containing bottle and designed to be moved outwardly of the casing against the pressure of the spring when the bottle is filled, bridging members, forming one contact, mounted on the ring, a threaded core, forming the other contact, carried by but insulated from said bridging members, and an adjustable screw inserted in the core and adapted to make contact with the rod when a predetermined amount of fluid is removed from the bottle.

1,353,058. FRUIT-JAR VISE. CLARENCE A. MERSMAN, Hubbard, Iowa. Filed Sept. 29, 1919. Serial No. 327,116. 3 Claims. (Cl. 81—3.3.)



3. A jar gripping device comprising a frame having a jar receiving opening, an extension on said frame, a lever pivoted intermediate its ends upon said extension, a flexible member adapted for encircling engagement with a jar disposed within said opening and having one end secured to said frame, and a spring connected with the other end of said flexible member and with one end of said lever, a second extension on said frame, and a removable pin passing through said second named extension and engageable with said lever whereby to hold said lever in position with said spring under tension, and said flexible member in gripping engagement upon the jar.

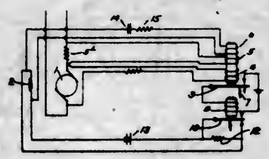
1,353,059. GRAIN-SEPARATOR. HENRY H. MEYER, Red Wing, Minn. Filed July 14, 1919. Serial No. 310,771. 12 Claims. (Cl. 130—18.)



1. In a grain separator, the combination with an apron having an upwardly moving separating surface, and a coöperating separating board extending transversely over said separating surface and arranged to permit the materials to be separated to be carried thereunder and operative to return said materials over the top thereof and back onto said separating surface.

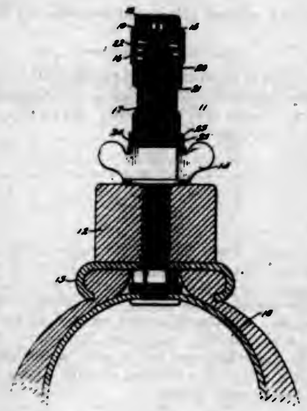
1,353,060. VOLTAGE-REGULATOR FOR DIRECT AND ALTERNATING CURRENT GENERATORS. JOSEPH W. MILNOR, New York, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Jan. 17, 1918. Serial No. 212,333. 8 Claims. (Cl. 171—229.)

1. The combination with a generator having armature and field circuits, of relay means having an armature controlling the field strength of that generator, means for maintaining the armature in vibration at a rate relatively high as compared with ordinary changes of voltage of the generator, and comprising a quickening condenser, and electromagnetic means affected by voltage variation of the generator and arranged, in the event of material voltage variation, to prolong the period of rest of such



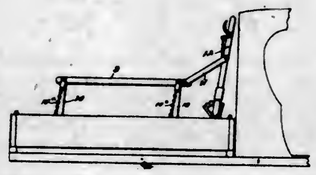
armature on one side or the other, as required to correct such voltage variation.

1,353,061. DUST-CAP FOR TIRE-VALVES. GEORGE B. MULLEN, Bay Side, N. Y. Filed Jan. 29, 1920. Serial No. 354,842. 4 Claims. (Cl. 152—12.)



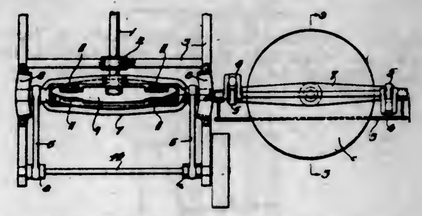
1. A device of the character described comprising an open ended cap having a central threaded recess in the closed end adapted to engage with and close the extremity of a valve stem, a cylindrical member telescopically received by said cap, means for effecting relative separation of the cap and said member, and means for limiting relative separation thereof.

1,353,062. DUMPING-BODY FOR VEHICLES. LEWIS B. NELSON, Wallingford, Iowa. Filed Sept. 16, 1919. Serial No. 324,084. 3 Claims. (Cl. 298—35.)



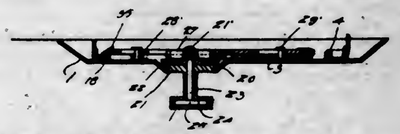
1. In a dumping body for vehicles, a pair of bottom sections adapted to swing longitudinally of the medial line of the body, operating means for said sections, comprising a pair of horizontal rocker arms, each connected by flexible members to one of said sections, and levers for operating each of said rocker arms, said levers connected to said rocker arms by a toggle joint.

1,353,063. POWER TRANSMISSION. WILLIAM C. NUTT, Point Marion, Pa. Filed Feb. 17, 1920. Serial No. 359,355. 6 Claims. (Cl. 74—14.)



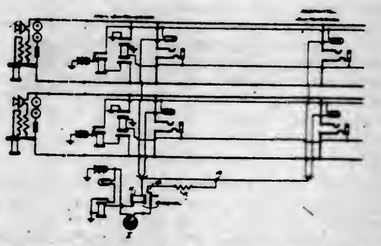
1. A power transmission, comprising a drive shaft, a cam wheel secured at an angle to the shaft, a frame straddling the cam wheel, a driven crank shaft, and links connecting the crank shaft and frame.

1,353,064. COMBINATION-LOCK FOR LETTER-BOXES. ADOLPH OLEVIN, Detroit, Mich., assignor to Alvin Electrical Products Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 22, 1917. Serial No. 203,392. 1 Claim. (Cl. 70—18.)



A lock including a door having a dial rotatably secured thereto, a plate slidably secured to said door and having an opening therein, a keeper engaging projection formed on said plate, a shank secured to said dial and extending through the opening, a dog pivoted to said plate and having one end disposed over said opening and having its other end of V-shape formation, a tension member secured to the plate and consisting of a pair of arms, one of said arms being disposed against one end of the plate and the other arm having its ends bent into substantially V-shape formation and disposed within the V-shaped end of the dog for limiting the pivotal movement of said dog, an actuating member secured to said shank, and a plurality of radially extending fingers formed on said actuating member and adapted to engage the first named end of the dog, and one of said fingers being of a greater length than the other fingers for retracting the plate on rotation of the dial.

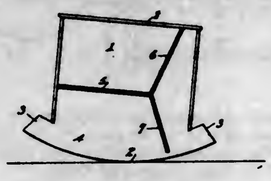
1,353,065. ASSOCIATED-SWITCHBOARD TELEPHONE SYSTEM. WILLIAM S. PACA, Oil City, Pa., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 19, 1917. Serial No. 202,748. 16 Claims. (Cl. 179—54.)



8. In a telephone system, the combination with a plurality of telephone lines therefor, the said lines being divided into groups, of signals individual to each of the lines, and means responsive to the actuation of more

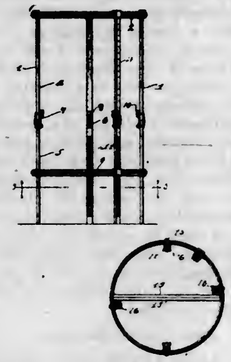
than a predetermined number of said signals of a group with which a calling line is located to control the actuation of the signal of the said calling line.

1,353,066. REVERSIBLE CHAIR. FRANK S. PASCOE, Cristobal, Canal Zone, Panama. Filed Sept. 12, 1919. Serial No. 323,256. 1 Claim. (Cl. 155—73.)



A reversible chair, comprising sides, a seat connecting the sides, a pair of backs secured to the sides and projecting above and below the seat, flat arms on the upper ends of the sides, extensions on the edges of the sides at their lower end, and strips secured to the front and rear edges of the sides and projecting beyond the sides.

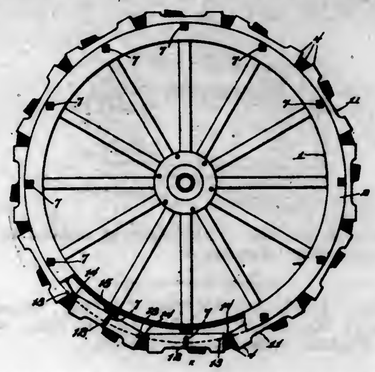
1,353,067. CURTAIN-STRETCHER. STANLEY PASTERNAK, Chicago, and JOSEPH PASTERNAK, West Harvey, Ill. Filed Dec. 8, 1919. Serial No. 343,279. 4 Claims. (Cl. 45—24.)



1. In a device of the class described, the combination of a plurality of supporting elements, a pair of annular members mounted in spaced relation on said supporting elements and coacting therewith to form a cylindrical-shaped frame, each of said annular members comprising a pair of arcuate-shaped sections hinged together so as to be foldable one upon the other when said rack is dismantled, one of said annular members being axially adjustable toward and away from the other said member longitudinally of said supporting elements, and fastening means on said members for securing a curtain or the like in stretched position on said frame.

1,353,068. TRACTOR-WHEEL. NIELS PETERSON, St. Anthony, Idaho. Filed Oct. 17, 1919. Serial No. 331,353. 3 Claims. (Cl. 305—13.)

3. In a tractor wheel, the combination of a rim having peripheral spaced flanges, bolts bridging the space between the flanges, and a circular series of tread members movable bodily on the bolts between the flanges and each tread member having a forwardly extending tongue arranged to raise the rear end of the next forward or preceding tread member, the said tread members



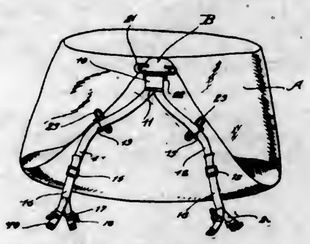
being backed by springs interposed between the same and the rim.

1,353,069. DEVICE FOR TRANSFERRING AND DISPENSING LIQUID. WILLIAM G. PILKINGTON, Buffalo, N. Y. Filed May 10, 1919. Serial No. 296,153. 3 Claims. (Cl. 226—63.)



1. In a device of the character described, a closure for bottles and like containers, a vial secured to and depending from said closure, said vial having a discharge mouth at its depending end and a vent in the side thereof adjacent its connection with said closure, and a valve for normally closing said mouth.

1,353,070. GARMENT-SUPPORTER. JULIA M. REGAN, Darby, Pa. Filed Mar. 26, 1920. Serial No. 368,059. 4 Claims. (Cl. 241—3.)

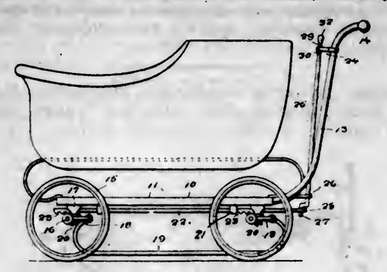


1. A supporter of the character described comprising a loop, a pin associated with the loop, a pair of divergently disposed straps suspended from said loop, a pin carried by each strap, and hose supporting means suspended from the free end of each strap.

1,353,071. COMBINATION BABY-CARRIAGE AND SLEIGH. JOHN ROWLAND, Republic, Wash. Filed Nov. 26, 1918. Serial No. 264,207. 2 Claims. (Cl. 280—11.)

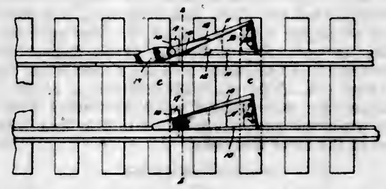
1. A perambulator including a frame, transversely disposed rock shafts thereon, wheels mounted for rotation upon each of said shafts, cranks included in the shafts, runners carried by said cranks, pinions carried by the rock shafts, a longitudinally movable rack bar engageable with the pinions, a rock shaft mounted upon the

handle, and a crank and slot connection between the rack bar and the handle supported rock shaft, whereby the



former may be moved longitudinally of the perambulator by a rotary motion of the latter.

1,353,072. RERAILER. CLARENCE RUNYAN, Aurora, Ind. Filed Mar. 30, 1920. Serial No. 369,930. 3 Claims. (Cl. 104—269.)



1. A car rerailer comprising inner and outer blocks designed to direct the wheels of a car in the direction of the rails of the track, a tie engaging element carried by each block, and arranged transversely thereof, said member having teeth along one of its longitudinal edges, adapted to be embedded into the side of the tie, and means for securing the opposite end of the block to the adjacent tie.

1,353,073. FENCEPOST. CHARLES SCHIVINS, Millvale, Pa. Filed June 10, 1919. Serial No. 303,031. 1 Claim. (Cl. 189—23.)



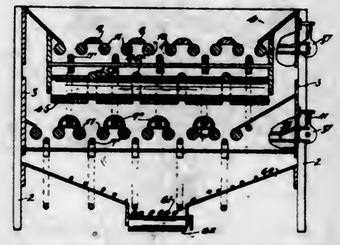
A fence post including a body of T cross section provided at its upper end with an upwardly directed substantially L-shaped element extending from the head of the T and forming therewith an upwardly directed U-shaped pocket open at its upper end adapted to receive the adjacent ends of fence rails, said post being further provided adjacent its lower end with upwardly directed L-shaped elements extending from the head of the T and from the lateral faces of the stem of the T and cooperating therewith to form pockets open at their upper ends adapted for reception of the ends of rails and acting to hold the rails against downward, lateral, and endwise movement in the direction of the post.

1,353,074. PULLEY. ALFONSO SCRITTA, Brooklyn, N. Y. Filed Apr. 8, 1919. Serial No. 288,438. 3 Claims. (Cl. 64—17.)



1. A pulley of the class described, having the smooth finished rim surface thereof provided with a plurality of circumferential strips of nurling, spaced laterally one from the other, and extending across said rim surface, as and for the purpose set forth.

1,353,075. FRUIT-GRADER. ROY I. SIBLEY, Gardena, Calif. Filed Nov. 7, 1919. Serial No. 336,476. 17 Claims. (Cl. 130—32.)



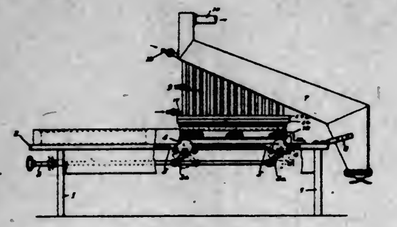
1. An apparatus for grading spheroidal bodies including a plurality of pairs of rollers spaced at different distances apart, one end of said rollers being reduced in diameter, a conveyer track extending longitudinally between and below each pair of said rollers, a conveyer extending transversely under the reduced ends of said rollers, and a conveyer extending longitudinally below each track conveyer and the pair of rollers above it.

1,353,076. THREADING ATTACHMENT FOR SHUTTLES OF LOOMS. JOHN W. SMALL, Burlington, N. C. Filed July 7, 1920. Serial No. 394,460. 5 Claims. (Cl. 139—46.)



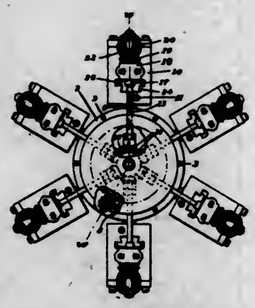
1. The combination with a loom shuttle, of a threader therefor comprising a guide plate mounted in the bobbin receptacle at one end of the shuttle, a guide and tension post, for the thread, carrying the plate, a guide and tension bar and finger carried by the plate on the under side thereof and engaged by the thread, and a guide and tension plate having an eye therein for the passage of the thread from the threader and associated with the first named plate.

1,353,077. MACHINE FOR CUTTING DOUGHNUTS, CAKES, &c. ARTHUR A. SMITH, Portland, Me. Filed Apr. 3, 1920. Serial No. 371,027. 8 Claims. (Cl. 107—24.)



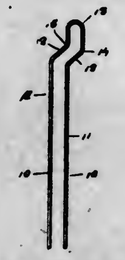
1. In a device of the character described, a waste chute, a plate carrying circular cutters, waste tubes entering said chute and registering with the waste spaces formed by said cutters, and means for forcing a fluid under pressure through said tubes into said chute.

1,353,078. AUTOMOBILE-TIRE REMOVER. ARTHUR A. Smith, Portland, Me. Filed Aug. 4, 1919. Serial No. 315,092. 2 Claims. (Cl. 157—1.)



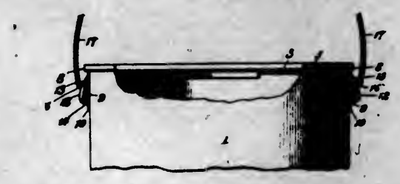
1. In a device of the character described, a base, a plurality of means for engaging one side of the tire of a wheel, a plurality of adjustable heads carried by said base, means carried by said heads for yieldingly engaging the other side of the tire, means for simultaneously moving the tire engaging means, whereby the tire is removed from the wheel, and means for adjusting the heads to fit tires of different sizes.

1,353,079. HAIRPIN. ERNEST L. SMITH, Sabula, Iowa. Filed Dec. 12, 1917. Serial No. 206,826. 1 Claim. (Cl. 132—22.)



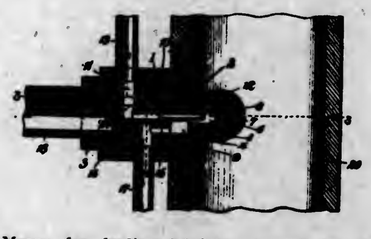
A hair pin formed from a single length of wire to provide a pair of limbs equidistantly spaced throughout the entire length of the pin, each limb including a long straight portion, a relatively short diagonally disposed portion and a relatively short straight portion all lying in a plane with the limbs of the pin, the said diagonally disposed portion extending in a common direction, whereby the closed end of the pin is slightly offset to one side of and parallel with the longitudinal center of the pin to impart a lateral edge-wise movement to each end of the pin in opposite directions, upon its final adjustment within the hair.

1,353,080. BAIL-EAR FASTENING FOR CANS. HARRY K. SMITH, Hamilton, Md. Filed Mar. 7, 1919. Serial No. 281,210. 3 Claims. (Cl. 220—91.)



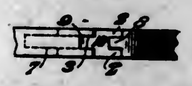
1. In a device of the class described, the combination with a container having an initially formed annular flange outstanding from its upper edge at substantially right angles to the sides thereof, and a head having a flange fitting over and partly inclosing the outstanding flange, of a bail ear comprising a base plate and a hollow boss projecting from the plate, said boss being provided with means to engage with an end of the bail, said ear also having an outwardly extending flange formed on the upper end of its base plate, said ear flange fitting against the under side of the aforesaid outstanding flange of the container, the three flanges being interlocked with each other when the flanges are rolled into a bead with the flange of the cover innermost.

1,353,081. METHOD OF AND MEANS FOR FEEDING LUBRICANT TO STEAM-ENGINES. WILLIAM FRANCIS STACK, Bay St. Louis, Miss. Filed Aug. 6, 1918. Serial No. 248,582. 10 Claims. (Cl. 184—56.)



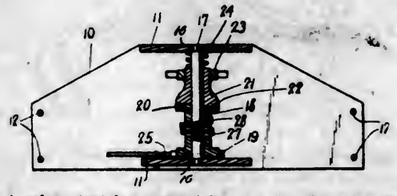
10. Means for feeding lubricant into steam flowing through a steam pipe to a part to be lubricated, comprising a body member with a screw nipple at one end for introduction into a steam pipe, a nozzle entering the screw nipple and provided with a head having a relatively thin laterally expanded outlet for location horizontally in the installed position, and a pipe entering the head in line with the outlet, said body member having therein a chamber back of the head, a passage communicating with the second-named pipe and another passage distinct from the first-named passage and communicating with the chamber.

1,353,082. PISTON-RING. FRANK K. STEHLE and CHARLES A. KEFFER, Philadelphia, Pa. Filed June 11, 1920. Serial No. 388,096. 3 Claims. (Cl. 74—109.)



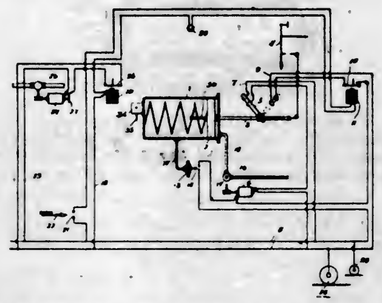
1. As a new article of manufacture, a piston ring having an outer tongue, an inner tongue projecting beyond said outer tongue, and an outer area 10 between said tongues and co-extensive with the width of said ring, said ring having inner and outer grooves, coacting with said tongues and an inner area 11 co-extensive with the width of said ring, said areas forming a lapped joint when the ring is compressed and said tongues and grooves interlocked.

1,353,083. WIRE-STRETCHER. WILLIAM B. STEPHENS, Sunset, Tex. Filed Oct. 27, 1919. Serial No. 333,433. 4 Claims. (Cl. 254—161.)



1. A wire stretcher comprising a pair of spaced longitudinally disposed plates, transverse plates connecting the longitudinal plates, a shaft having bearings in the transverse plates, a cable secured to the shaft and adapted to be wound thereon, a ratchet mechanism engageable with the shaft, an operating lever engaging said ratchet mechanism to rotate the shaft and a coiled spring surrounding the shaft and bearing against the ratchet mechanism to hold the latter in engagement with the shaft.

1,353,084. AUTOMATIC TRAIN-STOP. NICOLA STRAMAGLIA, Chicago, Ill. Filed Jan. 30, 1920. Serial No. 355,247. 3 Claims. (Cl. 246—187.)



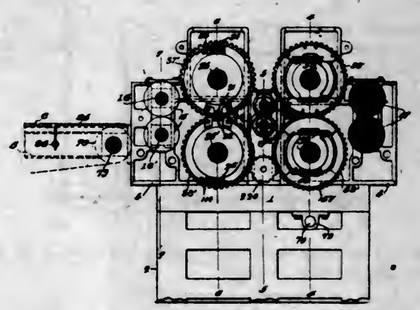
1. An electrical train stopping system comprising a piston for connection with the throttle lever of the train, a cylinder for the piston, a valve controlling the flow of steam to and from the cylinder, a motor for turning the valve in either direction, a reverse switch for controlling the direction of rotation of the motor, a circuit closer operated upon a predetermined travel of the piston for controlling the operation of the motor, and electric circuits for connecting said circuit closer, switch, and motor to a source of current under danger conditions.

1,353,085. SEPARABLE CUFF-BUTTON. ERICK J. SWEDLUND, Williston, N. D. Filed Jan. 28, 1920. Serial No. 354,649. 6 Claims. (Cl. 24—102.)



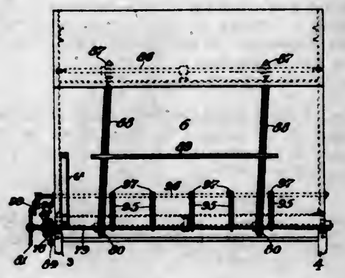
1. A separable cuff button comprising a male member and a female member and a ball and socket connection and a bodily slidable clutch lock between the male and female members.

1,353,086. CREASING AND SLOTTING MACHINE. GEORGE W. SWIFT, Jr., Bordentown, N. J. Filed Nov. 7, 1917, Serial No. 200,698. Renewed Dec. 16, 1919. Serial No. 345,301. 15 Claims. (Cl. 93—58.)



8. In a machine of the class described, the combination of a pair of shafts, interlocking means operative to maintain said shafts in constant angular relation, a set of transverse creasing bars secured to said shafts, a second set of transverse creasing bars movable about said shafts, means to normally secure said second set of creasing bars to their respective shafts, and interlocking means operative to maintain said second set of creasing bars in constant angular relation.

1,353,087. FEED MECHANISM FOR SLOTTING AND CREASING MACHINES. GEORGE W. SWIFT, Jr., Bordentown, N. J. Original application filed Nov. 7, 1917, Serial No. 200,698. Divided and this application filed Mar. 27, 1918, Serial No. 225,025. Renewed Dec. 19, 1919. Serial No. 346,168. 11 Claims. (Cl. 271—51.)

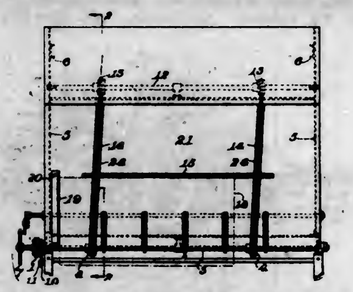


4. In a machine of the character described, a member comprising a ring provided with an L-shaped slot therein operative to form a flexible shaft gripping portion, and a segmental portion of said ring provided with a bearing eccentric to said ring.

1,353,088. FEED MECHANISM. GEORGE W. SWIFT, Jr., Bordentown, N. J. Original application filed Nov. 7, 1917, Serial No. 200,698. Divided and this application filed Feb. 17, 1919, Serial No. 277,550. Renewed Dec. 19, 1919. Serial No. 346,167. 5 Claims. (Cl. 271—49.)

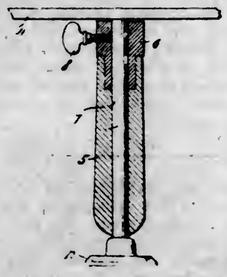
1. In a machine of the character set forth, the combination of a feed table, a side guide upon said table, feeding means traversing said table in a path inclined from the longitudinal toward said side guide and having sheet engaging members adapted to frictionally engage

the rear edge of a sheet and push it forward in said inclined path until the sheet engages the side guide and



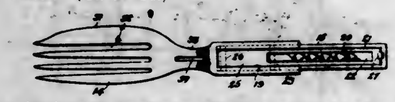
then slip laterally upon and complete the advance of the sheet parallel with the guide.

1,353,089. FILING-GAGE. GEORGE SANDERS SWYGERT, Columbia, S. C. Filed Feb. 17, 1919. Serial No. 277,549. 1 Claim. (Cl. 33—185.)



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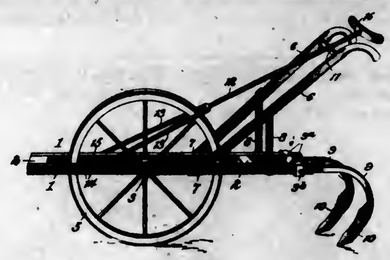
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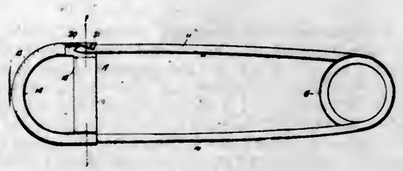
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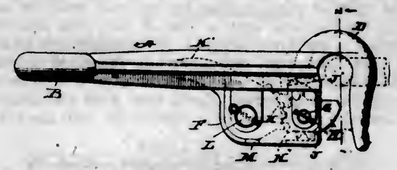
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2. A safety pin comprising main members connected at one end by a resilient element, a keeper rigidly secured to the opposite end of one of said members, said keeper including pockets spaced apart to provide a single entrance to the pocket openings for receiving the other member and means located centrally of said entrance to deflect said member laterally for entrance into one of the pockets.

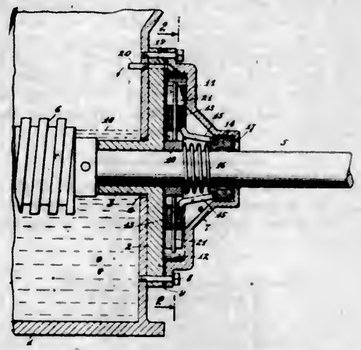
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1. A draft coupling, consisting of a draft member, a hook carried by said member, a casing carried by said member and provided with a pair of pivot pins, a latch mounted upon one of said pins and formed with teeth upon one surface thereof, a manually operated lever pivoted upon the other pin and formed with teeth on one surface thereof meshing with the teeth of said latch, whereby the movements of the latch are controlled by the



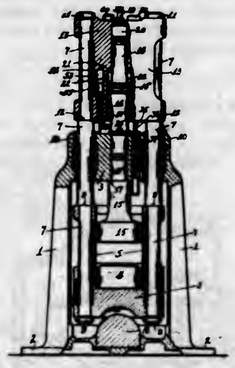
operation of said lever in effecting coupling and release movements.

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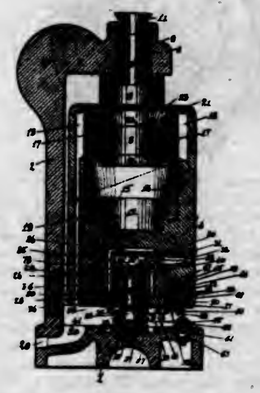
2. The combination with a housing adapted to receive a shaft projecting therethrough, a gasket in the housing adapted to surround the shaft, and a sliding collar around the shaft in the housing engaging the gasket, of a rotor in the casing adapted to be turned by the shaft, and a governor operated by the rotor and controlling the position of the collar.

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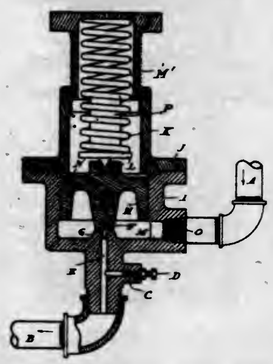
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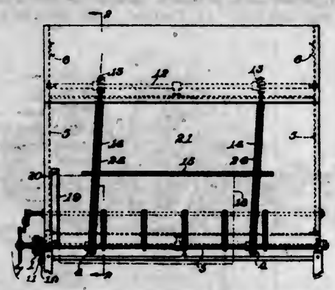
1. An ore stamp mill comprising a frame; guides fitted to the frame: a mortar fitted upon said guides for reciprocative movement, and adapted by the removal of one of said guides to be turned outwardly from the frame upon the other of said guides as an axis; a fixed stamp carried by the frame; and means for reciprocating the mortar to crush the ore against the stamp.

1,353,098. REGULATOR FOR AIR-COMPRESSORS. CHARLES WAINWRIGHT, Erie, Pa. Filed Apr. 13, 1918. Serial No. 228,424. 1 Claim. (Cl. 230—24.)



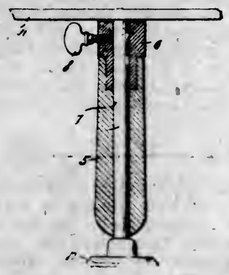
An unloader having a chamber, means extending laterally from the chamber to connect said chamber with a source of compressed air supply, a flat valve seat on the inner end wall of the chamber, a conduit of considerably less area than the flat valve seat leading through said seat and adapted to be connected with apparatus to be controlled, a spring-pressed piston having a flat surface opposed to the valve seat and arranged to permit compressed air from the source of supply to act against said surface, and a stop at the opposite side of the piston to said flat surface, whereby when the piston lifts the additional pressure in the chamber will cause the piston to jump to its limit stop.

the rear edge of a sheet and push it forward in said inclined path until the sheet engages the side guide and



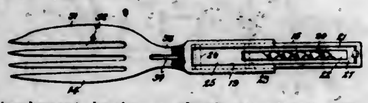
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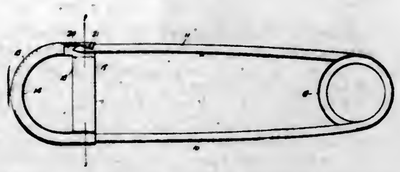
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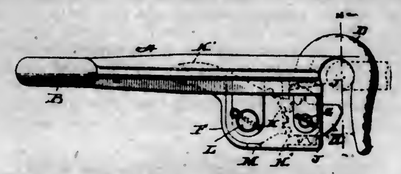
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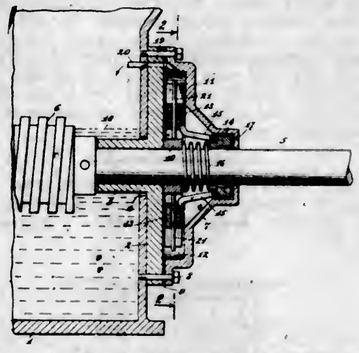
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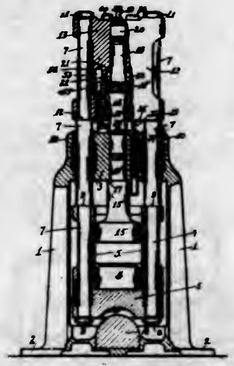
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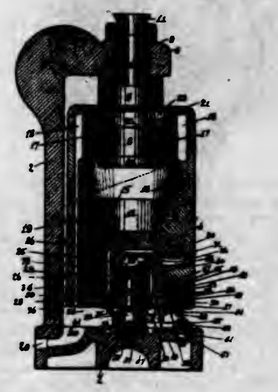
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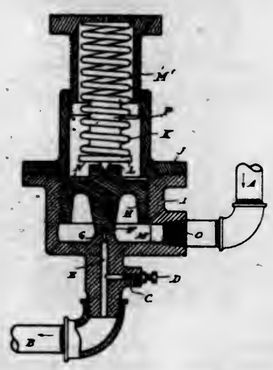
1. A stamp-mill comprising a fixed frame; a mortar mounted on the frame for reciprocative movement; a stamp fixedly mounted in the frame and over which the reciprocative mortar plays to crush the ore by impact against said stamp; a cylinder connected with the mortar; a piston fitted in said cylinder fixed against reciprocative movement; fluid controlling connections to reciprocate said cylinder on said fixed piston; and means carried by the cylinder and actuated by contact with the fixed frame for operating said fluid controlling connections.

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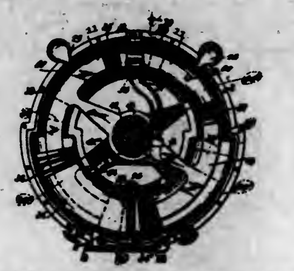
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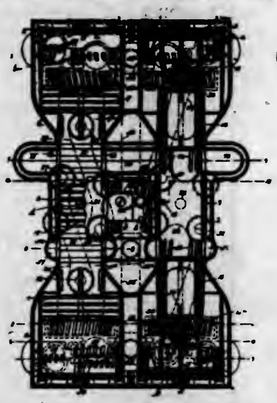
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1,353,099. POWER PLANT FOR AUTOMOBILES. NATHANIEL B. WALES, New York, N. Y., assignor, by mesne assignments, to Wales Motors Corporation, a Corporation of Delaware. Filed July 25, 1917. Serial No. 182,692. 3 Claims. (Cl. 123—2.)



3. In an internal combustion engine, the combination of two cylinder structures arranged side by side and each comprising two arcuate cylinders closed at one of their ends to form air compression chambers, and cross-connected at their opposite ends by independent unchanging cross passages to form common clearance chambers connecting the end of each arcuate cylinder on one side with the end of the opposing cylinder on the other side, and a pair of connected power and air-compression variable stroke floating pistons in each arcuate cylinder, the pairs of pistons in the cylinders on one side being connected respectively with the pairs of pistons of the opposing cylinders on the other side to cause the connected pistons to move in unison but in opposite directions.

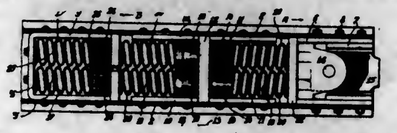
1,353,100. AIR-COMPRESSION POWER PLANT. NATHANIEL B. WALES, Detroit, Mich., assignor to Wales Motors Corporation, a Corporation of Delaware. Filed Aug. 1, 1918, Serial No. 247,725. Renewed June 8, 1920. Serial No. 387,510. 21 Claims. (Cl. 123—2.)



1. In a mechanism of the type described, the combination of a casing having oppositely positioned air compression cylinders, and an intermediate open-ended power cylinder, two variable-stroke reciprocating piston structures entering respectively the opposite ends of the power cylinder and the air compression cylinders, and means connecting said pistons to synchronize their reciprocatory movements in the cylinders.

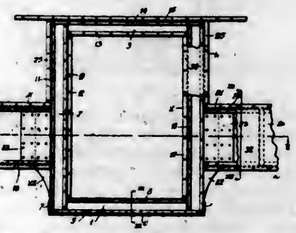
1,353,101. DRAFT-RIGGING. AARON N. WARFIELD, London, Ontario, Canada. Filed Dec. 20, 1918. Serial No. 267,591. 1 Claim. (Cl. 213—42.)

In a draft rigging, a housing, a draw bar extending therein, a head connected to said draw bar, short and long stops carried by the confronting walls of said housing at one end thereof and the short stops adapted to be engaged by said head, a U shaped rear stop carried by the side walls of said housing at the opposite end thereof, sets of stops carried by the side walls of said housing intermediate said U shaped rear stop and said long stops, a partition between the intermediate sets of stops, rods carried by said head and extending through said partition into said U shaped rear stop, a follower on said rods normally engaging said long stops and adapted to be shifted by said head into engagement with one set of



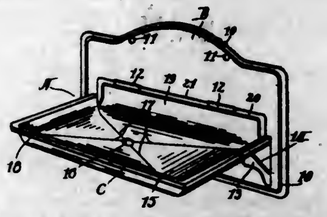
stops, a follower on said rods normally engaging said U shaped rear stop and adapted to be shifted into engagement with the other set of stops, abutments on said rods in said U shaped rear stop for shifting the last mentioned follower, pick-up portions on said rods in said partition, abutments on the pick-up portitions of said rods normally engaging said partition and adapted to move with said rods in opposite directions, springs on said rods in said U shaped rear stop against the abutments therein, and springs on said rods against the partition abutments and said followers.

1,353,102. DOORWAY CONSTRUCTION FOR CARS. AARON N. WARFIELD, London, Ontario, Canada. Filed Dec. 20, 1918. Serial No. 267,592. 4 Claims. (Cl. 105—398.)



4. A doorway frame made of a single piece of material providing a web having an opening, a sill and a lintel connected by side rails, and vertical and transverse angle bars on the sill, lintel and side rails of said frame at the inner and outer edges thereof with the transverse angle bars at the upper and lower edges of the web opening between the vertical angle bars.

1,353,103. COLLAPSIBLE SOAP-DISH. PAUL H. WELCKER, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed May 3, 1920. Serial No. 378,429. 6 Claims. (Cl. 45—28.)



2. A collapsible soap dish, including a supporting back, a soap tray, a holding flange formed along the rear edge of said tray, and engaging tongues and supporting brackets formed integral with and sheared out of said

back, adapted to engage said flange and tray respectively, to hold said tray rigid to and detachable from said back.

1,353,104. PICKLING-WEIGHT. ANNA ELISABETH WETSLER, Portland, Oreg. Filed Jan. 12, 1920. Serial No. 350,807. 1 Claim. (Cl. 215—99.)



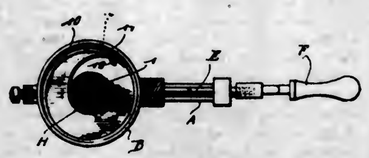
A pickling weight of disk formation having a central opening therein, flat upper and lower faces, each provided with radial grooves extending from said central opening to the periphery of the weight, and hand holes between said central opening and the aforesaid periphery.

1,353,105. ADVERTISING DEVICE. WELLINGTON BRASIL WHEELER, El Segundo, Calif. Filed Jan. 28, 1920. Serial No. 354,630. 5 Claims. (Cl. 40—78.)



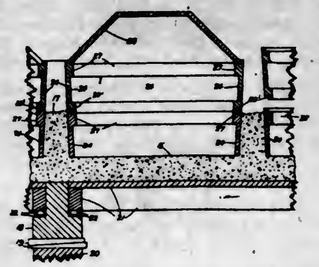
1. An advertising device comprising a plurality of panels arranged behind one another, mechanism for removing the foremost panel and depositing the same at the rear of the remaining panels for successively visualizing said panels, and means co-acting with the panels for detecting improper alinement of said panels.

1,353,106. SAFETY DEVICE FOR SPRING-MOTORS. HENRY A. WICOFF, Decatur, Ill. Filed Mar. 1, 1920. Serial No. 362,469. 3 Claims. (Cl. 185—43.)



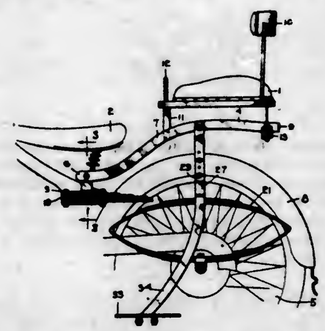
3. In a spring motor, the combination with the cylindrical spring box and the spiral spring disposed therein and adapted to be placed under tension, of an auxiliary spring disposed outwardly of said first named spring and frictionally engaging the inner wall of the box with its ends in overlapping relation, and a connection between the outer end of said first named spring and the inner end of said auxiliary spring, said connection comprising a tongue formed upon the innermost end of the auxiliary spring and engaged within an elongated opening in the outer end of the first named spring.

1,353,107. MODE OF CONSTRUCTING REINFORCED-CONCRETE SHIPS, BARGES, FLOATING STRUCTURES, AND THE LIKE. EVAN OWEN WILLIAMS, Parkstone, England, assignor to Williams Foreign Patents Limited, London, England. Filed May 15, 1918. Serial No. 234,764. 2 Claims. (Cl. 25—130.)



1. In combination with the bottom slabs of a concrete construction upwardly flaring box shaped molds resembling frustums of pyramids open at top and bottom, said molds being provided with inwardly extending lips and spigot joints for engaging one with the other so that when assembled, their outer walls form the spaces between them to receive concrete to provide stiffening ribs on said bottom slab, substantially as described.

1,353,108. MOTORCYCLE-SEAT. MILTON EDWARD WOOD, South Amboy, N. J. Filed Aug. 23, 1919. Serial No. 319,495. 7 Claims. (Cl. 208—24.)



1. A device of the character described, comprising a member having one end thereof pivotally carried on a motor cycle, a seat supporting means arranged at the other end thereof, and means for yieldingly supporting said first named member, said means including an elliptical spring and a member fixed to the spring, a foot rest fixed to said last named member, and means for adjusting the distance between the said foot rest and seat.

1,353,109. CUFF-LINK. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed June 27, 1919. Serial No. 307,110. 5 Claims. (Cl. 24—102.)



1. A cuff link comprising a shank portion carrying at at least one end thereof a stud for passage through a cuff

buttonhole, and a snap fastener socket for engagement with said stud on the opposite side of the cuff from said shank portion, said socket separable from said stud by relative tipping of stud and socket.

1,353,110. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,783. 8 Claims. (Cl. 24—217.)



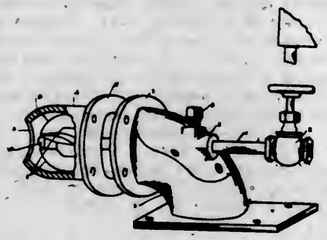
2. A separable fastener comprising, in combination, a stud having a head and a neck; a socket including a casing, a flat spring in the casing, said spring having a stud-receiving aperture therethrough and having a slit, and a notch communicating with said aperture.

1,353,111. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,784. 4 Claims. (Cl. 24—217.) 24—217.)



1. A separable fastener comprising, in combination, a stud having a head and a neck; a socket for engagement with said stud including a spring having a stud-receiving aperture therein, split at one side and providing as a part of the stud-receiving aperture a plurality of notches, said notches of less width than the major diameter of the neck of said stud.

1,353,112. LIQUID-FUEL BURNER. WILLIAM CLARKE, Montreal, Quebec, Canada. Filed Sept. 22, 1919. Serial No. 325,545. 1 Claim. (Cl. 158—76.)



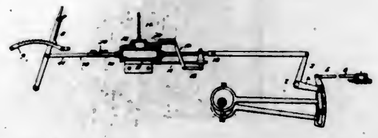
In a liquid fuel burner, an air pipe having an opening and a removable cover plate closing said opening, a gravity feed pipe extending through said cover plate, a slide valve closing the inlet end of said air pipe, a burner casing joined to the outlet end of said air pipe and having an outlet at the outer end thereof, a deflecting member inserted in said burner casing and formed of a central body having a fuel passage and a plurality of deflecting ribs longitudinally arranged and extending from the inner end of said body and in cross section shape gradually tapering to the inwardly converging ends beyond said body and running for about the length of the burner casing in substantially S-shape and a nozzle in the center of said converging ends.

1,353,113. FISHING-REEL. CLARENCE L. DEETS, Portland, Oreg. Filed Jan. 20, 1920. Serial No. 352,808. 10 Claims. (Cl. 242—84.5.)



1. A fishing reel comprising a standard, a rotatable spool, a cam-lever having a hub and fulcrumed on the axis of the spindle between the standard and the adjacent side of the spool, cam-surfaces formed in the hub of the standard radially of, and concentric with the axis of the spool, corresponding cam-surfaces formed in the hub of the lever, whereby when the lever is depressed the cam-surfaces will move the hub of the lever against and cause it to exert a frictional bearing on the adjacent side of the spool.

1,353,114. VALVE-CHANGING MEANS. ARA B. EDWARDS and CHARLES A. TURNER, Hamlet, N. C., and THOMAS L. REED, Atlanta, Ga. Filed Oct. 16, 1918. Serial No. 258,364. 5 Claims. (Cl. 121—41.)

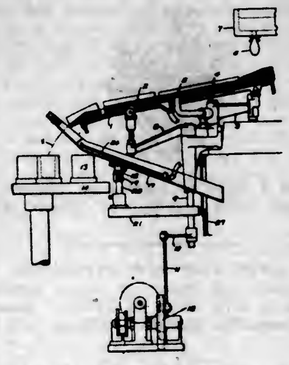


1. The combination in locomotive control equipment, of manually operable means, a reach rod comprising a member connected with said means and having a tappet and a second member with respect to which the first named member has a limited movement, the said second member carrying a piston and having exhaust conduits extending to opposite sides of the piston, valves carried by the second member and controlling said conduits and disposed at opposite sides of and adapted to be opened alternately by the tappet of the first member, a cylinder surrounding the second member of the reach rod and inclosing the piston, a valve chest carried by said cylinder and adapted to be connected with a source of fluid pressure supply, ports intermediate the valve chest and the interior of the cylinder at opposite sides of the piston, a control valve movable in said chest and having ports and also having a minor member in which are bleed ports for use in conjunction with the said ports, said minor member being capable of limited movement with respect to the remainder of the control valve, and a connection between the forward member of the reach rod and the minor member of the control valve for moving the latter by the former.

1,353,115. GLASS-WORKING MACHINE. ALFRED R. HUNTER, Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y., a Corporation of New York. Filed Nov. 12, 1917. Serial No. 201,469. 10 Claims. (Cl. 49—55.)

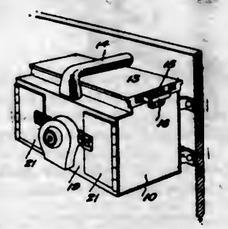
1. The combination with means for delivering mold charges of molten glass successively to a plurality of mold charging stations of means adapted to be selectively

interposed between either of said stations and delivery means for deflecting the glass from its normal path of



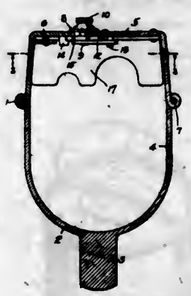
delivery to the said station while permitting delivery of the glass to the other of said stations.

1,353,116. COIL-BOX. VICTOR A. LINGLE, Lewisburg, Pa. Filed Mar. 5, 1920. Serial No. 363,557. 3 Claims. (Cl. 175—360.)



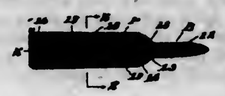
1. A coil box comprising a main coil compartment, a removable cover therefor, a terminal compartment and normally closed openings for said terminal compartment.

1,353,117. WHEEL-LOCK. CHARLES E. THOMPSON, New York, N. Y., assignor of one-half to Thomas J. Hill, New York, N. Y. Filed Nov. 8, 1919. Serial No. 336,554. 2 Claims. (Cl. 70—90.)



1. A device of the character stated, comprising a yoke, an enlargement on the yoke, a pair of angular members hingedly connected to the yoke, one of said members having a transversely extending slot therein, a locking pin projecting through the slot, a knob on the outer end of the pin, a disk and a locking dog on the inner end of the pin, said disk and dog both adapted to project across the meeting edges of the members, and means controlling the rotary and lateral movements of the pin.

1,353,118. CARTRIDGE. JOHN T. THOMPSON, Newport, Ky., assignor of one-half to Thomas F. Ryan, New York, N. Y. Filed Jan. 6, 1920. Serial No. 349,782. 20 Claims. (Cl. 102—12.)



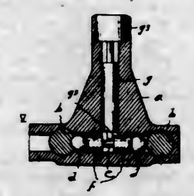
5. A caseless cartridge comprising a body of solid explosive, and a bullet having a core and a jacket, a portion of the jacket extending exteriorly over said body and having its edge embedded therein to retain the two members in fixed relation.

1,353,119. GEAR-LOCK FOR AUTOMOBILES. CHARLES G. TROSIEN, Pontiac, Mich. Filed Aug. 16, 1919. Serial No. 317,857. 4 Claims. (Cl. 70—126.)



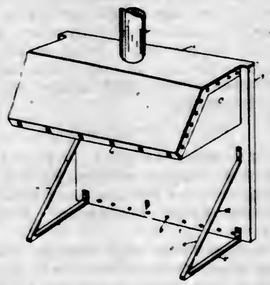
4. In an apparatus of the kind described, two parts adapted to move parallel and adjacent to each other to shift the change speed gearing, a lug rising from one of said parts, a lug rising from the other of said parts, said lugs being so located that they shall come adjacent to each other at the neutral position of the gearing, and a rod extending through the gear casing adapted to engage said lugs to prevent the motion of said parts and to disengage said lugs.

1,353,120. GEAR-LOCK FOR AUTOMOBILES. CHARLES G. TROSIEN, Pontiac, Mich. Filed Jan. 26, 1920. Serial No. 354,108. 2 Claims. (Cl. 70—126.)



1. In an apparatus of the kind described, two shifting rods having cavities in their adjacent sides, a cavity extending between said rods, balls in the ends of said cavity, a transverse rod extending between said balls, sleeves surrounding said rod, and a locking cam to cause said sleeves to engage against said balls or to release the same.

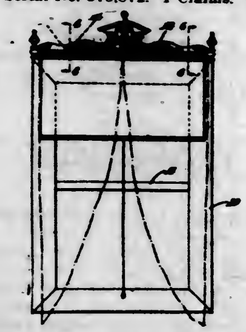
1,353,121. STOVE-CABINET. TOM WONE, Montreal, Quebec, Canada. Filed Jan. 17, 1920. Serial No. 352,158. 2 Claims. (Cl. 126—37.)



1. In a stove cabinet, a hood portion extending outwardly from a back, each being of hollow wall formation

having air inlets, said back extending beyond said hood at each end thereof, brackets secured to said back extending forwardly therefrom and forming independent supports for said hood and back, an outlet pipe extending from said hood and side walls fitting to said back beyond said hood and abutting the latter and communicating therewith, said side walls being removably fastened in their position and with said back and hood forming an air jacket adapted to partially surround a heating element.

1,353,122. WINDOW CURTAIN AND SHADE SUPPORT. JHAN KROTOWITCH, Lillian, W. Va. Filed Apr. 22, 1920. Serial No. 375,872. 4 Claims. (Cl. 156—13.)



4. In a window curtain support, a headboard having at the ends a pair of rearwardly extending side bars, and curtain pole supporting devices on said side bars, one of said devices including an angular plate extending across the bottom and inner face of the side bar and covering a recess in the said bar, a latch pivoted on the horizontal flange of said plate, a spring pressing said latch against the vertical flange of said plate, said plate having a slot extending partly along the horizontal flange of the plate and partly up the vertical flange of the plate, the end of the curtain pole being beveled to engage and move said latch when the said end is moved upwardly in the said slot.

1,353,123. CARTRIDGE-FUSE. LAWRENCE F. KRIES, Baltimore, Md., assignor to Charles Morgan Marshall, trustee, Baltimore, Md. Filed Aug. 16, 1918. Serial No. 250,186. 3 Claims. (Cl. 200—119.)



2. A cartridge fuse comprising an elongated casing divided by a transverse partition into two compartments, a fuse in each compartment, said fuses being of different carrying capacities, and connected in series, the end wall of one of said compartments being readily removable to afford access to the fuse in that compartment, and the other compartment being sealed against opening except by destroying the casing.

1,353,124. ELECTRIC SWITCH. CHARLES J. KLEIN, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 24, 1916. Serial No. 133,103. 8 Claims. (Cl. 200—168.)

7. A feed-through switch comprising, in combination, a casing having separable recessed sections united along a common plane, a snap switch mechanism inclosed therein, an operating member for said switch mechanism disposed in said plane, said sections being provided with registering grooves, one to receive said mechanism and the other to receive a feed-through conductor, said grooves



extending in a direction tending to intersect, the conductor groove being deflected to by-pass said switch mechanism.

1,353,125. DUST-CAP FOR PNEUMATIC VALVES. JOHN CURRIE and HENRY W. BELL, Seattle, Wash. Filed Aug. 7, 1919. Serial No. 315,971. Renewed June 1, 1920. Serial No. 385,766. 4 Claims. (Cl. 152—12.)



3. A dust cap of the character described, comprising a shell open at one end and having an aperture in its periphery, a block extending into said aperture, said block being provided with screw threads on its inner face, and resilient means extending circumferentially about the shell and tending to yieldingly hold the threaded portion of the block within the chamber of said shell.

1,353,126. PROCESS OF TREATING MOLTEN METAL. OTTO THIEL, Landstuhl, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Dec. 28, 1916. Serial No. 139,431. 2 Claims. (Cl. 75—27.)

1. The herein described process of treating molten metal and slag to remove the slag which consists in adding to the molten metal a quantity of unmelted metal of a similar kind to cause the slag to flow away from the surface of the molten metal in quantity corresponding to the quantity of unmelted metal added.

1,353,127. GARBAGE-CAN. GUY W. FERDON, Creskill, N. J. Filed Jan. 26, 1920. Serial No. 354,186. 2 Claims. (Cl. 220—56.)

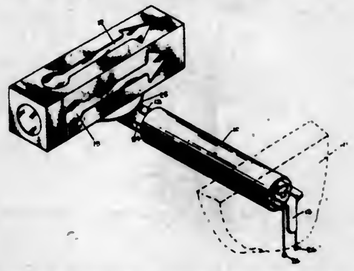


1. In a garbage can, in combination, a cylindrical pail, a bail semicircular in shape and of greater radius than the pail, pivoted to the pail at diametrically opposite points, a circular lid hinged to the pail so as to be capable of turning back over the pail at a point midway between

the pivot points of the bail and a removable link loosely pivoted to the lid forward of the plane of the bail when upright, said link extending to the upper part of the upright bail and loosely and slidably connected thereto, whereby side or downward pressure upon the link or the bail effects the moving of the lid upon its hinge to open and close the pail and whereby the pail may be lifted or moved by a mittened hand.

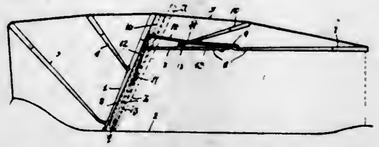
2. In a garbage can, in combination, a pail, a bail, a lid hinged to said pail, a link having a loose connection with the lid and a loose and sliding connection with the bail, the construction being such that the lid may be raised to any angle or turned back completely, and a spring clip having toe engaging means arranged on the pail to take over the lid and to hold the lid securely down, the clip being arranged as near as possible to the link whereby the clip may be swung back and the link pressed rearwardly by hand or foot with relatively little movement.

1,353,128. DIRECTION-INDICATOR. SEIHACHIRO NAKASORA, Niles, Calif. Filed Mar. 25, 1920. Serial No. 368,559. 5 Claims. (Cl. 116—46.)



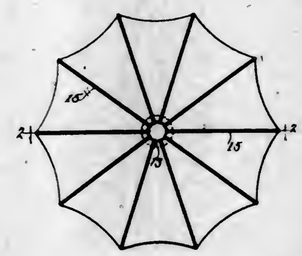
1. A vehicle direction indicator comprising a rectangular lamp containing casing with longitudinal, colored, translucent direction pointers in its sides, a horizontal bar upon which the casing is supported, a vertical pin journaled in the bar, upon which the casing is turnable, means connected with the casing by which it may be horizontally turned with the pointers indicating the direction of the turn to be made and a pair of oppositely coiled springs connected with the pin, the tension of one spring being increased when the casing is turned to return the casing to its normal balanced position when released, and means by which the bar may be revolved to place the indicator in a vertical position.

1,353,129. TOP FOR VEHICLES AND THE LIKE. FREDERICK K. LEWIS, Ashtabula, Ohio, assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio, a Corporation of Ohio. Filed Oct. 1, 1918. Serial No. 256,442. 9 Claims. (Cl. 296—116.)



5. In a top for vehicles and the like, the combination of a main bow; a two-part articulated outrigger bow having its rear portion pivotally connected to said main bow; a supplemental bow pivotally connected to such rear portion of said outrigger bow; and three links directly pivotally connected together, the intermediate link being pivotally attached to said supplemental bow and the other two links being respectively pivotally attached to said main bow and to said outrigger bow beyond the joint therein, the point of connection between the forward and intermediate links lying below a line through the points of connection of said forward link and said outrigger bow and between the rear link and said main bow when the top is extended.

1,353,130. PARACHUTE. WILLIAM J. RUFF, Quincy, Ill. Filed May 25, 1918. Serial No. 236,459. 10 Claims. (Cl. 244—21.)



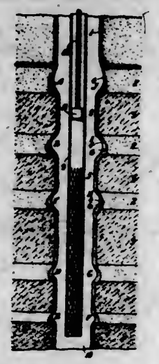
1. In combination, a flexible member arranged to form when opened the dome of a parachute, a device for supporting a weight to be carried by said parachute, cords extending from said supporting device to the central portion of said flexible member, supplemental cords extending from said supporting device to the periphery of said flexible member, and means for adjusting the length of said last-mentioned cords.

1,353,131. PARACHUTE. WILLIAM J. RUFF, Quincy, Ill. Filed Sept. 3, 1918. Serial No. 252,309. 2 Claims. (Cl. 244—21.)



2. A parachute comprising a canopy having an opening at its center; a ring secured to the canopy around said opening; a supporting ring below the first-mentioned ring; a plurality of supporting strands secured to the periphery of the canopy and the supporting ring; an upright cable between said rings and disposed at the axes thereof; a plurality of short cables of substantially equal lengths, one end of each of said short cables being secured to one end of the upright cable and the other ends of said short cables being secured to one of said rings; and a plurality of short strands of substantially equal lengths, each strand having one end secured to the other end of said upright cable and their other ends secured to said other ring.

1,353,132. WELL CONSTRUCTION. PERCY E. VAUGHAN and STANLEY M. HALSTEAD, San Jose, Calif. Filed Oct. 13, 1919. Serial No. 330,230. 7 Claims. (Cl. 166—21.)



1. In deep well construction of the type wherein the bore is kept filled with a thick fluid throughout the drilling operation and wherein a casing of less diameter than the bore is employed and a filling of gravel or like porous material placed between, the method of preparing the well for the admission of gravel which consists in agitating said fluid throughout the depth of the well whereby to thoroughly equalize the fluid and take up in solution or suspension deposits of non-porous material formed on the walls of the bore and in the cavities surrounding the loose strata, said agitation being carried on progressively from top to bottom of the well.

1,353,133. ERASING-SHIELD. FREDERICK P. ZWICKER, San Francisco, Calif., assignor of twenty-five per cent. to Wilbur J. Ryan and twenty-five per cent. to Albert H. Holaday, San Francisco, Calif. Filed Oct. 27, 1919. Serial No. 333,669. 5 Claims. (Cl. 197—181.)



1. An erasing shield for typewriting machines comprising a curved shield, and supporting members at each end of the shield adapted to rest upon the platen of the typewriting machine and to slightly elevate the shield with relation to the platen.

1,353,134. PIVOTED LINK. WARREN L. SHIFFER and PETER K. SHNYDER, Williamsport, Pa. Filed May 24, 1920. Serial No. 383,886. 4 Claims. (Cl. 24—241.)



1. A device of the character described, comprising a pair of jaws pivoted together at one end and terminating at the other end in hooks lying in side to side engagement with each other in a plane disposed substantially at right angles to the longitudinal extent of the pivot, and having lugs adapted to lap the rear sides of the jaws.

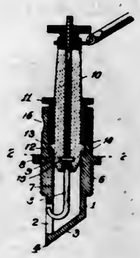
REISSUES.

14,948. BANANA HEATER AND RIPENER. ALBERT LESLIE FRANKEBERGER, Bloomington, Ill., assignor to Illinois Specialty Manufacturing Company, McLean county, Ill., a Corporation. Filed Oct. 26, 1918. Serial No. 259,873. Original No. 1,232,270, dated July 3, 1917, Serial No. 99,183, filed May 22, 1916. 6 Claims. (Cl. 126—85.)



1. A banana heater and ripener, comprising a chamber entirely open at the bottom thereof and provided with light and heat burners, a door communicating with said chamber and a comparatively thin flat flue extending vertically and having a horizontal discharge upper end, the front wall sloping from the heating chamber of the flue, but having transparent means therein for transmitting light from the burners within the heating chamber, and brackets attached to the vertical flue for fastening the heater upon the side wall of a room intermediate of the floor and ceiling.

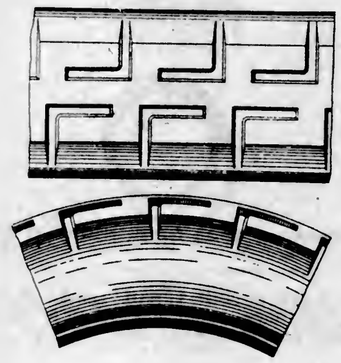
14,949. SPARK-PLUG. ALEXANDER JOSEPH PERRON, Sparta, Wis. Filed June 11, 1920. Serial No. 388,344. Original No. 1,308,107, dated July 1, 1919, Serial No. 249,888, filed Aug. 14, 1918. 8 Claims. (Cl. 123—169.)



1. A spark plug comprising a shell having an annular wall with a hole in its side and a closed bottom and substantially closed except for said hole to exclude substances from the interior of the shell, and a central electrode contained in and insulated from said shell, having a terminal to form a spark gap between the shell and the electrode.

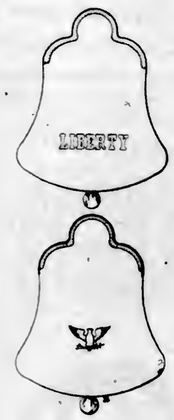
DESIGNS.

56,260. ELASTIC VEHICLE-TIRE. JOHN M. ALDERFER, Akron, Ohio. Filed Mar. 25, 1920. Serial No. 368,759. Term of patent 14 years.



The ornamental design for an elastic vehicle tire as shown.

56,261. HANDBAG OR SIMILAR ARTICLE. JOSEPH FREDRICK WRIGHT, Cincinnati, Ohio. Filed Sept. 18, 1919. Serial No. 324,703. Term of patent 3½ years.



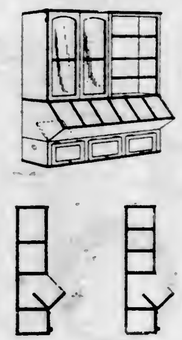
The ornamental design for a handbag or similar article as shown.

56,262. INSULATOR. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Nov. 14, 1919. Serial No. 338,121. Term of patent 14 years.



The ornamental design for an insulator, as shown.

56,263. HELP-SELF COUNTER AND DISPLAY-CABINET. WILLIAM J. BAILEY, Cleveland, Ohio. Filed Aug. 7, 1919. Serial No. 315,995. Term of patent 14 years.



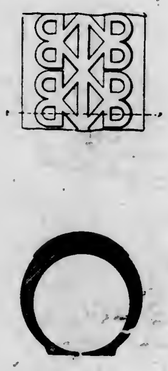
The ornamental design for a help self counter and display cabinet substantially as herein shown.

56,264. TALCUM-POWDER BOX. FRANCIS X. BECKMAN, New York, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed May 20, 1920. Serial No. 382,986. Term of patent 14 years.



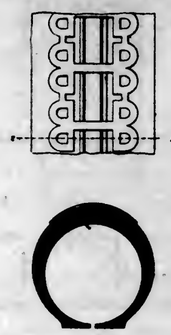
The ornamental design for a talcum powder box, as shown.

56,265. ELASTIC-TIRE TREAD. EDGAR O. BLEKRE, Sioux City, Iowa. Filed Mar. 26, 1920. Serial No. 369,088. Term of patent 14 years.



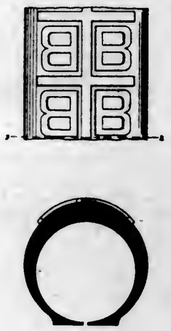
The ornamental design for an elastic tire tread as shown.

56,266. ELASTIC-TIRE TREAD. EDGAR O. BLEKRE, Sioux City, Iowa. Filed Mar. 26, 1920. Serial No. 369,089. Term of patent 14 years.



The ornamental design for an elastic tire tread as shown.

56,267. ELASTIC-TIRE TREAD. EDGAR O. BLEKRE, Sioux City, Iowa. Filed Mar. 26, 1920. Serial No. 369,090. Term of patent 14 years.



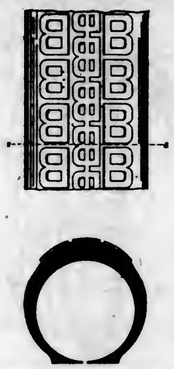
The ornamental design for an elastic tire tread as shown.

56,268. ELASTIC-TIRE TREAD. EDGAR O. BLEKRE, Sioux City, Iowa. Filed Mar. 26, 1920. Serial No. 369,091. Term of patent 14 years.



The ornamental design for an elastic tire tread as shown.

56,269. ELASTIC-TIRE TREAD. EDGAR O. BLEKRE, Sioux City, Iowa. Filed Mar. 26, 1920. Serial No. 369,092. Term of patent 14 years.



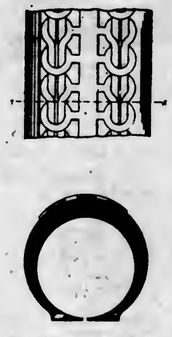
The ornamental design for an elastic tire tread as shown.

56,270. ELASTIC-TIRE TREAD. EDGAR O. BLEKRE, Sioux City, Iowa. Filed Mar. 26, 1920. Serial No. 369,094. Term of patent 14 years.



The ornamental design for an elastic tire tread as shown.

56,271. ELASTIC-TIRE TREAD. EDGAR O. BLEKRE, Sioux City, Iowa. Filed Mar. 26, 1920. Serial No. 369,096. Term of patent 14 years.



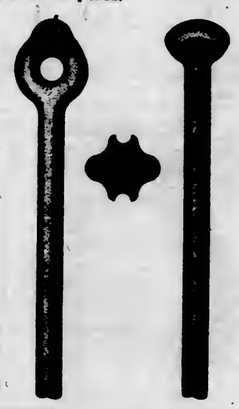
The ornamental design for an elastic tire tread as shown.

56,272. BOWL. SAUL BLICKMAN, New York, N. Y., assignor to Sophia Blickman, Brooklyn, N. Y. Filed July 31, 1920. Serial No. 400,401. Term of patent 3½ years.



The ornamental design for a bowl as shown.

56,273. ANCHOR-ROD EYE. ALBERT B. CHANCE, Centralia, Mo. Filed Dec. 29, 1919. Serial No. 348,186. Term of patent 14 years.



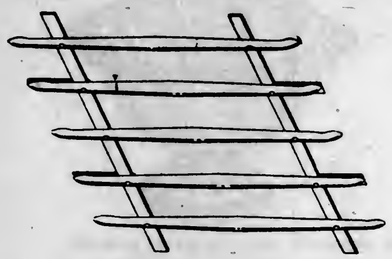
The original design for an anchor rod eye substantially as shown and described.

56,274. TALCUM-TIN. MARTHA HALOWELL CONNOR, Baltimore, Md., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed June 21, 1920. Serial No. 390,659. Term of patent 14 years.



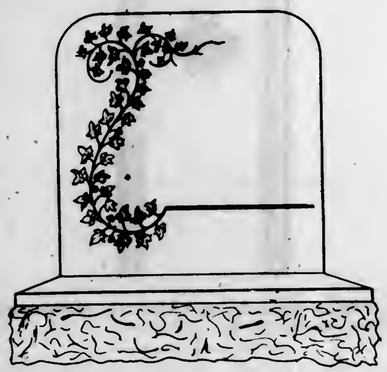
The ornamental design for a talcum tin, as shown.

56,275. GUARD FOR RADIATORS OF MOTOR-VEHICLES. EDWARD T. CURRAN, Detroit, Mich. Filed June 9, 1920. Serial No. 387,753. Term of patent 14 years.



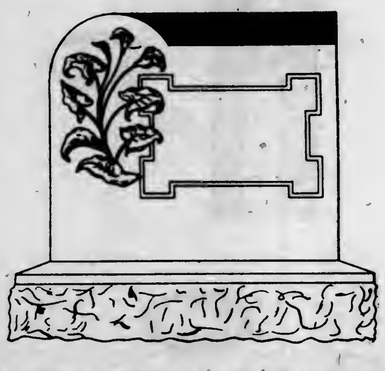
The ornamental design for a guard for radiators of motor vehicles, as shown.

56,276. TOMBSTONE. GEORGE F. EISENBROWN, Reading, Pa. Filed Apr. 6, 1920. Serial No. 371,768. Term of patent 3½ years.



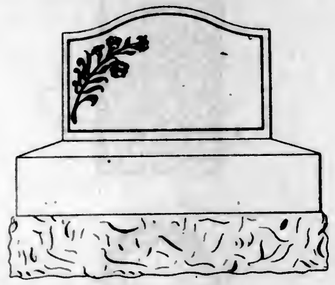
The ornamental design for a tombstone as shown.

56,277. TOMBSTONE. GEORGE F. EISENBROWN, Reading, Pa. Filed Apr. 6, 1920. Serial No. 371,769. Term of patent 3½ years.



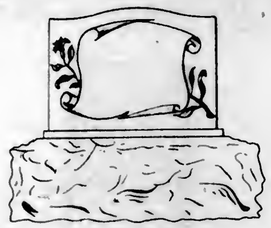
The ornamental design for a tombstone as shown.

56,278. TOMBSTONE. GEORGE F. EISENBROWN, Reading, Pa. Filed Apr. 6, 1920. Serial No. 371,770. Term of patent 7 years.



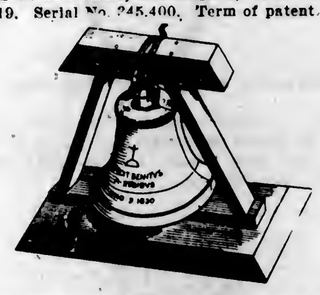
The ornamental design for a tombstone as shown.

56,279. TOMBSTONE. GEORGE F. EISENBROWN, Reading, Pa. Filed Apr. 6, 1920. Serial No. 371,771. Term of patent 7 years.



The ornamental design for a tombstone as shown.

56,280. TABLE-BELL. ARMITAGE S. C. FORBES and HARRYE R. P. FORBES, Los Angeles, Calif. Filed Dec. 16, 1919. Serial No. 345,400. Term of patent 14 years.



The ornamental design for a table bell, as shown.

56,281. KEY-RING HOLDER. ABRAHAM F. HABER, Brooklyn, N. Y. Filed June 17, 1920. Serial No. 389,769. Term of patent 7 years.



The ornamental design for a key ring holder, as shown.

56,282. TIRE-CASING. ROBERT IRDELL, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 26, 1920. Serial No. 354,268. Term of patent 14 years.



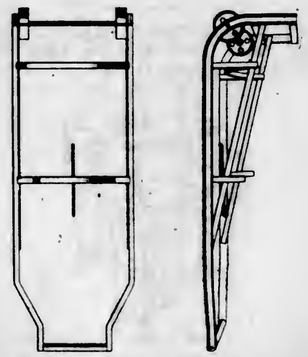
The ornamental design for a tire casing as shown.

56,283. RAZOR. HENRY H. JOHNSON, Oak Park, Ill., assignor to Collins Safety Razor Company, Chicago, Ill., a Corporation of South Dakota. Filed Mar. 24, 1920. Serial No. 368,417. Term of patent 14 years.



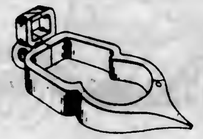
The ornamental design for a razor as shown.

56,284. BARREL-TRUCK. THOMAS E. JORDAN, Malden, Mass. Filed June 12, 1920. Serial No. 388,648. Term of patent 14 years.



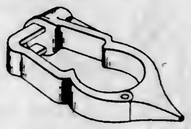
The ornamental design for a barrel truck, as shown.

56,285. VEHICLE-WHEEL CHOCK. FORREST M. KESTON, Detroit, Mich. Filed Apr. 23, 1920. Serial No. 376,149. Term of patent 14 years.



The design for a vehicle wheel chock as shown in the figure of the drawing.

56,286. VEHICLE-CHOCK. FORREST M. KESTON, Detroit, Mich. Filed Apr. 23, 1920. Serial No. 376,150. Term of patent 14 years.



A design for a vehicle wheel chock, as shown in the figure of the drawing.

56,287. PHONOGRAPH-CABINET. TORKEL KNUDSON, Minneapolis, Minn. Filed Apr. 19, 1920. Serial No. 375,177. Term of patent 14 years.



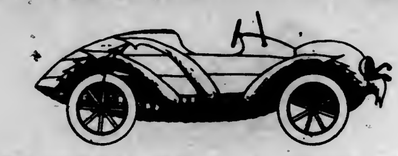
The ornamental design for a phonograph cabinet, as shown.

56,288. BICYCLE MUD-GUARD. EDWARD JULIUS LONN, Laporte, Ind., assignor to Great Western Manufacturing Co., Laporte, Ind., a Corporation of Indiana. Filed Jan. 29, 1920. Serial No. 354,941. Term of patent 14 years.



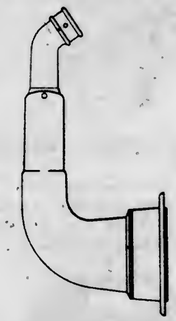
The ornamental design for a bicycle mud guard, as shown.

56,289. AUTOMOBILE-BODY. HARRY J. LOZIER, Spokane, Wash. Filed July 28, 1920. Serial No. 399,632. Term of patent 14 years.



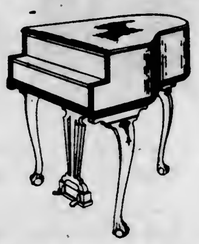
The ornamental design for an automobile body as shown.

56,290. TONE-ARM FOR PHONOGRAPHS. HENRY LUBE, College Point, N. Y. Filed Jan. 3, 1920. Serial No. 349,337. Term of patent 3½ years.



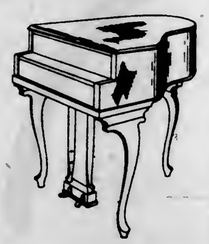
The ornamental design for a tone arm for phonographs as shown.

56,291. TALKING-MACHINE. EMERY H. MCCONNELL, Memphis, Tenn. Filed June 12, 1920. Serial No. 388,631. Term of patent 14 years.



The ornamental design for a talking machine, as shown.

56,292. TALKING-MACHINE. EMERY H. MCCONNELL, Memphis, Tenn. Filed June 12, 1920. Serial No. 388,632. Term of patent 14 years.



The ornamental design for a talking machine, as shown.

56,293. TALKING-MACHINE. EMERY H. MCCONNELL, Memphis, Tenn. Filed June 12, 1920. Serial No. 388,633. Term of patent 14 years.



The ornamental design for a talking machine, as shown.

56,294. TALKING-MACHINE. EMERY H. MCCONNELL, Memphis, Tenn. Filed June 12, 1920. Serial No. 388,634. Term of patent 14 years.



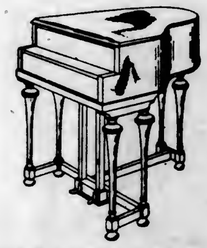
The ornamental design for a talking machine, as shown.

56,295. TALKING-MACHINE. EMERY H. MCCONNELL, Memphis, Tenn. Filed June 12, 1920. Serial No. 388,635. Term of patent 14 years.



The ornamental design for a talking machine, as shown.

56,296. TALKING-MACHINE. EMERY H. MCCONNELL, Memphis, Tenn. Filed June 12, 1920. Serial No. 388,636. Term of patent 14 years.



The ornamental design for a talking machine, as shown.

56,297. TALKING-MACHINE. EMERY H. MCCONNELL, Memphis, Tenn. Filed June 12, 1920. Serial No. 388,637. Term of patent 14 years.



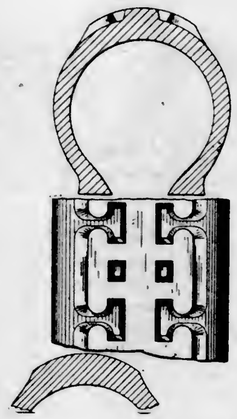
The ornamental design for a talking machine, as shown.

56,298. TALKING-MACHINE. EMERY H. MCCONNELL, Memphis, Tenn. Filed June 12, 1920. Serial No. 388,638. Term of patent 14 years.



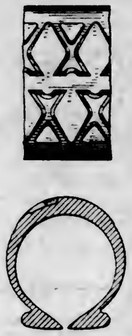
The ornamental design for a talking machine, as shown.

56,299. TIRE-TREAD. JOHN C. MCLEAN, Lakewood, Ohio, assignor to The McLean Tire and Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 24, 1919. Serial No. 333,131. Term of patent 14 years.



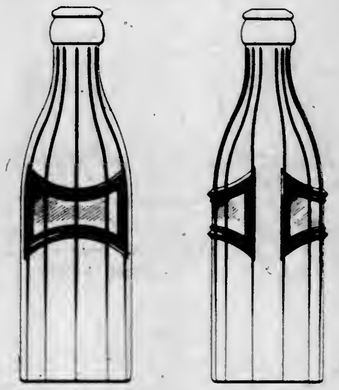
The ornamental design for a tire tread substantially as shown.

56,300. TIRE. JOHN C. MCLEAN, Cleveland, Ohio, assignor to The McLean Tire & Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 19, 1920. Serial No. 367,211. Term of patent 14 years.



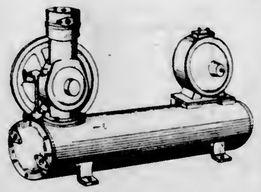
The ornamental design for a tire substantially as shown.

56,301. BOTTLE. HARRY R. NICHOLSON, Baltimore, Md., assignor to The Ver-Vac Company, Baltimore, Md., a Corporation of Maryland. Filed May 24, 1920. Serial No. 383,996. Term of patent 14 years.



The ornamental design for a bottle, as shown.

56,302. CONDENSER AND MOTOR AND COMPRESSOR BASE. EDWIN OLSEN, Milwaukee, Wis., assignor, by mesne assignments, to Milwaukee Ice Machine Company, Milwaukee, Wis., a Corporation. Filed Dec. 1, 1917. Serial No. 204,987. Term of patent 14 years.



The ornamental design for a condenser and motor and compressor base, as shown.

56,303. BOLT. JOSEPH F. O'REILLY, Oakland, Calif. Filed Jan. 13, 1920. Serial No. 351,257. Term of patent 3½ years.



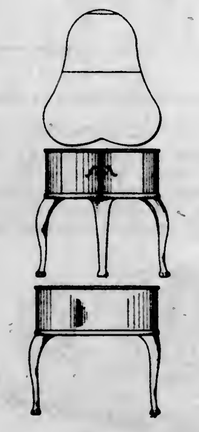
The ornamental design for a bolt, substantially as shown and described.

56,304. BOLT. JOSEPH F. O'REILLY, Oakland, Calif. Filed Jan. 13, 1920. Serial No. 351,258. Term of patent 3½ years.



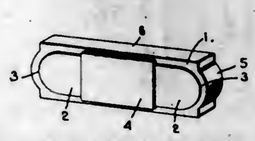
The ornamental design for a bolt, substantially as shown and described.

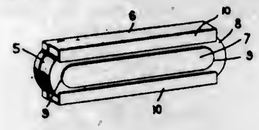
56,305. PHONOGRAPH-CASING. CARL J. PEARSON and SIGRID L. M. PEARSON, Chicago, Ill. Filed May 14, 1920. Serial No. 381,481. Term of patent 14 years.



The ornamental design for a phonograph casing, as shown

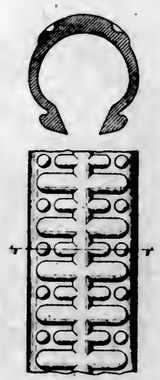
56,306. BOX. EDWIN B. PHILIPS, Stratford, Conn. Filed Apr. 21, 1920. Serial No. 375,635. Term of patent 14 years.





The ornamental design for a box as shown and described.

56,307. PNEUMATIC TIRE. ROBERT M. PIERSON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 21, 1919. Serial No. 305,907. Term of patent 14 years.



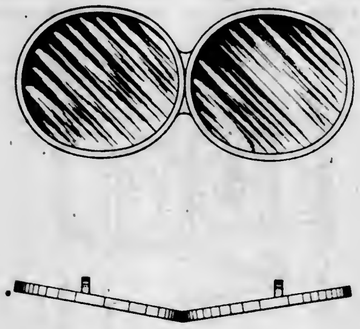
The ornamental design for a pneumatic tire as shown.

56,308. CONFECTIONERY BOUQUET. ADELAIDE M. PORTER, Greenwich, Conn., assignor to Huyler's Inc. New York, N. Y., a Corporation of New York. Filed Apr. 9, 1920. Serial No. 372,681. Term of patent 14 years.



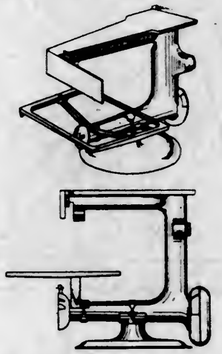
The ornamental design for a confectionery bouquet, substantially as shown.

56,309. REAR-SIGHT MIRROR FOR MOTOR-VEHICLES. FRANK W. REES, Seattle, Wash., assignor to Sees-All Manufacturing Company, Seattle, Wash. Filed June 30, 1920. Serial No. 393,192. Term of patent 14 years.



The ornamental design for a rear sight mirror for motor vehicles as shown.

56,310. BUNDLE-TIER-MACHINE FRAME. ALBERT H. SAXTON and JOSEPH J. BACHMAYER, Blissfield, Mich., assignors to National Bundle Tyer Company, Blissfield, Mich., a Corporation of Michigan. Filed Jan. 30, 1919. Serial No. 274,143. Term of patent 7 years.



The ornamental design for a bundle tier machine frame, substantially as shown.

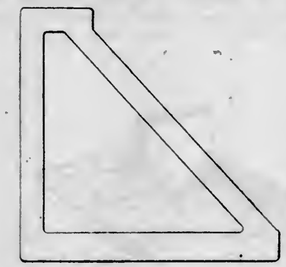
56,311. POURING-SPOUT FOR CANS. HERMAN L. STRONGSON, Brooklyn, N. Y., assignor to Loeb-Strongson Corp., New York, N. Y., a Corporation of New York. Filed Feb. 6, 1920. Serial No. 356,743. Term of patent 7 years.





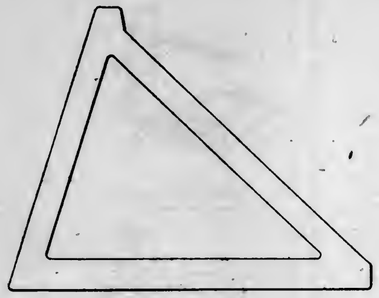
The ornamental design for a pouring spout for cans, as shown.

56,312. AUTOMOBILE SIDE CURTAIN. RALPH K. THOMSON, Sioux Falls, S. D. Filed June 29, 1920. Serial No. 392,889. Term of patent 14 years.



The ornamental design for an automobile side curtain, as shown.

56,313. AUTOMOBILE SIDE CURTAIN. RALPH K. THOMSON, Sioux Falls, S. D. Filed June 29, 1920. Serial No. 392,890. Term of patent 14 years.



The ornamental design for an automobile side curtain, as shown.

56,314. JEWELRY-HOLDER. PETER VIGGIANO, Shinnston, W. Va. Filed June 17, 1920. Serial No. 389,771. Term of patent 14 years.



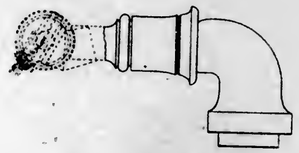
The ornamental design for a jewelry holder substantially as shown.

56,315. CULINARY FIXTURE. WILLARD R. WALKER, Syracuse, N. Y., assignor to Walker Brothers Company, Syracuse, N. Y., a Corporation of New York. Filed Apr. 21, 1919. Serial No. 291,768. Term of patent 7 years.



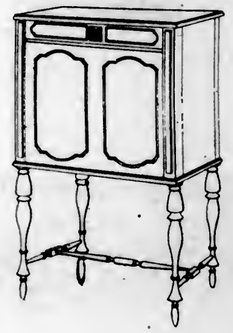
The ornamental design for a culinary fixture as shown.

56,316. TONE-ARM FOR TALKING-MACHINES. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Oct. 4, 1918. Serial No. 256,907. Term of patent 14 years.



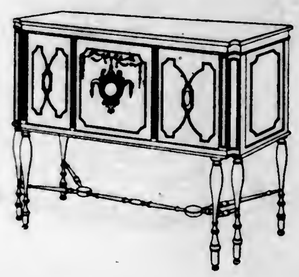
The ornamental design for a tone-arm for talking machines, substantially as shown.

56,317. PHONOGRAPH-CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,014. Term of patent 14 years.



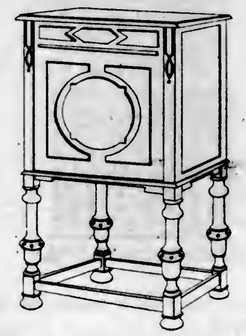
The ornamental design for a phonograph cabinet, substantially as shown.

56,318. PHONOGRAPH-CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,015. Term of patent 14 years.



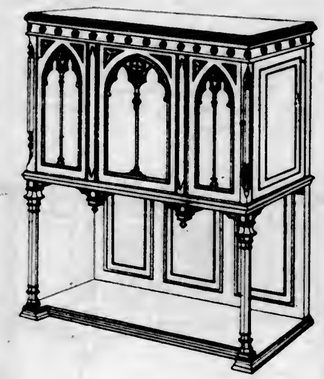
The ornamental design for a phonograph cabinet, substantially as shown.

56,319. PHONOGRAPH-CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,016. Term of patent 14 years.



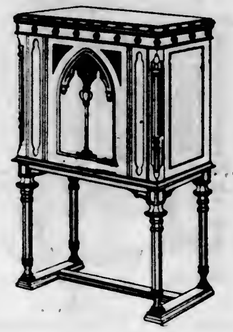
The ornamental design for a phonograph cabinet, substantially as shown.

56,320. PHONOGRAPH-CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,017. Term of patent 14 years.



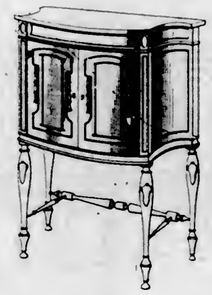
The ornamental design for a phonograph cabinet, substantially as shown.

56,321. PHONOGRAPH-CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,018. Term of patent 14 years.



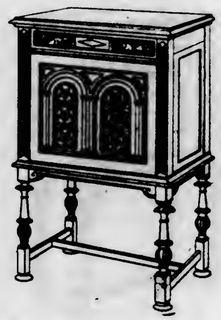
The ornamental design for a phonograph cabinet, substantially as shown.

56,322. PHONOGRAPH-CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,019. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

56,323. PHONOGRAPH - CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,020. Term of patent 14 years.



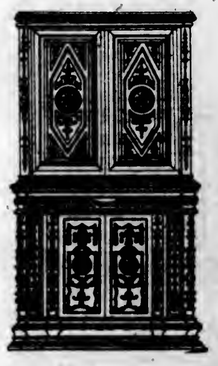
The ornamental design for a phonograph cabinet, substantially as shown.

56,324. PHONOGRAPH - CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,021. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

56,325. PHONOGRAPH - CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,022. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

56,326. PHONOGRAPH - CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,023. Term of patent 14 years.



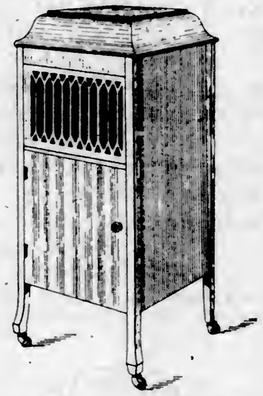
The ornamental design for a phonograph cabinet, substantially as shown.

56,327. PHONOGRAPH - CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed June 14, 1920. Serial No. 389,024. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

56,328. PHONOGRAPH - CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Nov. 20, 1918. Serial No. 263,425. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

56,329. PHONOGRAPH - CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Nov. 20, 1918. Serial No. 263,427. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 14, 1920.

[PUBLISHED SEPTEMBER 15, 1920.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (h) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 107,222. (CLASS 33. GLASSWARE.) STEWART-WARNER SPEEDOMETER CORP., Chicago, Ill. Filed Nov. 7, 1917.

Stewart

The trade-mark is a facsimile of the surname of the signature of John K. Stewart, the founder and first president of said corporation.

Particular description of goods.—Light-Diffusers, Commercially Known as Diffusing-Bowls, Made of Glass.

Claims use since Sept. 22, 1917.

Ser. No. 110,278. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) KELLERIT-SCHLAUCH-GESELLSCHAFT m. b. H., Vienna, Austria. Filed Apr. 17, 1918.

KELLERIT

Particular description of goods.—Flexible Paper Tubes—Namely, Gas-Tubes, Air-Tubes, and Vacuum-Tubes.

Claims use since June 15, 1917.

Ser. No. 111,725. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE CANNING CO., Eastport, and North Lubec, Me. Filed June 21, 1918.

SUNRAY

Particular description of goods.—Sardines.

Claims use since Sept. 21, 1916.

Ser. No. 112,295. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) E. I. DU PONT DE NEMOURS & Co., Wilmington, Del., and New York, N. Y. Filed July 24, 1918. Under ten-year proviso.

BECKTON WHITE

Particular description of goods.—Lithopone.

Claims use since 1892.

Ser. No. 114,769. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ORBIS PRODUCTS TRADING CO. INC., New York, N. Y. Filed December 21, 1918.

O.P.T. CO. INC.

Particular description of goods.—Gum-Arabic, Gum-Tragacanth, Perfumery, Essential Oils, Thymol, Menthol, Oxalic Acid, Starch, and Bay-Rum.

Claims use since Sept. 1, 1918.

Ser. No. 115,641. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK H. LOCKYER SUPPLY CO., LIMITED, Liverpool, England. Filed Feb. 5, 1919.

Spic-Erbo

Particular description of goods.—Dried Herbs for Seasoning Edible Substances.

Claims use since the 7th day of February, 1918.

Ser. No. 115,899. (CLASS 39. CLOTHING.) I. BLYN & SONS, INC., New York, N. Y. Filed February 17, 1919.

The Blyn Red-Tonic

Particular description of goods.—Shoes for Men, Women, and Children, Made of Leather, of Cloth, and of Part Leather and Part Cloth, and All Containing Such other Materials as are Ordinarily and Customarily Necessary and Used in the Construction of Ordinary Shoes Made of Leather or of Cloth, for Wear by Men, Women, and Children.

Claims use since Jan. 2, 1919.

Ser. No. 117,477. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLYDE BROOKS, Columbus, Ohio. Filed Apr. 15, 1919.



Particular description of goods.—A Protein Substance, said Substance Being Derived from Blood by a Process of Treatment Thereof and Being Administered to the Patient as a Medicine for the Purpose of Killing Disease Germs and Establishing a Condition of Immunization in the Body.

Claims use since Mar. 10, 1919.

Ser. No. 118,294. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDGAR O. CHALLENGER, New York, N. Y. Filed May 9, 1919.

WARRIOR

Particular description of goods.—Kansas Hard-Wheat Patent Flour.

Claims use since Sept. 7, 1910.

Ser. No. 118,830. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) EMERSON DRUG COMPANY, Baltimore, Md. Filed May 23, 1919.



The trade-mark shown in the accompanying drawing, the oval border and band running across the greatest width of the oval figure being of a light-green color. No claim is made for any of the printed matter shown in the drawing, except the word "Edco."

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverage, Either Plain or Carbonated, and Sold as a Soft Drink.

Claims use since May 13, 1919.

Ser. No. 119,619. (CLASS 32. FURNITURE AND UPHOLSTERY.) "U-SAVE-IT" STORES ASSOCIATION, INC., Birmingham, Ala. Filed June 14, 1919.

U-SAVE-IT

Particular description of goods.—Wooden Counters, Shelving, and Wood and Glass Show-Cases.

Claims use since May 26, 1919.

Ser. No. 120,089. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOAL'S ROLLS CORPORATION, New York, N. Y. Filed June 30, 1919.



Particular description of goods.—Medicated Fruit Usable as a Laxative and Purgative.

Claims use since about December, 1916.

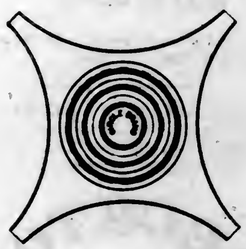
Ser. No. 120,934. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERTHA H. SMITH, Los Angeles, Calif. Filed July 25, 1919.

FRECKLE-OFF

Particular description of goods.—Skin-Ointment.

Claims use since July 21, 1915.

Ser. No. 122,154. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHICAGO METALLIC MANUFACTURING CO., Chicago, Ill. Filed Aug. 30, 1919.



The word "Brand" and the outside surrounding figure in the trade-mark are hereby disclaimed, except as used in connection with the other features of the mark shown in the drawing.

Particular description of goods.—Muffin-Pans.

Claims use since the early part of September, 1918.

Ser. No. 122,459. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) BOSTON BELTING CORPORATION, Boston, Mass. Filed Sept. 9, 1919. Under ten-year proviso.



Particular description of goods.—Rubber and Rubber-Composition Belting, Hose, and Packing.

Claims use since 1889.

Ser. No. 122,617. (CLASS 45. BEVERAGES, NON-ALCOHOLIC. TWIN CITY EXTRACT CO., Minneapolis, Minn. Filed Sept. 12, 1919.

FRUITINA

Particular description of goods.—Substantially Non-Alcoholic Fruit-Juices Containing Not More Than One-Tenth of One Per Cent. Alcohol in Their Undiluted Form—to-wit, Raspberry, Loganberry, Strawberry, Blackberry, Concord Grape, and Wild Cherry.

Claims use since on or about Feb. 1, 1919.

Ser. No. 122,681. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE BEE BEE CONFECTION COMPANY, Dayton, Ohio. Filed Sept. 15, 1919.

FOS-FATE

No claim is made to the word "Phosphate" in the usual or normal spelling of same apart from the mark shown in the drawing.

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages, Sold as Soft Drinks.

Claims use since about Mar. 1, 1918.

Ser. No. 123,145. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNGERER & COMPANY, INC., New York, N. Y. Filed Sept. 25, 1919.

FLORESSENCE

Particular description of goods.—Flower-Extraction Products Useful for Imparting Scent to Toilet Preparations.

Claims use since 1900.

Ser. No. 124,123. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FANNIE S. SPITZ, Albuquerque, N. Mex. Filed Oct. 23, 1919.



No exclusive claim is made for the words "New Mexico Shelled Piñon Nuts, Machine Shelled, Machine Separated, Fannie S. Spitz, Main Office 323 North Tenth Street, Albuquerque, New Mexico," or the word "Product" after "Sunshine" apart from the environment illustrated in the mark.

Particular description of goods.—Shelled, Raw, Roasted, and Salted Piñon-Nuts.

Claims use since Aug. 31, 1919.

Ser. No. 125,779. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HIGHWAY MOTORS CO., Chicago, Ill. Filed Dec. 10, 1919.

HIGHWAY KNIGHT

Particular description of goods.—Motor-Trucks.

Claims use since May, 1919.

Ser. No. 125,891. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. M. KLEMM & SON, Winter Haven, Fla. Filed Dec. 12, 1919.



No claim is made to the name "A. M. Klemm & Son, Growers & Shippers, Winter Haven, Florida" apart from the other features of the mark shown in the drawing. The picture of the girl shown on the drawing is fanciful.

Particular description of goods.—Fresh Citrus Fruit.

Claims use since Dec. 1, 1919.

Ser. No. 125,904. (CLASS 15. OILS AND GREASES.) NOURSE OIL COMPANY, Rosedale, Kans., and Kansas City, Mo. Filed Dec. 12, 1919.



No claim being made to the word "Brands" apart from the mark shown.

Particular description of goods.—Lubricating-oils.

Claims use since Jan. 1, 1915.

Ser. No. 126,047. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MEDCO COMPANY, Dayton, Ohio. Filed Dec. 15, 1919.

BUFNOT

Particular description of goods.—Finger-nail polish.

Claims use since the 6th day of November, 1919.

Ser. No. 126,117. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FAIRFIELD CANNING COMPANY, Chillicothe, Ohio. Filed Dec. 16, 1919.



The picture being fanciful.

Particular description of goods.—Canned Vegetables.

Claims use since Aug. 23, 1919.

Ser. No. 126,127. (CLASS 12. CONSTRUCTION MATERIALS.) INTERNATIONAL CORK COMPANY, Brooklyn, N. Y. Filed Dec. 16, 1919.

RE-LY-ON

The word "Re-ly-on."

Particular description of goods.—Blocks and Floor-Tiling Made of Cork; Heat-Insulating Materials in the Form of Bricks, Boards, Blocks, Slabs Made of Cork, and Cork Machinery Insulation for Deadening the Noise of Fans, Presses, and Motors.

Claims use since July 10, 1919.

Ser. No. 126,198. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THEODORE G. REMSCHEL, Chicago, Ill. Filed Dec. 17, 1919.

"Thrift"
A Delicious Nourishing Food

No claim being made to the words "A Delicious Nourishing Food" except in combination with the mark as shown.

Particular description of goods.—Milk Powder.

Claims use since Aug. 31, 1918.

Ser. No. 126,340. (CLASS 39. CLOTHING.) THE STRONG, KENNARD & NUTT COMPANY, Cleveland, Ohio. Filed Dec. 18, 1919.

PROTEXAL

Particular description of goods.—Protective and Safety Devices for Workers and others—Namely, Protective Head-Gear, Sand-Blast Helmets, Dust-Hoods, Foundry-Gloves, Leather, Rubber, Asbestos, Fireproofed, Waterproofed, and Acid-Proofed Gloves, Leggings, and Clothing.

Claims use since December, 1917.

Ser. No. 126,472. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALLEN HUNT, Crooksville, Ohio. Filed Dec. 26, 1919.

Tarzan

Particular description of goods.—A Medical Preparation Used in the Treatment of Hog-Cholera.

Claims use since Nov. 1, 1919.

Ser. No. 126,687. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FARM EQUIPMENT CO., Baltimore, Md. Filed Dec. 31, 1919.

SECURO

Particular description of goods.—Belting—Namely, Endless and Long-Length Belts of Canvas or Similar Textile Fabric Coated with Rubber.

Claims use since Jan. 1, 1919.

Ser. No. 126,717. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CREMINT CO., New York, N. Y. Filed Jan. 2, 1920.

CREMINT PEP-TASTIES

Particular description of goods.—Packages of Candy—Namely, Mints.

Claims use since May 14, 1919.

Ser. No. 127,472. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) FABRIC BELT & LACE CO., La Crosse, Wis. Filed Jan. 22, 1920.



No claim is made to the representation of a belt and pulley aside from the mark shown, the letters "N S" appearing in red and the background also appearing in red.

Particular description of goods.—Canvas Belting and Belt-Lacing.

Claims use since Oct. 1, 1919.

Ser. No. 128,265. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CONSOLIDATED BELTING COMPANY, Philadelphia, Pa. Filed Feb. 11, 1920.



Particular description of goods.—Leather Belting.

Claims use since December, 1913.

Ser. No. 128,311. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ABBOTT LABORATORIES, Chicago, Ill. Filed Feb. 12, 1920.



Particular description of goods.—Anesthetics.

Claims use since on or about Dec. 9, 1919.

Ser. No. 128,344. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANANIA FLORES, Marianna, Pa. Filed Feb. 13, 1920.



Mary Anania Flores

The photograph and autographic signature being that of Mary Anania Flores.

Particular description of goods.—Hair-Restorer.

Claims use since about Jan. 1, 1910.

Ser. No. 128,436. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GOLDEN SEAL LABORATORIES, INC., Parkersburg, W. Va. Filed Feb. 16, 1920.

Willo-Mint

The word "Mint" being disclaimed apart from the mark shown.

Particular description of goods.—A Preparation for the Treatment of Indigestion and Dyspepsia and the Ailments Resulting Therefrom.

Claims use since Dec. 8, 1919.

Ser. No. 128,466. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed Feb. 16, 1920.

LADY HAMILTON

Particular description of goods.—Combs and Button-Hooks Not Made of Precious Metal.

Claims use since Jan. 1, 1919.

Ser. No. 128,566. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARPE-PHILIPPI CO. INC., Gloucester City, N. J. Filed Feb. 18, 1920.

"S-P"

Particular description of goods.—Antiseptic Solution for Leucorrhea, Rheumatism, Neuritis, Gout, Inflamed Joints, Chilblains, Bunions, Boils, Carbuncles, Ivy and Oak Poisoning, Prickly Heat, Eczema, Itch, Tetter, Ringworm, Rash, Hives, Burns, Scalds, Cuts, Wounds, Bruises, Sprains, Mashed Toes or Fingers, Chafing, Bed-Sores, Chapped Lips and Hands, Rough or Chapped Skin, Pimples, and Blackheads.

Claims use since on or about Jan. 30, 1920.

Ser. No. 128,620. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RUSTOKUT COMPANY, Washington, D. C. Filed Feb. 19, 1920.

RUSTOKUT

Particular description of goods.—A Preparation for Removing Rust.

Claims use since Jan. 26, 1920.

Ser. No. 128,646. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUTOMATIC CLERK COMPANY, Newark, N. J. Filed Feb. 20, 1920.

CHUMS

Particular description of goods.—Chewing-Gum.

Claims use since July, 1919.

Ser. No. 128,803. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. H. SNYDER MED. CO., Jonesboro, Ark. Filed Feb. 24, 1920.



ANNIE BELLE

Particular description of goods.—A Lotion for Treating the Complexion.
Claims use since 1901.

Ser. No. 128,836. (CLASS 12. CONSTRUCTION MATERIALS.) ALBERT C. FISCHER, Chicago, Ill. Filed Feb. 24, 1920.

SERVICISED
LOOK FOR IT ON ALL PURCHASES

No claim is made for the words "Look for It on All Purchases."
Particular description of goods.—Composition Roofing, Asphalt Shingles, Asphalts, Wall-Board, Asbestos Roof-Cement, Paving-Joint, Slate-Surfaced Roofing, Building-Papers, Asbestos Paper for Pipe-Covering, Asbestos Paper for Insulating Purposes, Pipe-Covering, Asbestos Paper, Asbestos Millboard, Asbestos Pipe and Furnace-Pipe Covering.
Claims use since Dec. 1, 1915.

Ser. No. 128,873. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ACCOLITE MFG. CO., Newark, N. J. Filed Feb. 25, 1920.

ACCOLITE

Particular description of goods.—Buttons of all Kinds Except Those Made from Precious Metals.
Claims use since Jan. 20, 1920.

Ser. No. 128,888. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) FELICE GILARDINI, Turin, Italy. Filed Feb. 25, 1920.



No claim being made to the words "Cinghie Marca" apart from the mark as shown.
Particular description of goods.—Leather Belts.
Claims use since Dec. 12, 1917.

Ser. No. 128,902. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCRANTON DISTRIBUTING AND MFG. CO., Scranton, Pa. Filed Feb. 25, 1920.

RENOL

Particular description of goods.—Kidney and Bladder Stimulant.
Claims use since Dec. 19, 1919.

Ser. No. 128,904. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SOCIÉTÉ ANONYME DES ANCIENS ÉTABLISSEMENTS HOTCHKISS & CIE., St. Denis, France. Filed Feb. 25, 1920.

HOTCHKISS PARIS

Particular description of goods.—Automobiles Complete, Chassis of Automobiles, Radiators for Automobiles, Hoods for Automobiles, Clutches for Automobiles, Chain Speed-Gears and Boxes for Same for Automobiles, Axles for Automobiles, Mud-Guards for Automobiles, and Frames for Automobiles.
Claims use since 1903.

Ser. No. 128,967. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) INDIANA INDESTRUCTIBLE PAINT CO., Chicago, Ill. Filed Feb. 27, 1920.

SILK-TONE
"THE BEAUTIFUL" A FLAT WALL FINISH

No claim being made to the words "The Beautiful, A Floor Wall Finish" apart from the mark shown.
Particular description of goods.—A Flat Paint for Finishing Interior Walls, Ceilings, and Woodwork.
Claims use since Nov. 20, 1909.

Ser. No. 129,004. (CLASS 11. INKS AND INKING MATERIALS.) DE-FI MANUFACTURING COMPANY, New York, N. Y. Filed Feb. 28, 1920.

CONQUEROR

Particular description of goods.—Carbon-Paper and Typewriter-Ribbons.
Claims use since June 1, 1908.

Ser. No. 129,106. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 1, 1920.

TU-WAY

Particular description of goods.—Carriage-Cloth Made of Fabric and Rubber.
Claims use since Feb. 4, 1920.

Ser. No. 129,178. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONSTANCYA AGNES KALINSKA, Cleveland, Ohio. Filed Mar. 3, 1920.



Constancya Agnes Kalinska

The trade-mark shown in the accompanying drawing, including the portrait and autographic signature of the applicant.
Particular description of goods.—A Remedy for Debilities of Stomach, Headache, Lack of Appetite, and a Physic.
Claims use since about Jan. 1, 1920.

Ser. No. 129,197. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE UNITED STATES LEATHER COMPANY, New York, N. Y. Filed Mar. 3, 1920.



Particular description of goods.—Leather.
Claims use since 1893.

Ser. No. 129,220. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.

BOSTONIA

Particular description of goods.—Wicking Used for Packing Purposes, Sometimes Called Wick-Packing, Manufactured in Balls and Not in the Piece.
Claims use since June 1, 1909.

Ser. No. 129,221. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.

BALTIC

Particular description of goods.—Wicking Used for Packing Purposes, Sometimes Called Wick-Packing, Manufactured in Balls and Not in the Piece.
Claims use since June 1, 1909.

Ser. No. 129,231. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.

ZERO

Particular description of goods.—Wicking Used for Packing Purposes, Sometimes Called Wick-Packing, Manufactured in Balls and Not in the Piece.
Claims use since Jan. 2, 1920.

Ser. No. 129,263. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OTTO J. KOLAR, Chicago, Ill. Filed Mar. 5, 1920.



Particular description of goods.—A Perfume-Cream for Neutralizing Body-Odors.
Claims use since Jan. 30, 1920.

Ser. No. 129,596. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ILLINOIS BATTERY STEAMER CO., Peoria, Ill. Filed Mar. 12, 1920.

IBSCO

Particular description of goods.—Battery Steamers, Battery Steamers and Stills, Stills, Vises, Reamers, Wrenches, Boring-Drills, and Containers Known as Fire-Extinguishers.
Claims use since about July 15, 1919.

Ser. No. 129,618. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INOSUKE AKABA, Stockton, Calif. Filed Mar. 13, 1920.



The Japanese character included in the trade-mark means "Dai-Maru," which translated into English means "Large Circle."

Particular description of goods.—Rice.

Claims use since Feb. 1, 1919.

Ser. No. 129,626. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WILLIAM E. DODD, New York, N. Y. Filed Mar. 13, 1920.



Particular description of goods.—Silk, Velvet, and Cotton Ribbons Made Up in Cut Lengths.

Claims use since Dec. 15, 1919.

Ser. No. 129,752. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SPECIFIC REMEDY COMPANY, Cincinnati, Ohio. Filed Mar. 15, 1920.

Com-fee

Particular description of goods.—A Preparation for Bathing the Feet.

Claims use since Feb. 15, 1920.

Ser. No. 129,787. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LA RUE MEDICINE COMPANY, Los Angeles, Calif. Filed Mar. 16, 1920.



Particular description of goods.—A Liquid Composition for the Treatment of Kidney, Bladder, and Liver Diseases.

Claims use since Mar. 8, 1920.

Ser. No. 129,815. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VICTOR CLYDE SMEDLEY, Denver, Colo. Filed Mar. 16, 1920.

DR. R. J. GARDINIER'S
PULP
PRESERVER

No claim being made to the words "Pulp Preserver" apart from the mark shown.

Particular description of goods.—Preparation for Dental-Pulp Preserving and Capping.

Claims use since Dec. 19, 1919.

Ser. No. 129,820. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUSTAVE BERNARD, New York, N. Y. Filed Mar. 16, 1920.



Particular description of goods.—Tooth-Paste.

Claims use since December, 1919.

Ser. No. 129,945. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MISSOURI COBALT COMPANY, Fredericktown, Mo. Filed Mar. 19, 1920.



The word "Brand" being disclaimed apart from the mark shown in the drawing and the representation of the bird being shown in blue above and in orange underneath.

Particular description of goods.—Color Ingredients for Paints, Paint and Glaze Enamels, and the Like, Particularly Including Cobalt Oxid.

Claims use since about Aug. 1, 1919.

Ser. No. 130,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THAD WOODWARD, Lincoln, Nebr. Filed Mar. 20, 1920.

UP-DAD

Particular description of goods.—A Remedy Designed for the Treatment of Catarrh.

Claims use since May, 1918.

Ser. No. 130,264. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SAMUEL BLACKMAN, Philadelphia, Pa. Filed Mar. 27, 1920.

Carlton's

Particular description of goods.—Non-Alcoholic Fruit Punches Sold as a Soft Drink, Ginger-Ale, and Root-Beer.

Claims use since July 1, 1917.

Ser. No. 130,409. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JOSEPH CHESTER DAWSON, Lynn, Mass. Filed Mar. 31, 1920.

STEELAIRE

The word "Steelaire."

Particular description of goods.—Rubber Vehicle-Tires.

Claims use since Dec. 2, 1919.

Ser. No. 130,449. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDGAR W. SMITH, Indianapolis, Ind. Filed Mar. 31, 1920.

CLEAN SHINE

Particular description of goods.—Automobile and Furniture Polish.

Claims use since Mar. 27, 1920.

Ser. No. 130,463. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ALBERT J. ANDERSON, La Crosse, Wis. Filed Apr. 1, 1920.

CLAM-LOCK

Particular description of goods.—Trailer Coupler Attachments.

Claims use since Aug. 10, 1919.

Ser. No. 130,688. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JACOB M. STRICKLER, Kansas City, Mo. Filed Apr. 5, 1920.

Milo

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless, Soft-Drink Syrup Made of Extractives of Lime and Spearmint, Pure Cane or Beet Sugar, Water, and other Fruit Flavoring.

Claims use since July, 1919.

Ser. No. 130,721. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DELMORE MANUFACTURING CO., INC., New York, N. Y. Filed Apr. 6, 1920.

Delmore

Particular description of goods.—Light Motor Road-Vehicles for the Transportation of Passengers and Parcels, at Present Propelled by Gasolene-Engines.

Claims use since Aug. 2, 1918.

Ser. No. 130,884. (CLASS 33. GLASSWARE.) THOMAS B. DEWHURST, Lexington, Ky. Filed Apr. 9, 1920.

DEWFLECTOR

Particular description of goods.—Automobile-Headlight Lenses.

Claims use since December, 1915.

Ser. No. 130,925. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) F. A. PATRICK & Co., Duluth, Minn. Filed Apr. 9, 1920.

Patrick

The trade-mark consists of the surname "Patrick" in the form illustrated in the accompanying drawing, which shows a facsimile of the hand writing of Fred A. Patrick, who is the president of said corporation.

Particular description of goods.—Rubber Hose, Flexible Metallic Hose, Composition Hose Made of Rubber and Canvas without Reinforcement or Reinforced with Metallic Plating, on the Outside and without Jacket or Jacketed with Asbestos.

Claims use since Oct. 1, 1918.

Ser. No. 131,129. (CLASS 39. CLOTHING.) WILLIAM H. SHELP & COMPANY, New York, N. Y. Filed Apr. 14, 1920.

Cosette

Particular description of goods.—Underwear consisting of Union Suits, Shirts, Drawers, and Vests Made of Knitted and Also of Textile Material, for Men, Women, and Children.

Claims use since Jan. 20, 1920.

Ser. No. 131,310. (CLASS 39. CLOTHING.) COMFORT GARMENT COMPANY, Pittsburgh, Pa. Filed Apr. 19, 1920.



Applicant disclaims the word "Waist" apart from the mark shown on the drawing.

Particular description of goods.—Infants' Underwaists.

Claims use since Jan. 1, 1920.

Ser. No. 131,543. (CLASS 39. CLOTHING.) HUGH N. SMALTZ, Marion, Ind. Filed Apr. 23, 1920.

"Save a Sleeve"

Particular description of goods.—Fabric Gloves.
Claims use since June 1, 1919.

Ser. No. 131,583. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MONEY BACK LABORATORIES, INC., Oklahoma, Okla. Filed Apr. 24, 1920.

MONEY BACK

Particular description of goods.—Tube-Patches, Heavy-Casing Patches, and Patch Kits.
Claims use since Nov. 13, 1918.

Ser. No. 131,584. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MONEY BACK LABORATORIES, INC., Oklahoma, Okla. Filed Apr. 24, 1920.



No claim being made to the words "Tube Patch" and "Casing Patch" except in the form and association shown.
Particular description of goods.—Tube-Patches, Heavy-Casing Patches, and Patch Kits.
Claims use since December, 1918.

Ser. No. 131,585. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MONEY BACK LABORATORIES, INC., Oklahoma, Okla. Filed Apr. 24, 1920.

MONEY BACK



No claim being made to the words "Tube Patch" and "Casing Patch" except in the form and association shown.
Particular description of goods.—Tube-Patches, Heavy-Casing Patches, and Patch Kits.
Claims use since December, 1918.

Ser. No. 131,691. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMALGAMATED LEATHER COMPANIES, INC., Wilmington, Del., and New York, N. Y. Filed Apr. 27, 1920.

EB&C WHITE WASHABLE KID No 81 FITS ON THE FOOT LIKE A GLOVE ON THE HAND

No claim is herein made to the words "White Washable Kid" and "Fits on the Foot Like a Glove on the Hand" apart from the mark shown in the drawing.
Particular description of goods.—Leather.
Claims use since Mar. 16, 1920.

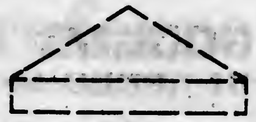
Ser. No. 131,754. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. SILZ, INC., New York, N. Y. Filed Apr. 28, 1920.

The applicant claims as its trade-mark the word "Ausico."

AUSICO

Particular description of goods.—Macaroni of All Kinds, Types, and Varieties, Raw, Cooked, Prepared; Cheeses of the Kind, Type, or Variety Known as Roquefort and Camembert, Whether Called by Such Names or by Any other Name; Orange and Grapefruit Marmalade, and Whether Canned, Put up in Jars, or Otherwise Specially Packed or Put Up.
Claims use since Dec. 21, 1919.

Ser. No. 131,768. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALLIED PACKERS, INCORPORATED, Chicago, Ill. Filed Apr. 29, 1920.



Particular description of goods.—Fresh Meats—Namely, Beef, Pork, Mutton, Poultry; Pickled and Cured Meats—Namely, Beef, Pork, Ham, Bacon; Canned Meats—Namely, Beef and Vegetables, Beefsteak and Onions, Beef Stew, Beef-Suet, Boiled Beef, Boned Chicken, Frankfurt Bratwurst, Brisket-Beef, Chilli-Con-Carne, Bologna-Style Sausage, Cooked Brains, Corn-Beef, Corn-Beef Hash, Deviled Meats, Dried Beef, Georgia-Style Hash, Hamburger Steak, Irish Stew, Deviled Ham, Lamb's Tongue, Liver and Bacon, Beef-Loaf, Chicken-Loaf, Ham-Loaf, Veal-Loaf, Luncheon-Sausage, Luncheon-Beef, Luncheon-Tongues, Minced Collops, Minced Steak, Oxford-Style Sausage, Ox-Tails, Ox-Tongues, Pigs' Feet, Plum-Pudding, Pork Sausage-Meat, Potted Meats, Minced Meat, Roast Beef, Roast-Beef Hash, Roast Mutton, Sauer-Kraut and Vienna-Style Sausage, Sausage-Meat, Sliced Bacon, Spaghetti, Meat and Chilli; Stewed Kidneys, Chicken-Tamales, Hot Tamales, Tripe, Vienna Style Sausage, Potted Ham, Deviled Ham, Potted Tongue; Lard, Sausage, Bologna, Mince-Meat, Butter, Eggs, and Cheese.
Claims use since Dec. 1, 1919.

Ser. No. 131,952. (CLASS 35. BELTING, HOSE, MACHINERY PACKING AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed May 3, 1920.

KOHINOOR

Particular description of goods.—Belts Made of Rubber Reinforced with Fabric.
Claims use since about May, 1918.

Ser. No. 131,958. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed May 3, 1920.

ELBON

Particular description of goods.—Hose Made of Rubber Reinforced with Fabric and Sheet-Packing, Having Rubber Incorporated Therein.
Claims use on packing since about November, 1912, and on hose since about October, 1917.

Ser. No. 131,959. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed May 3, 1920.

ELEVAY

Particular description of goods.—Elevator-Belts Made of Fabric Combined with Rubber.
Claims use since about October, 1917.

Ser. No. 131,964. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed May 3, 1920.

VOLUNTEER

Particular description of goods.—Sheet-Packing Made Wholly or Partly of Rubber.
Claims use since about April, 1912.

Ser. No. 132,200. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE POWERS MANUFACTURING COMPANY, Waterloo, Iowa. Filed May 8, 1920.

Norwegian

No claim is made to the geographical term "Norwegian" apart from the mark shown.
Particular description of goods.—Transmission-Linings.
Claims use since on or about Mar. 31, 1920.

Ser. No. 132,282. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ZONTA TIRE & RUBBER COMPANY, Sioux City, Iowa. Filed May 10, 1920.

ZONTA

Particular description of goods.—Fabric and Cord Tire-Casings and Inner Tubes.
Claims use since Apr. 1, 1920.

Ser. No. 132,479. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS. NATIONAL RING TRAVELER CO., Providence, R. I. Filed May 15, 1920.

FLINTARD

Particular description of goods.—Shoe and Clothing Buttons.
Claims use since Apr. 1, 1920.

Ser. No. 132,490. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONSTANTINE SCOURBY, New York, N. Y. Filed May 15, 1920.

APHRODITE

Particular description of goods.—Chocolates, Bonbons, and Candies.
Claims use since about May 1, 1920.

Ser. No. 132,626. (CLASS 39. CLOTHING.) J. R. BEATON CO. INC., New York, N. Y. Filed May 19, 1920.

BEATON

Particular description of goods.—Hosiery.
Claims use since May, 1914.

Ser. No. 132,660. (CLASS 45. BEVERAGES, NON-ALCOHOLIC. SEBASTIAN CLINTON WEBBER, Brinkley, Ark. Filed May 19, 1920.

No claim being made to the word "Cola" apart from the mark shown in the drawing.

Mexa-Cola

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Sept. 1, 1919.

Ser. No. 132,687. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) EXCELSIOR MOTOR MFG. & SUPPLY CO., Chicago, Ill. Filed May 20, 1920.

X

Particular description of goods.—Motorcycles and Bicycles.
Claims use since on or about Mar. 1, 1918.

Ser. No. 132,776. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DODGE, SWEENEY & CO., San Francisco, Calif. Filed May 22, 1920.

SUM-MOR

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, and Dried Fruits.
Claims use since Apr. 10, 1920.

Ser. No. 132,859. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GATES RUBBER COMPANY, Denver, Colo. Filed May 24, 1920.

VULCO-CURED TUBE

No claim being made to the words "Cured Tube" apart from the mark shown in the drawings.
Particular description of goods.—Belting, Hose, Machinery Packing, and Non-Metallic Tires.
Claims use since Nov. 22, 1919.

Ser. No. 132,918. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GOULDS MANUFACTURING CO., Seneca Falls, N. Y. Filed May 25, 1920.

GOULDS
HI-SPEED

Exclusive use of the words "High Speed" is disclaimed apart from the mark as shown.
Particular description of goods.—Power-Driven Water-Supply Pumps.
Claims use since Mar. 8, 1920.

Ser. No. 133,080. (CLASS 45. BEVERAGES, NON-ALCOHOLIC. CHESTER BEVERAGE CO., Chester, Pa. Filed May 29, 1920.

PENN BRAND

No claim is made for the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Root-Beer, Birch-Beer, Ginger-Ale, Lemon-Soda, Cream-Soda, and Sarsaparilla.
Claims use since about Mar. 1, 1920.

Ser. No. 133,166. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICO MILK PRODUCTS COMPANY, East Troy, Wis. Filed June 1, 1920.

"SUPER-CREAM"

The word "Cream" has been disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Evaporated Cream.
Claims use since Oct. 1, 1918.

Ser. No. 133,203. (CLASS 39. CLOTHING.) BENJAMIN CHIPMAN, Baltimore, Md. Filed June 3, 1920.

BSHIRTC

I make no claim to the word "Shirt" standing alone and apart from the mark shown.
Particular description of goods.—Men's Silk and Cotton Dress or Work Shirts.
Claims use since Nov. 1, 1918.

Ser. No. 133,258. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GUITERMAN, ROSENFELD & COMPANY, New York, N. Y. Filed June 4, 1920.

AUTOKRAT

Particular description of goods.—Mechanically-Operated Automobile-Horns.
Claims use since May 24, 1920.

Ser. No. 133,286. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY M. STEPHENS, Blevins, Ark. Filed June 4, 1920.

Preferred

Particular description of goods.—Cantaloups in Their Natural State.
Claims use since July 1, 1916.

Ser. No. 133,288. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SUN GLOSS POLISH CO., Woonsocket, R. I. Filed June 4, 1920.



Particular description of goods.—Furniture, Automobile, and Piano Polish.
Claims use since Oct. 1, 1919.

Ser. No. 133,294. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) R. F. CARR, Memphis, Tenn. Filed June 5, 1920.

PERMO

Particular description of goods.—Polishes for Automobiles, Furniture, and Other Painted and Varnished Surfaces.
Claims use since about Apr. 22, 1920.

Ser. No. 133,305. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HIDE LEATHER & BELTING CO., Indianapolis, Ind. Filed June 5, 1920.

HIDE LEATHER & BELTING CO.
EXTRA SHORT
ENGINE
LAP
INDIANAPOLIS

The words "Extra Short Engine Lap, Indianapolis" are hereby disclaimed apart from the mark as shown.
Particular description of goods.—Leather Belting.
Claims use since about 1905.

Ser. No. 133,309. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HIDE LEATHER & BELTING CO., Indianapolis, Ind. Filed June 5, 1920.

HIDE LEATHER & BELTING CO.
ADHESO
INDIANAPOLIS

The word "Indianapolis" is hereby disclaimed.
Particular description of goods.—Leather Belting.
Claims use since April, 1918.

Ser. No. 133,311. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HIDE LEATHER & BELTING CO., Indianapolis, Ind. Filed June 5, 1920.

HIDE LEATHER & BELTING CO.
SHORT LAP OAK TANNED
MACHINE
INDIANAPOLIS

The words "Machine, Short Lap, Oak Tanned, Indianapolis" are hereby disclaimed apart from the mark as shown.
Particular description of goods.—Leather Belting.
Claims use since January, 1912.

Ser. No. 133,312. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HIDE LEATHER & BELTING CO., Indianapolis, Ind. Filed June 5, 1920.

VeeSol

Particular description of goods.—Leather Belting.
Claims use since October, 1917.

Ser. No. 133,313. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HIDE LEATHER & BELTING CO., Indianapolis, Ind. Filed June 5, 1920.

VEE
FLEX

Particular description of goods.—Leather Belting.
Claims use since October, 1917.

Ser. No. 133,315. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HEALD MACHINE COMPANY, Worcester, Mass. Filed June 5, 1920.

HEALD

Particular description of goods.—Internal and Surface Grinding Machines.
Claims use since May 28, 1920.

Ser. No. 133,358. (CLASS 33. GLASSWARE.) THE KEARNS-GORSUCH BOTTLE COMPANY, Zanesville, Ohio. Filed June 7, 1920.

K-G

Particular description of goods.—Glass Bottles and Jars.
Claims use since May 1, 1920.

Ser. No. 133,394. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BALTIMORE BUTTERINE CO., Baltimore, Md. Filed June 8, 1920.

Silver Star

Particular description of goods.—Oleomargarin.
Claims use since Apr. 29, 1920.

Ser. No. 133,404. (CLASS 39. CLOTHING.) BESSIE DAMSEY, New York, N. Y. Filed June 8, 1920.

JUST A LITTLE DIFFERENT

BESSIE DAMSEY

Particular description of goods.—Nightgowns, Pajamas, Combinations, Chemises, Panties, Bloomers, Corset-Covers, Petticoats, Princess-Slips, Sacks, Boudoir-Caps, Garters, Kimonos, Tea-Gowns, Negligées, Breakfast-Coats, Wraps, and Gowns.
Claims use since about the fall of 1918.

Ser. No. 133,441. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE WILSON RUBBER COMPANY, Des Moines, Iowa. Filed June 8, 1920.

WILSON'S SLA PATCH

Particular description of goods.—Repair Shoes and Patches for Pneumatic Tires.
Claims use since Dec. 20, 1919.

Ser. No. 133,511. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHITNEY, SUMMERS AND SWIM, Modesto, Calif. Filed June 9, 1920.

W. S. S.

Particular description of goods.—Dried Fruits and Fresh Deciduous Fruits.
Claims use since Mar. 25, 1920.

Ser. No. 133,519. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CARTER CARBURETOR COMPANY, St. Louis, Mo. Filed June 10, 1920.

Carter

The word "Carter" being in the handwriting of Mr. C. O. Baxter, president of applicant corporation.
Particular description of goods.—Carbureters.
Claims use since Jan. 1, 1910.

Ser. No. 133,548. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MAGEE FURNACE COMPANY, INC., Boston, Mass. Filed June 10, 1920.

Por-cel-a

Particular description of goods.—Stoves and Ranges Burning Combustible Fuel and the Exterior Body Portions Thereof.
Claims use since May 22, 1920.

Ser. No. 133,550. (CLASS 37. PAPER AND STATIONERY.) MOUNTAIN MILL PAPER COMPANY, Lee, Mass. Filed June 10, 1920.

PURITY

Particular description of goods.—Grease-Proof Parchment-Paper.
Claims use since July 9, 1919.

Ser. No. 133,576. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FRANKLIN VALVELESS ENGINE COMPANY, Franklin, Pa. Filed June 11, 1920.

VALVELESS

The word "Valveless" is hereby disclaimed apart from the mark shown by the drawing. Color forms a characteristic of the trade-mark in the respect that the predominating color of the letters composing the word "Valveless" is red.
Particular description of goods.—Gas-Engines, Oil-Engines, Working Barrels for Oil-Well Pumps, Governors for Gas and Oil Engines, and Oil-Well Packers.
Claims use since Jan. 1, 1920.

Ser. No. 133,577. (CLASS 39. CLOTHING.) GERSON & GOODMAN, Philadelphia, Pa. Filed June 11, 1920.

RoMAR

Particular description of goods.—Men's Dress and Negligée Shirts.
Claims use since May 27, 1920.

Ser. No. 133,613. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAN VALLEY MILLS, Danville, Va. Filed June 12, 1920.

DAN RIVER

Particular description of goods.—Wheat-Flour.
Claims use since December, 1917.

Ser. No. 133,614. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAN VALLEY MILLS, Danville, Va. Filed June 12, 1920. Under ten-year proviso.

DAN VALLEY

Particular description of goods.—Wheat-Flour.
Claims use since Sept. 1, 1894.

Ser. No. 133,648. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ANIMATED ADVERTISING CORPORATION, Kansas City, Mo. Filed June 14, 1920.



Particular description of goods.—Mechanical Advertising-Signs.
Claims use since about Apr. 1, 1920.

Ser. No. 133,660. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) GOODWILL RUBBER CO. INC., New York, N. Y. Filed June 14, 1920.



The exclusive right to the use of the words "Heavy, Red Tube, Antimony" is disclaimed apart from the mark as shown. The lining shown on the drawing does not denote color.
Particular description of goods.—Inner Tubes for Pneumatic Tires.
Claims use since Nov. 15, 1919.

Ser. No. 133,672. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INTERNATIONAL COMPANY, Baltimore, Md. Filed June 14, 1920.

TICO

Particular description of goods.—Fruit Emulsion, Flavors without Alcohol for Foods, Powdered Egg Preparations, Meringue, Powdered Milk and Icing-Creams in Paste Forms, and Containing Coloring and Flavor, Pie-Fillers in the Form of Dry Powders to be Used as Fillers for Pie with the Addition of Water and Sugar, Jelly-Powders, Cake and Pastry Dough, Powdered Mace, Ground Spices, Marshmallowhite, and Flour Compound for Use in Making Cake, Pastry, and Bread Dough in Powdered Form.
Claims use since June 3, 1920.

Ser. No. 133,718. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) VICTORY RUBBER MANUFACTURING CO., Atlanta, Ga. Filed June 14, 1920.

Sealtyte AIR TIGHT TUBES

No claim is made to the words "Leak-Proof," "sealtight" or "Tubes" except in the mark as shown.
Particular description of goods.—Rubber Pneumatic Tires.
Claims use since Jan. 1, 1920.

Ser. No. 133,721. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN-CROSBY COMPANY, Minneapolis, Minn. Filed June 14, 1920.

CITATION

Particular description of goods.—Wheat-Flour.
Claims use since May 22, 1920.

Ser. No. 133,810. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 16, 1920.

HOUSEWIFES

Particular description of goods.—Bread.
Claims use since May 27, 1920.

Ser. No. 133,871. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CENTRAL TENT & AWNING COMPANY, St. Louis, Mo. Filed June 18, 1920.

CENTRAL TENT & AWNING CO. INC

No claim being made for the word "Brand."
Particular description of goods.—Tents and Awnings.
Claims use since October, 1919.

Ser. No. 133,897. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ST. ALBANS GRAIN COMPANY, St. Albans, Vt. Filed June 18, 1920.



Particular description of goods.—Poultry Feeds—Namely, Buttermilk Baby-Chick Food, Scratch Feed, Mash Feed, Chick Feed, Intermediate Chick Feed, Growing Feed, Molasses Dairy Feed, Plump Barley, Alfalfa-Meal, Balanced Ration, Wheat Feed, Milo Maize, Molasses Horse Feed, Yellow Corn, Oats, Pig Feed, Kafir Corn, Bran, Pigeon Feed, Calf-Meal, Linseed-Meal, Cornmeal, Cracked Corn, Hog Feed, Middlings, Buckwheat, Cotton-Seed Meal, Wheat, and Stock Feed.
Claims use since April, 1916.

Ser. No. 133,907. (CLASS 39. CLOTHING.) BARNEY, CAPEN & DENHAM CO., Brockton, Mass. Filed June 19, 1920.

SKILDOCRAFT

Particular description of goods.—Leather Boots and Shoes.
Claims use since on or about Dec. 22, 1919.

Ser. No. 133,953. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE BAKER R & L COMPANY, Cleveland, Ohio. Filed June 21, 1920.

Raulang

Particular description of goods.—Vehicle-Bodies.
Claims use since Feb. 1, 1919.

Ser. No. 133,966. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GORDON & DILWORTH, INC., New York, N. Y. Filed June 21, 1920.

R·O·M

Particular description of goods.—Orange Marmalade.
Claims use since Mar. 31, 1920.

Ser. No. 133,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KAUFMAN PACKING CO., INC., Baltimore, Md. Filed June 21, 1920.

BLUE SEAL

Particular description of goods.—Lard Containing Cotton-Seed Oil.
Claims use since on or about May 1, 1920.

Ser. No. 134,118. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DANIELSON-GARDANIER MANUFACTURING COMPANY, Chicago, Ill. Filed June 24, 1920.

"DG"

Particular description of goods.—Broaches, Expanding Burnishers, Wrenches, Motor-Stands, Combination-Vises, and Lifting-Irons.
Claims use since June 11, 1920.

Ser. No. 134,176. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BECH, VAN SICLEN & CO., INC., New York, N. Y. Filed June 25, 1920.

Talco

Particular description of goods.—Canned Fruits, Canned Fish, Canned Vegetables, and Canned Milk.
Claims use since Mar. 1, 1920.

Ser. No. 134,341. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANAHEIM CITRUS FRUIT ASSOCIATION, Anaheim, Calif. Filed June 29, 1920.

CARNIVAL

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Jan. 1, 1920.

Ser. No. 134,381. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLD BALDY CITRUS ASSOCIATION, Upland, Calif. Filed June 29, 1920.

EXCEL

No claim is made to the pictorial representation of the goods apart from the mark shown on the drawing.
Particular description of goods.—Fresh Citrus Fruits.
Claims use since Feb. 4, 1920.

Ser. No. 134,397. (CLASS 43. THREAD AND YARN.) THE WEST END THREAD COMPANY, Millbury, Mass. Filed June 29, 1920.

WESCO

Consists of the word "Wesco."
Particular description of goods.—Thread and Yarns.
Claims use since May 28, 1920.

Ser. No. 134,433. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SKELTON MOTORS CORPORATION, St. Louis, Mo. Filed June 30, 1920.

SKELTON

Particular description of goods.—Automobiles.
Claims use since About Feb. 1, 1920.

Ser. No. 134,458. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CEREAL PRODUCTS REFINING COMPANY, San Francisco, Calif. Filed July 1, 1920.

CEREX

Particular description of goods.—Syrup for Food Purposes and a Dough-Developer of a Fermentable Nature for Raising Dough.
Claims use since March, 1920.

Ser. No. 134,459. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CEREAL PRODUCTS REFINING COMPANY, San Francisco, Calif. Filed July 1, 1920.

ACME

Particular description of goods.—A Syrup for Food Purposes.
Claims use since March, 1920.

Ser. No. 134,460. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CEREAL PRODUCTS REFINING COMPANY, San Francisco, Calif. Filed July 1, 1920.

ORO

Particular description of goods.—A Refined Cereal Malt-Syrup for Food Purposes.
Claims use since March, 1919.

Ser. No. 134,464. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) P. C. DE VOL HARDWARE CO., Council Bluffs, Iowa. Filed July 1, 1920.

DE VOL'S SYPHON SYSTEM

No claim for the words "Syphon-System" being made except as in the form and association shown.
Particular description of goods.—Warm-Air Furnace Burning Coal, Wood, Oil, or other Fuel.
Claims use since Feb. 20, 1919.

Ser. No. 134,468. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE FITZGERALD MANUFACTURING COMPANY, Torrington, Conn. Filed July 1, 1920.

STAR

Particular description of goods.—Massage Shower-Bath Sprays.
Claims use since Feb. 10, 1920.

Ser. No. 134,471. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) RICHARD HAUGHTON, Paoli, Pa. Filed July 1, 1920.



GREAT VALLEY

Particular description of goods.—Seeds, (Flower, Vegetable, and Field,) and Horses.
Claims use since Mar. 1, 1920.

Ser. No. 134,472. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) RICHARD HAUGHTON, Paoli, Pa. Filed July 1, 1920.



VALLEY FORGE

Particular description of goods.—Seeds, (Flower, Vegetable, and Field.)
Claims use since Mar. 1, 1920.

Ser. No. 134,494. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WESTFIELD MANUFACTURING COMPANY, Westfield, Mass. Filed July 1, 1920.

Cyclet

Particular description of goods.—Pedal-Driven Three-Wheel Juvenile Vehicles.
Claims use since on or about Jan. 1, 1920.

Ser. No. 134,495. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WESTFIELD MANUFACTURING COMPANY, Westfield, Mass. Filed July 1, 1920.

Bicyclet

Particular description of goods.—Pedal-Driven Two-Wheel Juvenile Vehicles.
Claims use since on or about Jan. 1, 1920.

Ser. No. 134,546. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RAINIER PRODUCTS COMPANY, Seattle, Wash. Filed July 3, 1920.

BLUE MOON

Particular description of goods.—Maltless, Non-Alcoholic, Fruit Beverage Containing Less Than One-Half of One Per Cent. Alcohol, by Volume.
Claims use since May 15, 1920.

Ser. No. 134,596. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed July 6, 1920.

EVEREADY RESERVE

Particular description of goods.—Dry Batteries.
Claims use since June 15, 1920.

Ser. No. 134,623. (CLASS 15. OILS AND GREASES.) ANDERSON, MEYER & COMPANY, LTD., New York, N. Y. Filed July 7, 1920.

PYLO

Particular description of goods.—Turpentine and Turpentine Substitutes.
Claims use since Feb. 10, 1920.

Ser. No. 134,747. (CLASS 39. CLOTHING.) GREAT GRIMSBY COAL, SALT AND TANNING COMPANY, LIMITED, Great Grimsby, England. Filed July 9, 1920.



Particular description of goods.—Oilskin Clothing.
Claims use since the 2d of September, 1910.

Ser. No. 134,756. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed July 9, 1920.

UNOVERSO

Particular description of goods.—Dry and Ready-Mixed Paints, Paint and Varnish Driers, Paint Enamels, Wood-Stains, Varnish-Stains, Wall-Paints, Prepared Lacs, Fillers for Painters' Use, Varnishes, Floor-Waxes, Gasket-Shellac, Automobile-Enamels, Baking-Enamels, and Engine-Enamels.
Claims use since June 9, 1920.

Ser. No. 134,773. (CLASS 39. CLOTHING.) CRADDOCK TERRY COMPANY, Lynchburg, Va. Filed July 10, 1920.

Tickle Toe

Particular description of goods.—Misses' and Children's Shoes of Leather or of Leather and Fabric.
Claims use since June 23, 1920.

Ser. No. 134,774. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN H. DICKHUDT, St. Paul, Minn. Filed July 10, 1920.

DIAMOND

Particular description of goods.—Ice-Cream Cones or Cornets.
Claims use since on or about the 1st of April, 1910.

Ser. No. 134,782. (CLASS 39. CLOTHING.) RAB KOPS, New York, N. Y. Filed July 10, 1920.

BUD

Particular description of goods.—Corsets.
Claims use since about January, 1917.

Ser. No. 134,795. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SCHOENHOFEN COMPANY, Chicago, Ill. Filed July 10, 1920.



OLD SCOUT

Particular description of goods.—Birch-Ale.
Claims use since Mar. 27, 1920.

Ser. No. 134,822. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) INTERNATIONAL INDIA RUBBER CORPORATION, South Bend, Ind. Filed July 12, 1920.



Particular description of goods.—Rubber Tires.
Claims use since June 1, 1920.

Ser. No. 134,823. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) INTERNATIONAL INDIA RUBBER CORPORATION, South Bend, Ind. Filed July 12, 1920.



Particular description of goods.—Belting, Hose, Machinery Packing, and Non-Metallic Tires.
Claims use since June 1, 1920.

Ser. No. 134,827. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) T. A. LAMB COMPANY, Memphis, Tenn. Filed July 12, 1920.

ROYAL PALMS

Particular description of goods.—Coffee.
Claims use since Dec. 19, 1919.

Ser. No. 134,829. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ALBERT D. LEWIS, Los Angeles, Calif. Filed July 12, 1920.

Howino

Particular description of goods.—A Grape Product Containing Less Than One-Half of One Per Cent. of Alcohol.
Claims use since Dec. 1, 1919.

Ser. No. 134,839. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. G. MORSE CO., Chicago, Ill. Filed July 12, 1920.

MASTERPIECE

Particular description of goods.—Candy.
Claims use since Nov. 10, 1910.

Ser. No. 134,841. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BINGO MUSTARD CO., South Bend, Ind. Filed July 12, 1920.

BINGO

Particular description of goods.—Mustard.
Claims use since June 15, 1920.

Ser. No. 134,851. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE E. L. PATCH CO., Stoneham, Mass. Filed July 12, 1920.

Merry Mount

The words "Merry Mount."
Particular description of goods.—A Root-Beer Extract.
Claims use since June 1, 1920.

Ser. No. 134,863. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE TISCO COMPANY, Chicago, Ill. Filed July 12, 1920.

VANISCO

Particular description of goods.—Concentrated Vanilla Flavoring for Foods.
Claims use since 1915.

Ser. No. 134,869. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. B. WOOD MFG. CO., St. Louis, Mo. Filed July 12, 1920.

YUM YUM

Particular description of goods.—Ice-Cream.
Claims use since June 1, 1915.

Ser. No. 134,873. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BASTIAN-MORLEY CO., Laporte, Ind. Filed July 13, 1920.

KEYSTONE

Particular description of goods.—Gas Water-Heaters.
Claims use since Feb. 6, 1919.

Ser. No. 134,875. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BASTIAN-MORLEY CO., Laporte, Ind. Filed July 13, 1920.

THE MARVEL

Particular description of goods.—Gas Water-Heaters.
Claims use since Feb. 9, 1920.

Ser. No. 134,880. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHALET CHOCOLATE CORPORATION, New York, N. Y. Filed July 13, 1920.

CHALET

Particular description of goods.—Candy, Chocolate, and Cocoa.
Claims use since December, 1919.

Ser. No. 134,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONNECTICUT POP CORN CO., Norwich, Conn. Filed July 13, 1920.

DODGERS

Particular description of goods.—Popcorn Confection in Cake or Pressed-Wafer Form.
Claims use since 1910.

Ser. No. 134,891. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HOOVEN, OWENS, RENTSCHLER COMPANY, Hamilton, Ohio. Filed July 13, 1920. Under ten-year proviso.

HAMILTON

Particular description of goods.—Corliss Steam-Engines, Puppet-Valve Steam-Engines, Uniflow Steam-Engines, Marine Steam-Engines, Blowing and Pumping Engines, Internal-Combustion Engines, Sugar-Mills, Rolling-Mill Machinery, and Plate-Glass Machinery.
Claims use since 1883.

Ser. No. 134,921. (CLASS 39. CLOTHING.) D. E. SICHER & CO. INC., New York, N. Y. Filed July 13, 1920.

DOVE



Particular description of goods.—Women's, Misses', and Children's Muslin, Nainsook, Lawn, Cambric, Batiste, Flannelette, Silk, and Silk and Cotton Undergarments—viz., Underskirts, Nightgowns, Princess-Slips, Chemise, Skirt-Chemise, Envelop-Chemise, Chemise-Drawers, Shadow-Protectors, Combinations, Drawers, Corset-Covers, Brassières, Kimonos, Pajamas, Petticoats, Bloomers, Unionettes, Union-Suits, Boudoir-Caps, Dressing Sacks and Jackets, Negligées and Dressing-Gowns—and Knitted Underwear Made from Cotton, Silk, and Mixtures Thereof—viz., Athletic Underwear in One and Two Piece Garments, Bloomers, Unionettes, Union-Suits, Bedroom-Slippers, and Mules.
Claims use since June 1, 1914.

Ser. No. 134,926. (CLASS 39. CLOTHING.) UNIVERSAL GARMENT COMPANY, INC., Philadelphia, Pa. Filed July 13, 1920.

Classmate

Particular description of goods.—Men's Underwear and Pajamas.
Claims use since Jan. 3, 1920.

Ser. No. 134,932. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONNER & CO., Portland, Oreg. Filed July 14, 1920.

CRIMSON RAMBLER

Particular description of goods.—Table-Syrup, Molasses, and Honey.
Claims use since Sept. 3, 1919.

Ser. No. 134,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANDY PRODUCTS CORPORATION, Chicago, Ill. Filed July 14, 1920.

"Dear Me"

Particular description of goods.—Candies.
Claims use since May 27, 1920.

Ser No 134,945. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CAROLENE CO., INC., Chicago, Ill. Filed July 14, 1920.

Wisco

Particular description of goods.—A Compound of Refined Nut-Oils and Evaporated Skimmed Milk.
Claims use since June 18, 1920.

Ser. No. 134,957. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL CORN PRODUCTS CORPORATION, Detroit, Mich. Filed July 14, 1920.

OLD FARM



Particular description of goods.—Popcorn.
Claims use since Mar. 25, 1920.

Ser. No. 134,966. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LANGHOFF BROTHERS COMPANY, New Orleans, La. Filed July 14, 1920.

HONEY GOLD



Particular description of goods.—Table-Syrup.
Claims use since Feb. 13, 1920.

Ser. No. 134,971. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARSHALL CANNING COMPANY, Marshalltown, Iowa. Filed July 14, 1920.

GOBLIN



Particular description of goods.—Canned Vegetables.
Claims use since Apr. 1, 1918.

Ser. No. 134,977. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUWELA PINEAPPLE COMPANY, San Francisco, Calif. Filed July 14, 1920.

ROSALANI

Particular description of goods.—Canned Fruits.
Claims use since Mar. 20, 1920.

Ser. No. 134,978. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUWELA PINEAPPLE COMPANY, San Francisco, Calif. Filed July 14, 1920.

Pauwela

Particular description of goods.—Canned Fruits.
Claims use since Mar. 20, 1920.

Ser. No. 134,979. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUWELA PINEAPPLE COMPANY, San Francisco, Calif. Filed July 14, 1920.

MAUI BEAUTY BRAND

• The word "Brand" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits.
Claims use since Mar. 20, 1920.

Ser. No. 134,981. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUN HARBOR PACKING CORPORATION, San Diego, Calif. Filed July 14, 1920.

CHATEAU



Particular description of goods.—Canned Fish.
Claims use since June 14, 1918.

Ser. No. 134,990. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WINORR CANNING COMPANY, Circleville, Ohio. Filed July 14, 1920.

WERTHMOR



Particular description of goods.—Canned Vegetables.
Claims use since June 1, 1917.

Ser. No. 135,014. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OSWEGO MILLING COMPANY, INC., Oswego, N. Y. Filed July 15, 1920.



Particular description of goods.—Stock Food.
Claims use since Dec. 19, 1919.

Ser. No. 135,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OSWEGO MILLING COMPANY, INC., Oswego, N. Y. Filed July 15, 1920.

UNCLE JOHN'S

Particular description of goods.—Stock Food.
Claims use since Dec. 19, 1919.

Ser. No. 135,029. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE UNIVERSAL MILK COMPANY, Dover, Del. Filed July 15, 1920.



Particular description of goods.—Condensed Skimmed Milk Mixed With Cocoanut-Oil.
Claims use since July, 1920.

Ser. No. 135,030. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE UNIVERSAL MILK COMPANY, Dover, Del. Filed July 15, 1920.



Particular description of goods.—Condensed Skimmed Milk Mixed With Cocoanut-Oil.
Claims use since July, 1920.

Ser. No. 135,034. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISHOP & COMPANY, Los Angeles, Calif. Filed July 16, 1920.

INTERNATIONAL

Particular description of goods.—Candy.
Claims use since June 10, 1920.

Ser. No. 135,039. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EARLY-STRATTON CO., Memphis, Tenn. Filed July 16, 1920.

ARGONNE

Particular description of goods.—Coffee.
Claims use since July 1, 1920.

Ser. No. 135,042. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GURLEY CANDY COMPANY, Minneapolis, Minn. Filed July 16, 1920.

Dut Mallies

Particular description of goods.—Candy.
Claims use since September, 1914.

Ser. No. 135,043. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.). GURLEY CANDY COMPANY, Minneapolis, Minn. Filed July 16, 1920.

SAHARA

Particular description of goods.—Candy.
Claims use since June 20, 1920.

Ser. No. 135,054. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLS CANDY CO., Milwaukee, Wis. Filed July 16, 1920.



Particular description of goods.—Candy.
Claims use since May 1, 1920.

Ser. No. 135,117. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed July 17, 1920.

COCOBIANCA

Particular description of goods.—An Edible Oil Composed of Fatty, Oleaginous, or Unctuous Food Substances.
Claims use since about Oct. 18, 1919.

Ser. No. 135,118. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed July 17, 1920.

ARACHOLI

Particular description of goods.—An Edible Oil Composed of Fatty, Oleaginous or Unctuous Food Substances.
Claims use since about Oct. 18, 1919.

Ser. No. 135,134. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARDINET CANDY CO., Oakland, Calif. Filed July 19, 1920.

NOB-HILL

Particular description of goods.—Candy.
Claims use since Mar. 23, 1920.

Ser. No. 135,145. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWLEY & HOOPS, New York, N. Y. Filed July 19, 1920.

FLIVERS

Particular description of goods.—Chocolate Candy.
Claims use since Dec. 19, 1919.

Ser. No. 135,153. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FELIX LAUTER, Castletown, N. Y. Filed July 19, 1920.

EBOLITE

Particular description of goods.—Phonograph-Records.
Claims use since Apr. 12, 1920.

Ser. No. 135,165. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) EDWARD J. O'CONNELL, Pittsfield, Mass. Filed July 19, 1920.

Gorilla Clinch

Particular description of goods.—Automobile-Tire Patch.
Claims use since July 2, 1920.

Ser. No. 135,174. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ST. LOUIS PISTON RING CORPORATION, St. Louis, Mo. Filed July 19, 1920.

KWIK-SEAT

Particular description of goods.—Metallic Packing-Rings.
Claims use since June 8, 1920.

Ser. No. 135,176. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JACOB STEIN, New York, N. Y. Filed July 19, 1920.



No claim being made to the exclusive use of the words "Dress Saver" and "Supreme" apart from the mark as shown in the drawing.
Particular description of goods.—Dress-Shields.
Claims use since June, 1920.

Ser. No. 135,198. (CLASS 12. CONSTRUCTION MATERIALS.) BITOSLAG PAVING COMPANY, New York, N. Y. Filed July 20, 1920.

BITOCEMENT

Particular description of goods.—Bituminous and Cementitious Paving Material.
Claims use since July 2, 1920.

Ser. No. 135,265. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAY CITY MILLING CO., Bay City, Mich. Filed July 22, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since June 1, 1920.

Ser. No. 135,277. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOUSE BROTHERS, Plant City, Fla. Filed July 22, 1920.



Particular description of goods.—Fresh Citrus Fruits.
Claims use since November, 1919.

Ser. No. 135,278. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) E. F. HOUGHTON & Co., Philadelphia, Pa. Filed July 22, 1920.

OLD MAID

Particular description of goods.—Leather Belting.
Claims use since about 1915.

Ser. No. 135,279. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) E. F. HOUGHTON & Co., Philadelphia, Pa. Filed July 22, 1920.

A

Particular description of goods.—Leather Belting.
Claims use since about 1915.

Ser. No. 135,300. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SHELBY CANDY AND MANUFACTURING COMPANY, Shelby, Ohio. Filed July 22, 1920.

EL OCHO BAR

No claim is, however, made to the word "Bar" apart from the mark shown on the accompanying drawing.
Particular description of goods.—Chocolates and Candy.
Claims use since about Sept. 9, 1915.

Ser. No. 135,301. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SHELBY CANDY AND MANUFACTURING COMPANY, Shelby, Ohio. Filed July 22, 1920.

B.C.NUT BAR

No claim is, however, made to the words "Nut Bar" apart from the mark shown on the accompanying drawing.
Particular description of goods.—Chocolates and Candy.
Claims use since about Aug. 30, 1915.

Ser. No. 135,302. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SHELBY CANDY AND MANUFACTURING COMPANY, Shelby, Ohio. Filed July 22, 1920.

Nut Knob Bar

No claim is, however, made to the word "Bar" apart from the mark shown on the accompanying drawing.
Particular description of goods.—Chocolates and Candy.
Claims use since about Aug. 26, 1915.

Ser. No. 135,323. (CLASS 39. CLOTHING.) GRAHAM-BUMGARNER COMPANY, Parkersburg, W. Va. Filed July 23, 1920.

Pioneer

The word "Pioneer."
Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since 1906.

Ser. No. 135,325. (CLASS 39. CLOTHING.) GRAHAM-BUMGARNER COMPANY, Parkersburg, W. Va. Filed July 23, 1920.

Bull Pup

The words "Bull Pup."
Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since 1918.

Ser. No. 135,328. (CLASS 39. CLOTHING.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed July 23, 1920.

Junior

Particular description of goods.—Infants' and Children's Underwear, Baby-Pants, and Waders.
Claims use since July 21, 1920.

Ser. No. 135,329. (CLASS 39. CLOTHING.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed July 23, 1920.

Jiffy Junior

Particular description of goods.—Infants' and Children's Underwear and Baby-Pants.
Claims use since July 20, 1920.

Ser. No. 135,333. (CLASS 39. CLOTHING.) LOUIS METZGER & COMPANY, New York, N. Y. Filed July 23, 1920.

Metsknit

Particular description of goods.—Sweaters, Neckscarfs, Shawls, Capes, and Mufflers.
Claims use since June 15, 1920.

Ser. No. 135,357. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed July 24, 1920.

Troubadour

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since July 12, 1920.

Ser. No. 135,359. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED K. CHANDLER, Des Moines, Iowa. Filed July 24, 1920.

K-LASSES

Particular description of goods.—Stock Food.
Claims use since Apr. 15, 1920.

Ser. No. 135,385. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SCOTT PLAYER ACTION CO., Racine, Wis. Filed July 24, 1920.



Particular description of goods.—Player-Piano Actions.
Claims use since Jan. 15, 1920.

Ser. No. 135,388. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) TIFFANY & COMPANY, New York, N. Y. Filed July 24, 1920. Under ten-year proviso.

TIFFANY & CO.

Particular description of goods.—Music-Boxes.
Claims use since 1868.

Ser. No. 135,442. (CLASS 33. GLASSWARE.) THE CLAMERT MANUFACTURING COMPANY, Pittsburgh, Pa. Filed July 27, 1920.

CLAMERT

Particular description of goods.—Headlight-Lenses.
Claims use since July 1, 1916.

Ser. No. 135,462. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERS BROS. MILLING COMPANY, San Francisco, Calif. Filed July 28, 1920.

MILK-FLO

Particular description of goods.—Stock Feed.
Claims use since Apr. 1, 1920.

Ser. No. 135,470. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WESTERN MILLING COMPANY, Los Angeles, Calif. Filed July 28, 1920.

VITALIFE

Particular description of goods.—Food for Stock, Particularly for Chickens.
Claims use since Jan. 1, 1920.

Ser. No. 135,471. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WESTERN MILLING COMPANY, Los Angeles, Calif. Filed July 28, 1920.

Vitalize

Particular description of goods.—Feed for Stock, Particularly for Hens.
Claims use since June 4, 1920.

Ser. No. 135,472. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WESTERN MILLING COMPANY, Los Angeles, Calif. Filed July 28, 1920.

Co-pro

Particular description of goods.—Food for Stock, Particularly for Hogs.
Claims use since June 2, 1920.

Ser. No. 135,530. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) TRUE-MATIC TIRE & TUBE COMPANY, Wilmington, Del., and Wellington, Ohio. Filed July 28, 1920.

TRU-MATIC

Particular description of goods.—Automobile-Tires Composed Principally of Rubber.
Claims use since July 1, 1920.

Ser. No. 135,568. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MERCURY BODY CORPORATION, Lexington, Ky. Filed July 29, 1920.

MERCURY

Particular description of goods.—Automobile Bodies and Underframes.
Claims use since May 1, 1920.

Ser. No. 135,616. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAPENDICK BAKERY COMPANY, St. Louis, Mo. Filed July 30, 1920.



Particular description of goods.—Bread.
Claims use since Mar. 1, 1920.

Ser. No. 135,739. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TACOMA GRAIN COMPANY, Tacoma, Wash. Filed Aug. 2, 1920.

DAMON

Particular description of goods.—Wheat-Flour.
Claims use since Jan. 12, 1920.

Ser. No. 135,940. (CLASS 40. FANCY GOODS, FURNISHINGS AND NOTIONS.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed Aug. 9, 1920.



Particular description of goods.—Safety-Pins.
Claims use since July 14, 1919.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 14, 1920.

134,563. MEDICINE FOR GROUND-ITCH ON CHILDREN AND SOREHEAD ON CHICKENS. RENA ALLEN, Daytona, Fla.
Filed January 10, 1920. Serial No. 126,982; PUBLISHED MAY 18, 1920.

134,564. MOTOR-TRUCKS. ALL-AMERICAN TRUCK COMPANY, Chicago, Ill.
Filed February 20, 1919. Serial No. 116,018; PUBLISHED APRIL 20, 1920.

134,565. SOAP. B. ALTMAN & Co., New York, N. Y.
Filed February 19, 1920. Serial No. 128,583. PUBLISHED MAY 18, 1920.

134,566. WRITING-INKS. AMERICAN INK COMPANY, Seattle, Wash.
Filed February 20, 1920. Serial No. 128,642. PUBLISHED May 11, 1920.

134,567. RESPIRATORS, MASKS, HOODS, HELMETS, FIRST-AID CABINETS AND KITS, FIRST-AID EQUIPMENT, AND FIRST-AID SUPPLIES AND ACCESSORIES. AMERICAN LA FRANCE FIRE ENGINE CO., INC., Elmira, N. Y.
Filed January 3, 1919. Serial No. 114,967. PUBLISHED APRIL 20, 1920.

134,568. WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF. AMERICAN-SWISS WATCH CO. INC., Peekskill, N. Y.
Filed November 19, 1919. Serial No. 125,072. PUBLISHED APRIL 13, 1920.

134,569. HAND, WALL, AND STAND MIRRORS. THE AMES-BONNER COMPANY, Toledo, Ohio.
Filed August 20, 1919. Serial No. 121,825. PUBLISHED MAY 25, 1920.

134,570. BRISTLES AND HUMAN HAIR. ANDERSEN-MEYER & COMPANY, LTD., New York, N. Y.
Filed December 16, 1919. Serial No. 126,090. PUBLISHED MAY 11, 1920.

134,571. DRY PAINTS, WATER PASTE PAINTS, AND PAINT AND VARNISH PIGMENTS. A. B. ANSBACHER & COMPANY, INC., New York, N. Y.
Filed July 21, 1919. Serial No. 120,739. PUBLISHED MAY 11, 1920.

134,572. DRY PAINTS, WATER PASTE PAINTS, AND PAINT AND VARNISH PIGMENTS. A. B. ANSBACHER & COMPANY, INC., New York, N. Y.
Filed July 21, 1919. Serial No. 120,740. PUBLISHED MAY 11, 1920.

134,573. IGNITION-MAGNETOS AND PARTS THEREOF AND ELECTRICAL CONDENSERS. APOLLO MAGNETO CORPORATION, Dover, Del., and Brooklyn, N. Y.
Filed February 19, 1920. Serial No. 128,585. PUBLISHED MAY 11, 1920.

134,574. AUTOMOBILE-TRUCKS, WAGONS, CARTS, DRAYS, AND VEHICLES—NAMELY, TRAILERS AND SEMITRAILERS. THE O. ARMLEDER CO., Cincinnati, Ohio.
Filed November 13, 1919. Serial No. 124,840. PUBLISHED APRIL 20, 1920.

134,575. MUSICAL-INSTRUMENT STRINGS. ARMOUR AND COMPANY, Chicago, Ill.
Filed February 26, 1920. Serial No. 128,913. PUBLISHED MAY 18, 1920.

134,576. MUSICAL-INSTRUMENT STRINGS. ARMOUR AND COMPANY, Chicago, Ill.
Filed February 26, 1920. Serial No. 128,914. PUBLISHED MAY 18, 1920.

134,577. MUSICAL-INSTRUMENT STRINGS. ARMOUR AND COMPANY, Chicago, Ill.
Filed March 8, 1920. Serial No. 129,366. PUBLISHED MAY 18, 1920.

134,578. MUSICAL-INSTRUMENT STRINGS. ARMOUR AND COMPANY, Chicago, Ill.
Filed March 8, 1920. Serial No. 129,367. PUBLISHED MAY 18, 1920.

134,579. LADIES' AND MISSES' WAISTS FOR OUTER WEAR. THE ARROW BRAND HEMSTITCHING & TUCKING CO. INC., New York, N. Y.
Filed February 19, 1920. Serial No. 128,588. PUBLISHED MAY 18, 1920.

134,580. MEDICINES FOR STOMACH, BOWEL, LIVER, AND SIMILAR TROUBLES AND FOR THE BLOOD. THE ATLANTIC REMEDIES CO., New York, N. Y.
Filed January 27, 1920. Serial No. 127,626. PUBLISHED MAY 18, 1920.

134,581. COUGH-CANDY, COUGH-DROPS, AND COUGH-LOZENGES. AUBREY-BECKER SALES COMPANY, San Francisco, Calif.
Filed November 28, 1919. Serial No. 125,358. PUBLISHED MAY 18, 1920.

134,582. MEN'S AND YOUNG MEN'S SUITS AND OVERCOATS. S. BACHARACH & COMPANY, Philadelphia, Pa.
Filed February 5, 1920. Serial No. 127,992. PUBLISHED MAY 11, 1920.

134,583. COUNTERS, RACKS, CABINETS, CHAIRS, STOOLS, TABLES, AND DESKS. BAKE-RITE OVEN MFG. COMPANY, Reno, Nev., and San Francisco, Calif.
Filed June 9, 1919. Serial No. 119,330. PUBLISHED MAY 25, 1920.

134,584. PIANOS, PLAYER-PIANOS, AND PIANO-PLAYERS. THE BALDWIN COMPANY, Cincinnati, Ohio.
Filed March 25, 1920. Serial No. 130,154. PUBLISHED MAY 11, 1920.

134,585. DRESS-SHIRTS, NEGLIGÉE SHIRTS, AND SOFT COLLARS. ERNEST LYNWOOD BARTON, Chester, S. C.
Filed February 5, 1920. Serial No. 127,999. PUBLISHED MAY 18, 1920.

134,586. LEATHER. A. J. BATES & COMPANY, INC., New York, N. Y.
Filed February 9, 1920. Serial No. 128,137. PUBLISHED APRIL 20, 1920.

134,587. CORSETS AND BELTS IN THE NATURE OF AND WORN AS SUBSTITUTES FOR CORSETS. FRÉDÉRIC GEORGES BAUGATZ, Paris, France.
Filed December 29, 1917. Serial No. 108,211. PUBLISHED MAY 11, 1920.

134,588. KNIT UNDERWEAR. SOLON D. BAUSHER, Reading, Pa.
Filed September 19, 1916. Serial No. 98,075. PUBLISHED JULY 16, 1918.

134,589. PIANOS AND PIANO-PLAYERS. H. C. BAY COMPANY, Chicago, Ill., and Bluffton, Ind.
Filed December 20, 1919. Serial No. 126,270. PUBLISHED MAY 11, 1920.

134,590. PIANOS AND PIANO-PLAYERS. H. C. BAY COMPANY, Chicago, Ill., and Bluffton, Ind.
Filed August 18, 1919. Serial No. 121,736. PUBLISHED MAY 11, 1920.

134,591. PIANOS AND PIANO-PLAYERS. H. C. BAY COMPANY, Chicago, Ill., and Bluffton, Ind.
Filed August 18, 1919. Serial No. 121,737. PUBLISHED MAY 11, 1920.

134,592. PHONOGRAPHS, RECORDS, AND NEEDLES. BEACON PHONOGRAPH COMPANY, Boston, Mass.
Filed February 25, 1920. Serial No. 128,875. PUBLISHED MAY 11, 1920.

134,593. GASOLENE, BENZIN, NAPHTHA, KEROSENE, FUEL-OIL, AND LUBRICATING OILS AND GREASES. BEAVER REFINING COMPANY, Pittsburgh, Pa.
Filed October 31, 1919. Serial No. 124,387. PUBLISHED MAY 18, 1920.

134,594. CERTAIN NAMED ELECTRICAL GOODS. "BESTOV" MANUFACTURING CO., Seattle, Wash.
Filed March 31, 1920. Serial No. 130,406. PUBLISHED MAY 18, 1920.

134,595. AUTOMOBILE-BUMPERS AND ATTACHING-BRACKETS. BIFLEX PRODUCTS COMPANY, Waukegan, Ill.
Filed February 21, 1920. Serial No. 128,723. PUBLISHED MAY 11, 1920.

134,596. POLISHING AND CLEANING LIQUID. LOUIS A. BLOCK, New Orleans, La.
Filed February 11, 1919. Serial No. 115,753. PUBLISHED MAY 11, 1920.

134,597. PEARLS. MONROE BLOCK & CO., Providence, R. I.
Filed January 27, 1920. Serial No. 127,628. PUBLISHED MAY 18, 1920.

134,598. CERTAIN NAMED CLOTHING. WILLIAM BLOOM & CO. INC., New York, N. Y.
Filed October 23, 1919. Serial No. 124,095. PUBLISHED APRIL 13, 1920.

134,599. TOY BUILDING-BLOCKS. GEORGE BORGFELDT & CO., New York, N. Y.
Filed February 25, 1920. Serial No. 128,876. PUBLISHED MAY 11, 1920.

134,600. KIMONOS. GEORGE BORGFELDT & CO., New York, N. Y.
Filed March 2, 1920. Serial No. 129,124. PUBLISHED MAY 11, 1920.

134,601. CERTAIN NAMED PAINTS AND VARNISHES. DIEDRICH H. BRANDES, New York, N. Y.
Filed January 26, 1917. Serial No. 100,954. PUBLISHED MAY 25, 1920.

134,602. WAXY PREPARATION FOR POLISHING AUTOMOBILES, FURNITURE, AND STAINED AND HARDWOOD FLOORS. ANDREW G. BRIGGS, Richmond, Va.
Filed February 3, 1920. Serial No. 127,888. PUBLISHED MAY 18, 1920.

134,603. CIGARETTES. BRITISH-AMERICAN TOBACCO COMPANY, LIMITED, London, England.
Filed July 9, 1919. Serial No. 120,370. PUBLISHED MAY 18, 1920.

134,604. APRONS. BROOKLYN SHIELD & RUBBER COMPANY, Brooklyn, N. Y.
Filed March 3, 1920. Serial No. 129,168. PUBLISHED MAY 11, 1920.

134,605. ELECTRIC BATTERIES. BURGESS BATTERY COMPANY, Madison, Wis.
Filed March 3, 1920. Serial No. 129,169. PUBLISHED MAY 18, 1920.

134,606. PREPARATION USED FOR SOFTENING WATER. CALIFORNIA SODA PRODUCTS CO., San Francisco, Calif.
Filed October 20, 1919. Serial No. 123,967. PUBLISHED MAY 11, 1920.

134,607. WEEKLY NEWSPAPER. THE CATHOLIC NEWS PUBLISHING COMPANY, New York, N. Y.
Filed November 14, 1919. Serial No. 124,884. PUBLISHED MARCH 16, 1920.

134,608. CERTAIN NAMED GLASSWARE. CENTRAL GLASS WORKS, Wheeling, W. Va.
Filed January 2, 1920. Serial No. 126,715. PUBLISHED APRIL 20, 1920.

134,609. SALVE AND LINIMENT TO BE USED FOR THE TREATMENT OF CERTAIN NAMED DISEASES. A. C. CHAPA, San Antonio, Tex.
Filed January 12, 1920. Serial No. 127,030. PUBLISHED MAY 11, 1920.

134,610. LUBRICATING-OIL. CHARLESTON OIL COMPANY, Charleston, S. C.
Filed August 27, 1919. Serial No. 122,042. PUBLISHED MAY 18, 1920.

134,611. INSECTICIDE. A. O. CHEMICAL CO., Ocilla, Ga.
Filed January 22, 1920. Serial No. 127,468. PUBLISHED MAY 11, 1920.

134,612. CERTAIN NAMED INDUSTRIAL LUNCH-ROOM EQUIPMENTS. CHICAGO HARDWARE FOUNDRY COMPANY, North Chicago, Ill.
Filed November 17, 1919. Serial No. 124,972. PUBLISHED MAY 11, 1920.

134,613. SMOKING AND CHEWING TOBACCO, CIGARS, AND CIGARETTES. JOHN CHRISTOFORIDES, London, England.
Filed October 7, 1919. Serial No. 123,512. PUBLISHED MAY 18, 1920.

134,614. DENTAL PLIERS, FORCEPS, AND RONGEURS. THE CLEVELAND DENTAL MANUFACTURING COMPANY, Cleveland, Ohio.
Filed December 22, 1919. Serial No. 126,306. PUBLISHED APRIL 20, 1920.

134,615. PRINTED BOOKS PUBLISHED IN SERIES. E. J. CLODE, New York, N. Y.
Filed November 3, 1919. Serial No. 124,469. PUBLISHED JANUARY 6, 1920.

134,616. FOLDING WARDROBES. CLOSGARD WARDROBE COMPANY, Washington, D. C.
Filed October 29, 1919. Serial No. 124,293. PUBLISHED MAY 25, 1920.

134,617. MEN'S AND BOYS' ATHLETIC UNDERWEAR. COHN, GOLDWATER COMPANY, Los Angeles, Calif.
Filed November 18, 1919. Serial No. 125,049. PUBLISHED MAY 18, 1920.

134,618. MONTHLY MAGAZINE PUBLICATIONS. COLUMBIA GRAPHOPHONE COMPANY, New York, N. Y.
Filed November 25, 1919. Serial No. 125,273. PUBLISHED FEBRUARY 10, 1920.

134,619. WIND MUSICAL INSTRUMENTS OF THE BUGLE AND TRUMPET TYPE. C. G. CONN, LTD., Elkhart, Ind.
Filed February 7, 1920. Serial No. 128,080. PUBLISHED MAY 11, 1920.

134,620. HAND-SOAP, THE COPE-WALTON CO. INC., New York, N. Y.
Filed March 11, 1920. Serial No. 129,538. PUBLISHED MAY 18, 1920.

134,621. SHOE-LASTS. THE CRAWFORD MCGREGOR & CANBY COMPANY, Dayton, Ohio.
Filed August 12, 1919. Serial No. 121,566. PUBLISHED APRIL 20, 1920.

134,622. NEWSPAPERS. THE DALLAS SATURDAY NIGHT COMPANY, Dallas, Tex.
Filed November 1, 1919. Serial No. 124,437. PUBLISHED FEBRUARY 10, 1920.

134,623. CERTAIN NAMED LEATHER GOODS. THE DECO CO., New York, N. Y.
Filed February 20, 1920. Serial No. 128,668. PUBLISHED MAY 25, 1920.

134,624. CERTAIN NAMED JEWELRY. THE DECO CO., New York, N. Y.
Filed February 20, 1920. Serial No. 128,669. PUBLISHED MAY 11, 1920.

134,625. CIGARS. DE NOBILI CIGAR CO., INC., Long Island City and New York, N. Y.
Filed January 6, 1920. Serial No. 126,852. PUBLISHED MAY 11, 1920.

134,626. REFINED AND UNREFINED FATS USED AS A BASE IN THE MANUFACTURE OF OINTMENT FOR MEDICINAL PURPOSES. DE NORDISKE FABRIKER, DE-NO-FA, AKTIESELSKAB, Christiania, Norway.
Filed July 28, 1919. Serial No. 120,988. PUBLISHED MAY 18, 1920.

134,627. TOOTH-PASTE. THE DENTOCIDE CHEMICAL CO., Baltimore, Md.
Filed January 3, 1920. Serial No. 126,762. PUBLISHED MAY 18, 1920.

134,628. SHAVING-CREAM. FRANK DE PALMA, Brooklyn, N. Y.
Filed February 18, 1920. Serial No. 128,558. PUBLISHED MAY 18, 1920.

134,629. BASSINETTES. LOUIS G. DIBBLE, Shortsville, N. Y.
Filed February 16, 1920. Serial No. 128,424. PUBLISHED MAY 11, 1920.

134,630. LUBRICATING OILS AND GREASES. W. B. DICK & COMPANY, INC., New York, N. Y.
Filed November 29, 1919. Serial No. 125,421. PUBLISHED MAY 11, 1920.

134,631. LAXATIVE TABLETS. GUY G. DILLOW, St. Louis, Mo.
Filed October 6, 1919. Serial No. 123,476. PUBLISHED MARCH 2, 1920.

134,632. WATERPROOF AUTOMOBILE TEXTILE MATERIAL AND ENAMELED LEATHER-CLOTH. THE W. J. DONNELLY COMPANY, Detroit, Mich.
Filed January 13, 1919. Serial No. 115,140. PUBLISHED MAY 11, 1920.

134,633. LINSEED-OIL SUBSTITUTE. DOUGLAS PAINT OIL CO., Chicago, Ill.
Filed August 9, 1919. Serial No. 121,461. PUBLISHED MAY 18, 1920.

134,634. [WITHDRAWN.]

134,635. CERTAIN NAMED TOILET PREPARATIONS. DRUGGISTS CONCENTRATES CO., Pittsburgh, Pa.
Filed December 5, 1919. Serial No. 125,606. PUBLISHED MAY 11, 1920.

134,636. MEDICINAL COMPOUND FOR THE LIVER. CHARLES EUGENE EVANS, Manchester, Ga.
Filed January 5, 1920. Serial No. 126,792. PUBLISHED APRIL 27, 1920.

134,637. STRAW AND CLOTH HATS FOR CHILDREN, GIRLS, AND MISSES. MADGE EVANS HAT CO., New York, N. Y.
Filed January 2, 1920. Serial No. 126,784. PUBLISHED MAY 11, 1920.

134,638. NEWSPAPER-SECTION KNOWN IN NEWSPAPER PARLANCE AS DEPARTMENT. THE EVENING NEWS PUBLISHING CO., Newark, N. J.
Filed September 23, 1919. Serial No. 123,023. PUBLISHED FEBRUARY 24, 1920.

134,639. FIRE-EXTINGUISHING FLUID. EVERIT CHEMICAL CO., New Haven, Conn.
Filed January 17, 1920. Serial No. 127,242. PUBLISHED MAY 11, 1920.

134,640. LEATHER TABLE MATS AND RUNNERS. EXCELLO MAT COMPANY INC., New York, N. Y.
Filed December 6, 1919. Serial No. 125,654. PUBLISHED APRIL 20, 1920.

134,641. CHILDREN'S AND MISSES' UNDERGARMENTS. THE FAIR MAID UNDERGARMENT CO., New York, N. Y.
Filed December 31, 1919. Serial No. 126,680. PUBLISHED MAY 11, 1920.

134,642. CERTAIN NAMED STEEL FIRE-RESISTING ROOFING AND SURFACE-ROOFING. THE FARM EQUIPMENT CO., Baltimore, Md.
Filed December 31, 1919. Serial No. 126,682. PUBLISHED MAY 11, 1920.

134,643. LEATHER, FABRIC, AND COMBINATION SHOES. HENRY C. BLAZER, Kansas City, Mo.
Filed Dec. 1, 1919. Serial No. 125,456. PUBLISHED MAY 11, 1920.

134,644. HAIR-TONIC. HARRY F. FEEBACK, El Paso, Tex.
Filed November 15, 1919. Serial No. 124,930. PUBLISHED MAY 18, 1920.

134,645. CRAVATS AND NECKTIES. FEINBERG & FEINBERG, New York, N. Y.
Filed January 28, 1920. Serial No. 127,682. PUBLISHED MAY 11, 1920.

134,646. OINTMENT AND TABLETS FOR TREATMENT OF COLDS, LA GRIPPE, INFLUENZA, AND THE LIKE. FESLER & COMPANY, St. Louis, Mo.
Filed January 5, 1920. Serial No. 126,795. PUBLISHED APRIL 27, 1920.

134,647. PIANOFORTES, GRAND AND UPRIGHT PIANOS, AND GRAND AND UPRIGHT PLAYER-PIANOS. J. & C. FISCHER, New York, N. Y.
Filed January 27, 1920. Serial No. 127,672. PUBLISHED MAY 11, 1920.

134,648. MEDICINAL PREPARATION TO BE EXTERNALLY USED. FITZGERALD & PERRY, Keota, Iowa.
Filed January 17, 1920. Serial No. 127,243. PUBLISHED MAY 11, 1920.

134,649. AIR-CONDITIONING APPARATUS, AIR-DRIERS OF ALL KINDS, AND STEAM-HEATING APPARATUS. W. L. FLEISHER & CO. INC., New York, N. Y.
Filed October 13, 1919. Serial No. 123,732. PUBLISHED APRIL 20, 1920.

134,650. MEDICINES FOR THE PREVENTION OF INFECTIONS OF THE URINARY TRACT. E. FOUGERA & CO., New York, N. Y.
Filed December 22, 1919. Serial No. 126,312. PUBLISHED MAY 18, 1920.

134,651. HOSIERY. FULFASHON HOSIERY COMPANY, New York, N. Y.
Filed February 20, 1920. Serial No. 128,676. PUBLISHED MAY 11, 1920.

134,652. HOSIERY. FULFASHON HOSIERY COMPANY, New York, N. Y.
Filed February 20, 1920. Serial No. 128,677. PUBLISHED MAY 11, 1920.

134,653. AUTOMOBILES. GARDNER MOTOR CO., St. Louis, Mo.
Filed January 20, 1920. Serial No. 127,363. PUBLISHED MAY 11, 1920.

134,654. FOOT-LOTION. GARY LABORATORIES COMPANY, Gary, Ind.
Filed January 20, 1920. Serial No. 127,364. PUBLISHED MAY 11, 1920.

134,655. RUBBER TIRES. THE GATES RUBBER COMPANY, Denver, Colo.
Filed October 6, 1919. Serial No. 123,480. PUBLISHED FEBRUARY 24, 1920.

134,656. ELECTRIC CARBONS. THE GENERAL ELECTRIC COMPANY LIMITED, London, England.
Filed June 5, 1919. Serial No. 119,234. PUBLISHED MAY 18, 1920.

134,657. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS AND A FURNITURE-POLISH. GERSTENDORFER BROS., New York, N. Y.
Filed January 21, 1920. Serial No. 127,429. PUBLISHED MAY 11, 1920.

134,658. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed February 9, 1920. Serial No. 128,152. PUBLISHED MAY 18, 1920.

134,659. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed February 9, 1920. Serial No. 128,153. PUBLISHED MAY 18, 1920.

134,660. BILLIARD-CUSHIONS. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed December 29, 1919. Serial No. 126,571. PUBLISHED MAY 11, 1920.

134,661. ELEVATOR-BELTS MADE OF RUBBER REINFORCED WITH FABRIC. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed December 29, 1919. Serial No. 126,572. PUBLISHED APRIL 20, 1920.

134,662. WRITING AND ENGROSSING INK. EMIL GOODWIRTH, St. Louis, Mo.
Filed January 12, 1920. Serial No. 127,051. PUBLISHED JUNE 8, 1920.

134,663. RECTAL SUPPOSITORIES. JAMES B. GOOKEN, Los Angeles, Calif.
Filed January 2, 1920. Serial No. 126,723. PUBLISHED APRIL 27, 1920.

134,664. PHONOGRAPHS. GRAND RAPIDS SCHOOL EQUIPMENT CO., Grand Rapids, Mich.
Filed August 4, 1919. Serial No. 121,245. PUBLISHED MAY 11, 1920.

134,665. HOSIERY. W. T. GRANT CO., New York, N. Y.
Filed February 10, 1920. Serial No. 128,207. PUBLISHED MAY 18, 1920.

134,666. DYESTUFFS. THE GRASSELLI CHEMICAL CO., Cleveland, Ohio.
Filed January 7, 1920. Serial No. 126,902. PUBLISHED MAY 18, 1920.

134,667. CHILDREN'S DRESSES. WILLARD E. GRAVES, New York, N. Y.
Filed March 9, 1920. Serial No. 129,460. PUBLISHED MAY 18, 1920.

134,668. PHYSIC FOR CHILDREN. JACOB L. GREENBAUM, Toledo, Ohio.
Filed January 20, 1920. Serial No. 127,369. PUBLISHED MAY 11, 1920.

134,669. ACCOUNTING-FORMS. J. H. GREENHALGH & COMPANY, Chicago, Ill.
Filed January 12, 1920. Serial No. 127,053. PUBLISHED MAY 18, 1920.

134,670. PREPARATION FOR THE TREATMENT OF CONSUMPTION AND TUBERCULOSIS. STANLEY & GRIFFIN, Lowell, Mass., assignor to Stanley-Griffin, Lowell, Mass., a Corporation of Massachusetts.
Filed October 25, 1919. Serial No. 124,191. PUBLISHED APRIL 27, 1920.

134,671. PHONOGRAPH-CABINETS. GRIMWOOD BROS., Evansville, Ind.
Filed January 2, 1920. Serial No. 126,724. PUBLISHED MAY 11, 1920.

134,672. LADIES' WAISTS AND BLOUSES. ADOLPH R. HAAS, Chicago, Ill.
Filed October 22, 1919. Serial No. 124,070. PUBLISHED MAY 11, 1920.

134,673. HOSIERY FOR MEN, WOMEN, CHILDREN, AND INFANTS. S. HALFF & CO., Los Angeles, Calif.
Filed August 8, 1919. Serial No. 121,392. PUBLISHED MAY 11, 1920.

134,674. MEDICINE USED IN THE TREATMENT OF TUBERCULOSIS. MARTHA HALL, San Francisco, Calif.
Filed January 10, 1920. Serial No. 126,994. PUBLISHED MAY 18, 1920.

134,675. BUILDING-BLOCKS, PLAY-BLOCKS, AND BLOCKS FOR GAMES. HALSAM PRODUCTS COMPANY, Chicago, Ill.
Filed January 23, 1920. Serial No. 127,510. PUBLISHED MAY 18, 1920.

134,676. SEMI-ANNUAL PERIODICALS. ROBERT THOMAS HARDY, Brooklyn, N. Y.
Filed October 9, 1919. Serial No. 123,575. PUBLISHED FEBRUARY 10, 1920.

134,677. STORAGE BATTERIES AND PARTS THEREOF. THE HARTFORD BATTERY MANUFACTURING COMPANY, Hartford, Conn.
Filed March 8, 1920. Serial No. 129,386. PUBLISHED MAY 18, 1920.

134,678. AUTOMOBILES. THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind.
Filed November 17, 1919. Serial No. 124,990. PUBLISHED MAY 11, 1920.

134,679. MEDICINAL PREPARATION USED IN THE TREATMENT OF CERTAIN NAMED DISEASES. CHARLES L. HEFFNER, Brooklyn, N. Y.
Filed December 11, 1919. Serial No. 125,844. PUBLISHED MAY 11, 1920.

134,680. BLOTTERS, FOLDERS, PICTURES, MESSAGE-CARDS, HANGERS, FANS, SERVICE-CARDS, DIRECTORIES, SHOW-CARDS AND CALENDARS. THE HENDERSON LITHOGRAPHING COMPANY, Cincinnati, Ohio.
Filed May 31, 1918. Serial No. 111,270. PUBLISHED JANUARY 27, 1920.

134,681. REMEDY AGAINST DANDRUFF AND A TONIC TO STIMULATE THE GROWTH OF HAIR. RAMONA M. HOLQUIN, Douglas, Ariz.
Filed December 1, 1919. Serial No. 125,457. PUBLISHED MAY 11, 1920.

134,682. STOVE-POLISH. HOOSIER CHEMICAL COMPANY, Mount Carmel, Ill.
Filed March 8, 1920. Serial No. 129,389. PUBLISHED MAY 18, 1920.

134,683. UNDERWEAR FOR MEN AND WOMEN. HOPE KNITTING COMPANY, Cohoes, N. Y.
Filed February 20, 1920. Serial No. 128,685. PUBLISHED MAY 11, 1920.

134,684. CERTAIN NAMED TOILET PREPARATIONS. RICHARD HUDNUT, New York, N. Y.
Filed October 31, 1919. Serial No. 124,407. PUBLISHED APRIL 27, 1920.

134,685. STAINLESS CROUP AND PNEUMONIA SALVE. HUNT CHEMICAL COMPANY, Jacksonville, Fla.
Filed January 20, 1920. Serial No. 127,371. PUBLISHED MAY 11, 1920.

134,686. COLD, CROUP, AND PNEUMONIA SALVE. HUNT CHEMICAL COMPANY, Jacksonville, Fla.
Filed January 20, 1920. Serial No. 127,372. PUBLISHED MAY 11, 1920.

134,687. TONIC FOR THE BOWEL ACTION AND IMPROVING THE DIGESTION. WILLIAM J. HURLEY, Chicago, Ill.
Filed January 2, 1920. Serial No. 126,729. PUBLISHED MAY 18, 1920.

134,688. TONIC FOR AIDING THE DIGESTIVE ORGANS AND IMPROVING THE APPETITE. WILLIAM J. HURLEY, Chicago, Ill.
Filed January 2, 1920. Serial No. 126,730. PUBLISHED MAY 18, 1920.

134,689. DEODORANTS AND PREPARATIONS FOR THE RELIEF OF EXCESSIVE PERSPIRATION. CARL B. IMRIE, Brooklyn, N. Y.
Filed January 19, 1920. Serial No. 127,286. PUBLISHED MAY 11, 1920.

134,690. TABLE BALL GAME. ALBERT SAMUEL ILES, Birmingham, England.
Filed November 25, 1919. Serial No. 125,284. PUBLISHED MAY 18, 1920.

134,691. MOTOR-TRUCKS. INDIANA TRUCK CORPORATION, Marion, Ind.
Filed September 13, 1918. Serial No. 113,160. PUBLISHED APRIL 20, 1920.

134,692. COMPOSITION FIREPROOF FLOORINGS AND COVERINGS FOR PARTITIONS, WALLS, AND ROOFINGS. "J. D." INSULATING & REFRIGERATING CO. LTD., Liverpool, England.
Filed October 25, 1919. Serial No. 124,180. PUBLISHED MAY 11, 1920.

134,693. CERTAIN NAMED CLOTHING. JENNINGS LACE WORKS CORP., Brooklyn, N. Y.
Filed March 2, 1920. Serial No. 129,145. PUBLISHED MAY 11, 1920.

134,694. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. JOHNSON CITY MILLS, Johnson City, Tenn.
Filed January 14, 1919. Serial No. 115,178. PUBLISHED MAY 11, 1920.

134,695. CORN REMEDIES, COUGH MEDICINE, A LINIMENT, AND HAIR-TONIC. JOSEPH C. JONAS, Brooklyn, N. Y.
Filed October 15, 1919. Serial No. 123,811. PUBLISHED MAY 18, 1920.

134,696. TOBACCO-SEED. WILL S. JUDY, Lexington, Ky.
Filed September 26, 1919. Serial No. 123,198. PUBLISHED APRIL 20, 1920.

134,697. SOAP. ADOLF KASSER, Philadelphia, Pa.
Filed March 11, 1920. Serial No. 129,553. PUBLISHED MAY 18, 1920.

134,698. POMADE HAIR-DRESSING. JACOB J. KAUFMAN, Columbus, Ga.
Filed December 9, 1919. Serial No. 125,752. PUBLISHED MAY 18, 1920.

134,699. DEODORANT, INSECTICIDE, AND ROACH-POWDER. WALTER KENDORSKI, Philadelphia, Pa.
Filed February 28, 1919. Serial No. 116,205. PUBLISHED MAY 11, 1920.

134,700. SULFURETED OIL TO BE USED IN EMULSIFYING RAW OILS. EMILE F. KICK, Newark, N. J.
Filed March 18, 1919. Serial No. 116,685. PUBLISHED APRIL 27, 1920.

134,701. HAIR-TONIC. ELIZABETH KIGER, Birmingham, Ala.
Filed December 15, 1919. Serial No. 126,039. PUBLISHED MAY 11, 1920.

134,702. RADIO TELEGRAPH AND TELEPHONE APPARATUS. KILBOURNE & CLARK MANUFACTURING Co., Seattle, Wash.
Filed January 13, 1920. Serial No. 127,091. PUBLISHED MAY 11, 1920.

134,703. PLANS FOR BUILDINGS PRINTED BY THE BLUE-PRINT PROCESS. KING VENTILATING COMPANY, Owatonna, Minn.
Filed October 4, 1919. Serial No. 123,436. PUBLISHED FEBRUARY 10, 1920.

134,704. OINTMENT FOR THE RELIEF OF COLDS IN THE HEAD AND CHAPPED SKIN. EDWARD H. KOSS, Washington, D. C.
Filed March 25, 1920. Serial No. 130,172. PUBLISHED MAY 18, 1920.

134,705. HIDES AND LEATHER. KULLMAN, SALZ & Co., San Francisco, Calif.
Filed March 14, 1919. Serial No. 116,576. PUBLISHED APRIL 20, 1920.

134,706. HAIR-TONIC. SONIA KURMAN, New York, N. Y.
Filed November 11, 1919. Serial No. 124,758. PUBLISHED APRIL 27, 1920.

134,707. HIGH-TEMPERATURE CEMENT FOR THE CONSTRUCTION AND REPAIR OF FURNACES. LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo.
Filed January 23, 1919. Serial No. 115,391. PUBLISHED MAY 18, 1920.

134,708. AUTOMOBILE AND FURNITURE POLISH. LAMB RAILWAY SERVICE CO., LTD., Windsor, Canada, and Detroit, Mich.
Filed February 20, 1920. Serial No. 128,690. PUBLISHED MAY 18, 1920.

134,709. TOY AIRPLANES. LAWRENCE AIRPLANE MODEL AND SUPPLY COMPANY, Chicago, Ill.
Filed May 12, 1919. Serial No. 118,389. PUBLISHED MAY 11, 1920.

134,710. SARDINES. LAWRENCE CANNING CO., Rockland, Me.
Filed February 28, 1920. Serial No. 129,016. PUBLISHED MAY 4, 1920.

134,711. CERTAIN NAMED TOILET PREPARATIONS. LAZELL PERFUMER, Newburgh, N. Y.
Filed October 15, 1919. Serial No. 123,813. PUBLISHED MAY 18, 1920.

134,712. RUBBER TIRES. LIBERTY STEEL PRODUCTS COMPANY, INC., New York, N. Y.
Filed June 9, 1919. Serial No. 119,348. PUBLISHED APRIL 27, 1920.

134,713. COLORING-MATTERS FOR FOODS AND LIQUIDS. LICHTENSTEIN & COMPANY LIMITED, Uxbridge, England.
Filed December 31, 1919. Serial No. 126,691. PUBLISHED MAY 11, 1920.

134,714. CIGARETTES. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed January 17, 1920. Serial No. 127,250. PUBLISHED MAY 11, 1920.

134,715. EXPECTORANT AND BRONCHIAL SEDATIVE. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed January 3, 1920. Serial No. 126,765. PUBLISHED APRIL 27, 1920.

134,716. THREAD AND YARN. H. E. LOCKE & COMPANY, INC., Boston, Mass.
Filed July 21, 1919. Serial No. 120,758. PUBLISHED MAY 11, 1920.

134,717. INSULATORS FOR HIGH-TENSION INSULATION. THE LOCKE INSULATOR MANUFACTURING COMPANY, Baltimore, Md.
Filed January 26, 1920. Serial No. 127,597. PUBLISHED MAY 11, 1920.

134,718. DRESS, NEGLIGÉE AND WORK SHIRTS. SAMUEL LONDON & CO. INC., New York, N. Y.
Filed February 16, 1920. Serial No. 128,448. PUBLISHED MAY 11, 1920.

134,719. MEDICINE FOR THE TREATMENT OF TICK-FEVER IN ANIMALS. LONE PRAIRIE REMEDIES CO., San Antonio, Tex.
Filed January 2, 1920. Serial No. 126,733. PUBLISHED APRIL 27, 1920.

134,720. AUTOMOBILES. LOUISIANA MOTOR CAR COMPANY, INC., Shreveport, La.
Filed March 26, 1920. Serial No. 130,229. PUBLISHED MAY 11, 1920.

134,721. X-RAY APPARATUS FOR DETERMINING THE FIT OF FOOTWEAR. JACOB J. LOWE, Boston, Mass.
Filed March 6, 1920. Serial No. 129,329. PUBLISHED APRIL 27, 1920.

134,722. CERTAIN NAMED TOILET PREPARATIONS. THE LUSTR-ITE CORPORATION, Brooklyn, N. Y.
Filed December 12, 1919. Serial No. 125,893. PUBLISHED MAY 18, 1920.

134,723. PATTERN-HATS FOR MISSES, WOMEN, AND CHILDREN. LYNN-KERR & CO., Louisville, Ky.
Filed September 29, 1919. Serial No. 123,267. PUBLISHED MAY 18, 1920.

134,724. RUBBER OR RUBBER AND FABRIC TIRES AND TUBES FOR VEHICLES. MCCLAREN RUBBER COMPANY, Charlotte, N. C.
Filed December 29, 1919. Serial No. 126,587. PUBLISHED MAY 18, 1920.

134,725. MEDICINE USED IN THE TREATMENT OF CHILLS, FEVER, MALARIA, COLDS, AND GRIPPE. FURMAN B. MCCRACKIN, Bamberg, S. C.
Filed December 8, 1919. Serial No. 125,717. PUBLISHED MAY 18, 1920.

134,726. APPARATUS FOR THERAPEUTIC PURPOSES. MCINTOSH BATTERY AND OPTICAL CO., Chicago, Ill.
Filed September 21, 1918. Serial No. 113,297. PUBLISHED MAY 18, 1920.

134,727. LINGERIE-CLASPS, SCARF-CLASPS, COLLAR-CLASPS, AND BIB-CLASPS. M. & G. NOVELTY CO., Attleboro, Mass.
Filed March 2, 1920. Serial No. 129,149. PUBLISHED MAY 18, 1920.

134,728. CERTAIN NAMED CLOTHING FOR MEN AND BOYS. MADANSKY BROTHERS, INC., Oklahoma, Okla.
Filed September 12, 1919. Serial No. 122,604. PUBLISHED MAY 11, 1920.

134,729. COLD-WATER PAINT. AUGUST ERNEST MAIRE, Minneapolis, Minn.
Filed November 7, 1919. Serial No. 124,658. PUBLISHED MAY 11, 1920.

134,730. LIQUID ANTISEPTIC. ALEXANDER SEYMOUR MANN, Providence, R. I.
Filed February 3, 1919. Serial No. 115,596. PUBLISHED APRIL 27, 1920.

134,731. CIGARS. MANY BLANC & Co., Chicago, Ill.
Filed December 12, 1919. Serial No. 125,900. PUBLISHED MAY 11, 1920.

134,732. PHONOGRAPHS. ANDREW A. MANGHISI, West Hoboken, N. J.
Filed February 17, 1920. Serial No. 128,512. PUBLISHED MAY 11, 1920.

134,733. LAXATIVE MEDICINAL REMEDIES. EDWARD R. MARTEN, St. Louis, Mo.
Filed January 12, 1920. Serial No. 127,064. PUBLISHED MAY 18, 1920.

134,734. INSECTICIDE AND VERMIN-EXTERMINATOR. C. J. MARTIN, Austin, Tex.
Filed March 31, 1920. Serial No. 130,426. PUBLISHED MAY 18, 1920.

134,735. LIQUID PREPARATION FOR CERTAIN NAMED PURPOSES. THE MASTER BUILDERS COMPANY, Cleveland, Ohio.
Filed September 18, 1918. Serial No. 113,225. PUBLISHED MAY 18, 1920.

134,736. FELT MATTRESSES. THE MEBANE BEDDING CO., Mebane, N. C.
Filed December 15, 1919. Serial No. 126,051. PUBLISHED MAY 11, 1920.

134,737. CERTAIN NAMED PRINTS AND PUBLICATIONS. MEDICI SOCIETY—AMERICAN BRANCH—INC., Boston, Mass.
Filed June 22, 1917. Serial No. 104,618. PUBLISHED MAY 25, 1920.

134,738. PIANOS. PAUL G. MEHLIN & SONS, New York, N. Y.
Filed January 20, 1920. Serial No. 127,382. PUBLISHED MAY 18, 1920.

134,739. EMBROIDERY-WOOL, WOOL THREADS, AND THREADS MADE OF LINEN, COTTON, METAL, OR SILK, EITHER ARTIFICIAL OR FIBER. C. R. MEISSNER CO. INC., New York, N. Y.
Filed March 17, 1920. Serial No. 129,852. PUBLISHED MAY 11, 1920.

134,740. ANTISEPTIC AND HEALING OINTMENT. HAROLD T. MELHUISH, Amityville, N. Y.
Filed January 21, 1920. Serial No. 127,440. PUBLISHED MAY 11, 1920.

134,741. LEATHER. MERCHANT LOVEYS LEATHER CO., Boston, Mass.
Filed November 17, 1919. Serial No. 125,004. PUBLISHED APRIL 20, 1920.

134,742. SILKS, SATINS, VELVETS, BROADCLOTHS, AND SERGE IN THE PIECE. JEROME METZLER, New York, N. Y.
Filed December 15, 1919. Serial No. 126,043. PUBLISHED APRIL 13, 1920.

134,743. CERTAIN NAMED TOILET PREPARATIONS. MEYER BROTHERS DRUG COMPANY, St. Louis, Mo.
Filed November 15, 1919. Serial No. 124,941. PUBLISHED MAY 11, 1920.

134,744. PLAYING-CARDS. MIDLAND PLAYING CARD CO., Chicago, Ill.
Filed December 29, 1919. Serial No. 126,589. PUBLISHED MAY 11, 1920.

134,745. WATERPROOF WRAPPING AND LINING PAPER. ANGIER MILLS, Ashland, Mass.
Filed January 7, 1918. Serial No. 108,337. PUBLISHED MAY 18, 1920.

134,746. MEN'S HATS. MT. TOM HAT MANUFACTURING COMPANY, INC., Easthampton, Mass.
Filed December 6, 1919. Serial No. 125,665. PUBLISHED MAY 11, 1920.

134,747. HOSIERY. MULLER EXPORT COMPANY INC., New York, N. Y., and Chicago, Ill.
Filed March 8, 1920. Serial No. 129,413. PUBLISHED MAY 18, 1920.

134,748. DOLLS. MURDOCK MACKAY GRAHAM, Boston, Mass.
Filed January 22, 1920. Serial No. 127,483. PUBLISHED MAY 18, 1920.

134,749. MEDICINAL TREATMENT FOR COLDS AND GRIPPE. ROBT. W. MURRAY, Birmingham, Ala.
Filed November 4, 1919. Serial No. 124,528. PUBLISHED APRIL 27, 1920.

134,750. CERTAIN NAMED NOTIONS. THE NARROW FABRIC CO., Wyomissing borough, near Reading, Pa.
Filed February 19, 1919. Serial No. 116,005. PUBLISHED MAY 11, 1920.

134,751. PLASTER OF PARIS OF NON-ADHESIVE CHARACTER FOR USE OF DENTISTS AND SURGEONS FOR LABORATORY WORK. NEWARK PLASTER COMPANY, Newark, N. J.
Filed May 9, 1919. Serial No. 118,321. PUBLISHED MAY 11, 1920.

134,752. CERTAIN NAMED MUSICAL INSTRUMENTS. NEW YORK BAND INSTR. CO. INC., New York, N. Y.
Filed January 17, 1920. Serial No. 127,255. PUBLISHED MAY 11, 1920.

134,753. DOLLS. NOTASEME HOSIERY COMPANY, Philadelphia, Pa.
Filed March 30, 1920. Serial No. 130,388. PUBLISHED MAY 18, 1920.

134,754. GRANULATED CHEMICAL CLEANING COMPOUNDS. OAKLEY CHEMICAL CO., New York, N. Y.
Filed July 11, 1918. Serial No. 112,071. PUBLISHED NOVEMBER 19, 1918.

134,755. PASTE SOAP. THE OHIO VARNISH COMPANY, Cleveland, Ohio.
Filed May 9, 1919. Serial No. 118,325. PUBLISHED MAY 18, 1920.

134,756. HAIR-DYES AND HAIR-SHAMPOO. ORI-ORI COMPANY, New York, N. Y.
Filed August 8, 1919. Serial No. 121,409. PUBLISHED JANUARY 6, 1920.

134,757. TOILET AND SHAVING SOAP. SOLON PALMER, New York, N. Y.
Filed March 10, 1920. Serial No. 129,512. PUBLISHED MAY 18, 1920.

134,758. TIRE-REPAIR OUTFITS COMPRISING RUBBER PATCHES AND CEMENT FOR ATTACHING SAME. THE PALMER TIRE COMPANY, Topeka, Kans.
Filed December 15, 1919. Serial No. 126,057. PUBLISHED MAY 18, 1920.

134,759. TANKS, TOOL-CHESTS, AND CANTEENS ESPECIALLY ADAPTED FOR USE ON AUTOMOBILES. SAMUEL C. PANDOLFO, St. Cloud, Minn.
Filed September 29, 1919. Serial No. 123,256. PUBLISHED MAY 18, 1920.

134,760. SOAP. BETTIE PARKER, Lackawanna, N. Y.
Filed February 25, 1920. Serial No. 128,895. PUBLISHED MAY 18, 1920.

134,761. KEROSENE. PETROLEUM PRODUCTS CO., San Francisco, Calif.
Filed June 17, 1918. Serial No. 111,625. PUBLISHED MAY 11, 1920.

134,762. ELECTRIC-LIGHT-FIXTURE PARTS. PHOENIX LIGHT COMPANY, Milwaukee, Wis.
Filed March 16, 1920. Serial No. 129,801. PUBLISHED MAY 18, 1920.

134,763. MONTHLY MAGAZINE. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed September 15, 1919. Serial No. 122,725. PUBLISHED FEBRUARY 24, 1920.

134,764. DICE, DOMINOES, CHESS, CHECKERS, AND POKER-CHIPS. PIROXLOID PRODUCTS CORPORATION, New York, N. Y.
Filed November 26, 1919. Serial No. 125,330. PUBLISHED MAY 25, 1920.

134,765. PHONOGRAPHS. PLYMOUTH PHONOGRAPH CO., Plymouth, Wis.
Filed January 3, 1920. Serial No. 126,778. PUBLISHED MAY 11, 1920.

134,766. REMEDY TO PROMOTE THE GROWTH OF THE HAIR. CHARLES POETZL, Baltimore, Md.
Filed January 3, 1920. Serial No. 126,777. PUBLISHED MAY 11, 1920.

134,767. LINIMENTS, MEDICINES, REMEDIES, TOOTHACHE-DROPS, TONICS, PILLS, PAIN-RELIEVER, HERB TEA, SALVE, AND EYE-WATER. THE POLONIA DRUG COMPANY, Philadelphia, Pa.
Filed April 25, 1919. Serial No. 117,852. PUBLISHED MAY 18, 1920.

134,768. CERTAIN NAMED INKS. POMEROY INK MANUFACTURING CO., Newark, N. J.
Filed February 9, 1920. Serial No. 128,167. PUBLISHED MAY 18, 1920.

134,769. CERTAIN NAMED INKS. POMEROY INK MANUFACTURING CO., Newark, N. J.
Filed February 9, 1920. Serial No. 128,168. PUBLISHED MAY 18, 1920.

134,770. CERTAIN NAMED PUBLICATIONS. POOR'S PUBLISHING COMPANY, New York, N. Y.
Filed October 27, 1919. Serial No. 124,230. PUBLISHED FEBRUARY 24, 1920.

134,771. PREPARATION FOR WATERPROOFING AND PRESERVING AUTOMOBILE-TOPS AND SIMILAR ARTICLES. WILLIAM B. PRICE, Poughkeepsie and New York, N. Y.
Filed January 21, 1920. Serial No. 127,447. PUBLISHED MAY 18, 1920.

134,772. PAPER-PULP. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed February 11, 1920. Serial No. 128,276. PUBLISHED APRIL 13, 1920.

134,773. SOAP. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed February 27, 1920. Serial No. 128,980. PUBLISHED MAY 18, 1920.

134,774. CIGARS. PROGRESSIVE CIGAR CORPORATION OF PHILADELPHIA, Philadelphia, Pa.
Filed December 24, 1919. Serial No. 126,424. PUBLISHED APRIL 13, 1920.

134,775. SHIRTS (DRESS, NEGLIGÉE, AND WORK,) COLLARS, AND CUFFS. QUAKER CITY SHIRT MANUFACTURING COMPANY, Norristown, Pa.
Filed January 8, 1920. Serial No. 126,944. PUBLISHED MAY 18, 1920.

134,776. FOREHEAD AND UNDER-CHIN PADS. RADIOR CO. LTD. OF LONDON, New York, N. Y.
Filed November 24, 1919. Serial No. 125,243. PUBLISHED MAY 18, 1920.

134,777. AGRICULTURAL SEEDS AND NURSERY STOCK. RANDALL-MCLOUGHLIN CO., Seattle, Wash.
Filed August 13, 1919. Serial No. 121,639. PUBLISHED APRIL 20, 1920.

134,778. RAW FURS. RELIANCE FUR DYEING INC., Paterson, N. J.
Filed March 8, 1919, Serial No. 116,427. PUBLISHED APRIL 20, 1920.

134,779. LAXATIVE TABLETS AND TONIC FOR INTERNAL USE AS A RECONSTRUCTIVE AND SYSTEM-BUILDING PREPARATION. RETONA PRODUCTS COMPANY, Dayton, Ohio.
Filed September 15, 1919. Serial No. 122,732. PUBLISHED APRIL 27, 1920.

134,780. TRUNKS, TRAVELING-BAGS, SUITCASES, AND BRIEF-CASES. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed December 13, 1919. Serial No. 125,974. PUBLISHED MAY 11, 1920.

134,781. NON-ALCOHOLIC MALTLESS SYRUP AND BEVERAGE MADE THEREFROM SOLD AS A SOFT DRINK. RICHARDSON CORPORATION, Rochester, N. Y.
Filed January 19, 1920. Serial No. 127,329. PUBLISHED APRIL 6, 1920.

134,782. LADIES' HANDBAGS. RITTER BROS., New York, N. Y.
Filed January 10, 1920. Serial No. 127,152. PUBLISHED MAY 11, 1920.

134,783. CHILDREN'S DRESSES. RITZWOLLER & CO., INC., New York, N. Y.
Filed February 21, 1920. Serial No. 128,744. PUBLISHED MAY 11, 1920.

134,784. TRUNKS, SUITCASES, TRAVELING-BAGS, AND HANDBAGS. ROGERS & MADISON TRUNK CORPORATION, Petersburg, Va.
Filed January 17, 1920. Serial No. 127,262. PUBLISHED MAY 18, 1920.

134,785. OVERALLS FOR MEN AND BOYS. ROSENBAUM BROTHERS, Salt Lake City, Utah.
Filed October 2, 1919. Serial No. 123,367. PUBLISHED APRIL 6, 1920.

134,786. BAKING-POWDER. RUMFORD CHEMICAL WORKS, Providence, R. I.
Filed October 4, 1919. Serial No. 123,454. PUBLISHED MAY 18, 1920.

134,787. POLISH, CLEANING, AND PRESERVING PREPARATIONS FOR STOVES. RUSSIA CEMENT COMPANY, Gloucester, Mass.
Filed February 17, 1920. Serial No. 128,523. PUBLISHED MAY 18, 1920.

134,788. TRESTLES OF THE PORTABLE VARIETY, SUCH AS ARE USED FOR WORK-SUPPORTS. THE SAFETY EQUIPMENT COMPANY, Cleveland, Ohio.
Filed December 31, 1919. Serial No. 126,699. PUBLISHED MAY 11, 1920.

134,789. SALVE FOR THE TREATMENT OF BRUISES, PIMPLES, ECZEMA, AND ALL SKIN DISEASES. TEDDEY SAPBONIK, Buchanan, Saskatchewan, Canada.
Filed June 25, 1919. Serial No. 119,964. PUBLISHED APRIL 27, 1920.

134,790. MATTRESSES. SALISBURY & SATTERLEE CO., Minneapolis, Minn.
Filed February 12, 1920. Serial No. 128,328. PUBLISHED MAY 11, 1920.

134,791. MATTRESSES, METAL BEDS, COUCHES, CRIBS, BED-SPRINGS, AND COTS. SALISBURY & SATTERLEE CO., Minneapolis, Minn.
Filed February 20, 1920. Serial No. 128,703. PUBLISHED MAY 18, 1920.

134,792. GARDEN, FIELD, AND FLOWER SEEDS. JOHN A. SALZER SEED CO., La Crosse, Wis.
Filed December 30, 1919. Serial No. 126,659. PUBLISHED APRIL 20, 1920.

134,793. HAND-MIRRORS, BONNET-MIRRORS, AND PICTURE-FRAMES. SAMSTAG & HILDER BROS., New York, N. Y.
Filed January 27, 1920. Serial No. 127,662. PUBLISHED MAY 18, 1920.

134,794. GAS, GASOLENE, AND KEROSENE WATER-HEATERS, AUTOMATIC INSTANTANEOUS WATER-HEATERS, AND HEATING-SECTIONS. THE SANDS MANUFACTURING COMPANY, Cleveland, Ohio.
Filed March 24, 1920. Serial No. 130,121. PUBLISHED MAY 11, 1920.

134,795. HIDES, SKINS, AND RAW FURS. LESLIE ARCHIBALD SCANDRETT, Sydney, New South Wales, Australia.
Filed December 4, 1918. Serial No. 114,486. PUBLISHED APRIL 20, 1920.

134,796. IMITATION FUR. ABRAHAM B. SCHNEIDER, New York, N. Y.
Filed January 10, 1920. Serial No. 127,016. PUBLISHED APRIL 20, 1920.

134,797. SAFFRON. HENRY SCHOENFELD, New York, N. Y.
Filed April 29, 1919. Serial No. 117,997. PUBLISHED MAY 11, 1920.

134,798. PASTE FOR SKIN IRRITATIONS, BITES, AND POISONINGS. F. W. SCHOONMAKER, INCORPORATED, New York, N. Y.
Filed May 29, 1919. Serial No. 119,053. PUBLISHED MAY 18, 1920.

134,799. WOMEN'S HATS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 20, 1920. Serial No. 128,706. PUBLISHED MAY 11, 1920.

134,800. HATS FOR CHILDREN AND MISSES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 28, 1920. Serial No. 129,023. PUBLISHED MAY 11, 1920.

134,801. BATTERY-TESTERS. SERVICE STATION SUPPLY CO., Detroit, Mich.
Filed March 1, 1920. Serial No. 129,097. PUBLISHED MAY 18, 1920.

134,802. LIQUID POLISH FOR FURNITURE. MAE SHERMAN, Cleveland, Ohio.
Filed August 17, 1918. Serial No. 112,773. PUBLISHED MAY 18, 1920.

134,803. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. SHIMAN-MILLER MANUFACTURING COMPANY, Newark, N. J.
Filed December 30, 1919. Serial No. 126,655. PUBLISHED MAY 18, 1920.

134,804. MATTRESSES. SILKHEART MATTRESS CO., Mebane, N. C.
Filed December 12, 1919. Serial No. 125,916. PUBLISHED MAY 4, 1920.

134,805. POWDERED LYE. THE SINCLAIR MANUFACTURING COMPANY, Toledo, Ohio.
Filed January 19, 1920. Serial No. 127,337. PUBLISHED MAY 11, 1920.

134,806. POWDERED LYE. THE SINCLAIR MANUFACTURING COMPANY, Toledo, Ohio.
Filed January 19, 1920. Serial No. 127,338. PUBLISHED MAY 11, 1920.

134,807. WEEKLY NEWSPAPERS. PANTELIS A. SIOBIS, New York, N. Y.
Filed October 13, 1919. Serial No. 123,760. PUBLISHED FEBRUARY 24, 1920.

134,808. BRIQUETS MADE FROM COAL. CHARLES HOWARD SMITH, Irvington, N. J., assignor to International Coal Products Corporation, Richmond, Va., a Corporation of Virginia.
Filed December 18, 1917. Serial No. 108,048. PUBLISHED MAY 11, 1920.

134,809. LIQUID CLEANSING COMPOUND FOR REMOVING GREASE-SPOTS FROM FABRICS. MAURICE SOLOMON, Cincinnati, Ohio.
Filed April 2, 1917. Serial No. 102,673. PUBLISHED MAY 18, 1920.

134,810. CERTAIN NAMED FURNITURE. SOMMA SHOPS INC., New York, N. Y.
Filed September 10, 1919. Serial No. 122,556. PUBLISHED MAY 4, 1920.

134,811. DYESTUFFS. SONN BROTHERS COMPANY, New York, N. Y., assignor to Sonn Brothers Import & Export Co. of N. Y., Inc., New York, N. Y., a Corporation of Delaware.
Filed December 16, 1919. Serial No. 126,146. PUBLISHED MAY 18, 1920.

134,812. DYESTUFFS. SONN BROTHERS COMPANY, New York, N. Y., assignor to Sonn Brothers Import & Export Co. of N. Y., Inc., New York, N. Y., a Corporation of Delaware.
Filed December 16, 1919. Serial No. 126,147. PUBLISHED MAY 18, 1920.

134,813. DYESTUFFS. SONN BROTHERS COMPANY, New York, N. Y., assignor to Sonn Brothers Import & Export Co. of N. Y., Inc., New York, N. Y., a Corporation of Delaware.
Filed December 16, 1919. Serial No. 126,148. PUBLISHED MAY 18, 1920.

134,814. DYESTUFFS. SONN BROTHERS COMPANY, New York, N. Y., assignor to Sonn Brothers Import & Export Co. of N. Y., Inc., New York, N. Y., a Corporation of Delaware.
Filed December 16, 1919. Serial No. 126,149. PUBLISHED MAY 18, 1920.

134,815. DYESTUFFS. SONN BROTHERS COMPANY, New York, N. Y., assignor to Sonn Brothers Import & Export Co. of N. Y., Inc., New York, N. Y., a Corporation of Delaware.
Filed December 16, 1919. Serial No. 126,151. PUBLISHED MAY 18, 1920.

134,816. DYESTUFFS. SONN BROTHERS COMPANY, New York, N. Y., assignor to Sonn Brothers Import & Export Co. of N. Y., Inc., New York, N. Y., a Corporation of Delaware.
Filed December 16, 1919. Serial No. 126,152. PUBLISHED MAY 18, 1920.

134,817. MEDICINE FOR THE TREATMENT OF MUMPS, MEASLES, CHOLERA, AND LIVER TROUBLES IN HOGS. SONS AND DAUGHTERS OF LEVI, Dothan, Ala., assignors to Martin and Hill, Dothan, Ala., a Firm composed of General W. Martin and Peter J. Hill.
Filed November 18, 1919. Serial No. 125,065. PUBLISHED MAY 18, 1920.

134,818. ISOPROPYL ALCOHOL. STANDARD OIL COMPANY, New York, N. Y.
Filed January 17, 1920. Serial No. 127,265. PUBLISHED MAY 11, 1920.

134,819. CIGARETTES. STANDARD TOBACCO COMPANY, INC., New York, N. Y.
Filed September 13, 1918. Serial No. 122,666. PUBLISHED MAY 25, 1920.

134,820. CERTAIN NAMED SEEDS. THE STANFORD SEED CO., INC., Binghamton, Buffalo, and Albany, N. Y.
Filed August 13, 1919. Serial No. 121,646. PUBLISHED JANUARY 20, 1920.

134,821. ELECTRICAL TRANSFORMERS. THE STATES COMPANY, Hartford, Conn.
Filed March 20, 1920. Serial No. 129,991. PUBLISHED MAY 18, 1920.

134,822. AUTOMOBILE-TIRE PATCHES AND INNER LINERS. EDGAR M. STELL, Spokane, Wash., assignor to Porcupine Manufacturing Company, Spokane, Wash.
Filed August 18, 1919. Serial No. 121,788. PUBLISHED MAY 11, 1920.

134,823. AUTOMOBILE AND FURNITURE POLISH. E. E. STITZEL & SON, Philadelphia, Pa.
Filed February 17, 1920. Serial No. 128,532. PUBLISHED MAY 18, 1920.

134,824. NATURAL PREPARED FLORAL WREATH. GUSTAV L. STRAUB, New York, N. Y.
Filed April 20, 1920. Serial No. 131,401. PUBLISHED JUNE 15, 1920.

134,825. MEN'S SOFT SILK COLLARS. BENJAMEN STROMBERG, New York, N. Y.
Filed February 16, 1920. Serial No. 128,476. PUBLISHED MAY 18, 1920.

134,826. ANNEALING, TEMPERING, FORGING, CASE-HARDENING, AND MELTING METALLURGICAL FURNACES. THE STRONG, CARLISLE & HAMMOND COMPANY, Cleveland, Ohio.
Filed March 10, 1920. Serial No. 129,515. PUBLISHED MAY 11, 1920.

134,827. TIRE, TUBE, AND CASING PATCH. W. L. TEDFORD, Little Rock, Ark.
Filed November 24, 1919. Serial No. 125,261. PUBLISHED APRIL 20, 1920.

134,828. ELECTRIC LAMPS, CANDELABRA, AND CANDLESTICKS, ELECTROLIERS, AND ELECTRIC POCKET-LIGHTS. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,232. PUBLISHED MAY 11, 1920.

134,829. ELECTRIC LAMPS, CANDELABRA, AND CANDLESTICKS, ELECTROLIERS, AND ELECTRIC POCKET-LIGHTS. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,233. PUBLISHED MAY 11, 1920.

134,830. WIRE, AND PARTICULARLY MAGNET-WIRE. THE TOLEDO ENAMELED WIRE PRODUCTS CO., Toledo, Ohio.
Filed February 7, 1920. Serial No. 128,120. PUBLISHED MAY 18, 1920.

134,831. CRIB-BEDS. TRADERS' BOX & LUMBER COMPANY, Rochester, N. Y.
Filed July 22, 1919. Serial No. 120,806. PUBLISHED DECEMBER 9, 1919.

134,832. VERMIFUGE AND REMEDIES FOR INDIGESTION, BILIOUSNESS, HEADACHE, COLDS, AND DISEASES OF THE STOMACH AND LIVER. DR. J. F. TRUE & CO., INC., Auburn, Me.
Filed January 9, 1920. Serial No. 126,979. PUBLISHED MAY 11, 1920.

134,833. SHOES OF LEATHER AND A COMBINATION OF LEATHER AND FABRIC. THE W. E. TUTTLE CO., Rochester, N. Y.
Filed February 3, 1920. Serial No. 127,949. PUBLISHED MAY 18, 1920.

134,834. SMOKING-TOBACCO. UNITED DRUG COMPANY, Boston, Mass.
Filed December 15, 1919. Serial No. 126,078. PUBLISHED MAY 11, 1920.

134,835. PREPARATION HAVING DEODORANT, ANTISEPTIC, AND PERSPIRATION-ABSORBENT PROPERTIES. UNITED DRUG COMPANY, Boston, Mass.
Filed December 26, 1919. Serial No. 126,497. PUBLISHED MAY 11, 1920.

134,836. LUBRICATING OILS AND GREASES. UNITED PRODUCTS & SALES CORPORATION, San Francisco, Calif.
Filed November 28, 1919. Serial No. 125,411. PUBLISHED MAY 11, 1920.

134,837. ARCTICS. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed November 14, 1919. Serial No. 124,922. PUBLISHED MAY 11, 1920.

134,838. LIQUID PREPARATION FOR SURFACE FINISH IN THE NATURE OF A VARNISH. VAN CAMP HARDWARE & IRON COMPANY, Indianapolis, Ind.
Filed March 2, 1920. Serial No. 129,157. PUBLISHED MAY 11, 1920.

134,839. SERVING-TABLES. THE JOHN VAN RANGE CO., Cincinnati, Ohio.
Filed December 20, 1919. Serial No. 126,296. PUBLISHED MAY 4, 1920.

134,840. PHONOGRAPH-CABINETS. THE VERATONE PHONOGRAPH CO., Marietta, Ohio.
Filed December 4, 1919. Serial No. 125,588. PUBLISHED MAY 18, 1920.

134,841. AUTOMOBILE-POLISH. ANNA MYRTLE VESPER, San Francisco, Calif.
Filed June 30, 1919. Serial No. 120,144. PUBLISHED MAY 18, 1920.

134,842. JAR-RUBBERS. WALKER MATTESON COMPANY, Joliet, Ill.
Filed December 29, 1919. Serial No. 126,606. PUBLISHED APRIL 27, 1920.

134,843. PRINTED SONGS, SHEET-MUSIC, AND BOOK OF SONGS. WALLACE & FREED INCORPORATED, Seattle, Wash.
Filed September 30, 1919. Serial No. 123,295. PUBLISHED FEBRUARY 10, 1920.

134,844. CAKES. WARD BAKING COMPANY, New York, N. Y.
Filed June 17, 1918. Serial No. 111,632. PUBLISHED JANUARY 28, 1919.

134,845. HAIR-GROWER. MAMIE E. WATSON, Jackson, Miss.
Filed December 22, 1919. Serial No. 126,338. PUBLISHED MAY 18, 1920.

134,846. UNDERWEAR FOR MEN AND WOMEN. WATTS, RITTER & COMPANY, Huntington, W. Va., and New York, N. Y.
Filed February 20, 1920. Serial No. 128,716. PUBLISHED MAY 11, 1920.

134,847. MECHANICAL MUSIC-PLAYING INSTRUMENTS AND MUSIC-ROLLS THEREFOR. THE WILCOX & WHITE CO., Meriden, Conn.
Filed November 19, 1919. Serial No. 125,097. PUBLISHED MAY 18, 1920.

134,848. ARTICLES OF JEWELRY FOR PERSONAL WEAR. W. REED WILLIAMS (1908) LIMITED, London, England.
Filed December 10, 1919. Serial No. 125,819. PUBLISHED MAY 18, 1920.

134,849. MEDICINE USED IN THE TREATMENT OF HEADACHE, NEURALGIA, RHEUMATISM, NEURITIS, AND COLDS. HAROLD G. WILSON, Titusville, Fla.
Filed November 3, 1919. Serial No. 124,505. PUBLISHED MAY 18, 1920.

134,850. SPARK-PLUG INTENSIFIERS. JOHN F. WING, Maywood, Ill.
Filed February 20, 1919. Serial No. 116,121. PUBLISHED MAY 18, 1920.

134,851. ATHLETIC SHOES. WISCONSIN SHOE COMPANY, Milwaukee, Wis.
Filed February 9, 1920. Serial No. 128,189. PUBLISHED MAY 18, 1920.

134,852. SHOES. THE WISH, SHAW & FEDER COMPANY, Cincinnati, Ohio.
Filed March 15, 1920. Serial No. 129,770. PUBLISHED MAY 25, 1920.

134,853. LINIMENT. GEORGE H. WOOD, Boston, Mass.
Filed December 2, 1919. Serial No. 125,519. PUBLISHED MAY 18, 1920.

134,854. PREPARATION FOR THE TREATMENT OF CERTAIN NAMED DISEASES. WRIGHT & LAWRENCE, Chicago, Ill.
Filed January 19, 1920. Serial No. 127,843. PUBLISHED MAY 11, 1920.

134,855. PAPER BOXES AND CARTONS. PHILIP ZALKIND, New York, N. Y.
Filed December 23, 1919. Serial No. 126,407. PUBLISHED MAY 18, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920.]

SEPTEMBER 14, 1920.

134,856. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANGLO-AMERICAN PHARMACEUTICAL CORPORATION, New York, N. Y. Filed Mar. 12, 1919. Serial No. 116,478.

PLASMA

Particular description of goods.—Antiseptic Powder.
Claims use since the year 1915.

134,857. (CLASS 12. CONSTRUCTION MATERIALS.) BUTZ BROS., INC., New York, N. Y. Filed July 19, 1920. Serial No. 135,130.

Steelbilt

Particular description of goods.—Toilet Stalls and Doors and Shower-Bath Partitions.
Claims use since Jan. 1, 1918.

134,858. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed May 28, 1920. Serial No. 133,050.

KITCHEN KLENZER

Particular description of goods.—Certain Named Cleaning Compound.
Claims use since February, 1908.

HOLIC.) INTERSTATE COMMERCE COMPANY, Richmond,

134,859. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed July 15, 1920. Serial No. 135,000.

MANUSCRIPT

Particular description of goods.—Writing-Paper.
Claims use since Apr. 19, 1919.

134,860. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) FOXLEY STAVE & LUMBER CO., LTD., New Orleans, La. Filed July 24, 1920. Serial No. 135,364.

FOXLEY

Particular description of goods.—Staves.
Claims use since 1908.

134,861. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDWIN P. GLEASON'S SON, INC., New York, N. Y. Filed Dec. 20, 1919. Serial No. 126,278.

NOTLINEN

Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 13, 1919.

134,862. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) INTERSTATE COMMERCE COMPANY, Richmond, Va. Filed July 22, 1920. Serial No. 135,282.

CHERRY PUNCH

Particular description of goods.—Non-Alcoholic, Maltless, Non-Cereal Beverages Sold as Soft Drinks.
Claims use since July 1, 1911.

134,863. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PENN GRAINS AND FEED COMPANY, Philadelphia, Pa. Filed July 16, 1920. Serial No. 135,060.

PEERLESS

Particular description of goods.—Dairy Ration.
Claims use since about Mar. 1, 1905.

134,864. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE TORRINGTON COMPANY, Torrington, Conn. Filed July 7, 1920. Serial No. 134,677.

Torrington

Particular description of goods.—Electric Vacuum-Cleaners.
Claims use since on or about Aug. 1, 1916.

134,865. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNDERWOOD TYPEWRITER COMPANY, New York, N. Y. Filed May 12, 1920. Serial No. 132,374.

THE MACHINE YOU WILL EVENTUALLY BUY

Particular description of goods.—Typewriting-Machines and Typewriting-Machine Parts.
Claims use since about June, 1903.

134,866. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HORACE WATERS & Co., New York, N. Y. Filed May 13, 1920. Serial No. 132,418.

Chester

Particular description of goods.—Pianos.
Claims use since 1900.

134,867. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN D. WIRT, Frankfort, Ind. Filed June 3, 1920. Serial No. 133,236.

DR. WIRT'S GOLDEN WHEAT FOOD

Particular description of goods.—Cereal Foods—Namely, a Wheat Food for Breakfast, for Puddings, and a Basic Ingredient for the Making of Bread.
Claims use since Apr. 11, 1911.

134,868. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE YOUNGSTOWN SHEET & TUBE COMPANY, Youngstown, Ohio. Filed Oct. 22, 1917. Serial No. 106,903.

YOUNGSTOWN

Particular description of goods.—Iron and Steel Pipe, Wire, and Nails.
Claims use since June, 1914.

LABELS

REGISTERED SEPTEMBER 14, 1920.

22,100.—*Title:* "BOSACK'S PELINKO HORKE VINO." (For a Medicinal Tonic.) J. H. BOSACK MFG. CO., Wilkes-Barre, Pa. Filed August 6, 1920.

22,101.—*Title:* "GOLDEN STATE." (For Powdered Skim-Milk.) CALIFORNIA CENTRAL CREAMERIES, San Francisco, Calif. Filed April 29, 1920.

22,102.—*Title:* "THE PERSONAL WRITING MACHINE." (For Typewriting-Machines.) CORONA TYPEWRITER COMPANY, INC., Groton, N. Y. Filed May 20, 1920.

22,103.—*Title:* "INDIAN INK." (For Ink.) THE JOHN J. CROOKE COMPANY, New York, N. Y., and Chicago, Ill. Filed February 2, 1920.

22,104.—*Title:* "DR. EMERICK'S PEACHERB TABLETS, FRUIT HERB AND VEGETABLE EXTRACTS AND DR. EMERICK'S FAMOUS LAXATIVE BASE." (For Constipation, Biliousness, Dyspepsia, and Autotoxemia.) MARTIN L. EMERICK, M. D., Lancaster, Pa. Filed May 1, 1920.

22,105.—*Title:* "DR. EMERICK'S PEACHERB LAXATIVE TABLETS." (For a Medicine for Constipation.) MARTIN L. EMERICK, M. D., Lancaster, Pa. Filed May 1, 1920.

22,106.—*Title:* "GEORGE'S CRE-ME-EST COMPLEXION CREAM." (For a Container for Medicated Cold-Cream.) GEORGE A. FINKELMAN, Revere, Mass. Filed December 24, 1919.

22,107.—*Title:* "GARCIA SILVERIA." (For Cigars.) THE GREENMOUNT CIGAR COMPANY, Brooklyn, N. Y. Filed March 3, 1920.

22,108.—*Title:* "PLANTLIFE." (For a Fertilizer Compound.) ROY H. HOOVER, Freeport, Ill. Filed March 5, 1920.

22,109.—*Title:* "CUBAN GROWN." (For Cigars.) JOSEPH R. ISAACSON, Chicago, Ill. Filed March 17, 1919.

22,110.—*Title:* "THE ORIGINAL APOLLO." (For Cigars.) PETER KORDICK COMPANY, Chicago, Ill. Filed April 29, 1920.

22,111.—*Title:* "QUEEN ANNE SOAP POWDER." (For Soap Powder.) LAUTZ BROS. & Co., Buffalo, N. Y. Filed February 7, 1920.

22,112.—*Title:* "QUEEN ANNE SCOURER." (For a Scouring Preparation.) LAUTZ BROS. & Co., Buffalo, N. Y. Filed February 7, 1920.

22,113.—*Title:* COWHIDE." (For Overalls.) BEN LAYTIN, Omaha, Nebr. Filed April 29, 1920.

22,114.—*Title:* "DONO THE SQUARE DONUT." (For Doughnuts.) LEOFFLER FOOD PRODUCTS CO. INC., Washington, D. C. Filed May 4, 1920.

22,115.—*Title:* "UNEEK SALAD DRESSING." (For Containers Containing Salad-Dressing.) WILLIAM W. LEWIS, Seattle, Wash. Filed May 3, 1920.

22,116.—*Title:* "PURPLE SEAL PLAYTHINGS PICTURE BUILDER NO. 2." (For Educational Playthings—Namely, Picture-Builders.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,117.—*Title:* "PURPLE SEAL PLAYTHINGS PICTURE BUILDER NO. 3." (For Educational Playthings—Namely, Picture-Builders.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,118.—*Title:* "PURPLE SEAL PLAYTHINGS DESIGN BUILDER NO. 41." (For Educational Playthings—Namely, Design-Builders.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,119.—*Title:* "PURPLE SEAL PLAYTHINGS DESIGN BUILDER NO. 31." (For Educational Playthings—Namely, Design-Builders.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,120.—*Title:* "PURPLE SEAL PLAYTHINGS DESIGN BUILDER NO. 22." (For Educational Playthings—Namely, Design-Builders.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,121.—*Title:* "PURPLE SEAL PLAYTHINGS DESIGN BUILDER NO. 11." (For Educational Playthings—Namely, Design-Builders.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,122.—*Title:* "PURPLE SEAL PLAYTHINGS DESIGN BUILDER NO. 21." (For Educational Playthings—Namely, Design-Builders.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,123.—*Title:* "PURPLE SEAL PLAYTHINGS DESIGN BUILDER NO. 61." (For Educational Playthings—Namely, Design-Builders.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,124.—*Title:* "PURPLE SEAL PLAYTHINGS DESIGN BUILDER NO. 51." (For Educational Playthings—Namely, Design-Builders.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,125.—*Title:* "PURITAN MALT EXTRACT." (For Cans Containing Malt Extract.) JOSEPH E. MAGNUS, Chicago, Ill. Filed May 23, 1919.

22,126.—*Title:* "BLACK-IRON." (For Stove-Polishes.) Merrimac Packing Co., Lawrence, Mass. Filed May 1, 1920.

22,127.—*Title:* "MY-O-MY CHOCOLATES." (For Boxes Containing Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed May 8, 1920.

22,128.—*Title:* "CHOCOLATE COVERED NOUGATS." (For Boxes Containing Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed February 21, 1920.

22,129.—*Title:* "OLD STYLE CHOCOLATE CREAMS." (For Boxes Containing Chocolate Creams.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed February 24, 1920.

22,130.—*Title:* "CHOCOLATE COVERED CHERRIES." (For Boxes Containing Chocolate-Covered Cherries.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed March 5, 1920.

22,131.—*Title:* "MAGIC MARVEL." (For Packages Containing Washing-Powder.) L. MITCHELL & Co., Chicago, Ill. Filed February 24, 1920.

22,132.—*Title:* "DIXIE CHEWS." (For Candy.) NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J.; Columbus, Ohio, and New York, N. Y. Filed January 21, 1920.

22,133.—*Title:* "NO-LEAK-O OILSEALING." (For Piston-Rings.) NO-LEAK-O PISTON RING COMPANY, Baltimore, Md. Filed May 1, 1920.

22,134.—*Title:* "ZAY-TEK." (For Chocolate and Cocoa.) PENNSYLVANIA CHOCOLATE COMPANY, Pittsburgh, Pa. Filed March 31, 1920.

22,135.—*Title:* "HUNTER MALT." (For a Malt-Syrup.) OLIVER H. ROTH, Columbus, Ohio. Filed April 1, 1920.

22,136.—*Title:* "HOME PRIDE." (For Flour.) JULIUS RUMPEL, Weston, Mo. Filed February 17, 1919.

22,137.—*Title:* "BIRD DESIGN." (For Cartons Containing Hairpins.) STERLING PIN COMPANY, Derby, Conn. Filed May 8, 1920.

22,138.—*Title:* "USACUBA." (For Cigars.) WILLIAM L. VAN DYKE, Tampa, Fla. Filed April 15, 1920.

22,139.—*Title:* "SOME!!!" (For Cakes.) HENRY V. WALTERS, Long Branch, N. J. Filed March 27, 1920.

22,140.—*Title:* "MARTHA WASHINGTON." (For Boxes of Stationery and Writing-Tablets.) WHITE & WYCKOFF MFG. Co., Holyoke, Mass. Filed May 15, 1920.

PRINTS

REGISTERED SEPTEMBER 14, 1920.

5,336.—*Title:* "THE LARGEST SELLING QUALITY PENCIL IN THE WORLD." (For Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed May 18, 1920.

5,337.—*Title:* "THE LARGEST SELLING QUALITY PENCIL IN THE WORLD." (For Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed May 18, 1920.

5,338.—*Title:* "THE LARGEST SELLING QUALITY PENCIL IN THE WORLD." (For Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed May 18, 1920.

5,339.—*Title:* "IT SIMPLY ISN'T CHRISTMAS WITHOUT SPARROWS." (For Confectionery.) BOSTON CONFECTIONERY COMPANY, Cambridge, Mass. Filed February 21, 1920.

5,340.—*Title:* "LONG WEAR." (For Athletic Underwear.) THE B. V. D. COMPANY, New York, N. Y. Filed March 27, 1920.

5,341.—*Title:* "THE SNAPPY LINK." (For Cuff-Links.) JOHN A. CUNNINGHAM & Co., Attleboro, Mass. Filed February 3, 1920.

5,342.—*Title:* "COME IN LET US SHOW YOU DETMER UNIVERSITY NOVELTIES, LATEST SUITINGS." (For Detmer Woolens.) DETMER WOOLEN CO., New York, N. Y. Filed February 5, 1920.

5,343.—*Title:* "HEINZ FIG PUDDING." (For Heinz Fig-Pudding.) H. J. HEINZ COMPANY, Pittsburgh, Pa. Filed May 4, 1920.

5,344.—*Title:* "HEINZ TOMATO KETCHUP." (For Heinz Tomato Catchup.) H. C. HEINZ COMPANY, Pittsburgh, Pa. Filed May 5, 1920.

5,345.—*Title:* "HEINZ OVEN BAKED BEANS." (For Heinz Oven-Baked Beans.) H. J. HEINZ COMPANY, Pittsburgh, Pa. Filed May 5, 1920.

5,346.—*Title:* "FOR A LOVELY COMPLEXION AND GLORIOUS HAIR." (For Soap.) JAMES S. KIRK & COMPANY, Chicago, Ill. Filed March 15, 1920.

5,347.—*Title:* "NO-LEAK-O OILSEALING." (For Piston-Rings.) NO-LEAK-O PISTON RING COMPANY, Baltimore, Md. Filed May 1, 1920.

5,348.—*Title:* "SIMPLE HOME TREATMENT WHICH MAKES YOUR HAIR THICK AND BEAUTIFUL." (For a Shampoo.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed May 6, 1920.

5,349.—*Title:* "DEERFIELD." (For Oranges and Grapefruit.) E. P. PORCHER, Cocoa, Fla. Filed February 20, 1920.

5,350.—*Title:* "YOU'LL FUSS A PIPE LIKE IT'S THE NEW BABY." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,351.—*Title:* "HOW DO YOU GET THAT WAY?" (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

HOENIG *v.* PARKER.

Decided June 2, 1920.

1. PATENTS—INTERFERENCE—REDUCTION TO PRACTICE—SIMPLE DEVICE.

A two-part insulation having means for holding the parts in assembled relationship is of such a simple nature that it needed no test to show that it would do what was claimed for it.

2. SAME—SAME—ALLEGED ABANDONMENT—BURDEN OF PROOF.

In an interference proceeding one asserting the abandonment of the invention by another party has the burden of proving it, and where the only evidence relied upon is a delay of ten months after reduction to practice in filing the application for patent the burden is not sustained where the delay is explained by evidence of financial embarrassment.

Mr. E. Hume Talbert for the appellant.

Mr. George E. Tew and *Mr. George A. Rockwell* for the appellee.

SMYTH, *C. J.:*

This was a tri-party interference involving the application of Parker, filed January 8, 1915; Kendig, filed in February, 1915; and Hoenig, filed in October, 1915. It embraces but a single count, which reads:

> A device of the character described comprising a member with a passage; a member for attachment to a support and having a fixed head, the body of said attachment member extending through said passage, said fixed head positively preventing accidental withdrawal of the first-mentioned member from one end of said attachment member; and means to positively limit, at a predetermined point, movement of the first-mentioned member toward the tip of said attachment member.

The invention relates to two-part insulators and means for holding the parts in assembled relationship. The means consist of a nail passing through perforations in the cap and base portions, and a struck-up portion on the shank of the nail for positively limiting the movement of the nail and base in one direction. The issue is directed broadly to the means for positively limiting the movement.

The idea was to provide an insulator which could be assembled at the factory, shipped to the point of use and then readily installed. The Examiner of Interferences was of opinion that to prove reduction to practice it was necessary to show commercial use of the device, involving assembling, shipment, handling, and installation. He held that Parker and Kendig were entitled to their respective filing dates for reduction to practice, and that Hoenig should be given the last of December, 1914, for his time of conception, but that not having put the device into commercial use and because of the shortness of the nail used, he had not actually reduced to practice, and since he was not diligent between the time of conception and the date of filing, he must be confined to the latter date. Parker, was, therefore, awarded priority. Kendig did not appeal. Hoenig did.

The Board of Examiners held that Hoenig was entitled to the date given him by the Examiner of Interferences for conception; also that the device was of such a simple nature that it needed no test to show that it would do what was claimed for it, and that Hoenig should be allowed December 31, 1914, for actual reduction to practice. Differing, however, from the Examiner of Interferences with respect to Parker, they ruled that he, having prepared his application December 24, 1914, and filed it with due diligence January 8, 1915, was entitled to December 24 as the date of his invention, and, hence, to priority over Hoenig. The First Assistant Commissioner, ignoring Parker's application date, ruled that he was limited to his filing date, January 8, 1915, for constructive reduction to practice; rejected the testimony on behalf of Hoenig with respect to a conception and reduction to practice in December, 1914, and held that he had failed to establish that he had disclosed the invention prior to Parker's filing date, January 8, 1915. In consequence he awarded priority to Parker.

Parker asserts that he conceived and reduced to practice in 1913. We agree with the First Assistant Commissioner that the record does not sustain him in this. He is not entitled to any date before December 24, 1914, the date accorded him by the Board of Examiners.

Hoenig claims that about the middle of November he went to Pittsburgh to pay interest on a note given to the Baird Machinery Company in part payment for a large machine that he had previously purchased. While there he had a conversation with the purchasing agent of the Iron City Electrical Company, who spoke of the salability of a two-piece porcelain knob if it was economically put together for shipping and resale. Hoenig, who had extensive experience in porcelain-die making, says that shortly after his return from Pittsburgh he conceived the device of the issue, and about November 18 or 20 commenced to make a die to be used in producing it. He completed the die near January 1, 1915. On cross-examination he exhibited a canceled check dated November 18, 1914, and payable to the Baird Machinery Company, for the purpose of supporting his statement that he had paid the company money at that time. After completing the die he assembled, he says, two knobs—the insulators are sometimes spoken of as knobs—in the manner called for by the claim of the issue. This was done, he declared, in the presence of C. C. Smith, Worthen, and Lyde. The next day he showed the assembled knobs to Hellyer, J. T. Smith, and Hetzel.

C. C. Smith fully corroborated him in important particulars. He testified that he was a porcelain-die maker of several years' experience; that he was employed by Hoenig, and commenced work on the dies about the 1st of December, 1914. Hoenig supplied him sketches from which he worked. Along near the middle of December he learned that the dies on which he was employed were for the purpose of producing the device of the issue. One of the means by which he recalled the dates was the fact that at the time he worked on the dies, he also did some work for the Louthan Supply Company. This he remembers because from the work done for that company Hoenig, who was financially embarrassed, procured the money to pay him wages which were past due and for which he had been compelled to institute suit against Hoenig before one Bennett (presumably a justice of the peace, though he calls him a notary public) some time before Christmas, 1914. He says that he saw Hoenig put a die on the press and crimp two nails on it some two weeks after work on the dies had been started by him. Having described the die which was used, he then described the fins produced by it on the nail. He said in that connection that two halves of a knob were put together with a nail through it, and after the nail had been punched it left two little fins—the struck-up parts—one on each side of the nail. He thus indicated the invention of the issue. His testimony shows conception and disclosure by Hoenig before the middle of December, 1914, and reduction to practice as early as January 1, 1915.

J. T. Smith, after describing the invention by saying that it was a nail put through two parts of a knob, with two little "wickers" pressed on the nail, declared that he first saw it in Hoenig's machine-shop the first week in January, 1915, and he fixes the time by the circumstance that Hoenig was then back in his payments for some real estate which he had purchased from Smith in 1913. Hoenig in attempting to excuse his failure to make the payments when they became due, showed Smith the knob as a thing out of which he might get the money necessary to discharge the debt.

Worthen testified that he was also an employee of Hoenig; that he had talked with him about a patent knob in which he was interested, and then he described the knob by saying that it had a nail run through it—

and flattened out on the end or near the end, after it was assembled.

He fixes the time of the conversation by a job done by him for one Hammerton, but the year in which he did it is not satisfactorily established.

The other persons referred to above as being cognizant of what Hoenig had done were not called, but there is nothing to show that they were not available to Parker if he desired them. If C. C. Smith's story that he sued Hoenig for his wages near Christmas, 1914, was not true, it was very easy for Parker to contradict it. He tied his testimony to Christmas. It is most improbable that the things related took place at Christmas, 1915, for that was after all the parties to the interference had filed. On the other hand, if they transpired at Christmas, 1913, it would place Hoenig ahead of his rivals beyond a doubt. Hoenig and his witnesses were not mistaken. They either told the truth or deliberately falsified, and there is nothing in the record which would warrant so harsh a conclusion as the latter. We agree with the Board of Examiners that the invention is a simple one and that any person by trying a specimen could determine at once whether or not it would stand the strains to which it would be subjected in actual use. The record establishes that Hoenig conceived and disclosed the invention before the middle of December, 1914; that he reduced to practice as early as January 1, 1915, and was diligent in the meantime.

It is asserted by Parker that even if Hoenig was the first to conceive and reduce to practice, he abandoned his invention. We do not think so. The burden of affirmatively proving abandonment is on him who asserts it. (*Hathaway* v. *Field*, 48 App. D. C., 370, 371; 261 O. G., 413, and cases there cited.) The only evidence upon which Parker relies in this regard is the failure of Hoenig for about ten months after reducing to practice to file his application. This failure, we think, is sufficiently explained by his financial condition already referred to.

The decision of the Patent Office is reversed and priority awarded to Harry Edward Hoenig.

Reversed.

Mr. Justice VAN ORSDEL took no part in the consideration or decision of this case.

Court of Appeals of the District of Columbia.

LAMBERT *v.* HOPE AND LAMBERT.

Decided June 2, 1920.

1. PATENTS—INTERFERENCE—BURDEN OF PROOF—INADVERTENTLY-GRANTED PATENT.

In an interference between an inadvertently-granted patent and an application filed jointly by the patentee and another prior to the filing of the application on which the patent was granted the burden of proof is heavily upon the patentee.

2. SAME—SAME—EVIDENCE OF JOINT OR SOLE INVENTORSHIP.

In an interference between Lambert, whose patent was inadvertently granted during the pendency of an application filed jointly by him and Hope, evidence considered and *Held* that it failed to sustain Lambert's contention that he was the sole inventor.

Mr. Chas. C. Stauffer for the appellant.

Mr. Hervey S. Knight for the appellee.

VAN ORSDEL, *J.*:

This appeal is from an award of priority to appellees Hope and Lambert for an invention relating to an apparatus for drying wood veneer, consisting of a rectangular housing in which the material to be dried is placed, and heated air, acting directly upon the material, is drawn through the housing by means of a radiator in one end of the housing and a fan in the other. The single count of the issue reads as follows:

A dry kiln comprising a rectangular shaped housing, a radiator located in one end of said housing forming an end way thereof and provided with opening through which air may be drawn, the opposite end of said housing closed by an end wall, and an exhaust fan connecting with the interior of said housing through said wall.

It appears that Hope and Lambert filed a joint application November 29, 1915, and thereafter Lambert filed an individual application on May 8, 1916, which inadvertently went to patent June 5, 1917, while the joint application was copending. Lambert gains nothing by the issue of the patent to him, and, being the junior party and in the position of assailing a prior application in which he joined as joint inventor, the burden is heavily upon him.

In view of the prior art, the Commissioner expresses doubt as to the disclosure of a patentable invention, but by reason of the issuance of the patent to Lambert sustains the interference on the authority of *in re Orcutt*, (32 App. D. C., 345.) On this point the Commissioner said:

The small advance over the prior art in accordance with this decision shall be assumed for the purpose of this controversy to be patentable, but the very small advance should be kept in mind in reading the testimony, for example, Lambert criticizes Hope because he (Hope) does not state specifically the feature or features he contributed or suggested to the joint invention of Hope and Lambert. In view of these references (patent to Zappert of May 19, 1896, and patent to Soverhill of October 10, 1893) it is questioned if Lambert can specifically state what novel features he has added to the prior art and as he is entitled to claim only what is novel as his invention, his testimony as to what he invented must be weighed in the light of the prior art.

The testimony has taken a wide range, but considering only that material to the very narrow advancement over the prior art, we find no basis upon which the contention of Lambert can be sustained. He totally fails in his attempt to carry reduction to practice back to an earlier structure of 1894. In his effort to eliminate Hope from inventive cooperation in the present 1915 structure, he stands alone; while Hope is corroborated directly by his father and indirectly by Brown, the attorney, who prepared the joint application.

Without stopping to review the somewhat voluminous testimony, we fully agree with the conclusion of the Commissioner that—

Lambert joined Hope in executing the joint oath that they were joint inventors. As against Lambert's statement that this oath was fraudulently obtained, the two Hopes and Brown, the latter Lambert's own witness, deny this. The joint oath was not repudiated until Hope and Lambert quarreled, when Lambert filed his sole application. There is not a word of testimony to show that Lambert instead of Hope and Lambert invented anything novel over the prior art.

The decision of the Commissioner of Patents is affirmed, and the clerk is directed to certify these proceedings as by law required.

Affirmed.

Court of Appeals of the District of Columbia.

THE PROCTER AND GAMBLE COMPANY *v.* ENEY SHORTENING COMPANY.

Decided June 2, 1920.

1. TRADE-MARKS—SIMILARITY—"ESCO" AND "CRISCO."

The mark "Esco" is so similar to "Crisco" as to be likely to cause confusion when used on substantially identical goods.

2. SAME—SAME—ORIGIN HAS NO BEARING ON QUESTION OF IDENTITY.

That a mark is made up of the initials of the corporation applying for registration with the termination "Co." has no bearing on the question of its identity with another mark.

Mr. Paul Finckel for the appellant.

Mr. E. T. Fenwick for the appellee.

SMYTH, *C. J.*:

From a decision of the Patent Office overruling the opposition of The Procter and Gamble Company to the application of Eney Shortening Company for the registration of the sign "Esco" as a trade-mark for a lard substitute, the former appeals.

The opposer shows that it is the owner of the sign "Crisco" as a trade-mark for a lard substitute, and alleges that as its goods are of the same descriptive qualities as the goods of the applicant, the marks being similar, confusion would be likely to result in the minds of the public with respect to the origin of the goods upon which the marks appeared, and that, in consequence, the opposer would be damaged thereby, (33 Stat. L., 725, chap. 592, secs. 5 and 6.) The Examiner of Interferences sustained the opposer, but he was reversed by the First Assistant Commissioner, who held that no likelihood of confusion had been shown.

It is conceded that the goods are substantially identical. The only question, then, is as to whether or not the two marks are so similar as to be likely to produce confusion in the minds of purchasers with respect to the origin of the goods upon which they are used. As no testimony was taken we must determine it by an inspection of the marks themselves. What constitutes objectionable similarity in marks has been so often considered by this court (*Wayne County Preserving Co.* v. *Burt Olney Canning Co.*, 32 App. D. C., 279; *Phoenix Paint & Varnish Co.* v. *John T. Lewis & Bros. Co.*, *Id.*, 285; *Kaut-Reith Shoe Co.* v. *International Shoe Co.*, 45

App. D. C., 545; *Thomas Manufacturing Co.* v. *Aeolian Co.*, 47 App. D. C., 376; *William Waltke & Co.* v. *George H. Schafer & Co.*, 263 Fed., 650) that we do not deem it necessary to enter upon a discussion of it here. For the reasons given in those decisions we hold that the use of the marks before us upon the goods to which they are applied in this case would be likely to produce confusion. Even if we doubted it, we would still rule in favor of the opposition on the authority of *William Waltke & Co.* v. *George H. Schafer & Co.*, *supra*, and *Lambert Pharmacal Co.* v. *Mentho-Listine Chem. Co.*, (47 App. D. C., 197).

The applicant says that its mark is made up "of the initials of the corporation with the termination Co.; Eney Shortening Co., Esco," and seems to think that there is something in that which should entitle it to have the mark registered, but we perceive no force in the suggestion. The trade-mark statute takes no account of the origin of a mark. The question is, Would its use be likely to result in confusion? If so, it is unregistrable. As was said by the Examiner of Interferences, the—

consuming public know little and care less about the origin of any mark and very seldom if ever take it into consideration.

The statute does not contemplate that the public should do so. It follows that the decision of the Patent Office must be reversed and the opposition sustained.

Reversed.

Changes in Classification.

(ORDER No. 2,602.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 31, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 254, Pushing and Pulling Implements, (Division IV,) establish the following subclass and definition:

28.5. **Thill-coupling jacks.**

28.5. THILL-COUPLING JACKS. Devices for forcing thill-irons into axle-clips against resilient antirattling devices or for forcing antirattlers into their positions in thill-couplings.

The patents contained in this subclass have been taken for the most part from class 21, Carriages and Wagons, subclass 107, Thill-couplings, Jacks, hereinafter abolished.

Abolish class 21, Carriages and Wagons, (Division X,) the subclasses remaining therein, viz:

76. **Draft-equalizers,**
27. **Holdbacks,**
75. **Horse-detachers,**
189. **Miscellaneous draft appliances,**
77. **Neck-yokes,**
92. **Pole-tips,**
36. **Poles and shafts—**
91. Convertible,
Sleds—
95. Shifting thills,
57. **Thill-couplings—**
106. Antirattlers,
107. Jacks,
108. **Thill-supports,**
63. **Tongue-supports,**
79. **Whiffletree-hooks,**
78. **Whiffletrees,**

having been placed for the most part in class 278, Land-Vehicles—Apimal Draft Appliances, which is hereby established in Division X, with the following subclasses and definitions:

278.—LAND - VEHICLES — ANIMAL DRAFT APPLIANCES.

1. **Miscellaneous.**
2. **Load-starters.**
Draft-equalizers—
3. Horses longitudinally alined—
4. Two abreast.
5. Horses abreast—
6. Five-horse type—
7. With pole or poles,
8. Four-horse type—
9. With pole or poles—
10. Offset pole—
11. Three-against-one pull,
12. Two - against - two pull—
13. Lateral evener connection,
14. Three-horse type—
15. With pole or poles—
16. With intermediate evener—
17. Offset,
18. Two-horse type—
19. Leverage adjustment—
20. Automatic.
21. **Horse-detachers—**
22. Automatic,
23. Combined brake,
24. Traces from swingletree—
25. Trace positively moved,
26. Movable trace-eye-engaging element—
27. Pivoted,
28. Sliding pin or rod,
29. Thills or poles from vehicle—
30. Retracting axle-clip bolts,
31. Doubletree from pole,
32. Swingletree from thill or evener.
33. **Poles and thills—**
34. Plural,
35. Special-purpose attachments,
36. Poles—
37. Agricultural-implement type,
38. The pole-body,
39. Selective positioned,
40. Slip-tongue,
41. Axle-attached—
42. Width adjustment,

278.—LAND - VEHICLES — ANIMAL DRAFT APPLIANCES—Ctd.

Poles and thills—
Poles—
43. Axle-hounds attached,
44. Thills—
45. Two-wheeled vehicles,
46. Offset draft—
47. Selective direct,
48. Sectional,
49. Joints and braces,
50. Tips—
51. Safety neck-yoke retainers.
52. **Thill-couplings—**
53. Resilient,
54. Safety attachments,
55. Plural,
56. Special-position release—
57. L-head type,
58. T-head type,
59. D-head type,
60. Removable transverse pin or bolt—
61. Antirattling—
62. With special pin-retainers,
63. Resilient—
64. Adjustable,
65. Special pin-retainers,
66. Opposed lug engaging or carrying jaws,
67. L-head type,
68. T-head type—
69. Coöperating hooks—
70. Retainers—
71. Spring,
72. D-head-type—
73. Coöperating hook—
74. Retainers—
75. Pivoted,
76. Spring,
77. Plural-part eye—
78. Pivoted jaws—
79. Grapple type,
80. Ball and socket.
81. **Thill-supports—**
82. Plural position,
83. Spring-latches,
84. Spring,
85. Separate props.
86. **Pole-supports—**
87. Ground-engaging props,

278.—LAND - VEHICLES — ANIMAL DRAFT APPLIANCES—Ctd.

Pole supports—
88. Spring—
89. Coil.
90. **Whiffletrees—**
91. Resilient,
92. Metallic—
93. Trussed,
94. Trussed,
95. Connections—
96. Link,
97. Resilient—
98. To pole or thills,
99. To pole or thills—
100. Pivot-bolt—
101. Offset pivot,
102. Trace and whiffletree connections—
103. Resilient,
104. Clamp,
105. Trace-eye-engaging head or end—
106. Loop-retainers,
107. Hook-retainers,
108. Spring-detent retainers,
109. Pivoted button or lug retainers,
110. Rotatable-button retainers,
111. Hooks—
112. Trace-retaining—
113. Movable keeper—
114. Snap-hook type,
115. Special-position release—
116. Opposed lapping hooks,
117. Whiffletree-fastenings.
118. **Trace and thill or pole connections.**
119. **Neck-yokes—**
120. End construction,
121. Pole-couplings—
122. Modified pole and yoke (center)—
123. Permanently attached,
124. With safety devices,
125. Leather eye or ring.
126. **Holdbacks—**
127. Harness attached—
128. Breech-strap—
129. Adjustable,
130. Automatic release.

M. H. COULSTON, *Acting Commissioner.*

Patents Nos. 1,353,135 to 1,353,815.

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Total	1049		

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 30, 1920.

Pyro Paint Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of George F. Johnston, of Fort Dodge, Iowa, for registration of a trade-mark and trade-mark registered May 16, 1899, No. 32,902, to Pyro Paint Company, of 37–39 Commercial Place, Norfolk, Va., and a notice of such declaration sent by registered mail to said Pyro Paint Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Pyro Paint Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULTSON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 13, 1920.

William A. Green, his assigns or legal representative, take notice:

An interference having been declared by this Office between the application of Herbert B. Lederer Co., of 91 Fifth avenue, New York, N. Y., for registration of a trade-mark and trade-mark registered May 21, 1912, No. 86,586, to William A. Greer, of 315 Pennington avenue, Passaic, N. J., and a notice of such declaration sent by registered mail to said William A. Greer at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said William A. Greer, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULTSON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 15, 1920.

Gillespie-Benedict Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Barrett Company, of 17 Battery Place, New York, N. Y., for registration of a trade-mark and trade-marks registered June 4, 1907, Nos. 62,955 and 62,956, respectively, to Gillespie-Benedict Company, of Old Colony Building, Chicago, Ill., and a notice of such declaration sent by registered mail to said Gillespie-Benedict Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Gillespie-Benedict Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULTSON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 15, 1920.

Ben Strauss Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the China, Japan & South America Trading Co., Ltd., of 80 Maiden Lane, New York, N. Y., and the application of J. A. Migel, Inc., of 422 Fourth avenue, New York, N. Y., for registration of a trade-mark and trade-mark registered April 26, 1910, No. 77,614, to the Ben Strauss Company, 31 Union Square, New York, N. Y., and a notice of such declaration sent by registered mail to said Ben Strauss Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Ben Strauss Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

Adverse Decisions in Interference.

PATENT No. 1,286,617.

On July 30, 1920, a decision was rendered that Charles C. Hebbard was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, and 8 of his Patent No. 1,286,617, subject, "Head-motion for ore-concentrators," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,307,780.

On August 16, 1920, a decision was rendered that Charles M. Kendall was not the first inventor of the subject-matter covered by claim 1 of his Patent No. 1,307,780, subject, "Manifold-heaters," and no appeal having been taken within the time allowed such decision has become final.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business September 11, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Mar. 1	Mar. 22	616
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Jan. 2	Feb. 27	1,035
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 17	Apr. 16	184
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Nov. 17	June 1	1,611
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Apr. 24	May 15	488
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Apr. 3	July 12	523
312	7. Games and Toys; Optics; Photography; Velocipedes	May 10	June 5	889
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	June 14	July 19	457
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Mar. 1	Feb. 14	594
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 24	June 17	1,072
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Aug. 7	Apr. 15	440
222	12. Machine Elements	Jan. 12	June 10	1,138
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Dec. 15	June 26	1,202
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	July 19	730
308	15. Bread, Pastry, and Confection Making; Coating; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 19	Apr. 23	1,319
111	16. Radiant Energy; Telegraphy; Telephony	Jan. 14	Mar. 1	918
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	June 18	July 10	201
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Feb. 9	Apr. 5	1,277
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Jan. 2	Mar. 15	633
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	June 1	June 4	793
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 29	June 18	526
249	22. Aeronautics; Firearms; Ordnance	Jan. 12	June 29	309
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 21	June 12	751
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Mar. 3	June 4	576
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Jan. 26	July 30	213
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Jan. 30	Feb. 18	801
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	June 5	May 29	591
225	28. Internal-Combustion Engines	Feb. 16	May 21	779
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Mar. 10	June 9	667
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 31	Aug. 9	1,114
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Dec. 11	Mar. 5	1,408
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Jan. 6	June 3	1,168
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Apr. 15	Apr. 29	458
301	34. Electricity-Transmission to Vehicles; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	July 24	July 7	232
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	July 16	July 31	351
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Apr. 5	Apr. 21	1,216
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 16	Mar. 26	1,289
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Apr. 21	May 3	876
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Nov. 5	Jan. 2	1,329
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 5	Mar. 25	1,156
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Feb. 21	June 12	864
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Mar. 1	June 27	1,216
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Dec. 16	Mar. 16	1,100
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Apr. 26	Aug. 6	350
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Mar. 22	Apr. 2	1,083
264	46. Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 30	Apr. 1	663
332	47. Brakes; Clutches; Fluid Pressure Brake and Analogous Systems	Jan. 8	Nov. 25	980

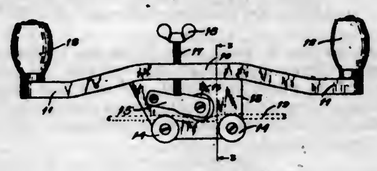
Oldest new case, Nov. 5; oldest amended, Nov. 25.
Total number of applications awaiting action..... 38,186

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Mar. 18	Aug. 10	2,815
	Designs	Mar. 17	Apr. 27	1,052
	Labels and Prints	May 15	Aug. 19	662

PATENTS

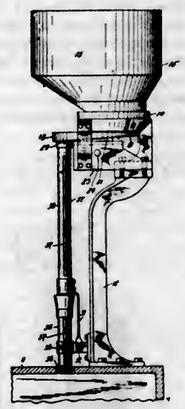
GRANTED SEPTEMBER 21, 1920.

1,353,135. MUSICAL-INSTRUMENT-STRING RETONER. LAWRENCE L. ALNUTT, Chattanooga, Tenn. Filed Dec. 28, 1918. Serial No. 268,626. 1 Claim. (Cl. 29—81.)



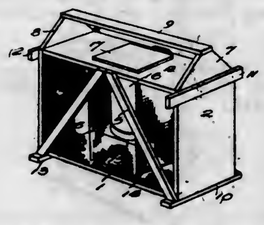
A retoning tool for piano wires and the like, the same comprising a horizontal bar having upstanding handles at its ends, a plate depending from the bar, a pair of spaced rollers mounted on pins projecting laterally from said plate, a single roller mounted in a support movably connected with said plate, and means for setting the support to move its roller more or less into the space between the other rollers.

1,353,136. FEEDING ATTACHMENT FOR CROWN-CORK-MAKING MACHINES. EMILIO ALBERTI, New York, N. Y., assignor to International Cork Company, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 17, 1918. Serial No. 250,378. 2 Claims. (Cl. 113—113.)



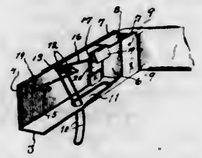
1. In a device for stacking disks, the combination with a receptacle having a discharge opening, of a downwardly extending tube connected to the said receptacle and into which the latter is adapted to discharge through said opening, a stationary element below said receptacle, the lower end of said tube being in swinging engagement with said stationary element, means for shaking the said receptacle and the tube connected therewith, a hopper arranged above said receptacle and delivering the disks into the latter, and a member carried by said hopper projecting into and across said receptacle, the lower edge of said member being disposed a substantial distance above the bottom of said receptacle, whereby the latter is divided into two communicating compartments, one of which is provided with said discharge opening and the other one receives the disks from said hopper.

1,353,137. BEE-CAGE. EUGENE B. AULT, Calallen, Tex. Filed Mar. 19, 1918. Serial No. 223,344. 1 Claim. (Cl. 6—9.)



A portable shipping bee cage construction, comprising a frame having top and bottom, vertical end pieces connecting said top and bottom, wire mesh sides, bee clustering means within the frame, means for feeding bees and disposed relative to the clustering means and suspended from the top, and projecting portions on the frame constructed and arranged to extend beyond the top to prevent the frame from being placed in inverted position or receiving any article upon its top.

1,353,138. TOY GUN. ROBERT BAISCH and OSCAR KREUTZ, Detroit, Mich. Filed Nov. 3, 1919. Serial No. 335,401. 6 Claims. (Cl. 46—46.)

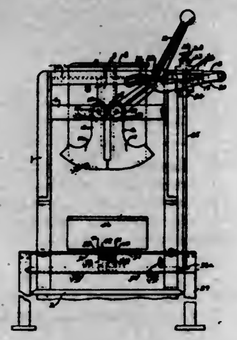


1. In a toy gun, a sounding diaphragm, a trigger having a spring return arm and a spring hammer arm, a hammer carried by the latter arm and yieldingly gripping means for engaging the hammer as the trigger reaches the limit of its pull and suddenly releasing the hammer whereby the spring hammer arm snaps the hammer against the diaphragm.

1,353,139. WEIGHING-MACHINE. RALPH R. BENNETT, San Jose, Calif. Filed July 30, 1919. Serial No. 314,340. 13 Claims. (Cl. 249—18.)

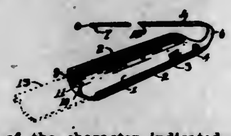
1. A weighing machine comprising, in combination with a scale, a hopper mounted on said scale, opposed coacting jaws forming the bottom of said hopper when closed, means for operating said jaws, a conveyer operatively

mounted over said scale and beneath said hopper, means for holding a receptacle in an operative position on said



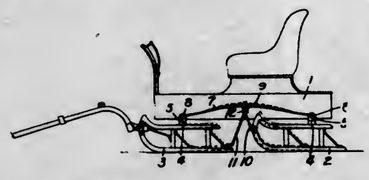
conveyer beneath said hopper, and means actuated by the closing of said jaws for removing said holding means.

1,353,140. LACE-TIP. FRANK J. BENS, San Jose, Calif. Filed May 21, 1920. Serial No. 383,304. 2 Claims. (Cl. 24—148.)



1. A device of the character indicated comprising an oblong body member bendable inwardly from both sides thereof, having a pointed prong punched upwardly adjacent one end thereof and directed toward said end and said end tapering to form a narrow extension for said member, said extension being bendable backwardly over said body member to engage a lace end placed therein and said body member being so proportioned as to overlap and engage said extension when bent inwardly thereover.

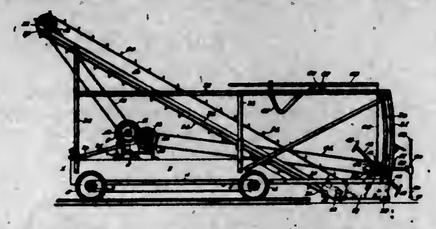
1,353,141. SLEIGH. LINDOR BERGERON, Macamic, Quebec, Canada. Filed Feb. 24, 1920. Serial No. 360,989. 3 Claims. (Cl. 280—15.)



3. In combination with the front and rear runners of a sleigh pivotally mounted on axles; two resilient members secured, in longitudinal arrangement in relation to said runners, to said axles; a downward depending lug secured intermediate of each of said resilient members; and connecting members pivotally secured to the fore ends of said rear runners and rigidly secured to the rear ends of said front runners, said connecting members being pivotally secured intermediate thereof to said lugs, substantially as described.

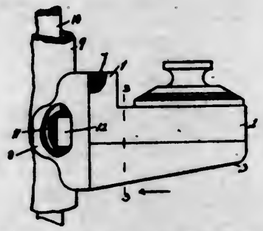
1,353,142. SHOVELING-MACHINE. MICHAEL M. BOHER, Casper, Wyo. Filed July 14, 1919. Serial No. 310,632. 9 Claims. (Cl. 193—8.)

1. In a shoveling machine of the character described, the combination with a truck having a motor thereon, of an inclined frame supported on said truck, an endless conveyer mounted on said inclined frame and operated by said motor, upright frames adjacent the forward end of the conveyer, a rotatable shoveling device slidably mounted in the upright frames, and operated by the motor, for delivering material to the conveyer, rotatable means on each side of the shoveling means for supplying material to the said shoveling means and operated thereby, said latter



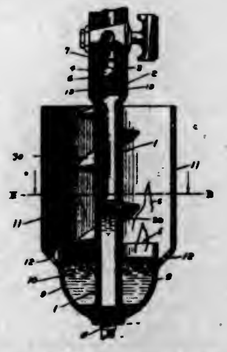
means turning in paths at right angles to that of the shoveling means, and being connected with the shoveling means to be raised or lowered therewith, and means for raising or lowering the same and a pawl and ratchet mechanism connected operated by the motor, for moving the truck forward.

1,353,143. AUTOMOBILE-LOCK. FLETCHER O. BOSWELL, Philadelphia, Pa., assignor to F. O. B. Manufacturing Company, Philadelphia, Pa., a Corporation of Delaware. Filed June 14, 1919. Serial No. 304,116. 3 Claims. (Cl. 70—90.)



2. In combination with the casing of the steering post of an automobile, an attaching member formed with said casing, and having a passage therethrough for the passage of the bolt of the lock, a threaded hub formed upon the attaching member, a two part lock casing said parts being dove tailed together and having a threaded recess therein for engagement with the threaded hub.

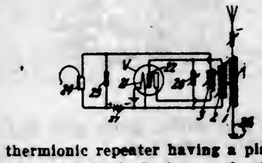
1,353,144. PRIMER FOR ENGINES. WALTER W. BROWN, Chico, Calif. Filed Jan. 29, 1919. Serial No. 273,900. 5 Claims. (Cl. 123—187.5.)



1. A primer for internal combustion engines comprising a tube closed at one end and provided at the opposite end with means for removable engagement with a valve or pipe connection; a bowl surrounding the said closed end

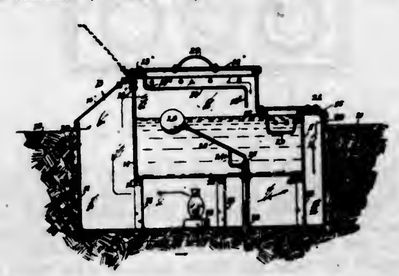
of said tube; both tube and bowl adapted to contain liquid fuel.

1,353,145. DEVICE FOR VARYING ELECTRICAL COUPLING. LEWIS M. CLEMENT, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 20, 1918. Serial No. 240,968. 19 Claims. (Cl. 179—171.)



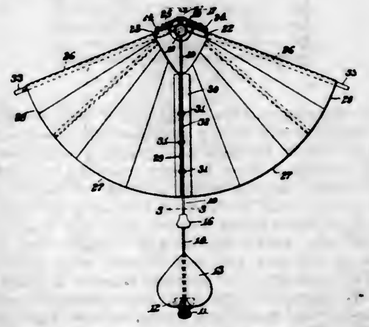
16. A thermionic repeater having a plate circuit and a grid circuit, a coil individual to each of said circuits, a signaling circuit, a coil individual to said signaling circuit, said grid and plate circuit coils being coupled, said signaling circuit and grid circuit coils being coupled, and means for varying the coupling between each of said pairs of coils while automatically maintaining the coupling between the other pair constant.

1,353,146. STOCK-WATERER. FAY A. CLEMONS, Clemons, Iowa. Filed July 8, 1919. Serial No. 309,398. 5 Claims. (Cl. 119—73.)



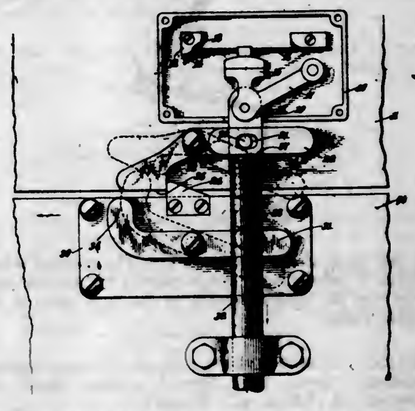
1. A stock waterer comprising a casing, a tank supported in the casing and adapted to be spaced from the walls of the casing for providing air spaces around the tank, a removable cover for said casing and tank having a false cover member spaced from the main body of the cover member, and terminating short of its forward edge, said tank having near its upper edges openings and said cover member having corresponding openings for permitting the circulation of air between the false cover and the main body of the cover.

1,353,147. TOY AEROPLANE. ATHERTON D. CONVERSE, Winchendon, Mass. Filed Dec. 9, 1919. Serial No. 343,595. 15 Claims. (Cl. 244—12.)



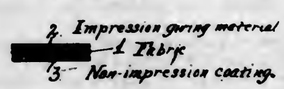
1. In a device of the class described, the combination of a metal rod having its forward end bent downwardly to form a hook; an expanding fan-shaped member secured to said rod and adapted to be folded against said rod; means whereby said fan-shaped member may be retained in folded position when about to be projected; and means for expanding said fan-shaped member when projected.

1,353,148. ELEVATOR SAFETY-CONTACT. JOHN MAXWELL COOTE, Elisabeth, N. J. Filed Dec. 24, 1918. Serial No. 268,190. 4 Claims. (Cl. 200—54.)



2. In a safety appliance for electrically controlled elevators and the like: a gate, a catch carried by the gate, a contact-making member, a hand rod for releasing the elevator gate, a pivoted latch member, one arm of same being designed to engage the said catch and the other arm connected with said contact-making member, a disengaging lever pivotally carried by the gate, adapted to engage with said latch member to free the latch from the catch, and having an arm engaged by a pin projecting from said hand rod whereby when the same is drawn in one direction, the disengaging lever is actuated, said rod being adapted to engage the contact operating arm of the latch member in the other direction of its movement to restore the locking engagement and to effect a closure of the contact by the contact-making member.

1,353,149. MANIFOLDING MEDIUM. MALCOLM L. COSSITT, Oakland, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev., a Corporation of Nevada. Filed July 15, 1919. Serial No. 311,060. 1 Claim. (Cl. 91—68.)

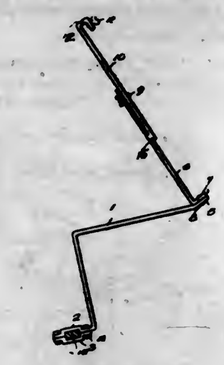


As a new article of manufacture a manifolding medium comprising a foundation having on one side means for transferring visible impressions under pressure, and having on its other side a coating consisting of an aqueous solution of gelatin and an alkali silicate.

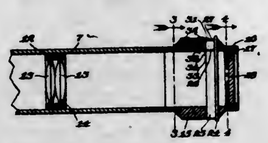
1,353,150. TYPEWRITER ATTACHMENT. FREDA L. DEDEN, Fort Smith, Ark. Filed May 13, 1918. Serial No. 234,163. 1 Claim. (Cl. 120—28.)

The combination with supporting brackets adapted to be secured to one of the supporting bars of a typewriter and having horizontal portions terminating with upturned angular free ends of a copy holder comprising stationary strips having lower right angular end portions secured to the angular ends of the bracket, the angular portions and ends constituting seats in the holder for an article when engaged therein, slotted strips, slid-

able upon the stationary strips and having upper hook ends to clamp an article in the holder upon the seats, fasteners passed through the slots in the slidable strips, and ears on the lower ends of said slidable strips and engaging the edges of the stationary strips to prevent lateral shifting of said slidable strips relative to the stationary strips and set screws engaged in the hook ends on the slidable strips.



1,353,151. RANGE-FINDER. EDWIN WILLARD DEMING, Redding, Conn. Filed Nov. 21, 1918. Serial No. 263,483. 4 Claims. (Cl. 33—64.)



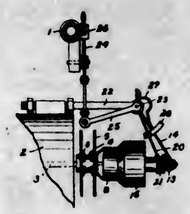
1. The combination of a telescopic tube provided with an eye end and with an object end, mechanism controllable at the will of the operator for varying the cross diameter of the opening at said object end, indicating means connected with this mechanism and disposed exteriorly of said tubular member for facilitating readings when there is a good light, and other indicating means located inside of said tube and illuminated for the purpose of facilitating readings in the darkness within the tube.

1,353,152. PRODUCTION OF MOLDED ARTICLES. WILLIAM W. DINWIDDIE, West Orange, N. J. Filed Aug. 22, 1917. Serial No. 187,579. 10 Claims. (Cl. 18—47.)

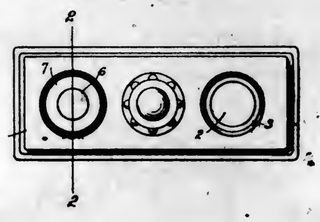
1. The process of producing molded articles which consists in applying chlorid of tin to a mold, then placing the material to be molded in the mold in direct contact with the chlorid of tin and molding the same, and removing the molded article from the mold, substantially as described.

1,353,153. MEANS TO CHANGE THE SPEED OF DRIVING-PULLEYS. WILFRID DORION, Charlesbourg, Quebec, Canada. Filed Jan. 16, 1919. Serial No. 271,420. 1 Claim. (Cl. 64—8.)

A device of the character described, comprising a driving pulley mounted on a driving shaft, said pulley having a plurality of slots therethrough, a medium pulley having a plurality of projections adapted to register with the slots in said driving pulley, said medium pulley being loosely mounted and slidable on said shaft adjacent said driving pulley, a large pulley loosely mounted and slidable on said shaft adjacent said medium pulley, said large pulley having a plurality of projections adapted to register with the slots in said driving pulley, a hand lever, rods connecting said medium and large pulleys to said lever, and means to cause said medium and large pulleys to saddle said driving pulley when said lever is operated substantially as described.

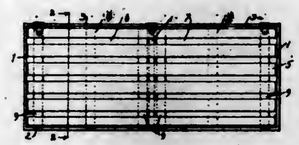


1,353,154. BATTERY-PLATE SUPPORT. EDWARD M. DUFFEY, Kansas City, Mo. Filed Apr. 12, 1920. Serial No. 373,379. 3 Claims. (Cl. 204—29.)



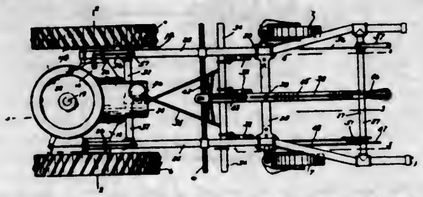
2. In a battery plate support of the type having a battery jar cover having a hole therethrough and a conical recess concentric with said hole, and having a plate supporting member having a screw-threaded portion extending through said hole and recess, and having a shoulder bearing against the under side of the cover, of a nut fitted on said threaded portion and having a conical periphery fitted in said recess and provided with a shoulder which bears against the top of said cover, substantially as set forth.

1,353,155. SHIPPING-PACKAGE. ORRIN O. EATON, Watsonville, Calif. Filed Sept. 29, 1919. Serial No. 327,182. 2 Claims. (Cl. 217—40.)



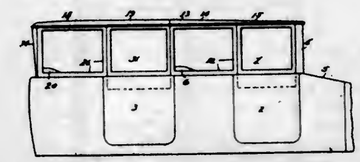
1. A shipping package comprising a chest divided into two compartments having substantially closed end and top and bottom members and having a ventilated back and a ventilated door hingedly mounted to close the front thereof, spacing means mounted in each compartment on the inner surfaces of said back and door, and a stack of trays fitting sidewise into each compartment and the full length thereof and engaging the spacing means on the back and door thereof, each tray having upwardly extending end members adapted to slidably engage the bottom of the tray superimposed thereon or the top of said chest, and having narrow side members whereby air may circulate freely around the top, bottom and both sides of each tray.

1,353,156. GARDEN-TRACTOR. PAUL B. FOAD, Minneapolis, Minn., assignor to Market Garden Tractor Co., Minneapolis, Minn., a Corporation. Filed Apr. 18, 1919. Serial No. 291,029. 7 Claims. (Cl. 180—54.)



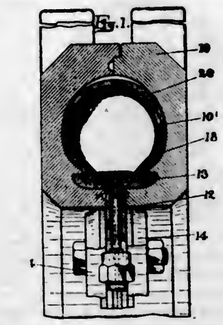
1. In a tractor, the combination with a driving axle equipped with a worm gear, of a propelling engine for said tractor provided on its extended crank shaft with a worm that runs in direct mesh with said worm gear on said axle, the said crank shaft being vertically disposed in front of said worm gear and provided at its upper end with a fly wheel, the weight of which resists the upward thrust on said crank shaft in the forward driving action.

1,353,157. CONVERTIBLE VEHICLE-BODY. RUSSELL M. FREEMAN, Detroit, Mich. Filed Nov. 12, 1917. Serial No. 201,706. 9 Claims. (Cl. 296—45.)



1. In combination with a vehicle body, a seat pivotally supported in spaced relation to the bottom and sides of said body, a top section pivotally mounted on said seat to swing in the space about said seat, and a deck extension hingedly connected to said top section to fold thereon.

1,353,158. TIRE-MANDREL AND METHOD OF PRODUCING THE SAME. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 8, 1916. Serial No. 130,161. 6 Claims. (Cl. 18—45.)



1. A fluid-tight, hollow, stretchable, metallic mandrel.

1,353,159. ANCHOR-BOLT. FRED HAMMERMANN, New York, N. Y. Filed Mar. 16, 1920. Serial No. 366,253. 2 Claims. (Cl. 85—3.)

1. An anchor bolt comprising a bar slotted at its inner end diagonally, a rhomboidal anchor plate pivoted between the forks formed by the slot, a threaded sleeve in which said bar is slidable, means in said sleeve, by which it may be rotated, a beveled edge on the inner end of said sleeve contactable with one of the ends of said anchor plate and by which it may be rotated upon its pivot, and means for drawing said bar outwardly with respect to said sleeve.



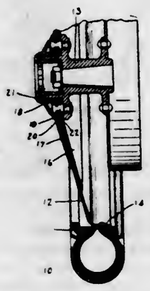
1,353,160. ROTARY SAFETY-RAZOR. ANDREW C. HANSON, Racine, Wis. Filed Nov. 12, 1919. Serial No. 337,514. 6 Claims. (Cl. 30—12.)



5. A razor comprising a handle, a revoluble tubular open ended member mounted thereon, means for revolving said member, a cutting blade carried by said revoluble member and having its cutting edge disposed adjacent an opening in the side wall of said member, a bodily removable clean-out member disposed within the revoluble member, a sleeve member engageable over the revoluble member and having an opening in line with the opening of said revoluble member, and a cover casing inclosing said members and having an opening therein for registration with the alined openings of said members, said cover casing being substantially rigid with the handle.

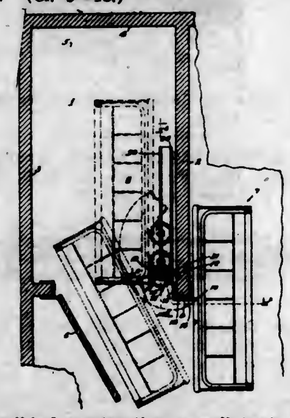
6. A razor comprising a handle, a revoluble tubular member having its inner end closed and its outer end open, a drive shaft projected from said closed end and journaled in the handle, means engageable with said shaft to revolve it and said tubular member, a cutting blade carried by said tubular member and having its cutting edge disposed adjacent an elongated opening in the side wall of said member, a guard casing inclosing the revoluble member and having an elongated opening therein for intermittent registration with the opening of said revoluble member, said casing being rigid with the handle, and a spool member removably positioned in said revoluble member with its ends outwardly of the ends of the elongated opening in said member, whereby the removal of the spool member will clean out the lather in said tubular member.

1,353,161. DISK WHEEL. ROSCOE C. HOFFMAN, Argos, Ind. Filed Aug. 30, 1919. Serial No. 320,773. 8 Claims. (Cl. 301—63.)



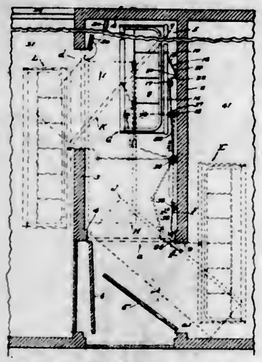
1. A disk type wheel for vehicles including a hub, a supporting disk secured on said hub composed of a single sheet of metal, a tire rim secured to the periphery of said disk, and yielding bracing means freely mounted adjacent each side of said disk for resiliently bracing said disk against any stress or strain.

1,353,162. VERTICALLY-PIVOTED WALL-BED. WILLARD C. JAMES, Los Angeles, Calif., assignor to Frank L. Belknap, Chicago, Ill. Filed Oct. 13, 1913, Serial No. 795,029. Renewed Feb. 20, 1920. Serial No. 360,070. 9 Claims. (Cl. 5—18.)



1. In a wall-bed construction, a wall having sleeping space in front and storage space behind, upper and lower tracks rigidly mounted in the storage space parallel with and near to said wall, a post vertically between and adapted to be moved along the tracks and adapted to rotate, pinions fixed upon the ends of the post, gear tracks rigidly mounted in position to be engaged by the pinions, and an up-endable bedstead connected to the post so as to swing around the edge of the wall into the sleeping space, and so that when the bedstead is swung into the storage space it may be moved laterally beyond the edge of the wall.

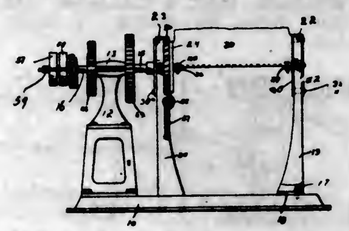
1,353,163. SCREENED BED HAVING VERTICAL PIVOTS. WILLARD C. JAMES, Los Angeles, Calif., assignor to Frank L. Belknap, Chicago, Ill. Filed Nov. 20, 1913, Serial No. 802,169. Renewed Feb. 20, 1920. Serial No. 360,071. 13 Claims. (Cl. 5—18.)



3. The combination with the front and rear walls of a storage chamber, of a bedstead, and a carrier device pivotally supported within the storage chamber and designed to swing the bedstead from the outer face of one of said walls to the outer face of the other wall.

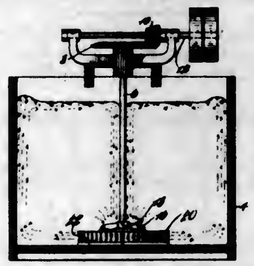
1,353,164. MACHINE FOR BURNING IN AND BURNISHING ENGINE-BEARINGS. THEODORE W. JANSEN, Des Moines, Iowa. Filed Oct. 22, 1918. Serial No. 259,264. 7 Claims. (Cl. 29—1.)

1. In a device of the class described, a frame, a shaft mounted on said frame, means for mounting an engine block adjacent to one end of said shaft, means for operatively connecting said shaft with the shaft in the engine block, and means including a yoke and a removable



bolt for fastening the other end of said shaft to the hand crank of an automobile.

1,353,165. MIXER. JOHN JOHNSON, Brooklyn, N. Y. Continuation of application Serial No. 102,110, filed June 7, 1916. Renewed Feb. 21, 1919. Serial No. 278,509. This application filed Feb. 21, 1919. Serial No. 278,467. 7 Claims. (Cl. 259—96.)



1. A rotary mixer comprising a rotary body having a central opening, means for establishing a centrifugal flow of material entering said opening, and means interposed in the stream to said opening action to impose upon said stream, as it enters said opening, a centripetal tendency.

1,353,166. RAPID DISSOLVER. JOHN JOHNSON, Brooklyn, N. Y. Filed Feb. 21, 1919. Serial No. 278,469. 18 Claims. (Cl. 259—96.)

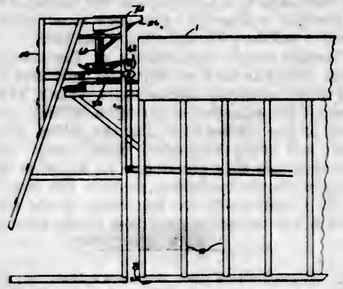


1. In an apparatus for dissolving solids, the combination with a container having partitions in the bottom thereof forming pockets or sluiceways wherein the material to be dissolved is deposited and means for directing a dissolving fluid along said sluiceways.

1,353,167. DEHYDRATOR. WILLIAM M. LUTHER, Walla Walla, Wash. Filed Sept. 26, 1919. Serial No. 326,613. 11 Claims. (Cl. 34—12.)

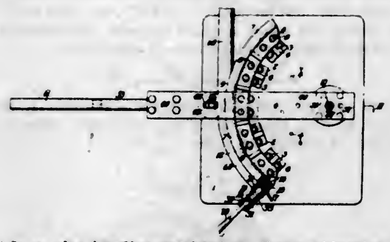
6. In a dehydrator, the combination of a case, a controllable condenser attached to said case, a multiplicity of heating coils consisting of a series of L shaped pipes, with each series terminating at each end thereof in a header, one of said headers being the inlet header and the other one of said headers being the outlet header, the said inlet header being placed transversely of said dehydrator, and at one end thereof, and the said outlet header being placed longitudinally of said dehydrator, and at the other

end thereof, the said inlet headers terminating in a manifold, a supply pipe connected with said manifold, a reduction valve interposed in said supply pipe before the manifold, a multiplicity of conveyers, means whereby said conveyers are carried to travel horizontally and with a wave like motion, each conveyer supported by a drive shaft at one end and an idle shaft at the other end, sprocket wheels carried by said shafts to mesh with said conveyers, a centrally located drum on each of said shafts, a tightening means attached to each of said idler shafts and operable from the outside of said case, each drive shaft carrying spur gears, and each spur gear meshing with the adjacent spur gear, to drive said conveyers in an alternately opposite direction, the upper of said conveyers projected through the end of said dehydrator to



register with a slicer and spreader mechanism, and the lower of said conveyers extended outward through the opposite end of said dehydrator, a variable speed device operably connected with said conveyers, said variable speed device consisting of a driven gear, a yoke arm revolubly mounted on the hub of said driven gear, an idle gear revolubly journaled in said yoke arm, and positioned to remain in mesh with said driven gear, and to be placed in mesh with any one gear of a cone gear, a cone gear, a locking device, said yoke arm terminating in a handle, said handle extended to be engaged by and locked in place by said locking device, a slicer and spreader mechanism connected to and operated by and in synchronized relation with said variable speed device.

1,353,168. PIPE-BENDING MECHANISM. GEORGE P. MCARTHUR, Rockledge, Pa. Filed Nov. 2, 1918. Serial No. 260,774. 16 Claims. (Cl. 153—46.)



1. In a pipe bending mechanism, the combination with a base; of an arcual series of independently adjustable pedestals on said base; a die frame detachably mounted on said pedestals, and having a cylindrically curved face, with its axis extending vertically with respect to said base and with a toric die channel extending circumferentially in said face, adapted to receive substantially one-half of the diameter of the pipe to be bent; yoke lugs on said frame, at respectively opposite edges of said channel, near one end thereof; a pipe clamping device, including a yoke extending substantially radially with respect to said axis, including a pair of U-shaped plates having perforated ends respectively fitted to said frame lugs, and filling blocks between said plates, in the respective limbs of said yoke; each of said blocks having a rib extending radially with respect to said axis; said ribs extending inwardly with respect to said yoke, and in parallel relation; a clamping shoe fitted to slide in said yoke, radially with respect to said axis, having grooves fitted to said ribs, a channel complementary to the channel in said frame, a screw threaded socket extending radially in said shoe toward the bight in said yoke, a cap screw adjustably fitted in said socket, and a set screw in said shoe arranged to hold said cap screw in adjusted position; a clamping lever having an eccentric head extending between said plates, in opposition to said cap screw; a fulcrum bolt extending through said plates and lever; springs connecting said yoke and shoe respectively above and below the center of said shoe, the lower one of said springs having its end connected to said yoke above the level of its connection with said shoe, whereby said spring counterbalances part of the weight of said shoe, and both springs tend to withdraw said shoe from said die, in opposition to said lever head; a fulcrum bolt for a bending lever in said frame in coaxial relation with said die face; a bifurcated bending lever having one of its bifurcations fulcrumed on said bolt and having opposite pintle slots in its bifurcations with their axes parallel with said frame axis, the upper slot being wider than the lower slot, said lever having a radial screw threaded socket in its bight; a pintle extending in said slots with its axis parallel with the axis of said frame, the lower end of said pintle being of reduced diameter to fit the narrower slot; a die roller mounted to rotate on said pintle and having a toric channel in its circumference complementary to the toric channel in said die frame; a U-shaped roller housing fitted to slide between the bifurcations of said lever, parallel therewith, having perforations in its limbs to receive said pintle and having its limbs respectively interposed between said roller and the bifurcations of said lever, and having a cylindrical plunger bearing extending radially in its bight; a housing plunger having a screw thread fitted in the screw thread of said lever, having a wrench hold at its outer end, and having its inner end reduced and mounted to turn in the bearing in said housing bight; a nut on the reduced end of said plunger; and means preventing accidental displacement of said nut; whereby said roller may be adjusted toward and away from said die face, by rotation of said plunger in said bending lever; and a tubular handle, detachaby fitted over said plunger; whereby said roller may be caused to traverse said die face to bend a pipe held by said clamping shoe.

1,353,169. PROCESS OF EXTRACTING OILS FROM THE PEEL OF CITRUS FRUITS. FRANK ALEXANDER MCDERMOTT, Washington, D. C. Filed Jan. 13, 1916. Serial No. 71,883. 8 Claims. (Cl. 167—4.)

1. The herein described method of recovering the oily substances from the peels of citrus and other fruits, it consisting in abstracting from the said peels the native water therein at a temperature below that at which the oily substances therein are vaporized, then supplying from an external source a vapor capable of withdrawing oil and causing it to intimately commingle with and pass among and through the particles of the peels while in masses, collecting the vapors that pass away from the said masses, condensing said vapors into liquid forms, stratifying separately the oily liquids and the other liquids of condensation, and then separating the liquids.

2. The herein-described method of recovering the oily substances from the peels of citrus and other fruits, it consisting in removing the peels from the pulpy bodies of the fruit articles, evaporating the native water from the said peels while in a quiet atmosphere and at a temperature below that required for the vaporizing of the oil therein, then supplying from an external source a vapor capable of withdrawing oil, as vapor of water, and causing it to intimately commingle with and pass among and through the desiccated particles of the peels while in a mass condition, collecting the vapors of water and oil that pass away from the solid mass, condensing them into liquid forms, stratifying separately the oily liquids and

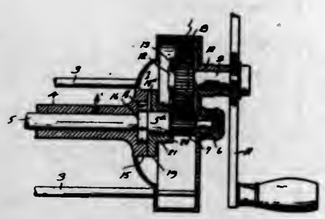
the other liquids of condensation, and then separating the liquids.

3. The herein described method of recovering the oily substances from the peels of citrus and other fruits, it consisting in reducing the peels to a comminuted mass of fine particles inclosing the said mass in a gas-tight receptacle, passing streams of oil-extracting vapor introduced from an external source through the mass while subjected to a pressure below that of the atmosphere, condensing the vapors that are taken from the mass, stratifying separately the oily liquids and the other liquids of condensation, and then separating the liquids.

4. The herein described method of recovering the oily substances from the peels of citrus and other fruits, it consisting in removing said peels from the pulpy bodies of the fruit articles, vaporizing the native water from the said peels in a quiet atmosphere and at a temperature below that of oil vaporization, then reducing the peels to a comminuted mass of fine particles, then causing a vapor supplied from an external source and capable of withdrawing oils to intimately commingle with and pass through said mass of desiccated particles, collecting the vapors that pass away from the mass, condensing said vapors into liquid forms, stratifying separately the oily liquids and the other liquids of condensation, and then separating the liquids.

5. The herein described method of recovering the oily substances from the peels of citrus and other fruits, it consisting in removing the peels in relatively large sections from the pulp bodies of the fruit articles, then subjecting the said peel sections to water evaporating conditions at a temperature below that of oil vaporization, then reducing the peel sections to a comminuted mass of fine desiccated particles, then extracting the oily materials by means of currents of oil-extracting vapor supplemental to the normal vaporizable components of said mass and while under a pressure below that of the atmosphere, then condensing the vapors into liquid form, stratifying separately the oily liquids and the other liquids of condensation, and then separating the liquids.

1,353,170. FISHING-REEL. FRED MCKIMMY, Beaver Dam, Ohio. Filed Feb. 11, 1920. Serial No. 357,922. 2 Claims. (Cl. 242—84.7.)



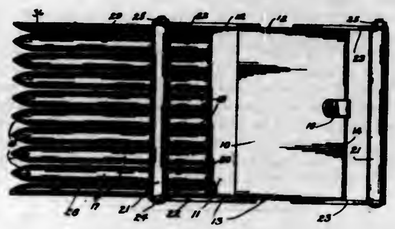
1. The combination in a fishing reel including a spool, end plates, shaft and gearing for driving the shaft, of a clutch comprising a clutch ring projecting from one end of the reel, a cam plate rigid with the shaft and loosely received within the clutch ring of the spool, a disk loose upon the shaft and arranged at one side of the clutch ring, means upon the shaft for holding the disk removably in position upon the shaft adjacent to the cam plate, the disk having recesses in one side thereof, dogs formed with shanks which are received within the recesses and pivotally connected to the disk, the swinging ends of the dogs having laterally projecting heads which are received between the cam plate and the clutch ring and are adapted to be projected into engagement with the clutch ring by the action of the cam plate, and drag means for the disk.

1,353,171. GREASE-CUP. JOHN FRANKLIN MACINDOE, Schuylkill Falls, Pa. Filed Sept. 22, 1919. Serial No. 325,352. 2 Claims. (Cl. 184—45.)



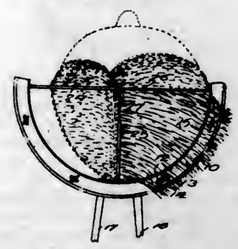
2. The combination of a lubricating cut having a spring actuated plunger, a tapering valve stem terminating in a tapering valve member, operatively secured thereto, adapted to fit loosely within the opening of the shank, said valve being provided with a horizontal port and a vertical port communicating therewith, a shank having a straight outlet for a portion of its depth to limit the area of the flow of the lubricant during the initial stroke of the plunger and after the control valve member has descended therein, and then tapering to its terminus thereby providing a gradually increasing area for the flow of the lubricant in proportion to the weakening of the pressure means and means to increase the flow of the lubricant.

1,353,172. BERRY-PICKER. ANTHONY MANTES, Dexterville, Wis., assignor of one-third to Jacob Maskoliunas and one-third to J. Skinder, Chicago, Ill. Filed Mar. 13, 1920. Serial No. 365,488. 3 Claims. (Cl. 56—330.)



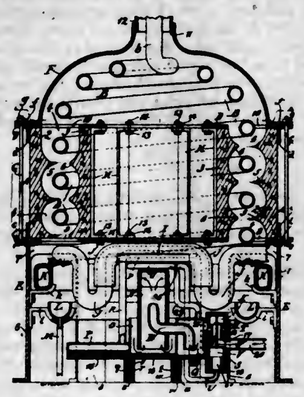
2. In a berry picker, the combination of a container having a hinged rear wall and an open side, and a plurality of picker-fingers projecting forwardly from the open side, the bottom wall to which the rear wall is hinged being located in a plane beneath the bottoms of the picker-troughs, substantially as described.

1,353,173. HAIR-CUTTING DEVICE. THOMAS A. MAXWELL, Chanute, Kans. Filed Apr. 17, 1919. Serial No. 290,774. 4 Claims. (Cl. 30—1.)



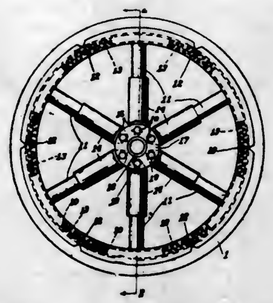
1. A hair cutting device comprising cutting means curved to substantially conform to the curvature of a portion of a head, means for operating the cutting means and means extending over the head for supporting the cutting means in position.

1,353,174. INSTANTANEOUS WATER-HEATER. JOSEPH ALEXANDER MAYERS, New York, N. Y. Filed June 5, 1915, Serial No. 32,270. Renewed June 3, 1920. Serial No. 386,326. 5 Claims. (Cl. 230—21.)



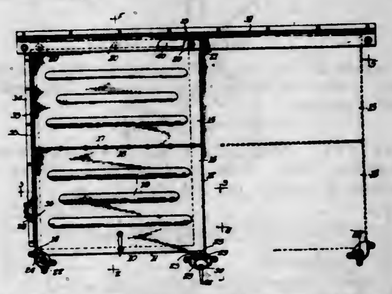
4. In an instantaneous water heater, the combination with the main burner and pilot burner, of a water container through which the water to be heated and used is passed, comprising a portion which is located above the immediately adjacent parts of the container through which water passes into and out of said portion, the latter being heated by the pilot burner and thereby raised to a temperature which is higher when no water is passing than when water is passing through the container, and a thermostatic valve mechanism controlling the operation of the main burner and responsive to the temperature of said portion and actuated by the changes in temperature of said portion to start and stop the operation of the main burner accordingly as water passes or ceases to pass through said container.

1,353,175. RESILIENT WHEEL. JOSEPH MELDG, Beaver Falls, Pa. Filed Jan. 13, 1920. Serial No. 351,213. 1 Claim. (Cl. 152—30.)



In a resilient wheel, a rim comprising a series of sections, each of said sections comprising a curved base, a radial spoke section integral with said base projecting inwardly therefrom, side walls for holding a tire therebetween outstanding approximately at right angles from said base, a curved partition for supporting the inner surface of said tire arranged concentrically with, and spaced from said base, between said side walls, a pair of ears at one end of said section formed from said side walls, continuous and in the same plane with said walls, a second pair of ears at the other end of said section bent from said side walls and spaced part a sufficient distance to receive a pair of ears similar to that first mentioned, of the adjacent section, between them, pins arranged between said partition and said base, and springs secured to the pins of adjacent sections for yieldingly joining said adjacent sections together.

1,353,176. DOOR. MODESTE A. METZGER, Chicago, Ill. Filed Apr. 14, 1919. Serial No. 289,999. 11 Claims. (Cl. 20—22.)



9. A sliding door, means adjacent the upper edge of said door for supporting said door when said door is partly open, and means beneath said door for supporting it when it is in its closed or open position, and means for binding said door snugly in place when it is in closed position.

1,353,177. DEVICE FOR RECOVERING PUMP-CYLINDERS. HENRY NELSON, Northwood, Iowa, assignor of one-half to T. Sophus Hanson, Northwood, Iowa. Filed June 18, 1917. Serial No. 175,526. 1 Claim. (Cl. 294—99.)

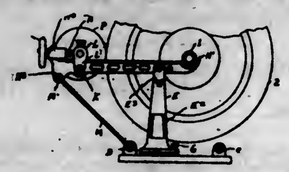


A tool for recovering cylinder casings comprising a body portion having spaced side plates, spaced pivot rods extending there-between, a pair of oppositely extending gripping jaws pivotally connected to each pivot member and having downwardly converging ratched edges, leaf springs mounted on the side plates and adapted to normally force the respective gripping jaws downwardly, lugs on the side plates for limiting the downward movement of the gripping jaws and means for adjusting said gripping jaws to take care of casings of different diameters.

1,353,178. POWER-TRANSMISSION DEVICE. HARRY E. OWEN, Muncie, Ind. Filed Oct. 28, 1919. Serial No. 334,041. 4 Claims. (Cl. 74—106.)

1. A power transmission device of the kind described, comprising standards retained at a spaced distance apart, a lift bar fulcrumed on each standard and having its inner end adapted to engage the automobile axle, frame

members trunnioned at the outer portions of said lift bars, a line shaft journaled in the frame members, fric-



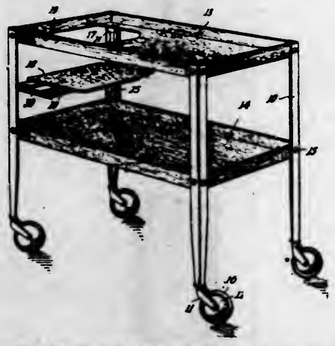
tion pulleys on the line shaft to engage the automobile wheels, connecting members to retain the lift bars at operative position.

1,353,179. AIRPLANE-WING. JOHN PETROVITCH, Cleveland, Ohio. Filed Dec. 18, 1919. Serial No. 345,793. 6 Claims. (Cl. 244—12.)



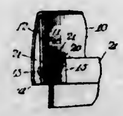
1. The combination with an air-plane body, of upper and lower wings pivotally connected thereto and to each other to fold flatly beside the sides of the body, the pivoted connection to the body being rotatable as a whole to swing the wings to ordinary horizontal position when in use.

1,353,180. NURSERY-SERVICE-WAGON. JOHN CHARLES PRESTON, Balmain, near Sydney, New South Wales, and JAMES MALCOLM, Lindfield, near Sydney, Australia. Filed July 2, 1919. Serial No. 308,194. 3 Claims. (Cl. 280—50.)



1. A nursery service wagon consisting of an upper and a lower tray on corner leg supports, a hatch opening in one end of the upper tray, and a movable plate carried on a vertically sliding bracket mounting, said plate adapted when raised to fill said hatch opening and when lowered to form an infant's seat below the same.

1,353,181. COLLAR. CHARLES M. RICHTER, Chicago, Ill. Filed May 3, 1919. Serial No. 294,530. 1 Claim. (Cl. 2—67.)

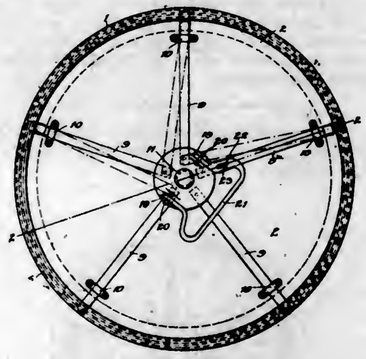


In a collar having normally overlapping front end portions and a button hole in each thereof, the combination therewith of a flap on the inner surface of that end portion of the collar which is first applied to the collar button in front, said flap normally overlying the button hole in that end of the collar and having material length and a width sufficient to reach substantially to the bottom of the neck-band of the shirt when the collar is in normal position thereon, said flap being secured to the collar along a line spaced from the button hole and normally above the neck-band of the shirt whereby the flap is free to be moved away from the button hole and will overlie the button and a portion of the neck-band of the wearer's shirt when normally positioned for use.

1,353,182. PROCESS OF MANUFACTURE OF DYE-SOAP. CLINTON S. ROBISON, Chicago, Ill., assignor to Aladdin Products Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1917. Serial No. 198,402. 1 Claim. (Cl. 87—16.)

The process of making a dye-soap which comprises saponifying a mixture of cocoanut oil, castor oil and tallow, in the proportion of 10, 10 and 8, respectively, with 38 degrees Baumé caustic soda in the proportion of 14 at 50 degrees centigrade, adding a solution of 8 kilos of granulated sugar in 8½ liters of water at 85 degrees centigrade, neutralizing the mixture with cocoanut oil and fatty acids, and then adding and mixing an alcoholic dye solution with the soap solution while the latter is at a temperature of about 60 degrees centigrade.

1,353,183. HEAD EQUIPMENT FOR BARRELS. HENRY ULRICH RUEDY, Toledo, Ohio. Filed Apr. 11, 1919. Serial No. 289,449. 7 Claims. (Cl. 220—57.)



1. A means for locking a barrel head comprising a crank mounted on the center of said head, crank rods extending when substantially radial from said crank into apertures in the chime of said barrel, means for alining said crank rods, a handle pivotally mounted on said crank, the said handle performing the triple function of being a means for lifting said cover, of turning said crank, and of locking said crank from turning.

1,353,184. BRUSH. CHARLES SCHATTE, New York, N. Y. Filed Mar. 25, 1919. Serial No. 284,899. 1 Claim. (Cl. 15—38.)

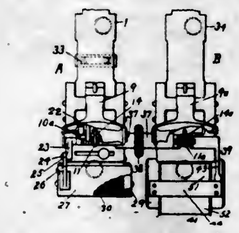
A brush, comprising a handle provided with a socket, a stationary thimble in said socket projecting beyond said handle, a knot projecting into said thimble, gripping jaws in the form of blade springs in said thimble having diverging outer ends contacting with said thimble and inwardly bent portions adapted to engage with said knot, a stationary nut in said handle, a member connecting said

gripping jaws provided with a screw-threaded stem meshing with said nut, whereby a relative movement between



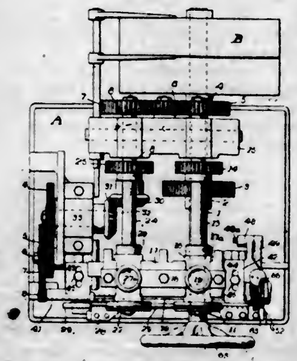
said gripping jaws and said handle causes said thimble to move said jaws into gripping position.

1,353,185. ELECTRICAL SWITCHING SYSTEM. WILLIAM M. SCOTT, Tredyffrin township, Chester county, Pa. Filed Sept. 6, 1918. Serial No. 252,817. 18 Claims. (Cl. 175—294.)



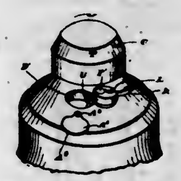
1. The combination with a source of current and a translating device, of circuit breaker mechanism intervening between them and comprising independently operable switches each having means for restraining the same in normal position, and means responsive to reversal of polarity or voltage for actuating said restraining means.

1,353,186. TUBE-COILING MACHINE. FRANK H. SLEEPER, Worcester, Mass., assignor to Sleeper & Hartley, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed June 12, 1919. Serial No. 303,700. 11 Claims. (Cl. 113—35.)



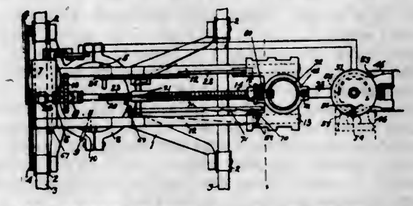
1. In a tube coiling machine, the combination with means for forming and feeding a strip and means for coiling the strip in the form of a tube, the longitudinal axis of which is substantially parallel to the line of motion of the strip, of guiding means independent of said forming and coiling means for causing lateral deflection of the formed strip before being coiled.

1,353,187. COMBINATION OF BOTTLE AND CLOSURE. THOMAS C. SPELLING, New York, N. Y. Filed Mar. 17, 1917. Serial No. 155,397. 14 Claims. (Cl. 120—57.)



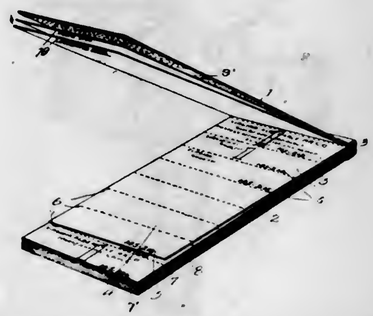
1. The combination of a bottle formed with a side mouth therein through a slanted portion of its wall and a horizontally undercut shoulder below its mouth, with a cap formed and adjusted for rotary movement on and around the mouth, the shoulder, and slanted portion of the bottle, the cap carrying sealing means for the side mouth.

1,353,188. METHOD AND APPARATUS FOR CUTTING BRICKS OR BLOCKS FROM NATURAL DEPOSITS. EDWARD B. STARR and HOWARD E. MARSH, Lompoc, Calif., assignors to Celite Products Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 20, 1920. Serial No. 352,673. 14 Claims. (Cl. 262—19.)



1. An apparatus for cutting bricks or blocks from banks, comprising track means, a truck adapted to travel on said track means, and cutting devices movably mounted on said truck to move transversely to the track.

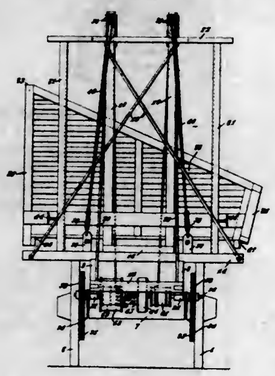
1,353,189. COMMUTATION-BOOK. JAMES E. C. SWANN, Virginia Beach, Va. Filed Mar. 8, 1917. Serial No. 153,344. 1 Claim. (Cl. 283—26.)



A commutation book comprising sheets of trip tickets detachably connected each with the others and each having printed thereon distinguishing indicia, identification sheets of heavier paper than the paper forming the trip ticket sheets disposed therebetween and detachable from the book only in their entirety, the portions of the identi-

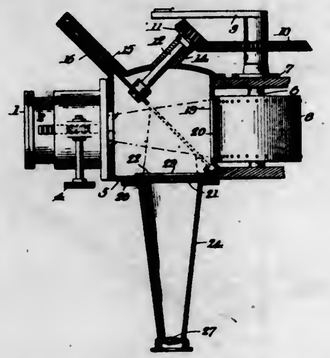
fication sheets subjacent to each of the trip tickets having identification indicia printed thereon identical with the identification indicia on the respective trip tickets and adapted to receive a conductor's punch mark at the same time the trip ticket is punched and detached, and each of the trip ticket sheets being detachably connected along one side edge to the subjacent identification sheet to prevent removal and use of the trip ticket without detection.

1,353,190. BARGE. JOSEPH THIES, Great Bend, Kans. Filed Oct. 25, 1919. Serial No. 333,414. 3 Claims. (Cl. 298—11.)



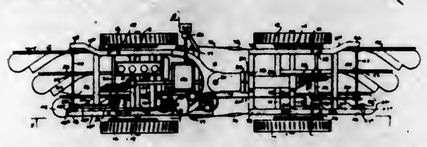
1. In a device of the class described, a vehicle; a ground wheel thereon; a shaft journaled on the vehicle; means under the control of an operator for coupling the wheel to the shaft; first drums fixed to the shaft; a second drum loose on the shaft and inclosing one fixed drum; a vertically movable cradle; flexible elements connected to the first drums and to opposite sides of the cradle and constituting means for raising the cradle, one flexible element passing slidably through the second drum; and means under the control of an operator for coupling the second drum to the shaft.

1,353,191. DIRECT-VISION VIEW-FINDER FOR MOTION-PICTURE CAMERAS. WILLIAM M. THOMAS, New York, N. Y., assignor to Thomas-Oberkirch Company, Limited, a Corporation of New York. Filed Apr. 19, 1917. Serial No. 163,267. 4 Claims. (Cl. 88—16.)



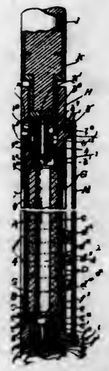
2. In a moving picture instrument, a lens, a light sensitive element in the focus of said lens, a shutter, a mirror mounted upon said shutter, optical means to view the image reflected upon said mirror when said shutter is operative, and means whereby said shutter is effective to prevent the light sensitive element from being light struck through said optical means when said light sensitive element is exposed to rays of light coming through said lens.

1,353,192. STEERING MEANS FOR TRACTORS AND OTHER VEHICLES. RALPH TINKER, Little York, Ill. Original application filed July 25, 1917, Serial No. 182,690. Divided and this application filed Feb. 18, 1919. Serial No. 277,726. 3 Claims. (Cl. 180—50.)



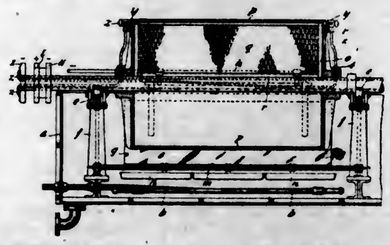
1. A tractor plow having a longitudinally extending shaft, two vertical steering shafts one spaced in front of the other, means by which the vertical shafts may rotate the longitudinal shaft, a vertical post journaled in bearings between the shafts, a seat on the post, and means by which the tractor plow may be steered by the longitudinal shaft.

1,353,193. LIQUID-GAGE. WILLIAM S. TOWNSEND, Washington, D. C., assignor to Guarantee Visible Measure Sales Company, Washington, D. C., a Corporation. Filed Oct. 31, 1919. Serial No. 334,754. 10 Claims. (Cl. 73—120.)



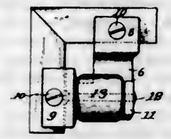
1. A liquid gage of the character described, provided at its upper end with an upwardly closing vent valve, a handle socket, and means operatively connecting said socket and valve for raising and lowering the valve as the socket is raised and lowered.

1,353,194. ELECTROLYTIC APPARATUS. CECIL MONTAGUE WALTER, Four Oaks, near Birmingham, England. Filed June 12, 1919. Serial No. 303,637. 6 Claims. (Cl. 204—5.)



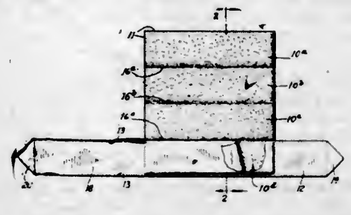
1. Electrolytic apparatus comprising a fixed vat for containing the electrolyte, a container drum for the material to be treated, said drum being rotatable in said vat, internally projecting cathode plates arranged in said drum, said plates being longitudinally disposed, and means for retaining the said material out of contact with said plates while permitting ready access for the electrolyte to the plates.

1,353,195. CASTER. JOHN B. WATLING, Chicago, Ill. Filed Sept. 27, 1919. Serial No. 326,971. 1 Claim. (Cl. 16—4.)



A caster comprising the combination with a roller and its pintle, of an integral body having members extending across the ends of said roller, said members having holes to receive the ends of the pintle and each member having an attaching lug projecting laterally therefrom, said attaching lugs being arranged at right angles to each other.

1,353,196. WASHABLE SANITARY NAPKIN. JOSEPH WEISSMAN, New York, N. Y. Filed Aug. 26, 1919. Serial No. 320,011. 1 Claim. (Cl. 128—290.)



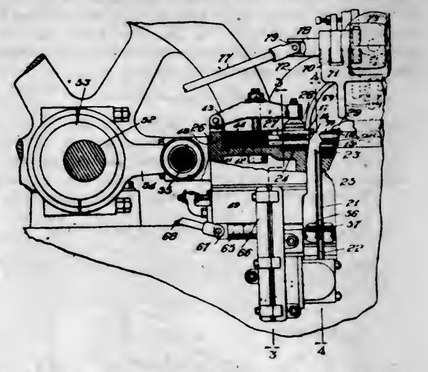
A sanitary washable napkin, comprising in combination, a strap made of textile fabric in the form of a flat tube having obtuse angular, reinforced ends, a pocket in said strap open at one edge, said pocket being closer to one end of said strap than the other, a square sheet of absorbent fabric secured along one of its marginal edges within and to the bottom of said pocket, said sheet being foldable transversely into equal portions to entirely enter the pocket, and an integral, relatively firm border formed on the marginal edges of said absorbent sheet.

1,353,197. GRINDING COMPOUND. JOHN F. WERDER, Denver, Colo., assignor to Zip Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Aug. 8, 1918. Serial No. 248,960. 2 Claims. (Cl. 51—280.)

1. A metal grinding preparation free from oil comprising powdered carborundum, starch and water.

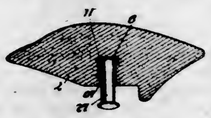
1,353,198. EXPANDED-METAL MACHINE. FRANK MURRAY WHETSTONE, Chicago, Ill., assignor to Milwaukee Corrugating Company, Greenfield, Wis., a Corporation of Wisconsin. Filed Feb. 19, 1917. Serial No. 149,645. 14 Claims. (Cl. 164—6.5.)

1. In a machine of the kind described, in combination, two pairs of slitting dies having relative endwise movement successively engageable with the work upon contiguous areas of contact whereby slits produced by the dies of the pair first engageable with the work are extended by the dies of the other pair, the dies of the pair first engageable with the work having square cutting ends and one of the dies of the other pair having an oblique cutting end whereby the dies of the pair first engageable with the work operate simultaneously at all points throughout their width and the dies of the other pair



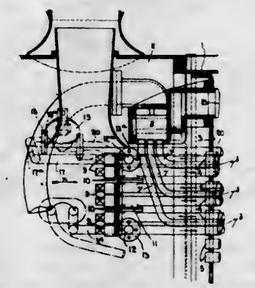
operate progressively across the same from one side of the said dies.

1,353,199. ARTIFICIAL TOOTH. GEORGE H. WHITELEY, Jr., York, Pa., assignor to The Dentists' Supply Company, a Corporation of New York. Filed Apr. 18, 1916. Serial No. 91,870. 4 Claims. (Cl. 32—9.)



1. An artificial tooth having a porcelain body provided with a hole and an anchor of flat sheet metal in the bottom of the hole, said anchor having slightly upturned edges and the side walls of the hole curved outward at the bottom and terminating in the perimeter and upturned edges of the anchor and providing an annular undercut recess in the porcelain, the anchor secured in position by the contracting of the porcelain during the burning operation.

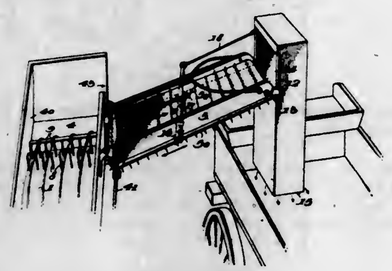
1,353,200. COMBINED FEED-WATER HEATER AND STEAM-SUPERHEATER FOR LOCOMOTIVE AND OTHER SMOKE OR FIRE TUBE BOILERS. GEORGE HERBERT WILLANS, Gloucester, England. Filed Oct. 15, 1918. Serial No. 258,274. 3 Claims. (Cl. 122—466.)



1. The combination, with a boiler provided with fire-tubes, of a superheater header secured out of line with the boiler fire-tubes, superheater pipes having main portions arranged in the fire-tubes and having end portions arranged at an angle to their main portions and connected to the said header, feed-water heater pipes having their main portions arranged in pairs and inserted in the said fire-tubes and having end portions arranged in line with

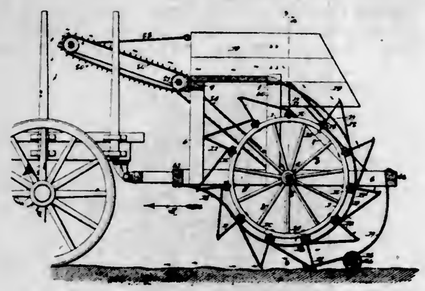
their main portions and projecting past the said end portions of the superheater pipes, and means for operatively connecting together the extreme end portions of the pairs of feed-water pipes, each pair of feed-water pipes being removable without removing the other pairs, and all the feed-water pipes being removable without removing or disconnecting the superheater pipes.

1,353,201. DISTRIBUTING MECHANISM FOR HAY-LOADERS FOR WAGONS. WILLIAM M. WILLIAMS, Reno, Nev., assignor of one-eighth to William Dawson, Reno, Nev. Substitute for application Serial No. 11,576, filed Mar. 2, 1915. This application filed June 28, 1919. Serial No. 307,303. 2 Claims. (Cl. 193—14.)



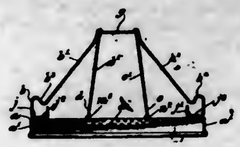
1. The combination with a support, a conveyer connected to the support, a tubular distributer chute pivoted intermediate its ends to the discharge end of the conveyer and having a throatway above the pivotal connection into which the conveyer discharges, a rod and lever connection between said conveyer and distributer for swinging said distributer upon its pivotal axis, and means for securing said connection to hold said distributer in its different positions.

1,353,202. ALFALFA-HAY LOADER. WILLIAM M. WILLIAMS, Reno, Nev., assignor of one-half to William Dawson, Reno, Nev. Filed Nov. 18, 1919. Serial No. 338,886. 6 Claims. (Cl. 56—359.)



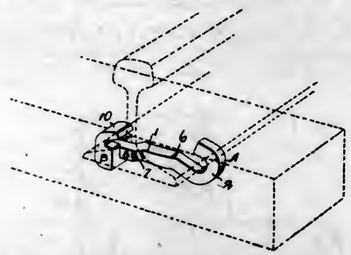
1. A loading attachment for wagons, comprising a frame, a pick-up drum rotatably mounted on the frame and including radially extended lifter fingers that rake up the hay as the drum is dragged along, an open-ended receiving compartment that extends lengthwise of the frame across the drum and through the entrance end of which the lifter fingers travel as they carry the gathered hay up over the drum, and means connected with the frame and actuated from the drum axle for discharging the material as it gathers in the receiving compartment onto the wagon.

1,353,203. GAS-TOASTER. AARON H. WOLFF, New York, N. Y. Filed Jan. 21, 1919. Serial No. 272,239. 6 Claims. (Cl. 53—5.)



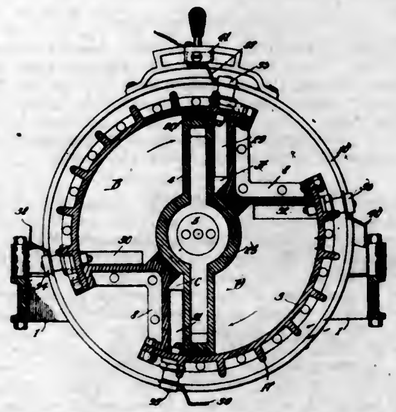
1. A gas toaster embodying therein a metallic base, the top of which has a depressed, concaved central portion adapted to have the flame from the burner impinge directly thereon, and a plurality of converging racks disposed about, and projecting from, the top of said base, whereby bread upon said racks will be inclined with relation to the top of said base, the space within the tops of said racks being free from obstruction, whereby a more uniform application of heat throughout the entire surface of said bread, is facilitated.

1,353,204. ADJUSTABLE RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed May 15, 1917. Serial No. 168,822. 4 Claims. (Cl. 238—322.)



1. A rail anchor comprising a spring bar having at one end a fixed rail engaging clip and its opposite end portion standing free from the rail bottom, and a detachable clip transversely slidable upwardly on the inclined base of one rail flange and also having a slidable engagement with the free end of the bar to place the same under tension.

1,353,205. ROTARY INTERNAL-COMBUSTION ENGINE. WILLIAM H. WOODWARD, Cleveland, Ohio, assignor of two-fifths to Louis Sweningson and one-fifth to George M. Potter, Cleveland, Ohio. Filed Feb. 10, 1919. Serial No. 276,012. 6 Claims. (Cl. 123—43.)



1. In a rotary internal combustion engine, the combination of a frame, a gear fixed thereto, a rotary cylinder

in the frame, having two opposite radial partitions therein, a rotary piston in the cylinder having two wings projecting oppositely between the partitions, and forming therewith four explosion chambers, a wrist plate rigid with the piston, planetary pinions carried by the cylinder in mesh with said gear, said pinions being half the diameter of the gear, a crank connected to the shaft of each pinion, and links connecting the wrist plate and the pinion cranks.

1,353,206. ANTICREEP DEVICE OR ANCHOR FOR RAILWAY-RAILS. HUBERT YATES, Cheam, England. Filed Feb. 17, 1920. Serial No. 359,338. 2 Claims. (Cl. 238—324.)



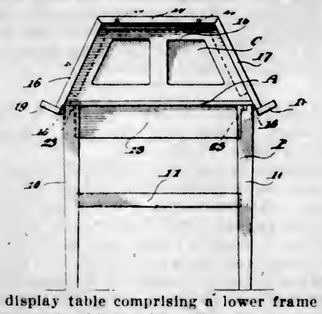
1. An anti-creep device for a rail, comprising a non-slidable fastening wedge-member adapted to bear against one side portion of a rail, and a clip having hook-shaped end portions for engaging with the rail and the wedge member, said wedge member having a recess extending downwardly from the top of its outer side whereby a clearance space is provided between the upper portion of the wedge member and the adjacent upstanding portion of the clip.

1,353,207. BUFFING AND POLISHING WHEEL. HENRY L. ZUCKER, East Orange, N. J., assignor to A. P. Munning & Co., New York, N. Y., a Corporation of New Jersey. Filed Nov. 22, 1918. Serial No. 263,651. 2 Claims. (Cl. 51—193.)



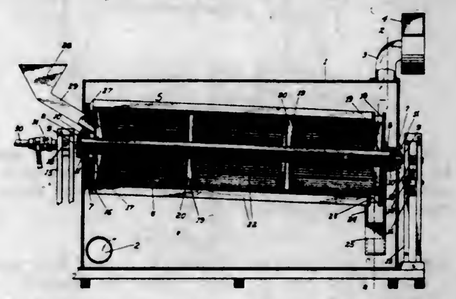
1. As a new article of manufacture, a buffing wheel section comprising pieces of cloth stitched together and of circular outline, the outer periphery only being impregnated with a substance which facilitates the adhesion of an abrasive.

1,353,208. DISPLAY-TABLE. EUGENE GRAHAM ANDERSON, Seattle, Wash. Filed Jan. 22, 1920. Serial No. 353,320. 7 Claims. (Cl. 45—31.)



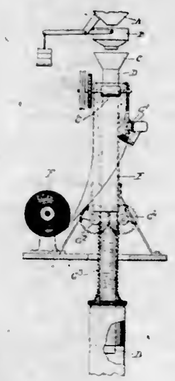
1. A display table comprising a lower frame and a top including a pair of leaves hingedly connected to the frame, a removable leaf carried by the hinged leaves, and removable end panels arranged to engage the frame and the leaves.

1,353,209. NUT-BLEACHING APPARATUS. HENRY B. Barkis, Sr., Lodi, Calif. Filed Sept. 22, 1919. Serial No. 325,434. 5 Claims. (Cl. 99—2.)



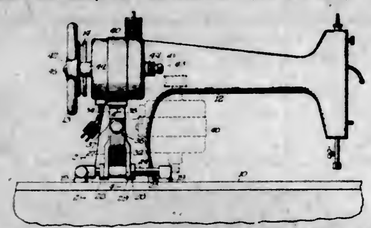
3. A device for bleaching nuts comprising a housing adapted to be filled with bleaching fumes, a drum turnable in the housing lengthwise thereof and open to the fumes, and adapted to receive the nuts at one end and discharge the same at the other, the drum having a downward slant from its receiving to its discharge end, a shaft extending lengthwise of the drum, bearings for said shaft outside the housing, means for vertically moving one of said bearings to alter the slant of the shaft and drum, and means between the shaft and the housing for retaining the fumes in the housing irrespective of the position of the shaft relative thereto.

1,353,210. PROCESS OF MAKING AND FILLING BAGS. ADELMER M. BATES, Chicago, Ill., assignor to Bates Valve Bag Company, Chicago, Ill., a Corporation of West Virginia. Filed Mar. 27, 1919. Serial No. 285,695. 16 Claims. (Cl. 226—53.)



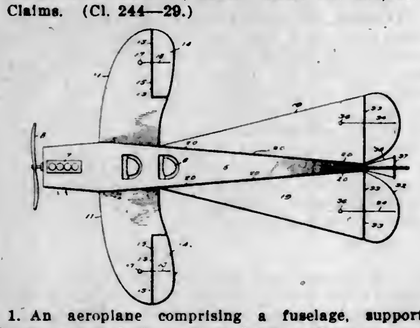
1. The method of producing and filling bag-like packages of material from a roll of fabric which consists in forming from said fabric a tube supporting it so as to leave a depending section, stretching it so as to flatten it, clamping the sides of said flattened section, discharging a measured quantity of material in such tube so that it falls into the portion of the tube above the clamped portion, sewing and severing the tube below the clamped portion so as to form the bottom of the bag, settling or packing the material in such filled section, clamping the material of the tube above the filled bag section and sewing and severing it so as to form a complete separated filled bag.

1,353,211. SUPPORT FOR SEWING-MACHINE MOTORS. CHESTER H. BEACH, Racine, Wis., assignor to Frederick J. Osius, Racine, Wis. Filed Nov. 6, 1916. Serial No. 129,850. 12 Claims. (Cl. 74—26.)



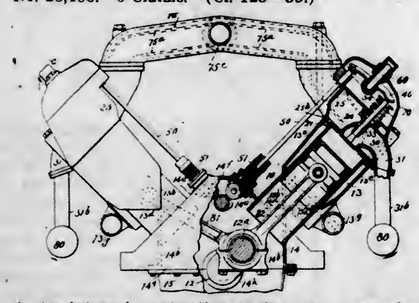
1. A sewing machine motor support comprising a base having projections fitting within the belt holes and having yielding means for holding the motor in frictional driving engagement with the hand wheel.

1,353,212. AEROPLANE. EDWARD V. BOILER, West Side, Iowa. Filed Jan. 29, 1920. Serial No. 354,919. 5 Claims. (Cl. 244—29.)



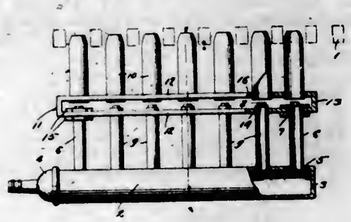
1. An aeroplane comprising a fuselage, supporting planes connected therewith and arranged upon opposite sides thereof, longitudinal stabilising planes arranged upon opposite sides of the fuselage in the rear of the supporting planes, and pivotally connected with the fuselage near its top, said stabilising planes tapering longitudinally and increasing in width rearwardly, a plurality of spaced elements secured to the stabilising planes near their outer edges and extending inwardly toward the fuselage, means to simultaneously move the elements upon each side of the fuselage and to move each succeeding rear element a greater distance than the next preceding forward element and propelling means carried by the fuselage.

1,353,213. INTERNAL-COMBUSTION ENGINE OF THE V-TYPE. ALANSON P. BRUSH, Detroit, Mich. Original application filed Nov. 30, 1914, Serial No. 874,607. Divided and this application filed May 15, 1915. Serial No. 28,455. 6 Claims. (Cl. 123—55.)



1. An internal combustion engine, two rows of water jacketed cylinders, each row containing a plural number of cylinders and having the upper half of the crank case formed integrally with said two rows of water jacketed cylinders—the water jacket for each row of cylinders having a substantially vertical lower inner end and a substantially horizontal lower outer end.

1,353,214. FIRE-KINDLER. EDWARD CALMER, St. Louis, Mo. Filed Apr. 12, 1919. Serial No. 289,753. 3 Claims. (Cl. 158—10.)



1. A fire kindler comprising a feed pipe, feed conduits carried thereby, a frame including a pair of spaced bars, said frame being mounted upon said conduits by one of its bars, and a burner associated with each conduit and supported by the other bar of said frame so that the burners are spaced from the conduits.

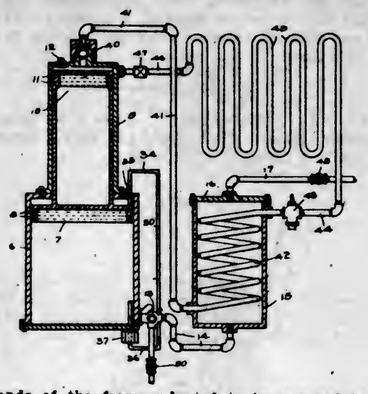
1,353,215. ERASER ATTACHMENT FOR PENCILS. WILLIAM J. CAMPBELL, Indianapolis, Ind. Filed Mar. 29, 1920. Serial No. 369,738. 3 Claims. (Cl. 120—38.)



1. As an article of manufacture, an eraser attachment for pencils, comprising a tubular body adapted to receive a section of eraser material, gripping fingers carried by the lower end of said body and forming part of the eraser receiving bore, and a clamping sleeve threaded upon said body, the clamping sleeve and fingers having coacting surfaces by which the fingers may be contracted upon the upper end of a pencil and upon the eraser material.

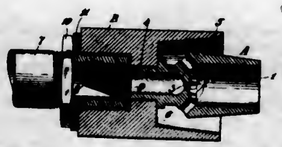
1,353,216. HYDRAULIC PUMP. EDWARD P. CARLSON, Seattle, Wash. Filed June 17, 1918. Serial No. 240,548. 2 Claims. Cl. 230—28.)

1. An apparatus of the class described comprising an ammonia compression cylinder, a hydraulic cylinder connected to the lower end thereof, a double piston having a head moving in the ammonia cylinder and a head moving in the hydraulic cylinder, a supply valve for the hydraulic cylinder, a radial lever carried by the valve, a runway at the outer end of the lever, a weight in the runway adapted to move the valve to its limit in opposite directions, a C-shaped frame having its ends slidable in the upper and lower ends of said hydraulic cylinder with the exterior portion associated with the supply valve, and with the



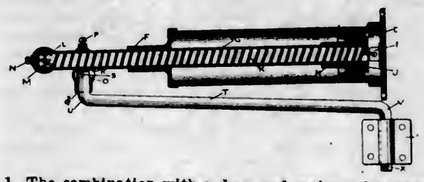
inner ends of the frame adapted to be engaged by the piston for operating the valve.

1,353,217. GAS-BURNER. CHARLES C. CHAPPELLE, New York, N. Y. Filed July 11, 1918. Serial No. 244,375. 11 Claims. (Cl. 158—115.)



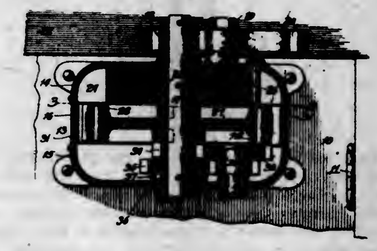
1. A gas burner comprising a burner tip provided with a minute gas orifice, a shield extending beyond said gas orifice and comprising a small cylindrical walled cup through which the gas from said gas orifice issues, said tip being provided with air inlet openings adjacent the said shield, and a main shield surrounding the base of said tip to comprise a large cup surrounding the base of said tip, the walls of said large cup being tapered inwardly in such manner that there is a tendency for gusts of wind to create a pressure in this cup in excess to pressure in the small cup whereby the flame is prevented from being extinguished.

1,353,218. DOOR-CONTROLLING DEVICE. EDWARD S. COFFMAN, Clifton Forge, Va., assignor to Frank E. Stebbins, Washington, D. C. Filed Nov. 6, 1909, Serial No. 526,602. Renewed Jan. 16, 1920. Serial No. 351,915. 27 Claims. (Cl. 16—87.)



1. The combination with a door and casing, of a retarding device and a single operating arm attached thereto; said retarding device comprising telescopic outer and inner members, the inner member having an extension beyond the end of the other, a substantially air-tight packing between said members, a contractile helical spring under tension its longitudinal axis in line with the axis of the outer member and its opposite ends connected one to the outer member and the other to the inner member, an air chamber of variable capacity in operative connection with the members, and a valve for allowing the gradual variation of the quantity of air in the chamber to secure a retarding effect; the retarding device and operating arm being attached respectively, and one of them pivotally, to the door and casing.

1,353,219. DOOR CHECK AND CLOSER. THOMAS E. COLLINS, Chicago, Ill. Filed Dec. 22, 1919. Serial No. 346,726. 6 Claims. (Cl. 16—46.)



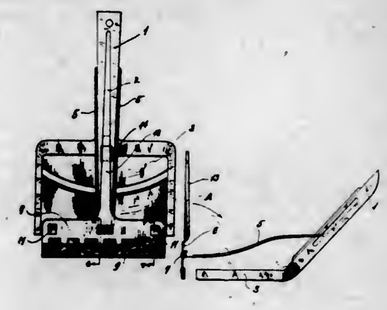
1. In a door check and closer, the combination of a casing, comprising an upper and lower portion spaced apart, a driving shaft rotatably mounted in said portions, a brake band bridging said space and connecting said portions in a manner to provide an annular ring between said portions, a lining secured to said band within said annular ring, a friction brake mounted on said shaft and designed to engage said lining on a predetermined movement of said shaft and a motor for rotating said shaft.

1,353,220. PROCESS OF PRODUCING ARTIFICIAL RESIN. HOWARD N. COPTHORNE, Chicago, Ill., and ARTHUR L. TANNEHILL, Gary, Ind. Filed June 5, 1919. Serial No. 301,971. 2 Claims. (Cl. 134—26.)

1. The process of producing artificial resin in solution, which consists in adding sulfuric acid to a solution of the lighter and heavier fractions of the light oil distillates of coal gas and coal tar in the absence of water or other acid solutions and in about the proportion of 1½ per cent. of the acid, and neutralizing the resultant solution.

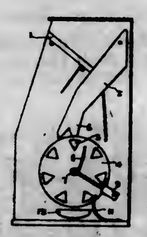
1,353,221. [WITHDRAWN.]

1,353,222. COMBINATION UTENSIL. WILLIAM DIETZEL, Merrick, N. Y. Filed Oct. 27, 1919. Serial No. 333,819. 4 Claims. (Cl. 65—62.)



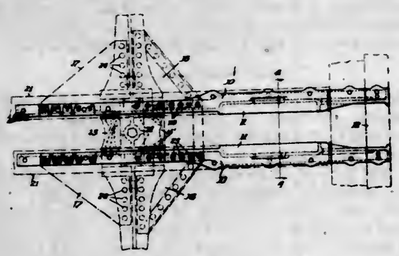
3. A combination brush and pan comprising said brush and pan and means for pivotally connecting said brush and pan together, and means for rigidly binding said brush and pan in a single unit comprising resilient clasps on said brush adapted to catch said pin.

1,353,223. COIN-CONTROLLED APPARATUS. CHARLES DIMMOCK, Toronto, Ontario, Canada. Filed Apr. 26, 1919. Serial No. 292,989. 4 Claims. (Cl. 194—84.)



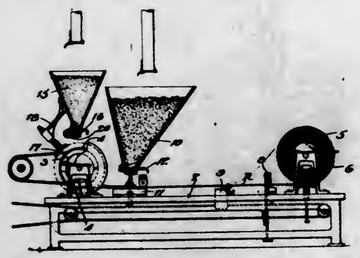
1. In a coin controlled machine, the combination with a coin delivering mechanism, a coin receiving rotatable member having a plurality of projecting fixed contacts, a sounding member, and a striker member adapted to be engaged by said contacts on the rotation of said rotatable member and to be operated to strike the sounding member.

1,353,224. DRAFT MECHANISM. HARRY E. DOERR, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 31, 1919. Serial No. 286,273. 5 Claims. (Cl. 105—420.)



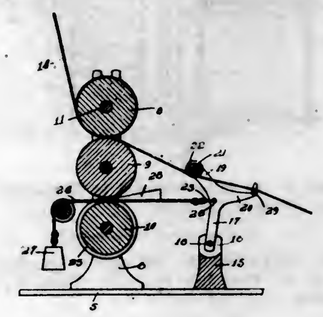
1. In draft mechanism, the combination of a bolster having openings therein, integrally formed draft arms extending through the said openings and being secured to said bolster, and gusset members connecting said draft arms and bolster.

1,353,225. APPARATUS AND METHOD FOR MAKING CONCRETE ELEMENTS. HUGH DONOGHUE, Munhall, Pa. Filed Oct. 29, 1917. Serial No. 199,126. 2 Claims. (Cl. 18—48.)



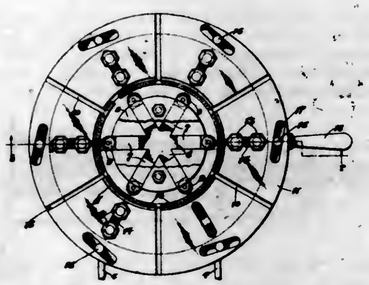
1. In a device of the type described a table, a rotatable reel carrying reinforcing material, a collapsible drum rotatably mounted on said table, means for securing the reinforcing material to said drum, means for rotating said drum, means for applying a layer of cement to said fabric intermediate said drum and reel, and means for severing said reinforcing fabric intermediate said drum and reel and means for applying a finishing coat of cement and sizing the element after the reinforce is wound upon said drum.

1,353,226. STOP-MOTION. JOHN A. FENTON, North Andover, Mass. Filed Jan. 15, 1920. Serial No. 351,727. 3 Claims. (Cl. 19—25.)



1. A stop motion mechanism comprising in combination, thread feeding rollers, a power roller supported under the thread feeding roller, bearings for supporting the rollers, said power roller having a groove formed therein, a pivoted thread guide over which the thread passes, a strip having connection with the thread guide, a weight on the opposite end of the strap, a wedge shaped block supported by the strap and adapted to move between the power roller and thread feeding rollers, for throwing the rollers out of operation, and said thread guide adapted to exert a tension on the strap for normally holding the block out of operation.

1,353,227. PROCESS OF MAKING PISTON-RINGS. HARRY S. FRANK, St. Louis, Mo. Filed Dec. 7, 1918. Serial No. 265,723. 4 Claims. (Cl. 29—156.1.)



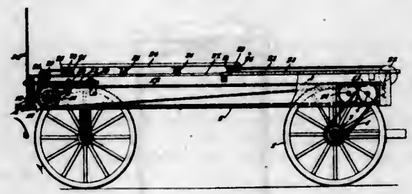
1. The process of shaping a piston ring which comprises placing and holding the ring from rotating in a form of a size different from the size of the ring and of the shape which it is desired to give to the ring; and subjecting the ring to outward radial pressure applied successively, and at spaced distances apart to all circumferential points of the ring, until the molecular arrangement of the ring is changed and the material is set in the size and shape of the form.

1,353,228. NAVAL, MILITARY, AND OTHER METALLIC BADGE. CHARLES F. GAUNT, Birmingham, England. Filed Dec. 4, 1919. Serial No. 342,522. 2 Claims. (Cl. 2—150.)



1. The combination with a backing, of a metallic badge adapted to be mounted upon said backing and means covering parts of said badge and harmonizing in color with said backing whereby the visible parts of the badge appear disassociated from one another.

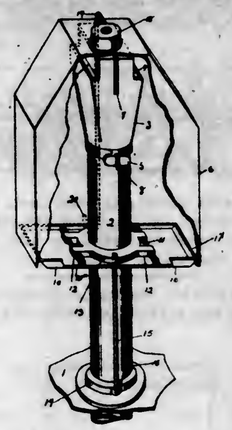
1,353,229. HAYRACK. FRANK GEORGESON, Red Granite, Wis. Filed Feb. 24, 1919. Serial No. 278,876. 1 Claim. (Cl. 214—81.5.)



The combination with a wheel supported body and a stationary rack section at the delivery end of the body, of channeled rails secured to the sides of and extending throughout the length of the body, a movable rack section, wheels supporting the same and movable along the channeled rails, said wheels supporting the movable rack section above so as to move to position over the stationary rack section, the two rack sections constantly lapping, a flexible element secured at its ends to the respective ends of the movable rack section and extending longitudinally within the body, guides for said flexible element and adjacent the ends of the body, a transverse shaft, a member loosely mounted on the shaft and engaging and adapted to actuate said flexible element, clutch members at opposite sides of said loose member and separately shiftable into engagement therewith, means operated by the forward movement of the wheel supported body for actuating one of the clutch members in one direction, and means operated by the forward movement of the wheel supported body for actuating the other clutch member in the opposite direction, and means for shifting either of said clutch members into engagement with the loose member on the shaft whereby said member can be rotated in either direction to shift the movable rack section in either direction upon the rails.

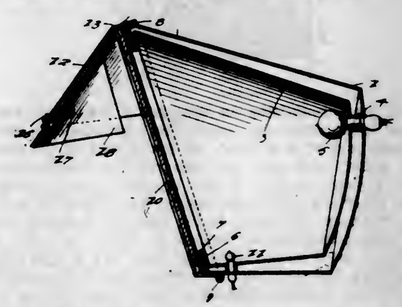
1,353,230. TANK-SIPHON. EDWARD H. GOVE, Biddeford, Me. Filed Mar. 27, 1916, Serial No. 86,913. Renewed Mar. 22, 1920. Serial No. 367,892. 4 Claims. (Cl. 4—5.)

1. In a device of the character described, a tank, a bell siphon comprising a long leg and a short leg, the open top of the long leg flaring and the closed top of the short leg adjacent the open flaring top of the long leg tapering upwardly, a plunger mounted in said short leg comprising a carrying frame and plates pivotally attached thereto, said frame and plates being adapted to reciprocate



in said short leg and said plates to turn on their pivot points, and means for reciprocating said plunger.

1,353,231. AUTOMOBILE-LIGHT DIMMER. JOHN GRIESHAMER, Jacksonville, Fla. Filed Dec. 6, 1916. Serial No. 135,443. 1 Claim. (Cl. 240—41.)



A headlight comprising a substantially tubular shaped body and reflector, one fitting within the other and each being tapered to provide large and small front and rear ends respectively, concaved rear walls closing the rear ends of the body and reflector, an electric lamp socket formed in the upper portion of the rear wall of the reflector to receive an electric lamp to support the same adjacent to the highest point of said reflector and said socket abutting the rear wall of the body to aid in supporting the reflector therein, said body and reflector having their large forward ends disposed on a downwardly inclined plane to provide the greatest reflected surface of the reflector uppermost and to permit the largest proportion of rays of light to escape in a downwardly and forwardly direction, means securing the reflector to the body so as to support said reflector within the body and in spaced relation thereto, and a hood carried by the body and extending to a point in a plane below the electric light.

1,353,232. CONVERTIBLE INTERIOR OF AUTOMOBILES. WILLIAM H. GRIFFIN and OLIVER C. HARTSOUGH, Canton, Ohio. Filed Dec. 20, 1919. Serial No. 346,280. 4 Claims. (Cl. 155—7.)

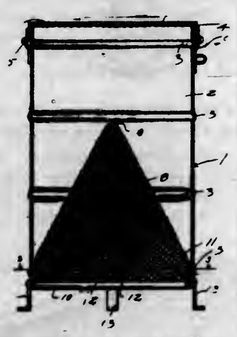
1. A convertible vehicle body including front and rear seats, aprons hingedly connected to the front faces of the rear seats and susceptible to movement outward from said seats, hinged brackets carried by the front members

of the seats and designed when swung outwardly to support the aprons when the latter are swung horizontally, an apertured lip on the outer end of the rear apron, the back members for the front seats being swingingly as-



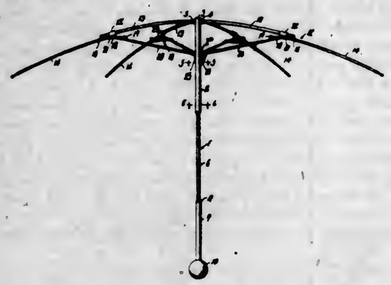
sociated therewith whereby the said backs may be swung rearwardly and rest on the lip of the rear apron, and swinging hook members carried by said backs for engaging in the apertures of the lip.

1,353,233. FLYTRAP. GEORGE J. GUENTLER, Cincinnati, Ohio. Filed Apr. 2, 1918. Serial No. 226,237. 1 Claim. (Cl. 43—118.)



A fly trap comprising an upstanding cylindrical body open at its opposite ends, supporting legs depending from the lower end of said body, the lower edge of the body being turned inwardly and upwardly, a frusto-conical screen member resting in the inwardly and upwardly turned lower end of the body member and having its small upper end open, removable spring clamping means within said frusto-conical screen member to retain the latter in position, a cover hinged upon the upper end of said body and having an open central portion, and a removable upper screen member clamped on said upper end of the body by said cover when the latter is in closed position.

1,353,234. FOLDING UMBRELLA. ART GUSTAFSON, Moline, Ill. Filed Nov. 22, 1919. Serial No. 339,918. 2 Claims. (Cl. 135—25.)



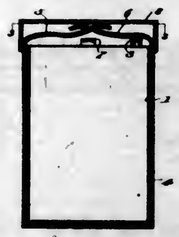
2. A folding umbrella comprising a stick, a sleeve slidable on said stick, ribs pivoted at one end to the upper end of said stick and each composed of two sections hingedly connected at their meeting ends, a spring for normally holding said sections in open position, sleeves slidable on the inner rib sections, brace rods connecting said sleeve on the stick with those on the rib sections, bifurcated arms carried by the outer rib sections at the rear of their pivotal connection, said arms straddling said brace rods and carrying rollers engaged with the inner edges thereof, whereby the raising and lowering of the sleeve on the stick will operate to open and close the outer and inner rib sections.

1,353,235. SHIP CONSTRUCTION. LARS J. HAGEN, Portland, Oreg. Filed Apr. 8, 1919. Serial No. 288,537. 1 Claim. (Cl. 114—84.)



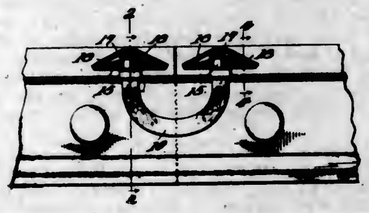
In vessel construction of the character described, the combination therein of, single metal frames in series and secured to each other, a metal keel secured to the frames, wooden planking secured upon the outside of the frame skeleton thus arranged, by bolts extending through the frame and plank materials, and transverse wooden planking strakes secured to the inner surface of the first mentioned planking to a desired height between the said frames the sides of the inner strakes adjacent the frames abutting closely against the frames and engaging them with close joints, for the purposes indicated.

1,353,236. CAN-COVERING. JOSEPH M. HATFIELD, Independence, Kans. Filed July 18, 1919. Serial No. 311,723. 1 Claim. (Cl. 220—9.)



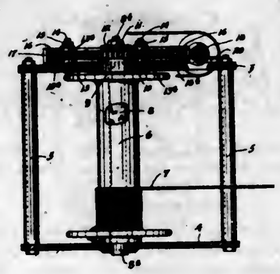
A protective device for cans holding explosives, comprising a casing of rubber of a size and shape to conformingly receive the can with the upper edges of the casing flush with the top of the can, the upper edges of opposite sides of the casing being formed with integral reduced strip-like extensions, one extension being provided with a transverse slot and being of greater width than the other extension and said other extension passing through said slot whereby to hold both extensions together, and a cap detachably engaged exteriorly upon said casing and covering the top of the can and said extensions.

1,353,237. RAIL-BOND FOR ELECTRIC RAILWAYS. EDWIN A. HOFFMAN and THOMAS P. HIM, Wilkes-Barre, Pa. Filed June 14, 1919. Serial No. 304,099. 6 Claims. (Cl. 173—278.)



5. The method of forming a joint between a bond terminal and a rail which consists in providing the terminal with a surface which forms an obtuse angle with the rail when the terminal is applied thereto, and striking an arc between the welding electrode and the apex of the angle, so as to fill the latter with the welding metal.

1,353,238. WINCH. JOHN H. HOLMES, Anoka, Minn. Filed Oct. 13, 1919. Serial No. 330,322. 3 Claims. (Cl. 254—186.)

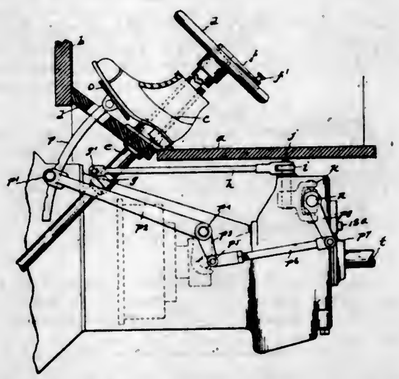


1. The combination with a winch including a framework and a drum mounted therein, of a central gear connected to said drum, pinions journaled on the winch frame and meshing with said central gear, an annular internal ring gear surrounding and meshing with said pinions and provided with external worm gear teeth, a shaft journaled on the winch frame and provided with a worm engaging the external worm gear teeth of said ring gear, said pinions having hubs on which said annular gear runs with rolling engagement.

1,353,239. DRESSING FOR AUTOMOBILE-TOPS AND THE LIKE. CHARLES A. HONIG, St. Louis, Mo. Filed Sept. 2, 1919. Serial No. 321,149. 2 Claims. (Cl. 134—17.)

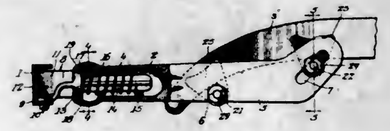
1. A composition of matter for automobile tops and the like, consisting of turpentine asphaltum, japan, boiled linseed oil, turpentine, rubber, neat's-foot oil and Prussian blue.

1,353,240. SELECTIVE CHANGE-SPEED GEARING AND CONTROL MECHANISM. GEORGE B. INGERSOLL, Detroit, Mich. Filed May 7, 1919. Serial No. 295,414. 10 Claims. (Cl. 74—59.)



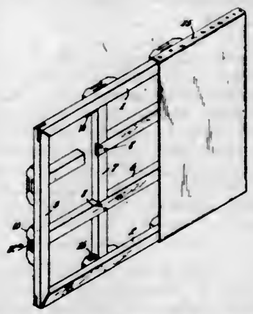
1. In a change speed gearing, a clutch, a main shaft, a driving shaft, a lay shaft, a series of telescopic gears mounted on the driving shaft, a series of telescopic gears mounted on the lay shaft constantly in mesh with the gears on the driving shaft, a series of telescopic collars mounted on the main shaft rotatable therewith corresponding with the gears mounted on the driving shaft, selective means for such gearing, and means for engaging individual collars on the main shaft with corresponding gears on the driving shaft coincident with the throwing in of the clutch.

1,353,241. AUTOMOBILE-BUMPER. WALTER V. ISGRIG, Milwaukee, Wis., assignor to Badger Manufacturing Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Mar. 12, 1919. Serial No. 282,095. 8 Claims. (Cl. 293—55.)



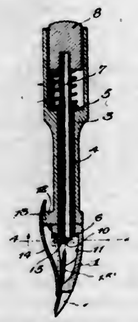
2. A bumper bracket comprising an arm for mounting upon an automobile frame, and having a beveled surface, a member slidably supported by said arm and having a beveled surface for coöperation with the beveled surface on said arm, and yieldable means for maintaining the beveled surfaces of said arm and said member in wedging engagement.

1,353,242. FRAME FOR MOVING-PICTURE SCREENS. AXEL THEODOR JACOBSSON, Cleveland, Ohio. Filed Apr. 17, 1920. Serial No. 374,585. 1 Claim. (Cl. 45—130.)



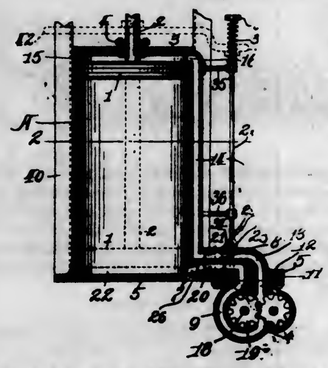
A screen comprising an outer frame having bars with loose joints in the corners of the frame, a fabric fixed to said bars, blocks fixed to all of said bars, an inner rigid frame having crossed bars the ends of which are loosely mortised into said blocks, and wedges in the mortises, between said ends and the blocks, to expand the bars of the outer frame.

1,353,243. HAIR-CUTTER. WILLIAM A. JAMES, Providence, R. I. Filed Feb. 10, 1920. Serial No. 357,665. 8 Claims. (Cl. 30—12.)



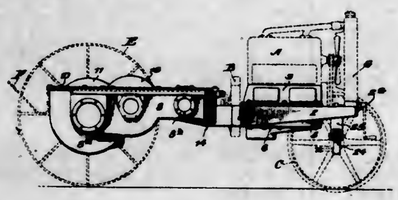
1. In a hair cutter, a guard, a blade clamping plate borne by the guard, a movable handle connected to the guard, means borne by the handle to move the plate to clamping position and means extending through the handle to effect outward movement of the blade.

1,353,244. HYDRAULIC HOIST. FREDERICK JOERNS, St. Paul, Minn., assignor to Cora A. Joerns, St. Paul, Minn. Filed June 18, 1917. Serial No. 175,363. 3 Claims. (Cl. 138—9.)



1. In a device of the class described, a cylinder having a movable piston therein, a pump, passage-ways connecting said pump with either end of said cylinder, a three position valve in said passage-ways, said valve being formed with two separate passage-ways so that when said valve is in open position, said pump can draw oil from said cylinder to transfer it from one side of the piston to the other, the second position, of said valve locking the oil in said cylinder and forming a by-pass for the passage-ways of said pump and a third position of said valve forming a by-pass for the oil in said cylinder to pass from one side of piston to the other and closing the passage-ways connecting said pump with said cylinder.

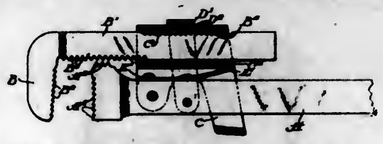
1,353,245. COMBINED ENGINE AND VEHICLE FRAME. CARL E. JOHNSON, St. Paul, Minn. Filed Oct. 10, 1918. Serial No. 257,568. 1 Claim. (Cl. 180—54.)



A combined engine, transmission and gear casing adapted to form also a tractor vehicle body and in two detachable units, one of said units being supported by one axle of the vehicle and the other by the other axle, lugs carried by one unit, a yoke carried by the other adapted to register with the lugs, alining sleeves carried respectively by the yoke and lugs, bushings in said sleeves of less length than the sleeves, bolts passing through the sleeves and bushings, and collars on the bolts bearing on the sleeves and out of contact with the bushings, as and for the purpose set forth.

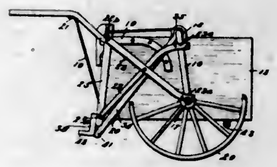
1,353,246. PIPE-WRENCH. ARTHUR WELLINGTON KIEFER, Chicago, Ill. Filed Jan. 5, 1920. Serial No. 349,366. 4 Claims. (Cl. 81—103.)

1. A pipe wrench comprising a handle portion having teeth at one end and constituting a jaw member, an opposing jaw member having a shank provided with teeth arranged to engage certain teeth on the handle member, a guiding and retaining member pivotally connected to said handle member and arranged to slidably receive said shank, a second guiding and retaining member pivotally connected to said handle member, said shank having teeth on the opposite side of the shank from the teeth which engage the teeth on the handle member, and



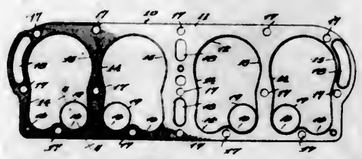
teeth carried by said second named retaining member and arranged to engage the last mentioned teeth on said shank.

1,353,247. SELF-LOADING COAL AND GRAIN TRUCK. JOHN ANDREW KLOVSTAD, Hope, N. D. Filed Jan. 10, 1920. Serial No. 350,623. 7 Claims. (Cl. 298—2.)



5. A self loading truck including a scoop pan, an arched axle from which said pan is freely suspended, supporting wheels carried by said axle upon which said pan is adapted to be balanced, a wheel frame rigidly connected to said axle and comprising side sections rigidly secured to the axle arms and to a rear yoke, said yoke comprising top and bottom rear cross bars, and top side bars rigidly secured at one end to the arched axle, loading levers pivotally secured at one end to arch of said axle a pivoted latch mounted on the top cross bar of the wheel frame and adapted to automatically couple the said wheel frame and scoop pan, a cross beam connecting the said loading levers adjacent their lower ends, and a pivoted latch carried by the lower cross bar of the aforesaid yoke and adapted to automatically couple said loading levers with said yoke of the wheel frame.

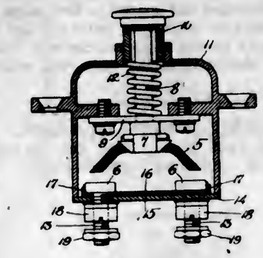
1,353,248. CARBURETING-SCREEN. FRANK W. LAPHAM, Cicero, Ill. Filed Sept. 18, 1919. Serial No. 324,674. 5 Claims. (Cl. 123—141.)



1. A gasket for the cylinder head of an internal combustion engine, and a screen secured to the gasket and adapted to be arranged near the intake valve of the engine.

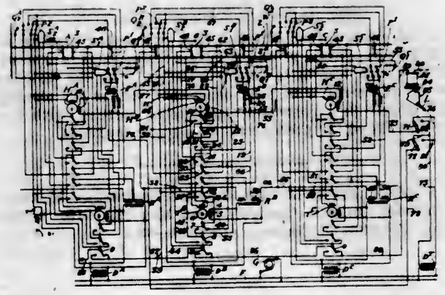
1,353,249. ELECTRIC SWITCH. THOMAS L. LEE, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 10, 1916. Serial No. 90,204. 1 Claim. (Cl. 200—166.)

An electric switch comprising: a first contact-member; a support; a second contact-member mounted on the support and having a stem and a flat contact-surface normal to the axis of the stem, said surface being substantially greater than that of the first contact-member and eccentrically disposed with relation thereto; and means on the support, normally preventing rotation of the second contact-member, said member being disengageable from said means and rotatable, when so disengaged, about the axis



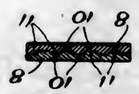
of its stem to bring a fresh portion of its contact-surface into coöperative relation with the first contact-member.

1,353,250. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. LLOYD V. LEWIS, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 9, 1920. Serial No. 350,323. 19 Claims. (Cl. 246—33.)



6. In combination, a stretch of railway track over which traffic moves in both directions, said stretch being divided into a plurality of successive sections, a source of alternating current at the junction of each two sections, and means for connecting each source across the rails of one adjacent section or the other.

1,353,251. JOINTED WELTING. CHESTER D. LIBBY, Malden, Mass., assignor to A. C. Lawrence Leather Company, Boston, Mass., a Corporation of Maine. Filed Mar. 26, 1919. Serial No. 285,349. 4 Claims. (Cl. 36—78.)

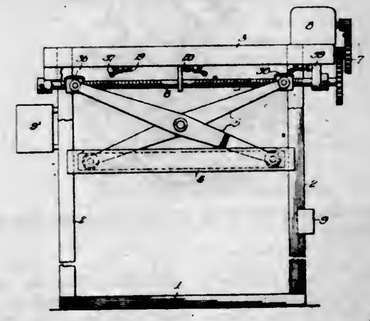


2. An article of manufacture consisting of a strip of welting formed of a plurality of shorter strips with their ends overlapping and secured together and provided on their opposed overlapping contacting surface portions with interlocking longitudinal ridges and grooves.

1,353,252. SAFETY DEVICE FOR BALING-PRESSES. CHARLES ROSS LITTIG, Chicago, Ill. Filed Oct. 12, 1917. Serial No. 196,127. 3 Claims. (Cl. 100—11.)

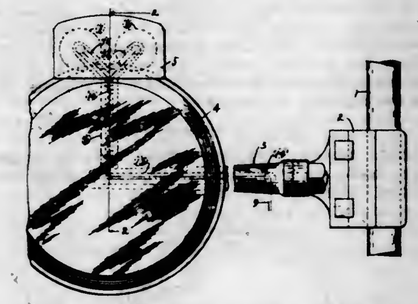
1. In combination, a motor, an overload switch, a reversing switch having two circuit closing positions, a limit switch arranged to operate only when said reversing switch is in one position, a second limit switch arranged to operate only when said reversing switch is in the other position and an additional limit switch controlling the operation of said overload switch.

3. In combination, a three phase electric motor having an armature, a source of three phase current therefor, an electromagnetic switch controlling the current supplied to said armature from said source, a reversing switch connected in circuit with said armature, a starting switch



and an overload switch in the armature circuit between said electromagnetic switch and said reversing switch, an overload limit switch short circuiting said overload switch during the period when the motor is starting, and means for preventing intermittent operation of said magnetic switch after said overload switch operates.

1,353,253. AUTOMOBILE-SIGNAL. CHARLES F. LIVINGSTON and EDWARD E. LORDGE, San Jose, Calif. Filed Nov. 11, 1919. Serial No. 337,247. 1 Claim. (Cl. 240—7.)

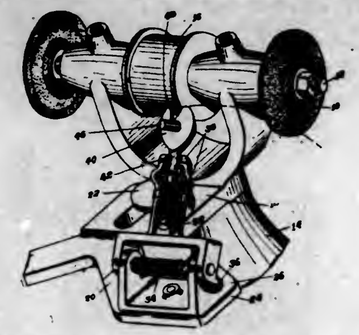


The combination with a look-back mirror for automobiles, of a hood mounted upon the edge thereof and extending a distance over the front thereof, a pair of illuminating units of different colors mounted in an electric circuit and positioned under said hood whereby the light emitted therefrom is concentrated on said mirror, and means for rendering either unit operative or inoperative.

1,353,254. GRINDING DEVICE FOR ROTARY CUTTERS. HENRY M. LOOMER, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 17, 1917. Serial No. 162,758. 8 Claims. (Cl. 51—7.)

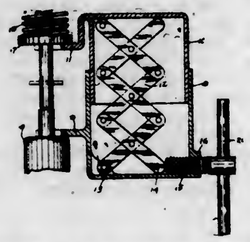
1. In a machine for grinding rotary cutters, a grinding wheel, a support, an arm pivotally mounted upon said support for movement about an axis substantially parallel to the axis of the grinding wheel, a table carried by said

arm and having means for rotatively supporting a cutter, and means for adjusting said table on said arm to vary



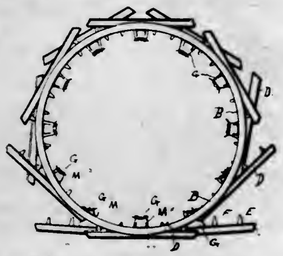
the angle between the plane of said table and the plane of oscillation.

1,353,255. VALVE-SPRING LIFTER. NILS H. LUNDQVIST, New Haven, Conn., assignor of one-half to Carl Park, New Haven, Conn. Filed Apr. 19, 1920. Serial No. 374,853. 2 Claims. (Cl. 29—86.3.)



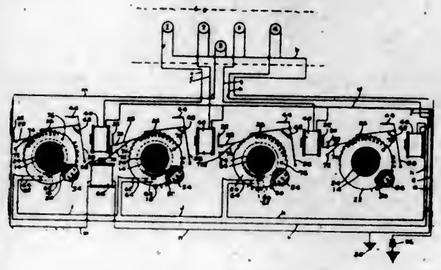
2. A valve-spring lifter comprising a cup member, a telescopic cap member, each formed with an outwardly projecting fork, a lazy-tongs arranged between the two members, and a screw bearing against one end of the tongs and adapted when turned inward to elongate the tongs and separate the members.

1,353,256. TRACK-LAYING WHEEL. OTIS G. MALSBARY, Parlier, Calif. Filed May 20, 1918. Serial No. 235,504. 2 Claims. (Cl. 305—13.)



1. In a track laying wheel, the combination of duplicate rims attached to a common hub, each of said rims having an outwardly projecting flange on each side, a plurality of uniform sized units of track each of said units being of such width that it will fit loosely between the flanges on either rim, a projection at the approximate center of each unit adapted to pass through a hole in the rim, the shape of the projection and the shape of the hole being adapted to permit the unit of track to have a rocking lateral motion, means at the top of the projection adapted to keep it from falling through the hole in the rim, a plurality of upwardly projecting conical guides on each of said units, and holes in the rim adapted to register with and receive said conical projections, the units on each rim being arranged and spaced so that when lying on the ground the ends of contiguous units on each rim will meet, and the units on the duplicate rim will overlap the meeting place of the units on the other rim, substantially as described.

1,353,257. ELECTRIC COMBINATION-LOCK. ADOLPH Z. MAMPLE, St. Paul, Minn. Filed Aug. 29, 1919. Serial No. 320,616. 8 Claims. (Cl. 70—63.)



4. An electrical combination lock comprising a series of combination wheels provided with notches, means tending to hold said wheels in initial position with the notches out of alinement with each other, and means for placing said wheels in succession in unlocking position with the notches alined, by predetermined electric impulses.

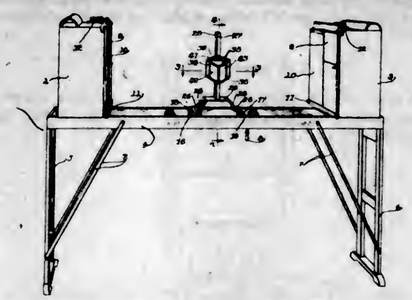
1,353,258. PERFUMIER. LOUIS LINNEAUS MARTIN, Toronto, Ontario, Canada. Filed May 17, 1919. Serial No. 297,933. 3 Claims. (Cl. 230—33.)



1. A perfumier, comprising, a hollow fan-shaped member formed of thin sheet material having a container portion adapted to contain a supply of perfume, the faces of the fan-shaped member having longitudinal grooves leading to pocket-shaped openings directing the air inwardly and the outer edge of the fan-shaped member having perforations therethrough.

1,353,259. OPTICAL APPARATUS. WILLIAM MEYER, Chicago, Ill. Filed Jan. 31, 1919. Serial No. 274,166. 10 Claims. (Cl. 88—29.)

1. In combination, a pair of pictures to be observed, a viewing device arranged therebetween and adapted for portraying the images of said pictures to the observer, said viewing device comprising a pair of viewing mirrors pivotally mounted upon a common vertical axis and means for swinging said viewing mirrors in unison about said common vertical axis to increase or decrease the angle



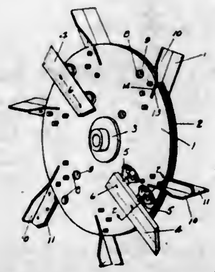
therebetween, whereby faulty alinement of the images is readily overcome.

1,353,260. MATTRESS-SUPPORT. FREDERICK I. MONKS, Houston, Tex. Filed Nov. 3, 1919. Serial No. 353,394. 1 Claim. (Cl. 5—1.)



A mattress support including a frame-work formed with a bottom, side and end members, lengthwise ribs extending transversely between the side members and spaced apart, forming parallel compartments, said side and end members extending up above the partitions and forming a mattress retainer, a series of inflatable units arranged in each compartment, said units being formed of elastic material, fluid conducting tubes connecting the units of each series, a fluid inlet and a fluid outlet connected to each series of units and valves controlling said inlet and said outlet.

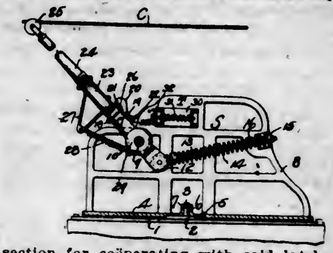
1,353,261. CUTTING AND DISTRIBUTING DEVICE FOR SILO-FILLERS. JOHN F. MORGAL, Springfield, Ohio, assignor to The E. W. Ross Company, Springfield, Ohio, a Corporation of Ohio. Filed Mar. 22, 1920. Serial No. 367,742. 12 Claims. (Cl. 146—26.)



1. In a device of the character described, a rotary supporting member, and a fan blade comprising two angle irons having two of their flanges arranged face to face and rigidly connected directly one to the other, one of said angle irons extending beyond the other and rigidly secured to said supporting member.

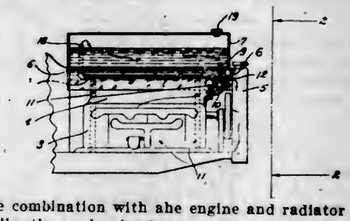
1,353,262. TROLLEY-RETRIEVER. ELBY A. MORRIS, Leetonia, Ohio. Filed June 25, 1917. Serial No. 176,796. 1 Claim. (Cl. 191—88.)

A trolley retriever including a rotatably supported frame having opposite side walls, a pole supporting unit consisting of a pivot section including an enlarged body portion journaled in the side walls of the frame and having oppositely disposed portions one of which constitutes a spring abutment while the other carries hinge knuckles, and a pole receiving socket section also having hinge knuckles for coöperating with the knuckles on the pivot section to constitute a hinged connection therebetween, a pivoted latch carried by the pivot section, a keeper on the



socket section for coöperating with said latch, an offset bracket arm also on the socket section on the side opposite the keeper, a spring connecting the extremity of the bracket arm with the enlarged portion of the pivot section, a yielding abutment located in the path of movement of the pivoted latch, and a compression spring arranged between the walls of the frame and exerting pressure on the abutment end of the pivot section.

1,353,263. AUXILIARY RADIATOR FOR AUTOMOBILES. WILLIAM NASH, Denver, Colo., assignor to The Nash Tractor Company, Denver, Colo., a Corporation of Colorado. Filed Nov. 13, 1917. Serial No. 201,733. 4 Claims. (Cl. 123—174.)



1. The combination with ahe engine and radiator of an automobile, the engine having a water jacket, of an auxiliary radiator comprising a tank, a coupling connected with the upper part of the water jacket and connected with the automobile radiator, said coupling having a partition therein, forming a chamber on each side of said partition, a pipe connection between each of said chambers and the tank, one chamber being in communication with the water jacket and the other in communication with the automobile radiator, said partition having a small opening therethrough.

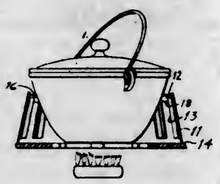
1,353,264. FLUME. WILLIAM E. NEWMAN and DAVID K. STUART, Ogden, Utah. Filed June 22, 1920. Serial No. 390,879. 1 Claim. (Cl. 61—15.)



A flume comprising trough-shaped primary and secondary sections provided along their edges with lateral flanges, the primary section being folded rearwardly and forwardly upon itself to form an exterior transverse socket across the upper edges of which the flanges of the primary section extend, the extremity of the secondary section being inserted into the socket, and the upper edges of the secondary section being beveled to permit the same to pass beneath the flanges of the primary section,

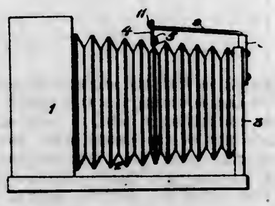
the flanges of both sections being set back from the ends of the respective sections to permit the beveled extremity of the secondary section to enter the socket; a brace extended transversely of the sections; and a binder uniting the ends of the brace, the flanges of the sections being cut away close to the body portions of the sections to define openings which receive the binder, and to define at the ends of the flanges of the sections, abutting fingers which overlap the outer edge of the binder and serve at once as supports for the ends of the brace and to prevent an undue telescoping of the sections and a subsequent closing of the openings.

1,353,265. GAS-SAVING AND HEAT-RETAINING DEVICE. HEIKICHI OSHIDE, Santa Barbara, Calif. Filed Mar. 25, 1920. Serial No. 368,699. 4 Claims. (Cl. 126—215.)



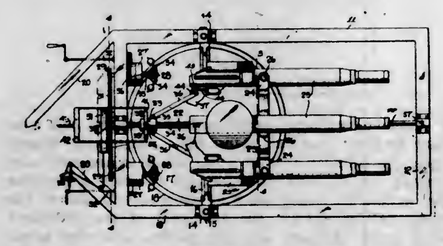
1. A heat retaining device comprising a substantially frusto-conoidal body, a series of inwardly projecting and horizontally disposed ribs extending therefrom, inwardly projecting and substantially vertical ribs disposed beneath the horizontal ribs, and a detachable utensil-supporting ring seated upon the first-named ribs.

1,353,266. CAMERA. ROBERT H. PEARMAN, Boston, Mass., assignor to Thomas E. Steere, Providence, R. I. Filed July 31, 1919. Serial No. 314,496. 7 Claims. (Cl. 95—39.)



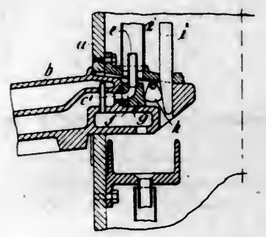
3. In combination with a camera having a bellow and a front board, laterally foldable means carried by the front board for supporting the bellows intermediate its ends by suspension.

1,353,267. RAPID-FIRE GUN. VINTON ULRIC DAHLGREN PIERCE, Washington, D. C. Filed Apr. 3, 1917. Serial No. 159,411. 39 Claims. (Cl. 89—9.)



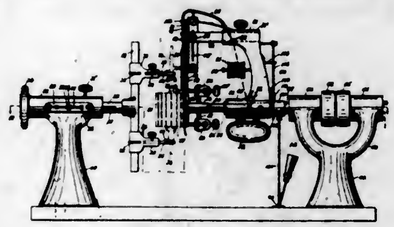
1. A machine gun comprising a plurality of barrels extending in the same direction, means for rotating the barrels around a central axis extending longitudinally of the barrels, and manually controlled means for shifting the barrels from a parallel relation into or out of a divergent or convergent relation while the barrels are being rotated.

1,353,268. MECHANICAL FURNACE. ARTHUR RAMÉN, Helsingborg, Sweden. Filed May 1, 1918. Serial No. 231,862. 6 Claims. (Cl. 257—119.)



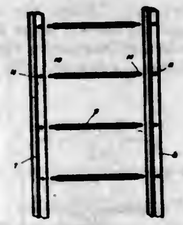
2. A stirring device for a mechanical roasting furnace, comprising a hollow shaft and stirring arms, a circulation channel, and a detachable water supply pipe for each arm, said pipe at its outlet end having tightening body, a correspondingly formed seat surrounding the water inlet of the circulation channel of the arm and against which said body is adapted to be tightly pressed, means located inside the shaft of the furnace for pressing said body against said seat, and means operable from outside the shaft for operating said first means.

1,353,269. WINDING-MACHINE. PHILIP F. RHOADES, New York, N. Y., assignor of one-third to William M. Welling, Long Valley, N. J. Filed May 3, 1919. Serial No. 294,598. 14 Claims. (Cl. 242—13.)



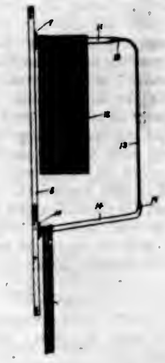
4. In a machine for coil-winding a drum having peripheral slots, the combination of means for supporting and positioning the drum, a main frame and means for rotating it as about an axis, a rigid frame adjustably supported at the outer end of said main frame, a pivotally connected frame hingedly engaged with said rigid frame, and a tubular wire-drawing needle supported by the said pivotally connected frame and having a hooked-shaped end adapted to enter said drum slots, adjustable means for guiding said needle in a path about the drum and in a manner to enable said hooked-shaped needle end to pass during each revolution of the main frame through two slots therof, whereby the needle when the main frame is rotated will lead or draw a wire through both of said slots and across as well the opposite ends of the drum.

1,353,270. LADDER. CHESTER A. RICH, Cincinnati, Ohio, assignor to The Rich Pump Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 21, 1919. Serial No. 284,088. 2 Claims. (Cl. 228—58.)



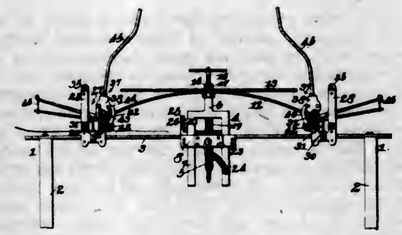
1. A ladder comprising rails and rounds located between the rails, the ends of the rounds having an impregnation of material adapted to prevent shrinkage thereof within the rails.

1,353,271. TOWEL-RACK. BRAYTON G. RICHARDS, Chicago, Ill., assignor to Jacques Rousso, Los Angeles, Calif. Filed Mar. 1, 1920. Serial No. 362,428. 7 Claims. (Cl. 45—32.)



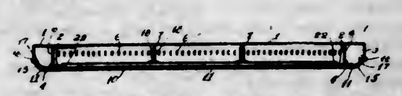
3. A towel rack comprising a towel guide member twisted at one point and adapted to hold towels provided with securing members having openings therein to slide on said guide member, substantially as described.

1,353,272. DEVICE FOR ARCHING AND FITTING SEMI-ELLIPTIC SPRINGS. JOSEPH ISAAC ROBERTS, Prescott, Ariz. Filed Feb. 28, 1919. Serial No. 279,764. 10 Claims. (Cl. 153—51.)



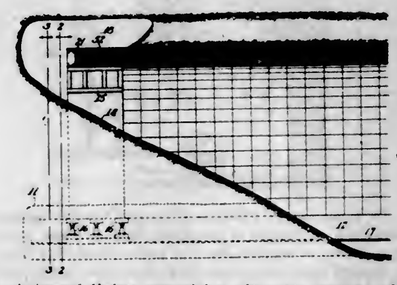
1. A portable spring-leaf forming device, comprising a trestle, a form, clamp frames movable on the trestle and having means for gripping the ends of the form, and including means for supporting the ends of the form when the latter is elevated for the spring leaf finishing operation and when the clamp frames are moved inwardly, central supporting means for the form comprising an arching frame, adjustable means embodied in the arching frame for clamping the form and a leaf bar in position prior to the forming operation, and manually operable pressers associated with the clamp frames, including a presser frame with a presser roller for engaging the leaf bar, a loosely hung clamp roller for engaging the form to obtain the clamping action, an operating handle attached to each presser frame, and a handle for turning the presser roller to accomplish the forming operation.

1,353,273. TRAY. CAMILLE E. ROY, Chicago, Ill. Filed Apr. 3, 1920. Serial No. 371,019. 5 Claims. (Cl. 211—28.)



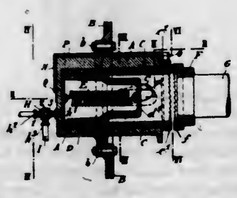
4. A tray including a stamped frame presenting an inverted U-shape in cross-section, the outer wall of said frame being of less vertical extent than the inner wall thereof, and a bottom for said frame terminating at said outer wall and having a groove for the reception of the said outer wall.

1,353,274. TUNNEL CONSTRUCTION. HENRY W. SCHLUETER, Los Angeles, Calif. Filed May 12, 1917. Serial No. 168,231. 3 Claims. (Cl. 61—45.)



1. A tunnel lining comprising alternate courses of preformed members and cast monolithic ribs, each of said courses being continuous and self supporting throughout the arch; said cast monolithic ribs being interlocked with the adjacent courses in such a manner as to tie said courses together; a series of rods placed parallel with the axis of the tunnel and passing through said preformed and cast members; and fastening means on each rod for securing either end of said rod to one of said preformed members.

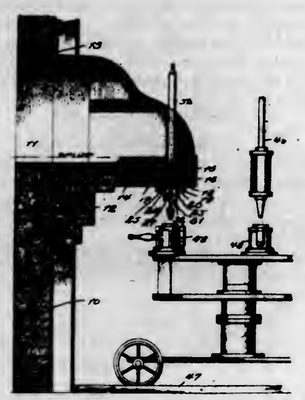
1,353,275. POWER-BARRING APPARATUS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,500. 5 Claims. (Cl. 121—37.)



1. In barring apparatus, a shaft having a ratchet member fixed thereon, a cylindrical casing having a restricted port at one end to admit fluid-pressure to the interior of the same, a piston reciprocative in the casing and constituting with the same a telescopic chamber of large ca-

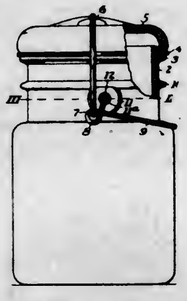
pacity, as compared with the admission port, for the expansion of the fluid-pressure therein to effect a slow advance of the piston, a sleeve reciprocative between the casing and the piston and having a ratchet member complementary to and normally separated from the ratchet member fixed on the shaft, and a tenon on the piston having sliding engagements with a helical slot in the sleeve and a longitudinal slot in the cylindrical casing so that the advance of the piston will impart a slowly rotative advance to the sleeve to engage the complementary ratchet members to turn slowly the shaft through a partial revolution.

1,353,276. DROP-FEEDING DEVICE FOR GLASS-MACHINES. ALEXANDER L. SCHRAM, Hillsboro, Ill., assignor, by mesne assignments, to Drey Automatic Glass Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 28, 1915. Serial No. 47,719. 8 Claims. (Cl. 49—55.)



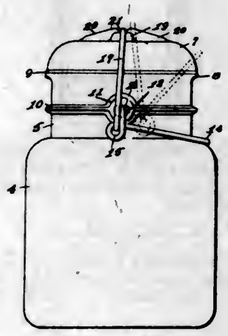
4. In combination with partible cup shaped gathering devices, one of which is provided with a glass severing edge, a knife, a support for the knife permitting vertical play thereof when moved and an adjustable weight acting on the knife to cause its cutting edge to bear against the cutting edge of one of the gathering devices.

1,353,277. JAR. ALEXANDER L. SCHRAM, Hillsboro, Ill. Filed Apr. 17, 1918. Serial No. 229,089. 2 Claims (Cl. 215—88.)



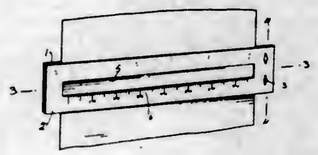
1. A jar having a body portion and a reduced neck portion, a lid receiving flange formed around the upper end of the neck portion and slightly below the top edge thereof, a second flange surrounding the neck portion and spaced apart from the lid receiving flange and the body portion, a boss located on each side of the neck portion below the second flange and formed integral with said flange and neck portion and spaced apart from the body portion, said bosses being provided with central recesses, a bail lever having inturned ends seated in the recesses formed in the bosses, loops formed in said bail lever, and a bail provided with inturned ends seated in said loops.

1,353,278. FRUIT-JAR. ALEXANDER L. SCHRAM, Hillsboro, Ill., assignor to Schram Glass Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed June 14, 1919. Serial No. 304,168. 4 Claims. (Cl. 215—90.)



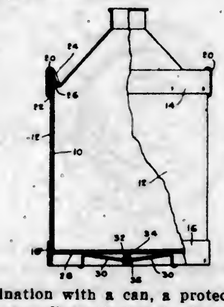
1. A fruit jar comprising a body and a reduced neck portion, the neck portion being provided with a lid receiving shoulder and a gasket retaining recess, a rib formed integral with the neck portion substantially midway between the body of the jar and the lid receiving flange, bosses formed on the opposite sides of the neck portion and integral with the rib surrounding the neck portion, recesses formed in the bosses provided on their top with substantially flat horizontal upper walls, a lid clamping wire having its ends inturned and seated in said recesses, so as to provide shifting pivot points for said wire, a lever wire, and an eccentric connection between the lid clamping wire and the lever wire.

1,353,279. COPY-GUIDE. JACOB SCHULTHESS, Salt Lake City, Utah. Filed Mar. 5, 1919. Serial No. 280,785. 1 Claim. (Cl. 120—33.)



A copy guide comprising base and top strips of light pliable cardboard material of lengths greater relatively than the width of legal cap paper, the top strip of thin pliable cardboard material having an elongated slot of a length greater relatively than the maximum typewritten line and being of a height greater relatively to the height of a single typewritten line, whereby but a single typewritten line is visible through the slot as the guide is adjusted down the page, the upper face of the top strip of cardboard adjacent the lower edge of the slot having a scale of graduations for indicating the proper spacing of words on the line, and detachable means clenchingly penetrating the top and base strips for clamping the two strips at one end of the guide, whereby the adjacent faces of the strips, particularly adjacent the clenching means, may grip the page with friction greater relatively than the weight of the free unattached ends of the two strips, whereby the guide may remain placed relatively to the page.

1,353,280. DEVICE FOR SECURING PROTECTING-JACKETS UPON CANS. WILLIAM H. SEMON, Minneapolis, Minn. Filed Nov. 24, 1919. Serial No. 340,171. 2 Claims. (Cl. 220—11.)



1. In combination with a can, a protecting jacket surrounding the can, clips attached to the top of the jacket and engaging the customary flange on the upper portion of the can, clips attached to the bottom of the jacket and extending to the center of the bottom of the can whereby a protecting bottom member is held in place, and a sleeve for holding said last-mentioned clips together at the center of the bottom.

2. In combination with a can, a protecting jacket surrounding the can, top and bottom hoops secured to said jacket, clips secured over the top hoop and engaging the customary flange on the upper portion of the can, clips secured over the bottom hoop and having arms extending to the center of the bottom of the can whereby a protecting bottom member is held in place, and a sleeve surrounding the inner portions of said arms for holding said last-mentioned clips together at the center of the bottom.

1,353,281. VANITY-CASE. ROBERT H. SHARP, Chicago, Ill. Filed June 14, 1920. Serial No. 388,950. 3 Claims. (Cl. 132—34.)



3. In a toilet article container, the combination with a cylindrical open bottom member and a cup shaped closure member adapted for operative engagement with each other, of means for securing a toilet article within the latter, a mirror within the former and visible through said open bottom, and a toilet preparation cup removably positioned within said lower member and adapted to hold the mirror in place.

1,353,282. JAR-LIFTER. ADELIA G. SHRAUGER, Odanah, Wis. Filed Sept. 25, 1919. Serial No. 326,341. 5 Claims. (Cl. 53—1.)

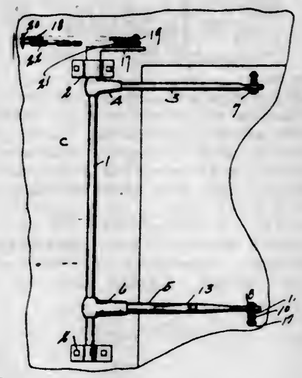


1. A jar lifter comprising a plate, a bail pivotally connected to the plate, and a ring pivotally carried by the bail above the plate.

1,353,283. METHOD OF RECOVERING POTASSIUM CHLORID FROM BRINE. JOSEPH L. SILSBEE, Salt Lake City, Utah. Filed Oct. 22, 1919. Serial No. 332,441. 8 Claims. (Cl. 23—22.)

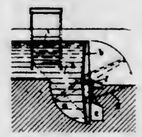
8. The method of recovering crude potassium-bearing material from brines of the character described, containing chlorids of sodium, potassium and magnesium, which consists in evaporating the brine at atmospheric temperatures until it is nearly saturated with respect to potassium chlorid, freeing the concentrated solution from the precipitated sodium chlorid, further evaporating the concentrated solution at atmospheric temperatures to precipitate mixed chlorids of sodium and potassium, without precipitation of salts containing magnesium, and freeing the precipitated potassium-sodium salts from the residual liquor.

1,353,284. RAILWAY MAIL-DELIVERY. HERBERT E. SMITH, Spokane, Wash., assignor to Spokane Mail Equipment Company, Spokane, Wash. Filed July 28, 1919. Serial No. 313,936. 3 Claims. (Cl. 258—23.)



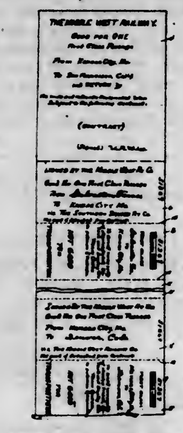
1. The combination with the rotary delivery device having a lever arm and a tension spring urging the device to projected position, means for retracting the device, and an auxiliary spring co-acting with the first spring near the end of the movement of the device to absorb the movement of impact.

1,353,285. REVERSIBLE WEIR. OTTO SOMMER, Zurich, Switzerland, assignor to Stauwerke A.-G., Zurich, Switzerland. Filed May 4, 1918. Serial No. 232,494. 3 Claims. (Cl. 61—26.)



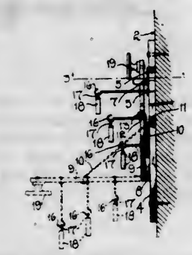
1. A storage dam comprising a pivoted damming element having a crest portion above the pivot line and a pressure portion below the pivot line, a pressure chamber on the up-stream side of said pressure portion at all times under the pressure of the head on the up-stream side of said element, a counter pressure chamber on the down-stream side of said pressure portion and means to automatically supply water, under the head of the up-stream water, to said counter pressure chamber at the high water level of the up-stream water at which the dam is intended to operate.

1,353,286. TRAIN-CHECK RAILWAY-TICKET. GEORGE S. SOWERS, Spring Hill, Kans. Filed Nov. 2, 1918. Serial No. 260,912. 5 Claims. (Cl. 283—23.)



1. A sectional railway ticket comprising a body portion bearing indicia rendering it good for passage, and a train check in the form of a coupon detachably connected with said body portion and bearing indicia identifying it as a part of the railway ticket and authorizing the holder thereof to detach and display said coupon in lieu of the remainder of the ticket on boarding the train.

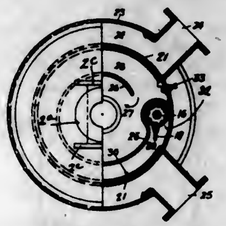
1,353,287. SUPPORT FOR GARMENT-HANGERS. JOSEPH STEIN, Philadelphia, Pa. Filed Apr. 5, 1919. Serial No. 287,679. 1 Claim. (Cl. 45—13.)



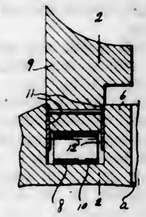
In a device as set forth, a supporting cleat to be supported in a vertical position on a support, an arm operatively hingedly connected to the lower end of said cleat and adapted to assume either a horizontal position at right angles to the cleat, or a vertical position in parallelism with the cleat, means connecting the free and unattached end of the arm and the cleat to support the arm in a horizontal position, means carried by the cleat and being engaged by the arm to support the arm in a vertical position in parallelism with the cleat, and a plurality of hooks extending from the under surface of the arm, said hooks increasing in length from the hinged end of the arm to the free unattached end of the arm, whereby the style of any one of the garments to the rear may be seen whether the arm is in a horizontal position or in a vertical position.

1,353,288. CARBURETER. CHARLES LAWRENCE STOKES, Milong, via Young, New South Wales, Australia. Filed Aug. 5, 1915. Serial No. 43,761. 4 Claims. (Cl. 261—12.)

3. The combination with an internal combustion engine inlet pipe having a section of curved form for conducting fuel-laden air to said engine, of means for bringing exhaust gases into contact with the exterior of the concave wall of said pipe section to heat the same, and a mat of absorbent material lining the interior surface of said concave wall and heated thereby to vaporize the heavier fuel particles centrifugally deposited thereon from said fuel-laden air.

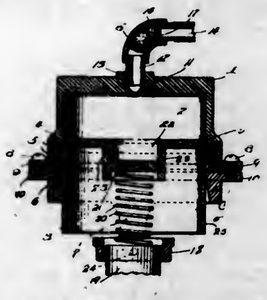


1,353,289. INTERNAL-COMBUSTION ENGINE. FREMONT STOKES, Little Rock, Ark. Filed Apr. 10, 1920. Serial No. 372,867. 3 Claims. (Cl. 123—190.)



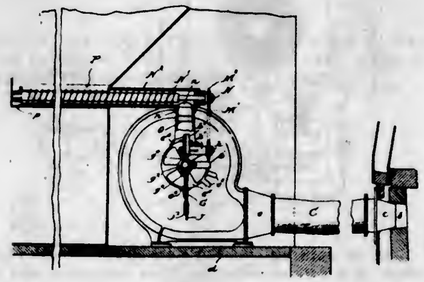
1. An engine of the character described comprising, in combination, a cylinder, a casing provided with a port in communication with the cylinder, said casing being provided with an inwardly directed lip substantially defining the port, a rotary valve mounted within the casing, the outer face of the lip being provided with a channel, a packing member arranged within the channel, yieldable means for constantly urging the packing member toward the valve for contact therewith, and means coacting with the opposed side faces of the channel and the packing member to effect a seal therebetween, said means comprising spring plates carried by certain of said faces and contacting with the remainder of the faces.

1,353,290. COMPRESSED-AIR-VALVE DIAPHRAGM. IVER STOKKE, Sioux Falls, S. D. Filed May 7, 1917. Serial No. 167,111. 4 Claims. (Cl. 137—139.)



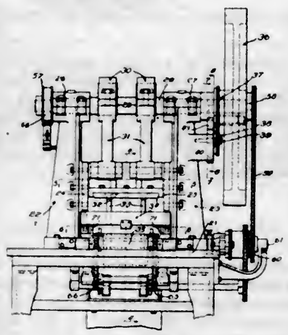
4. A fluid operated valve control comprising a casing, a reversible cup-shaped piston slidable therein and provided in the opposite sides of the bottom of said cup-shaped piston with bearings, and resilient means engaging in the outer bearing for connection at its opposite end to the stem of a valve.

1,353,291. APPARATUS FOR SUPPLYING POWDERED FUEL TO FURNACES. EDMUND H. STROUD, Chicago, Ill. Filed Feb. 26, 1917. Serial No. 150,911. 6 Claims. (Cl. 110—104.)



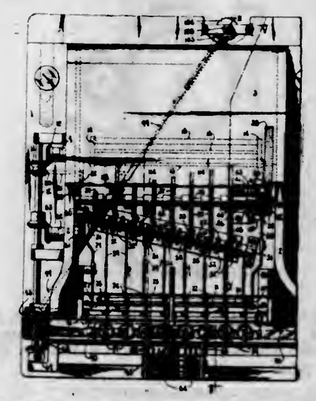
1. An apparatus of the character described, comprising a receptacle for powdered fuel, a plurality of conveyers for leading the powdered fuel from said receptacle, a pair of fans, a motor arranged between and in axial alinement with said fans for imparting revolution thereto, a common shaft for said motor and said fans, connections for delivering the powdered fuel from said conveyers to the casings of said fans, and valve mechanism for delivering air in regulated quantity to said fan casings.

1,353,292. PUNCHING-MACHINE. HJALMAR SWANSON, Chicago, Ill., assignor to Cummins Perforator Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 10, 1920. Serial No. 350,627. 16 Claims. (Cl. 164—88.)



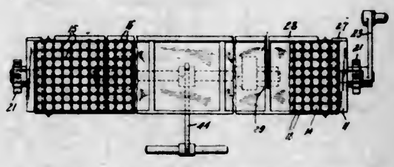
1. In a machine of the character described, in combination: a driven member; a reciprocatory punching mechanism operated by said driven member; a driving member; means for intermittently clutching said driving member with said driven member for effecting an intermittent operation of the punching mechanism; a feed chain for advancing material toward and from said punching mechanism; a driven member for operating said feed chain; means for clutching said last named driven member with the aforesaid driving member, during the periods of rest of the punching mechanism and for disconnecting such driven member therefrom during the operation of the punching mechanism; braking means constantly operative with respect to both driven members; and spring means engageable with the material fed to the punching mechanism for holding such material in punching position; substantially as specified.

1,353,293. CALCULATING-MACHINE. FERDINAND J. TILLMAN, St. Louis, Mo., assignor to Typewriting Calculating Attachment Company, St. Louis, Mo., a Corporation of Missouri. Filed May 21, 1913, Serial No. 769,033. Renewed Feb. 5, 1920. Serial No. 356,425. 14 Claims. (Cl. 235—62.)



1. In a calculating machine, multiplying mechanism and registering mechanism operable by said multiplying mechanism, the said multiplying mechanism including a multiplying shaft provided with a series of multiplying wheels, a transmission shaft, a series of pinions loosely mounted on said transmission shaft adapted to be driven by said multiplying wheels, a series of clutch members, multiplying keys, and means operable by said multiplying keys for engaging any one of said pinions with one of said clutch members.

1,353,294. APPARATUS FOR MANUFACTURING TOILET-PINS. MAXWELL VIDAVER, New York, N. Y. Filed Aug. 1, 1919. Serial No. 314,603. 11 Claims. (Cl. 49—16.)

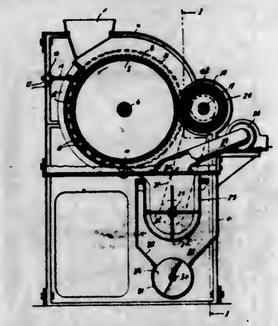


1. In an apparatus of the character described, the combination with a hopper into which the pins are placed divided into a plurality of compartments each of which is provided with apertures in its bottom portion, of a frame supported by said hopper in a plane below the same, a stationary set of jaws carried by said frame, a movable set of jaws adapted to contact with said stationary set of jaws substantially in the plane of rows of apertures in the hopper bottom, means for shifting said movable set of jaws relative to said stationary set of jaws, and means for imparting a vibrating motion to said hopper and the frame carried thereby.

1,353,295. COTTON-SEED-LINTING MACHINE. FELIX E. VOORHIES, Dallas, Tex. Filed Feb. 20, 1919. Serial No. 278,172. 7 Claims. (Cl. 13—10.)

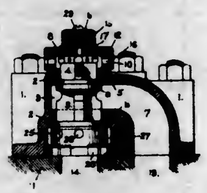
4. A cotton-seed linting machine comprising; a casing, a carder drum mounted in the casing having points to card against the seed, a stationary device mounted adjacent the carder drum to resist the movement of the seed to effect the stripping of the lint therefrom, a plate horizontally disposed underneath the drum dividing the casing, said plate provided with an opening through which the cotton seed and lint fall, a receiving hopper

placed beneath the plate and under the opening to catch the seed and lint, an agitator within the receiving hopper to agitate the seed and lint, said plate having an opening directly above the receiving hopper and agitator, a lint-



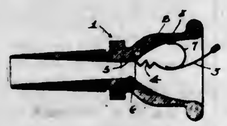
carrying conduit connected with the opening above the receiving hopper and agitator, and a suction fan connected with the conduit to create a draft to draw away the lint from the receiving hopper.

1,353,296. COMBINED BY-PASS AND RELIEF VALVE. EUGENE B. WHELAN, Omaha, Nebr. Filed Aug. 6, 1918. Serial No. 248,521. 2 Claims. (Cl. 121—134.)



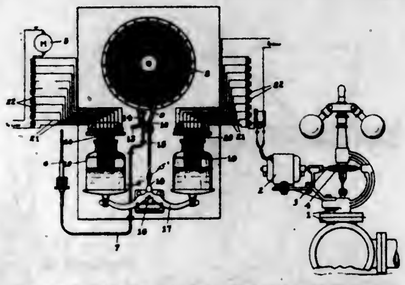
1. In a valve of the type described, a casing having vertically spaced valve seats and adapted to be secured upon the flat top of a steam chest, a vertically movable valve member having portions coöperating with said seat and having guides slidably coöperating with portions of the casing, said casing having steam passages below the valve member and between the valve seats, and a plate interposed in the steam passage below the valve member, having a central cavity and apertures around the cavity, the said valve member having a lower extension movable into the cavity of the said plate when the valve is in lowermost position.

1,353,297. MOUTHPIECE FOR WIND MUSICAL INSTRUMENTS. CHARLES O. WIDMAYER, Syracuse, N. Y. Filed May 16, 1919. Serial No. 297,662. 7 Claims. (Cl. 84—79.)



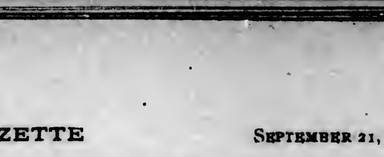
1. In a mouth piece for wind instruments, the combination of a cup-shaped member, and a flexible leaf secured at one end in the cup-shaped member and extending lengthwise of the mouth piece beyond the entrance thereof, the leaf dividing the cavity of the mouth piece into upper and lower sections, substantially as and for the purpose described.

1,353,298. REGULATOR. JOHN A. WIENER, Rothschild, Wis. Filed Mar. 27, 1920. Serial No. 369,886. 8 Claims. (Cl. 234—11.)



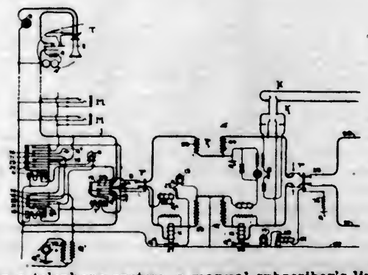
1. In an apparatus of the class described, the combination of a pair of motors, control means for said motors each comprising a series of resistance units, groups of contact point of graduated length connected to said series of resistance units, a recording thermometer comprising a pen arm pivot, an arm adjustably attached to the pivot, a beam having a central arm operatively associated with said arm on said pen arm pivot, and receptacles carried by said beam and containing mercury coacting with the said groups of contact points, for the purpose specified.

1,353,299. COUPLING. CHARLES WILSON, Coventry, England. Filed July 15, 1919. Serial No. 310,925. 2 Claims. (Cl. 279—75.)



1. The combination of an inner member, a circumferential groove upon the outside thereof, an outer member which can rotate upon and move endwise in relation to said inner member, a circumferential groove upon the inside of said outer member, and balls of a diameter less than the width of said grooves engaging both of said grooves, substantially as set forth.

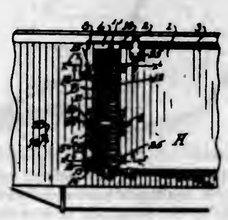
1,353,300. SEMI-AUTOMATIC TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., and HARRY E. HERSHEY, Whitewater, Kans., assignors to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Original application filed Nov. 25, 1914, Serial No. 874,054. Patent No. 1,317,190. Divided and this application filed July 25, 1917, Serial No. 182,663. Renewed Jan. 28, 1920. Serial No. 355,584. 16 Claims. (Cl. 179—73.)



4. In a telephone system, a manual subscriber's line and a trunk connected in circuit, means for separating the

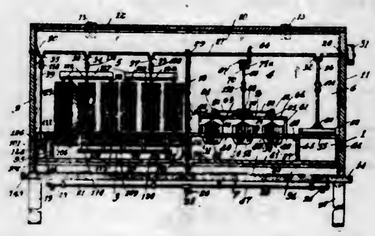
two, and means responsive when the connection is broken for applying a signal to the line until cut off by the subscriber, and automatic means responsive to the cutting off by the subscriber to remove the signal from the subscriber's control.

1,353,301. CAR-DOOR VENTILATOR. GEORGE F. ZAUN, San Bernardino, Calif. Filed Mar. 25, 1920. Serial No. 368,767. 9 Claims. (Cl. 20—19.)



5. The combination with a box car having a slidable door and stop for the door of a ventilating member mounted to swing into or out of position between the door and stop and means for maintaining the ventilating member either in the latter position or against the side of the car.

1,353,302. WASHING-MACHINE. JOHN J. ZOFSAK, Greensburg, Pa. Filed Nov. 18, 1916, Serial No. 132,182. Renewed Feb. 10, 1920. Serial No. 357,748. 12 Claims. (Cl. 141—9.)



3. In a washing machine, an inclosing receptacle; means for holding and supporting a number of dishes in an upright position comprising a removable frame, a plurality of transverse dish holders pivotally and slidably arranged on the top of the removable frame, a pair of supporting rollers revolubly mounted in the said frame; a series of vertical brushes adapted to reciprocate in contact with the dishes; and means for operating the vertical brushes from a source of power.

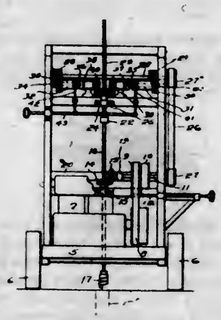
1,353,303. STANDING VALVE. THOMAS M. ADAMS, Houston, Tex. Filed July 7, 1917. Serial No. 179,140. 1 Claim. (Cl. 103—66.)

In a device of the character described, the combination with a pipe, of a collar threaded on the upper end thereof, having an internal annular shoulder, a nipple therein having an outwardly threaded rib which is screwed into the nipple and fits against the said shoulder, forming a water tight joint, a polygonal extension carried by said nipple and provided to receive a wrench, a valve seat carried by the upper end of the nipple, a valve co-acting with said seat, a valve cage protecting the valve and whose upper end has a tapped hole, a pipe threaded into the upper end of the collar and surrounding the cage, and a perforated disk-like protector fitting within said last



mentioned pipe, and having a threaded nipple which is adapted to be screwed into said hole.

1,353,304. FENCING-MACHINE. FRITZ ANTONIUS AHLSTROM, Absaraka, N. D. Filed Apr. 27, 1920. Serial No. 377,003. 1 Claim. (Cl. 255—22.)

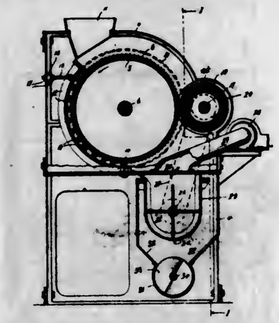


A device of the character described comprising a supporting frame, a vertical shaft, an auger carried by the shaft, a threaded extension of said shaft, a gear wheel threaded upon said threaded extension, a gear wheel splined upon the shaft and held against vertical movement, a horizontal shaft, a gear wheel carried by the horizontal shaft and meshing with the gear wheel that is splined upon the vertical shaft, a second horizontal shaft, means for driving the last named horizontal shaft from first named horizontal shaft and means for driving the first named horizontal shaft from the motor, bevel gear wheels meshing with the gear wheel that is threaded upon the extension of the vertical shaft, clutch elements carried thereby, shiftable clutch sleeves co-acting with said clutch elements and gear wheels carried by said sleeves and meshing with gear wheels upon the second named horizontal shaft.

1,353,305. HEAT-INSULATED VESSEL AND CASING THEREFOR. GEORGE P. ALTENBERG, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed Jan. 31, 1919. Serial No. 274,305. 5 Claims. (Cl. 65—66.)

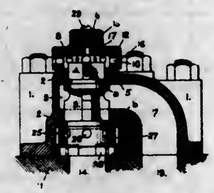
1. In a heat-insulated vessel, the combination of an inner vessel and a casing therefor, said inner vessel comprising a mouth, said casing comprising a downwardly inwardly sloping closed pouring wall provided with an inwardly extending closed lip, a compressible cushion between said mouth of said inner vessel and said casing provided with a compressible lip and said mouth of said

placed beneath the plate and under the opening to catch the seed and lint, an agitator within the receiving hopper to agitate the seed and lint, said plate having an opening directly above the receiving hopper and agitator, a lint-



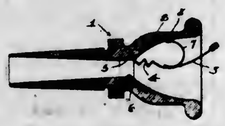
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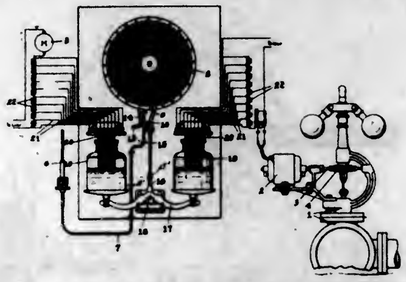
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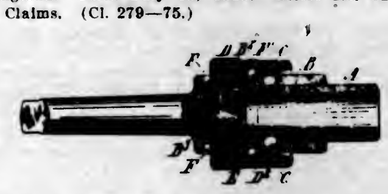
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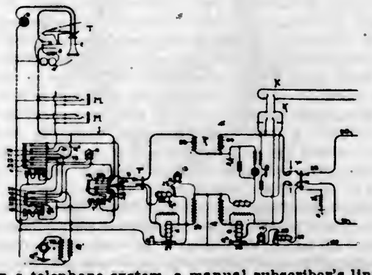
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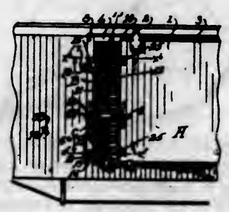
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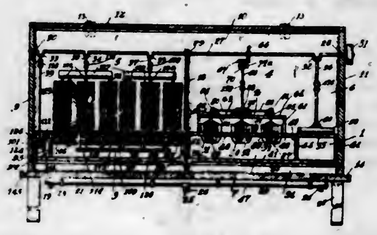
4. In a telephone system, a manual subscriber's line and a trunk connected in circuit, means for separating the two, and means responsive when the connection is broken for applying a signal to the line until cut off by the subscriber, and automatic means responsive to the cutting off by the subscriber to remove the signal from the subscriber's control.

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5. The combination with a box car having a slidable door and stop for the door of a ventilating member mounted to swing into or out of position between the door and stop and means for maintaining the ventilating member either in the latter position or against the side of the car.

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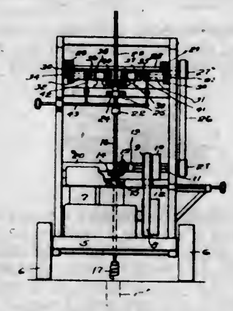
1,353,303. STANDING VALVE. THOMAS M. ADAMS, Houston, Tex. Filed July 7, 1917. Serial No. 179,140. 1 Claim. (Cl. 103—66.)

In a device of the character described, the combination with a pipe, of a collar threaded on the upper end thereof, having an internal annular shoulder, a nipple therein having an outwardly threaded rib which is screwed into the nipple and fits against the said shoulder, forming a water tight joint, a polygonal extension carried by said nipple and provided to receive a wrench, a valve seat carried by the upper end of the nipple, a valve co-acting with said seat, a valve cage protecting the valve and whose upper end has a tapped hole, a pipe threaded into the upper end of the collar and surrounding the cage, and a perforated disk-like protector fitting within said last



mentioned pipe, and having a threaded nipple which is adapted to be screwed into said hole.

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A device of the character described comprising a supporting frame, a vertical shaft, an auger carried by the shaft, a threaded extension of said shaft, a gear wheel threaded upon said threaded extension, a gear wheel splined upon the shaft and held against vertical movement, a horizontal shaft, a gear wheel carried by the horizontal shaft and meshing with the gear wheel that is splined upon the vertical shaft, a second horiozntal shaft, means for driving the last named horizontal shaft from first named horizontal shaft and means for driving the first named horizontal shaft from the motor, bevel gear wheels meshing with the gear wheel that is threaded upon the extension of the vertical shaft, clutch elements carried thereby, shiftable clutch sleeves co-acting with said clutch elements and gear wheels carried by said sleeves and meshing with gear wheels upon the second named horizontal shaft.

1,353,305. HEAT-INSULATED VESSEL AND CASING THEREFOR. GEORGE P. ALTENBERG, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed Jan. 31, 1919. Serial No. 274,305. 5 Claims. (Cl. 65—66.)

1. In a heat-insulated vessel, the combination of an inner vessel and a casing therefor, said inner vessel comprising a mouth, said casing comprising a downwardly inwardly sloping closed pouring wall provided with an inwardly extending closed lip, a compressible cushion between said mouth of said inner vessel and said casing provided with a compressible lip and said mouth of said

inner vessel, and means whereby to pinch said compressible lip between said first-named lip and said mouth of said inner vessel, the inner edege of said first-named lip ex-



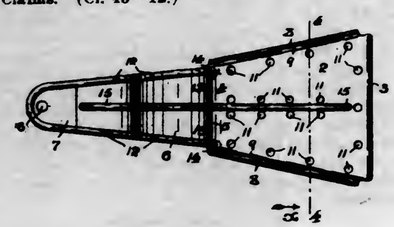
tending inwardly beyond the inner edge of said compressible lip, and said first-named lip spaced from said mouth of said inner vessel to form a slight inner groove between said first-named lip and said mouth.

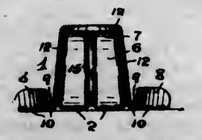
1,353,306. WINDOW FOR AUTOMOBILE-CURTAINS. GEORGE I. BAIR, Detroit, Mich. Filed Oct. 6, 1919. Serial No. 328,805. 1 Claim. (Cl. 296—145.)



An automobile window comprising a frame having transverse openings and a seat for a transparent plate, fabric attached to said frame, casings inclosing said frame, said casings being provided with sockets extending into the frame openings, and screws and nuts in the sockets of said casings and the openings of said frame to retain said casings on said frame.

1,353,307. SINK SCOOP OR SHOVEL. SAMUEL BERGER, Newark, N. J. Filed Dec. 11, 1919. Serial No. 344,090. 6 Claims. (Cl. 45—12.)





3. A scoop or shovel of the character specified, comprising a main body having longitudinally extending and upwardly projecting marginal side-flanges, a handle connected with and extending from said body, said body being further provided in its upper surface with drainage-channels contiguous to said side-flanges said channels having rearwardly extending discharge-ends.

1,353,308. MANUFACTURE OF WELT-SHOES. GEORGE H. BLACK, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 28, 1918. Serial No. 268,638. 3 Claims. (Cl. 12—142.)



1. That improvement in the art of making welt shoes which consists in bending a welt strip edgewise around the toe of the shoe in the operation of attaching the welt and trimming the inseam to prepare the shoe for the reception of the outsole; preparing the outsole to present with the welt a substantially uniform thickness of edge around the forepart of the shoe by removing from the flesh side of the toe portion of the outsole sufficient stock to compensate for the thickening of the welt which occurred in bending it around the toe; and applying the sole with the reduced portion thereof in proper relation to the thickened portion of the welt to produce an edge which is of substantially the same thickness at the toe that it is at the sides of the shoe.

1,353,309. CONCRETE POLE. EDMUND B. BLINN, Pasadena, Calif., assignor of one-third to Henry Barkschat, Los Angeles, Calif. Filed Oct. 27, 1919. Serial No. 333,546. 3 Claims. (Cl. 72—82.)

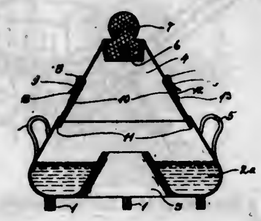


1. A concrete pole having a plurality of integral laterally projecting flanges formed thereon, and a plurality of ribs extending longitudinally thereof between said flanges, for the purpose described.

1,353,310. INSECT-TRAP. GOTTLIEB BONNET, Lincoln Valley, N. D. Filed Apr. 17, 1920. Serial No. 374,548. 1 Claim. (Cl. 43—122.)

A device of the class described comprising a lower body portion substantially annular in form, a central entrance thereinto from the underside thereof, a chamber provided in said body for holding liquid therein, an upper body portion adapted to rest upon said lower body portion so as

to inclose a single chamber, an opening in the top of said second body portion, a transparent stopper adapted to fit into said opening, and means for releasably holding said upper body portion upon said lower body portion comprising latches pivotally mounted on the outside of said



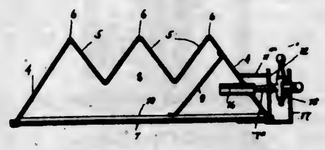
upper body portion, springs normally urging said latches outward, slots in the inside walls of said lower body portion, members rigid to said handles on the inside of said single chamber, pins near the extremities of said members, said pins adapted to engage said slots.

1,353,311. OPHTHALMIC MOUNTING. WILLIAM H. BOUTELLE, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed July 29, 1919. Serial No. 314,077. 5 Claims. (Cl. 88—50.)



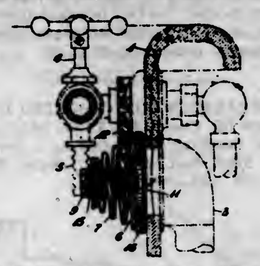
1. In a device of the character described, the combination with a post having an elongated head, of a locking washer having an elongated slot to receive the head, and adapted to be secured in position by relative rotation of the post and washer, and means for resiliently securing the washer in desired relatively rotated position.

1,353,312. HEATER. CHARLES F. BOWLUS, Dallas, Tex. Filed Dec. 2, 1919. Serial No. 341,938. 2 Claims. (Cl. 158—99.)



1. A heater for bath tubs and the like preferably oblong in shape and adapted to be placed underneath a bath tub and having its sides slanted obliquely inward and its ends vertical, the top of the heater forming a plurality of upwardly extending V-shaped protuberances with perforations and constituting burners for the heater, a panel within the heater attached to the front wall of the heater with a space between each end of the panel and the ends of the heater, said panel supported upon strips connected to the bottom of the heater and forming a space between the bottom of the panel and the bottom of the heater for the circulation of gas.

1,353,313. ATTACHMENT FOR BATHTUBS. CHARLES HERMANN WAECHTER, New York, N. Y. Filed Mar. 3, 1920. Serial No. 362,900. 6 Claims. (Cl. 4—24.)



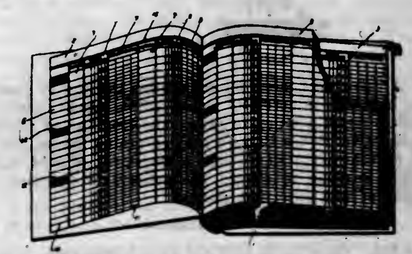
1. In a device for permitting the raising of the water level in a bathtub above the overflow discharge opening thereof, which comprises a substantially cup-shaped member for covering said opening, a washer associated therewith for rendering said covering substantially watertight, a tube extending upward from said member for permitting flow of water into said discharge pipe when the level thereof reaches the top of said tube, a member for engaging the water inlet pipe of the tub, said member having a semi-cylindrical surface substantially conforming to the surface of said pipe, a coiled spring having its end attached to said above-mentioned members, and arranged to press the same into their respective positions, and flanges on the said members whereby the said spring may be compressed and the said device placed into and out of operative position.

1,353,314. PORTABLE STOVE. FRANK CHAPMAN, Providence, R. I. Filed Aug. 25, 1919. Serial No. 319,672. 1 Claim. (Cl. 158—96.)



A portable stove comprising a body having a filler of absorbent material, such body having an annular shoulder near its upper edge, a cover having a flange embracing the body near its upper edge, the edge of the flange engaging the said annular shoulder, the said cover having an aperture, a wick comprising an absorbent material and an upper and lower layer of wire gauze, the said wick projecting through the opening in the cover and being secured to the under side of the said cover.

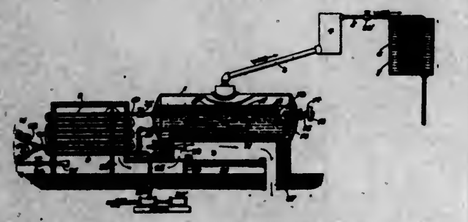
1,353,315. RECORD-BOOK. ERNEST H. CLARK, Birmingham, Ala. Filed Nov. 19, 1918. Serial No. 263,218. 5 Claims. (Cl. 283—38.)



1. An improved record book comprising 100 groups of four entry pages, each page being subdivided by vertical and horizontal lines into entry spaces, each entry space of a group of pages being headed by an indexing numeral having two like terminal digits, the entry spaces of the first three pages and part of the fourth page of each

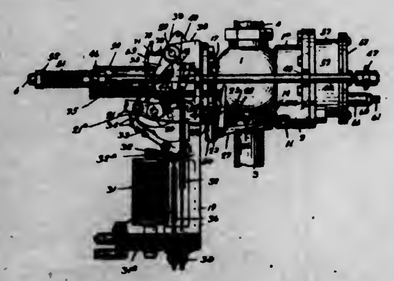
group of pages being divided into like sub-groups which are respectively distinguished by a different initial index digit, which initial digit progresses by groups in numerical order from zero to nine, the two terminal digits characterising each of the 100 groups of pages progressing by groups in numerical order from 00 to 99.

1,353,316. APPARATUS FOR CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, Tulsa, Okla., a Corporation of Maryland. Filed Sept. 27, 1917. Serial No. 193,457. 2 Claims. (Cl. 196—25.)



1. In an apparatus for cracking petroleum hydrocarbons, two cracking elements comprising a pipe and a relatively large still, conductors permitting the oil to circulate back and forth from one of said cracking elements to the other, a pump whereby the oil is circulated through said conductors, a vapor line leading from one of said cracking elements, a pressure regulating valve for regulating the pressure in the last mentioned cracking element, and a pressure regulating valve arranged in the course of the circulating liquid to regulate the pressure in the other cracking element.

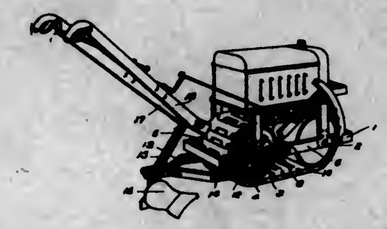
1,353,317. ELECTROMECHANICAL VALVE MECHANISM FOR TIMING AND CONTROLLING BLASTS ON FIRE-ALARM WHISTLES AND THE LIKE. FREDERICK W. COLE, Newton Highlands, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, Newton Upper Falls, Mass., a Corporation of New York. Filed May 28, 1917. Serial No. 171,375. 20 Claims. (Cl. 137—139.)



1. A valve mechanism for controlling the flow of elastic fluid, including a normally closed valve, means normally biased to closed position to govern the opening and closing of said valve, means to open said governing means, and a time element actuated through a movement of said valve to open position to govern the subsequent duration of opening of said governing means.

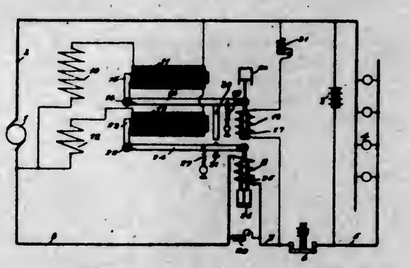
1,353,318. TRACTION DEVICE FOR VEHICLES. JOHN A. COWAN, Kansas City, Mo. Original application filed Mar. 29, 1918, Serial No. 225,158. Divided and this application filed Mar. 14, 1919. Serial No. 282,653. 6 Claims. (Cl. 97—30.)

5. In a vehicle, a frame, wheels supporting said frame, an elbow lever pivoted to the rear of the frame and having a horizontal arm exerting downward pressure upon the frame at a point a substantial distance in front of the



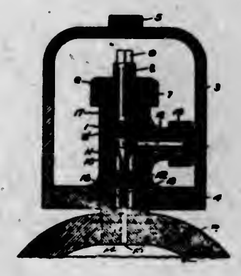
wheels and a depending arm for engagement by a ground working tool.

1,353,319. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Nov. 1, 1916. Serial No. 128,827. 33 Claims. (Cl. 171—229.)



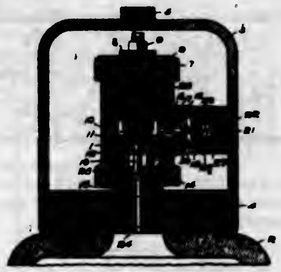
1. The combination with a generator provided with a plurality of field exciting means, of automatic means for regulating the generator by separately and also collectively affecting a plurality of exciting means.

1,353,320. CONTAINING APPARATUS AND VALVE SYSTEM THEREFOR. CHARLES F. CROMMETT, Chelsea, Mass. Filed May 26, 1916. Serial No. 100,121. 8 Claims. (Cl. 221—73.5.)



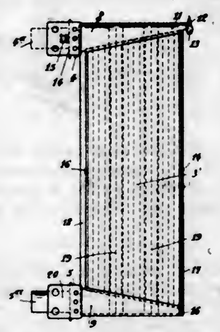
1. In combination with a container for use in shipping gas under pressure, valve means providing a main closure, means for manually opening and closing said main closure, a supplemental closure normally opened by pressure of the gas when said main closure is open and gas is being discharged under pressure, and yielding means normally exerting closing pressure on said supplemental closure and automatically effective to close the supplemental closure when the pressure of the gaseous contents of the container has been reduced to a predetermined pressure, whereby air is excluded from entrance into said container.

1,353,321. VALVE. CHARLES F. CROMMETT, Chelsea, Mass. Filed July 25, 1916. Serial No. 111,283. 2 Claims. (Cl. 277—65.)



2. In a gas or fluid-controlling valve, main valve means and auxiliary valve means comprising an auxiliary valve and a seat therefor, said valve and seat being resiliently pressed together, one being movable in one direction by pressure in one direction and the other being movable in the opposite direction by pressure in another direction, and limiting means opposing movement of both said valve and seat beyond predetermined points, whereby either pressure-actuated movement of said valve or pressure-actuated movement of said seat may effect separation of valve and seat.

1,353,322. CONSTRUCTION OF RADIATORS FOR COOLING THE CIRCULATING WATER IN EXPLOSION-MOTORS. CHARLES CUAU, Paris, France. Filed Mar. 12, 1918. Serial No. 221,907. 2 Claims. (Cl. 257—125.)



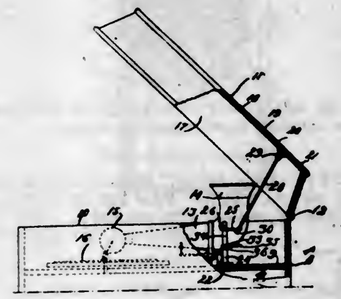
1. A radiator element comprising radiating walls of extremely thin sheet metal, a corrugated metal sheet fastened thereto, preferably by solder, forming an internal stay-sheet, and borders holding the said walls and sheet together.

1,353,323. PAPER-BOARD. FRANK B. DAVIDSON, Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y., a Corporation of New York. Filed Aug. 9, 1919. Serial No. 316,303. 6 Claims. (Cl. 154—50.)



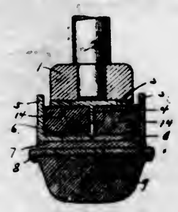
1. A built-up sheet of paper-board, comprising a plurality of plies of paper material, at least two of which are secured together by an interposed layer of asphaltum or its equivalent, and another of said plies of paper material being secured to the adjacent ply by an interposed film of silicate of soda.

1,353,324. TALKING-MACHINE. DONATO DI CARLO, Philadelphia, Pa. Filed Mar. 6, 1920. Serial No. 363,888. 4 Claims. (Cl. 274—2.)



2. A talking machine including a cabinet having a movably connected lid provided with a hole; means within the cabinet for directing the reproduced sounds outwardly through said hole; a door for closing said hole; a member connected to said door; and means for abutment with said latter member during the closing movement of said lid whereby the door will be prevented from following the movement of said lid and will thereby effect the opening of said hole; substantially as described.

1,353,325. CUSHIONED WHEEL. ALFRED S. DUFFIES, Markesan, Wis., and FRANCIS MEAD, Chicago, Ill. Filed Jan. 18, 1917. Serial No. 143,047. 2 Claims. (Cl. 152—36.)

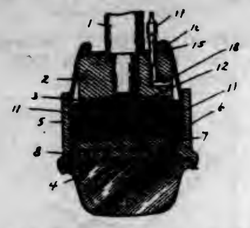


2. In a wheel, a tread member including an annular band; an inner rim spaced from the annular band and having a web extending toward said band, cushioning means between the inner rim and said annular band and laterally engaging the said web; and a pair of angle rings having lateral webs respectively in continuous lateral engagement with the cushioning means, and having peripheral webs disposed between the peripheral faces of the cushions and the said annular band, in contact with each, the said band being shrunk upon the said peripheral webs of the angle rings, whereby the cushions coöperate with the band on the peripheral webs of the angle rings to retain the latter in position.

1,353,326. CUSHIONED WHEEL-RIM. ALFRED S. DUFFIES, Markesan, Wis. Filed Feb. 5, 1917. Serial No. 146,598. 2 Claims. (Cl. 152—36.)

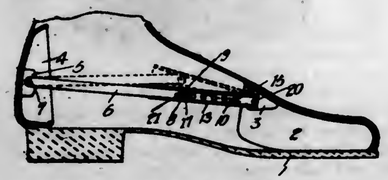
1. In a wheel, an inner and an outer rim, a cushion therebetween, and a single-piece fabric member including

side portions disposed at opposite sides of the cushion, and a central portion clamped between the cushion and one of



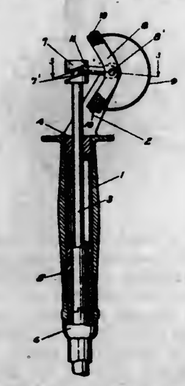
the rims, the said member coöperating with the other rim to form an inflatable housing for the cushion.

1,353,327. SHOE-TREE. JOHN DANIEL DUNFIELD, Petrolia, Ontario, Canada. Filed July 28, 1919. Serial No. 313,856. 2 Claims. (Cl. 12—128.)



1. In a shoe tree, the combination with a toe piece and heel piece, of a bar member pivotally connected to the toe piece having inturned edges providing spaced track, surfaces within the member, a second bar member pivotally connected to the heel piece sliding within said first member and provided with projections supported on said track surfaces, and means for pivotally connecting the bar members together.

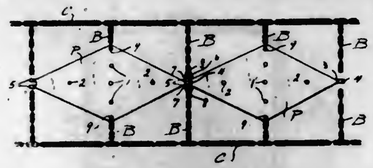
1,353,328. PITTING-KNIFE. SAMUEL J. DUNKLEY, Kalamazoo, Mich., assignor to Dunkley Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Jan. 28, 1919. Serial No. 273,592. 2 Claims. (Cl. 146—6.)



2. In a peach pitter, the combination of a suitable handle, with a bifurcated arm on the end, a rocker pivoted between the said arms, a curved blade carried by said rocker, and means for oscillating the said rocker, coacting as specified.

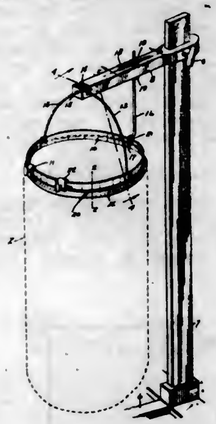
1,353,329. ANTISKIDDING DEVICE. JOHN C. DUPLER, Marietta, Pa. Filed Mar. 29, 1920. Serial No. 369,632. 3 Claims. (Cl. 152—16.)

1. A device of the character described comprising, in combination, a series of plates, adjacent end portions of the plates being provided with interfitting knuckles, a connecting member disposed through the interfitting knuckles whereby adjacent plates are hingedly connected,



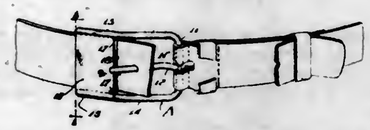
side chains, and branch chains operatively engaged with the side chains and with the opposite end portions of the connecting members.

1,353,330. BAG-HOLDER. ERICK ERICKSON, Minneapolis, Minn. Filed Mar. 25, 1920. Serial No. 368,637. 2 Claims. (Cl. 83—26.)



1. In a bag holder, the combination with a supporting arm, of a horizontally disposed circumferentially adjustable and contractible rim having a flange on its lower edge, and a binding cord adapted to be secured around the rim.

1,353,331. BUCKLE. THEODORE C. ERPENBECK, Chicago, Ill. Filed Sept. 15, 1919. Serial No. 323,702. 3 Claims. (Cl. 24—163.)

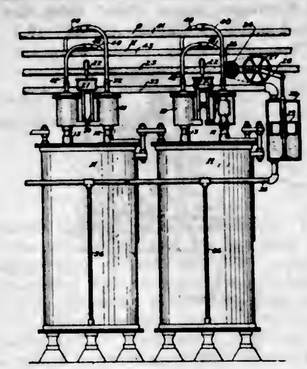


1. In a buckle, the combination with a frame-part having a closed end and an open end, said closed end being formed with an external annular groove and a tongue in operative relation with said groove, of a separate cross member having a surface for decoration and in fixed relation to said open end.

1,353,332. FILLING APPARATUS FOR ELECTROLYTIC CELLS. JOSEPH H. FISCHER, Milwaukee, Wis. Filed Dec. 8, 1919. Serial No. 343,419. 5 Claims. (Cl. 204—5.)

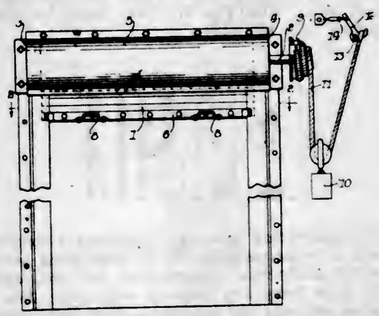
2. A filling apparatus for electrolytic cells comprising an equalizing tank; a float in said tank; a liquid supply pipe; a valve in said liquid supply pipe; means by which said float opens said valve whenever the supply of liquid in said equalizing tank falls below a predetermined value;

a plurality of electrolytic cells each in open communication with said equalizing tank; a purger for each of said cells through which the gases generated must pass; means



for passing liquid from said liquid supply pipe to each of said purgers; and overflow means by which any excess of liquid in any of said purgers is delivered to said equalizing tank.

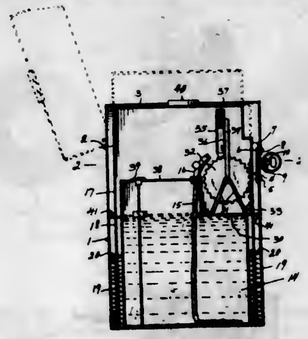
1,353,333. COUNTERBALANCED FIRE-SHUTTER. WAINWRIGHT B. GERVAIS, Chicago, Ill., assignor to Variety Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 20, 1917. Serial No. 187,130. 5 Claims. (Cl. 189—58.)



1. In combination, a rolling shutter normally unbalanced by the unrolled portion of the shutter, a shaft operatively secured to said shutter, a spiral pulley connected to said shaft, a cable or the like secured to the spiral pulley and wrapped thereupon, a weight slidably resting in a bight of said cable and fusible means anchoring the free end of the cable.

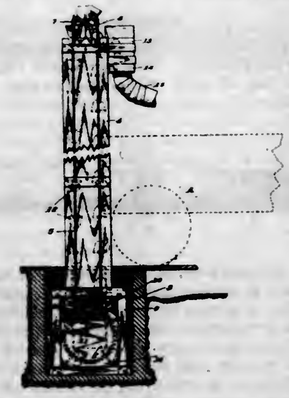
1,353,334. AUTOMATIC LIGHTER. TELESFORO C. GESLANI, Olongapo, Zamb, Philippine Islands. Filed Dec. 29, 1919. Serial No. 348,015. 5 Claims. (Cl. 67—7.1.)

5. In an automatic lighter, the combination with a casing having a hinged cover and retaining means therefor, of a coal-oil container mounted in the casing and spaced therefrom, of a sparking device mounted on the container and lighting the wick and including a sparking stone in close position to the wick, a spring tensioned hood or shield guided between the container and the casing and having coöperative connections with the sparking device, whereby as the cover is released, the sparking device is actuated for lighting the wick, said sparking device comprising a rotatable toothed wheel, supporting brackets to hold the wheel on the container, a holder for the sparking stone, spring means in the holder for maintaining the end of the stone in contact with the teeth of the wheel, and toothed connections between the wheel and the hood or shield, whereby as the shield moves upwardly under the action of its spring, the wheel is rotated, one side of the



hood or shield having an opening through which a member to be lighted may be inserted.

1,353,335. GRAIN-ELEVATOR. BENJAMIN E. GETZ, Morton, Ill., assignor to A. F. Meyer Mfg. Co., Morton, Ill., a Corporation of Illinois. Filed Oct. 18, 1918. Serial No. 258,726. 5 Claims. (Cl. 193—6.)

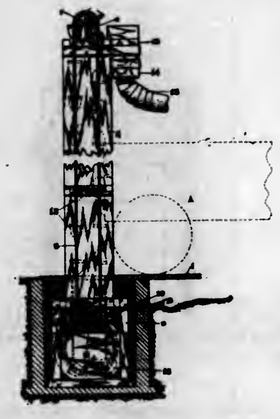


1. An elevator for the inside of a crib and adapted to be placed on one side of the drive-way through the crib, comprising a single leg, a boot for said leg including a receiving receptacle, elevating chains adapted to travel up one side of said leg and down the other side thereof, buckets attached to said chains and suspended therebetween, the lower runs of the chains being spread within the boot so as to extend laterally outwardly beyond each of the respective opposite sides of the flights of the chains in the leg and to provide an enlarged open space, and a chute leading into the boot and adapted to discharge material thereinto between the spread portions of said chains.

1,353,336. ELEVATOR. BENJAMIN E. GETZ, Morton, Ill., assignor to A. F. Meyer Mfg. Co., Morton, Ill., a Corporation of Illinois. Original application filed Oct. 18, 1918, Serial No. 258,726. Divided and this application filed Feb. 13, 1919. Serial No. 276,702. 2 Claims. (Cl. 193—6.)

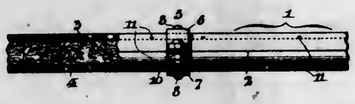
1. A crib elevator including a leg, a boot for the leg, an elevating chain in the leg having buckets thereon, a floating sprocket wheel in the boot and around which the chain passes, said sprocket wheel being formed and arranged to spread the chain laterally and outwardly beyond each of the respective opposite sides of the flights of the chain to provide an enlarged open space, idler sprockets above the floating sprocket and arranged adjacent thereto to

restrict upward movement of the idler sprocket, and means to discharge material into the boot between said



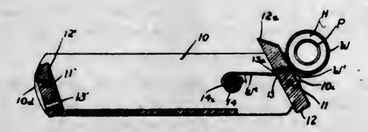
spread portions of the chain and in the said enlarged open space provided thereby.

1,353,337. PROCESS OF CURLING HAIR OR SIMILAR FIBROUS MATERIAL. THOMAS GORDON, Philadelphia, Pa. Filed Aug. 28, 1919. Serial No. 320,430. 5 Claims. (Cl. 13—5.)



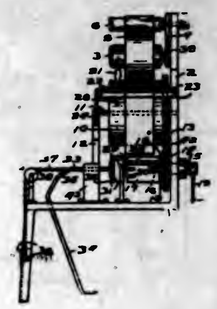
3. The hereinbefore described improvement in the art of curling hair or similar material, which consists in applying pressure to a mass of the material, confined within a receptacle of relatively small cross sectional area in comparison with the length of staple, and of substantially curved contour, and therby impressing a curved or kinked form upon a preponderant percentage of such material; and then heating the mass while still thus compressed and confined in said receptacle whereby the impressed curvature is set, substantially as set forth.

1,353,338. HOSE-CLAMPING TOOL. FRED WILLIS GUNN, Dedham, Mass. Filed Mar. 16, 1920. Serial No. 366,270. 5 Claims. (Cl. 81—9.3.)



1. A hose clamping tool, comprising a holder having a member pivoted transversely at one end thereof, said member having a wire receiving hole therethrough at one side of said pivot and transversely thereof for receiving the wire ends therethrough, and a pin mounted in said holder in substantial parallelism with the pivotal axis of said member spaced from the operative end thereof and adapted to engage the extremities of the wire for drawing the same taut.

1,353,339. BATTERY-BOX-FORMING MACHINE. STEWART E. HALL, Akron, Ohio, assignor of one-third to E. R. Sloan, Maumee, Ohio, and one-third to Earl Howard Workinger, Akron, Ohio. Filed Nov. 6, 1919. Serial No. 336,202. 3 Claims. (Cl. 18—19.)



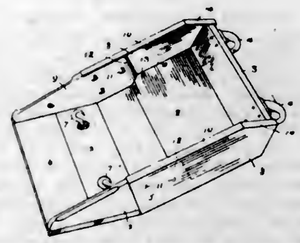
1. In a battery box forming machine, a spool for supporting a sheet rubber composition, a drum, means for permitting the sheet rubber composition located on the spool to ride on the drum, means for skiving and cutting portions of the sheet rubber composition, means for guiding the movements of the skiving means across the face of the drum, a mold for receiving the sheet rubber composition from the drum, and means for rotating the mold and the drum.

1,353,340. UPHOLSTERING. JACOB HEITZENREDER, Jr., Detroit, Mich. Filed Feb. 27, 1920. Serial No. 361,839. 3 Claims. (Cl. 155—184.)



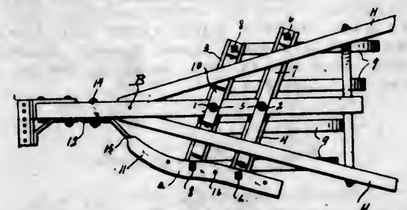
1. An upholstering covering, comprising a foundation cloth and a facing material, one of these being provided with stitch guide lines manufactured into the material and the other being also provided with guide lines, the said facing material and foundation cloth being matched together along these guide lines and sewed together to form plaits or straight pipes.

1,353,341. GRAIN-SCRAPER. EDWARD A. T. HOLDEN, Duluth, Minn. Filed Dec. 30, 1919. Serial No. 348,279. 3 Claims. (Cl. 37—40.)



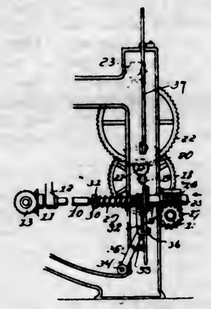
1. The combination with a scraper of the character described made principally of wood, of holding side pieces made of flanged metal and wooden side nose pieces fitted into the lower ends of the metal holding pieces and to which latter the bottom nose boards are attached.

1,353,342. CULTIVATOR. WILLIAM H. HOLLMANN, Loretto, Tenn. Filed Apr. 19, 1920. Serial No. 375,068. 1 Claim. (Cl. 97—10.)



A cultivator comprising, in combination, a beam, a pair of cross members carried by the beam at spaced points longitudinally thereof, said cross members being pivotally connected with the beam, ground working members embodying forwardly extending shanks having the forward ends thereof secured to the foremost of said cross members, and the rearmost of said cross members embodying spaced members adapted to receive the shanks of said ground working members therebetween, spacing or clamping bolts extending through said last named spaced members intermediate said shanks and spaced therefrom, whereby said shanks are shiftable transversely within said last named cross members, an arm connecting the adjacent ends of the cross members and secured to the beam at a point in advance thereof, the outer margin of the arm extending beyond the outer ends of the cross members whereby said arm constitutes a fender.

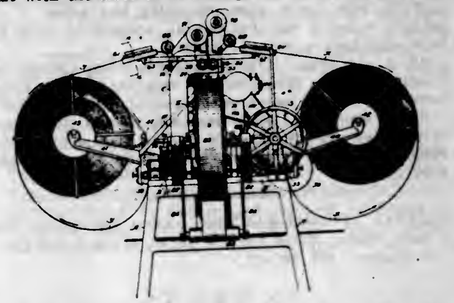
1,353,343. KNOCK-OFF MECHANISM FOR LOOMS. SAMUEL CLAUDE JOHNSTON, Lancaster, S. C. Filed Mar. 8, 1920. Serial No. 363,948. 6 Claims. (Cl. 139—52.)



3. In a loom, a take-up roller, mechanism for driving the take-up roller including a worm gear wheel operatively connected to the take-up roller, and a driving shaft, a worm slidingly mounted upon the driving shaft and engaging said worm gear wheel, a spring normally holding said worm from longitudinal movement on the driving shaft and holding it in engagement with the worm gear wheel, a knock-off arm having a yoke, a shipper lever passing through the yoke, and means operatively connecting the worm to the knock-off arm to cause the operation of the knock-off arm upon a sliding movement of the worm due to undue resistance of the worm wheel to rotation.

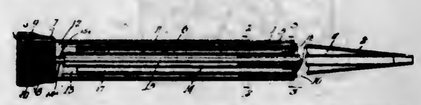
1,353,344. MACHINE FOR MAKING PARTITIONS FOR BOXES. FRANK M. JOSLIN, Amsterdam, N. Y., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y., a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,487. 10 Claims. (Cl. 93—37.)

1. In a machine of the class described, means for feeding strips of material, means for punching slots in said strips, one of said means including mechanism whereby certain of said slots are punched at a greater distance apart than the others, means for preparing and feeding portions of material edgewise into interlocking engagement with the slots of said strips and crosswise thereof,



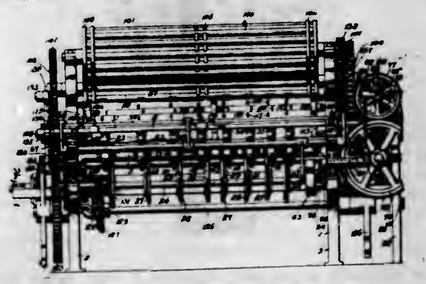
and means for cutting off said strips intermediate the slots having the greater spaces therebetween.

1,353,345. MECHANICAL PENCIL. MICHAEL M. KAUFMANN and JOHN P. LYNN, Chicago, Ill., assignors to Philip P. Thomas, trustee, Minneapolis, Minn. Filed Feb. 11, 1920. Serial No. 358,005. 3 Claims. (Cl. 120—18.)



1. A mechanical pencil comprising a barrel open at one end and terminating at its other end in a tapered tip adapted for resisting the passage of leads from said barrel, a lead tube mounted concentrically within said barrel and extending from a point within the tapered tip portion thereof to the open end of the same, a cap member for said barrel comprising a sleeve adapted to telescopically receive the open end of the barrel, an externally threaded tube rigid and concentric with said sleeve and extending from the outer end portion to substantially the mouth thereof, the cylindrical portion of the barrel being internally threaded to engage said externally threaded tube of said cap member, a lead projecting plunger rigid with and mounted axially of the cap member and projecting from the inner end thereof and adapted to enter the inner end portion of the lead tube for effecting projection of leads from the barrel as said cap member is rotated relatively to said barrel in one direction.

1,353,346. WIRE-FABRIC MACHINE. ALVA L. KITSELMAN, Muncie, Ind. Filed Sept. 17, 1906. Serial No. 334,947. 88 Claims. (Cl. 140—12.)



1. A wire fabric loom, including means for connecting a stay to a series of line wires beginning with a wire located at an intermediate point of the series and ending with the outer wires thereof.

13. A wire fabric loom, including two series of twisters arranged to twist the same stay around a series of wires,

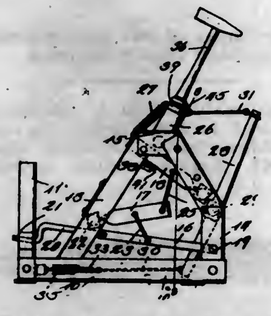
corresponding twisters of said series operating successively and in pairs.

36. A wire fabric loom, including two series of oppositely rotating stay twisters all aranged to twist the same stay upon a series of wires.

43. A wire fabric loom, including a rotary twister and a loop depressing cam associated with the twister and arranged to urge the loop into engagement with the latter.

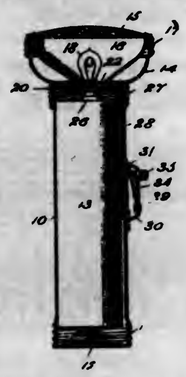
67. A wire fabric loom, including a laterally reciprocatory stay guide, means for feeding a stay wire longitudinally to said guide, and a stay wire cutter movable with the guide.

1,353,347. POWER-HAMMER. ADAM KLINGBACK, Emmett, Idaho. Filed Apr. 25, 1917. Serial No. 164,471. 8 Claims. (Cl. 78—33.)



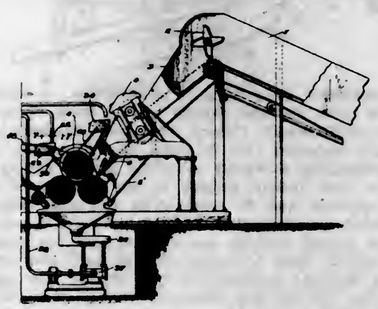
1. In a power hammer, the combination of a main frame, a hammer support pivoted therein, a hammer carried thereby, a pedal also pivoted in said main frame, a plurality of rocking frames supported by said main frame and connected to each other and to the pedal and support to transmit a power stroke to the hammer, means connected to said support for returning the same to normal position after the conclusion of said power stroke, and a normally contracted spring between said support and one of said rocking frames yielding at the conclusion of one stroke and then contracting to increase the efficiency of the next.

1,353,348. PORTABLE HAND-LAMP. HARRY M. KORETZKY, Brooklyn, N. Y. Filed June 18, 1919. Serial No. 304,990. 1 Claim. (Cl. 240—8.5.)



In apparatus of the class described, a lamp socket having a central screw-threaded socket neck and an external upturned flange, a reflector support comprising a flat portion and a cylindrical portion surrounding but out of contact with the socket neck, a flat washer under said reflector-support, a second washer over the flat portion of the reflector-support and adapted to center the neck thereof within the flange around the lamp socket, and a reflector attached to the neck of the reflector-support.

1,353,349. DIRECT MACERATING AND JUICE-STRAINING SYSTEM. ALFRED KRAFFT, Honolulu, Hawaii. Filed Apr. 15, 1919. Serial No. 290,348. 7 Claims. (Cl. 100—47.)



1. In a system of the class described, the combination with a train of mills, of means for conducting the cush-cush laden juice from succeeding mills to the intake and discharge sides of a preceding mill, means for conducting the juice from the last mentioned mill, and a juice strainer interpolated in said means and arranged to discharge the solid matter into the cane leaving one of the mills.

7. In a system of the class described, the combination with a train of mills, of conveyers extending between the same, a strainer arranged above one of the conveyers, means for conveying the cush-cush laden juice from one of the succeeding mills to the first mill of the train, and means for forcing the juice from the first mill to the strainer, said last mentioned means including a pump which consists of a casing having continuously open inlet and outlet openings, and a rotary pumping flange.

1,353,350. HAIRPIN. LOUIS HART KNICKEL, Monroe, La. Filed Apr. 8, 1920. Serial No. 372,213. 1 Claim. (Cl. 132—22.)



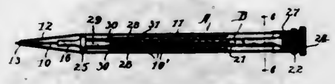
A hair pin composed of two strands lapped together near one end of each strand and twisted together intermediate the ends of the lap to form at each side of the twist a relatively long and a relatively short arm, said pin being bent at the twist to cause the arms to lie alongside each other in the same plane, with a relatively short arm adjacent to each relatively long arm, said arms being corrugated or roughened, and each relatively short arm having at its free end a portion bent in the opposite direction from the relatively long arm.

1,353,351. WAGON-BODY. ALEXANDER F. KUHNEN, Dixon, Ill., assignor to American Wagon Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 11, 1918. Serial No. 261,986. 2 Claims. (Cl. 296—13.)



1. In a wagon bed or body, the combination of a stationary bed portion and a side portion hinged or pivoted thereto, and a bracket connecting the hinged or pivoted portions to the stationary portion, said bracket comprising in combination a pair of channel bars placed back to back with their adjacent end portions overlapping each other, and with their other end portions connected respectively to the stationary and the hinged or pivoted portions of the wagon, and means for locking the two channel sections against relative sliding movement comprising a lever pivoted to the end portion of one channel and having its sides overlying the flanges of the other channel, said sides being segmentally mutilated, and there being suitable recesses in the flanges of the channel, whereby when the lever registers with the said recesses it may be fully turned to engage its side portions with the recesses in locking fashion, and whereby when the lever is turned into another position, its mutilated portions register with the recesses and permit sliding movement between the parts, substantially as described.

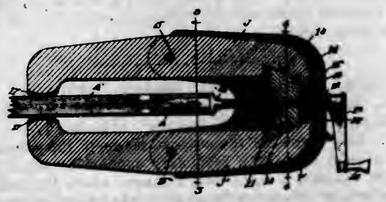
1,353,352. PENCIL. FRANK J. KRISTOFEK and HOWARD L. FISCHER, St. Paul, Minn., assignors to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Nov. 11, 1919. Serial No. 337,160. 17 Claims. (Cl. 120—18.)



11. A pencil having a barrel, a lead propelling means and means adapted to hold one end of a series of extra marking leads collectively to said propelling means with the free ends of the extra leads extending toward the rear end of said propelling means to cause the collectively held ends of the leads to enter said barrel first when said propelling means is inserted in said barrel.

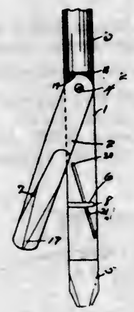
13. A pencil, comprising a barrel, a lead propelling means within the barrel and spaced therefrom to form a lead receiving magazine between the lead propelling means and the barrel and a closure on said lead propelling means for said magazine removably secured to said barrel to remove said propelling means in its operative entirety and open said magazine.

1,353,353. WORK-HOLDING CLAMP. HARRY INGRAHAM LAVERS, West Somerville, Mass. Filed Nov. 26, 1919. Serial No. 340,856. 1 Claim. (Cl. 144—297.)



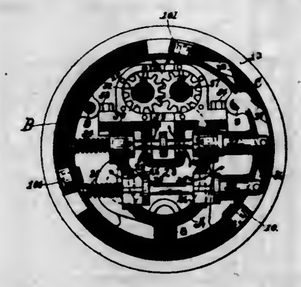
A clamp comprising a pair of U-shaped plates, a pair of jaws fulcrumed between said plates, one of the ends of said jaws having their confronting faces recessed to provide oppositely inclined surfaces, a block interposed between said ends and having sliding engagement with said surfaces, a nut carried by said block, a screw threaded shaft extending through said block and threadedly engaging said nut, a foot carried by said shaft, and a crank for actuating the shaft.

1,353,354. UNDERREAMER FOR REAMING OUT PRODUCING-SANDS. ACEY L. LAMBETH, Mineral Wells, Tex., assignor, by direct and mesne assignments, of one-half to Cullen B. Cooper and one-half to Albert L. Houston, Dallas, Tex. Filed Nov. 22, 1918. Serial No. 263,669. 7 Claims. (Cl. 255—76.)



1. An extension drill bit having a guide member rigid with a drill rod and an underreaming member pivotally mounted on said guide member, means for making said underreaming member rigid with said guide member after the underreaming member has been set at the required angle, and means for projecting water between the meeting faces.

1,353,355. CHANGE-SPEED TRANSMISSION. ABRAHAM B. LANDIS, Enfield, Pa. Filed Dec. 6, 1915. Serial No. 65,417. 33 Claims. (Cl. 60—53.)

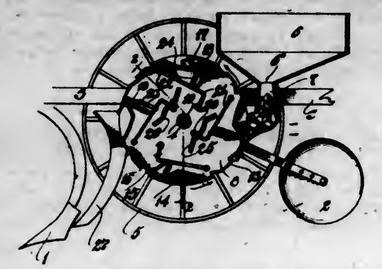


1. A change speed transmission comprising a driving element and a driven element, said driving element comprising a revoluble casing, said casing containing a fluid pump, said pump connected with said driven element, one or more motors within said casing and valves between said pump and motors by which the speed of said driven element is controlled, substantially as specified.

1,353,356. POTATO-PLANTER. FRANK WILLIAM LEE, Spokane, Wash. Filed Nov. 15, 1919. Serial No. 338,262. 5 Claims. (Cl. 221—127.)

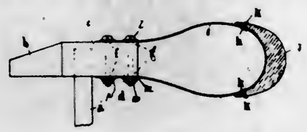
1. The combination with the driving axle and drum fixed thereon and seed gripping devices carried by said

drum, of a non-rotatable closure plate for the drum having means for actuating said devices for selecting and



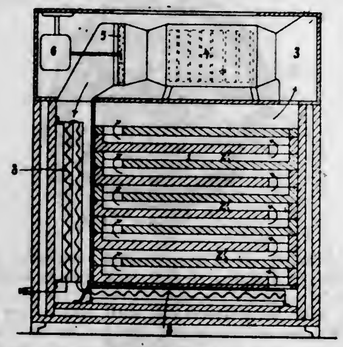
releasing a seed, a hopper with a seed supply, and the planter tube for receiving the released seed.

1,353,357. HAMMER FOR PIANOS AND SIMILAR INSTRUMENTS. ATHOL ERNEST NEVILLE LAWRANCE, Rustenburg, Transvaal, South Africa. Filed Oct. 16, 1919. Serial No. 331,239. 3 Claims. (Cl. 84—103.)



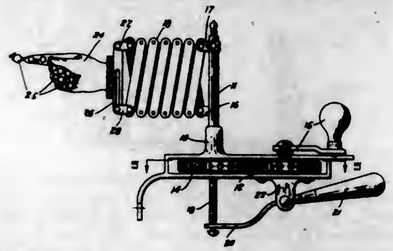
1. A hammer for pianos comprising a shank, a block connected to the upper end thereof, a spring formed from a single strip of metal bent into a loop shape and having its end portions rigidly secured to one end portion of the block so that the side portions will be free to yield from the intermediate portion to the point of attachment of the end portions, and a cushion detachably secured to the outer surface of the curved intermediate portion of the spring.

1,353,358. DRYING OR COOLING APPARATUS. PETER STEENFELDT-LINDHOLM, Christiania, Norway. Filed Mar. 11, 1919. Serial No. 281,993. 2 Claims. (Cl. 34—39.)



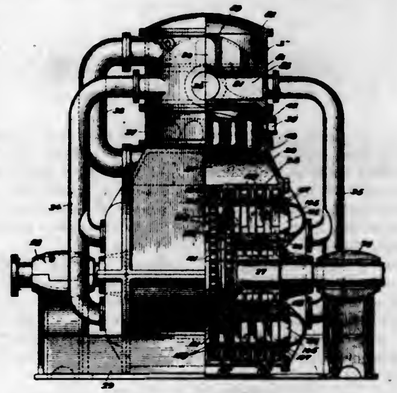
1. In a drying apparatus or cupboard, the combination with a storing room provided with shelves for the drying goods, said shelves being arranged so as to form between them a zig-zag channel, of a drying room arranged above said storing room and containing hygroscopic material, and a room containing devices for bringing the air to the desired temperature, located on one side and below the storing room.

1,353,359. SIGNAL DEVICE FOR VEHICLES. PIOTR NIEWIAROWSKI, Omaha, Nebr. Filed Sept. 25, 1919. Serial No. 326,165. 1 Claim. (Cl. 116—40.)



In a signal device for vehicles, the combination with a hollow frame adapted to be engaged with the front part of the vehicle, of a hollow, longitudinally slotted, vertical tube rotatable in said frame, a lug fixed on said tube, a second lug in said tube extending through the mentioned slot, a spring disposed between said lugs adapted to maintain them in a separated position, lazy-tong elements secured respectively to said lugs at one end, a visible signal mounted on the opposite end of said lazy-tong elements, a gear fixed to said tube within said frame, a second gear in mesh therewith, a crank for manually rotating the last named gear, whereby said signal may be turned angularly, a handled lever fulcrumed below said frame, and operative connections between said lever and said sliding lug whereby it may be raised and said signal extended.

1,353,360. MARINE STEAM-TURBINE. ANDERS MATHIAS RODBERG, Tampa, Fla. Filed June 7, 1919. Serial No. 302,375. 18 Claims. (Cl. 253—47.)

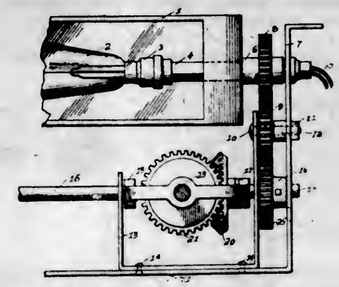


1. In a marine turbine, a stator, a rotor therein having a hub, peripheral blades and radial fins connecting the hub and blades, and means forming steam passages for successively feeding steam peripherally of the rotor to the said blades and through, and parallel to the axis of the rotor against said fins.

1,353,361. SIGNAL FOR MOTOR-VEHICLES. JESSE G. ROSEBOOM, Cincinnati, Ohio. Filed Nov. 25, 1919. Serial No. 340,498. 2 Claims. (Cl. 40—77.)

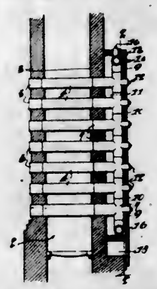
2. In a device for the purpose set forth the combination of a main support, a secondary support arranged in the main support, a signal box arranged above the secondary support, a journal arranged in the main support and box, a toothed wheel mounted on the journal, a journal arranged below the first-named journal, a toothed wheel

secured on the second journal and engaging the first toothed wheel, a shaft passing through the main support and secondary support, a toothed wheel arranged on the shaft directly below and engaging the second toothed



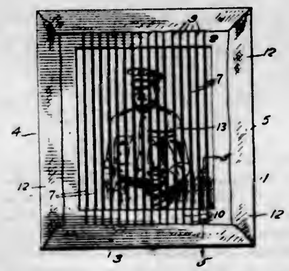
wheel and means secured on the shaft for operating the several wheels; said means comprising a yoke, a beveled gear arranged in the yoke and a bevel gear actuable by the first gear and mounted on the shaft and a handle mounted on the yoke.

1,353,362. ZINC-REDUCTION FURNACE. JAMES D. SHIPTON, Vancouver, British Columbia, Canada. Filed June 10, 1919. Serial No. 303,056. 7 Claims. (Cl. 266—19.)



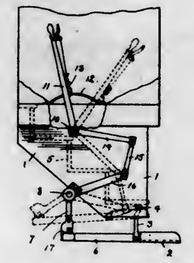
1. A zinc reduction furnace, comprising the combination with a series of retort tubes extending across the furnace and a corresponding series of condensers, said tubes having closable provision at one end through which they may be charged, and at the other end connected to one of the condensers, said condensers being connected together to form a common condensing surface with provision for withdrawing the metal condensed.

1,353,363. FRAME FOR A PLURALITY OF PICTURES. HENRY SIMON, Filer, Idaho. Filed May 12, 1920. Serial No. 380,903. 4 Claims. (Cl. 40—137.)



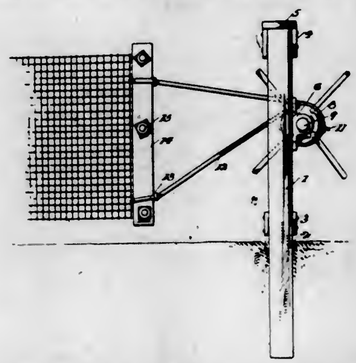
1. In a device for framing a plurality of pictures or photographs, a frame including opposed pieces provided with slits, the slits of one piece being in alinement with an opposite piece of the frame, a pair of photographs or pictures cut in equal number of strips, the consecutive strips of one picture beginning from the left being pasted to the backs of the consecutive strips of the other picture beginning from the right thereof, tapes carries by the pasted together strips and engaging said slits and being secured to the upper and lower edges of the opposite pieces of the frame.

1,353,364. AUXILIARY CAR-STEP. PETER SWANSON, Soudan, Minn. Filed Feb. 2, 1920. Serial No. 355,882. 2 Claims. (Cl. 105—448.)



1. The combination with the platform steps of a railway car having an auxiliary step pivotally suspended upon depending straps below the lowermost stationary step, of the pivotal connection of the lowermost end of the straps to the auxiliary step being inwardly of the pivotal connection of the uppermost end of the straps to the stationary steps when the auxiliary step is in extended position substantially as and for the purpose described.

1,353,365. WIRE-STRETCHER. BARLEY WEBB and WILLIAM A. GARDNER, Pinetops, N. C. Filed Oct. 2, 1919. Serial No. 327,862. 1 Claim. (Cl. 254—186.)

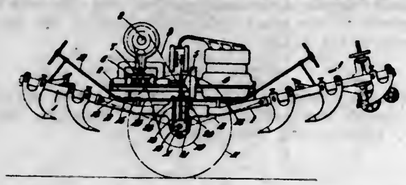


A wire stretcher comprising a frame having standards the lower portions of which are unobstructed to permit of entrance into the ground, cross beams connecting the ssid standards between their ends, a cap beam connecting the upper ends of the standards and providing a driving head, and stretching means mounted upon and between the standards between the cross beams and the cap beam.

1,353,366. BALANCE AGRICULTURAL IMPLEMENT. DANIEL YELD WHEATLEY, Aldington, Hythe, England. Filed Sept. 14, 1918. Serial No. 254,095. 4 Claims. (Cl. 180—29.)

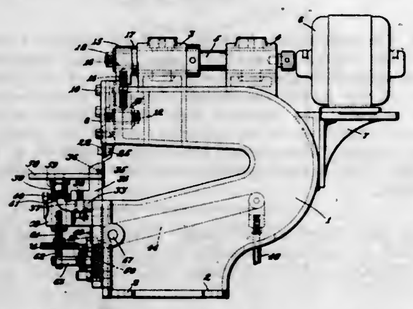
1. A self-propelled agricultural implement comprising, in combination, a supplemental frame; an engine frame movable relatively to the supplemental frame in a sub-

stantially horizontal plane; two traveling wheels floatingly supporting the engine frame; guiding means for holding the engine frame against floating movement about a horizontal axis while permitting movement in a horizontal plane comprising transverse guide bars on the en-



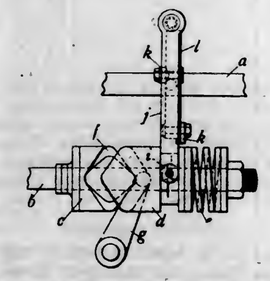
gine frame, rollers for engaging said guide bars and plates anchored to the supplemental frame for carrying said rollers; and means for moving the engine frame horizontally relatively to the supplemental frame for the purpose of steering.

1,353,367. SHEET-METAL SHEARS. LELAND B. WHIPPLE, Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Feb. 21, 1919. Serial No. 278,430. 21 Claims. (Cl. 164—47.)



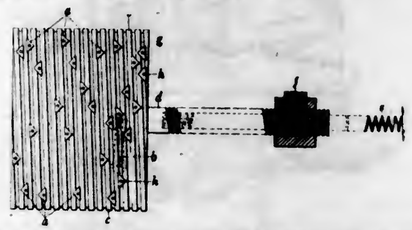
1. In a machine for cutting sheet metal, the combination of opposed cutting members having relatively inclined cutting edges, each having a straight and a curved portion, means for relatively reciprocating the cutting members so that the curved portions thereof pass each other at each reciprocation to cut by the curved portions of the cutting edges and means for changing the relation between the cutting members whereby the relative reciprocation causes only the straight portions thereof to pass each other to cut by the said straight portions only.

1,353,368. CONTROLLING MECHANISM. EDWARD WILLIAMS, Birmingham, England. Filed Oct. 24, 1919. Serial No. 333,098. 2 Claims. (Cl. 74—14.)



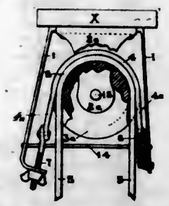
1. In a mechanical relay or controlling mechanism, the combination comprising an operator, a clutch driving shaft, a two-part friction clutch one part of which is connected to the driving shaft, a cam on the other clutch part for actuating the operator, a stop in conjunction with the second named clutch part, and a lever for arresting and releasing the stop, substantially as described.

1,353,369. CONTROL MECHANISM. EDWARD WILLIAMS, Birmingham, England. Filed Jan. 28, 1920. Serial No. 354,756. 1 Claim. (Cl. 74—1.)



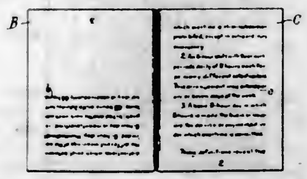
In controlling mechanisms, the combination comprising a rotatable and axially movable drum, striking pieces disposed spirally around the drum, a screw threaded driving shaft for the drum, stationary means detachably engaging the threaded shaft for producing the axial movement in one direction during rotation of the drum, means actuated by the striking pieces, and means for imparting a reverse axial movement to the drum and shaft after disengagement of the latter by the said engaging means, substantially as described.

1,353,370. FRICTION BAND-BRAKE. FRANK E. WILLIAMS, Alhambra, Calif. Filed Mar. 6, 1917. Serial No. 152,835. 1 Claim. (Cl. 74—13.)



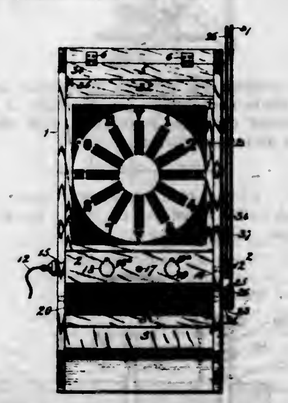
In a constant friction band brake a combination of a revolving drum and brake pulley attached thereto, all properly journaled; a band brake holder partially encircling said brake pulley; a flexible brake band bearing on said pulley and permanently attached to said holder at one end by means of an interposed coil spring, said coil spring being placed on the side of said pulley corresponding to the side of said drum where suspended load would tend to unwind the same, the other end of said brake band being attached to said holder by means of an interposed threaded shaft which passes through a perforation in said holder and provided with a winged nut at the extremity thereof to operate thereon; and a flat traction belt riding said pulley between said flexible brake band and said pulley, all substantially as set forth.

1,353,371. PAGE ARRANGEMENT FOR BOOKS. DION I. WINSLOW, Boston, Mass. Filed Mar. 10, 1919. Serial No. 281,590. 1 Claim. (Cl. 283—63.)



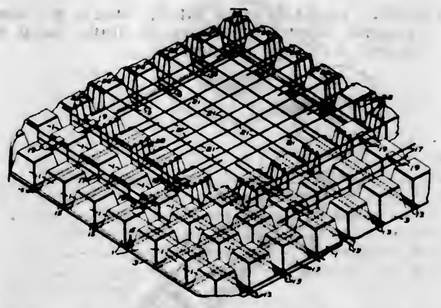
A page arrangement for a printed book, comprising a plurality of leaves bound together at the sides and having printed matter reading continuously on the front page of each leaf and the said pages being numbered successively from the front to the back of the book whereby the page being read is always next to the right hand of the reader holding the book, the said leaves having on the backs thereof printed matter in inverted position reading continuously from the back to the front of the book whereby when the book is inverted the page being read is always at the right hand of the reader as aforesaid.

1,353,372. OPTICAL CABINET. SERENO W. WOODHULL, Newport, R. I. Filed June 9, 1919. Serial No. 302,835. 8 Claims. (Cl. 40—130.)



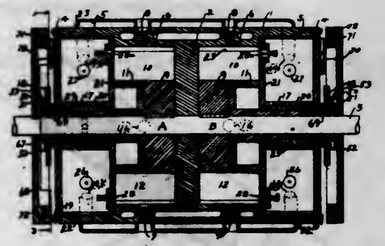
8. In a device of the character described, a cabinet having a light; testing devices for the eyes in front of said light and above the same rearwardly thereof; means for directing the light toward either one of said testing devices as may be desired; and an adjustable mirror for cooperating with the light when the same is directed upwardly and rearwardly toward said upper testing device to evenly distribute the light over the same, said mirror being above said testing device.

1,353,373. CONCRETE CONSTRUCTION. EDWIN F. ALLBRIGHT, Atlantic, Mass., assignor to Adams-Pond Company, Inc., Boston, Mass., a Corporation of Massachusetts. Filed July 30, 1919. Serial No. 314,347. 6 Claims. (Cl. 72—15.)



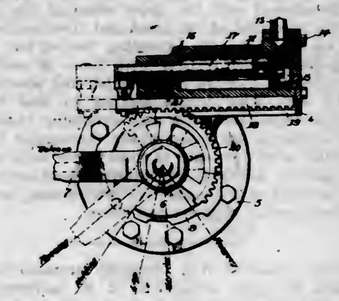
3. In concrete construction, the combination of columns, a concrete slab having solid panels resting on said columns, and bays between said solid panels having at their under sides domes or recesses distributed therein to the margins of the solid panels with transversely extending ribs between said domes or recesses, crossing series of reinforcing members located in the lower portions of the ribs in the bays, series of short rods located in the upper surface portions of the margins surrounding said bays between the solid panels and offset upwardly from the reinforcing members in said bays, and reinforcing members located in the upper surface portions of said panels.

1,353,374. ROTARY ENGINE. PIETRO ARRIGHI, San Francisco, Calif. Filed Oct. 16, 1919. Serial No. 331,101. 8 Claims. (Cl. 128—11.)



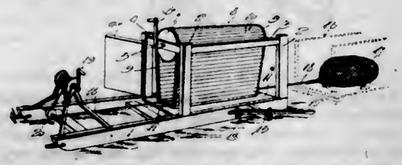
1. A rotary engine including a casing having circular, axially alined and independent primary and secondary chambers formed therein, a shaft axially and revolubly mounted in said chambers, devices operatively mounted on said shaft for compressing and exploding fuel gas in said secondary chamber and for expelling burnt gases therefrom, and devices for inducting fuel gas into said primary chamber and compressing the same therein, and for permitting the passage of said compressed gas from said primary chamber to said secondary chamber at predetermined periods.

1,353,375. ENGINEER'S BRAKE-VALVE. JOHN W. BINGLEY, Watertown, N. Y. Filed Nov. 22, 1916. Serial No. 132,873. 6 Claims. (Cl. 188—18.)



1. The combination of an engineer's brake valve; a pressure cylinder; means for conducting and releasing pressure to and from said cylinder; a free piston in said cylinder; and a rod connected with said valve and capable of being moved by said piston in one direction only.

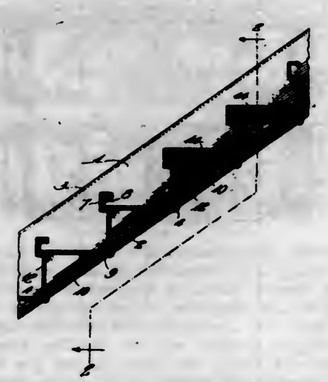
1,353,376. DEVICE FOR CATCHING AND HOLDING HOGS. WILLIAM L. BARLOW, Clear Lake, Iowa. Filed Mar. 25, 1920. Serial No. 368,578. 7 Claims. (Cl. 119—102.)



1. A device of the class described comprising a supporting frame, a rotary depending apron thereon, a retractable platform arranged beneath and normally engaging and supporting the lower portion of the apron, and

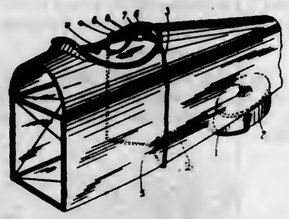
means to move the platform away from engagement with the apron to permit the latter to assume effective position.

1,353,377. STAIR STRUCTURE. NATHANIEL BOIS, San Francisco, Calif. Filed Apr. 12, 1920. Serial No. 373,214. 2 Claims. (Cl. 72—96.)



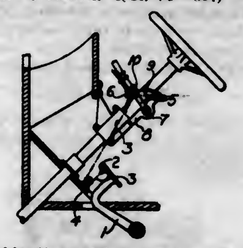
1. In a stair structure, a pair of stringers each provided with an inwardly extending apertured flange adjacent to its lower edge, a plurality of stair steps each formed of a single piece of sheet metal and comprising a horisontal tread-carrying portion and a vertical riser portion, the front edges of the upper tread-carrying portions being interlocked with the upper edges of the riser portions, the junctions of the tread and riser portions being seated on said inwardly extending flanges and provided with apertures that register with those of said flanges, bolts extending through these registering apertures and provided with nuts, treads secured on said tread-supporting portions, and bolts each extending through both of said stringers and substantially throughout the width of the stair structure, each of these latter bolts being disposed directly under the respective tread-carrying portions rearward of the respective interlocking portions of the tread-carrying portions and risers.

1,353,378. PARACHUTE. EVERARD RICHARD CALTHROP, London, England, assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Filed July 15, 1919. Serial No. 311,101. 2 Claims. (Cl. 244—21.)



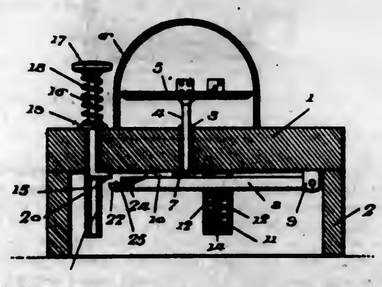
1. A device for connecting an aviator with a parachute comprising a bifurcated sling adapted for attachment to a parachute, means for holding the bifurcated ends of said sling in operative relation with the end of the rope attached to the load, and means whereby upon application of the load said load is automatically connected with one of the bifurcated ends of said sling while the other end thereof is freed.

1,353,379. MOTOR-VEHICLE. GERALDINE MARGUERITE CAULFEILD and HARRY FROWD ST. GEORGE CAULFEILD, Lee-on-the-Solent, England. Filed Aug. 28, 1917. Serial No. 188,686. 6 Claims. (Cl. 74—39.)



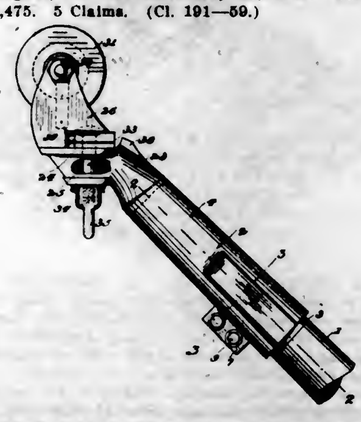
5. The combination with an automobile including foot actuated brake and clutch control pedals, of hand control means having operative connection with the pedals for imparting movement thereto.

1,353,380. DICE-GAME DEVICE. JOHN L. CHURCH, Oakland, Calif. Filed Oct. 20, 1919. Serial No. 331,760. 4 Claims. (Cl. 46—56.)



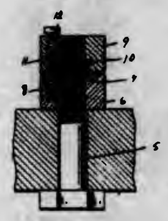
1. A dice game device comprising a vertically movable member, a dice tray movable vertically with said member, spring means for raising said member, and a plunger for depressing said member, said plunger and member having coöperating means including a finger carried by one of them and a spring-returned pivoted trip carried by the other for the contact of the finger in depressing said member and permitting the finger to pass when the plunger is raised.

1,353,381. TROLLEY-POLE HEAD. SAMUEL S. COOPER, Landgraff, W. Va. Filed May 16, 1919. Serial No. 297,475. 5 Claims. (Cl. 191—59.)



1. A trolley pole head comprising a pole section, a harp section slidably fitted on the end of the pole section and having a longitudinal notch in its lower end, a connection for an electrical conductor carried by the pole section and engaging in said notch to prevent turning of the harp section with relation to the pole section, and means yieldably resisting sliding movement of the harp section.

1,353,382. NUT-LOCK. JOSEPH J. CRISSINGER, Greensburg, Pa. Filed Sept. 24, 1919. Serial No. 325,930. 1 Claim. (Cl. 151—19.)



A nut lock of the character described comprising a bolt, a nut operable thereon and including a split cone having a threaded opening which extends into the nut, a locking device having a conical recess, said locking device being arranged to engage the split cone without binding said cone on the bolt, and a locking screw connecting the nut and the locking device for simultaneous rotation on the bolt, the head of the locking screw being screwed into engagement with the locking device to simultaneously cant the locking device on the bolt and force a portion of the split cone into binding engagement with the bolt, the end of the locking screw being disposed in spaced relation to the end wall of the threaded opening in the nut.

1,353,383. VULCANIZING-PAD. JULIUS N. DIESSE, San Francisco, Calif., assignor of one-half to Albert L. Silverstein, San Francisco, Calif. Filed Mar. 30, 1920. Serial No. 370,288. 7 Claims. (Cl. 18—45.)



1. A vulcanising pad comprising a flexible casing formed of a plurality of fabric layers embedded in a lining of vulcanized rubber, said casing being closed at one end thereof and provided with a flattened pressure receiving surface on the upper portion thereof; a granular filling within said casing; and means for retaining said filling within the casing.

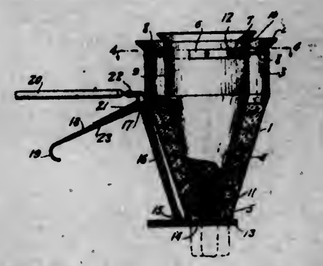
1,353,384. MANUFACTURE OF COMPOSITIONS, PREPARATIONS, OR ARTICLES HAVING A BASIS OF CELLULOSE ACETATE. HENRY DREYFUS, London, England. Filed Apr. 15, 1919. Serial No. 290,316. 3 Claims. (Cl. 106—40.)

1. A composition of matter containing cellulose acetate, and containing a high-boiling mixture of isomeric xylene low-carbonalkyl sulfonamids which mixture is liquid at ordinary temperature.

1,353,385. MANUFACTURE OF COMPOSITIONS, PREPARATIONS, OR ARTICLES HAVING A BASIS OF CELLULOSE ACETATE. HENRY DREYFUS, London, England. Filed Apr. 15, 1919. Serial No. 290,317. 2 Claims. (Cl. 106—40.)

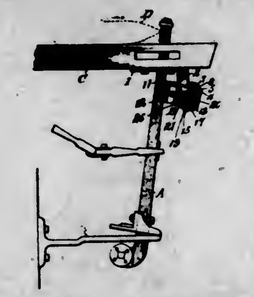
1. A composition of matter containing cellulose acetate and, containing a high-boiling mixture comprising ortho- and para- toluene low-carbon-alkyl sulfonamids, which mixture is liquid at ordinary temperature.

1,353,386. HOUSEHOLD ARTICLE. EMIL ERB, New York, N. Y. Filed June 4, 1920. Serial No. 386,502. 6 Claims. (Cl. 107—52.)



3. In a dough-filler or similar device the combination of a generally cone shaped outer receptacle and a similarly shaped but higher inner adjustable receptacle having outlets, an annular clamping strip having lipped ends attached at the inner surface of the upper portion of said outer receptacle, means adapted to engage said lipped ends thus facilitating said inner vessel being held in fixed position when vertically adjusted, a cut-off valve adapted to normally close said outlets, and means for operating said cut-off valve.

1,353,387. CHECK FOR PICKER-STICKS FOR LOOMS. SAYERS D. EURANKS, Hillsboro, N. C. Filed Aug. 29, 1919. Serial No. 320,599. 8 Claims. (Cl. 139—22.)



1. A check for picker sticks for looms comprising a flexible strap, supports for both ends of the strap holding the intermediate portion of the strap tight with both ends of the strap movable in the same direction about a common axis, and elastic means common to both ends of the strap and arranged to yield to the impact of the shuttle against the picker stick and through the latter to the check.

1,353,388. DOOR-LATCH AND BURGLAR-ALARM. ALFRED A. FISK, Pomona, Calif., assignor of one-half to A. B. Davis, Pomona, Calif. Filed Sept. 23, 1918. Serial No. 255,305. 1 Claim. (Cl. 116—86.)

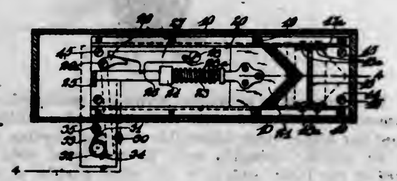
The combination with an elongated metal plate having a bowed end portion for insertion between a door and a jamb, and a jamb engaging spur extending from said end portion, of a tongue pivotally mounted upon the other end portion of the plate and having its free end folded and

constituting an angular stop movable to position in the path of the door, an alarm mounted on the tongue, a plunger slidably mounted in and guided by the stop for actuating the alarm, one end of the plunger being mov-



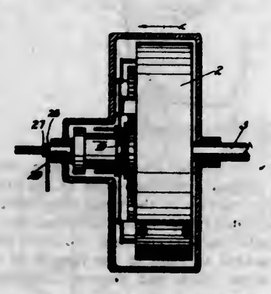
able to position in contact with the door to sound the alarm when the door is shifted against the stop, and co-operating means upon the plate and tongue for holding said tongue with the stop in door fastening position.

1,353,389. FIRE-PREVENTION DEVICE FOR MOTION-PICTURE APPARATUS. HALL GOODWIN, Chicago, Ill. Filed Dec. 30, 1919. Serial No. 348,352. 3 Claims. (Cl. 88—17.)



1. In a motion picture apparatus, a film severing knife, a detent for holding the knife retracted, means for operating the knife when released, a rock shaft, means operated by the rock-shaft for disengaging the detent, a spring for operating the rock shaft, and means for locking the rock-shaft against actuation, said locking means comprising a shaft having a crank and an abutment, an arm extending from the rock shaft and engageable by the abutment, a fusible element connected to the crank for locking its shaft, and means for turning said shaft to disengage the abutment from the arm when the fusible element is ruptured.

1,353,390. TRANSMISSION MECHANISM. CHARLES A. GROTZ, Chicago, Ill. Filed June 25, 1919. Serial No. 306,757. 6 Claims. (Cl. 74—34.)



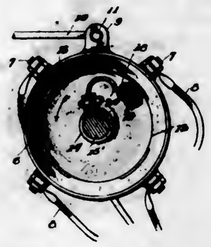
1. A transmission mechanism, comprising a casing containing a fluid medium, a fly wheel disposed within the casing and having a plurality of cylinders adapted to communicate with the fluid-containing portion of the casing, a piston in each cylinder, a driving shaft secured to said fly wheel, a gear carried by the fly wheel and adapted to rotate about the central axis of the fly wheel, relatively to the latter, a driven shaft secured to said gear, a plurality of auxiliary gears arranged externally of and meshing with said first named gear, and means for transmitting the movement of said auxiliary gears to said pistons.

1,353,391. PUMP. HARRY MELVIN HALL, Willcox, Ariz. Filed Jan. 9, 1920. Serial No. 350,266. 8 Claims. (Cl. 103—80.)



1. A pump comprising a barrel and a hollow plunger movable therein, said barrel having at one end a stuffing box through which the plunger slides, the stuffing box having a packing nut connected with the end of the barrel, said barrel having check valves at its lower end and the hollow plunger having check valves at its lower end, a ball connected with the top of the plunger, the ball and the packing nut having interengaging means for permitting the ball to turn said nut and plunger to unthread it from a suction pipe.

1,353,392. COMMUTATOR. THOMAS P. HARBOUR and BURLEIGH B. BRINNON, Bellefontaine, Ohio. Filed Sept. 19, 1919. Serial No. 324,762. 3 Claims. (Cl. 200—26.)

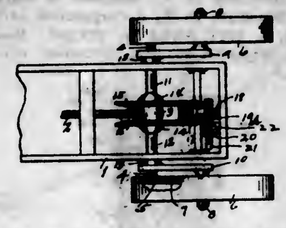


3. A commutator including a shaft, a split collar arranged upon the shaft and having its ends provided with spaced apertured ears, a plurality of leaf springs having their rear end portions apertured and arranged between said apertured ears, a fastening device extending through said apertured ears and said leaf springs for connecting the springs and for securing the collar rigidly to the shaft, and a contact element carried by the outer portions of said leaf springs and having means for connecting the same.

1,353,393. MOTOR-VEHICLE. MATHIAS HAUPT, Spokane, Wash. Filed Aug. 25, 1919. Serial No. 319,614. 4 Claims. (Cl. 180—41.)

1. The combination with the vehicle frame, the engine shaft, and sectional countershaft with driving pinions thereon, of a pair of oppositely movable hollow crank

shafts on the countershaft and means for moving said crank shafts, a pair of drive wheels on the crank shafts,



and a gearing on each wheel engaged by said driving pinions.

1,353,394. WIRE WHEEL. HENRY A. HOUSE, Jr., Springfield, Mass., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Mar. 22, 1918. Serial No. 224,070. 4 Claims. (Cl. 21—69.)



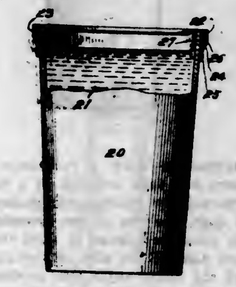
1. A wheel having in combination, a hub, a rim, spokes connecting the hub with the rim, said rim having round pockets peripherally spaced therein, each of said pockets having an angularly depressioned seat and a hole in said seat, and nipples in threaded engagement with said spokes, having heads with their under sides adapted to co-fit with the said angular depressions, to prevent the accidental unturning of the nipples on their respective spokes.

1,353,395. METHOD OF FORMING WIRE-SPOKE NIPPLES. HENRY A. HOUSE, Jr., Springfield, Mass., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Sept. 4, 1918. Serial No. 252,671. 2 Claims. (Cl. 29—148.)



1. The method of forming wire spoke nipples, which consists of taking a blank nipple as formed by the usual devices, of concentrically boring a hole therethrough, of a diameter, practically equal to that of the outside diameter of the thread of wire spoke, which it is intended to engage, then compressing circumferentially, a part of the shank of the nipple, until part of the bore of the metal inside of the nipple, has been reduced to a diameter of practically that of the root of the thread of the said spoke and of subsequently threading this reduced section of the nipple, to fit the said spoke.

1,353,396. CLOSURE FOR JARS, BOTTLES, AND OTHER RECEPTACLES. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed July 5, 1917. Serial No. 178,595. 13 Claims. (Cl. 215—81.)



1. In combination with a receptacle, a closure therefor comprising a cap having a top-portion and a depending edge flange, and a gasket within said flange adapted to engage the side surface of the receptacle about the mouth thereof, said cap and receptacle having such relative proportions that when the cap is applied on the receptacle its top will seat against the lip thereof and the receptacle will crowd the gasket against said flange, said flange having downwardly converging portions and the gasket having at least one straight side which before application of the closure to the receptacle lies facing outward and a beveled lower edge, and the edge portions of the cap being adapted on application of said cap to contract about said gasket.

1,353,397. CLOSURE FOR JARS, BOTTLES, AND OTHER RECEPTACLES. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 24, 1918. Serial No. 230,386. 1 Claim. (Cl. 215—81.)



In a receptacle closure, the combination of a cup having a depending skirt portion formed with a seat for a gasket below the level of the mouth of the receptacle, and a gasket on said seat and extending to the top of the cap, said gasket having at its inner face a downwardly and outwardly extending beveled portion, the internal diameter of the gasket at its lower portion being greater than the external diameter of the receptacle to which the closure is to be applied, and the said internal diameter above such lower portion being less than the external diameter of said receptacle, said gasket normally prior to application of the cap standing at an angle to its seat in the depending skirt of the cap, and said receptacle at its mouth portion being adapted to pass through said gasket on the application of the cap carrying the gasket.

1,353,398. CLOSURE FOR TUMBLERS, JARS, BOTTLES, AND OTHER RECEPTACLES. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 10, 1916, Serial No. 114,091. Renewed Jan. 27, 1920. Serial No. 354,514. 9 Claims. (Cl. 215—82.)



1. The combination with a receptacle within which the air pressure has been reduced, of a hermetic closure maintained thereon by atmospheric pressure, comprising a cap seated upon the rim of the receptacle and having a downwardly extending flange or skirt the lower portion of which bears against the side of the receptacle, and a gasket around the upper outer side portion of the receptacle above the lower portion of the flange and extending to said rim between said side portion and said flange, the upper portion of the flange and the top of the cap being of yieldable material, said cap by reason of the atmospheric pressure thereon closely binding against said rim and binding said gasket against the receptacle at and below said rim.

1,353,399. CLOSURE FOR JARS, BOTTLES, AND OTHER RECEPTACLES. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed July 5, 1917, Serial No. 178,596. Renewed Jan. 27, 1920. Serial No. 354,517. 3 Claims. (Cl. 215—13.)



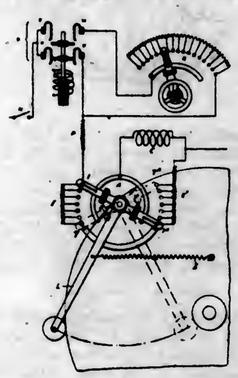
1. A cap closure adapted for repeated use and to be applied and removed by hand and comprising a barrel or skirt portion to pass downwardly upon the neck of a receptacle and having within its upper inner peripheral portion an annular side recess, a top and a gasket within said recess having flat sides and a downwardly and outwardly tapered lower edge standing normally in the path of the upper outer edges of the mouth of the receptacle, said top being of such proportions that when the closure is applied to the receptacle it will engage the top edge or rim thereof and confine the gasket to the surfaces of the receptacle exterior to said edge.

1,353,400. CLOSURE FOR JARS, BOTTLES, AND OTHER RECEPTACLES. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed July 5, 1917, Serial No. 178,597. Renewed Jan. 27, 1920. Serial No. 354,518. 4 Claims. (Cl. 215—13.)



1. A closure comprising an exterior barrel or skirt portion to pass downwardly over the neck of a receptacle, a top comprising a lateral portion extending annularly over the rim of the receptacle to said barrel portion and a depending central part adapted to pass downwardly into the mouth of the receptacle, and a sealing gasket closely encircling the side of said depending portion and having a downwardly and inwardly beveled lower edge.

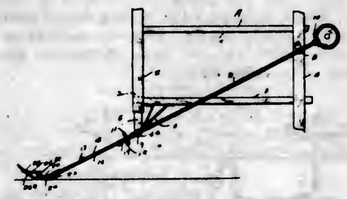
1,353,401. CONTROLLING MEANS FOR ELECTRO-MAGNECTIC FEED-REEL BRAKES. HENRY VINCENT JAMES, Radlett, England. Filed Aug. 13, 1918. Serial No. 249,606. 5 Claims. (Cl. 171—229.)



1. Means for the automatic regulation of a controlling electro-magnet or solenoid in varying degree comprising in combination variable ohmic resistance elements,—a controlling electro-magnet coil electrically connected in parallel with a part of same, and electric switch means by which the coil may be variably connected across various sections of the resistance elements, and means for operating the switch means to simultaneously vairy the ohmic values of the resistances to mainatin a constant ohmic value of the control combination formed by the ohmic resistance and controlling coil, whereby the same percentage variation of the electro-motive-force applied to the coil will occur within given limits of operation regardless of the value of the electro-motive-force applied to the complete combination.

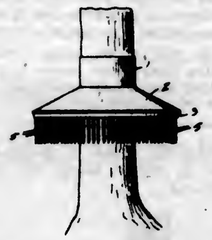
1,353,402. [WITHDRAWN.]

1,353,403. BEET-TOPPING MEANS. CHARLES L. LEONARD and ALLEN F. HOWARD, Ionia, Mich. Filed Dec. 17, 1918. Serial No. 267,198. 6 Claims. (Cl. 55—107.)



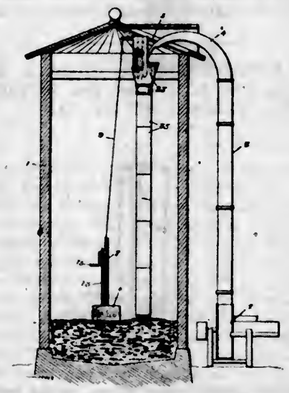
1. The combination with a beet harvesting machine including a supporting frame, of a supporting plate hingedly secured to said frame for rocking movement about horizontal axis and projecting downwardly and forwardly therefrom, a cutting head mounted on said plate at the lower arm thereof for reciprocation transversely thereof, and means for engaging the ground surface so as to support the lower end of said supporting frame above the ground, said means also constituting means for guiding the cutting head during reciprocation thereof.

1,353,404. TREE-PROTECTOR. PEARL A. LIBBY, Waldoboro, Me. Filed Mar. 25, 1920. Serial No. 368,592. 1 Claim. (Cl. 47—35.)



A protector comprising a section, means for applying the section to a tree, spaced flanges carried by the section and being downwardly inclined toward each other, a rod adapted to slip between the flanges and spaced pins carried by the rod.

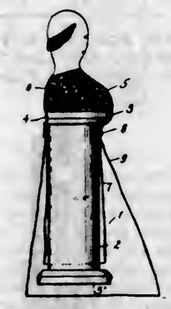
1,353,405. MACHINE FOR HANDLING ENSILAGE. GEORGE A. LONG, Mooresville, Ind. Filed Aug. 20, 1919. Serial No. 318,731. 8 Claims. (Cl. 100—57.)



4. In combination a tamper and means for operating said tamper and controlled by the feeding of cut ensilage to the silo, said operating means comprising a shaft having radial blades, a lever pivoted to the casing and connected to the tamper, a connection between the shaft and the lever for vibrating said lever, the connection between the tamper and the lever being flexible, and means at the tamper for winding up said connection or unwinding the same to raise and lower the tamper.

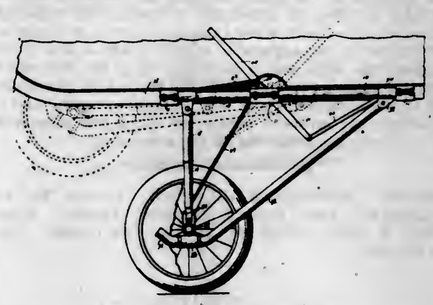
6. In combination a tamper, and means for operating said tamper and controlled by the feeding of cut ensilage to a silo.

1,353,406. DOLL. EDITH L. LOPEZ, New York, N. Y. Filed Apr. 2, 1920. Serial No. 370,640. 6 Claims. (Cl. 46—40)



1. A doll, comprising a spool having an upper flange, and a bust provided with a head, arms and shoulders, the bust being supported by the said spool flange; substantially as described.

1,353,407. FOLDABLE LANDING-GEAR FOR AEROPLANES. FRANK MCCARROLL, Dallas, Tex. Filed July 19, 1919. Serial No. 311,948. 13 Claims. (Cl. 244—2)

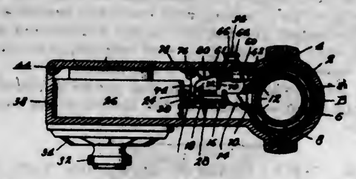


1. A foldable landing gear comprising; a pair of spaced longeron tubes attachable to and detachable from the longerons of an aeroplane fuselage, a landing gear strut pivoted on each longeron tube, an axle carried by the landing gear struts, and braces associated with each longeron tube and each landing gear strut.

1,353,408. AUTOMOBILE-STEERING-POST LOCK. LOYD S. MCCORMICK, Leavenworth, Kans. Filed Dec. 27, 1919. Serial No. 347,729. 3 Claims. (Cl. 70—90.)

1. In combination with the steering post and the steering column of an automobile, mechanism for locking said steering post from rotation, a case surrounding the steering column and inclosing the main portion of the lock mechanism, a door to said case to permit access thereto, a bolt to lock said door in closed position, spring means to

throw said bolt to inactive position, so that the door may be opened, and means controlled by the lock mechanism



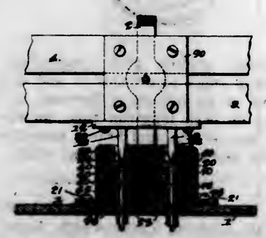
for moving said bolt to active position at the time the steering post is locked.

1,353,409. VALVE STRUCTURE FOR OIL-WELLS. JOHN PHILIP MCEVOY, Sour Lake, Tex. Filed Sept. 19, 1919. Serial No. 324,908. 1 Claim. (Cl. 251—127.)



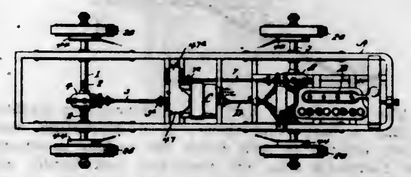
A valve structure of the character described, comprising a barrel provided at its upper end with a tapered valve seat, a cage secured to the upper end of the barrel and provided at its upper end with an internally screw-threaded portion, an adjustable tubular guide engaging within the internally screw-threaded portion, a clamping nut carried by the adjustable tubular guide, a disk valve engaging the valve seat, a stem secured to the disk valve and extending above and below the same with the upper end of the stem projecting into the tubular guide, and a transverse bar arranged within the barrel and apertured for receiving the lower end of the stem.

1,353,410. SUBMARINE-DETECTOR. GEORGE MILLER MARSHALL, Lake Francis, Manitoba, Canada. Filed Jan. 3, 1918. Serial No. 210,194. 13 Claims. (Cl. 175—265.)



1. In a sub-marine detector, a float, a hanger frame attached thereto, a pair of magnet members, means for fixedly holding them in parallel relation, other means for pivotally suspending the said magnet members on the hanger frame, a pair of terminals on the magnet members, one at each side of the pivotal axis thereof, electric circuit terminals attached to the hanger frame for being engaged by either of the terminals on the magnets as the latter are caused to swing on their axis under the magnetic influence of a passing sub-marine.

1,353,411. FOUR-WHEEL DRIVE FOR AUTOMOBILES AND SIMILAR VEHICLES. HERMAN A. MIESKE, Fall Creek, Wis. Filed Apr. 19, 1919. Serial No. 291,315. 2 Claims. (Cl. 180—46.)



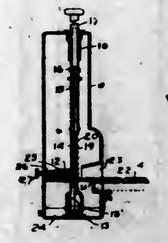
1. In a four wheel drive for vehicles, an axle housing, an axle shaft rotatably mounted therein and adapted to be rotated by the engine of a self propelled vehicle, said housing being provided at its end with diametrically opposite arched arms, a hollow wheel spindle provided at its inner end with an annular flange, pivot bolts inserted through said flange and the arms of the axle housing and serving to pivotally secure the spindle to the housing for rocking movement about a vertical axis, a flared flange outwardly of the first mentioned flange and carried by the inner end of the hollow wheel spindle, a stub shaft extending through said spindle and having a cap mounted thereon, a wheel having a hollow hub fitting rotatably mounted on the spindle, a brake carrying flange carried by said wheel, brake bands mounted on said brake carrying flange, and means to prevent longitudinal movement of the wheel hub fitting upon said spindle.

1,353,412. RAIL-BRACE. JOHN G. MUELLER, Dayton, Ohio. Filed Nov. 1, 1918. Serial No. 260,648. 13 Claims. (Cl. 238—53.)



3. In a rail brace, the combination, with a tie rod, of a clamping device operable therewith adjacent each rail flange and comprising a clamping member, a binding member, said members being adapted to engage the top and bottom sides respectively of the rail flange and means whereby said members may be adjusted relative to the tie rod and to each other to clamp a portion of said rail.

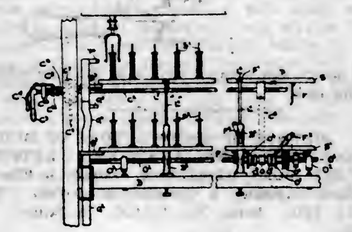
1,353,413. ENVELOP-OPENER. JOHN A. MULLIGAN, Narragansett Pier, R. I. Filed Dec. 26, 1918. Serial No. 268,261. 4 Claims. (Cl. 164—44.)



1. An envelop opener comprising a casing having a bed provided with slots having cutting edges, a knife passed through each slot and pivoted therebelow, a plunger above

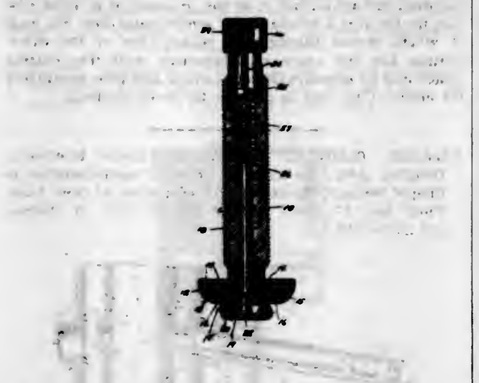
the bed operatively connected with the knives and having means for holding it normally and yieldably with the knives retracted, a yieldable stop slidably mounted upon the bed and extending part way across the slots in the direction of their cutting edges, the stop being movable from such position under the influence of operative movement of the knives and means for guiding envelops into positions against the stop.

1,353,414. DOFFING MECHANISM FOR SPINNING-FRAMES. NORMAN ROBERT NEWSHOLME, Keighley, England. Filed Oct. 30, 1918. Serial No. 260,385. 5 Claims. (Cl. 118—18.)



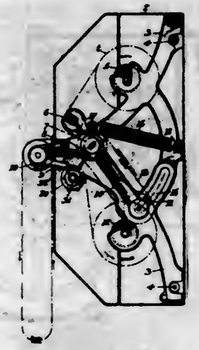
1. Doffing mechanism for spinning frames comprising, in combination duplicate spindle carrying rails, with fixed guides for each rail, said guides being inclined one to the other to allow the rising and falling rails to pass.

1,353,415. PNEUMATIC VALVE. JOSEPH N. NEWSOM, HARRY E. HARDEE, and WILLIAM F. LESCHEN, St. Louis, Mo., assignors to Newsom Valve Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 18, 1919. Serial No. 271,796. 2 Claims. (Cl. 152—12.)



2. In a pneumatic valve, a tubular body, the lower end of which is provided with an annular recess that is concentric with the opening through the valve body, an annular rib formed on the bottom of said recess, which rib is substantially V-shaped in cross section, ribs projecting from the side walls of the recess, an elastic gasket set in said recess so that the outer face of the opening is beyond the outer face of the gasket and in which the ribs in said recess are embedded, lips on the lower end of the tubular body for retaining the gasket in said recess, a stem passing through the tubular body, a disk on the lower end of said stem, and a rib formed on said disk adjacent to its edge, which rib is substantially of inverted V-shape in cross section and is greater in diameter than the diameter of the rib on the bottom of the recess.

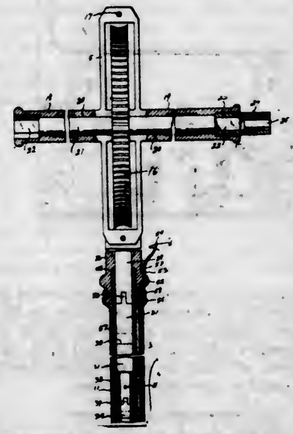
1,353,416. ROLLER-TOWEL CABINET. C BLAKE OSCUTT, New York, N. Y. Filed Nov. 22, 1918. Serial No. 263,654. 10 Claims. (Cl. 45—32.)



1. The combination with a roller towel cabinet, of a supply roller, a take-up roller, means adapted to be operated by the towel as it is drawn from the supply roller and impart movement to the take-up roller, braking means engaging the towel in advance of the take-up roller and causing it to feed to the latter under tension, and means for locking said braking means against reverse movement.

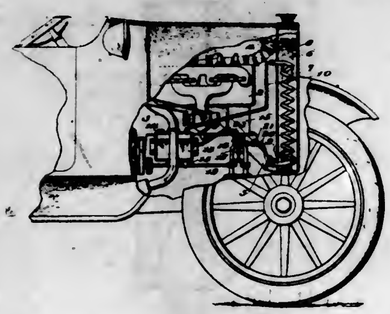
6. The combination with a roller towel cabinet, of a supply roller, a pair of take-up rollers, a pair of pivoted links carrying one of said take-up rollers whereby it may be movable in a radial direction toward and from the other, means operative to yieldingly hold the link supported take-up roller toward the other, and means adapted to be operated by the towel as it is drawn from the supply roller and impart movement to one of said take-up rollers.

1,353,417. DOUBLE-ACTING POWER-WRENCH. CHARLES E. PENDLETON, Enid, Okla. Filed Nov. 22, 1919. Serial No. 339,888. 8 Claims. (Cl. 81—57.)



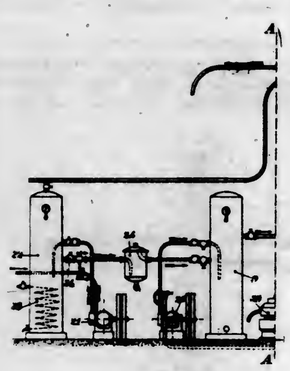
1. In a wrench mechanism including a wrench element, the combination with a casing for said element, a source of operating means remote from the wrench element including a clutch mechanism, a flexible connection between the operating means and the wrench element and being operatively controlled by the clutch mechanism, and means carried by the casing and having operative connection with the clutch mechanism for moving an element of said clutch mechanism into and out of engagement with the operating means.

1,353,418. SELECTIVE COOLING AND HEATING SYSTEM FOR AUTOMOBILE-RADIATORS. HORACE J. PETERSON, Montpelier, Idaho. Filed Feb. 19, 1918. Serial No. 218,007. 8 Claims. (Cl. 123—170.)



1. In a cooling system for engines, a radiator water tank, a cooling conduit therein, a tank for a liquid refrigerant, and means for creating a circulation of the refrigerant from the refrigerant tank and through the cooling conduit.

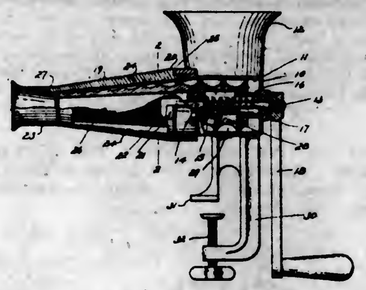
1,353,419. METHOD OF AND APPARATUS FOR HYDROGENATING FATTY ACIDS AND THEIR GLYCERIDS. AUGUSTIN RADISSON and PAUL BERTHON, Lyon, France; said Radisson assignor to Societe de Stearinerie et Savonnerie de Lyon, Lyon, France. Filed June 21, 1917. Serial No. 176,181. 4 Claims. (Cl. 87—12.)



1. In the process of saturating unsaturated fatty acids or their glycerids by means of hydrogen in the presence of a catalyzer, maintaining a constant speed of reaction by the progressive addition of external heat, and increasing the amount of catalyzer as the proportion of unsaturated fatty acids or glycerids decreases.

1,353,420. CRUSHING-MACHINE. MICHAEL J. RENO and ALBERT SCARAMELLA, New Haven, Conn. Filed Apr. 15, 1920. Serial No. 374,092. 2 Claims. (Cl. 100—48.)

1. In a crushing device, a body, a rotary and longitudinally movable screw therein, said body having opposite dogs extending outwardly therefrom, a sieve frame including a head rotatably engaged with the body and having ears engageable with the dogs, a mouth, spaced longitudinal tie bars having flat uninterrupted inner faces connected at their ends to the mouth and head, and a sieve in the frame arranged between the bars and between the



head and mouth and engaged with said flat uninterrupted faces of the bars.

1,353,421. METHOD OF MANUFACTURE OF RUBBER BATHING-CAPS AND ANALOGOUS ARTICLES. RALPH EARL RILEY, Akron, Ohio, assignor to The Miller Rubber Company, a Corporation of Ohio. Filed Sept. 11, 1919. Serial No. 323,005. 8 Claims. (Cl. 154—42.)



1. The herein described method of making rubber bathing caps and analogous articles which comprises folding a rubber sheet upon itself, supporting it upon a suitable mandrel and subjecting it to the pressure of a blunt cutting device over a substantially semicircular line, the ends of which extend through the folded edge of the sheet, uniting the cut edges simultaneously with the cutting action and by pressure from the cutter and then separating the sheet at its fold to provide the head opening.

1,353,422. RABBLE. EUGENE CLAYBORNE ROBINSON, Douglas, Ariz., assignor of fifty-five one-hundreths to Phelps Dodge Corporation, a Corporation of New York. Filed Jan. 17, 1919. Serial No. 271,746. 7 Claims. (Cl. 257—119.)



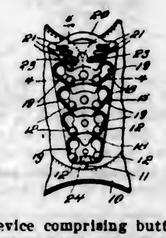
1. In apparatus of the class described, a cooling-fluid supply shaft, an inclosing exhaust-fluid conducting shaft, the first mentioned shaft having a seat and an opening surrounded thereby and in communication with its interior and the second mentioned shaft having an opening opposite the seat, and a rabble arm comprising inner and outer tubular members, the inner member being supported within and by the outer member and the inner end of the outer member of the arm being fitted through the said opening in the second-mentioned shaft and into the said seat.

1,353,423. RAILWAY SYSTEM. GEORGE BERTHOLD SAMUELSON, Isleworth, and WILLIAM HENRY GLASER, Tunbridge Wells, England. Filed May 12, 1920. Serial No. 380,949. 22 Claims. (Cl. 104—20.)



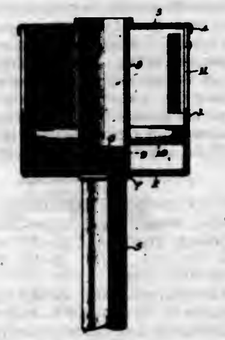
1. In a railway-system, the combination of a track, stations disposed along it, an aggregation of vehicles constituting a train adapted to travel along the track past a station, means for establishing communication for passengers between the vehicles of said train, a vehicle adapted to stand on the track at said station to receive passengers in it, means directing said vehicle to leave the station in advance of the said train when said train approaches within a pre-determined distance of said station and means permitting the said train to overtake said vehicle at a pre-determined distance from said station.

1,353,424. SHOE-FASTENER. VICENTE C. SANTOS, Singalong, Manila, Philippine Islands. Filed Oct. 4, 1919. Serial No. 328,370. 7 Claims. (Cl. 24—205.)



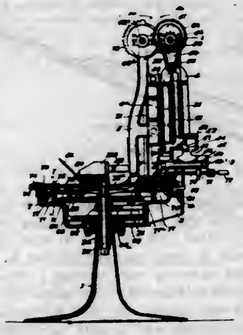
1. A fastening device comprising buttons or studs arranged in spaced rows along the adjacent edges of an opening and means removably engageable with the buttons and movable longitudinally of the rows, whereby the edges of the opening will be brought together or separated.

1,353,425. EMULSIFYING-MACHINE. JOHN FREDERICK SCHLAPPI, Sioux City, Iowa. Filed Apr. 2, 1920. Serial No. 370,833. 2 Claims. (Cl. 259—96.)



1. A device of the character specified, comprising a closed casing, means for rotating the casing, said casing having discharge ports near its outer end, a feed tube at the axis of the casing, said tube having discharge ports at its inner end and at the inner end of the casing, and the casing having an internal annular rib between the discharge ports of the casing and the discharge ports of the feed tube for constraining the material to move inwardly toward the center of the casing before passing through the discharge ports, the casing having radial tongues adjacent to the discharge ports, and said feed tube being imperforate between the annular rib and the outer end of the casing to constrain all the material to feed at the inner side of the rib.

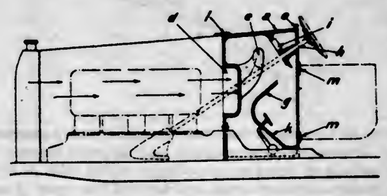
1,353,426. MACHINE FOR SHAPING ARTIFICIAL-FLOWER PETALS. ALWIN J. SCHWARZENBACH, Hasbrouck Heights, and BENJAMIN W. TUCKER, South Orange, N. J.; said Tucker assignor, by mesne assignments, of his right to Michael Gold, New York, N. Y. Filed May 10, 1919. Serial No. 296,210. 21 Claims. (Cl. 41—2.)



2. In a machine of the class described, the combination of a rotary feed table, a series of blank supports mounted on said table, a group of scoring devices arranged in juxtaposition at one side of the table and above said table, means for rotating said table step by step to present the blank supports successively beneath the group of scoring devices, means for moving the scoring devices toward and from the table between each step-by-step movement of the table, means for moving the scoring devices horizontally over a blank support while said devices are in their lowered position, a series of radially movable slides mounted on the table adjacent the inner ends of the blank supports, a series of gripper plates pivotally held to the slides adapted to clamp blanks upon the blank supports, means for swinging said gripper plates into engagement with the blank supports as each support is advanced toward the scoring devices, means for retracting the slides as the scoring devices move over the blank supports to slide the gripper plates over the blanks in advance of the scoring devices, and means for swinging the plates upwardly at the conclusion of the inward movement of the slides.

5. In a machine of the class set forth, the combination of a blank support, a vertically reciprocable support, a plurality of slides mounted on said vertically reciprocable support to move horizontally relatively thereto, scoring devices carried by said slides, means for shifting said slide support toward and from the blank support, and means for reciprocating said slides relatively to the slide support.

1,353,427. DASHBOARD FOR MOTOR-VEHICLES. LAURENT SEGUIN, Paris, France, assignor to Societe Des Moteurs Gnome Et Rhone, Paris, France. Filed Mar. 5, 1920. Serial No. 363,603. 4 Claims. (Cl. 180—90.)



1. A dash-board constituted by a casing having a front wall, a rear wall, a top wall and two side walls, said

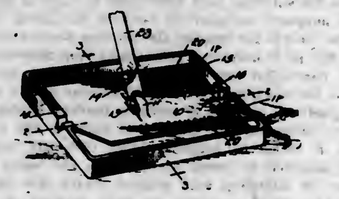
casing conforming externally to the outer shape of the carriage body, the front wall being depressed rearwardly in its center portion to form a chamber open at the front and conduits in said casing to provide a communication between said chamber and the outside of the vehicle, said conduits opening laterally through said side walls.

1,353,428. CLINKER-EXTRACTOR. GUSTAF SELANDER, Chicago, Ill. Filed Sept. 22, 1919. Serial No. 325,287. 2 Claims. (Cl. 294—10.)



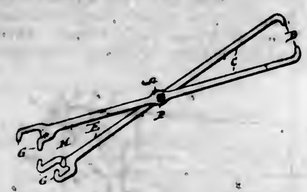
1. A clinker extractor comprising, a poker rod having a handle at one end and a clinker engaging formation at the other end, a radius link pivoted to said rod near the handle end thereof, a carrying rail pivoted at one end to said link, the said carrying rail having a concavo-convex form in cross section adapting the same for straddling engagement with the poker rod, and a clinker engaging claw attached to the free end of said carrying rail.

1,353,429. POLISHING APPARATUS. WILLIAM SEVERNS, Chicago, Ill. Filed Nov. 28, 1919. Serial No. 341,109. 1 Claim. (Cl. 15—13.)



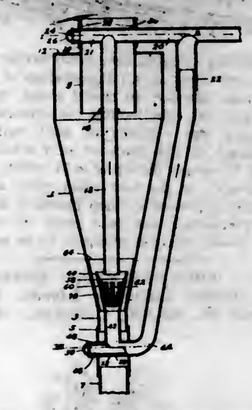
In polishing apparatus, a body portion provided upon its upper surface with a continuous upstanding flange on its periphery, means for connecting an operating handle to said body, a pair of U-shaped clamping members having the ends of the arms of the U out turned, and bearings formed on said body portion adapted to receive said out turned ends, the portions of said clamping members forming the base of the U being disposed adjacent the interior of the flange when the clamping members are in clamping position.

1,353,430. SURGICAL FORCEPS. CHARLES J. SIGLER, Honey Creek, Iowa. Filed July 24, 1918. Serial No. 246,510. 1 Claim. (Cl. 128—324.)



A pair of forceps of the character described, comprising a pair of pivoted members, one end of each member at the same end of the forceps being provided with a bifurcation forming spaced arms, the ends of the arms of each bifurcation being bent in toward each other thereby forming opposite registering lugs, a bent in lug in the bottom of each bifurcation, said lugs being in substantial registration with each other and in alinement with a longitudinal line centrally disposed at the ends of each bifurcation.

1,353,431. DUST-COLLECTOR. JAMES F. SIMS, Kansas City, Mo. Filed Sept. 23, 1919. Serial No. 325,686. 9 Claims. (Cl. 183—83.)



1. In a device of the character described, a conical shell having inlet and outlet openings, a tubular guard at the upper portion of said shell, a suction tube extending upwardly from the lower portion of the shell, branches extending from the upper portion of said suction tube and out through openings in the guard, and means to effect vertical adjustment of said branches in the guard.

1,353,432. MEANS FOR PROMOTING COMBUSTION. JOHN BUDD SMITH, South Orange, N. J. Filed Jan. 15, 1919. Serial No. 271,271. 4 Claims. (Cl. 110—58.)

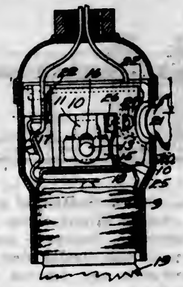


1. As an article of manufacture, a pipe section adapted to form a part of a duct for leading away the products of combustion from a combustion chamber, and a narrow tubular element extending circumferentially along the inner surface of the pipe section and defining therewith an air chamber, the walls of said air chamber being perforated at points remote from each other for admitting air to the chamber and for connecting the chamber with the interior of the pipe section, respectively.

1,353,433. MULTISOCKET SWITCH. RAYMOND D. SMITH, Boston, Mass., assignor to Tremont Products Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 27, 1916. Serial No. 128,131. 8 Claims. (Cl. 173—336.)

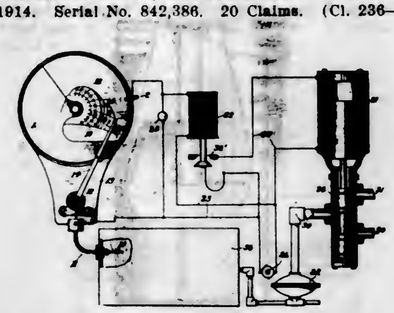
7. A socket-switch structure embodying, in combination; an insulating block recessed to form a switch chamber with a portion of said block laterally adjacent said chamber; means for inclosing and supporting said block including a cylindrical casing shell closely surrounding and adapted for telescopic assemblage with same; a main lamp receptacle depending from said block concentrically with said casing; an auxiliary plug receptacle embedded in the portion of said insulating block adjacent said switch chamber, the inner end of said auxiliary receptacle opening into the said switch chamber and the outer plug-receiving end falling interior the cylindrical walls of said casing shell to permit said telescopic assemblage thereof; and switch mechanism mounted in the said recessed

portion of the insulating block, and including a conductive current distributer adapted in different positions



to engage with respectively different stationary contacts for supplying current to each of said receptacles.

1,353,434. AUTOMATIC CONTROLLING DEVICE. CHARLES J. STUART, Somerville, Mass. Filed June 2, 1914. Serial No. 842,386. 20 Claims. (Cl. 236—46.)



20. The combination with a device to be regulated, a measuring instrument operatively connected to the device and means for regulating the device, of a templet having a predetermined contour for coöperating directly with the measuring instrument to so control the means for regulating the device to be regulated that it is regulated in accordance with predetermined conditions.

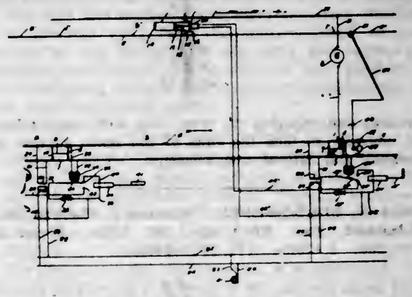
1,353,435. GIN OR LINTER SAW. PARKER H. SWEET, Boonton, N. J., assignor to The Barker-Sweet Manufacturing Company, Jamaica, N. Y., a Corporation of New York. Original application filed June 10, 1918, Serial No. 239,124. Divided and this application filed Feb. 18, 1919. Serial No. 277,730. 4 Claims. (Cl. 13—14.)



1. In gin or linter saws, the combination of a disk having circumferentially disposed openings adjacent the periphery; a band of circular form having teeth on the outer edge; clips stamped from the band to extend laterally therefrom and in a direction transversely of the band, and between which clips and the body of the band the peripheral portion of the disk is adapted to engage; and nibs formed on the clips to engage in the disk openings for the purpose specified.

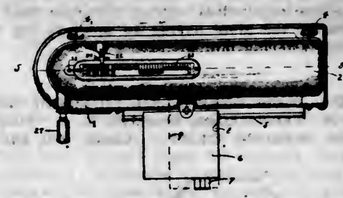
1,353,436. SIGNALING SYSTEM. GUY W. THAXTON, Fairfield, Ala. Filed Apr. 22, 1919. Serial No. 291,914. 3 Claims. (Cl. 246—31.)

1. In a signaling system for electric railways, a railway track divided into a plurality of blocks electrically insulated from each other, a trolley wire divided into blocks corresponding to the blocks of said track, means for supplying electrical energy to the respective blocks of said trolley wire and to the rails of said track, and



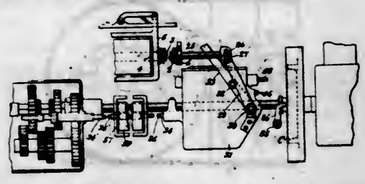
means controlled by a train traveling upon said track for reducing the available electrical energy in the trolley circuit of the block behind that occupied by the train so as to reduce the speed of a second train entering said block behind.

1,353,437. CHECK-WRITER. CHARLES G. TIEFEL, Rochester, N. Y., assignor to Todd Protectograph Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Dec. 17, 1917, Serial No. 207,503. Renewed July 26, 1920. Serial No. 399,158. 13 Claims. (Cl. 197—6.2.)



1. In a machine of the class described, the combination with a type carrier provided with lines of type to print words of different lengths, of means whereby all or a part of any desired word may be printed, and a manipulative device controlling said means.

1,353,438. GEAR-SHIFTING MECHANISM. CHARLES R. UNDERHILL, New Haven, Conn. Filed Mar. 12, 1917. Serial No. 154,298. 30 Claims. (Cl. 74—58.)



1. In a gear shifting mechanism, the combination with a pair of coöperative gears to be brought into mesh, and a normally energized power device for shifting one of said gears into mesh, of means for holding said power device under restraint which includes a two-stage let-off device effective for releasing the power device.

1,353,439. TOGGLE-BUTTON. PERCY DE F. WARNER and FRANK E. WARNER, Waterbury, Conn., assignors to Scovill Manufacturing Company, New Haven, Conn., a Corporation of Connecticut. Filed Jan. 23, 1920. Serial No. 353,478. 3 Claims. (Cl. 24—100.5.)

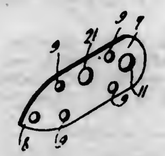
1. A button, having a permanently applied toggle composed of a piece of metal bent upon itself to form a but-

ton-eye engaging loop and its limbs at the farther end brought together, the outer portion of one limb being



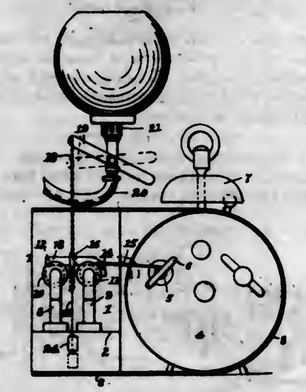
expanded and engaging the other limb both longitudinally and laterally to lock the ends of the limbs against longitudinal and lateral displacement.

1,353,440. BOLT-KEEPER. WILLIAM F. WAGNER, North Braddock, Pa. Filed Apr. 24, 1919. Serial No. 292,255. 1 Claim. (Cl. 292—340.)



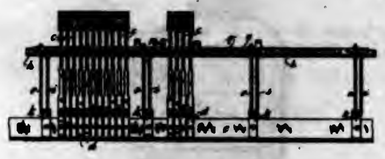
A bolt-keeper in the form of a thin, elongated, flat plate pointed at one end, the plate being provided adjacent to its other end with a first bolt-receiving opening, the plate being provided intermediate its ends with a second bolt-receiving opening, the second opening being located closer to one longitudinal edge of the plate than is the first opening, the plate having an aperture for the reception of fastening means.

1,353,441. TIME-CONTROLLED LIGHTING DEVICE. JOHN M. WEISENREIDER, Brooklyn, N. Y. Filed Sept. 3, 1919. Serial No. 321,397. 1 Claim. (Cl. 161—9.5.)



The combination with the alarm spindle of an alarm clock, of a pair of spaced rotatably supported wheels having grooved peripheries, a bar fitting loosely in the grooves in said wheels and supported thereby across the space between them, a lighting device, a flexible member operatively attached to said lighting device, a rigid loop carried by said flexible member, a weight attached to the loop, said loop fitting loosely on said bar between said wheels and supporting the weight out of operative position, and means of connection between said bar and the alarm spindle of the clock, whereby said bar will be withdrawn from said wheels, the loop released from said bar and the weight dropped for actuating the lighting device when the alarm spindle is rotated.

1,353,442. HAMMER REST-RAIL FOR GRAND-PIANO ACTIONS. FERNANDO A. WESSELL, New York, N. Y. Filed Mar. 4, 1920. Serial No. 363,212. 1 Claim. (Cl. 84—221.)



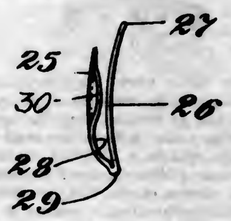
In a piano action, the combination of a main rest-rail, a divided rest-rail resting directly upon the main rest-rail and moved therewith, hammers arranged to rest directly and only upon the divided rest-rail, and arms supporting said rest-rails and pivoted co-axially with each other and with the hammers.

1,353,443. EGG-MIXER. ROBERT GROUT WILSON, Davis, W. Va. Filed Feb. 5, 1920. Serial No. 356,535. 1 Claim. (Cl. 259—72.)



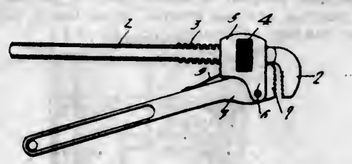
An egg mixer consisting of a container, a removable cover therefor having means to position the same in immovable relation with the container, and an axial stem projecting from the cover within the container having a pair of side wings integral therewith adjacent to its free end and positioned approximately in the center of the container, said side wings having their inner and outer portions separated from the stem by slits and being positioned at oppositely inclined angles with respect to the longitudinal axis of the stem and with their inner and outer portions projecting upon relatively opposite sides of the stem.

1,353,444. COLLAR-BUTTON. ALEXANDER YADUCK, Kansas City, Mo. Filed Mar. 4, 1920. Serial No. 363,290. 2 Claims. (Cl. 24—101.)



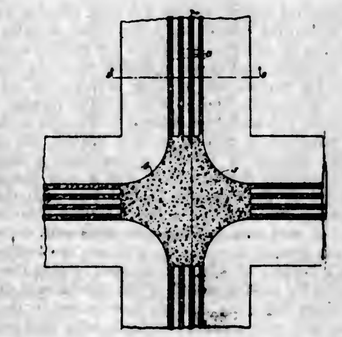
1. A button of the class described comprising a vertical strip adapted to be wholly embedded in a neck band, an oval head formed with said strip, said head being bent convexly and disposed approximately parallel to said strip, and resilient integral connecting means extending between said strip and head, said head being adapted to pass through the button-hole of a collar.

1,353,445. COMBINATION-TOOL. JACOB ZIEGLER, Coffeyville, Kans. Filed Nov. 15, 1918. Serial No. 262,677. 1 Claim. (Cl. 81—78.)



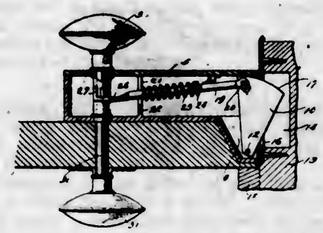
In a device of the class described, a shank provided at one end with a laterally projecting fixed jaw and having threads at the rear of the jaw; a collar inclosing the shank and having laterally extended ears; a nut journaled in the collar and engaging the threads; and a handle substantially equal in length to the shank and pivotally supported close to its outer edge on the ears independently of the nut at a point close to the outer ends of the ears, the handle terminating in a movable jaw coacting with the fixed jaw when the handle and the shank move toward each other.

1,353,446. ROADWAY. ANTON ANFINSON, Wakonda, S. D. Filed May 8, 1919. Serial No. 295,580. 1 Claim. (Cl. 94—4.)



In combination, a plurality of trackways arranged in intersecting relation and terminating short of actual intersection, each trackway being formed of a plurality of spaced parallel bodies of plastic material embedded within the ground and each concaved at its upper face in cross section, and a smooth pavement connecting the ends of the trackways.

1,353,447. DOOR-LATCH. EDWARD B. BARR, Newton, Kans. Filed Oct. 4, 1919. Serial No. 328,387. 1 Claim. (Cl. 292—222.)



The combination with a door jamb having a door stop and a keeper plate having a retaining edge in parallel spaced relation to the stop, of a door disposed to rest with a side face against the stop and its opposite side face between the stop and said retaining edge, and a segmental bolt having its curved end disposed against the keeper edge and its minor end pivotally connected with the door with its axis in a line between the outer edge of said stop and the keeper edge, whereby to swing the bolt laterally toward the keeper edge upon movement of the door away from the stop, the curvature of the segmental bolt having its axis parallel with the axis of movement of the bolt and disposed and displaced from the latter in a direction away from the jamb, whereby to insure contact of the curved bolt end with the keeper edge normally, and means for holding the bolt yieldably in such contacting position and means for swinging the bolt from such contacting position.

1,353,448. CONCENTRATION OF SULFURIC ACID. ANTON CHRISTIAN BOHRE, deceased, by Katharina Charlotte Bohre, executrix, Bergen, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Filed Mar. 27, 1919. Serial No. 285,674. 1 Claim. (Cl. 23—1.)

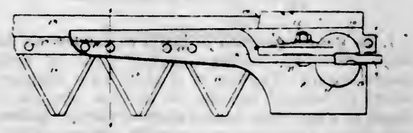
The process for the concentration of sulfuric acid which consists in passing a current of hot nitrous gases having a temperature of above 600° C. in contact with the acid to be concentrated, and mixing a portion of the resulting moist gas with the current of hot nitrous gases.

1,353,449. HEAT-EXCHANGER. CARL F. BRAUN, San Francisco, Calif. Filed Sept. 12, 1918. Serial No. 253,811. 3 Claims. (Cl. 257—236.)



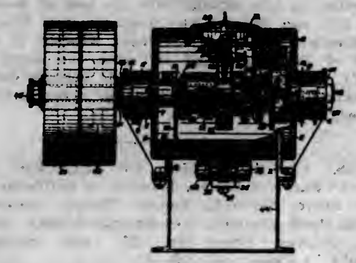
1. In a heat exchanger, an end cap, a tube head adapted to rest thereagainst, a plurality of open-ended tubes extending through said head and parallel to each other, a bolting head through which the opposite ends of said tubes extend, a cap secured to said bolting head whereby communication between all of the tubes may be established, sectional longitudinal baffle members adapted to divide the tubes into two groups, transverse perforated baffle members interposed between the sections of said longitudinal baffles and a connecting bolt upon which all of said baffles are secured.

1,353,450. SICKLE. VINCENT B. BROWN, Plattsmouth, Nebr. Filed May 15, 1919. Serial No. 297,311. 1 Claim. (Cl. 56—299.)



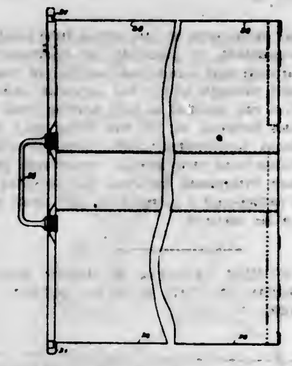
A sickle including a base, a portion extending therefrom, an upstanding rib arranged upon the base and said extended portion, a socket integral with one end portion of the rib, and overhanging the base, a socket member detachably connected to the rib and coöperating with the first mentioned socket for engagement with a pitman ball, there being a longitudinally extending rabbet in the lower face of the extended portion of the base, a main bar arranged under the extended portion of the base, an auxiliary bar integral therewith and seated in the rabbet, cutting blades extending between the main bar and the extended portion of the base and abutting against the auxiliary bar, fastening means extending to the main bar, blades and extended portions for fastening them together.

1,353,451. DRIVING MECHANISM FOR ORE-CONCENTRATORS. WALTER G. BURNS, Fort Wayne, Ind. Filed Sept. 26, 1919. Serial No. 326,593. 7 Claims. (Cl. 74—14.)



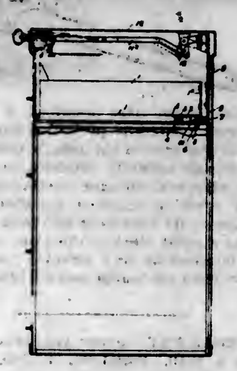
1. In mechanism of the class described having a main stand and rocking member, a drive-shaft; a drive-crank fixed thereon; a bearing eccentrically positioned relative to the drive-shaft; a drag-ring on the bearing; an eccentric having a radial arm, loosely mounted on the drive-shaft; a pair of toggles carried by the drag-ring, having connections respectively with the drive-crank and radial arm and being adapted to impart oscillating movement to the eccentric as it is revolved; and a roller on the eccentric for actuating the rocking member.

1,353,452. METAL FILING-CABINET. WALTER CHIPPERFIELD, Homechurch, England, assignor to Roneo Limited, London, England, a Company of Great Britain. Filed Nov. 13, 1919. Serial No. 337,831. 5 Claims. (Cl. 45—7.)



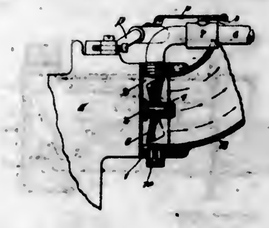
1. In the construction of metal cases, drawers and the like; connecting the edges of two plates of metal employed in such structures at or about right angles to each other, by bending the edge of the first plate to form a flange at about right angles thereto, forming or providing said flange with tongues or inward projections extending in a plane parallel with the surface of said first plate, and forming slots through the main wall of said first plate, forming the second plate with projecting tongues on its edge to take into said slots in the main wall of the first plate, such engagement being effected when said two plates are at a proper relative angle, and forming slots or holes through the wall of the second plate in such positions that when said second plate is brought to the required angle with said first plate, said tongues or inward projections on the edge of the flange of the first plate will enter the slots or holes in the main wall of the second plate, whereby the said plates will be firmly connected together when maintained at a proper relative angle to each other and can be with equal readiness disconnected when such relative angle is changed.

1,353,453. MEANS FOR SIMULTANEOUSLY LOCKING SLIDING DRAWERS, SHELVES, OR OTHER SLIDING STRUCTURES. WALTER CHIPPERFIELD, Romford, England, assignor to Roneo Limited, London, England, a Company of Great Britain. Filed Jan. 5, 1920. Serial No. 349,589. 2 Claims. (Cl. 45—9.4.)



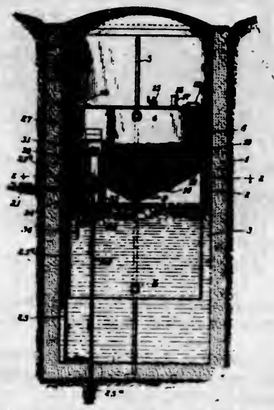
1. Means for locking sliding drawers, shelves, and other sliding structures comprising a vertically movable locking rod, a roller or equivalent thereon for each drawer or the like to be locked, and means operable from the exterior of the case for raising and holding said rod in its locking position, in combination with a pivoted locking arm on each drawer extending rearwardly and about horisontally in the direction of motion of said drawer, its free rear end being capable of motion in one (say a downward) direction against spring action, and a cam shaped member carried on the rear end of said arm such that when said locking arm is raised a roller carried thereby passes in front of said cam member and locks said drawer, and when said drawer is very nearly closed the locking roller acts on a surface of said cam member, closes the drawer, and effects its locking action, while should said drawer be pushed home after the rod has been raised to the locking position, said cam member contacts with said roller, the locking arm is raised, and said cam member passes beneath and behind the roller and effects the locking action.

1,353,454. MEANS FOR SUPPLYING EXPLOSIVE MIXTURES TO ENGINES. JOHN J. COCHRAN, St. Louis, Mo., assignor to Martin-Lumaghi Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 13, 1918. Serial No. 266,638. 1 Claim. (Cl. 123—119.)



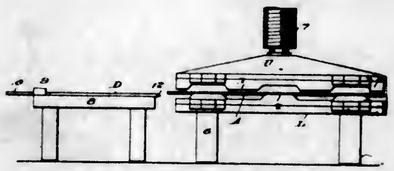
The combination with an internal combustion engine having a crank case, an intake pipe for explosive mixture, and a carbureter provided with a throttle, of a connecting pipe leading from said crank case to said intake pipe, a valve in said connecting pipe, and means connecting said valve to said throttle whereby said valve may be operated upon operation of said throttle.

1,353,455. ACETYLENE-GAS GENERATOR. CLAYTON T. COOK and CHARLES B. COOK, Owosso, Mich. Filed Aug. 8, 1916. Serial No. 113,739. 3 Claims. (Cl. 48—41.)



1. In an acetylene gas generator, wherein a main gas bell carrying a perforated carbid receptacle is movable vertically within a well or tank adapted to contain a supply of water and dipping into the water, and an outlet main or pipe extends into said bell the combination with said outlet main of a pressure regulator inclosing the mouth of said pipe within said main bell and comprising a vertically movable regulator bell, a support therefor below the level of the water in the main bell, an inlet pipe carried by said regulator bell and connecting the interior thereof with that of the main bell, and a closure adapted to close the outer end of said inlet pipe when the regulator bell is lifted by the contained gas pressure.

1,353,456. MACHINE FOR MAKING BUILDING FABRIC. WILLIAM CLAYTON CORYELL, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed July 9, 1919. Serial No. 309,630. 16 Claims. (Cl. 154—1.)

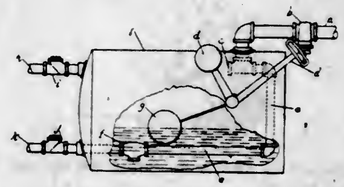


1. A machine for making building fabric including a device having means for upsetting portions of a body sheet, and means for inserting a reinforcement through said upset portions of the sheet.

1,353,457. APPARATUS FOR RETURNING WATER TO BOILERS. DAVID NELSON CROSTHWAIT, Jr., Marshalltown, Iowa. Filed Dec. 4, 1916. Serial No. 134,931. 3 Claims. (Cl. 137—101.)

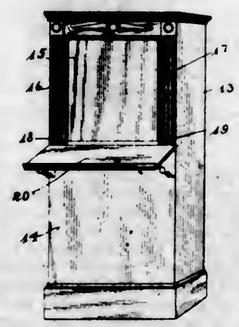
1. In an apparatus of the character described, a receiver having a water inlet and a delivery outlet to the boiler, a steam supply pipe, a steam inlet from said steam supply pipe to above the water level of said receiver, a pipe connecting said steam supply pipe and said delivery outlet having a portion submerged in the water of said receiver, an ejector arranged in said submerged portion whereby the water from said receiver is injected into the boiler through said delivery outlet.

2. In an apparatus of the character described, a receiver having a water inlet and a delivery outlet to the boiler, a steam supply pipe, a steam inlet from said steam supply pipe to above the water level of said receiver, a pipe connecting said steam supply pipe and said delivery outlet and having a portion submerged in the water of said receiver, an ejector arranged in said submerged portion and means automatically controlling the admission of steam from said steam supply pipe to said steam inlet and said ejector whereby the water from said receiver is periodically injected into the boiler through said delivery outlet.



3. In an apparatus of the character described, a receiver having a water inlet and a delivery outlet to the boiler, a steam supply pipe, a steam inlet from said steam supply pipe to above the water level in said receiver, a pipe connecting said steam supply pipe and said delivery outlet and having a portion submerged in the water of said receiver, an ejector arranged in said submerged portion, and a float-controlled valve mechanism for regulating the admission of steam to said steam inlet and said injector whereby the water from said receiver is periodically injected into the boiler through said delivery outlet.

1,353,458. DIRECTORY-MACHINE. WILLIAM C. CUTLER, North Glendale, Calif. Filed Jan. 9, 1920. Serial No. 350,420. 8 Claims. (Cl. 40—86.)



8. In a directory device of the class described, a series of cards, setting means, lifting means, traveling members having means normally engaging with the setting means and having means adapted to be lifted from the setting means when set in a selective position in relation to one of the cards, and locking means for locking the setting means when the lifting means is operated and having means to lock the lifted means when the setting means is operated.

1,353,459. SPADE AND LIKE DIGGING-TOOL. FREDERICK JAMES DANN, Countesthorpe, England, assignor to Wallace James Bartholomew, London, England. Filed May 27, 1919. Serial No. 300,148. 4 Claims. (Cl. 254—131.5.)

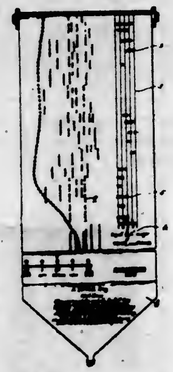
1. An attachment for a digging tool comprising a stand, a clip movably mounted on the stand and adapted to

loosely embrace the shaft of the tool, means for retaining said clip in position on said shaft, and an anti-friction



device adapted to provide a bearing for the tool in the vicinity of the clip.

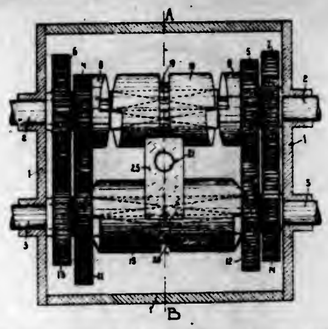
1,353,460. PERFORATED MUSIC-SHEET FOR AUTOMATIC MUSICAL INSTRUMENTS. GEORGE HOWLETT DAVIS, West Orange, N. J. Filed Nov. 21, 1916. Serial No. 132,537. 2 Claims. (Cl. 84—162.)



1. A song roll for automatic musical instruments including a sheet having note perforations therein adapted to control the instrumental rendition, and syllables forming song words arranged in succession in a zone extending longitudinally of the sheet and spaced from the perforations, the successively arranged syllables having their initial letters located at different distances from the sides of the zone in accordance with the pitch at which the syllables are to be rendered, those having a high pitch being located near one side of the zone, those having a low pitch near the other side thereof and those having intermediate pitches being located at such distances from the high and low pitch positions as to indicate their relative respective pitches, the construction being such that the singer is guided in pitch by the location of the initial letters of successive syllables transversely in the zone.

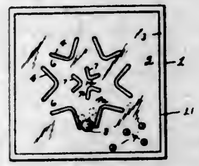
1,353,461. CHANGE-SPEED GEAR. CORNELIS DOMINICUS, Baarn, Netherlands, assignor to Pieter Gerard Tideman, Apeldoorn, Netherlands. Filed Feb. 4, 1920. Serial No. 356,293. 3 Claims. (Cl. 74—59.)

1. In a change speed gear, a driving shaft, a driven shaft parallel therewith, two pairs of gears on each shaft, one gear of each pair of gears being fast and the other being loose, and each fixed gear of one shaft being engaged with a loose gear of the other shaft; a clutch on each shaft, revoluble therewith and shiftable thereon into engagement with either of the loose gears, and common operating means for the clutches, arranged to move either



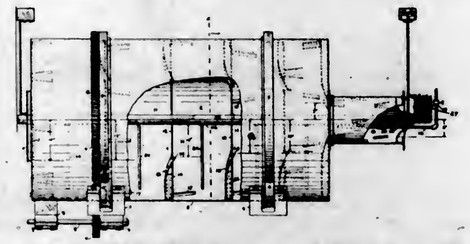
of them into clutching position and to disengage the other and lock the same against clutching movement.

1,353,462. GAME. JOSEPH L. DUGGAN, Chester, Pa. Filed Nov. 14, 1919. Serial No. 337,929. 4 Claims. (Cl. 46—41.)



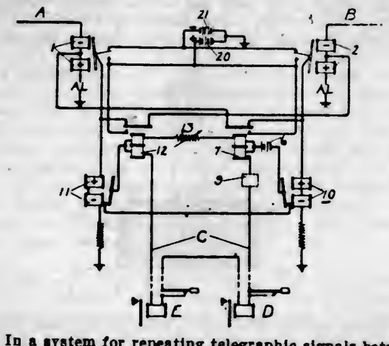
1. In a game, a container, a series of longitudinally bent staples arranged on a field to form a substantially circular inclosure, a relatively large ball in said inclosure, said staples being spaced apart and forming inclined openings into said inclosure and a series of small balls to be brought into said inclosure.

1,353,463. LEACHING-MACHINE. GUY S. DYER, Layton, Utah. Filed Aug. 27, 1919. Serial No. 320,085. 2 Claims. (Cl. 23—31.)



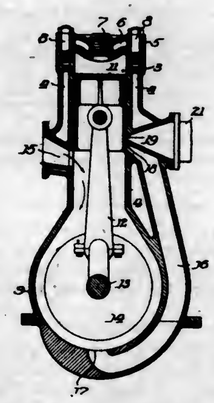
1. In an apparatus of the character described, a rotatable cylindrical leaching chamber, having an opening at one end to feed thereinto material to be leached, means for rotating said chamber, a longitudinal series of transverse annular partitions in said chamber, spaced apart to form compartments therein, diametrically opposite perforated shifter plates adjacent to each partition and oblique thereto, spaced at their outer edges from said partitions and extending at their inner edges through the central openings in said partitions, a pipe for supplying water into the other end of said cylinder, a pipe for supplying steam to each compartment, and extending transversely of the cylinder to a distance outside the peripheries of the openings in the adjacent partitions, means for individually controlling the flow of steam through said steam pipes, and a washing chamber secured at said other end around said pipes.

1,353,464. TELEGRAPH REPEATING SYSTEM. AUGUSTUS J. EAVES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1919. Serial No. 337,447. 2 Claims. (Cl. 178—71.)



1. In a system for repeating telegraphic signals between a main line and a branch loop, an artificial balancing impedance for said branch loop, a pair of differential relays each having a winding in series with said branch loop and a winding in series with said balancing impedance, a battery circuit connecting the mid points of said relays, and means acting in response to current reversals in said main line to open and close said battery circuit.

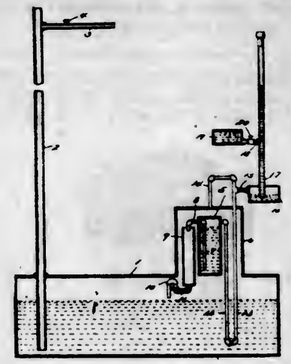
1,353,465. TWO-CYCLE ENGINE. WILLIAM A. EDWARDS, Chicago, Ill. Filed July 8, 1916. Serial No. 108,103. 8 Claims. (Cl. 123—73.)



1. A two-cycle engine, comprising a cylinder provided with inlet and exhaust ports, a piston devoid of gas deflecting provisions on its upper face arranged to reciprocate in said cylinder so as to open and close said ports, a crank case, and means including a passage having an upwardly inclined delivery end for delivering an explosive charge from said crank case through said inlet port directly against the opposite side wall of the cylinder and in an upwardly inclined direction below the longitudinal center of said cylinder.

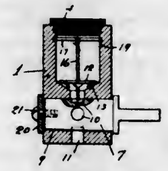
1,353,466. STATIONARY CHEMICAL-MIXING FIRE-EXTINGUISHER SYSTEM. JOHN W. ENRIGHT, New Orleans, La. Filed Mar. 10, 1919. Serial No. 281,691. 6 Claims. (Cl. 169—8.)

1. In a chemical mixing fire extinguisher system, a tank for an alkaline solution, an acid receptacle, a discharge pipe inclosed within said receptacle and discharging at its upper end into said tank, said discharge pipe also transmitting the developed high pressure from said tank to said receptacle, a pair of pipes forming a U and one of which is connected at its upper end to said receptacle, a distributing system adapted to normally contain an elastic fluid medium, a mercury vessel, a tube projecting there-



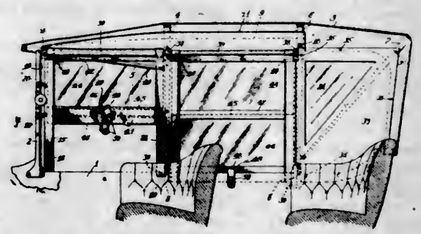
from, a receptacle for a liquid medium connected to said tube and an outlet connection between said mercury vessel and the other pipe of said pair, the fluid medium in the distributing system normally maintaining a mercury column in said tube which prevents the flow of the liquid medium from the receptacle therefor.

1,353,467. DEVICE FOR MEASURING MATERIAL FOR TOOTH-FILLINGS. JOHN F. FIETSCH, Forest Park, Ill. Filed June 25, 1916. Serial No. 104,830. 5 Claims. (Cl. 221—107.)



1. A device for mensuring materials for tooth fillings, comprising a body portion, a receptacle therein adapted to receive powdered material, a rotatable part mounted in an opening in the body portion and located beneath said receptacle, said rotatable part provided with a measuring opening adapted to communicate with the receptacle when the rotatable part is in a predetermined position, an agitating piece in the bottom of said receptacle, adapted to be moved back and forth there-across, an agitating spring projecting through said agitating piece, the end thereof engaged by said rotatable part, the upper end of said spring bent into the form of a loop engaging the wall of said receptacle so as to be held in place.

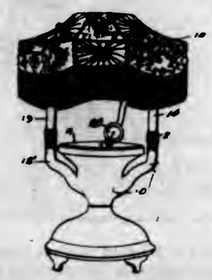
1,353,468. AUTOMOBILE-CURTAIN. SYLVESTER A. GATES, Detroit, Mich. Filed Dec. 7, 1918. Serial No. 265,699. 6 Claims. (Cl. 296—138.)



1. The combination of top rails adapted to be detachably carried by the top of an automobile and extending approximately from the windshield to the rear bow of said

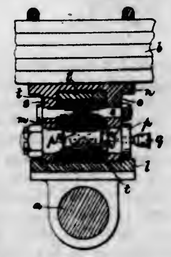
top; front, intermediate and rear rails or uprights adapted to be connected to said top rail and provided with guideways, curtain rollers carried by said top rails, curtains on said rollers and slidable in said guideways and means for holding said curtains when lowered.

1,353,469. COMBINATION PHONOGRAPH AND LAMP. PETER R. GONSKY, Chicago, Ill. Filed June 17, 1919. Serial No. 304,927. 2 Claims. (Cl. 240—2.)



1. In a machine and lamp of the character described, a base, a bracket arm mounted thereon and extending upwardly into a central position over the base, lamp appliances carried thereby, a sound arm having a form similar to that of the bracket arm, said sound arm movable at times into an opposing position corresponding symmetrically with that of said bracket arm, and means to releasably hold the sound arm in the last named position.

1,353,470. SPRING-FITTING FOR VEHICLE-AXLES. JOSCELINE C. H. GRANT, Chania Bridge, British East Africa. Filed Apr. 23, 1919. Serial No. 292,034. 5 Claims. (Cl. 280—112.)

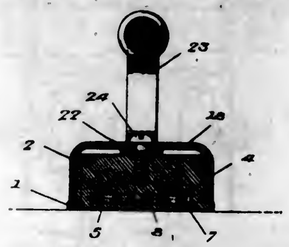


1. A spring fitting for vehicle axles, comprising interengaging members secured to the spring and the axle respectively, a cylindrical socket upon one of said members, lugs upon the other of said members, said lugs covering open ends of said socket, a revoluble bush mounted in said socket, means for securing said bush to said lugs, and means for limiting the relative rotation between said socket and bush.

1,353,471. ELECTRIC IRON. JOSEPH A. GUYER, Marion, Ind. Filed Mar. 24, 1919. Serial No. 284,698. 2 Claims. (Cl. 219—25.)

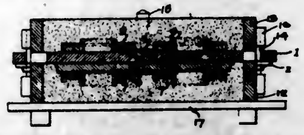
1. An electric iron comprising a base plate having an upstanding block of smaller outline, said block having a tunnel therethrough adjacent to said plate, a plate of insulating material extending through said tunnel and having bores extending therethrough, a resistance wire extending back and forth through said bores and extending from each bore to the next beyond the ends of the bores and being removable from said bores, and a cover surrounding said block and plate of insulating material and seated on the base plate.

2. An electric iron embodying a metallic block having a tunnel, an insulating plate extending within said tunnel and having bores, a resistant wire extending back and forth through said bores, an insulating bracket secured on said block at one end of the tunnel and having an offset portion overhanging said end of the tunnel, the corresponding end of the block having a recess, and said bracket having ears below said offset portion disposed in



said recess, binding posts extending through said ears for the connection of the terminals of said wire at the outer sides of the ears, binding posts carried by said offset portion and having upwardly extending contact fingers at right angles with the first named binding posts, and electrical connections between the first named and second named binding posts between said ears and under said offset portion.

1,353,472. FOUNDRY PRACTICE. ARNOLD HAASE, San Francisco, Calif. Filed Nov. 3, 1919. Serial No. 335,449. 6 Claims. (Cl. 22—193.)

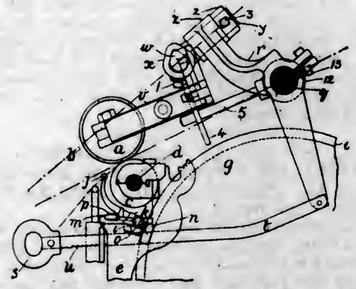


1. The combination of a plurality of complete patterns; and a match board and a core print interposed between said complete patterns.

1,353,473. WALL-PAPER FINISH. CHRISTOPHER J. HEIDORF, Hudson Falls, N. Y. Filed Oct. 23, 1918. Serial No. 259,411. 1 Claim. (Cl. 134—50.)

A coating composition comprising casein, shellac, and ground mica.

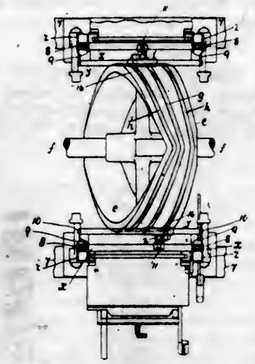
1,353,474. WINDING-MACHINE. FRANK ASHWORTH HOLT, Rochdale, and GRINDROD KERSHAW, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Aug. 24, 1916. Serial No. 116,635. 3 Claims. (Cl. 242—43.)



1. In a winding machine, a driving roll and means for supporting it, a revoluble holder for having material

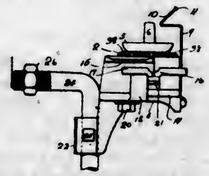
wound around it by contact with such driving roll, a carrier carrying the revoluble holder, a support providing a stationary axis parallel to the axial line of the driving roll, a bearer for said carrier carried by such support to swing about said axis and having a part offset in a direction transverse to said axis and affording bearing for carrying and allowing swinging of said carrier and presenting the axis of swinging of said carrier crossing over the axial line of the driving roll at right angles, and, when the revoluble holder is nearest the driving roll, inclined toward the radial direction from the said stationary axis to the place of contact between a revoluble holder and the driving roll at an acute angle not less than the angle through which the bearer swings in any period of winding in which precision of disposition of yarn in a yarn package is necessary, a turning means connected to such carrier having an oblique contact face and a stationary part to receive contact of the contact face of said turning means.

1,353,475. WINDING-MACHINE. FRANK ASHWORTH HOLT, Rochdale, and GRINDROD KERSHAW, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Original application filed Aug. 24, 1915, Serial No. 47,182. Divided and this application filed Nov. 10, 1916. Serial No. 130,552. 6 Claims. (Cl. 242—43.)



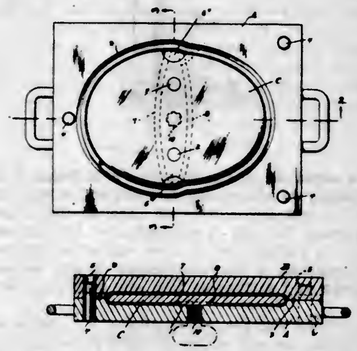
1. In a winding machine, a holder whereon material may be wound, means for supporting the holder, a cam having a plurality of cam tracks for moving a thread guide for guiding material to a holder, a thread guide having a plurality of places for receiving a connecting device for connecting it with the cam, a connecting device applicable to any of such plurality of places and in one or another of the cam tracks of the cam, and a guide carrier for supporting and guiding the thread guide, whereby the thread guide can be used at different times in winding material into different forms.

1,353,476. YARN-TENSION DEVICE. FRANK ASHWORTH HOLT, Rochdale, and GRINDROD KERSHAW, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Nov. 6, 1917. Serial No. 200,570. 8 Claims. (Cl. 28—20.)



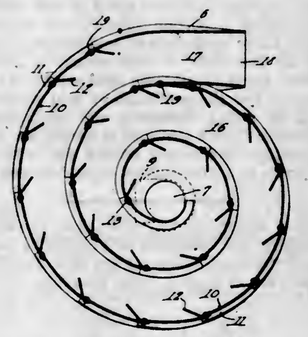
1. In a tension device of the character described, a revoluble disk arranged to present to yarn led through the tension device a marginal part to deflect and to be subject to pressure of yarn, and having yarn engaging means of unsymmetrical form in that marginal part.

1,353,477. APPARATUS FOR MAKING TOBACCO-POUCHES. FRANK FRASER JAMIESON, Montreal, Quebec, Canada, assignor to Mechanical Rubber Company, a Corporation of New Jersey. Filed Jan. 9, 1919. Serial No. 270,299. 4 Claims. (Cl. 18—42.)



1. A mold for making pouches, comprising two separable mold members and an intermediate core member, there being a seating surface between the core member and one of the mold members for forming the opening in the pouch and forming a support for the core member, guiding means on said last mentioned members for guiding them in their movement toward each other to prevent displacement of the rubber when seating the core, and other means for centering one mold member with relation to the other mold member.

1,353,478. MUFFLER. OSCAR S. JEFFRIES, Sr., Philadelphia, Pa., assignor of one-half to George W. Kirk, Philadelphia, Pa. Filed Sept. 9, 1919. Serial No. 322,712. 4 Claims. (Cl. 137—160.)

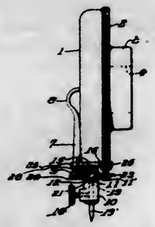


1. A muffler having side walls and a plurality of sectional units arranged in a circular row to provide a tortuous passage, said sectional units being provided with tongues extending into said tortuous passage.

1,353,479. SOUND BOX FOR SOUND RECORDING AND REPRODUCING MACHINES. ELDRIDGE R. JOHNSON, Merion, Pa., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Nov. 12, 1917. Serial No. 201,627. 10 Claims. (Cl. 274—35.)

1. In a sound box, the combination of a stylus bar, a support therefor, pivot connections intermediate of the stylus bar and support, for mounting the stylus bar to

oscillate about a fixed pivotal axis, and arc-shaped springs each secured to the stylus bar and the support, the springs being arranged transversely to and being respectively curved oppositely around the said pivotal axis of the stylus bar.



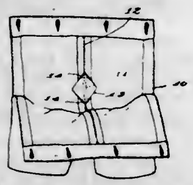
2. In a sound box, the combination of a casing, a stylus bar, a bearing on said casing for said stylus bar, springs attached to said stylus bar and each having a portion curved around the axis of oscillation of said stylus bar, and means to fixedly hold the free ends of said springs in different positions to vary the tension of said stylus bar, and through said springs to hold said stylus bar on said bearing.

3. In a sound box, the combination of a casing, a stylus bar, a bearing on said casing for said stylus bar, a pair of springs attached to said stylus bar and each having a portion spirally curved around the axis of oscillation of said stylus bar in opposite directions respectively, and means to fixedly hold the free ends of said springs in different positions to vary the tension of said springs and said stylus bar, and through said springs to hold said stylus bar on said bearing.

4. In a sound box, the combination of a casing, a diaphragm, a stylus bar, open sided bearings in which said stylus bar is mounted, a pair of oppositely disposed spiral springs each being attached to said stylus bar and being curved around the axis of oscillation of said stylus bar in opposite directions respectively, means for securing said springs to said casing to impose a tension on said stylus bar and to hold said stylus bar in said bearings.

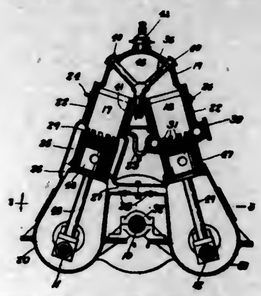
5. In a sound box, the combination of a casing, a stylus bar, a bearing on said casing for said stylus bar, a pair of oppositely disposed springs secured to said stylus bar and each comprising a portion substantially spirally curved about the axis of oscillation of said stylus bar, and means to hold the free ends of said springs in different relatively fixed positions whereby said stylus bar is held on said bearing, and the oscillation of said stylus bar effects substantially radial distention and contraction of said curved portions about said axis of oscillation, and changes in form and position of said springs, due to the oscillation of said stylus bar, are confined to said curved portions.

1,353,480. BOY'S PANTS. GLADYS L. KIRKPATRICK, Greensburg, Ind., assignor of one-half to John E. Robbins, of Greensburg, Ind. Filed Mar. 19, 1920. Serial No. 367,172. 4 Claims. (Cl. 2—122.)



1. In boys' pants, the combination with the pants having the usual front opening, of a separate closing piece of fabric located behind such opening and stitched to the pants body above and below the opening only and unattached between such stitches.

1,353,481. INTERNAL-COMBUSTION ENGINE. CARL H. KNUDSEN, Brooklyn, N. Y. Filed May 7, 1919. Serial No. 295,385. 10 Claims. (Cl. 123—53.)



1. An engine of the class described comprising oppositely arranged cylinders, a cylinder head connected with the tops of said cylinders and placing the same in communication through a combustion chamber, crank cases at the bottom of each of said cylinders, a main shaft mounted centrally of and between the crank cases, crank shafts at the opposite sides of said main shaft and adapted to pass through and operate in said crank cases and geared in connection with the main shaft, and a Y-shaped hot tube construction mounted in the combustion chamber of the cylinder head.

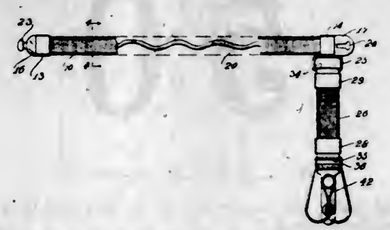
1,353,482. MERCURIAL BAROMETER. ARNDT M. KRAUSE, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed May 23, 1918. Serial No. 236,078. 3 Claims. (Cl. 73—4.)



1. A mercurial barometer comprising a column, a collar on the column adjacent the lower end thereof and having a threaded portion, a shield on the collar surrounding said threaded portion, a cistern inclosing the lower end of the column, an annular member supporting said cistern and adjustably mounted on the threaded portion of the collar within said shield, and a protecting shell on the lower portion of the cistern coöperating with the shield to inclose and protect the cistern.

1,353,483. GARTER. KARL LEINS, New York, N. Y., assignor of one-third to Arthur Leins and one-third to Frank Reuther, New York, N. Y. Filed Apr. 3, 1920. Serial No. 370,932. 7 Claims. (Cl. 241—6.)

1. A garter comprising in combination, a longitudinal spring member made of an oval-shaped helical spring, box-like receivers housing the ends of said springs, a female and a male locking plate projecting with their reduced ends into said receivers, a stop-tape connecting said locking plates, a buckle secured to the one receiver housing the female locking plate, a depending shorter spring member attached to said buckle and comprising an oval-shaped helical spring, a pair of receivers engaging its ends, looped end plates passing into the receivers and having apertures, a stop-tape fastened with its ends in said apertures, one



of the looped end plates engaging said buckle, a wire link, engaged by the other looped end plate, extending downward, a fabric engaging member attached to said link and comprising a plate member having a broadened looped end, a button at its other end, a compressible wire spring member adapted to engage said button and hinged at the looped end housing the link portion not engaged by said other looped end plates.

1,353,484. VEGETABLE-CUTTER. JOHN LOEFFLER, St. Louis, Mo. Filed June 28, 1920. Serial No. 392,404. 1 Claim. (Cl. 146—7.)



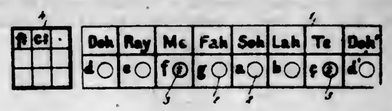
In a vegetable-cutter, a cutting-knife; a movable bottom-member, a fixed bottom member which carries said cutting-knife; a cross-bar fixed beneath said movable bottom member's inner end; rectangular comb-seat brackets fixed to the inner end of said movable bottom member, with their vertical arms arranged to form comb-seats thereat; a slitting-comb adapted to be supported in said comb-seats and thumb-screws threaded through said cross-bar, and provided with heads and reduced journals at their upper ends, which permit said thumb-screws to rotate, and at the same time connect said comb-seat brackets to said cross-bar, to positively move said brackets and said cutting-knife up and down.

1,353,485. SAFETY-RAZOR-BLADE SHARPENER. ALBERT MCGALL, New York, N. Y., assignor to Tubal Corporation, New York, N. Y., a Corporation of New York. Filed July 19, 1918. Serial No. 245,648. Renewed Feb. 9, 1920. Serial No. 357,347. 4 Claims. (Cl. 29—83.)



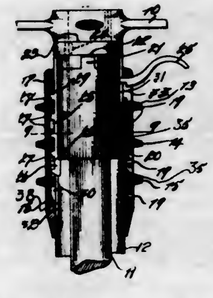
1. A blade sharpener comprising sharpening elements having opposed curved surfaces and spring means for normally holding said sharpening elements in engagement with each other and adapted to permit said sharpening elements to be forced away from each other during the sharpening operation.

1,353,486. MUSIC-CHART. ELIZABETH MCOUAT, New York, N. Y. Filed July 17, 1919. Serial No. 311,445. 1 Claim. (Cl. 84—85.)



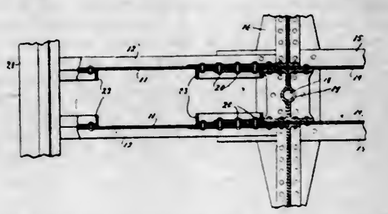
A plurality of music charts, each bearing two registering series of fixed characters representing the notes of a scale; one series corresponding to the white keys of a piano up from any desired keynote; the other series giving the syllables of the diatonic scale from Doh; and, markers attachable to the charts to indicate a change of pitch of notes of the first-mentioned series; whereby the two series may be made to indicate the same scale.

1,353,487. STEERING-WHEEL LOCK FOR MOTOR-VEHICLES. PETER D. MASSOLINE, Jersey City, N. J., and LOUIS RONCA, New York, N. Y. Filed Dec. 16, 1919. Serial No. 345,304. 3 Claims. (Cl. 70—53.)



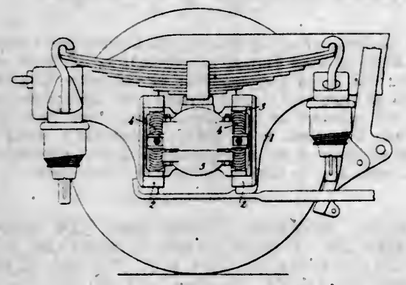
1. In a vehicle lock, a steering post, an annular locking bolt slidable upon said post, tumblers surrounding said bolt to control the movement of said bolt, means mounted upon said bolt for abutting said tumblers adapted to resist the movement of said bolt, passages in said tumblers for said abutting means at a predetermined position of said tumblers, a housing, said housing and bolt provided with clutch faces whereby upon a predetermined movement of said bolt said steering post is locked from rotation.

1,353,488. DRAFT-ARM. WILLIAM N. OEHM, Michigan City, Ind. Filed Aug. 12, 1919. Serial No. 317,003. 1 Claim. (Cl. 105—420.)



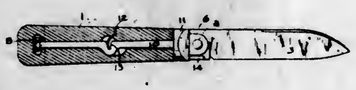
In a railway car, in combination, a center sill projecting beyond the bolster, bolster filler blocks between said sills and bolster members having side and end flanges exterior of said sills, a draft arm nesting with the projecting end of the sill and abutting against one of said members, a buffing block interior of said projecting end and abutting against one of said filler blocks, and rivets securing said sill, draft arm and buffing blocks together, the web of the draft arm being thickened at its area of attachment.

1,353,489. JOURNAL-BOX FOR RAILWAY-CARRIAGES AND THE LIKE. NILS ARVID PALMGREN, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed May 23, 1919. Serial No. 299,343. 6 Claims. (Cl. 105—222.)



1. The combination with a journal box for railway carriages and the like, of springs attached to the sides of the box, and slides attached to said springs and bearing against the frame of the carriage.

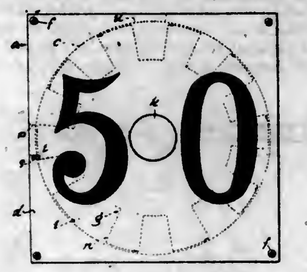
1,353,490. SAFETY POCKET-KNIFE. JOHN PANTALEK, Modesto, Calif. Filed Aug. 19, 1915. Serial No. 46,241. 1 Claim. (Cl. 30—10.)



In a knife, handle sections each having projecting lining plates, a blade having a shank, a pivot extending through the propecting portions of the lining plates and through the shank of the blade whereby the blade and handle sections are independently pivoted, one of said handle sections having a longitudinally extending groove on its face back of its lining plate, a block having a bolt slidable in the slot, and the said slotted handle having a recess with which the slot merges and into which the bolt projects, a stationary staple carried by the other handle section and projecting into the recess when the handle sections are together to be engaged by the bolt, the body section having the slot also having recesses between the ends of the slot at opposite sides of the slot, a spring having an end anchored in the slotted handle section projecting into one of the recesses and engaging the bolt to retract it, the said spring being held seated by the lining plate, the locking bolt having a shoulder portion slidable in the other recess to prevent dislodgment of the bolt from the handle section, and a lug on each edge of the blade shank, said lugs projecting oppositely and adapted to have their ends bear against the ends of the handle sections when the blade is open or closed.

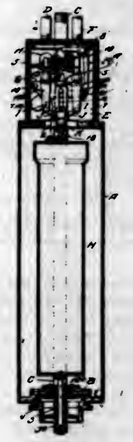
1,353,491. EDUCATIONAL GAME. JOHN F. PATTERSON, Los Angeles, Calif. Filed Feb. 4, 1919. Serial No. 275,027. 2 Claims. (Cl. 46—56.)

1. A game apparatus comprising a rectangular casing; a circular recess within said casing; an aperture in the edge of said casing and communicating with said recess; a spring button in the casing at the edge of the aperture; a revoluble disk in said recess; radial abutments on the periphery of said disk; characters on the peripheral faces of said abutments; means on the abutments to engage the spring button on the casing adapted to check the revolution of the disk when under slow motion; removable sides for the casing; and a handle on the outside



of said casing and connected with the said disk by which it may be revolved.

1,353,492. PUMP. THEODORE PETERS, Ferdinand, Ind., assignor to The Pet-Son Pump Company, Ferdinand, Ind., a Corporation of Indiana. Filed Oct. 20, 1919. Serial No. 331,789. 11 Claims. (Cl. 103—8.)

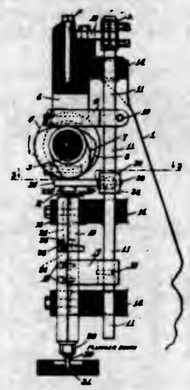


1. A pump, comprising a cylinder that is adapted to be submerged in a body of liquid, a valve that opens when said cylinder is submerged and thus permits liquid to enter said cylinder, an air inlet valve for admitting air to said cylinder so as to close the liquid valve and force the liquid out of said cylinder, an air exhaust valve for permitting the air to escape from said cylinder, an operating mechanism for said air valves comprising an oscillating member that carries said valves, a buoyant actuating member in the cylinder, and a connection between said actuating member and said oscillating valve operating member comprising a spring arranged so that the energy of same is exerted on said valve operating member to move it so as to close one air valve and open the other air valve.

1,353,493. EYELET-MACHINE. WILLIAM D. PIERSON, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 17, 1919. Serial No. 311,514. 8 Claims. (Cl. 74—1.)

1. In a machine of the character described, the combination with the pushdown cam and the relatively longitudinally adjustable plunger and bumper, the bumper having a head located above the plunger and below the cam; of a buffer interposed between the cam and the

bumper head; a support for the buffer; a lifter rod connected to move with the plunger; a lifting member and a lifting cam therefor, the lifting member and buffer being fixed to the lifter rod and whereby the buffer may



engage on the top of the bumper head without being attached thereto; the buffer and its support having a loose joint to permit automatic compensation for adjustment of plunger and bumper.

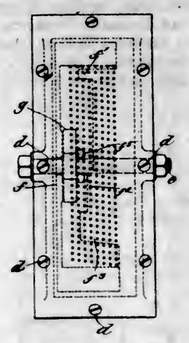
1,353,494. ATTACHMENT FOR DIGGING IMPLEMENTS. ROBERT RISCH, Milwaukee, Wis. Filed Aug. 16, 1919. Serial No. 317,972. 1 Claim. (Cl. 254—131.5.)



An attachment for digging implements comprising a bracket consisting of a strip of metal having a horizontal portion and an upwardly and inwardly inclined portion, reinforced ends on said bracket, means securing the upper end of said bracket to the handle of the digging implement, a plate having a top channel portion engageable over the top of the digging implement and having a cutaway portion for the handle of said implement, and common means for securing said plate and the lower end of said bracket to the implement.

1,353,495. SPRAY-NOZZLE. EUGENE ROBERTS, Salt Lake City, Utah, assignor to Sugar Centrifugal Discharger Company, Salt Lake City, Utah, a Corporation of Utah. Filed Sept. 29, 1917. Serial No. 193,879. 6 Claims. (Cl. 299—144.)

5. A spray nozzle for washing sugar or the like embracing in its construction a hollow casing having an elongated convexly curved exterior wall provided with longitudinal rows of diverging orifices forming a spray plate for delivering a fan-shaped spray, an elongated cut off plate formed to fit snugly against the inside face of said spray plate and shiftable transversely of its length to cut off successive longitudinal rows of orifices and



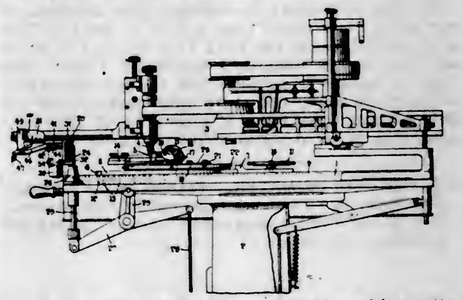
thereby narrow the width of the spray delivered while preserving its fan shape, substantially as described.

1,353,496. AUTOMOBILE-WRENCH COMBINATION. HEYMAN ROSENBERG, New York, N. Y. Filed Aug. 14, 1919. Serial No. 317,417. 3 Claims. (Cl. 7—15.)



1. The combination of a casing having an opening in the side thereof, a plurality of slidably mounted tools within the casing, each tool being provided with a notch located in line with said opening, for the insertion of the fingers to extend said tools.

1,353,497. ATTACHMENT FOR ROUTING-MACHINES. VERNON ROYLE, Paterson, N. J. Filed Dec. 13, 1916. Serial No. 136,706. 9 Claims. (Cl. 90—15.)

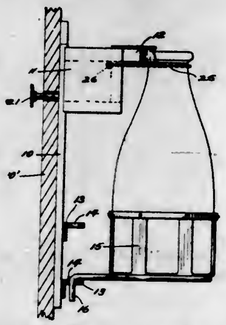


1. In a routing machine, the combination with a cutter supporting bar, a cutter carried thereby and a vertically movable guide rail, of a device having a slidable engagement with said rail and adapted to be clamped thereto, and means coöperating with said device and arranged to engage said bar for freely moving it a limited distance in the device to enable the cutter to operate in predetermined places on the work presented to it.

1,353,498. MILK-BOTTLE HOLDER. GEORGE R. SCHLEGEL, New Berlinville, Pa. Filed Feb. 17, 1920. Serial No. 359,335. 1 Claim. (Cl. 232—41.)

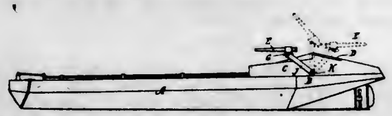
In a device of the character stated a supporting structure mounted upon the exterior of the building, means for supporting a bottle carried by said structure, a horizontally disposed open-ended barrel located within said casing, said barrel having a vertical slot in the wall

thereof, a cushioned button carried by said casing and disposed in alinement with said barrel, a notched bolt normally engaging with said button, a detent extended through said slot and normally engaging the notch of said bolt, a push-rod extended into the building interior, a bell-crank lever connecting said detent and push rod, means carried by said casing to receive the rim of a



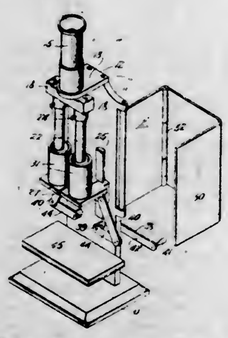
bottle and flexible means for engaging around a bottle neck said means being fixed at one end to said casing in a plane below the rim receiving means and adapted for detachable connection at its other end with said bolt whereby upon withdrawal of said detent said cushioned button serves to eject said bolt.

1,353,499. GUN-MOUNT FOR BOATS. WILLIAM P. SHEARER, New York, N. Y., assignor to International Torpedo Boat Corporation, Wilmington, Del., a Corporation of Delaware. Filed Jan. 29, 1919. Serial No. 273,852. 1 Claim. (Cl. 89—37.)



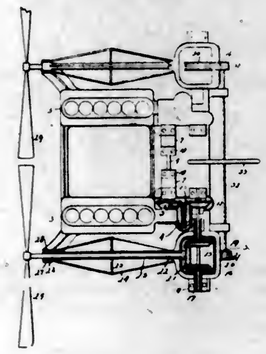
In combination with a boat having a cabin with a hatchway in the top a gun, a cross arm G on which the gun is vertically pivoted, and arms J on the ends of which said cross-bar is trunnioned and which extend down along the outside of the cabin and a transverse shaft K carrying said arms, said shaft being located below the deck and said arms being of such a length that their ends swing in an arc close to the top of the deck.

1,353,500. COLORIMETER. FERDINAND G. SPINDLER, New York, N. Y., assignor to Alfred Traeger, Weehawken, N. J. Filed Aug. 4, 1919. Serial No. 315,260. 3 Claims. (Cl. 88—14.)



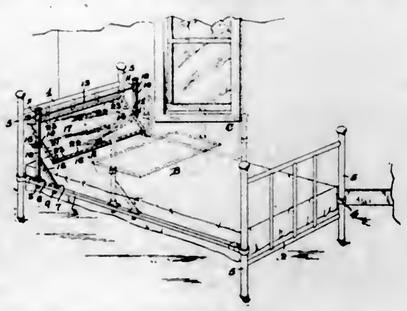
3. In a colorimeter, the combination with a base, of a standard mounted thereupon, dovetailed guideways on the front side of the standard, platforms having dovetail sockets that slidably receive the guideways, rock shafts journaled in the lower portion of the standard and having crank arms linked to the platforms, optical mechanism mounted on the upper end of the standard for observing materials carried by the platforms, and a hood for partly or wholly inclosing the platforms and comprising hingedly connected walls, one of which is hinged to one side of the standard.

1,353,501. FLYING-MACHINE. FRANK VOGELZANG, Rock Valley, Iowa. Filed June 1, 1920. Serial No. 385,524. 8 Claims. (Cl. 244—14.)



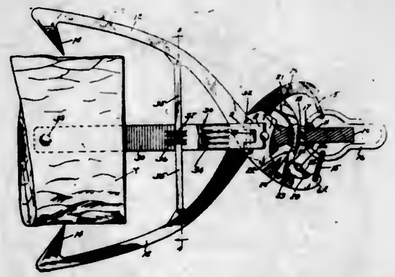
2. In a flying machine, a body, a pair of engines mounted upon the forward portion of said body, swinging gear boxes, counter-shafts passing through the axis of said gear boxes, means for transmitting power from the engines to the countershafts, casings projecting from the gear boxes, propeller shafts journaled in said casings, means for transmitting power from the countershafts to the propeller shafts, and means for swinging the casing and propeller shafts carried thereby to different angles relative to the body of the machine.

1,353,502. COMBINATION BED ATTACHMENT. JOSEPH W. WEISMANTEL, Newark, N. J. Filed July 10, 1919. Serial No. 309,908. 2 Claims. (Cl. 5—41.)



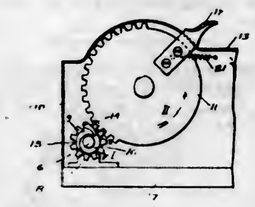
1. In a bed-attachment of the character set forth, in combination with the side-rails of a bedstead, slides mounted upon said rails, means for securing said slides in fixed positions to said rails, upright posts extending from said slides, sleeves movably mounted upon said posts, means for securing said sleeves in their adjusted positions upon said posts, a covered frame connected with and pivotally mounted between said sleeves, a second set of slides mounted upon said rails, means for securing said last-mentioned slides to said rails, and stay-rods between said posts and said last-mentioned slides.

1,353,503. LOG-SKIDDING GRAPPLE. HANS ANDERSEN, Nymore, Minn. Filed June 9, 1919. Serial No. 302,789. 10 Claims. (Cl. 294—82.)



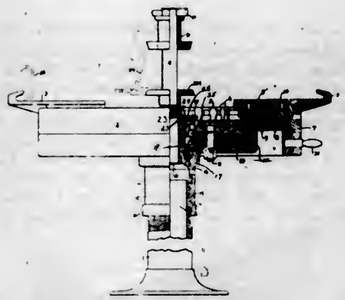
1. A log skidding device comprising a rigid head, a pair of cooperating grapple levers intermediately pivoted to said head, and a relatively wide skid bar pivoted at its forward end to the head for vertical swinging movement in respect to the grapple levers.

1,353,504. CALCULATING-MACHINE. WICTOR OSKAR JULIUS ANDERSSON, Malmö, Sweden. Filed Aug. 16, 1918. Serial No. 250,158. 8 Claims. (Cl. 235—144.)



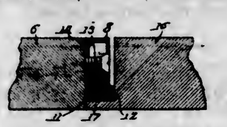
1. In a calculating machine, a setting mechanism comprising a plurality of setting disks, a plurality of disks for adjusting said setting disks to indicate certain values, and means for simultaneously returning all of said disks to normal position after they have been adjusted.

1,353,505. TRUING-STAND. CHARLES S. ASH, Geneva, N. Y. Filed Aug. 10, 1918. Serial No. 249,281. 9 Claims. (Cl. 29—87.)



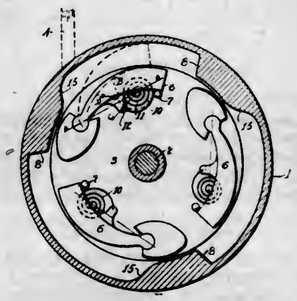
1. In a device for concentrically holding a wheel hub and rim, in combination, a rotatable support having a plurality of symmetrically arranged clamping jaws to grip a wheel rim, and an axial support rotatable independently of said first mentioned support and having means to grip the wheel hub.

1,353,506. DOOR-BUMPER. SETH B. ATWOOD, Rockford, Ill. Filed June 19, 1920. Serial No. 390,205. 3 Claims. (Cl. 16—77.)



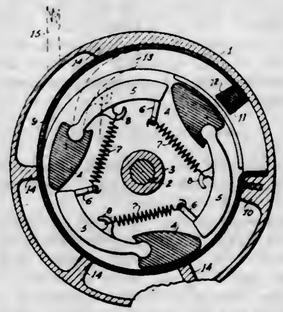
1. A door bumper, comprising a channel shaped member having one flange cut and bent inwardly on opposite sides of said cut to provide a pair of transversely extending guides within the channel, a resilient bumper block positioned between said guides and projecting outwardly between the plane of said flange, a plate disposed against the inner face of said block, and means for clamping said block between said plate and the transverse web of said member.

1,353,507. TROLLEY-TENDER. REX G. AVERILL, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 5, 1918. Serial No. 248,323. 7 Claims. (Cl. 191—95.)



1. In a trolley tender the combination with a case, a reel rotatably mounted therein, a dog pivotally supported by the reel and normally out of engagement with the case but movable into operative engagement therewith, of a single operating means to maintain the dog in one position when normally out of engagement with the case and to maintain the dog in another position when in operative engagement with the case, and means to move the dog into normal position after engaging the case.

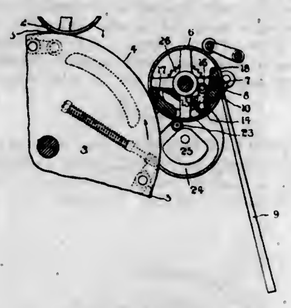
1,353,508. TROLLEY-TENDER. REX G. AVERILL, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 5, 1918. Serial No. 248,324. 11 Claims. (Cl. 191—95.)



10. A trolley tender comprising in combination a casing, a drum in the casing, a spring normally operating to

automatically turn the drum to wind a rope thereon and to be automatically wound when the rope unwinds from the drum, and frictional means directly engaging the rotating parts to retard the rotation thereof.

1,353,509. SHEET-DELIVERY MECHANISM FOR PRINTING-PRESSES. HOWARD M. BARBER, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 30, 1918. Serial No. 260,361. 4 Claims. (Cl. 270—19.)



1. An impression cylinder having a plurality of impression surfaces, a rotary delivery carrier arranged to take successive sheets directly from the impression cylinder surfaces, to collect said sheets, and a fly for taking the so collected sheets directly from the rotary carrier and deliver them.

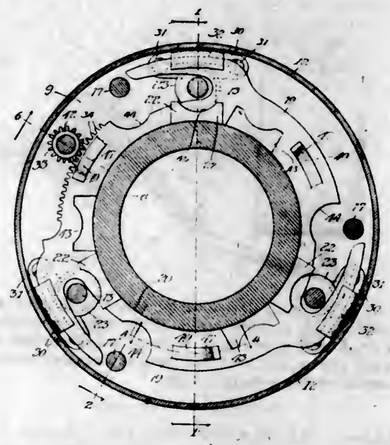
1,353,510. ART OF MANUFACTURING SLABS OR THE LIKE OF CEMENT OR LIKE MATERIAL. LEROY BAUMGARTL, Chicago, Ill. Original application filed July 29, 1916, Serial No. 112,007. Divided and this application filed Nov. 7, 1916. Serial No. 129,981. 9 Claims. (Cl. 154—2.)



4. The method of manufacturing slabs, or the like, of cement, or the like material, which consists in feeding to a movable support, a layer of cement, or the like material, compressing the material on said support by a series of operations and cutting upwardly into said layer as the process of compressing the material progresses when the same is being compressed.

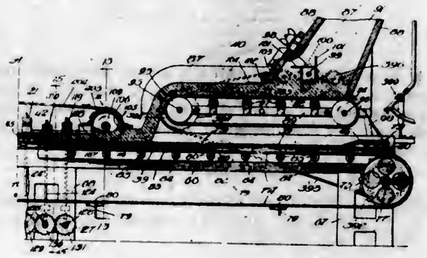
1,353,511. DEMOUNTABLE WHEEL. LEROY BAUMGARTL, Chicago, Ill. Filed Mar. 27, 1917. Serial No. 157,781. 8 Claims. (Cl. 21—31.)

1. In a structure of the character set forth, the combination of an inner hub-member and an outer hub-member, a pin carried by one of said members and extending lengthwise of said hub, the other of said members containing a socket, said pin having a shouldered portion and extending at its end into said socket for locking said hub-members against relative rotation, and cam means adjustably supported on the one of said hub-members containing said socket, for coöperation with said shouldered portion and operating to draw said hub-members together



and hold them against longitudinal separation, said socket and shouldered portion being located at the same side of said cam means.

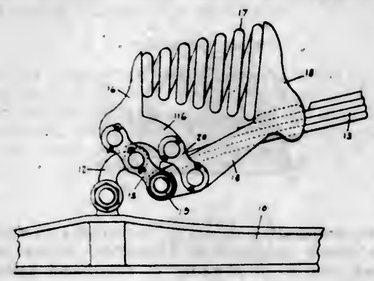
1,353,512. ART OF MANUFACTURING SLABS OR THE LIKE OF CEMENT OR LIKE MATERIAL. LEROY BAUMGARTL, Chicago, Ill. Filed Dec. 30, 1918. Serial No. 268,851. 73 Claims. (Cl. 154—1.)



8. In a machine of the character set forth, the combination of means for advancing a support upon which the slab is to be formed, means for supplying cement, or the like, to said support, means for compacting the material on said support, roller means for pressing into said material reinforcement applied to the upper surface thereof, means for kneading the upper surface of said material to embed said reinforcement, a roller beyond said kneading means for preventing displacement of the reinforcement in said material, and means for applying a second layer of cement, or the like, to the first layer thereof with the reinforcement therein.

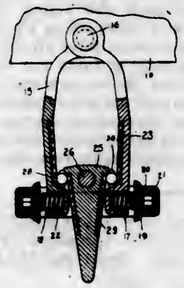
1,353,513. SHOCK-ABSORBER. GEORGE G. F. BOSWELL, Indianapolis, Ind. Filed July 21, 1919. Serial No. 312,283. 7 Claims. (Cl. 267—17.)

1. A shock absorber including a main spring, an auxiliary spring, means in fixed relation to the main spring for furnishing a seat for one end of the auxiliary spring, a lever having a seat for the other end of the auxiliary spring, means for furnishing a movable fulcrum for the lever, and means controlled by the movement of the main spring for simultaneously changing the position of the



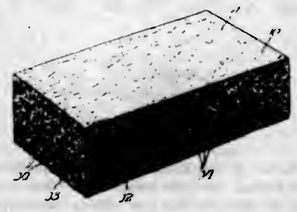
fulcrum and moving said lever on its fulcrum in order to maintain the seats for the auxiliary spring parallel with each other.

1,353,514. SHOCK-ABSORBER. GEORGE G. F. BOSWELL, Indianapolis, Ind. Filed Aug. 16, 1919. Serial No. 317,909. 5 Claims. (Cl. 267—9.)



1. The combination with part of a frame of an automobile, and a spring for supporting the same of a shock absorber having an upper member mounted on the frame of the automobile and the lower member secured to the spring, said two shock absorber members being arranged so as to reciprocate with relation to each other, the adjacent faces of said upper and lower shock absorber members being provided with a series of notches, and friction rollers operating between said members and having radial projections for engaging said notches.

1,353,515. BRICK. FRANK W. BUTTERWORTH, Danville, Ill., assignor to Western Brick Company, Danville, Ill., a Limited Copartnership. Original application filed Aug. 19, 1915, Serial No. 46,236. Divided and this application filed Mar. 11, 1916. Serial No. 83,531. 4 Claims. (Cl. 72—37.)



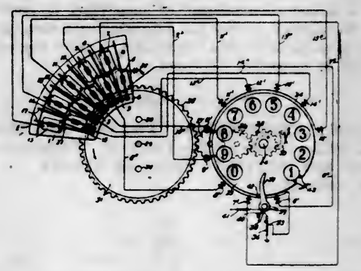
1. A brick or the like having an entire surface provided with closely spaced, short and narrow indentations disposed in substantially parallel lines and all extending in one and the same direction, whereby the appearance of the said surface is the same in whatever position the brick may be laid.

1,353,516. ILLUMINATED SIGN. EDWARD P. CHERRY, Dayton, Ohio, assignor of one-half to Norman N. Cherry, Springfield, Ohio. Filed Apr. 23, 1920. Serial No. 375,920. 2 Claims. (Cl. 40—133.)



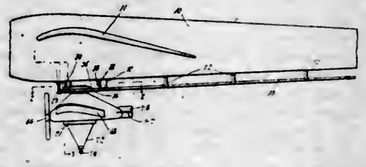
1. An illuminable sign comprising a casing having a countersunk portion in its face following the outline of a letter or character, the side walls of said countersunk portion being at approximately right angles to the background portion of the latter, and a lighting medium within said casing, whose rays shine through a series of openings circumferentially disposed in the side walls of the countersunk portion for the purpose specified.

1,353,517. IMPULSE-CONTROLLING SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 19, 1918. Serial No. 250,510. 8 Claims. (Cl. 179—90.)



1. An impulse transmitting mechanism including a rotatable perforated record, a contact element movable into and out of the perforations in said record, a second contact element interposed between said record and the first named contact element, and an impulse circuit controlled by said contact elements when the first named element moves into and out of the perforations in said record.

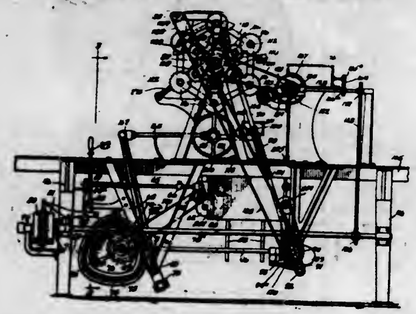
1,353,518. BOMB-DROPPER. WALTER CHMIELARSKI, Gary, Ind. Filed Apr. 17, 1918. Serial No. 229,023. 3 Claims. (Cl. 244—1.)



1. In a bomb carrier, the combination with a flying machine of rigid bars secured to the machine, a pair of

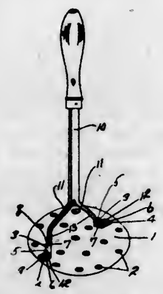
parallel spaced sectional rails extended from the lower side of said flying machine, the front sections of said rails being hingedly engaged by said bars, means for normally holding said front sections of rails in alinement with the stationary sections, and for releasing said hinged sections, bombs slidable on said rails, and a handle on said means for releasing said bombs at any desired interval.

1,353,519. LABELING-MACHINE. ARTHUR S. COLVER and HENRY E. BELLM, Chicago, Ill., assignors of one-third to Charles C. Colver, Chicago, Ill. Filed Nov. 6, 1916. Serial No. 125,879. 28 Claims. (Cl. 271—28.)



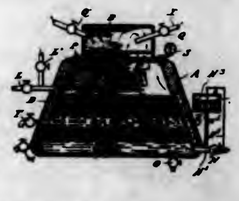
4. A labeling machine embodying means for holding a supply of tempered labels, a disk like separator having a laterally deflected hornlike portion adapted to pass between the outermost label and the next adjacent label to separate the former from the latter, and means embodying a heater adapted to contact the outermost label and form a blister of a portion of such label to receive said horn like portion, means for actuating said disk separator, and means for actuating the heater to move the same into and out of operative positions.

1,353,520. COMBINATION POTATO MASHER AND BEATER. CARL C. DEFENBAUGH, Winnemucca, Nev. Filed Mar. 31, 1920. Serial No. 370,118. 2 Claims. (Cl. 146—15.)



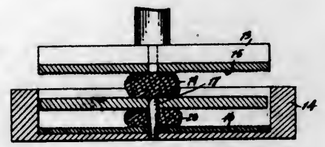
1. A potato masher and beater comprising a perforate base plate; two lock lugs permanently mounted at diametrically opposite points on the top of the base plate; a transverse hole and connected longitudinal groove and transverse groove formed on the inner face of each lock lug, as handle engaging means; and a spring forked handle and an outstanding finger on each prong thereof, said fingers being adapted to engage the transverse holes, and the prongs to engage the longitudinal and transverse grooves, of the lock lugs, as means for connecting the handle to the base plate and for holding said elements in perpendicular or horizontal relation to one another.

1,353,521. EVAPORATING AND DISTILLING APPARATUS. ARTURO DUODO, Genoa, Italy. Filed Nov. 16, 1917. Serial No. 202,406. 2 Claims. (Cl. 203—5.)



1. An evaporating apparatus, comprising in combination a closed receptacle of trapezoidal section having rounded corners; a plurality of superposed groups of heating tubes within said receptacle; headers to which the ends of all the tubes are connected, at least one header having the adjacent ends of two groups of tubes opening into it, so as to provide communication between said groups and thereby enable a forward and backward flow of steam through the groups; a source of steam supply connected to one header for passage therefrom directly into the uppermost group of tubes, another of the headers being provided with a steam outlet; supply means for the liquid to be evaporated communicating with the interior of the receptacle and acting to maintain the level of the liquid at a point where all of the tubes excepting those of the topmost layer are submerged, whereby the said topmost layer of tubes will be surrounded by the steam arising from the evaporating liquid and so as to cause superheating of the steam passing through that layer; a steam dome mounted on the top of the box and provided with a steam outlet; and a filter in said dome to separate out the entrained liquid from the steam.

1,353,522. METHOD OF MANUFACTURING SOUND-RECORDS. VICTOR H. EMERSON, New York, N. Y. Filed Jan. 21, 1920. Serial No. 352,942. 4 Claims. (Cl. 18—48.4.)



4. The method of forming a sound record disk, consisting in compressing against a relatively hardened cool core or backing member, by means of a heated die and matrix, a ball of heated plastic material adapted to be spread over and evenly resisted by the hardened disk.

1,353,523. DOOR-RETAINER. THOMAS PETER EUSTEGE, Wellington, New Zealand. Filed Mar. 26, 1920. Serial No. 369,032. 4 Claims. (Cl. 292—275.)



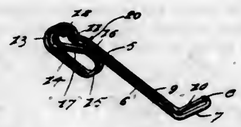
1. In a device of the kind described, a member pivoted to the door casing, another member pivoted to the door, one member slidable within the other, means within one member to retain an operating pin in position therein and means co-acting with said pin and said members whereby upon the pin being operated in one direction varying degrees of spring tension will be exerted between the two members, but when the pin is turned in the opposite direction the two members will be locked together at any desired position, substantially as described.

1,353,524. MACHINE FOR CUTTING VENTS IN AUTOMOBILE-HOODS. ISAAC FLEMING and HUGH S. HILL, Los Angeles, Calif., assignors, by mesne assignments, to Joseph J. Mathe, Los Angeles, Calif. Filed Aug. 6, 1919. Serial No. 315,666. 9 Claims. (Cl. 113—42.)



1. A machine of the character described, including a bed plate, a swinging arm arranged over the bed plate and pivotally connected at one end thereto, an operating lever pivotally connected to the bed plate and having an operative connection with the swinging arm, a coöperating cutting bar upon the bed plate, and a separate die block arranged upon the bed plate and fitted against the cutting bar, the edge portion of the die block adjacent the cutting bar being recessed to receive the cutting and shaping element and coöperate therewith to form a louver at one side of the slit.

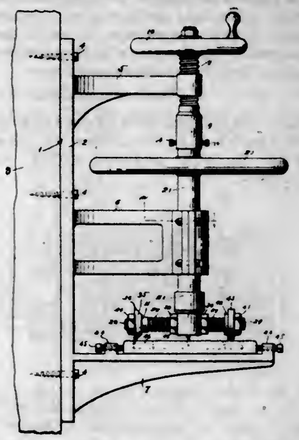
1,353,525. SAFETY-CATCH FOR CUFF-LINKS. CLARENCE E. FORSYTHE, Milwaukee, Wis. Filed May 11, 1917. Serial No. 167,959. Renewed Aug. 9, 1919. Serial No. 316,488. 3 Claims. (Cl. 24—90.5.)



1. A safety catch for cuff buttons composed of a single piece of material including a straight portion, said piece of material bent to form a substantially semi-circular portion at one end of said straight portion, and further bent to form second and third semi-circular portions, said third semi-circular portion adapted for engagement with the bar of a cuff button, and being connected to said second semi-circular portion by an angled and straight portion, said last named straight portion adapted to engage said first named straight portion for forming a closure for the mouth of the space between the angled portion and the body portion for preventing the accidental removal of the catch from the bar of a cuff button.

1,353,526. ROTARY SHEET-METAL CUTTER. FRED FRENGLE, Cotati, Calif. Filed Feb. 17, 1920. Serial No. 359,321. 2 Claims. (Cl. 164—71.)

1. A rotary sheet metal cutter, comprising a frame having a pair of spaced apart outstanding brackets disposed in the same vertical plane, a vertically disposed screw carried by the upper one of said brackets, a vertically disposed shaft rotatably and slidably carried by the other of said brackets, said screw and shaft being disposed in axial alinement with each other and having one end pivotally connected together, a screw-threaded cross-bar carried by the free end of said shaft and having its ends extending at substantially right angles from opposite sides of the shaft, said cross-bar movable longitudinally in either direction by rotating it relative to the shaft, nuts on said cross-bar engageable with opposite sides of the shaft for normally preventing movement thereof relative to said shaft, a rotary cutting disk on one end of the cross-bar, a roller on the other end



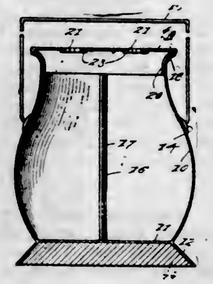
thereof, a die underlying said cross-bar and coöperating therewith for cutting circular openings in sheet metal, and means for supporting said die.

1,353,527. MOTION-PICTURE SHUTTER. MCCLELLAN C. FULLENLOVE, Louisville, Ky., assignor to Perfect Projection Shutter Company, Inc., Louisville, Ky., a Corporation of Kentucky. Filed Jan. 21, 1920. Serial No. 352,930. 3 Claims. (Cl. 88—19.3.)



1. A shutter of the class described having a series of three interrupters and intervening spaces all of equal effective area, and means for rotating the shutter at a speed of two-thirds of a revolution to each cycle of operation of the film feeding mechanism.

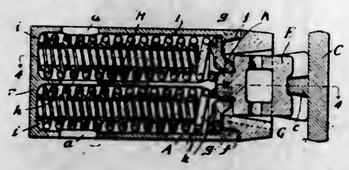
1,353,528. YARN-HOLDER. ANNA E. GAENG, Bloomingdale, N. Y. Filed June 17, 1916. Serial No. 104,200. 1 Claim. (Cl. 242—146.)



As an article of manufacture, a yarn holder comprising a receptacle having an open upper end, a weighted bottom

and vertical interior guide strips arranged in pairs, a removable partition strip engaged in said pairs of guide strips to divide said receptacle into separate compartments, a removable flanged cover for said receptacle provided with a key hole slot above each compartment from the center thereof to one edge, the large end of said slot being located above the center of the compartment, and a transporting handle for said receptacle.

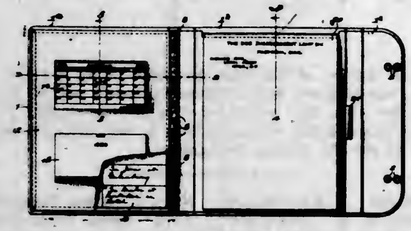
1,353,529. FRICTION DRAFT-GEAR FOR RAILWAY-CARS. RICHARD D. GALLAGHER, Jr., New York, N. Y. Filed Nov. 20, 1915. Serial No. 62,551. 6 Claims. (Cl. 213—64.)



1. A draft gear embodying a spring barrel having a plurality of longitudinally arranged partitions therein forming a series of independent spring cells, said partitions having their central portions at the forward ends cut away to form a working space for the spring plate, independent springs located in said cells, a spring plate against which the forward ends of the springs abut, a follower, and friction elements intermediate the follower and spring plate.

5. In a device of the character described, the combination with a casing of a separate friction shell, said casing and shell having coöperable slots adapted to be longitudinally alined when the casing and shell are assembled, and keys disposed within said slots, said keys being placed under shear throughout their length upon tendency of the shell and casing to shift longitudinally relatively to each other.

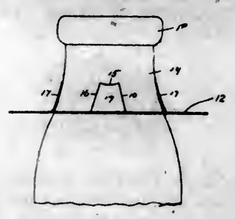
1,353,530. SALESMAN'S PORTABLE OFFICE. HENRY H. GEARY, Fostoria, Ohio. Filed Nov. 8, 1919. Serial No. 336,760. 4 Claims. (Cl. 129—15.)



1. In appliances of the kind specified, the combination of a reminder form comprising a leaf or series of leaves having spaces numbered serially for recording brief data of a project or names and addresses or other indexable data, a calendar having spaces for each day upon which reference characters may be placed corresponding to the desired number or numbers designating the spaces of said reminder which contain data regarding future engagements, projects, etc., and a pocket-file or portfolio comprising a series of pockets to receive correspondence and information briefly referred to in said reminder spaces.

1,353,531. MARKING-CARD FOR MILK-BOTTLES. RALPH G. HEARD, Boston, Mass., assignor to Tolman Print, Inc., Brockton, Mass., a Corporation of Massachusetts. Filed June 24, 1920. Serial No. 391,423. 1 Claim. (Cl. 40—2.)

An annular marking card of flexible resilient sheet material having a central opening formed to receive the beaded neck and a portion of the flaring body of a milk bottle, the margin of said opening including outer portions adapted to be seated simultaneously on the flaring body of the bottle and cause the latter to support the card in a plane substantially at right angles to the longitudinal axis of the bottle, and prevent edgewise movement of the card in any direction, substantially radial portions extending inwardly from said outer portions, and forming the opposite edges of radial tongues, and inner portions forming the free ends of said tongues, the tongues being

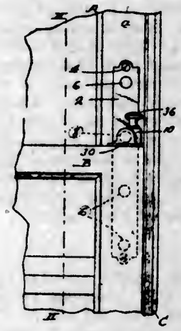


displaceable by the operation of applying the card to the bottle, and adapted to spring inward against the neck and engage the neck bead, to prevent accidental removal of the card from the bottle, the radial edges of each tongue converging, so that the tongues are wider at their junction with the body of the card than at their free ends, whereby the resistance of the sheet material to flexure at the junction of the tongues and body, and the pressure of said free ends against the neck, are increased.

1,353,532. PRODUCING COMPOUNDS OF RADIUM. HERMAN OSKAR HEDSTRÖM, Djursholm, Sweden. Filed June 21, 1919. Serial No. 305,848. 4 Claims. (Cl. 23—13.)

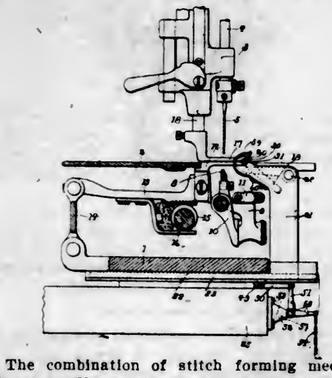
1. A method of extracting radium compounds from substances containing radium, which consists in subjecting such substances to the action of liquid sulfur dioxid.

1,353,533. BURGLAR-PROOF SASH-LOCK. LOYD L. HUDDLESTON, Kansas City, Mo. Filed Dec. 19, 1919. Serial No. 346,116. 1 Claim. (Cl. 292—142.)



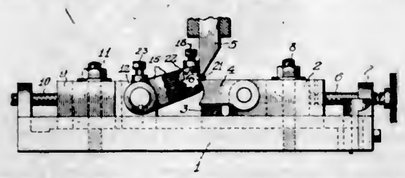
In a sash lock, a barrel having a separate bottom portion and flanges to rest on top of a window sash to which said flanges may be secured by suitable means such as screws, a pinion, journals at the ends of said pinion and rotatably mounted in the barrel, a bolt having a longitudinal recess with rack teeth to intermesh with the pinion, a circular shoulder on one of the journals and overlapping the barrel to coact with the other journal in holding the pinion in position, a knob on said circular flange to rotate the same and cause the pinion to throw the bolt in and out, and a shoulder on the bolt to engage the pinion and limit the outward movement of said bolt.

1,353,534. TRIMMING MECHANISM FOR SEWING-MACHINES. ROBERT R. HUGHES, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 2, 1916. Serial No. 118,192. 11 Claims. (Cl. 112—122.)



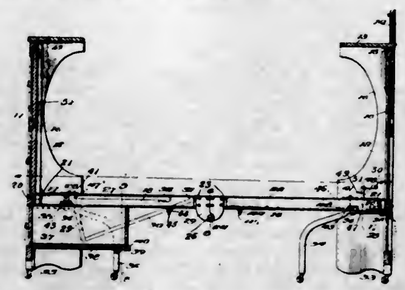
1. The combination of stitch forming mechanism including a needle, a trimming mechanism including trimming blades, and treadle controlled devices for moving both of said trimming blades bodily and horizontally toward and from the needle at the will of the operator whereby said trimming blades may be moved to inoperative position and out of range of the fabric so that the fabric may be fed to the stitching mechanism without being trimmed.

1,353,535. DEVICE FOR EXPANDING REAMERS. HARLEY H. LA VERCOMBE, Detroit, Mich. Filed Feb. 24, 1919. Serial No. 278,857. 7 Claims. (Cl. 76—1.)



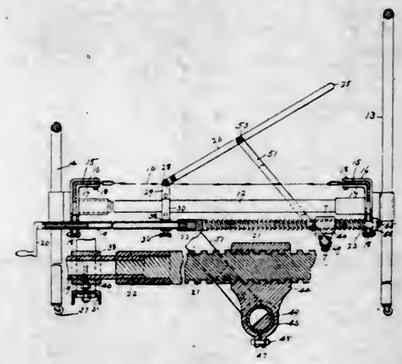
1. A reamer reforming device comprising a bed adapted to be secured on a press bed and provided with an adjustably secured anvil and with means for supporting a reamer in operative relation to the anvil so that the reamer flutes may be brought successively into operative position on the anvil, said means being adjustable to hold any sized reamer, and a punch arranged to coöperate with the anvil in treating the flutes of a positioned reamer.

1,353,536. CONVERTIBLE WARDROBE-BED. JESSE M. MCGHEE, Estancia, N. Mex. Filed Oct. 30, 1919. Serial No. 334,391. 5 Claims. (Cl. 5—52.)



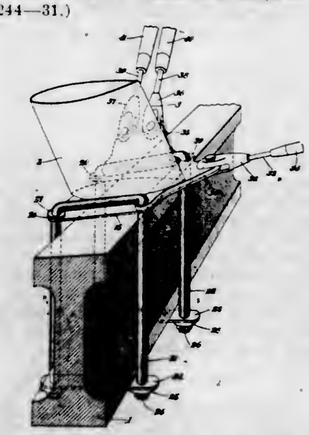
2. A convertible wardrobe bed having end sections provided with horizontal supporting frames projecting inwardly from the end sections, a pair of hingedly connected sections pivoted at their free ends to the respective end sections in position to fold down upon the horizontal frames and adapted to be supported thereby, and a manually operable device carried by one of the end sections and adapted to engage an adjacent hinge section for swinging the sections upwardly into folded position.

1,353,537. HEADREST ATTACHMENT FOR BEDS. ANGUS MACDONALD, Melrose, Mass. Filed Apr. 1, 1920. Serial No. 370,400. 5 Claims. (Cl. 5—43.)



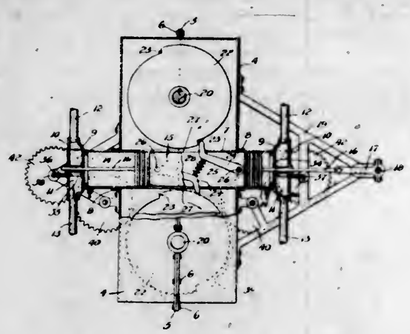
1. A head rest attachment, comprising a pair of brackets adapted to be fixed to the end bars of a spring frame, and provided with downwardly projecting portions having crank shaft bearings, a head rest composed of a frame having a transverse portion, and arms, and a resilient filling supported by said frame, ears having means for engagement with the side bars of a bed frame, and hinged to the arms of the head rest frame, a sectional crank shaft journaled in said bearings, and including a threaded section, a nut engaged with said threaded section and provided with a transverse sleeve, a rock shaft adapted to turn in said sleeve, and struts attached to said rock shaft and pivoted to the arms of the head rest frame.

1,353,538. STRUT CONSTRUCTION. GLENN D. MITCHELL, College Point, N. Y., assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y., a Corporation of New York. Filed Mar. 21, 1917. Serial No. 156,289. 4 Claims. (Cl. 244—31.)



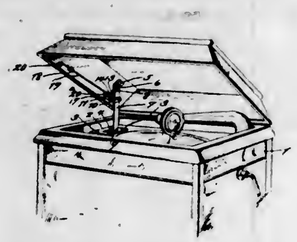
1. In combination, a hollow strut, a fitting lining one end thereof, a base member extending within said end, and a connection between said fitting and said base member, said connection being within the interior of said strut.

1,353,539. RECIPROCATING ENGINE. EDWARD P. PALMER, Minneapolis, Minn. Filed Sept. 21, 1917. Serial No. 192,479. 4 Claims. (Cl. 121—117.)



1. The combination with two cylinders of a reciprocating engine, of a duplex piston mounted in each of said cylinders, means for alternately rendering the driving medium effective in the ends of said two cylinders, a rotary driven member, a pair of shafts on opposite sides of said cylinders, a pair of ratchet wheels secured to each of said shafts, a pair of reversely acting pawls carried by each of said pistons for imparting steps of movement to the ratchet wheels, said ratchet wheels being set the one in advance of the other, and driving connections from said two shafts to the driven member.

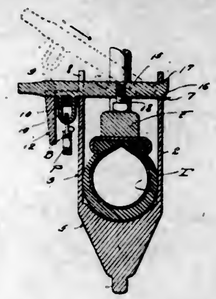
1,353,540. TALKING-MACHINE-TOP SUPPORT AND RELEASE THEREFOR. GEORGE L. PARRISH, Ricketts, Pa. Filed May 29, 1920. Serial No. 385,351. 3 Claims. (Cl. 217—60.)



1. In a cabinet, the combination with a body, of a hinged cover therefor, a pivoted supporting latch carried by the cover, a keeper secured to the body to be engaged by the supporting latch, a clevis adjustably and detachably connected to the supporting latch, a coupling block operatively and pivotally mounted on the clevis, and a longitudinally movable member mounted in guides of the cover and being in turn adjustably connected to the coupling block, whereby upon imparting a movement to the longitudinal movable member, the supporting latch may be disengaged from its keeper.

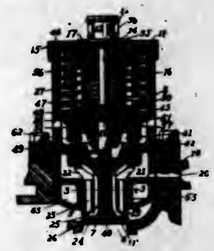
1,353,541. AUTOMOBILE-CHOCK. FRED RETTERER, Harpster, Ohio. Filed Dec. 24, 1919. Serial No. 347,174. 5 Claims. (Cl. 70—90.)

3. In a chock for auto wheels, the combination with a shackle having an aperture in one arm, a lip on its other arm provided with a slot, and a guard on the lip; of a bar having one end adapted to engage said aperture, and a staple in the bar near its other end adapted to pass



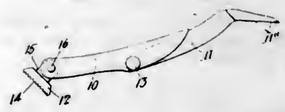
through said slot and project beyond the lip and receive a padlock, the latter underlying said guard.

1,353,542. MULTIPLE-EXPANSION INTERNAL-COMBUSTION ENGINE. HERMAN J. SCHARNAGEL, Tompkinsville, N. Y., assignor to Elmer A. Sperry, Brooklyn, N. Y. Filed Nov. 28, 1917. Serial No. 204,349. 28 Claims. (Cl. 60—15.)



1. In an internal combustion engine, the combination with a cylinder, of a unitary intake and exhaust valve mechanism therefor comprising an outwardly opening exhaust valve, a stem therefor, a port normally closed by said valve, a sleeve surrounding said stem and normally seated upon said other valve forming an intake valve and means for raising each valve from its seat.

1,353,543. PORTABLE DOOR AND WINDOW FASTENER. CHRISTIAN P. SCHOELKOPF, St. Paul, Minn. Filed Mar. 5, 1919. Serial No. 280,842. 2 Claims. (Cl. 292—339.)



1. In a door or window fastener, the combination with a channel-shaped arm provided at one end with a pivoted head having a frictional face, of a second arm having a pointed outer end and having an inner end that works between and is pivotally connected to the intermediate portions of the flanges of said first noted arm.

1,353,544. TWIN-PROPELLER AEROPLANE. LAWRENCE B. SPERRY, Brooklyn, N. Y., assignor to The Lawrence Sperry Aircraft Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 19, 1917. Serial No. 197,388. 9 Claims. (Cl. 244—14.)

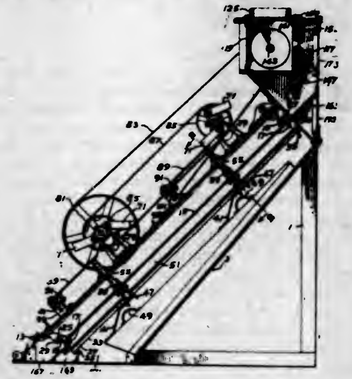
1. In an aeroplane, a sustaining plane, a tail plane supported in the rear thereof and a pair of propellers

positioned forward of said sustaining plane and on opposite sides of the fore and aft center-line of the aeroplane, said propellers being adapted to rotate in opposite directions with their inner tips moving upwardly, said



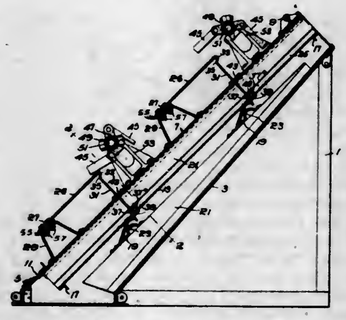
propellers being so positioned that the upward whirl of the slip streams produced thereby will impinge the depressing currents produced by said sustaining plane adjacent said tail plane.

1,353,545. SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed June 9, 1917. Serial No. 173,784. 19 Claims. (Cl. 83—56.)



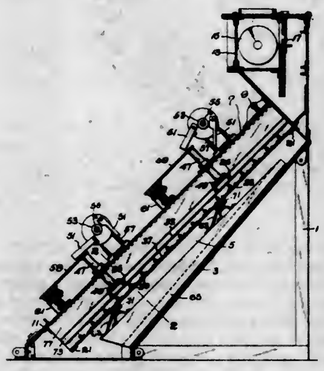
1. In a separator, the combination with a frame having screen material stretched thereon, of means to yieldingly support said frame including fixed leaf springs each having a free end extending into supporting engagement with the frame, said frame and springs having means for limiting lateral and longitudinal movement of the frame relative to the springs, and said frame being removably supported by the springs and free from fastening means between the frame and springs.

1,353,546. SEPARATOR. THOMAS J. STURTEVANT, Quincy, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 21, 1917. Serial No. 192,478. 6 Claims. (Cl. 83—56.)



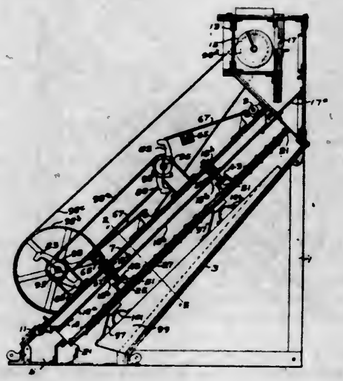
1. In a separator, the combination of a casing, a screen for grading materials mounted in said casing, and means for vibrating said screen comprising a bracket mounted on said casing, a resilient arm having one end secured to said bracket and a portion extending a substantial distance from said bracket along said casing, and a portion extending thence transversely to said first named portion through the casing and having an end for engagement with the screen, and rotary swing hammer means mounted on said casing for imparting blows to said arm at the juncture of said transverse portions.

1,353,547. SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor, by mesne assignments, to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 18, 1917. Serial No. 197,330. 12 Claims. (Cl. 83—56.)



1. A screen for separators, comprising a frame having side and end members, screen clothing secured to said side members, a member extending along said clothing intermediate and substantially parallel to the side members of said frame and secured to the end members of said frame, and means coöperating with said intermediate member to stretch the clothing, said intermediate member and stretching means coöperating therewith located in their entirety above said clothing.

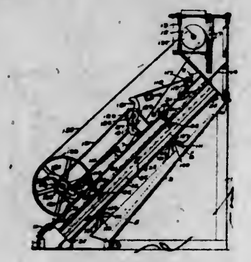
1,353,548. SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 23, 1918. Serial No. 218,649. 23 Claims. (Cl. 83—56.)



1. In a separator, the combination with screen clothing for grading materials, of a frame for said clothing, a vibratory bridge member spaced from said clothing and connected to the sides of said frame, relatively adjustable

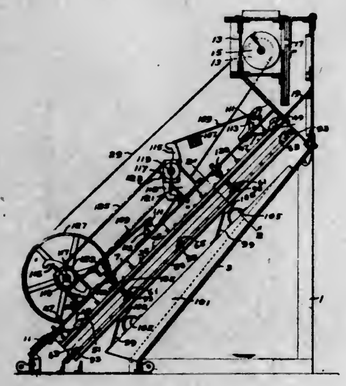
stretching members for tensioning said clothing, and means connecting said bridge member with said stretching members that vibrations of the former may be transmitted through the latter to the clothing.

1,353,549. SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed June 11, 1918. Serial No. 239,481. 27 Claims. (Cl. 83—56.)



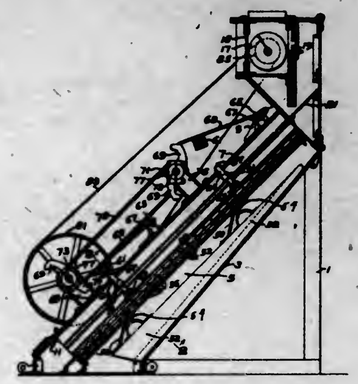
1. In a separator, the combination of a casing, a removable inclined master frame mounted in, but separate from said casing and comprising metal side plates, upper and lower transverse bars secured to said plates to hold the latter in spaced relation, a plurality of screens carried by, but separable from said master frame and each comprising side bars and screen clothing for grading materials secured to said side bars with free ends between said side bars, spring means yieldingly to sustain said master frame in said casing, and means acting on said upper transverse bars to vibrate all of said screens through the master frame.

1,353,550. SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed June 11, 1918. Serial No. 239,482. 24 Claims. (Cl. 83—56.)



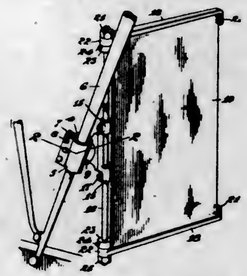
1. In a separator, the combination of a casing having a cover, hangers rigidly secured to and depending from said cover, a screen for grading materials, means to connect said screen with said hangers, and means to stretch said screen after connection thereof with said hangers to secure the screen to said hangers.

1,353,551. SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 6, 1918. Serial No. 261,347. 11 Claims. (Cl. 83—56.)



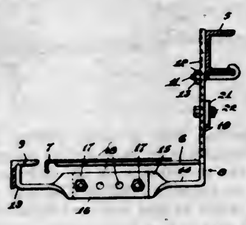
1. In a separator, the combination of a casing, a master frame removably mounted therein having opposite sides and constructed to receive a plurality of screens for grading materials, screens removably mounted on said master frame each comprising screen clothing having free flexible ends and opposed edges adjacent opposed sides of said master frame; and stretching means connecting the opposed edges of said clothing with the opposed sides of said frame for positively stretching said clothing between the sides of the master frame, said master frame and screens removable from the casing as a unit.

1,353,552. WINDSHIELD ATTACHMENT FOR AUTOVEHICLES. ALVIN H. SWEET, Los Angeles, Calif. Filed Sept. 18, 1919. Serial No. 324,377. 2 Claims. (Cl. 296—85.)



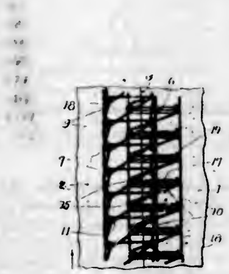
1. The combination of the bow of the vehicle top, a pair of clamping members engageable with said bow, a boss formed on one of said members, a bracket pivoted for rotary movement on said boss, means for clamping said bracket against movement on said boss, a pair of alined spaced sleeves on said bracket, a rod extending through said sleeves, means for engaging said rod for holding it in various adjusted positions relative to said sleeves, said rod extending in a direction at right angles to the pivotal mounting of said bracket, and a windshield plate carried by said rod.

1,353,553. SIDE BUMPER FOR VEHICLES. ALVIN H. SWEET, Los Angeles, Calif. Filed May 4, 1920. Serial No. 378,823. 5 Claims. (Cl. 293—57.)



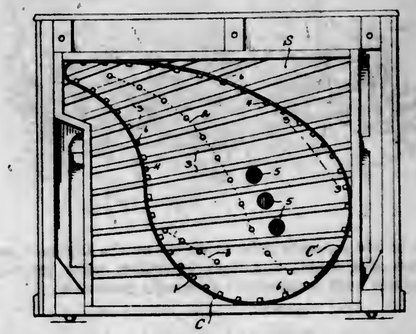
1. In a vehicle, the combination with a side frame of a vehicle, and a running board thereon; of a pair of dependent hangers secured to said frame member and extending beneath the running board, and a bumper bar carried by said hangers arranged to extend lengthwise of said running board adjacent the outer edge thereof.

1,353,554. SEAM. SAMUEL GEORGE TATE, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 7, 1916. Serial No. 107,959. 2 Claims. (Cl. 112—266.)



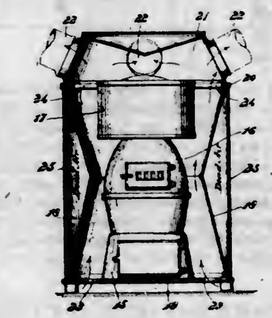
1. A seam for sewed articles comprising fabric sections having their edges abutted, a series of stitches connecting said sections and comprising spaced rows of opposed needle thread loops respectively extending through the fabric sections on opposite sides of the abutted edges, a looper thread concatenated with said needle thread loops and forming a line of single chain loops on one side of the meeting edges of the fabric sections, and a separate series of stitches connecting and anchoring said fabric sections against being separated by a strain transverse of the meeting edges of the fabric sections, said separate series of stitches including spaced rows of opposed needle thread loops and a looper thread concatenated therewith, said last-mentioned looper thread being formed into a series of loops respectively concatenated with each pair of the last-mentioned needle thread loops after passing through the needle thread loops of a previous pair and extending over and covering the chain loops of the first-mentioned looper thread.

1,353,555. SOUNDBOARD. GEORGE C. WISMER, Santa Barbara, Calif. Filed Aug. 21, 1918. Serial No. 250,837. 2 Claims. (Cl. 84—194.)



1. The combination with a sound board of a piano, of a sound box formed substantially semi pear-shaped and having one side thereof open, said box being secured to the sound board with the open side thereof closely adjacent the sound board.

1,353,556. HEATER. CHARLES A. XARDELL, Utica, N. Y. Filed July 11, 1917. Serial No. 179,790. 3 Claims. (Cl. 126—99.)

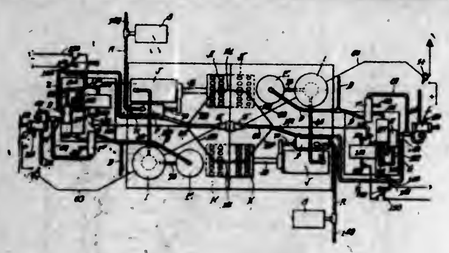


1. In a furnace or heater, the combination with a combustion chamber, of a distributing chamber, a fluid chamber or conduit freely opening into said distributing chamber, said fluid chamber or conduit surrounding said combustion chamber and having an inlet at its bottom, an outlet at its top, and unbroken walls extending from said inlet to said outlet, said conduit tapering upward from its bottom to a point adjacent the zone of greatest heat of said combustion chamber, and thereafter increasing in diameter upward to said outlet, thus forming an unobstructed Venturi tube around said combustion chamber.

1,353,557. MULTIPLE ELECTRIC AIR AND CAR COUPLING. REX G. AVERILL and CHARLES H. TOMLINSON, Mansfield, Ohio; said Averill assignor of all his right to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed July 7, 1917. Serial No. 179,141. 78 Claims. (Cl. 173—332.)

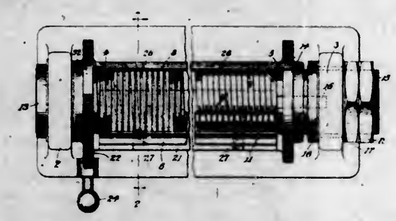
30. A pair of counterpart couplers each comprising a projectable contactor having one face parallel with the opposite face inclined to the plane of movement of the contactor, a plurality of electrical connectors mounted in the inclined face of the contactor, each one making a separate electrical connection between the counterpart

couplers, a single bus line connector mounted on the parallel face of each contactor, and electrical connections in each coupler for making double electrical connections for



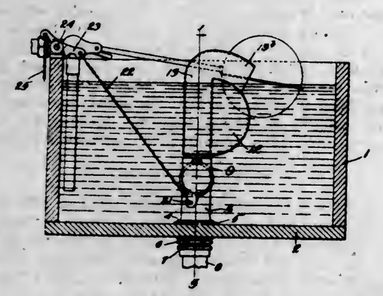
each of the separate circuits served by the separate connectors and double bus line connection, when the contactors of both couplers are forwardly projected.

1,353,558. MACHINE FOR SLOTTING PISTON-RINGS AND SIMILAR OBJECTS. MANUEL D. AVILLAR, New York, N. Y. Filed Nov. 22, 1919. Serial No. 339,811. 11 Claims. (Cl. 29—70.)



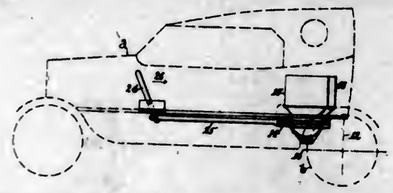
1. A chuck for holding a series of articles such as rings designed to be slotted diagonally, which chuck comprises, in combination, a frame, two jaws oppositely mounted on said frame so as to be capable of motion toward and from one another along a line parallel to the longitudinal axis of the chuck, and means for producing such motion, each of said jaws having the portions of its face adapted to engage the rings arranged in a plane slightly inclined to the longitudinal axis of the chuck and parallel to the corresponding plane of the face of the other jaw.

1,353,559. DISCHARGE-VALVE FOR FLUSH-TANKS. CHARLES WILLIAM BEATTIE, Parsonsfield, Me., assignor of one-half to John C. Nicholson, Peabody, Mass. Filed Aug. 21, 1919. Serial No. 318,903. 9 Claims. (Cl. 4—5.)



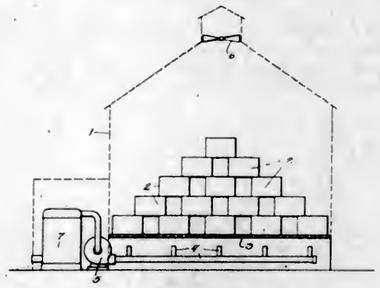
1. A flush valve comprising an outlet conduit, a siphon conduit swiveled thereto and adapted to have its suction end raised or lowered, a water-excluding float associated with said siphon conduit and being external thereto, normally holding said suction end raised, and control means for lowering said suction end.

1,353,560. ANTISKID DEVICE FOR MOTOR-VEHICLES. HUGO BEIL, Lawrence, Mass. Filed June 16, 1920. Serial No. 389,481. 1 Claim. (Cl. 294—34.)



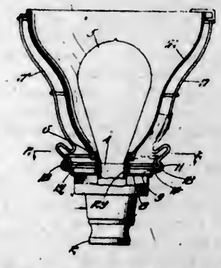
The combination with a motor vehicle provided with wheels, of a receptacle for sand or like material carried by said vehicle and provided with an outlet pipe having its outlet mouth arranged in front of a vertical plane through the axis of a wheel of said vehicle and above a horizontal plane through said axis, a valve casing interposed between said receptacle and said outlet pipe and open at its rear end, a valve slidable in said casing to control the flow of material from the receptacle onto the circumference of said wheel, and means under control of the operator of said vehicle for operating said valve.

1,353,561. CURING SWEET POTATOES OR YAMS. WALTON E. BOBO, Hattiesburg, Miss., assignor to The Magnolia Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 17, 1920. Serial No. 374,594. 5 Claims. (Cl. 99—11.)



3. In the curing of sweet potatoes or the like, the successive steps of initially subjecting the sweet potatoes to air currents at substantially atmospheric temperature for approximately two or three days; gradually raising the temperature to 76° F. and maintaining an air circulation at this latter temperature for approximately a week or ten days, and finally reducing the temperature to about 55°.

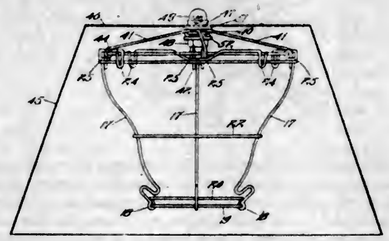
1,353,562. ELECTRIC-LAMP BODY, REFLECTOR, AND SHADE-HOLDER. HENRY D. CAHILL, Boston, Mass. Filed Jan. 26, 1920. Serial No. 354,171. 12 Claims. (Cl. 240—111.)



1. A lamp body having in combination therewith an inverted reflector member, a reflector supporting plate seated

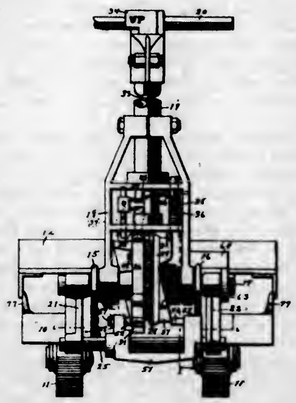
on the lamp body and means for locking the reflector supporting plate to the lamp body, said locking means being operable to lock and unlock at will the supporting plate.

1,353,563. ELECTRIC-CLUSTER-LAMP BODY AND SHADE-HOLDER. HARRY D. CAHILL, Boston, Mass. Filed Jan. 26, 1920. Serial No. 354,172. 6 Claims. (Cl. 240—111.)



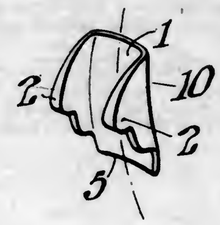
1. An electric lamp body having in combination therewith a shade holder, said shade holder and lamp body having interlocking connections, whereby the shade holder may be locked to the lamp body, and an auxiliary shade holder adapted to be seated upon the top of said first shade holder, one of said shade holders being formed with a plurality of fingers and the other of said shade holders being formed with a plurality of coöperating finger holes with which said fingers are adapted to engage to hold the two shades together.

1,353,564. OPERATING MECHANISM FOR ELEVATING-TRUCKS. JOHN LOUCIEN CHESNUTT, Kansas City, Mo., assignor to The Service Caster & Truck Company, Kansas City, Mo., a Corporation of Missouri. Filed Aug. 18, 1919. Serial No. 318,130. 24 Claims. (Cl. 254—5.)



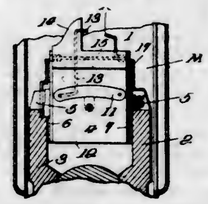
1. An elevating truck, comprising a wheeled truck frame formed with inclined ways, an elevating frame formed with rollers adapted to travel on said ways, a rotary lifting member carried by said truck frame, a flexible member secured to said elevating frame and also secured to and adapted to be wound on said lifting member, said lifting member being formed with a wedge-shaped cam on one of its faces, a brake member slidably carried by said truck frame and adapted for engagement with said cam, and means for normally maintaining said brake member in frictional engagement with said cam, to prevent reverse rotation of said lifting member.

1,353,565. PROCESS OF MAKING METALLIC DENTURE-BACKINGS. ROBERT M. CRAIG, Wilkinsburg, Pa. Filed June 19, 1919. Serial No. 305,421. 17 Claims. (Cl. 29—148.)



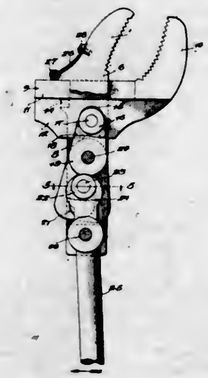
17. In a process of making a metallic denture structure; punching a concave bar to form a blank; and bending the thicker portions of said bar transversely to its thinnest portion, to form a recess between them.

1,353,566. SAFETY SPARK-GAP FOR MAGNETOS. ALFRED CHINA DE LORME, East Orange, N. J., assignor to Splitdorf Electrical Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 1, 1916. Serial No. 134,379. 8 Claims. (Cl. 171—209.)



1. In a magneto, the combination with a stationary current generating coil, of a safety spark gap including spaced members, and devices for supporting said spark gap members on said coil structure whereby said members may be removed from the magneto with the coil structure.

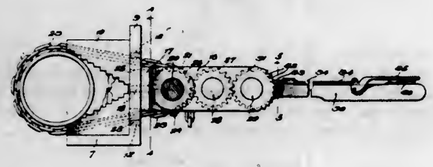
1,353,567. WRENCH. JAMES L. DILLON, Leavenworth, Kans., assignor of one-half to Frederick L. Wendler, St. Louis, Mo. Filed Nov. 25, 1919. Serial No. 340,616. 5 Claims. (Cl. 81—126.)



1. A wrench comprising a relatively fixed jaw member having a guideway therein, another jaw member includ-

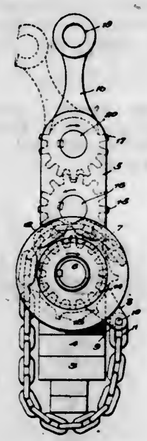
ing a slide movable in said guideway and having a seat, a member pivoted on said relatively fixed member, a roller on one end portion of said pivoted member disposed in said seat, there being an opening in the other end portion of said pivoted member, a handle member pivoted on said relatively fixed member, and a roller on an end portion of said handle member disposed in said opening.

1,353,568. PIPE-VISE. JAMES L. DILLON, Leavenworth, Kans., assignor of one-half to Frederick L. Wendler, St. Louis, Mo. Filed Nov. 25, 1919. Serial No. 340,617. 6 Claims. (Cl. 81—19.)



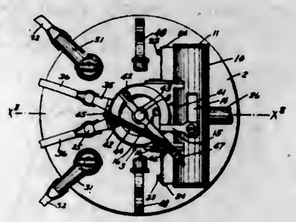
5. A vise comprising a standard, a pair of jaws on one side thereof, spaced plates extending from the other side of said standard, a shaft rotatable in said plates, a winding member fast on said shaft, a flexible binding member fixed in one portion and arranged in another portion to be engaged with said winding member and to pull an article against said jaws, a gear fast on said shaft between said plates, an intermediate gear in mesh therewith rotatably mounted between said plates, a lever pivoted between said plates and having a toothed segment in mesh with said intermediate gear, and means for holding said lever against movement in one direction.

1,353,569. LIFTING-SLING. JAMES L. DILLON, Leavenworth, Kans., assignor of one-half to Frederick L. Wendler, St. Louis, Mo. Filed Nov. 25, 1919. Serial No. 340,618. 5 Claims. (Cl. 254—161.)



1. A lifting-sling comprising a frame having means of connection for a flexible load-binder, a rotatable shaft, a winding member fast on said shaft arranged to have such a load-binder engaged therewith, an operating member on said shaft, an arm swingable on said frame arranged for connection with a pulling element, and means interposed between said arm and operating member whereby said winding member is rotated when said arm is swung.

1,353,570. MILKING APPARATUS. LAURITS DINESEN, Minneapolis, Minn., assignor to Perfection Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 15, 1917. Serial No. 191,609. 7 Claims. (Cl. 31—101.)



1. In a milking apparatus, the combination with a milk receptacle, of a coöperating cylinder and piston, a teat cup milk connection leading to said receptacle, a teat cup air connection, a vacuum tube, a valve seat having three atmospheric ports, two ports connected one to each end of said cylinder, two ports connected to said vacuum tube and a port in communication with said teat cup air connection, a controller valve having ports coöperating with the seat ports enumerated to alternately connect the opposite ends of said cylinder to the atmosphere and to said vacuum tube and to alternately connect the port of said teat cup air connection to the atmosphere and to said vacuum tube, and connections whereby said piston will move said controller valve alternately from one position to another.

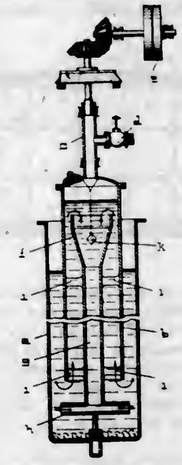
3. In a milking apparatus, the combination with a milk receptacle, of a coöperating cylinder and piston, a teat cup milk connection leading to said receptacle, a teat cup air connection, a vacuum tube, a valve seat having three atmospheric ports, two ports connected one to each end of said cylinder, two ports connected to said vacuum tube and a port in communication with said teat cup air connection, a controller valve having ports coöperating with the seat ports enumerated to alternately connect the opposite ends of said cylinder to the atmosphere and to said vacuum tube and to alternately connect the port of said teat cup air connection to the atmosphere and to said vacuum tube, which controller valve is pivotally mounted and which ports are circumferentially spaced around its pivotal axis, and connections whereby said piston will move said controller valve alternately from one position to another.

4. In a milking apparatus, the combination with a milk receptacle, of a coöperating cylinder and piston, a teat cup milk connection leading to said receptacle, a teat cup air connection, a vacuum tube, a valve seat having three atmospheric ports, two ports connected one to each end of said cylinder, two ports connected to said vacuum tube, and a port in communication with said teat cup air connection, a controller valve having ports coöperating with the ports enumerated to alternately connect the opposite ends of said cylinder to the atmosphere and to said vacuum tube and to alternately connect the port of said teat cup air connection to the atmosphere and to said vacuum tube, which controller valve is pivotally mounted and which ports are circumferentially spaced around its pivotal axis, a valve-actuating pivoted lever having a limited movement in respect to said controller valve, a tappet carried by said piston and operative on said actuating lever and a spring for normally maintaining the actuating end of the lever to one side or the other of its pivot, said tappet adapted to move the lever alternately from one side to the other of its neutral position in respect to its actuating spring.

6. In a milking apparatus, the combination with a receptacle and vacuum communicating means, of a cover provided with teat-cup connections, a valve casing carried by said cover, an oscillating valve mounted in the casing, said casing provided with a communication between the interior of the casing and the vacuum communication means, a cylinder provided with ports from its ends to said valve, carried by said casing, a double-acting piston operable therein, said valve having ports therein adapted to intermittently place the connection in communication with the vacuum means and with the atmosphere and alternately place the opposite ends of the cylinder in communication with said means and with the atmosphere, and a lost motion connection between the piston and valve whereby the valve will be moved after an initial movement of the piston.

7. In a milking apparatus, the combination with a receptacle and vacuum communicating means, of a cover provided with a teat-cup connection, a valve casing carried by said cover, an oscillating valve mounted in the casing, a cylinder carried by said casing, provided with ports from its ends to said valve, a double-acting piston operable therein, said valve having ports therein adapted to intermittently place the connection in communication with the vacuum means and with the atmosphere, and alternately placing the opposite ends of the cylinder in communication with said means and with the atmosphere, means connecting the piston to the valve whereby the valve will be moved upon the movement of the piston, and means for controlling the rapidity of the movement of the piston.

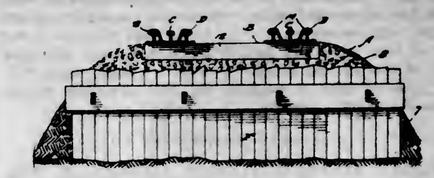
1,353,571. METHOD OF AND APPARATUS FOR FORMING LARGE CRYSTALS. OTTO DREIBRODT, Bitterfeld, Germany, assignor to Elektrochemische Werke, G. M. B. H., a Corporation of Germany. Filed June 27, 1914, Serial No. 847,787. Renewed Feb. 6, 1920. Serial No. 356,799. 7 Claims. (Cl. 127—19.)



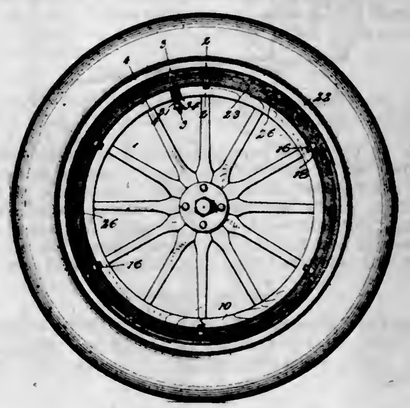
1. The herein described method of forming crystals from a saturated solution or molten substances which comprises circulating the liquid from a liquid-containing chamber to a crystallizing chamber containing a seed crystal, and thence back to the liquid-containing chamber with sufficient rapidity to prevent adherence of smaller crystals to the faces of the seed crystal, and cooling the liquid during its flow to the crystallizing chamber.

1,353,572. AUXILIARY RAIL-SUPPORT FOR TEMPORARY USE. JAMES J. DUFFY, Chicago, Ill. Filed Nov. 1, 1919. Serial No. 334,955. 9 Claims. (Cl. 238—169.)

4. As an article of manufacture, a rail supporting yoke formed of a single piece of metal providing an intermediate portion to embrace the base of an ordinary track rail, and arms extending upwardly from each side of said intermediate portion, the ends of each arm shaped to embrace the head of an ordinary railway rail.

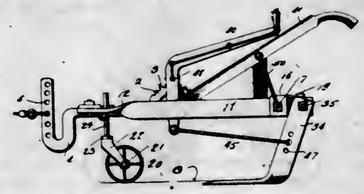


1,353,573. DEMOUNTABLE RIM. GARABED ESMARIAN and KRIKOR KAFAFIAN, Paterson, N. J. Filed June 17, 1919. Serial No. 304,748. 1 Claim. (Cl. 301—11.)



The combination with a rim having an annular flange, of a wheel felly having an annular recess in one side to receive the flange and a plurality of circumferentially arranged transverse openings, an internally threaded sleeve seated in each opening, said sleeve extending approximately half way through the felly and having one end lying flush with one surface of the felly, a washer applied to the flush end of the sleeve and felly, means for securing the washer in place, a bolt insertible in the opposite end of each opening and into each sleeve and threadedly engaged therein, an outwardly tapering squared portion formed on each bolt, and a lug extending laterally from each bolt adapted to bear against the flange when th bolts are rotated to secure the rim in place.

1,353,574. CULTIVATOR. ROMOLO J. ESPINOZA, Rosa, N. Mex. Filed Dec. 24, 1919. Serial No. 347,164. 3 Claims. (Cl. 97—10.)



1. In a cultivator, the combination with a frame having a supporting wheel at its front end, and a hand lever

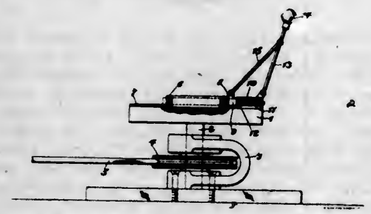
pivoted across one bar of the frame; of a scooter blade including divergent arms and standards rising from their outer ends and pivoted to the rear end of the frame, said arms having several holes within their length, and adjusting rods connected at their front ends with the lower end of said lever and having their rear ends diverging from each other and hooked for selective engagement with the holes of said standards, the rods standing wholly above the earth's surface.

1,353,575. AUTOMOBILE-HORN. MAURICE F. FITZGERALD, Winsted, Conn., assignor to The Fitzgerald Mfg. Co., Torrington, Conn., a Corportion of Connecticut. Filed June 28, 1920. Serial No. 392,289. 4 Claims. (Cl. 116—144.)



1. An automobile horn comprising a sound diaphragm, a shaft having teeth thereon, a rack engaging said teeth for rotating said shaft, an inertia wheel driven by said shaft to vibrate said diaphragm, a detent normally contacting with said wheel to hold the same from rattling, and means on said rack for moving said detent out of contact with said wheel upon the operation of said horn.

1,353,576. PROCESS OF MANUFACTURING PISTON-RINGS. HARRY S. FRANK, St. Louis, Mo. Filed July 1, 1918. Serial No. 242,719. 4 Claims. (Cl. 29—136.1.)



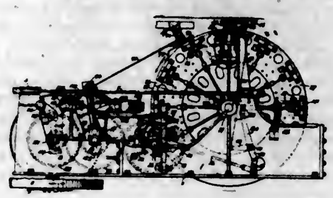
1. The process of forming a piston ring, which consists in rotating the ring at a high rate of speed to change the shape thereof by centrifugal force, and treating the ring while rotating to change the molecular arrangement of the material of the ring to set the same in a changed shape.

1,353,577. RAIL-CLAMP. HENRY FRAPPART and JEAN BAPTISTE BOUVIER, Kincaid, Ill. Filed Mar. 23, 1920. Serial No. 367,989. 3 Claims. (Cl. 238—10.)



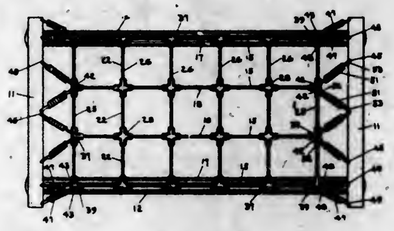
1. A rail clamp including a clamp member having a hook formation at one end to engage with the base flange of a tread rail and provided with an upright extension at its remaining end, the body of said clamp member being made sufficiently long to accommodate a bed rail placed with the head thereof between the head and base flange of the tread rail, and a wedge to be driven between the upright extension and the base flange of the bed rail.

1,353,578. MACHINE FOR FORMING PULP HOLLOW WARE. WILLIAM H. FULCHER, Oakland, Calif., assignor to The Fulcher Pulp Bottle Company, Oakland, Calif., a Corporation of California. Filed Oct. 18, 1918. Serial No. 258,674. 19 Claims. (Cl. 92—65.)



1. The combination of a mold wheel including plates and wedge-shaped blocks or partitions between said plates, side walls of adjacent partitions being parallel to form rectangular chambers having pairs of parallel sides, cores, and molds around the cores movable radially in said chambers, and means for intermittently rotating said mold wheel.

1,353,579. BED-BOTTOM. EUGENE FULLER, Providence, R. I. Filed May 3, 1920. Serial No. 378,353. 4 Claims. (Cl. 5—39.)



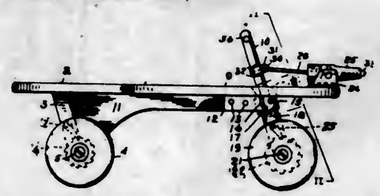
1. In a bed bottom, the combination with a frame, of a bed fabric comprising rods provided with enlargements upon their ends arranged in longitudinal rows, rods provided with enlargements on their ends arranged in transverse rows, and connecting members comprising radial sockets engaging the enlargements and provided with vertical slots to loosely admit the rods, and means for connecting the fabric with the frame.

1,353,580. ELECTRIC SWITCH. JOSEPH GALAMB, Detroit, Mich., assignor to Ford Motor Company, Detroit, Mich., a Corporation of Delaware. Filed May 16, 1919. Serial No. 297,459. 9 Claims. (Cl. 200—4.)



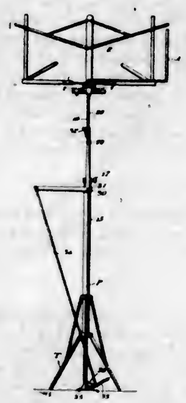
9. In a controlling switch construction for light and signal circuits of automobiles, a member having a flat face and carrying terminals of the light and signal circuits and a terminal for the supply circuit, said latter terminal including a finger overlying said face, and a contact carrying member movable relatively to the terminal-carrying member and having a contact positioned between said finger and face, whereby relative movement of contact and terminals will make and break the circuits individually.

1,353,581. TOY VEHICLE. JOSEPH G. GAVLAK, Monongahela, Pa. Filed Apr. 30, 1919. Serial No. 293,665. 2 Claims. (Cl. 208—35.)



1. A device of the character described comprising in combination, a toy vehicle having an elongated body portion, wheels carried by rear end of the said body portion, a stem, carrying a wheel, mounted for rotatable and reciprocal movement in the forward end of the said body portion for steering and propelling the vehicle, a miniature cannon mounted on the extreme forward end of the said body portion, and means actuated by the reciprocal movement of the said stem for loading a missile into the the said cannon and for projecting said missile from said cannon, substantially as described.

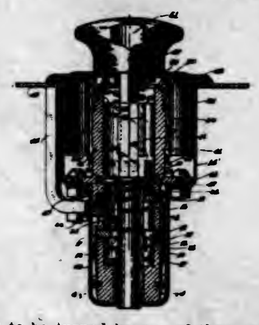
1,353,582. MUSIC-LEAF TURNER. JULIUS O. GEMSEY, Montevideo, Minn. Filed Jan. 2, 1920. Serial No. 348,752. 4 Claims. (Cl. 84—515.)



1. A music leaf turner comprising leaf turning frames mounted for oscillatory movement, eccentrically disposed fingers formed on said frames, said fingers being of progressively increasing lengths, a guide bar supported for movement toward the fingers, an actuating bar slidably fitted within the guide bar, a shoulder formed on said actuating bar, means for biasing said bar toward said fingers, and actuating means for effecting a reciprocating movement of the actuating bar whereby said shoulder will be caused to successively engage and turn said fingers to effect the turning of said frames.

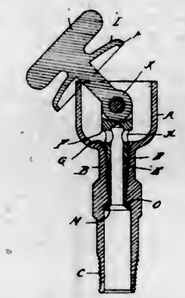
1,353,583. COMBINATION-LOCK. RAYMOND W. GRIFFITH, Milwaukee, Wis. Filed Aug. 4, 1919. Serial No. 315,207. 12 Claims. (Cl. 70—53.)

1. In a combination lock, the combination of two elements relatively rotatable with respect to each other and having an interlocking connection to prevent longitudinal movement of the elements with respect to each other except in a predetermined position, and a third element freely rotatable with respect to the first named elements



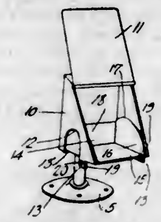
and adapted to be turned by one of them and preventing the longitudinal movement of said elements with respect to each other to unlocked position except in a predetermined position.

1,353,584. PRIMING-CUP. WILLIAM GRIKSCHEIT, Detroit, Mich. Filed Sept. 19, 1919. Serial No. 324,819. 4 Claims. (Cl. 123—187.5.)



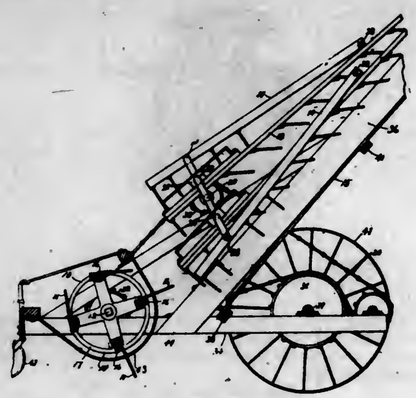
1. The combination with a cup and a valve controlling the discharge from said cup having threaded engagement therewith, of a handle for operating said valve, and a cap for said cup mounted on said handle and adapted to be locked in engagement with the cup when the valve is seated.

1,353,585. COIN AND STAMP BOX. JOHN R. HALLEY, Nashville, Iowa. Filed July 11, 1919. Serial No. 310,001. 2 Claims. (Cl. 133—14.)



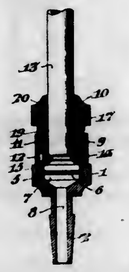
1. In a receptacle, a supported casing provided with an open front and bottom, a door hinged to the casing and normally closing the front thereof, a tray disposed between the side walls of the casing and having one end thereof pivoted to the opposite sides of the casing, and means operated by tilting the tray, for opening the door, to allow the contents of the receptacle to fall therefrom.

1,353,586. HAY-LOADER. CHARLES HARTMAN, Sandwich, Ill., assignor to Sandwich Manufacturing Company, a Corporation of Illinois. Filed Oct. 3, 1919. Serial No. 328,240. 23 Claims. (Cl. 56—363.)



1. In a hay loader, in combination, a flexible inclined deck continuous from end to end rigidly held at its upper end, the lower end of the deck being free, gathering means delivering to the lower end of the deck, and elevating means operating over the deck.

1,353,587. SALIVA-EJECTOR. GEORGE D. HECK, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 20, 1917. Serial No. 149,717. 2 Claims. (Cl. 32—33.)

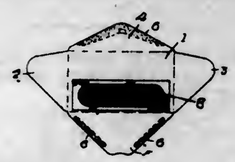


1. In a saliva-ejector having a mouthpiece, the combination with a casing having a seat, of a strainer, and a stuffing-box for said mouthpiece comprising a removable sleeve having a seat forming a stop for said mouthpiece packing, and a gland adjustably connected with said casing and arranged to force said sleeve into engagement with said strainer and yieldingly hold it upon the seat in said casing.

1,353,588. PROCESS OF MAKING WINDOW-ENVELOPS. VINCENT E. HEYWOOD, Worcester, Mass. Filed May 23, 1919. Serial No. 299,255. 4 Claims. (Cl. 93—61.)

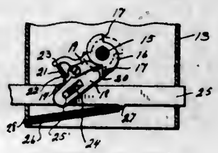
1. The improved method of making an envelop having a transparent part or window formed by applying varnish or other material upon the inner side of the envelop blank, which consists in the application of a piece of transparent paper upon the inside of the envelop blank, to extend over and cover the transparent part in the blank.

4. An improved window envelop having a transparent surface formed by varnish or other material applied to



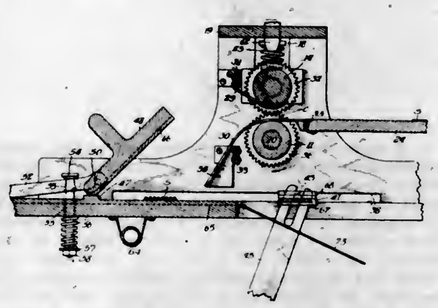
the inside of the envelop blank, and a transparent piece of paper applied to the inner side of the blank, and covering the transparent part.

1,353,589. ELECTRICAL SNAP-SWITCH. HENRY JUDSON HOLDREDGE, Wilkes-barre, Pa. Filed June 12, 1920. Srial No. 388,434. 6 Claims. (Cl. 200—155.)



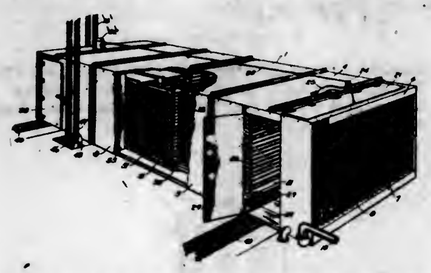
1. The combination with a rotary snap switch embodying the usual rotatable operating stem adapted when rotated to alternately place the switch in open and closed position and means for rotating said stem, of a cam secured to said operating stem and embodying a shoulder, a longitudinally shiftable bar arranged adjacent said cam, yieldable means normally holding said bar in one position, and operating means connected with said shiftable bar to be shifted thereby and adapted to engage the shoulder of said cam to shift the cam in one direction when the switch is in one position and inoperative to engage said shoulder when the switch is in the other position.

1,353,590. CRIMPING AND FOLDING MACHINE. JOSEPH W. HOODWIN, Chicago, Ill. Filed Mar. 3, 1920. Serial No. 362,944. 15 Claims. (Cl. 270—61.)



1. In a crimping and folding machine, the combination of a supporting table, crimping rolls above said table, means for feeding paper strips to the crimping rolls, said rolls delivering the crimped strips to said table, an abutment on said table, a presser bar slidable on said table to press the crimped strips against said abutment to intimately fold them, and means for exerting vertical pressure on the strips during folding thereof.

1,353,591. PROCESS OF AND APPARATUS FOR DRYING WOOD VENEER OR OTHER SUBSTANCES. JOHN F. HOPE and ERIC LAMBERT, Kansas City, Mo. Filed Nov. 29, 1915. Serial No. 63,975. 3 Claims. (Cl. 34—46.)



1. A drying kiln comprising a housing having openings in its opposite ends and having a transverse opening in its top, a heating unit located in one of the end openings, a fan mounted in the opposite opening, adapted for drawing air through and discharging same from the housing, a cover for said top opening, and a thermostatic regulator for raising or lowering said cover to admit air to the kiln, for the purpose set forth.

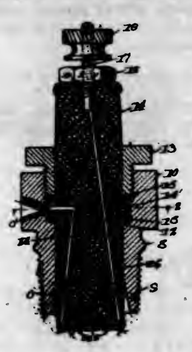
1,353,592. GARMENT-SUPPORTER FOR HOSIERY. FRANK E. HOWARD, Lamanda Park, Calif. Filed Sept. 13, 1919. Serial No. 323,539. 5 Claims. (Cl. 241—6.)



5. A supporter comprising in combination with a garment having supporter receiving means, said supporter comprising an elastic band engaging said receiving means, said band having its opposite end portions folded to form a pair of loops, means clamped upon the body of the band and being detachably and operatively connected to one end of one side of one of the loops for lengthening or shortening said loop, means connected to the end of one of the sides of the other loop and operatively engaging the body of the band for lengthening and shortening the other loop, and means for detachably connecting the two loops.

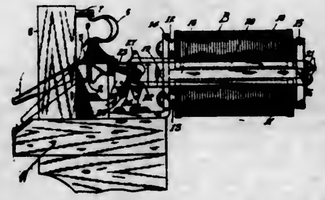
1,353,593. SPARK-PLUG. JOHN JORGENSON, Racine, Wis. Filed Mar. 15, 1919. Serial No. 282,911. 5 Claims. (Cl. 123—169.)

1. A spark plug, comprising a tubular plug shell, an insulating member extending therethrough, means for clamping said insulating member to the plug shell, a pair of electrodes extending through the insulating member and terminating at their inner ends adjacent the inner end of the insulating member, a plurality of contact point members extending in spaced relation from one electrode to the other, said plug shell having a sight opening extending therethrough, the outer end of one of the electrodes terminating at a point close to but spaced from the walls of the plug shell forming said sight opening to



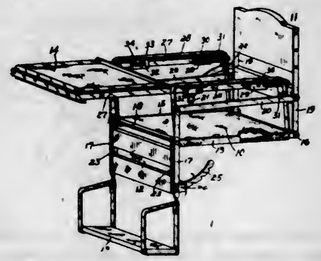
form a visible supplemental spark gap therebetween, and a binding post mounted in the outer end portion of the insulating member and connected to the outer end of the other electrode.

1,353,594. COMBINED ELECTROMAGNETICALLY AND MANUALLY OPERABLE ORGAN-STOP. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 14, 1915. Serial No. 2,102. 12 Claims. (Cl. 84—59.)



1. A device of the character described including a two-position stop key for use in controlling the apparatus of a pneumatically operated instrument and adapted to be moved manually from its normal position to its actuated position and vice versa, a pair of electromagnets, an armature for said electromagnets adapted to directly move said stop key from its actuated to its normal position when one of said electromagnets is energized, and to move said key from its normal to its actuated position when the other of said electromagnets is energized.

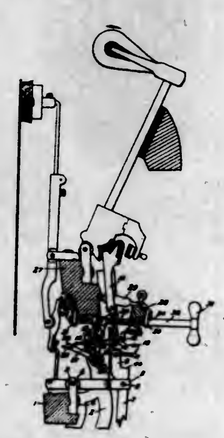
1,353,595. COMBINATION-CHAIR. FRANK KARSCHITZ, Bridgeport, Conn. Filed Sept. 12, 1919. Serial No. 323,370. 2 Claims. (Cl. 155—108.)



1. In a chair the combination with a seat having arms provided near their rear ends with pins and near their

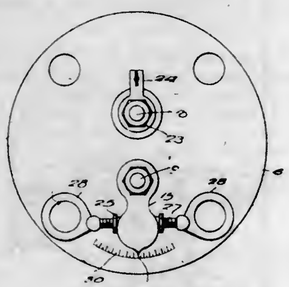
forward ends with brackets, a back and a foot rest pivoted to the respective ends of the seat, and links connecting the back and the foot rest, of a table, and side strips therefor having sliding pivotal connection on said pins, the weight of the side strips and the table being supported by the brackets.

1,353,596. PIANO-FLANGE. EMIL KOLL, Cincinnati, Ohio. Filed Feb. 13, 1919. Serial No. 276,705. 1 Claim. (Cl. 84—251.)



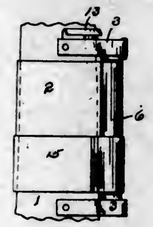
A piano flange having parallel front and back surfaces and a slot therein adapting the flange to be adjustably secured to a piano flange rail, said flange having a groove therein, a flange clip having an inturned end adapted to occupy the groove, a screw entering the flange rail from the front and occupying the slot, and a second screw passing through the flange clip from the front and entering the flange, said flange and clip having registering grooves on their contacting surfaces to receive the center pin of the butt.

1,353,597. SPARK-PLUG. DONALD W. LANG and ARTHUR D. VAUGHN, Eldred, Pa. Filed May 19, 1919. Serial No. 298,093. 2 Claims. (Cl. 123—153.)



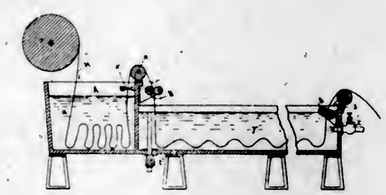
1. A spark plug including a body, a sparking point electrically connected therewith and adjustably supported thereon, a relatively stationary sparking point insulated from the body, an indicating member carried by the relatively adjustable sparking member and provided with a circular terminal, a relatively stationary screw carried by the body, and a sleeve mounted for adjustment upon said screw and having terminal flanges confining the circular portion of the indicating member for effecting adjustment of the latter simultaneously with the movement of the sleeve.

1,353,598. APPARATUS FOR PRESERVING AND PROTECTING POLES AND THE LIKE. THOMAS E. LEWIS, Fort Worth, Tex. Filed June 24, 1919. Serial No. 306,388. 8 Claims. (Cl. 189—32.)



1. A preserving apparatus for poles and the like comprising a piece of sheet metal, and means for wrapping the same on the pole including a rotor, said sheet metal and rotor forming a pocket to receive preserving material against the pole.

1,353,599. COLLOID-TREATED FABRIC AND METHOD OF PRODUCING THE SAME. STANLEY P. LOVELL, Brockton, Mass. Filed Jan. 16, 1920. Serial No. 351,913. 6 Claims. (Cl. 91—68.)

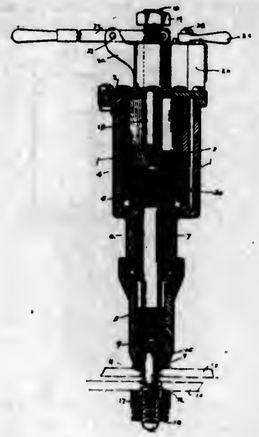


1. As a new article of manufacture, a villous pile fabric, with porous colloidal material, insoluble in water, among and between the fibers of the pile.

5. The method which consists in impregnating a sheet of villous pile fabric with colloidal material, insoluble in water, in diffusion or solution, passing the fabric to a pile opening mechanism, and thence to a precipitating bath; immersing the fabric therein until the precipitant displaces the solvent, precipitating the colloidal material among and between the fibers of the pile.

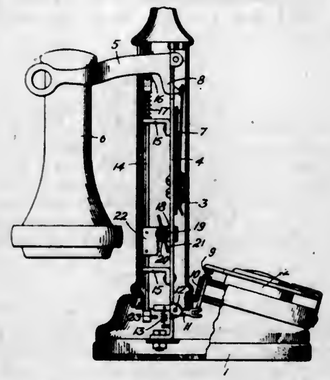
1,353,600. BOLTING-UP AND PLATE-TIGHTENING MACHINE. JAMES P. MCBRIDE, Seattle, Wash. Filed Aug. 20, 1919. Serial No. 318,758. 6 Claims. (Cl. 29—84.)

1. In a device for pulling together a pair of members which are held loosely together, the combination of a pressure cylinder having a cylinder head, a piston slidably mounted within the said pressure cylinder, a piston rod passing through the open end of the said cylinder, an extension piston rod secured to the said piston and oppositely disposed to the said piston rod and extending through the said cylinder head, means upon the said ex-



tension piston rod whereby the piston may be held against movement in one direction.

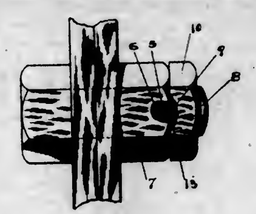
1,353,601. TELEPHONE SYSTEM. JAMES L. MCQUARRIE, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 27, 1918. Serial No. 268,447. 7 Claims. (Cl. 179—90.)



1. In an automatic telephone system, a substation apparatus, an impulse-sending device therefor, means normally engaging a portion of said device for preventing operation thereof, a trip movable upon removal of a receiver from its switchhook for releasing said locking means, and means for retarding the movement of said trip whereby a definite period of time will elapse between the removal of said receiver and the release of said locking means.

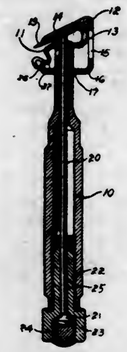
1,353,602. NUT-LOCK. CARL A. MAGNUSON, Portland, Oreg. Filed Apr. 10, 1919. Serial No. 289,147. 1 Claim. (Cl. 151—34.)

A nut having a circular orifice therein; a cylindrical dog having a chamfered end and adapted for insertion within said orifice; a flat face upon the periphery of said dog parallel to the axis thereof; and an upset portion



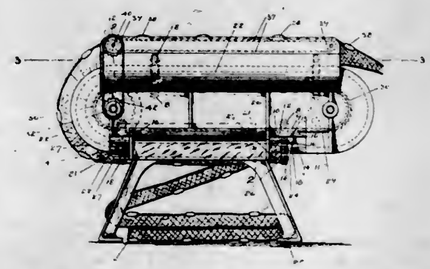
of the surface of said orifice adapted to contact with said face.

1,353,603. SAFETY-RAZOR. SETH G. MALBY, Derby, Conn., assignor to Charles H. Jockmus, Ansonia, Conn., doing business as Ansonia Manufacturing Company. Filed Mar. 22, 1920. Serial No. 367,662. 7 Claims. (Cl. 30—12.)



1. In a safety razor, a hollow handle, an adjusting screw disposed therein and provided with a hollow head, an adjusting pin carried by said adjusting screw and extending into said hollow handle and having a head disposed in said hollow head, and a set screw disposed in said hollow head and adapted to bear against said head of said adjusting pin.

1,353,604. GILL-NET RETRIEVER. CHRIST MARCHIUS, Portland, Oreg. Filed Nov. 11, 1919. Serial No. 337,250. 6 Claims. (Cl. 254—137.)



1. In a gill net retriever, a main frame; endless tracks upon said main frame; carriages traveling upon said tracks; net grasping jaws upon said carriages; means to cause said jaws to grasp the net as it is fed to the upper portion of the device; means to cause certain alternate

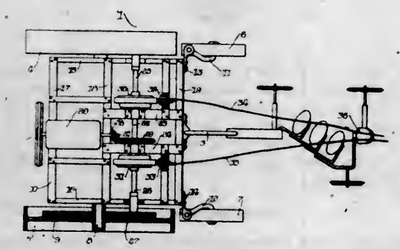
carriages to release the net at one end of the lower portion of the device; and means to cause the other alternate carriages to release the net at the opposite end of the lower portion of the device.

1,353,605. CHECK-HOLDING DEVICE. ANTONIO NAPOLILLO, Rivesville, W. Va. Filed Apr. 10, 1920. Serial No. 372,937. 3 Claims. (Cl. 40—11.)



1. A check holding device of the character described, comprising a body portion, an upstanding hook secured thereto, and a spring guard secured to the body portion and having a longitudinally curved end portion, said end portion having a longitudinal slot formed therein and spaced from the free end of the same, said slot receiving the end portion of the hook with the free end of the hook extending outwardly beyond the longitudinally curved end portion and the free end of such longitudinally curved end portion extending inwardly beyond the hook.

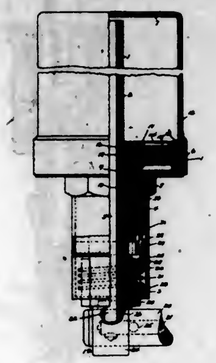
1,353,606. STEERING AND CONTROL MECHANISM FOR TRACTORS AND THE LIKE. GEORGE R. NICHOLS, Jr., Chicago, Ill.; The Peoples Trust and Savings Bank of Chicago administrator of said George R. Nichols, Jr., deceased. Filed Dec. 21, 1916. Serial No. 138,152. 6 Claims. (Cl. 180—17.)



1. In a tractor, a driving shaft, a pair of driving wheels, a pair of clutches for connecting said driving shaft independently to said driving wheels and control elements for said clutches, said control elements comprising each a lever, latch means for controlling the operation of each lever in one direction, a member pivotally mounted on each lever for controlling said latch means, and a single rein attached to each member for manipulating said latch means and lever.

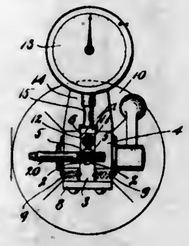
1,353,607. GREASE-CUP. EDMUND NOLAN, Detroit, Mich. Filed Mar. 11, 1920. Serial No. 364,923. 7 Claims. (Cl. 184—105.)

7. The combination with a lubricating connection having a polygonal end, of a grease cup detachably secured thereto, comprising a spindle having an end engageable with the polygonal end of said connection, a barrel base rotatably mounted on said spindle, a barrel proper upon said base, a plunger within said barrel proper and adapted to be actuated thereby, said plunger threadedly engaging said spindle, a clamp having a portion threadedly engaging the connection end of said spindle and a second portion surrounding the polygonal end of said connection, a ratchet non-rotatably secured to said clamp and movable longitudinally thereof, means for yieldably maintaining said ratchet in extended position, a second ratchet non-rotatably secured to said spindle and normally in engagement with said first-mentioned ratchet, coöperating shoul-



der members upon said barrel base and second-mentioned ratchet adapted to lock said barrel base to said second-mentioned ratchet upon rotation of said barrel proper in one direction, a sleeve surrounding said barrel base and movable longitudinally of said spindle to engage said first-mentioned ratchet and disengage the same from said second-mentioned ratchet.

1,353,608. SCREW-THREAD GAGE. RILEY HERBERT PARKER, Winthrop, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed Nov. 1, 1918. Serial No. 260,679. 3 Claims. (Cl. 33—199.)



1. A screw thread gage comprising two pairs of abutments capable of relative movement toward and away from each other and shaped and spaced to enter and fit simultaneously at separated points an accurately-formed screw thread of predetermined dimensions, the abutments of each pair being located at a fixed distance apart and having an unobstructed space between them and the abutments constituting one pair being movable lengthwise of the screw, and means for indicating the separation of the pairs of abutments when pressed against a screw placed between them.

1,353,609. SAFETY-RAZOR. RILEY HERBERT PARKER, Winthrop, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed Dec. 23, 1918. Serial No. 267,886. 4 Claims. (Cl. 30—12.)

1. In a safety razor, the combination with a guard of relatively fixed opposed jaws adapted to engage simultaneously a blade placed between them and comprising

steps at the ends of the guard and an abutment crossing the plane of the blade when in operative position, and a



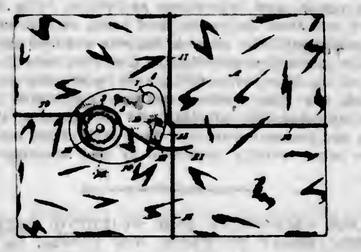
spring operating on the blade transversely to the plane of the latter for moving it into engagement with the abutment and maintaining such engagement during use.

1,353,610. AUTOMATIC CONTROLLER FOR STEERING-GEARS. CHARLES B. POST, New London, Ohio. Filed Nov. 1, 1917. Serial No. 199,666. 4 Claims. (Cl. 280—94.)



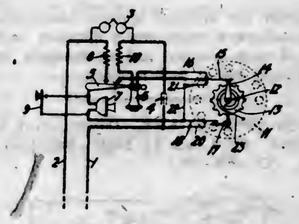
1. The combination with the axle wheel hubs and steering bar of an automobile of a casing affixed to said axle and having inclined rear walls, a looped spring member having its extremities mounted in said casing and each extremity of said spring engaging one of said inclined walls and movable thereon toward and away from the other extremity, the looped end of said spring member being pivotally attached to and movable with said steering bar.

1,353,611. PACKAGE-TIE. JAMES H. REED, Burns, Oreg. Filed Dec. 12, 1919. Serial No. 344,436. 2 Claims. (Cl. 24—18.)



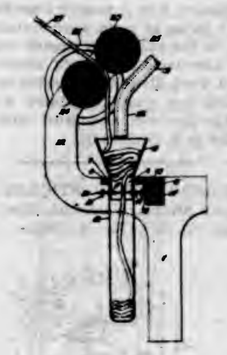
1. A package tie comprising a flexible metallic plate provided at its edge with an outwardly projecting extension integral therewith, said extension having a tapered portion decreasing in width forwardly, said extension being bent upon its inner longitudinal edge to overhang the metallic plate with said portion bent upwardly at an angle with relation to the plate, a button secured to the top of the plate in alinement with the upwardly bent portion, and a cord secured to the plate near said extension and adapted to be passed about the package and about the button with its free end inserted beneath the upwardly bent portion.

1,353,612. TELEPHONE-EXCHANGE SYSTEM. FRANK N. REEVES, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1918. Serial No. 256,311. 3 Claims. (Cl. 179—90.)



3. In a telephone substation circuit, a receiver, a circuit therefor, a transmitter, a shunt circuit therefor, an impulse sending device, and contents controlled by said device for opening said receiver circuit and closing said shunt circuit whenever said device is moved from normal.

1,353,613. COP-MAKING APPARATUS. JAMES H. RENTON, Philadelphia, Pa. Filed Apr. 28, 1919. Serial No. 292,125. 3 Claims. (Cl. 226—19.)



1. Apparatus of the character described including a structure for supporting a plurality of bags with their open ends at the top; air conducting means having openings positioned to direct air downwardly into the open ends of said bags and being spaced from said bags to permit yarn to be inserted into the tops of the bags and blown therein by the air; and means for feeding yarn into said bags through said space; substantially as described.

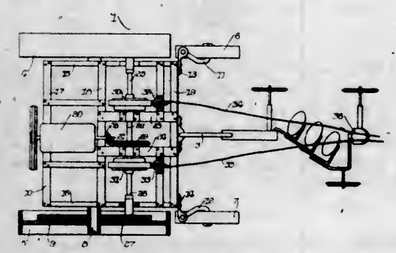
carriages to release the net at one end of the lower portion of the device; and means to cause the other alternate carriages to release the net at the opposite end of the lower portion of the device.

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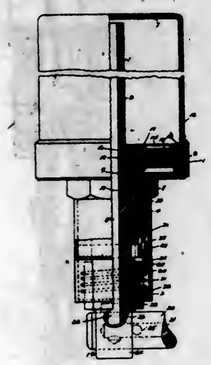
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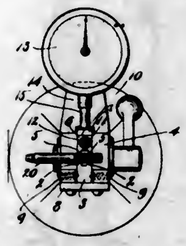
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der members upon said barrel base and second-mentioned ratchet adapted to lock said barrel base to said second-mentioned ratchet upon rotation of said barrel proper in one direction, a sleeve surrounding said barrel base and movable longitudinally of said spindle to engage said first-mentioned ratchet and disengage the same from said second-mentioned ratchet.

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stops at the ends of the guard and an abutment crossing the plane of the blade when in operative position, and a



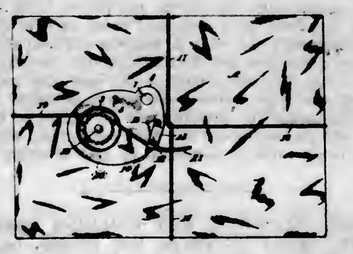
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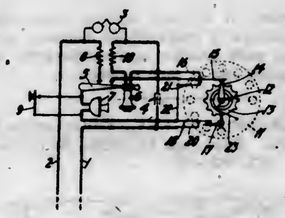
1. The combination with the axle wheel hubs and steering bar of an automobile of a casing affixed to said axle and having inclined rear walls, a looped spring member having its extremities mounted in said casing and each extremity of said spring engaging one of said inclined walls and movable thereon toward and away from the other extremity, the looped end of said spring member being pivotally attached to and movable with said steering bar.

1,353,611. PACKAGE-TIE. JAMES H. REED, Burns, Oreg. Filed Dec. 12, 1919. Serial No. 344,436. 2 Claims. (Cl. 24—18.)



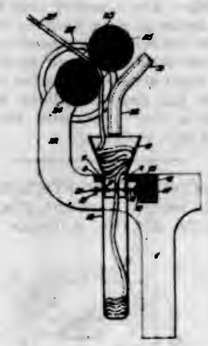
1. A package tie comprising a flexible metallic plate provided at its edge with an outwardly projecting extension integral therewith, said extension having a tapered portion decreasing in width forwardly, said extension being bent upon its inner longitudinal edge to overhang the metallic plate with said portion bent upwardly at an angle with relation to the plate, a button secured to the top of the plate in alinement with the upwardly bent portion, and a cord secured to the plate near said extension and adapted to be passed about the package and about the button with its free end inserted beneath the upwardly bent portion.

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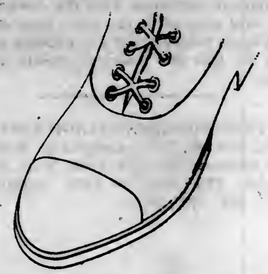
3. In a telephone substation circuit, a receiver, a circuit therefor, a transmitter, a shunt circuit therefor, an impulse sending device, and contents controlled by said device for opening said receiver circuit and closing said shunt circuit whenever said device is moved from normal.

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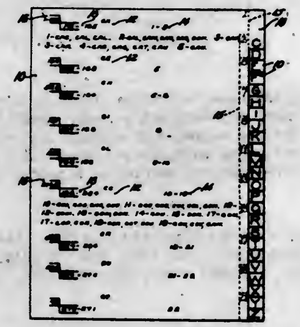
1. Apparatus of the character described including a structure for supporting a plurality of bags with their open ends at the top; air conducting means having openings positioned to direct air downwardly into the open ends of said bags and being spaced from said bags to permit yarn to be inserted into the tops of the bags and blown therein by the air; and means for feeding yarn into said bags through said space; substantially as described.

1,353,614. HOOK-LINK FASTENER FOR EYELETED WEARING-APPAREL. HERBERT ERNEST ROSS, Sydney, New South Wales, Australia. Filed Nov. 29, 1918. Serial No. 264,549. 3 Claims. (Cl. 24—73.)



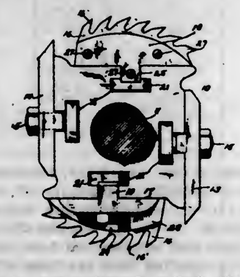
3. A fastener for eyeleted apparel comprising rigidly connected members, a transversely disposed anchor hook on one end of each member, and an inwardly bent catch hook on the other end of each member.

1,353,615. DICTIONARY-KEY. CONSTANTINE SAVITSKY, Denver, Colo. Filed June 15, 1920. Serial No. 389,223. 4 Claims. (Cl. 283—36.)



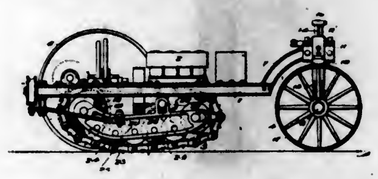
1. In a dictionary key, a master page for each letter of the alphabet, a series of main word divisions for each letter indicated on the respective master pages, a plurality of key pages associated with each master sheet, indicia in each of said word divisions referring to certain of said key pages, each key page containing a series of word roots, and page numbers associated with said roots referring to pages in a dictionary.

1,353,616. WOODWORKING STICKER OR MOLDER-HEAD. JOHN SHUFF, Waukesha, Wis. Filed Apr. 15, 1920. Serial No. 374,175. 4 Claims. (Cl. 144—224.)



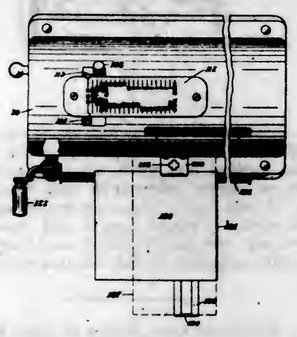
1. In a device of the class described, the combination with a revoluble head having a slot therein, of an attaching member engageable with the revoluble head, a projection on said attaching member for engagement in the slot of said head, a cutting member, a clamping plate for securing the cutting member to the attaching member, a projection on said clamping plate for engagement in the slot of said head, and means for securing the attaching member to said head.

1,353,617. TRACTION-MACHINE. WILLIAM STRAIT, Appleton, Wis., assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Original application filed Dec. 10, 1913, Serial No. 805,767. Divided and this application filed Nov. 4, 1916. Serial No. 129,554. 19 Claims. (Cl. 180—9.1.)



1. In a traction machine, the combination of a main frame, a driving tractor pivoted near one of its ends as a unit in relation to the main frame, a steering unit pivotally mounted for steering in respect to the main frame, and spring mechanism supporting the main frame upon said steering unit.

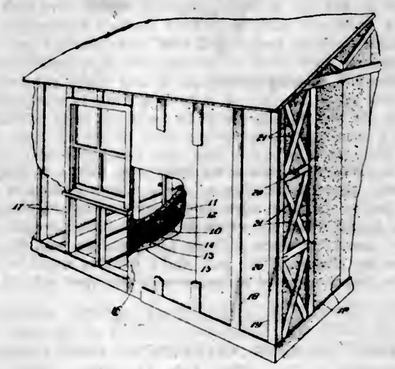
1,353,618. CHECK-WRITER. LIBANUS M. TODD and CHARLES G. TIEFEL, Rochester, N. Y., assignors, by mesne assignments, to Todd Protectograph Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 23, 1915. Serial No. 23,322. 26 Claims. (Cl. 197—6.2.)



1. In a printing apparatus, the combination of a rotary type carrier provided with a plurality of type forms; a rotary platen, said type forms and platen being movable toward and from each other and being each rotatable in engagement with the other to impress and feed the work; selective mechanism for effecting a relative selective movement of the type forms and platen; operating means for rotating the type carrier; and means actuated by said operating means for effecting said movement of the type forms and platen toward and from each other, said latter means being variably controlled by said selecting mechanism.

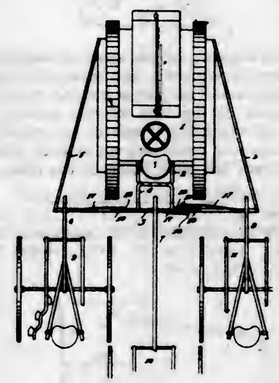
1,353,619. MATERIAL FOR BUILDING CONSTRUCTION. HENRY W. WHITE, New Orleans, La. Filed Feb. 20, 1920. Serial No. 360,092. 3 Claims. (Cl. 154—45.9.)

2. A sheet material for the exterior of buildings comprising, in combination, a major layer of waste fibrous material, the individual elements of which are saturated and thinly coated with bituminous material, said elements adhering at their points of contact in the mass to form



a cellular mass, a waterproof facing layer adhering to and closing the cells of said layer at one surface thereof and a backing layer of sheet material adhering to and closing the cells of said layer at the other surface.

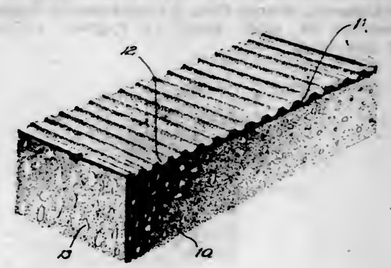
1,353,620. DRAFT CONNECTION FOR EARTH-STIRRING IMPLEMENTS. CHARLES P. ZINSER, Washington, Ill. Filed Oct. 29, 1919. Serial No. 334,144. 6 Claims. (Cl. 213—67.)



1. In a draft rigging, in combination with a tractor, a single draft-bar for attachment thereto of a series of earth stirring implements, said bar having rigid attachment to the said tractor and supported entirely thereby, and a member at each end of the draft-bar connected at one end thereto, and connected each at its other end to the tractor forward of the place of attachment of said bar, all of the parts being rigid with respect to one another and with respect to the tractor.

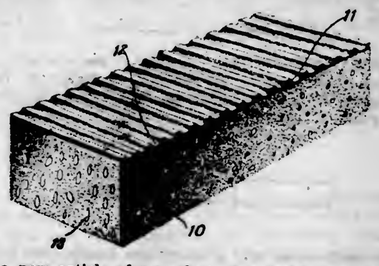
1,353,621. METHOD OF MANUFACTURING AN INSULATING MATERIAL. HAROLD S. ASHENHURST, Chicago, Ill., assignor of four-fifths to James J. Reynolds, Chicago, Ill. Filed Apr. 29, 1918. Serial No. 231,371. 2 Claims. (Cl. 154—28.)

1. The method of preparing a reinforced insulating block which consists in spreading on the block a relatively thin coat of plastic material having a higher heat-resisting capacity than the substance of which the block is



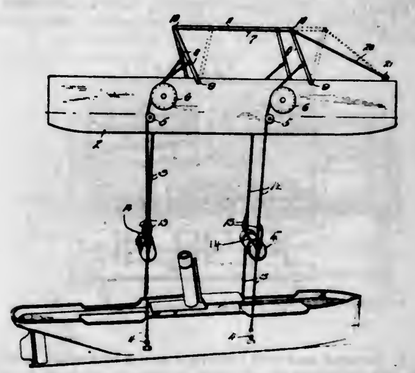
composed, then passing a corrugating tool over the plastic material, then allowing the plastic material to harden.

1,353,622. REINFORCED INSULATING MATERIAL. HAROLD S. ASHENHURST, Chicago, Ill., assignor of four-fifths to James J. Reynolds, Chicago, Ill. Original application filed Apr. 29, 1918, Serial No. 231,371. Divided and this application filed Dec. 30, 1918. Serial No. 268,976. 1 Claim. (Cl. 154—44.)



As a new article of manufacture, a body of porous insulating material having a ribbed surface composed of fiber asbestos permanently joined to the body during the process of manufacture thereof.

1,353,623. DEVICE FOR RAISING SUNKEN VESSELS. WALTER C. BECKWITH, Fostoria, Ohio. Filed Jan. 24, 1920. Serial No. 353,647. 3 Claims. (Cl. 114—51.)



1. An apparatus for raising sunken vessels, comprising a buoyant body, a frame pivotally secured to said buoyant body, lifting cables secured at opposite ends to said frame and to said sunken vessel and passing over sheaves carried by said floating body and means for rocking said frame.

1,353,624. STAKE-HOLDER. CUTHBERT C. BERGSTROM, Denver, Colo., assignor to The Bergstrom-Brewster Motor Company, Denver, Colo., a Corporation of Colorado. Filed Feb. 24, 1919. Serial No. 278,981. 2 Claims. (Cl. 296—43.)



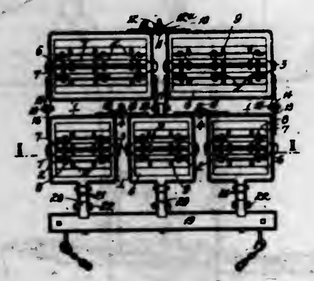
1. A stake holder, having a stake-receiving socket and a chamber, a partition between the socket and the chamber, the partition having an aperture, an outer socket wall and an outer chamber wall, said walls being on opposite sides of said aperture, a dog movable in said aperture, and a spring in the chamber and engaging the dog to project it through said aperture and interposed between the dog and said outer chamber wall, the lower end of the dog having a laterally extending ledge partially forming a pocket to assist retention of the spring in operative position.

1,353,625. PEN-BRUSH. ALBERT F. BRANDENBURG, Dayton, Ohio, assignor of one-half to Harry E. Palmer, Dayton, Ohio. Filed Sept. 18, 1919. Serial No. 324,396. 1 Claim. (Cl. 120—42.)



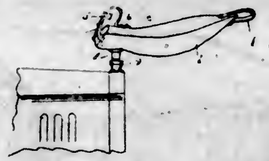
In combination with a hollow pen handle, and a feeder, a flexible tubular member having connection with ends of the handle and feeder member, a sponge supported within the flexible tubular member and having its surfaces contacting with the inner walls of the flexible tubular member, whereby pressure on the flexible tubular member causes material contained in the sponge to be forced into the feeder.

1,353,626. WEED AND CLOD CUTTER. HENRY A. M. BROMFIELD, Daylesford, Victoria, Australia. Filed Apr. 7, 1919. Serial No. 288,046. 6 Claims. (Cl. 55—61.)



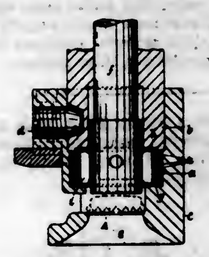
1. In weed and clod cutters, a series of loosely connected frames arranged in succeeding lines, each frame containing a plurality of ground rollers of equal diameter formed on their peripheries with a series of flattened portions, pairs of angle iron plates bolted to said flattened portions and running parallel to the axle of the rollers, and a cutting blade fitted between and bolted to each pair of said plates.

1,353,627. COLLAPSIBLE PAIL. DAVID H. BUCHER, Louisville, Ky. Filed May 29, 1920. Serial No. 385,323. 8 Claims. (Cl. 150—48.)



8. A collapsible pail comprising two pieces of flexible material secured together at their edges to form a flat pail having one side open, one of said pieces of material being longer than the other so as to extend beyond the latter along the open side to form a free flap for the temporary closure of the pail, and a pouring spout located in the longer piece of material near the open side of the pail.

1,353,628. SEALING APPLIANCE. AMOS CALLESON, Brooklyn, N. Y. Filed Feb. 21, 1920. Serial No. 360,344. 5 Claims. (Cl. 226—86.)



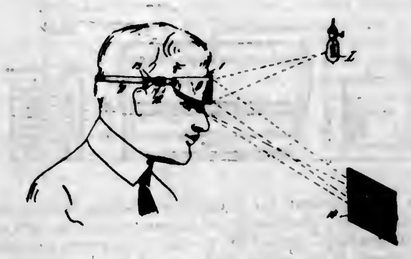
1. The combination of, an annular expansible throat-forming series of segments and means to apply, to portions of said series in planes remote from each other and transverse of the axis of the series, yielding resistance to the expansion of such series including a spring ring embracing said series and cut by both said planes and being rigid from one such plane to the other.

1,353,629. COLLAPSIBLE BOX. GEORGE A. CIBULKA, St. Louis, Mo. Filed June 27, 1919. Serial No. 307,112. 3 Claims. (Cl. 229—6.)



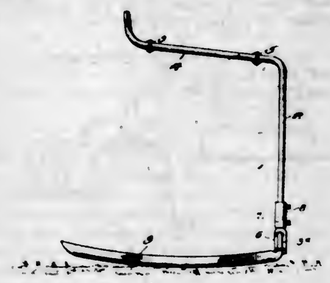
1. A box of the character described, comprising pivotally united back and end walls extending the full height of the box; a bottom wall closing the bottom of the box; a front wall portion pivotally united with the end walls and the bottom wall and extending a distance above the bottom wall and terminating relatively a considerable distance below the upper edges of the back and end walls; a front wall portion pivotally connected with the first-named front wall portion and having its ends free from said end walls, and being foldable upwardly into contact with said end walls to close the front of the box and being foldable downwardly away from the end walls of the box to open the box; a section in pivotal connection with the upper edge of said pivoted front wall portion arranged to fold over across the upper side of the box; a section in permanent pivoted connection with the back wall of the box foldable upon said first-named section; means for interlocking said two sections to hold them permanently across the upper end of the box; a number of perforated supports in the box pivoted to one of said walls and being detached from the other walls, adapted to fold flat against the wall to which they are pivoted to permit the box to be folded flat, and the upper one of said supports being adjacent to the upper edge of the first-named front wall portion; and a support in connection with the detached edges of said perforated supports adjacent to the opposite wall of the box and resting upon the bottom wall for sustaining said supports when the box is in use.

1,353,630. COMBINED EYE-SHADE AND REFLECTOR. GREGORIO C. COCHING, Manila, P. I. Filed Aug. 11, 1919. Serial No. 316,744. 4 Claims. (Cl. 128—21.)



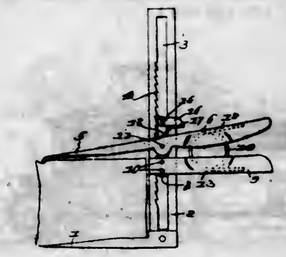
1. An eye shade comprising a frame having a mirror mounted therein with its reflecting face disposed outwardly, connecting means carried thereby, and a curved forehead engaging member mounted on its upper edge and extending in a plane at right angles thereto.

1,353,631. SCYTHE-SNATHE. D FELLOWS COLLICUTT, Columbia, S. C. Filed Mar. 3, 1917, Serial No. 152,371. Renewed Aug. 4, 1920. Serial No. 401,282. 1 Claim. (Cl. 56—325.)



In a scythe, a blade having a tang, a plate carried by said tang and formed with a cylindrical extension, a snathe having a straight portion, 2, a sleeve having binding bolts to receive the lower extremity of said portion 2 and the cylindrical extremity of said plate, and a handle portion, 4, on said snathe extending at substantially right angles from said portion 2 in the same direction as the blade and substantially parallel with the blade.

1,353,632. CLAMP. ALONSO COONS, Wappingers Falls, N. Y. Filed Mar. 18, 1919. Serial No. 283,418. 3 Claims. (Cl. 223—54.)



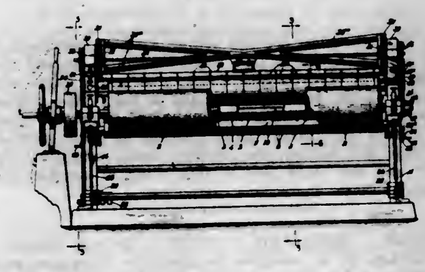
1. A clamp for the purpose set forth comprising a stationary jaw, a body member attached to the stationary jaw, a swinging movable jaw, a slide carried by the body member, the swinging jaw being pivotally mounted on the slide, and means for adjusting the slide longitudinally along the body member.

1,353,633. LIFTING-ROD COLLAR FOR SPINNING-FRAMES. JOHN THOMAS COTHRAN, Spartanburg, S. C. Filed Feb. 19, 1920. Serial No. 359,920. 2 Claims. (Cl. 118—1.)



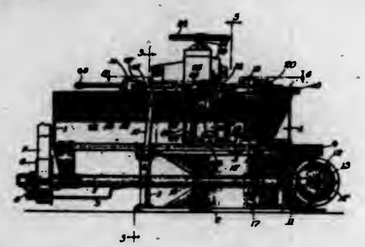
2. The combination with a lifting rod, and rails through which the rod extends, of a collar secured within each of the rails and comprising opposed detachably connected segments defining a substantially angular opening through which the rod extends, said rod being cylindrical, and spaced bearing portions within the opening for sliding engagement by the rod, there being clearance spaces between said bearing portions for the free passage of lint through the collar.

1,353,634. PROCESS OF AND MACHINE FOR WINDING ROLLS OF PAPER TOWELS AND TOILET-PAPER, &c. WILLIS S. CRANDELL, Elsmere, N. Y., assignor to Albany Perforated Wrapping Paper Company, Albany, N. Y., a Corporation of New York. Filed Dec. 16, 1918. Serial No. 266,862. 9 Claims. (Cl. 164—65.)



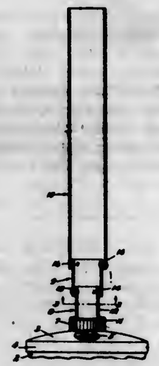
1. In a roll forming machine, the combination of a drum or roll, means for guiding a web of paper thereto, grooves in said roll transverse to said web, a rotatably mounted serrating knife adapted to coöperate with said grooves, and rolls adapted to press said web against said drum or roll on opposite sides of said knife.

1,353,635. METAL-BENDING MACHINE. JOHN F. CRAWFORD, Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed Feb. 20, 1919. Serial No. 278,270. 18 Claims. (Cl. 153—40.)



1. In a machine for forming angle-iron rings, the combination of a frame, a rotary disk mounted thereon, a roll upon which said disk travels and is frictionally driven thereby, a vertically adjustable roll above said disk, a horizontally positioned roll intermediate said rolls, said adjustable and intermediate rolls being adapted to retain angle-iron material between them and said disk, and means for rotating said disk to propel said material and rotate said adjustable and intermediate rolls through frictional engagement with said material.

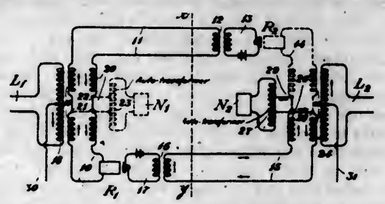
1,353,636. SMOKELESS ORCHARD-HEATER. WILLIAM ROY CRAWFORD, Pomona, Calif. Filed May 19, 1919. Serial No. 298,271. 2 Claims. (Cl. 158—91.)



2. In a smokeless orchard heater, a stack comprising a pipe section, a second pipe section mounted around the upper end of the first pipe section and spaced therefrom forming an up draft opening, and a third pipe section mounted around the upper end of the second pipe section and spaced therefrom forming a second up draft opening, the first and second pipe sections being comparatively short and the third pipe section being of considerable length and size.

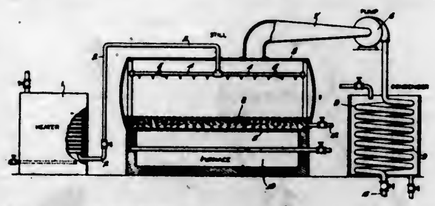
1,353,637. REPEATER-CIRCUIT. GEORGE CRISSON, Hoboken, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 23, 1918. Serial No. 268,072. 10 Claims. (Cl. 179—170.)

1. In a telephone system, a pair of transmission lines, a repeater circuit interconnecting said lines, said repeater circuit including one-way paths for transmitting in opposite directions, and means for associating the ends of said paths with said transmission lines, said means comprising transformers having one winding in the transmission lines and divided windings arranged with one-half



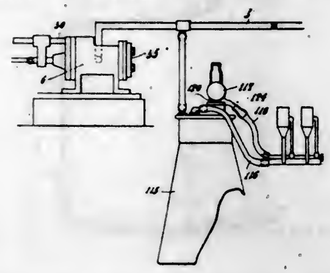
in each path, and balancing networks bridged across the junction points of the paths at the midpoints of the divided windings.

1,353,638. APPARATUS FOR PRODUCING GASOLENE AND OTHER PRODUCTS FROM HYDROCARBONS. ALVIN A. DAUGHERTY, New York, N. Y. Filed May 23, 1917. Serial No. 170,465. 1 Claim. (Cl. 196—25.)



In an apparatus for producing gasolene from hydrocarbon oils the combination of means for heating said oils to temperatures above 700° F. and at pressures exceeding 300 pounds to the square inch; means for permitting said heated oils to suddenly expand into vapors at substantially the pressure of the atmosphere, a suction apparatus for removing said vapors from said last named means; additional heating means for vaporizing any liquid residue that may collect in said last named means; and means into which said suction means discharges for condensing into a liquid form the vapors thus produced, substantially as described.

1,353,639. VACUUM MILKING-MACHINE. CLAUDE HUDSON DAVIS, Wanganui, New Zealand. Original application filed Nov. 11, 1915, Serial No. 60,893. Divided and this application filed Jan. 4, 1917. Serial No. 140,569. 5 Claims. (Cl. 31—101.)



1. In a milking machine, a milk receiving can, a pulsator comprising a cylinder open at its middle portion to the air, a vacuum connection to said cylinder from said can, a double-ended piston located within said cylinder and having a space open to the atmosphere between the ends of said pistop and having ports communicating with the ends thereof and a passage in communication with vacuum, a slide valve alternately admitting air and

vacuum to the ends of said piston in order to cause it to reciprocate within said cylinder, and means for operating said valve upon the reciprocation of said piston.

2. In a milking machine, a milk receiving can, a pulsator comprising a cylinder open at its middle portion to the air, a vacuum connection to said cylinder from said can, a double-ended piston located within said cylinder and having a space open to the atmosphere between the ends of the piston, a valve face between the ends of said piston, a nipple from said cylinder adapted to be connected to the teat-cup linings, said piston being adapted to alternately admit vacuum and air to said nipple, said piston having a port leading to the said valve face and adapted for constant communication with said vacuum connection, ports leading from the ends of said piston to the said valve face, a slide valve controlling said ports leading to said valve face and means for operating said slide valve upon the reciprocation of the said piston, substantially as set forth.

3. In a milking machine, a milk receiving can, a pulsator comprising a cylinder open at its middle portion to the air, a vacuum connection to said cylinder from said can, a nipple from said cylinder adapted to be connected to the teat cup linings, a double-ended piston within said cylinder having a space betwen said ends open to the atmosphere and an air passage open to said space, said air passage adapted to intermittently admit air to the nipple leading to the teat-cup linings, said piston having ports leading to the ends thereof, a slide valve controlling said ports to admit vacuum and air alternately to the ends of the piston in order to cause it to reciprocate within said cylinder, and said piston being adapted to admit vacuum to said nipple alternately with the air, substantially as set forth.

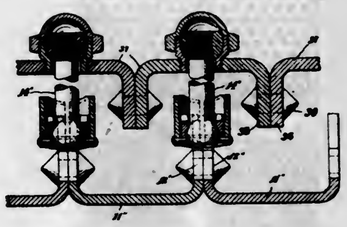
4. In a milking machine, a milk receiving can, a pulsator comprising a cylinder open at its middle portion to the air, a vacuum connection to said cylinder from said can, a double-ended piston located within said cylinder and having a space open to the atmosphere between the ends of said piston, and having ports communicating with the ends thereof and a passage in communication with vacuum, a slide valve adapted alternately to admit air and vacuum to the ends of said piston in order to cause it to reciprocate within said cylinder, a spring operated member pivoted in said cylinder, a wiper located at the end of said member whereby the said slide valve is caused to return when said piston has completed its stroke, substantially as set forth.

5. In a milking machine, a milk receiving can, a pulsator comprising a cylinder open at its middle portion to the air, a vacuum connection to said cylinder from said milk receiving can, a double-ended piston within said cylinder having a space betwen the ends open to the atmosphere and a port leading from said space open to vacuum and ports between the ends of said piston and said open space, a slide valve controlling said ports and means for operating said slide valve upon the reciprocation of the piston, substantially as set forth.

1,353,640. FIRE-BOX FOR BOILERS. CHARLES DUCAS, New York, N. Y. Filed July 10, 1917. Serial No. 179,639. 34 Claims. (Cl. 122—58.)

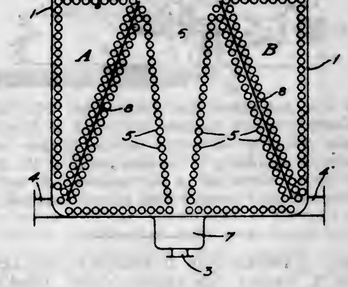
5. A steam-boiler fire-box construction, comprising a wrapper-sheet; a sectional crown-sheet; stay-bolt members movably connected at one end with the wrapper-sheet by a ball and socket universal-joint, and at the other end with the sectional crown-sheet; the sections of the crown-sheet being of substantially U-shape in cross-section and having the side walls thereof secured together; and the side walls of the crown-sheet members being provided with vertical slots to permit of expansion and contraction and prevent distortion of such member by reason of the unequal heating of the central and side walls of such section members, the universal connections connecting the stay-bolt members with the sectional crown-sheet members by their socket portions located in slots formed in the abutting side walls of the sectional crown-sheet members.

22. In combination, wrapper-sheet sections comprising channel members having inwardly turned flanges abutting



the flanges of the adjacent sections; a crown-sheet; and stay bolts having connection with said crown-sheet and the intra-marginal portion of the wrapper sheet sections.

1,353,641. SURFACE CONDENSER. RAYMOND N. EHRHART, Edgewood, Pa. Filed Aug. 21, 1918. Serial No. 250,906. 8 Claims. (Cl. 257—43.)

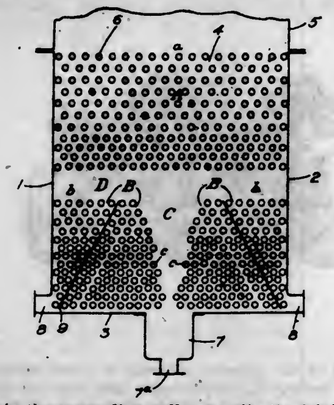


1. In combination in a condenser, a shell having an inlet port, a condensate discharge port and two non-condensable fluid offtake ports, two nests of tubes located on opposite sides of the shell and each served by one of said offtake ports, said nests being so disposed within the shell as to provide a wedge shaped fluid passage between them, and a separate longitudinally extending baffle dividing each nest of tubes into two substantially triangular banks of tubes, both banks being served by the same air offtake port.

1,353,642. CONDENSER. RAYMOND N. EHRHART, Edgewood, Pa. Filed Nov. 8, 1918. Serial No. 261,710. 10 Claims. (Cl. 257—24.)

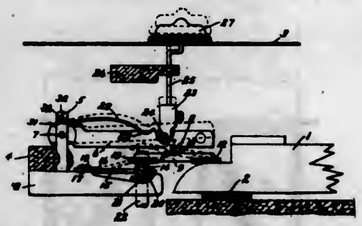
1. In a condenser, a substantially rectangular shell, a condensate outlet adjacent the bottom of the shell, a group of cooling tubes substantially filling the upper portion of the shell and through which fluid is adapted to flow toward the bottom of the condenser, a second group of tubes spaced from and beneath the first group arranged so that the fluid traversing the first group may enter

the top and side of the second group, and fluid extracting means adapted to draw fluid downward toward a



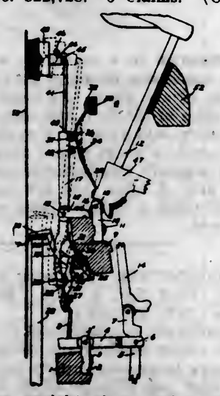
point in the group diagonally opposite the joining corners of the exposed top and side faces of the group.

1,353,643. DAMPER FOR GRAND-PIANO ACTIONS. FRANK L. GEORGE, Los Angeles, Calif. Filed Sept. 9, 1919. Serial No. 322,727. 6 Claims. (Cl. 84—217.)



6. In a grand piano, the combination with a key, a horizontally disposed damper lever and a damper rod; of means pivotally connected to the damper lever for substantially equalizing the action touch of the key irrespective of the movement of the damper rod; said means being in permanent contact with the key and the damper rod.

1,353,644. DAMPER FOR UPRIGHT-PIANO ACTIONS. FRANK L. GEORGE, Los Angeles, Calif. Filed Sept. 9, 1919. Serial No. 322,728. 6 Claims. (Cl. 84—217.)



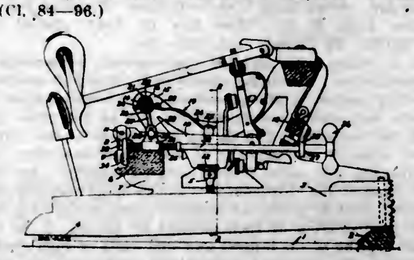
1. A damper for upright piano actions comprising a damper lever, an equaliser pivotally connected intermediate of its ends to the damper lever, a damper rod positioned to carry one end of the equaliser, and a key having means connecting it operatively with the other end of the equaliser.

1,353,645. PIANISSIMO DEVICE FOR UPRIGHT-PIANO ACTIONS. FRANK L. GEORGE, Los Angeles, Calif. Filed Sept. 9, 1919. Serial No. 322,729. 7 Claims. (Cl. 84—61.)



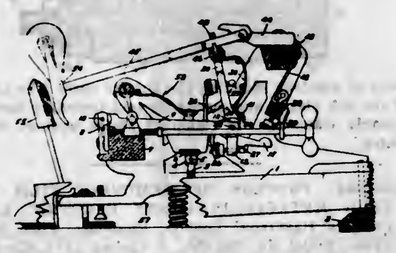
1. A pianissimo device for upright piano actions comprising in combination, action brackets having lower rail abutments extending backwardly from the lower ends thereof and swing supporting arms extending forwardly and opposite to the lower rail abutments, a lower action rail having rigid swing arms extending forwardly and pivotally connected to the swing supporting arms and having capstan screws extending downwardly from the rail and adapted to bear upon the lower rail abutments, upper rail abutments extending backwardly from the action brackets and in vertical alinement with the lower rail abutments, springs inserted between the upper abutments and the lower action rail, hammer rest rail abutments extending forwardly from the upper part of the action brackets, a hammer rest rail having capstan screws extending downwardly from the rail and adapted to bear upon the hammer rest rail abutment, links connecting the hammer rest rail to the rigid swings of the lower action rail and intermediate of their ends, lower action swings connected to the lower action rail and extending forwardly and bearing with their outer ends upon the piano keys, abstract members connecting with the swings carried by the lower action rail and at a proper distance backwardly of the point of bearing upon the piano keys, and jacks connected to the abstracts for operating the hammers.

1,353,646. TOUCH-REGULATOR FOR GRAND-PIANO ACTIONS. FRANK L. GEORGE, Los Angeles, Calif. Filed Sept. 9, 1919. Serial No. 322,730. 3 Claims. (Cl. 84—96.)



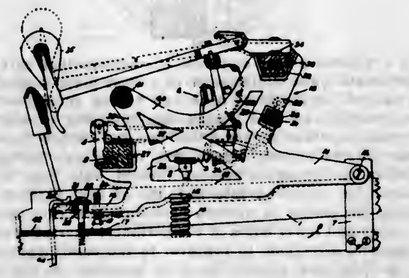
3. A touch regulator for grand piano actions comprising a collective regulating rod having a plurality of slots, hooks disposed outwardly from the rod respectively adjacent to the slots, springs having coils respectively mounted upon the hooks, one end of the springs bearing operatively upon the piano action, and the other end of the spring bearing upon the regulating rod within the slots, and screws inserted through the rod and into the slots for raising and lowering the ends of the springs carried within the slots.

1,353,647. ACTION FOR GRAND PIANOS. FRANK L. GEORGE, Los Angeles, Calif. Filed Sept. 9, 1919. Serial No. 322,731. 5 Claims. (Cl. 84—26.)



1. In an action for grand pianos, a wippen pivotally mounted at one end and adapted to be operated by a piano key, a jack pivotally connected to the free end of the wippen and having an extension below its pivotal point, a heel on said extension, adjusting means mounted on the piano for engaging said heel, a stop on said wippen, adjusting means on said extension for engaging said stop, both adjusting means being adapted respectively to engage said heel and said stop to stop the vibration of the jack upon its upstroke, a hammer, and an adjustable compensating spring connected to the jack and to the shank of the hammer to exert pressure upon all the parts coming under its influence at all times.

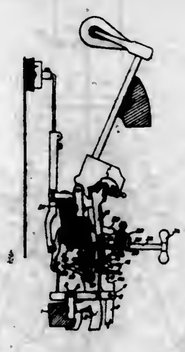
1,353,648. ACTION-BRACKET FOR GRAND PIANOS. FRANK L. GEORGE, Los Angeles, Calif. Filed Sept. 9, 1919. Serial No. 322,732. 7 Claims. (Cl. 84—102.)



1. An action bracket adapted to be pivotally mounted at its forward end, resilient means supporting the rear end of the bracket, an adjusting screw limiting the downward movement of the rear end, an adjusting screw limiting the upward movement of the rear end of the bracket, and means operatively connecting the rear end to a soft pedal.

1,353,649. COMBINATION JACK-SPRING AND TOUCH-REGULATOR FOR UPRIGHT-PIANO ACTIONS. FRANK L. GEORGE, Los Angeles, Calif. Filed Sept. 9, 1919. Serial No. 322,733. 5 Claims. (Cl. 84—96.)

3. In a jack spring and touch regulator for upright piano actions, in combination, brackets adapted to carry piano actions, the piano actions comprising mechanism embodying jacks, jack springs mounted upon the jacks by means adapted to be adjusted vertically whereby the



spring pressure on any individual jack may be varied, and means for collectively varying the spring pressure exerted downwardly upon the jacks by the jack springs.

1,353,650. COMBINED PAIL AND SPRINKLER. BARNETT W. GROVES, St. Petersburg, Fla. Filed Feb. 20, 1918. Serial No. 218,281. 1 Claim. (Cl. 299—102.)

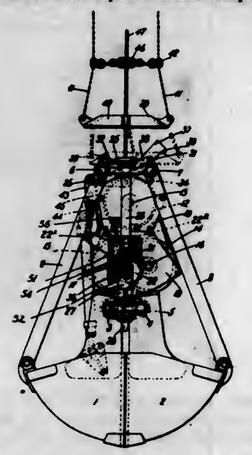


A combined pail and sprinkler comprising a pail having an opening in its bottom wall, a sleeve secured in said opening and projecting above and below the bottom of said pail, the upper portions of said sleeve having inlet openings formed therein, a cap secured over the upper end of said sleeve, a spider secured in said sleeve in the same plane with the bottom wall of the pail and having a central opening and radially arranged outlet openings, a removable sprinkler member mounted on the lower end of said sleeve, a bail handle for said pail, a valve rod having a limited movement through the central opening of the spider and through the cover of the sleeve, a valve rigidly mounted on said valve rod, a flexible member connected with the upper end of said valve rod and with the bail handle of the pail, an operating ring secured in the upper portion of said flexible member whereby a finger may be inserted to raise the valve from position upon the spider without releasing the grip upon the bail handle of the pail, said valve when raised from the spider permitting the fluid from the pail to pass into and through the sleeve and through the openings of the spider, and means surrounding the valve rod between the valve and the cap of the sleeve to resiliently retain the valve in engagement with the spider.

1,353,651. GRAB. DUDLEY JAMES BARNARD, Barking, England. Filed July 14, 1920. Serial No. 396,296. 7 Claims. (Cl. 37—30.)

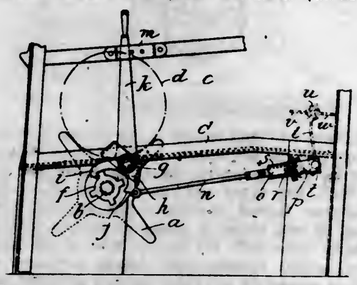
1. In a grab of the kind herein described, the combination of means connecting the cross-beam the power shaft and the top cross bars comprising two vertically disposed telescopic devices arranged one on each side of the grab one member of each device being carried by links mounted between the top cross bars and the other mem-

bers being carried by the cross beam and means for guiding said beam and said power shaft comprising sleeves



or thimbles carried by the frame in which the power sheaves are mounted and adapted to form guides for the telescopic members.

1,353,652. MEANS FOR HOLDING AND RELEASING DEPTH CHARGES, MINES, AND THE LIKE ON BOATS OR SHIPS. JAMES HAMPTON, Southampton, England, assignor of one-half to John I. Thornycroft and Company Limited, London, England. Filed May 23, 1919. Serial No. 299,322. 4 Claims. (Cl. 114—18.)



1. For controlling the discharge of cylindrical mines and the like, the combination with an inclined way embodying a pair of separated guides of a shaft arranged transversely thereto and intermediate of their length, a pair of star wheels carried by said shaft and arranged between the guides, said star wheels being so positioned that one pair of arms of each normally engages the foremost of a series of mines on the guideway and holds it at a position intermediate of the length of the guideway, an escapement wheel upon the shaft aforesaid and arranged to one side of the guideway, an escapement lever and operating means therefor adapted with movement in one direction to release the star wheels so that they can liberate the foremost mine and obstruct the travel of the mine next in order until with a movement of the escapement lever in the opposite direction, the wheels are released again, thereby permitting the wheels to move through a further angle and the arrested mine to follow the same until the normal holding position of the mine is reached.

1,353,653. RAIL-JOINT-COUPLING DEVICE. JOHN HOPKINS HARNSBERGER, Catlett, Va. Filed May 25, 1920. Serial No. 384,084. 3 Claims. (Cl. 238—191.)

2. In a device of the class described, the combination with a rail, of a pair of fish plates engaging said rail, each of said fish plates provided with double beveled outer face portions, a fastening device extending under the rail and through the sides of the fish plates, said fastening device including a fixed and a detachable clamping plate, said clamping plates provided with double beveled inner

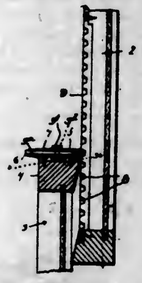


faces or portions engaging the similar outer face portions of the fish plates, and means on said fastening device for securely clamping the clamping plates against the fish plates.

1,353,654. PROCESS OF REMOVING FILM FROM USED METALLIC-FILAMENT ELECTRIC LAMPS. FRANCIS HARRISON, London, England. Filed July 8, 1919. Serial No. 309,386. 3 Claims. (Cl. 87—5.)

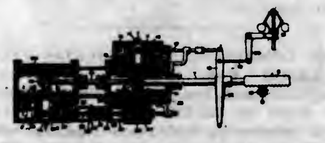
1. The process of removing the film from used metallic filament electric lamps which consists in washing the inner surface of the bulb with hydrogen peroxid.

1,353,655. WINDOW-HOLDER. THOMAS J. HEADY, Cottonwood, Ariz. Filed Aug. 12, 1916. Serial No. 114,603. 1 Claim. (Cl. 292—241.)



In a window holder and lock, the combination with an upper and a lower sliding sash, of a wear plate secured to the mid rail of the lower sash and having an upper concaved surface, an oval shaped cam rotatably carried by the wear plate and covering the concaved surface thereof, a bar carried by one side of the upper sash having a plurality of V-shaped notches therein, said cam being adapted for extending into any one of said notches for holding the sashes in various positions, said cam having the upper and lower edges of the periphery thereof beveled in opposite directions to conform to the configuration of the notches, and permit the easy insertion of the cam therein, as and for the purpose specified.

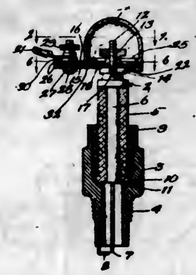
1,353,656. FLUID-OPERATED MOTOR. CHARLES L. HEISLER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 24, 1920. Serial No. 360,939. 4 Claims. (Cl. 121—42.)



1. In an apparatus of the character described, the combination of a fluid actuated motor having a pilot valve, a

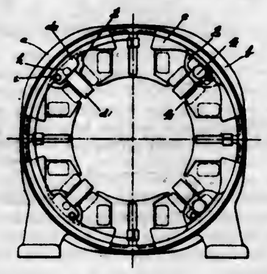
second fluid actuated motor having its moving element connected to the moving element of the first-named motor, and means controlled by the fluid pressure of the first-named motor for admitting fluid pressure to the second-named motor.

1,353,657. SPARK-PLUG INTENSIFIER. RICHARD E. HILDEBRAND, Chicago, Ill. Filed Jan. 29, 1917. Serial No. 145,043. 4 Claims. (Cl. 175—183.)



1. The combination with a spark plug, of an intensifier on the outer or exposed end of the plug having a ring-form electrode and a central electrode with an annular spark-gap therebetween and a transparent hood inclosing intensifier.

1,353,658. DYNAMO-ELECTRIC MACHINE. JAROSLAW K. KOSTKO, St. Louis, Mo. Filed Dec. 18, 1916. Serial No. 137,678. 6 Claims. (Cl. 171—252.)



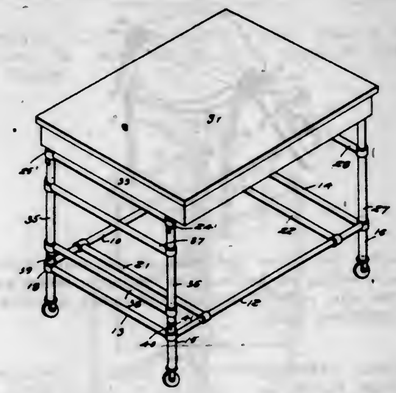
4. In a dynamo-electric machine, a supporting structure comprising a ring with lateral projections and a ring attached to the said projections, yoke laminations and field poles thereon mounted between said rings, said laminations being centered by said projections, the outer surfaces of the projections being in contact with the inner edges of said yoke laminations.

1,353,659. STOCKING. WILLIAM J. LONGTIN, Philadelphia, Pa., assignor to Allen Hosiery Company, Wayne Junction, Germantown, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1919. Serial No. 343,857. 1 Claim. (Cl. 66—4.)



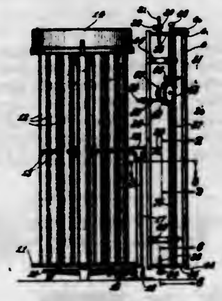
A stocking having a leg portion consisting of a continuous knitted tubular web, provided at the back with a lengthwise reinforcement stripe, having a lengthwise running line of stitches, said reinforcement and stitches constituting an emphasized seam, substantially as described.

1,353,660. SERVING-TABLE. FREDRICK P. MAIN, Cleveland, Ohio. Filed Mar. 18, 1920. Serial No. 366,770. 3 Claims. (Cl. 45—31.)



1. In a table, a base portion and a structure carried thereby and comprising a plurality of arch-shaped frame members, and a top supported by said arch members, the arch members each including one side element mounted to swing inwardly toward the center of the arch, the other side elements and the horizontal elements of the arch members being fixed rigidly with relation to the base portion.

1,353,661. MEASURING AND CUTTING MECHANISM. JOHN L. MUELLER, St. Louis, Mo. Filed July 23, 1917. Serial No. 182,337. 14 Claims. (Cl. 33—129.)

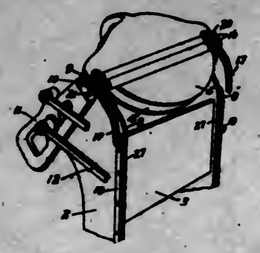


1. In a device of the class described, a dispensing carrier constructed to support a roll of goods and permit the goods to be unrolled therefrom, a support over which the goods are adapted to be drawn, constructed and positioned to form a pronounced bend in the goods, said support having a cutting slot extending therealong and at the bend formed in the goods, and a measuring device having a wheel engaging the goods at a point coincident with said slot as the goods pass over said support.

1,353,662. CHROMO-ROLLERS FOR PRINTING-PRESSES. MENELAUS G. MURUFAS, Los Angeles, Calif. Filed Dec. 11, 1919. Serial No. 344,162. 2 Claims. (Cl. 101—195.)

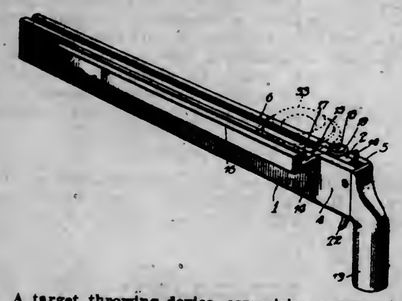
1. In a printing press, an inking plate spaced above the usual inking plate, tracks on said upper plate, ink rollers arranged to travel over the usual inking plate and the chase of the press, other ink rollers arranged to travel over said upper inking plate and said chase, additional

tracks secured to the frame of the press adjacent the usual ink roller tracks of the press, said additional tracks extending from the lower end of the tracks on said upper inking plate, and a pair of track rollers on each end of



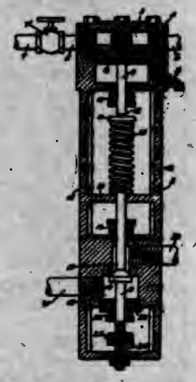
said other ink rollers, one roller of said pairs of track rollers traveling on the tracks on said upper inking plate, and the other roller of said pairs of rollers traveling on said additional tracks.

1,353,663. TARGET-THROWING DEVICE. CHARLES H. NAPIER, Macon, Ga. Filed Feb. 6, 1920. Serial No. 356,763. 12 Claims. (Cl. 124—3.)



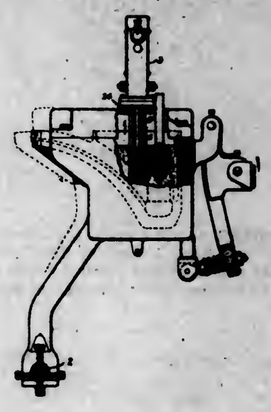
1. A target throwing device, comprising a support providing a flat surface over which a target may be caused to travel, a guide rail extending along said surface, a target discharging member adapted to move a target over said surface for discharging the same from said device, and friction means on said rail adapted to contact with the target and cause the rotation thereof during its travel over said surface.

1,353,664. AUTOMATIC FUEL-SAVER. CARL A. NORALL, Ajo, Ariz. Filed Jan. 2, 1920. Serial No. 348,981. 5 Claims. (Cl. 158—45.5.)



1. An automatic fuel regulator comprising a body frame having at one end, a steam head and at the other an oil chamber with means for connecting to a source of supply; a piston in the steam head having a stem with a valve for controlling flow of oil from the oil chamber; means for normally moving the valve toward its seat; and adjustable means on the stem for limiting its opening position.

1,353,665. TEMPERATURE-CONTROLLER. ALBERT N. OTIS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 18, 1918. Serial No. 245,457. 6 Claims. (Cl. 219—19.)



1. The combination with an electrically heated melting pot mounted for movement in a definite plane and a thermostatic device for controlling the temperature of the pot mounted thereon, and having a thermostatic element projecting into the pot and an external switch element operated by the thermostatic element in a plane perpendicular to the plane of movement of the pot.

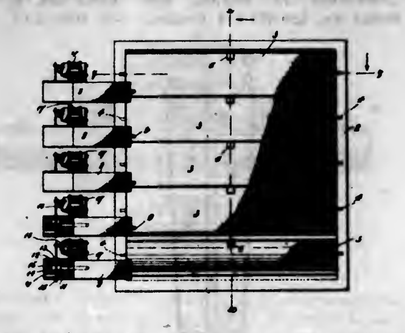
1,353,666. WING AND SIMILAR MEMBER OF AIRCRAFT. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed July 6, 1920. Serial No. 394,148. 10 Claims. (Cl. 244—12.)



1. In aeroplane flying machines; wings and similar members each constructed with a small forwardly located auxiliary wing, separated from the main wing to produce a comparatively narrow through slot extending substantially throughout the wing in a direction transversely of the line of flight, said auxiliary wing having its nose located at the approximate level of the nose of the main wing and said auxiliary wing having its angle of incidence less than the angle of incidence of the main wing so as to mask the leading portion of said main wing.

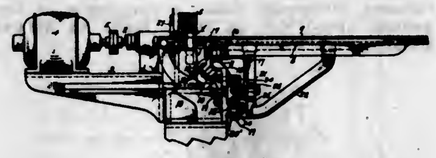
1,353,667. SWELL-BOX FOR PIPE-ORGANS. WALTER C. REED, Dalton, Mass., assignor to Philip W. Goewey, Pittsfield, Mass. Filed Nov. 23, 1916. Serial No. 132,991. 4 Claims. (Cl. 84—23.)

1. A swell box for pipe organs comprising a series of shutters each provided with means including an electromagnet for operating it independently of any other shutter, in combination with a set of brushes electrically connected respectively to the several magnets, a blade movable into and out of contact with said brushes successively, magnet-energising circuits including said blade and



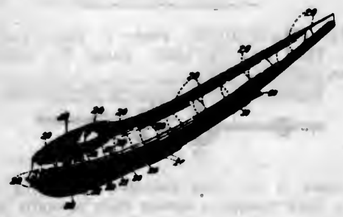
brushes, blade-operating means comprising two pneumatic motors acting in opposition to each other, and means for independently controlling said motors.

1,353,668. TRIMMING AND FINISHING MECHANISM. HOWARD REYNOLDS, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Nov. 12, 1915. Serial No. 61,033. 3 Claims. (Cl. 90—58.)



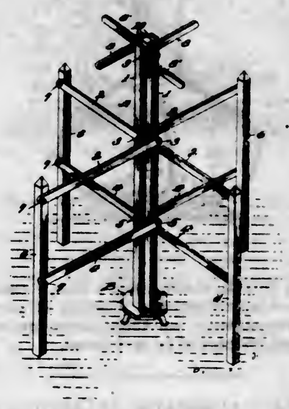
1. In a trimming mechanism, the combination of a trimmer, a frame mounted below the trimmer and closely adjacent thereto, a work support which can be freely pushed or pulled in either direction by the hand of the operator along the frame and supported thereon at one side only, a bearing and guiding surface on one of the vertical sides of the frame, a guiding and bearing surface on the opposite vertical side of the frame, these surfaces being arranged angularly with respect to each other, a second frame carried by the work support, and bearing members carried by the work support and the second frame taking against the bearing surfaces for preventing the support from tipping out of position when moved along the frame.

1,353,669. FLYING-BOAT OR OTHER LIGHT MARINE VESSEL. HUBERT SCOTT-PAINE, Southampton, England. Filed Apr. 22, 1920. Serial No. 375,881. 4 Claims. (Cl. 114—66.5.)



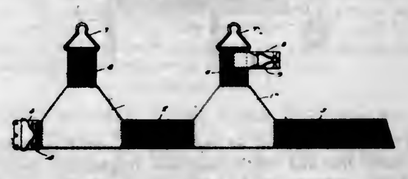
1. In a light marine vessel having laterally extending side-wings flared as to their underside at and above the level of the water-line along the fore-part of the vessel, the construction wherein the said side-wings are extended forward and around the nose to meet one another and are flared on the underside of said extension, substantially as described.

1,353,670. CLOTHES-DRIER. JOHN STRAITH, Richmond, Va. Filed July 11, 1919. Serial No. 310,142. 2 Claims. (Cl. 68—34.)



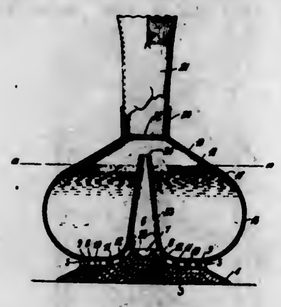
1. A clothes drier comprising a vertical supporting standard having integral longitudinal ribs formed at right angles to each other and forming elongated longitudinal triangular spaces, a plurality of vertical angular posts of a cross-sectional size to fit in said angular spaces, two horizontal arms for each post, the inner ends of the arms pivoted to the outer sides of the longitudinal ribs and their outer ends pivoted to the corresponding sides of the posts, whereby when the arms are folded the posts will fit into the elongated angular spaces of the supporting standard, for the purpose described.

1,353,671. STOCKING-SUPPORTER. CLARE MACDONALD SUPPLE, Boston, Mass. Filed Apr. 2, 1920. Serial No. 370,764. 2 Claims. (Cl. 241—1.)



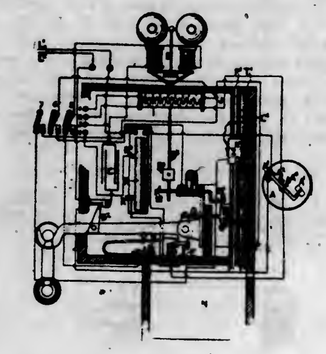
2. As a new and useful article of manufacture, a stocking supporter adapted to be worn about the stocking below the knee of the wearer, and including spaced textile sections with upwardly tapered and truncated upper portions, an elastic section interposed between and permanently connecting the adjacent ends of the lower portions of the textile sections, an elastic strap permanently joined to the outer end of the lower portion of one textile section, a buckle connected through a tape section with the outer end of the other textile section, elastic sections permanently joined to and extending upwardly from the truncated upper ends of the textile sections and means at the upper end of the said upwardly extending elastic sections to connect the same to corset appurtenances; one of the said upwardly extending elastic sections being equipped with a lateral subsection carrying fastening means to connect the upper portion of a stocking thereto.

1,353,672. FLYTRAP. FRANK SWICKARD, Fort Bridger, Wyo., assignor of ninety-nine per cent. to Laura J. Swickard, Fort Bridger, Wyo. Filed Jan. 23, 1920. Serial No. 353,542. 3 Claims. (Cl. 43—122.)



1. In a fly trap, in combination, a base, a vessel on said base and forming therewith a plurality of entrance and reëntrant passageways; entrance means for said vessel and an insecticide carried by said vessel.

1,353,673. AUTOMATIC TELEPHONE SYSTEM. HENRY SYMES, Dunedin, New Zealand. Filed Nov. 9, 1916. Serial No. 130,423. 1 Claim. (Cl. 179—6.4.)



A telephone system of the class specified comprising the usual line and line connections, transmitter, receiver, hook arm, contact and an automatic caller, of a coin slot apparatus connected in circuit with the system and consisting of a plurality of elements having slots therein of different dimensions to receive coins of different thicknesses, a forked rod connected to and operated by the hook lever when the latter is released, the forks of the rod transversely entering the slots of the elements, a slidable rod operative by the automatic caller to make and break the circuit through the said contact and a slide having projecting means extending into the wider slot of the slotted element, the slide contact and the contacts of the elements exposed to the slots in the latter all being electrically connected with the circuits of the system for completing the circuits by the insertion of coins in the slots whereby a sender's or receiver's instrument may be converted from the usual automatic exchange operating instrument into coin-in-slot telephone instruments under operation of the person calling and person called.

1,353,674. BLOWER-PIPE, WIND-BREAK, AND SILAGE-DISTRIBUTER. ALFRED M. TAMM and JOHN TENNESSEN, Jr., Brillion, Wis. Filed Oct. 9, 1919. Serial No. 329,637. 4 Claims. (Cl. 302—10.)



1. An attachment or device of the character described, comprising a truncated inverted substantially conical shaped skeleton frame, a reticulated body within said frame and coextensive therewith, and an annular shield within the reticulated body at one end thereof.

1,353,675. SWITCH-HANDLE. GEORGE B. THOMAS, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 28, 1919. Serial No. 341,042. 4 Claims. (Cl. 200—172.)



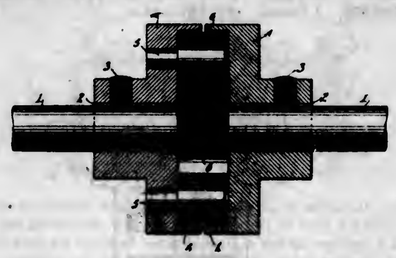
1. A handle for rotary snap switches comprising a thumb piece recessed to form a well non-circular in cross section, a stem arranged in said well, a ratchet element fast on said stem, a coöperating ratchet element freely mounted on said stem, but engaged in said well, a spring for maintaining said ratchet elements in coöperating position, and means on said stem accessible from the outer end of the switch handle for rotating said stem, together with screw means at the opposite end of said stem for connecting the handle to the spindle of the switch operated thereby.

1,353,676. CHAIN-HOOK. PERRY D. THOMPSON, Tulsa, Okla. Filed May 11, 1920. Serial No. 380,570. 3 Claims. (Cl. 24—241.)



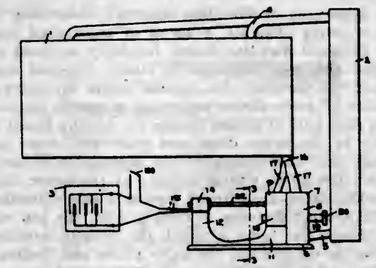
1. A hook of the class described comprising a plate having a hook therein, a second hook pivotally mounted on the plate and having a portion adapted to close the opening of the hook on the plate and means for slidingly connecting the plate to its carrying member so that said carrying member will hold the hooks in engagement when said member is slack.

1,353,677. FLEXIBLE COUPLING. GEORGE EDWARD TOMLINSON, Winchester, Ky. Filed Oct. 18, 1919. Serial No. 331,571. 8 Claims. (Cl. 64—96.)



1. A flexible coupling, including a pair of supporting members, studs projecting from one of the faces of each such supporting members, and resilient means adapted to be associated with each of such studs, the resilient means associated with one of such members being adapted to engage with the resilient means associated with the opposite member.

1,353,678. ANTIFREEZE DEVICE FOR RADIATORS. JOHN TORRENT, Jr., Muskegon, Mich. Filed May 21, 1920. Serial No. 383,236. 1 Claim. (Cl. 123—175.)



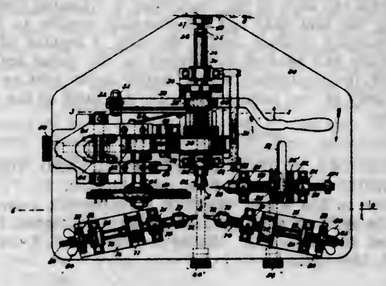
In a device of the class described, an internal combustion engine; a radiator; a conduit extended between the engine and the radiator; a casing interposed in the conduit, the casing having communicating compartments of different diameters; shafts journaled in the compartments; pumping means carried by the shafts and located in the respective compartments; means for driving the shaft of the larger compartment from the engine; an electrical motor operatively connected with the shaft of the smaller compartment; and a base plate carrying both the casing and the motor.

1,353,679. FOUNTAIN MUCILAGE-BRUSH. PETER I. VENARD, Denver, Colo. Filed Feb. 20, 1919. Serial No. 278,126. 7 Claims. (Cl. 91—67.2.)



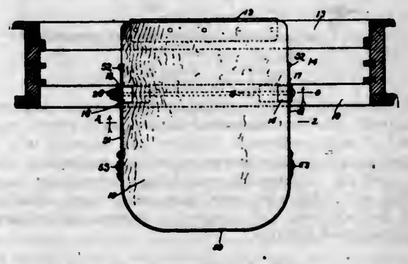
4. In a fountain dispensing device, a barrel having an outlet in its front end, a collapsible tube in said barrel communicating with said outlet, a longitudinal presser bar in said barrel bearing against said tube, and means for moving the full length of said presser bar inwardly and at the same time moving its rear end a greater distance than its front end, whereby to feed the contents of the tube forwardly from the rear end of such tube.

1,353,680. SHANK-BUTTON MACHINE. BEDRICH VESELY and WILHEM FAJMAN, New York, N. Y. Filed Aug. 15, 1919. Serial No. 317,802. 13 Claims. (Cl. 79—1.)



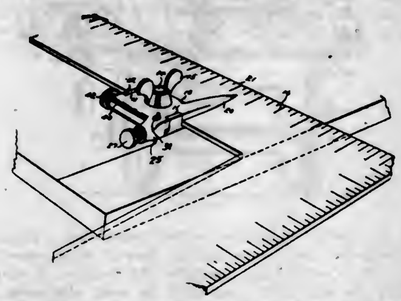
1. In a shank button machine, the combination of a holder for the button, a cutting device for coöperation with the button to form the shank, means to bring the button into cutting position, and means to rotate both the cutting device and the button simultaneously.

1,353,681. WINDOW-SEAT. LUIGI VIEZZI, West New York, N. J. Filed July 7, 1919. Serial No. 308,972. 3 Claims. (Cl. 304—24.)



1. A window seat, comprising a platform provided at its forward end with a hook adapted to hook onto the front edge of the window sill, two rests provided with guideways slidably engaging the sides of the platform and adapted to abut against the outer edge of the sill and to rest on the subsill, and a bolt having a nut at one end and connecting the said rests with each other, said bolt forming the only connection between the rests and serving to adjustably secure said rests on the platform.

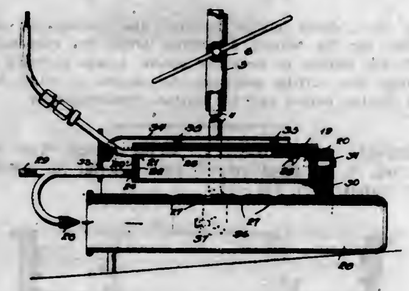
1,353,682. SCRIBER. LUIGI VIEZZI, West New York, N. J., assignor of one-half to Frederick L. Robitsch, Union Hill, N. J. Filed Oct. 24, 1919. Serial No. 332,883. 2 Claims. (Cl. 33—173.)



1. A scriber for attachment to a straight edge, square or similar drafting implement, comprising a body, a clamp-

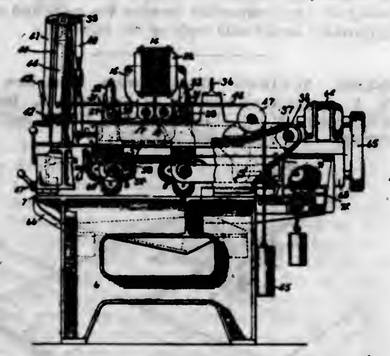
ing member adapted to coact with the under side of the body to clamp the scriber in place on the implement, the said clamping member having guide arms slidingly engaging the said body, the guide arms forming an abutment for the edge of the implement, a clamping bolt engaging the said body and the clamping member to draw the clamping member toward the body, a pointer on the said body and adapted to indicate on the linear graduation of the implement, and a scriber point held on the said body in the same plane with the point of the said pointer.

1,353,683. OIL-BURNER SYSTEM AND TORCH THEREFOR. PERCY WADE, Washington, D. C., assignor to The Weldit Company, a Partnership composed of Percy Wade and Carl L. Cameron, Washington, D. C. Filed Oct. 20, 1919. Serial No. 331,768. 5 Claims. (Cl. 158—53.)



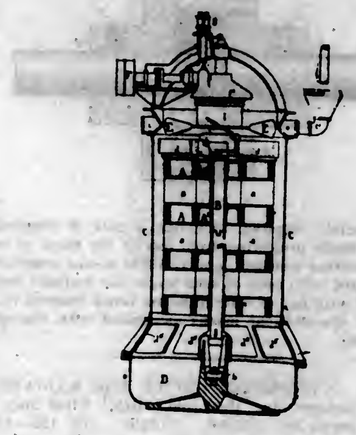
2. In combination, a cylindrical combustion chamber, a relatively smaller cylindrical retort, said retort superposed of said combustion chamber and mounted in a rectangular casing made unitary with said combustion chamber, and the said mount comprising perforations in said casing and bifurcated ends upon said retort slidable in said perforations, and means for locking said slides in predetermined relation.

1,353,684. WELDING-MACHINE. ROBERT E. WAGNER and WESLEY E. LAIRD, Pittsfield, Mass., assignors to General Electric Company, a Corporation of New York. Filed Apr. 9, 1919. Serial No. 288,780. 15 Claims. (Cl. 219—4.)



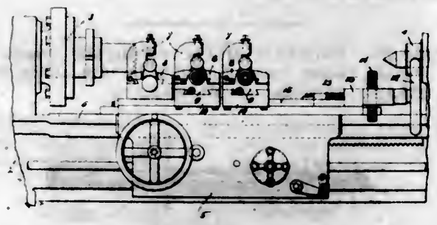
1. An electric resistance welder comprising a plurality of electrodes operable in tandem linearly with respect to the work, a coöperating electrode and a source of current having its terminals connected to said electrodes for passing current through the work between said respective tandem electrodes and said coöperating electrode.

1,353,685. APPARATUS FOR TREATING GASES WITH LIQUIDS. GEORGE HENRY WALKER, Worcester, England, assignor to Heenan & Froude, Limited, Manchester, England. Filed May 31, 1916. Serial No. 100,959. 1 Claim. (Cl. 261—85.)



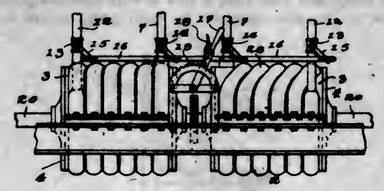
An apparatus of the class described comprising a vertical inclosing chamber, a series of superposed horizontally arranged disk-like drums revolubly mounted in the chamber and each composed of closely disposed convolutions of flat material with narrow spaces therebetween, a plurality of guide plates assembled in spaced relation between each pair of drums, means for feeding liquid downwardly to the upper drum and from the latter passing through the convolutions of the several drums and also between the guide plates, troughs at the lower edges of the guide plates, each trough having a side extending upwardly a short distance to form a weir, the top edge of each trough also being serrated, the troughs catching and holding the liquid from the guide plates and feeding it to the drums below, and means for inducing a flow of gas upwardly through the chamber and the guide plates and between the convolutions of the drums.

1,353,686. MULTIPLE-TOOL LATHE. WILLIAM W. WALLACE, Bucyrus, Ohio, assignor to Raymond C. Penfield, Chicago, Ill. Filed June 14, 1918. Serial No. 239,970. Renewed July 3, 1920. Serial No. 393,984. 2 Claims. (Cl. 82—25.)



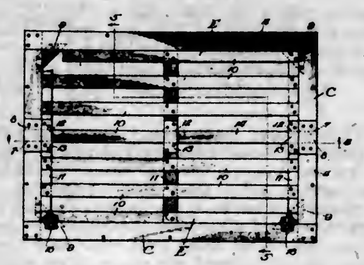
2. A lathe having means for supporting and rotating the work about an axis, in combination with a tool carriage, a plurality of tool holders mounted on said carriage for adjustment transversely of said axis, a reciprocating cam plate mounted on said carriage and connected with said tool holders to adjust them simultaneously in a direction transverse to said axis, and screw threaded means for moving said cam plate to effect said adjustment.

1,353,687. TURBINE-ENGINE. CANARD J. WALTERS, Ellamar, Alaska. Filed July 31, 1917. Serial No. 183,784. 1 Claim. (Cl. 253—47.)



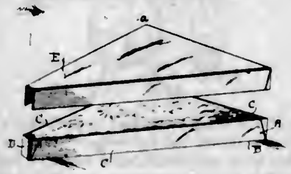
In a turbine engine, a rotor having a series of pockets in the periphery thereof, each pocket having a radial end wall and an inclined bottom wall, a stator having a series of pockets in its inner periphery, said second named pockets being similar to and disposed reversely with respect to the first named pockets, an arcuate passage extending outside of said series of second named pockets, and a series of velocity increasing passages having their receiving ends leading from said passage and their discharge ends leading through the radial end walls of said stator pockets, the stator being also formed with annular transfer passages establishing indirect communication through the chamber to the succeeding passage.

1,353,688. KNOCKDOWN CRATE OR BOX. JACOB L. WEBER, Chicago, Ill. Filed Jan. 19, 1920. Serial No. 352,283. 2 Claims. (Cl. 217—15.)



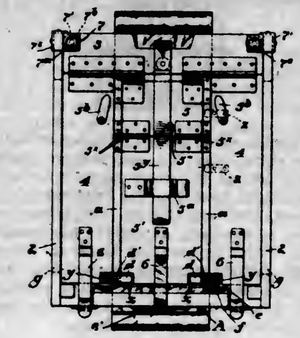
1. A collapsible crate comprising a top, a removable closure slidably disposed in said top, a bottom, collapsible ends hingedly connected to said top and said bottom and folding inwardly to permit the crate to be collapsed, sides hingedly connected at their upper longitudinal edges to said top to permit the former being swung upwardly into parallel alinement with said top and said bottom, a transverse partition hingedly connected to said bottom and normally maintained in upright position to hold said sides in operative position, a locking member carried by said top to maintain said partition in upright position, and U-shaped keepers hingedly secured to said bottom and adapted to receive the slidably disposed closure in said top to hold the crate in collapsed condition.

1,353,689. TRAY FOR LUNCH-BOXES. WILLIAM H. WILKIE, Detroit, Mich. Filed Dec. 9, 1919. Serial No. 343,534. 1 Claim. (Cl. 220—62.)



A triangular-shaped tray comprising a triangular-shaped blank bent along the longitudinal sides thereof to provide side flanges, and also bent along the base of said triangular-shaped blank to provide a base flange, said blank being notched at the ends of the base flange and toward the apex of said triangular shaped blank, said notches, at the apex portion, providing a flap, said flap being bent upward and the sides of said flap being bent against the exterior face of the side flanges, in combination with a triangular-shaped cover, the apex of which is cut away, said cover being provided with side flanges, said side flanges being adapted to bear against the side flanges of the tray, the apex flap of the tray being exposed, when the cover is in place, thus permitting said flap to be bent downward to expose the contents of the tray.

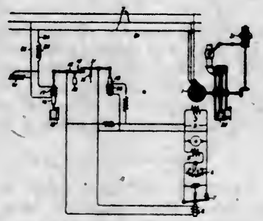
1,353,690. PROCESS AND APPARATUS FOR MAKING PHOTOGRAPHIC PRINTS. CHARLES W. WILSON, York, Pa. Filed June 21, 1917. Serial No. 176,212. 12 Claims. (Cl. 95—77.)



1. In apparatus for printing from photographic negatives, the combination of a frame having a front portion and a movable back and a modifying member within the frame, backed by and resting against the film and having its exposed surface adapted to receive and hold modifying material, said member together with the negative and the paper to be printed being held by and between said front and back portions of the frame and said member serving as the outer retaining wall or layer at the front of the frame, substantially as described.

11. In combination in a photographic printing frame, a main frame portion, a plurality of hinged back sections, a catch for the central section adapted to be released by pressing down thereon, and catches for the adjacent side sections adapted to act as supporting feet for the frame when set up, and releasable by raising their outer ends, substantially as described.

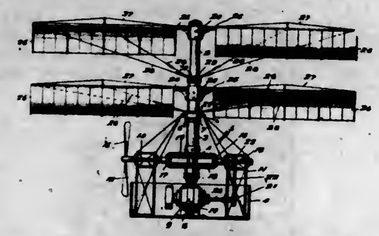
1,353,691. VOLTAGE-REGULATOR FOR ALTERNATING-CURRENT GENERATORS. FRED H. WINTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 1, 1919. Serial No. 280,072. 7 Claims. (Cl. 171—119.)



1. In combination an alternating current generator, means for operating said generator to deliver currents at

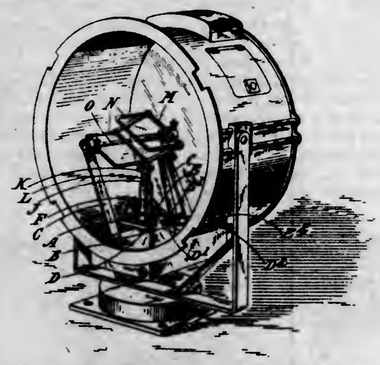
different frequencies, a regulator for said generator adapted to maintain the voltage of said generator substantially constant under varying loads when the frequency remains constant, and means responsive to the frequency of the current supplied by said generator for changing the setting of the regulator in such a manner that it will maintain a voltage which varies directly with the frequency of the current delivered.

1,353,692. AEROPLANE. PAUL TIMBERLAKE WOLFE and WILLIAM HENRY BOYARD, Los Angeles, Calif. Filed Nov. 25, 1919. Serial No. 340,456. 3 Claims. (Cl. 244—19.)



1. An airship, comprising a car, a vertical post projecting upwardly from the car, tubular shafts on the posts, rotary planes projecting laterally from the vertical tubular shafts, frames on the car projecting upwardly from the car, alined shafts in said frames, means for transmitting motion from one of the horizontal shafts to the tubular shafts to turn the latter in opposite directions, means for transmitting motion from the tubular shafts to the other horizontal shafts, a propeller on one of said horizontal shafts, and means for transmitting motion to one of said horizontal shafts.

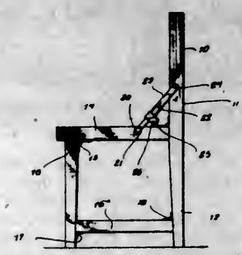
1,353,693. MAGNETIC DEFLECTOR FOR ELECTRIC ARCS IN LAMPS, SEARCHLIGHTS, AND THE LIKE. JOHN PALEY YORKE, Westminster, London, England. Filed June 25, 1918. Serial No. 241,773. 10 Claims. (Cl. 176—118.)



1. A magnetic arc deflector for an electric arc-lamp, comprising a plurality of magnetic field-producing means coöperating to form a resultant magnetic field acting on the arc, and means for imparting to the magnetic field-producing means a motion in either of two planes perpendicular to each other and transverse to the arc.

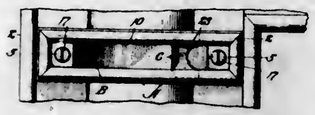
1,353,694. FOLDING CHAIR. JOHN S. ZAKRZWSKI, Fullerton, Nebr. Filed May 17, 1920. Serial No. 381,885. 2 Claims. (Cl. 155—141.)

1. A folding chair comprising a back having legs extending rigidly therefrom, a seat hingedly secured to the rear legs, and front legs each hingedly secured to the seat and capable of folding against the bottom thereof, side rungs having their opposite ends hingedly connected to the front and rear legs, a link having one end pivotally secured to the side edge of the chair seat, a link having



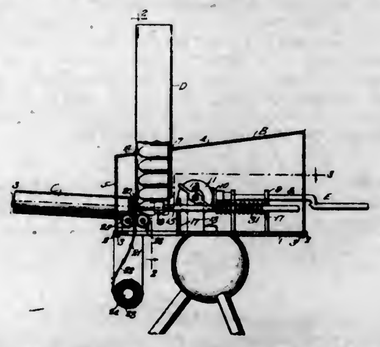
one end pivotally secured to the side edge of the chair back, a pivot connecting the adjacent ends of the link, an arm carried by and spaced from the end of the pivot carried link, a hook formed in the extremity of the arm and a latch pivoted to the bottom of the chair seat for engagement with said hook.

1,353,695. SHADE-BRACKET. ALEXANDER ZEBROWSKI, Stamford, Conn. Filed May 14, 1920. Serial No. 381,277. 2 Claims. (Cl. 156—24.)



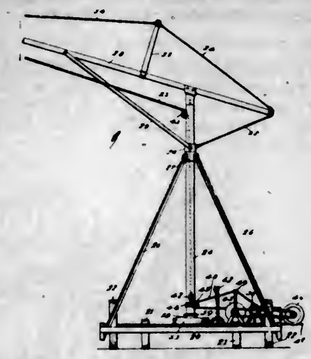
2. An adjustable shade bracket comprising front and rear plates, the former being provided with grooves in its rear face and a central opening, means for clamping the plates together, and a shade hanger projecting through said opening and having a rear portion disposed between the plates provided with means engageable in a groove in the rear face of the front plate when said plates are clamped together to secure the hanger in an adjusted position with respect to said plates.

1,353,696. TOY MACHINE-GUN. HYMAN ABRAMOWITZ, New York, N. Y. Filed Aug. 15, 1918. Serial No. 250,047. 5 Claims. (Cl. 124—13.)



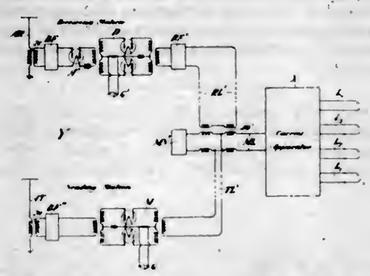
1. A toy of the class described comprising a magazine for projectiles, a feeder for a detonator tape, a projecting pin associated with the magazine, a hammer for firing the detonators of the tape successively, a cocking and releasing means for the pin and hammer, and an actuating element for the said means.

1,353,697. HOISTING-CRANE OR STACKER. RAYMOND K. ADAMS, Dwyer, Wyo. Filed Sept. 20, 1919. Serial No. 325,089. 5 Claims. (Cl. 179—170.)



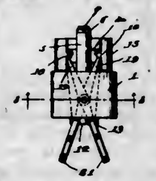
1. A hoisting mechanism of the class described having a base, a crane post revolubly mounted thereon, a crane arm carried by the post, a hoisting cable, means for securing the post against revoluble movement, a cross head having at one end a guide for said hoisting cable, a supplemental cable connected with the other arm of the cross head, and hoisting mechanism having independent drums for said hoisting and said supplemental cables.

1,353,698. COMBINED CARRIER AND RADIO SYSTEM. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 30, 1919. Serial No. 327,458. 4 Claims. (Cl. 250—6.)



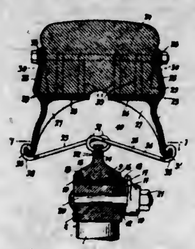
1. In a signaling system, a plurality of low frequency signaling lines incoming to a carrier station, means at said carrier station for translating signals from said lines into carrier currents, a carrier transmission line upon which said translated signals may be superposed, said carrier line extending from said carrier station to a radio station, and means at said radio station for translating said carrier frequencies into radio frequencies for radiation to a distant radio receiving station.

1,353,699. ELECTRIC PLUG. ARTHUR AGUBER, West Somerville, Mass. Filed Nov. 3, 1919. Serial No. 335,466. 2 Claims. (Cl. 173—360.)



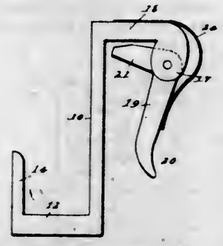
1. A plug of the class described comprising a body, a spring collar connected with the body, a pair of arms passing through the body and pivotally connected therewith, the inner ends of said arms being connected with the collar and handles on the other ends of said arms for moving the outer ends of the arms toward each other.

1,353,700. VEHICLE-WHEEL. WILLIAM N. ALLAN, San Antonio, Tex. Filed Aug. 8, 1919. Serial No. 316,161. 4 Claims. (Cl. 152—8.)



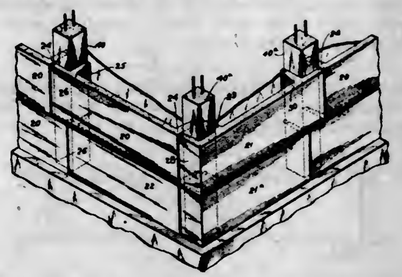
3. A tire comprising a removable rim having a flange, a plurality of alternately arranged clips at opposite sides of the tire provided with inwardly projecting horizontal flanges terminating at distances apart from each other, the inner extremities of the clips being reduced and formed with hooks, a plurality of flat springs having opposite hooked terminals respectively engaging and removably connected to the hooks at the inner extremities of the clips and the rim flange, and a yielding tread disposed between the clips and bearing on the flanges of the latter and connected to the outer extremities thereof.

1,353,701. SEAT-HOOK. ARTHUR M. ALLEN, Hope, Ark. Filed Jan. 22, 1919. Serial No. 272,540. 2 Claims. (Cl. 155—5.)



1. The combination with a seat hook, of a pivoted member including an arm connected with the hook and projecting above and engaging the edge of a wagon body, and an arm brought into positive engagement with the side of the body under pressure exerted on the seat and transmitted through the arm first named.

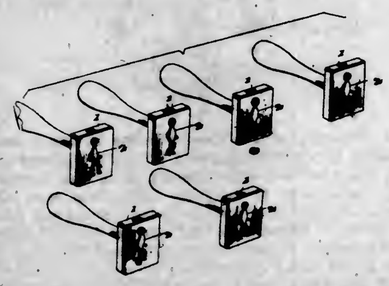
1,353,702. BUILDING CONSTRUCTION. CHARLES J. ASCHAUER, Decatur, Ill. Filed Mar. 17, 1919. Serial No. 283,090. 6 Claims. (Cl. 72—30.)



6. In a system of building construction pre-cast unitary wall blocks each block presenting at one end thereof an

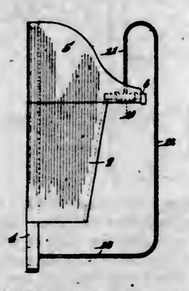
inwardly directed pocket-wall lug and presenting a second inwardly directed pocket-wall lug sufficiently distant from the opposite end for the face of the block to present beyond the end of the lug an extending member to constitute a third pocket-wall, run-in-place posts molded in said pockets and forming the sole frame-work for said wall blocks, the inner ends of said lugs and the inner faces of said posts being in a plane to adapt them to receive plaster thereon to thereby form air spaces between the plaster and the said blocks.

1,353,703. TOY. FAY LEON BABCOCK, Largo, Fla. Filed June 7, 1920. Serial No. 387,149. 4 Claims. (Cl. 101—405.)



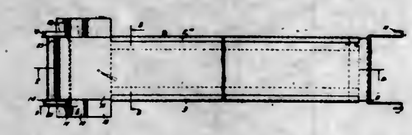
1. A toy comprising a series of elements adapted to transfer an impression onto a surface, the impression forming portions of the elements representing successive positions of an object in motion.

1,353,704. TOWEL-CABINET. WILLIAM W. BAGLEY, Chicago, Ill., assignor to Jacques Rousso, Los Angeles, Calif. Filed May 10, 1917. Serial No. 167,810. 2 Claims. (Cl. 45—32.)



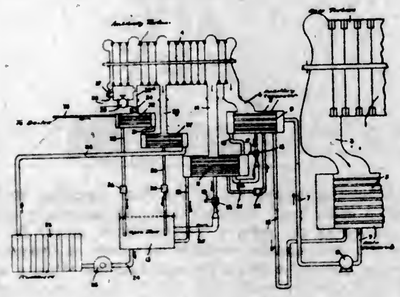
1. A towel cabinet comprising a supporting shelf, there being a towel receiving opening in said cabinet behind said shelf, permitting the ends of towels on said shelf to depend therethrough; a shield arranged under said shelf below and surrounding said opening, said shield being of a depth substantially equal to the depending portion of towels; and a towel guide member associated with said shelf substantially as described.

1,353,705. FILM-HOLDER. CHARLES LOUIS BAMBRICK, Brooks, Alberta, Canada. Filed Oct. 7, 1919. Serial No. 329,118. 5 Claims. (Cl. 95—100.)



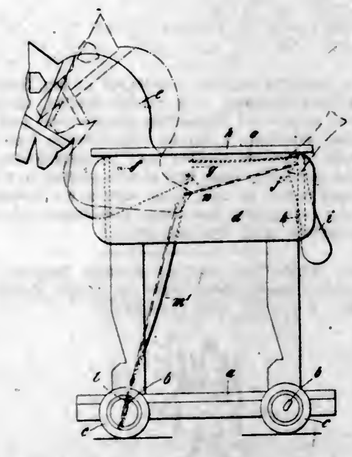
1. A holder for films and plates during the time of development comprising a base, a pair of clamping members frictionally held on said base at the edges thereof, said clamping members having overhanging flanges for receiving films and plates, and means connected with one end of said base adapted to engage a tank for supporting the base and parts carried thereby when placed in a tank.

1,353,706. REGENERATIVE POWER INSTALLATION. PAUL A. BANCEL, Nutley, N. J., assignor to The Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 21, 1918. Serial No. 250,812. 14 Claims. (Cl. 60—95.)



1. In a power installation, a main power unit and condenser, an auxiliary power unit comprising a turbine, an auxiliary condenser for said turbine, a plurality of feed water heaters supplied with steam at different temperatures taken from different stages of said auxiliary power unit and means for passing the condensate from said main condenser through said auxiliary condenser and said heaters progressively so that the temperature of said condensate will be gradually raised in its passage through said heaters.

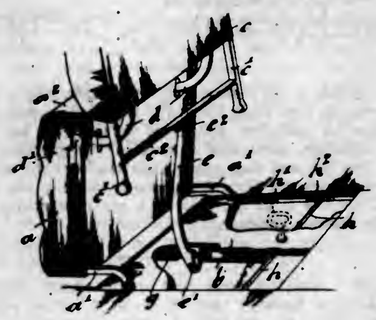
1,353,707. TOY ANIMAL. JOSEPH BARNARD, Hackney, London, England, assignor to Harris Ephraim Bloch and George Getzel Bloch, Birmingham, England. Filed Dec. 9, 1919. Serial No. 343,452. 4 Claims. (Cl. 46—45.)



1. In a toy animal, the combination of wheels for traveling on the ground, a cranked axle on which the said wheels are mounted, a pivotally mounted part of the animal, a flexible cord connecting the cranked part of the axle to

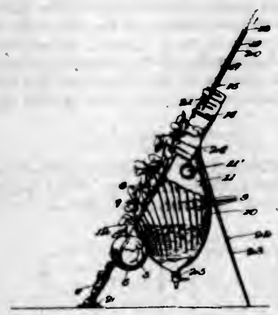
the pivoted part of the animal, and a stop limiting the movement of the said part of the animal about its pivotal support when said part is moved by its own weight.

1,353,708. SEAT OF MOTOR-CARS. JOHN HAROLD BARNETT, Tettenhall, England. Filed Sept. 27, 1919. Serial No. 326,092. 6 Claims. (Cl. 155—13.)



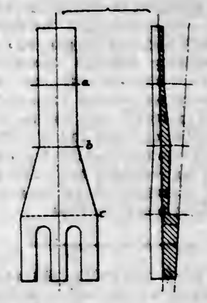
2. A seat mounted for tilting movement, a back pivotally connected to and carried by the rear side of the seat, and provided with supporting means extending below the pivotal axis of the back, and a lever pivotally connected at a fixed point below the seat and also pivotally connected to the back at a point below the pivotal axis of the back and causing the back to remain in substantially vertical position irrespective of whether the seat is in normal or in tilted position.

1,353,709. TOKEN. MARTHA VIOLA BAUER, Washington, D. C. Filed Sept. 19, 1919. Serial No. 324,859. 4 Claims. (Cl. 47—18.)



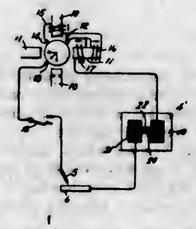
1. A token comprising an easel having a flower stem receiving opening therein, a prop foldably connected with the easel, and a collapsible water font supported upon the rear side of the easel between the same and the said prop and having its interior in communication with the opening, the font constituting means for preventing accidental folding of the prop when the font is distended by its contents.

1,353,710. BLADE OR VANE FOR STEAM-TURBINES. KARL BAUMANN, Urmston, England, assignor to The British Westinghouse Electric & Manufacturing Company, Limited, London, England. Filed May 8, 1916. Serial No. 95,145. 5 Claims. (Cl. 253—77.)



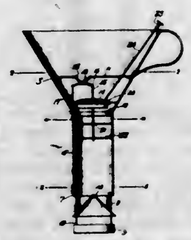
2. An end supported turbine blade having the edges of a section of the outer or free portion thereof parallel while a lower portion gradually increases in width toward the root.

1,353,711. ELECTRIC WELDING AND REACTOR. SVEN R. BERGMAN, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 25, 1920. Serial No. 391,721. 8 Claims. (Cl. 219—8.)



1. A system comprising a source of direct current, a load circuit supplied thereby adapted to provide wide and sudden changes in resistance, means for adjusting the current supplied from said source to said load circuit and a reactor in series in said load circuit, characterized by the fact that adjustments of said current are arranged to vary the inductance of said reactor.

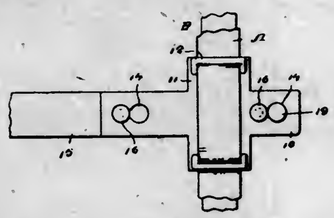
1,353,712. FUNNEL. HENRY NORBERT BERNIER, St. Eugene, De Guigues, Quebec, Canada, assignor of one-half to Jules De Froy, Timmins, Ontario, Canada. Filed Apr. 29, 1919. Serial No. 293,390. 1 Claim. (Cl. 226—37.)



A funnel comprising a body provided with a tubular extension, a valve seat at the point of intersection of the

extension with the funnel, a float slidably suspended below and on the lower end of said extension, a transverse supporting bar arranged in the body of the funnel and provided at one side of its intermediate portion with a depending V-shaped ear, a link pivotally mounted in the apex of the ear for rocking movement, a valve having a stem, a protector arranged in the funnel body at a point between the point of intersection of the tubular extension with the funnel body and said supporting bar, one end of said stem being slidably mounted through the protector and having pivotal connection with one extreme end of the link, an operating rod carried by said float operating to one side of the protector, and having pivotal connection at one end to the opposite end of said link, a manually operative rod connected with the valve, a spring embracing the rod for retaining the valve in an elevated position, said rod operating in an aperture of the bar and an aperture of the protector plate.

1,353,713. COUPLING DEVICE. WILLIAM O. BERRY, Caro, Mich., assignor of one-half to William F. Wallis, Caro, Mich. Filed Apr. 12, 1920. Serial No. 373,255. 2 Claims. (Cl. 213—67.)



1. A draft device comprising a plate disposed against the underside of the rear spring of a vehicle and rigidly clamped thereto, said plate being provided with keyhole slots, a draw-bar disposed against the underside of the plate and carrying headed studs engaging within said key-hole slots, and a spring pivoted at one end upon the underside of the draw-bar and having a lug engageable within the key-hole slots in advance of the studs therein.

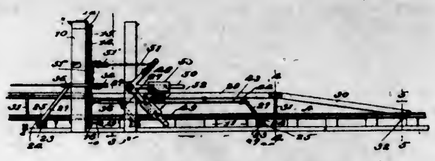
1,353,714. METHOD AND DEVICE FOR MANUFACTURING PIPE-BENDS, SERPENTINES, AND THE LIKE. RUDOLF HIERONYMUS BÖHLING, Hamburg, Germany, assignor to the Firm Rohrbogenwerk G. M. B. H., Hamburg, Germany. Filed July 16, 1917. Serial No. 180,926. 7 Claims. (Cl. 153—64.)



1. The method of manufacturing pipe bends, serpentines, and the like, which consists in drawing a pipe blank over a mandrel adapted to simultaneously bend and expaid the material eccentrically to its longitudinal axis.

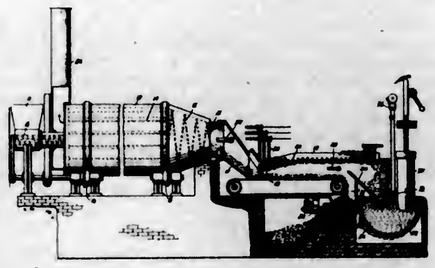
3. A draw mandrel for use in manufacturing pipe bends, serpentines and the like from a straight pipe or tube, consisting of a cylindrical body, having a projection eccentric to the axis of said cylindrical body at one end and adapted to urge the material of the pipe blank to one side and simultaneously bend the pipe, when the mandrel is drawn through the blank.

1,353,715. AUTOMATIC MINE-DOOR. CHARLES L. BOWMAN, Canton, Ohio, and JOHN J. BODY, Dante, Va., assignors, by direct and mesne assignments, to The American Mine Door Company, Canton, Ohio. Filed July 8, 1918. Serial No. 243,931. 14 Claims. (Cl. 246—307.)



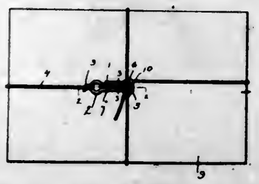
1. A device of the character described including a door, an operating bar, hinge elements swingingly supporting said bar, an operative connection between the bar and door including cushioning means for interrupting between the bar and door shock upon the bar, and means connected with the door for normally holding the door closed, the bar being movable by a car approaching the door for opening the door.

1,353,716. PRODUCTION OF IRON AND STEEL. CHARLES S. BRADLEY, New York, N. Y. Filed Oct. 5, 1916. Serial No. 123,873. 7 Claims. (Cl. 75—14.)



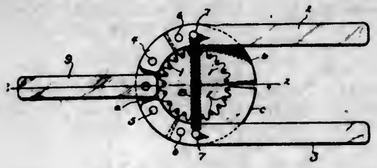
2. The method of obtaining values from ores, which are reducible below fusion temperature, which comprises reducing the values in finely divided ore, without fusion, by the incomplete combustion of hydrocarbon gas with a deficiency of air in the presence of the ore to be reduced, separating the reduced finely divided values from the gangue in the atmosphere of the incoming hydrocarbon gas prior to commingling of the latter with the deficiency of air for combustion, and consolidating the separated values.

1,353,717. PACKAGE-TIE. FREDERICK F. BUCHANAN and NEWMAN F. SLACK, Machiponga, Va. Filed Apr. 4, 1916. Serial No. 88,835. 1 Claim. (Cl. 24—18.)



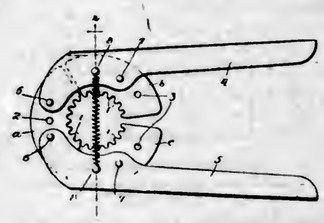
A package tie comprising a single wire bent to form an eye and a fixed jaw and spring jaw, the fixed jaw extending substantially to the eye and the spring inclined directly upward from the eye to yieldingly oppose the fixed jaw.

1,353,718. BOTTLE-CAPPING TOOL. WILLIAM W. BURESCH, Baltimore, Md. Filed July 11, 1919. Serial No. 310,171. 1 Claim. (Cl. 226—86.)



A device for attaching crimped caps to bottles comprising three arcuate crimping jaws adapted to encircle a cap, a pair of handles both pivotally connected to one jaw and each having one of the other jaws separately secured to it, and a spring for holding said jaws in closed position, said spring extending over the opening between the jaws.

1,353,719. BOTTLE-CAPPING TOOL. WILLIAM W. BURESCH, Baltimore, Md. Filed Apr. 16, 1920. Serial No. 374,398. 6 Claims. (Cl. 226—86.)

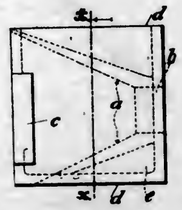


1. A device for attaching crimped caps to bottles comprising three arcuate crimping jaws adapted to encircle a cap, and a pair of handles both pivotally connected to one jaw and each having one of the other jaws pivoted to it.

1,353,720. PROCESS AND COMPOSITION FOR THE PROTECTION OF MONETARY AND OTHER DOCUMENTS. DAVID NUNES CARVALHO, New York, N. Y. Filed Nov. 26, 1919. Serial No. 340,884. 10 Claims. (Cl. 134—33.)

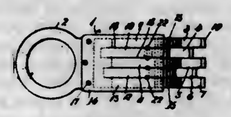
1. A composition of matter for the protection of monetary and other documents consisting of a waxy material and anilin.

1,353,721. CLOSING DIE OR BELL FOR WELDED TUBES. DOUGLAS WHIMSTER CHISHOLM, Garnkirk, Scotland. Filed Sept. 30, 1919. Serial No. 327,452. 4 Claims. (Cl. 205—28.)



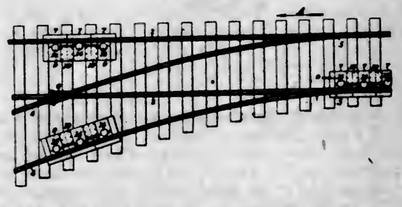
1. A closing die or bell for use in the manufacture of butt welded and lap welded tubes having, integral therewith, an open trough or casing for the reception of water for cooling purposes.

1,353,722. COMBINATION-KEY. FRANCISCO CLARK, Durango, Mexico. Filed June 17, 1919. Serial No. 304,888. 12 Claims. (Cl. 70—9.)



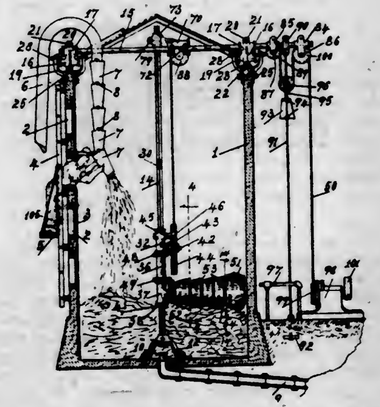
1. A combination key comprising a main body, a plurality of fingers of identical construction movable longitudinally of the key body and independently of each other and having the ends thereof beveled extending beyond the end of the key body, means for independently positioning each of said fingers, means including a bent lip portion for holding the said key in a key hole.

1,353,723. GUARD DEVICE FOR RAILWAYS. SIMON CLARY, Carnegie, Pa. Filed Jan. 17, 1920. Serial No. 352,061. 12 Claims. (Cl. 238—16.)



5. A guard device for rails, comprising a supporting member formed with upper and lower plates, said upper plate having a depression therein, a bearing in said member, and a wheel-engaging element in said bearing and rotatable in said depression, substantially as described.

1,353,724. ENSILAGE-PACKER. HARRY E. COBB, Springfield, Ill. Filed Aug. 18, 1919. Serial No. 318,427. 10 Claims. (Cl. 100—56.)



1. The compacter for ensilage packers, consisting of a rotative shaft; a master roller fixed on said shaft; an inner roller loose on said shaft; and interchangeable rollers loose on said shaft, between the master roller and the inner roller.

9. In an ensilage packer, the combination of frame members; sheaves supported by the frame members; a saddle adjustable on the frame members; means for

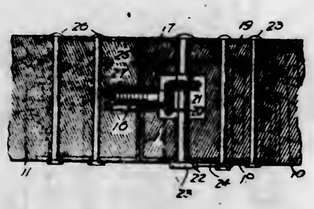
securing the saddle on the frame members; sheaves on the saddle parallel to each other; and in line with the sheaves on the frame members; a staff held by the saddle, a carriage slidable on the staff; a sheave carried by the carriage; compacters connected with the carriage and traveling around the staff; a belt running on the sheaves on the frame members and running downwardly over one sheave on the saddle, around the sheave on the carriage and upwardly over the other sheave on the saddle; and a counterweight co-acting with the belt, the sheaves on the frame-members, the sheaves on the saddle and the sheave on the carriage.

1,353,725. BUTTON DEVICE. SAMUEL COHEN and ARTHUR R. FORRESTER, New York, N. Y. Filed Aug. 27, 1919. Serial No. 320,114. 10 Claims. (Cl. 24—114.)



1. A device of the class described comprising a main button member having a head at one end and an enlarged and hollow base at the other end thereof, and a supplemental button member comprising two heads joined by a shank, one of the heads of the supplemental button member being mounted in the hollow base of the main button member and permanently retained therein in such manner as to permit of lateral, rotatable and inward and outward movements of said supplemental button member in the main button member.

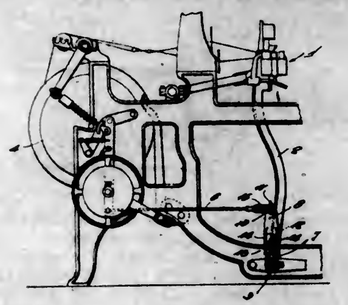
1,353,726. TIRE. CLYDE L. CUNNINGHAM, Perris, Calif. Filed Jan. 22, 1919. Serial No. 272,494. 3 Claims. (Cl. 152—23.)



2. A vehicle tire formed of separate sections, means for securing the sections together, said means including a threaded bolt embedded in the end of one section and engageable with a threaded socket embedded in the end of the adjacent section, gearing located within the tire for rotating the bolt, a pivoted dog engageable with the gearing operating means for holding the bolt against movement.

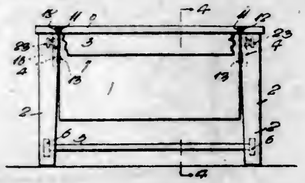
1,353,727. LET-OFF-ROD OPERATOR. WILLIAM CURRAN, Lewiston, Me., assignor of one-third to Patrick F. Tremblay, Lewiston, Me., and one-third to Henry W. Oakes, Auburn, Me. Filed Oct. 30, 1919. Serial No. 334,416. 6 Claims. (Cl. 139—59.)

1. In combination with the lay sword of a loom, the rock shaft carrying said sword, and the operating rod for the yarn let-off mechanism; a vertical arm rising from said rock shaft, and connected with said operating rod, and a lateral arm extending from said vertical arm



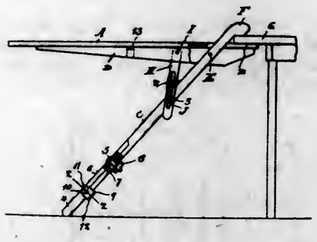
to said sword and rigid with respect to both to hold them against relative movement.

1,353,728. TABLE. CARL DENCE, Brooklyn, N. Y., assignor of one-fourth to Michael J. Joyce, Brooklyn, N. Y. Filed Oct. 2, 1919. Serial No. 327,933. 3 Claims. (Cl. 45—31.)



1. A table comprising a leg structure, and a top, said top including a rotatable central section and retractable side rails abutting said rotatable central section, said central section having a plurality of flat faces, any one of which may be brought into a position to form, in conjunction with the side rails, a continuous top, one of said side rails being hinged to the leg structure, and the other side rail being slidable, whereby said central section may be rotated when desired and held against rotation when desired.

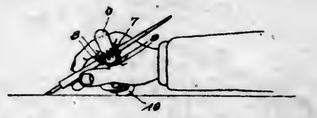
1,353,729. FOLDING IRONING-BOARD. JOHN ADAM DICE, Espanola, Ontario, Canada, assignor of one-half to Douglas Harvey Parker, Espanola, Ontario, Canada. Filed Apr. 28, 1919. Serial No. 293,227. 1 Claim. (Cl. 68—10.)



In combination with an ironing board having a supporting leg pivoted thereto and one end extended through and beyond said board, said extended portion of the leg co-operating with the board to form a clamping means, the opposite end of said leg having its upper side cut away, a U-shaped plate secured by its web portion to the terminal of said cut-away end of the leg, the arms of said plate embracing and secured to the opposite sides of said leg,

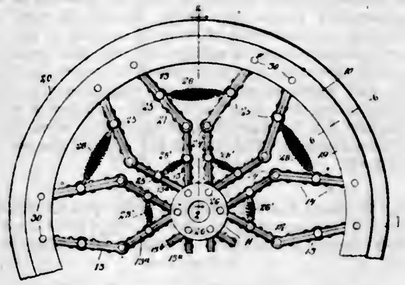
an adjustable extension slidably mounted on the cut-away portion of said leg and located between the arms of said plate, said arms forming guides to prevent lateral movement for said extension and relative to said legs, and means for holding said extension in different adjusted positions relative to the leg.

1,353,730. WRITER'S AIDING DEVICE. ADELBERT A. DISBROW, Stevenson, Wash. Filed Sept. 8, 1919. Serial No. 322,337. 3 Claims. (Cl. 120—107.)



2. A writer's aiding device comprising a bar adapted to be held in a person's hand and to support the hand above the surface to be written on, and a clamping device formed of a length of wire and comprising a seris of helical loops, portions of said wire constituting curved jaws which embrace and clamp said bar, the relation of the said clamping jaws and bar being such that the axes of the rspective loops are arranged in an arc, said loops being of a size to receive a writing instrument therethrough and coöperate in frictionally holding the writing instrument.

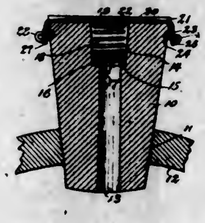
1,353,731. RESILIENT WHEEL. MOSES B. DISKIN, New York, N. Y. Filed Jan. 23, 1919, Serial No. 272,667. Renewed Mar. 30, 1920. Serial No. 370,047. 2 Claims. (Cl. 152—28.)



1. In a resilient wheel, the combination of a hub, a rim normally concentric therewith, a plurality of spokes extending between the hub and the rim and pivotally connected thereto, each spoke comprising two rigid links pivoted together and the spokes being arranged in pairs, the outer links of each pair of spokes being convergent toward the hub while the inner links of the same pair are substantially parallel to each other, a coil spring connected to the outer links of each pair of spokes and tending to increase the convergence thereof, and a coil spring extending from each inner link to the next adjacent inner link of the next pair of inner links, the springs aforesaid being arranged in staggered relation throughout the entire series of spokes.

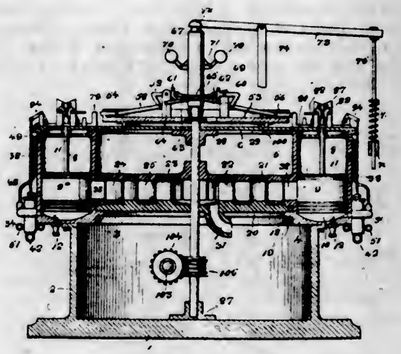
1,353,732. SAFETY-BUNG. GEORGE DOBMEIER, Buffalo, N. Y. Filed Sept. 26, 1919. Serial No. 326,550. 5 Claims. (Cl. 217—101.)

1. A safety bung comprising a body adapted to be placed in a bung hole and provided with a longitudinal passage the inner part of which is narrow and the outer part wider forming an outwardly facing valve seat between the narrow and wide parts of said passage, a longitudinally movable valve arranged in the outer wide part of said passage and engaging said seat, a spring arranged on the wide part of said passage and engaging its inner end with said valve, a follower engaging with the outer end of said spring, a retaining member arranged transversely



on the outer end of said body and engaging said follower, and a band secured around the outer end of the periphery of said body and connected on diametrically opposite sides with opposite ends of said retaining member.

1,353,733. GAS TURBINE-ENGINE. WILLIAM J. DODGE, San Diego, Calif. Filed June 13, 1919. Serial No. 303,909. 6 Claims. (Cl. 60—13.)

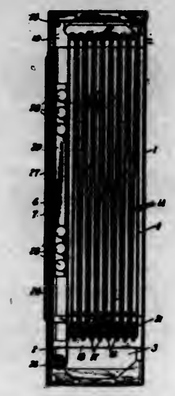


1. In a rotary internal combustion engine, the combination of a stator, a rotor coöperating therewith, turbine vanes on said rotor and stator, an annular series of stationary combustion chambers surrounding said turbine and having obliquely disposed outlets by means of which the expanding mixture is directed against said vanes, a normally locked piston in each of said cylinders, and means for unlocking the pistons as the speed of the turbine decreases.

1,353,734. EXHIBITING OR SIGN-DISPLAY APPARATUS. DARLEY B. DOYEL, Pickerington, Ohio. Filed Apr. 3, 1916. Serial No. 88,551. 1 Claim. (Cl. 40—32.)

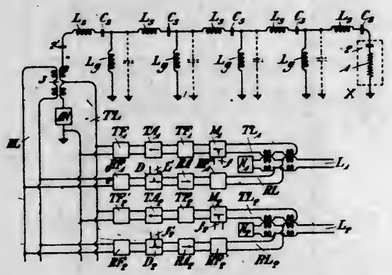
A display apparatus comprising a substantially rectangular casing, an upper series of guiding and driving rolls arranged in a common horizontal plane and geared together, a lower series of guiding and tensioning rolls, all arranged normally in a common horizontal plane, spaced parallel plates arranged within the casing adjacent the bottom thereof, each plate having a plurality of parallel slots, blocks slidably fitted in the respective slots, the rollers of the lower series being journaled in said slots, springs arranged in said slots and bearing against the blocks for tensioning the lower series of said rollers, elevating guiding rollers arranged in a higher plane than the rollers of the upper series, an endless belt passing alternately over the upper rollers and under the

lower rollers and also passing over said elevated rollers to clear the upper set of guiding rollers, the rollers of the



lower series being independently yieldable and means for positively driving all of said upper guiding rollers at the same speed.

1,353,735. ANTENNA STRUCTURE. LLOYD ESPENSCHIED, Hollis, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,524. 4 Claims. (Cl. 250—33.)



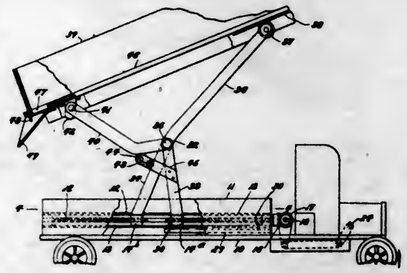
1. An antenna structure for multiplex transmission comprising a plurality of sections, each section including a series impedance element and a shut impedance element connected to ground, and a terminating impedance associated with the end section of the seris, the impedance elements of each section being so proportioned and related to each other that the combination will freely transmit with substantially equal attenuation a broad band of frequencies, while substantially suppressing frequencies lying outside the band, and said terminating impedance being so proportioned as to substantially prevent reflection losses due to the fact that the number of sections is not infinite.

1,353,736. AUTOMATIC FIREARM. MOUBRAY GORE FARQUHAR and ARTHUR HENRY HILL, Birmingham, England. Filed Nov. 5, 1917. Serial No. 200,327. 5 Claims. (Cl. 42—3.)



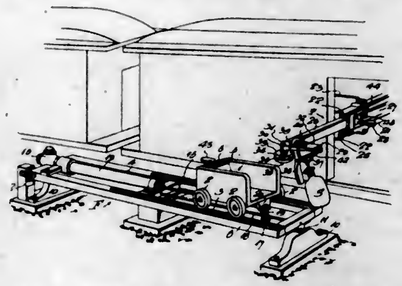
1. In an automatic fire arm, the combination of a body, lock mechanism mounted in a portion of the body, gas operated automatic mechanism having springs arranged in tubes under the barrel of the fire arm and coöperating with parts of the lock mechanism, and a tubular metallic sheath enveloping the greater portion of the barrel of the fire arm and spring containing tubes and parts adjacent thereto.

1,353,737. RAISING AND LOWERING DEVICE. JOSEPH GASSER and ALFRED H. BARBER, Trenton, N. J. Filed Feb. 21, 1920. Serial No. 360,530. 6 Claims. (Cl. 298—11.)



1. In a lowering and raising device the combination with a main frame of blocks mounted to slide in said main frame, screw rods longitudinally mounted in said main frame and having said blocks threaded thereon, a vehicle body, an interposed toggle frame connecting with said blocks and supporting said vehicle body and elevating or lowering the latter when the screw rods are actuated and in turn actuate said blocks, a supplementary frame on the main frame, a power reverse mechanism mounted on said supplementary frame and having connection with said screw rods, an operating rod mounted to slide on the main frame adjacent to one of said screw rods, pins projecting from said operating rod to be engaged by certain of said blocks and means mounted on said supplementary frame and connecting said operating rod with said power reverse mechanism for the operation of the latter when one of said blocks engages with one of the pins on the said operating rod.

1,353,738. RAILWAY-MAIL-DELIVERING APPARATUS. OTTO M. GILBERTSON, La Crosse, Wis. Filed June 12, 1919. Serial No. 303,536. 5 Claims. (Cl. 258—10.)



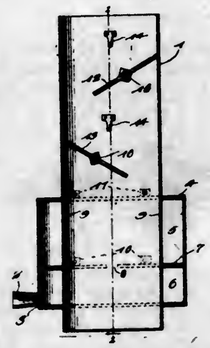
1. In a railway mail delivery apparatus, a mail bag receiver open at its top and at one end, said receiver being disposed at one side of a railway, an arm extending laterally from a railway car and having a rearwardly directed portion at its outer end parallel with the railway and adapted for loose reception in a mail bag supporting ring, and a latch for holding the ring on said arm, said latch having a rearwardly movable releasing arm in front of its ring engaging portion to strike said receiver and release the latch, thereby permitting said rearwardly directed end of said arm to withdraw forwardly from the bag supporting ring.

1,353,739. COLLAR-FASTENER. THOMAS J. GILLESPIE, Homestead, Pa., assignor of one-half to Harry J. Trimble, Pittsburgh, Pa. Filed Mar. 1, 1920. Serial No. 362,228. 2 Claims. (Cl. 24—101.)



1. A collar fastener comprising a body portion having projecting from its lower edge a pair of arms each having its free end bent inwardly toward the body portion, said arms arranged inwardly with respect to the ends of the body portion, and a collar retaining element projecting from the lower edge of and offset with respect to the body portion, said element arranged between and spaced from said arms and having the lower portion thereof extending toward the body portion.

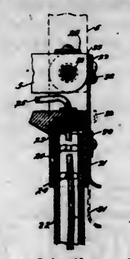
1,353,740. FUEL-SAVER. WILLIAM G. GILLESPIE, Chicago, Ill. Filed Jan. 20, 1919. Serial No. 272,127. 4 Claims. (Cl. 110—58.)



3. In a device of the character described, a smoke-pipe having ports in its walls, a drum surrounding said smoke-pipe and comprising a lower compartment and an upper compartment and being provided with air passages through which these compartments communicate with one another, the lower compartment being provided with an air-inlet which communicates with the outer air, said upper compartment communicating with the interior of said smoke-pipe through said ports, and baffle-plates spaced one above the other in said smoke-pipe and at a higher level than said ports, said baffle-plates being located respectively nearer to one side of the smoke-pipe than to the other side, the upper one of these baffle-plates having its inner edge extending over the inner edge of the lower one of these baffle-plates, thereby providing a circuitous passage past these baffle-plates.

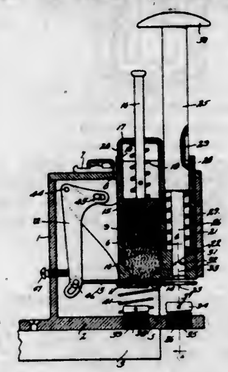
1,353,741. WINDOW-CLEANER. MORRIS GOLDSTONE, Brooklyn, N. Y. Filed Feb. 7, 1920. Serial No. 356,923. 3 Claims. (Cl. 15—59.)

1. The combination with a cleaning machine, of a socket member pivoted thereon, means on the socket member and means on the machine adapted to co-act therewith for locking the socket member in axial alinement or at right angles to the axis of the machine, a handle having



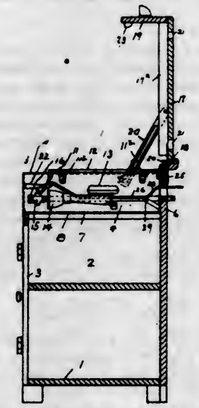
one extremity arranged in the socket member for rotation, and means for tensioning the rotation of said handle in said socket member.

1,353,742. MARKING DEVICE. CHARLES MARSHALL GRAVATT, Port Royal, Va. Filed Mar. 29, 1920. Serial No. 369,730. 13 Claims. (Cl. 101—318.)



1. A device of the character stated, comprising a casing, a movable elevator in the casing having a reservoir therein, a plunger in the elevator, and means operated by the movement of the elevator to transfer material from the reservoir into position below the plunger.

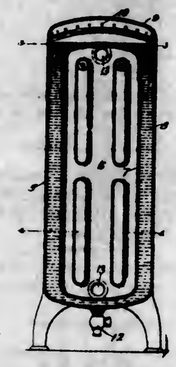
1,353,743. STOVE. GEORGE W. GRAVES, Cincinnati, Ohio, assignor to The Graves Supply Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 17, 1917. Serial No. 142,819. 2 Claims. (Cl. 126—37.)



2. In combination with a gas stove comprising a burner, a frame and a valve, of a cabinet in which the stove is

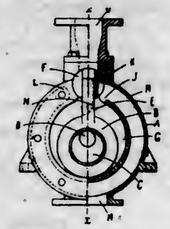
housed comprising a hinged cover adapted to expose the top of the stove when opened and to inclose the stove when closed; a supply pipe arranged within the cabinet when closed; valves on the supply pipe; and means preventing the closing of the cover with the valves in open position.

1,353,744. HUMIDIFYING-RADIATOR UNIT. FRED E. GROSVOLD, Eau Claire, Wis. Filed May 31, 1918. Serial No. 237,419. 3 Claims. (Cl. 237—78.)



1. A radiator unit comprising a heating chamber and a water chamber bordering the heating chamber at the top, bottom and side edges of the unit, the water chamber being perforated at the top of the unit and said unit being provided with connecting pipples.

1,353,745. ROTARY PUMP FOR PUMPING LIQUIDS. GEORGE HANDLEY, Palmers Green, England, assignor to Percy William Bullock, London, England. Filed Oct. 24, 1919. Serial No. 333,022. 6 Claims. (Cl. 103—44.)



1. A pump of the pendulum rotary type, comprising a pump body having a pump chamber formed therein, a rotor mounted in said chamber, a stem on said rotor, an oscillatory bearing through which the said stem slides, an annular chamber surrounding almost completely the pump chamber and communicating at one side with the pump chamber at a point adjacent to the oscillatory bearing, the other side of the annular chamber terminating in a blind end near the oscillatory bearing, and an inlet for liquid at an intermediate point of the annular chamber whereby the momentum of the incoming liquid may be fully utilized in insuring that the liquid shall follow the rotor and enable the maximum effective speed of running to be obtained.

1,353,746. YOKE CONSTRUCTION FOR LEAF-SPRINGS. EDWARD M. HARBERSON, Los Angeles, Calif. Filed May 22, 1919. Serial No. 298,958. 2 Claims. (Cl. 267—53.)

1. A yoke construction for leaf springs comprising the combination with an upper spring leaf and a lower spring leaf, of a clip bolt inserted downwardly through the end of the lower spring leaf and having a flat head countersunk into the upper face of the lower spring leaf, a clip having a flat portion fitting against the lower face of the lower spring leaf and having a central opening through



which the clip bolt extends, side portions integral with the flat bottom portion extending upwardly past the upper spring leaf, a nut upon the clip bolt, and a supporting bolt through the ends of the clip above the upper spring leaf.

1,353,747. PASTE-DISPENSING DEVICE. SUMPTER L. HARWOOD, Uniontown, Ala., assignor of one-half to Thomas R. Long, Uniontown, Ala. Filed Dec. 6, 1919. Serial No. 342,941. 5 Claims. (Cl. 221—60.)



1. A paste dispensing device, comprising a longitudinally slotted casing, a roller on the frame for compressing the paste tube in the casing, a web on the frame projecting through the slot, and a finger engaging device on the outer end of the web.

1,353,748. ELECTRICAL CONNECTION. ELLSWORTH A. HAWTHORNE, Bridgeport, Conn. Filed Feb. 14, 1918. Serial No. 217,043. 3 Claims. (Cl. 173—328.)



1. In a device of the class described, the combination of a socket member, an insulating member extending into said socket member and provided with a lengthwise bore and a transverse channel, a terminal mounted in said bore, a conductor extending into said channel and connected to said terminal, an insulating member overlying said channel, and means to secure said insulating members together thereby to hold said terminal in said bore and said conductor in said channel.

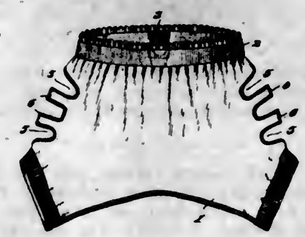
1,353,749. HAND OR ARMPIT SUPPORT FOR WATER-CLOSETS. WILLIAM JOHN HEGARTY, Lawsonville, Cork, Ireland. Filed Dec. 27, 1918. Serial No. 268,572. 2 Claims. (Cl. 4—18.)



1. In combination with a water closet basin having a hinged cover, a crutch, hand or armpit support having

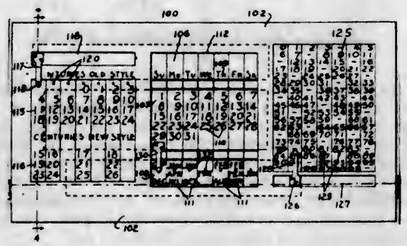
means to suspend the same directly from the basin, said suspending means comprising a hanger having clips to engage the top of the wall of the basin, below the cover.

1,353,750. GARMENT-PROTECTOR. KURT HEITLER, New York, N. Y. Filed Oct. 3, 1919. Serial No. 328,153. 2 Claims. (Cl. 128—287.)



2. A garment, comprising a body including trunk and limb encircling portions, said garment being formed with a number of cut-out portions adjacent its side edges, whereby to provide openings, through the body of said garment, entirely inclosed by an integral portion of said body.

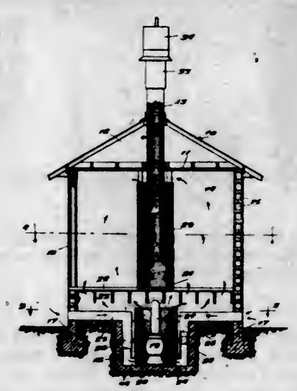
1,353,751. PERPETUAL CALENDAR. JAMES L. HUTSON, Shelbyville, Tenn. Filed Jan. 15, 1919. Serial No. 271,238. 2 Claims. (Cl. 40—107.)



2. A perpetual calendar, comprising a fixed member having an opening and provided with groups of indicating characters representing "old and new centuries" and "years in a century," movable members held movably on the said fixed member independent one of the other, one of the movable members having groups of indicating characters representing the "days of the week" and having an indicator indicating on the said "old and new style centuries," another of the movable members having groups of indicating characters representing the "names of the month" and having an indicator indicating on the "years of a century" and another of the said movable members having groups of indicating characters representing the "days of the month" and having an indicator indicating on the said "names of the month," each group of indicating characters of the movable members being adapated to appear in the said opening.

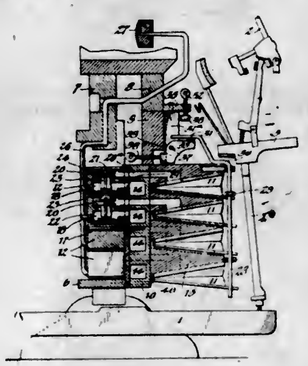
1,353,752. CURING-HOUSE FOR SWEET-POTATOES. ELIJAH JASPER ILES and ODIE LEE HASTINGS, Alexandria, La. Filed June 9, 1920. Serial No. 387,559. 6 Claims. (Cl. 98—26.)

4. A curing house having insulating walls, a heating pit, a reticulate charging floor having a central solid section above the heating pit, a cylinder rising from and having its lower end closed by the said central section, the upper end of the cylinder being open, a roof, and an outlet flue extending downwardly through the roof with its lower portion projecting downwardly into the said cylinder in spaced relation, a tube telescoping the upper outer end of said flue to form an adjustable draft extension, and means for adjusting said tube and holding the same



in adjusted position, including flexible connections and a controlling counterweight for said connections as described.

1,353,753. PNEUMATIC ACTION FOR MUSICAL INSTRUMENTS. CHARLES V. JAMESON, Chicago, Ill. Filed Oct. 10, 1917. Serial No. 195,666. 7 Claims. (Cl. 84—69.)

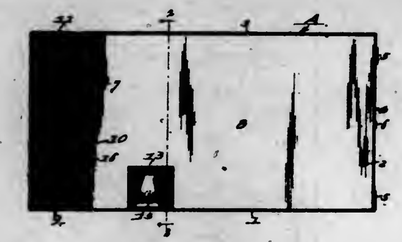


1. The combination of a pneumatic, a sticker actuated thereby and having a laterally-extending member provided with a free end portion, and stop-devices arranged above and below said free end portion for limiting the stroke of the sticker.

1,353,754. SLEEPING-CABINET. ROBERT K. JAYNE, Jackson, Miss. Filed Mar. 22, 1918. Serial No. 224,027. 1 Claim. (Cl. 5—14.)

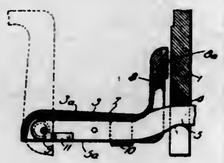
A sleeping cabinet of the character described including a casing divided into a body receiving compartment and a communicating head receiving compartment, said head receiving compartment being provided with a screen covering to permit free ventilation therein, a lamp casing arranged within said body receiving compartment, the head receiving compartment extending the entire height and width of the casing, said lamp casing being adapted to receive therein a heating lamp for heating said body receiving compartment, a door arranged at the side of said

body receiving compartment for establishing access to said lamp casing, a screen covering for a side of said



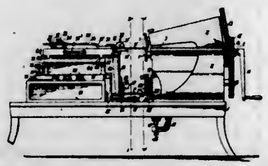
lamp casing and flexible material for partially severing communication between said body receiving compartment and head receiving compartment.

1,353,755. PIANO-PEDAL AND LIKE DEVICE. BENJAMIN H. JEFFERSON and WALTER I. KIRK, Chicago, Ill., assignors to Lyon & Healy, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1919. Serial No. 280,119. 19 Claims. (Cl. 74—81.)



1. The combination of a pedal bar and a pedal attached thereto and provided with a plurality of pressing surfaces.

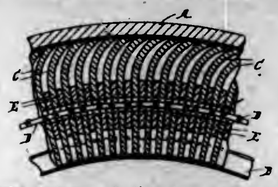
1,353,756. PATTERN-CONTROLLED MECHANISM. CHARLES JOHANSON, Dover, N. J. Filed Feb. 10, 1920. Serial No. 357,730. 17 Claims. (Cl. 164—63.)



1. The combination of a work-holding member and a tool member, one of said members adapted to have universal movement in one plane, means for securing a pattern to one of said members, and a combined pattern guide and feeding means fixed with respect to the other member for guiding the relative movement of pattern and tool and effecting the relative feed of work and tool.

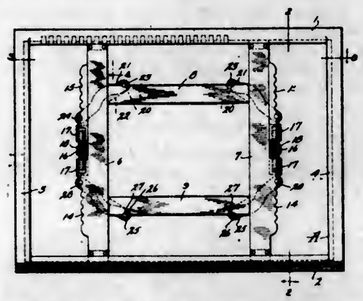
1,353,757. RESILIENT TIRE. ALFRED CHRISTIAN JONASSEN and NOAH JONASSEN, Whakatane, New Zealand. Filed Jan. 30, 1919. Serial No. 274,078. 4 Claims. (Cl. 152—5.)

1. A resilient tire for wheels comprising, a flexible cover adapted to be clenched to a wheel rim; a plurality of stiff resilient leaves radially disposed within said cover, the size and shape of said leaves being such that said cover when clenched to the rim causes the leaves to overlap each other and be under compression; a plurality of



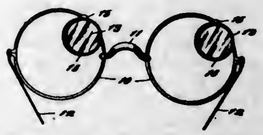
spacing disks interposed between said leaves; and an endless metallic band concentric with said cover and adapted to pass through apertures in the leaves and disks.

1,353,758. ADJUSTABLE CHASE AND LOCKUP FOR PRINTING, CUTTING, AND CREASING PRESSES. ERNEST KARL, Litchfield, Conn. Filed Mar. 9, 1920. Serial No. 364,505. 6 Claims. (Cl. 101—393.)



1. A device of the character described, comprising an outer chase, vertical bars adjustably supported in the outer chase, horizontal bars between the vertical bars, fixed notched extensions on the outer faces of the vertical bars adjacent one end of the latter, notched blocks on the outer faces of said vertical bars adjacent their other ends, turnbuckles connecting said blocks and extensions, and stays connecting the notched extensions with the lower bar and the notched blocks with the upper bar.

1,353,759. EYE-SHIELD FOR AUTOMOBILE-DRIVERS. JOSEPH F. KEITZ, Jersey City, N. J. Filed Aug. 29, 1919. Serial No. 320,635. 2 Claims. (Cl. 2—149.)

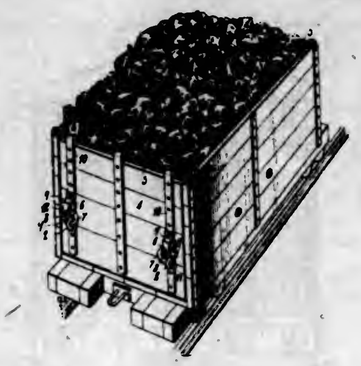


2. An eye shield for automobile drivers, including a frame having means to sustain it in position on the wearer and permit unobstructed straight-ahead vision, right and left eye shields in planes oblique to the general plane of the frame, means supporting said shields forwardly of the frame and laterally of the normal lines of straight-ahead vision for permitting of the wearer bringing said shields into oblique lines of vision.

1,353,760. LATCH FOR DOORS OF MINE-CARS. CHARLES E. KELLEY and GUSTAVE D. SPEICHER, Larksville borough, Pa. Filed Dec. 17, 1919. Serial No. 345,607. 2 Claims. (Cl. 292—202.)

1. A latch for a door comprising a chain affixed at one end, said door having a perforation therein to form with

one end of the chain a hasp and staple, a latch on the outside of the door for engaging said staple link, said latch being of U-shape and having one of its arms pivoted



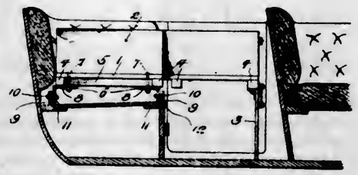
above the perforation and provided with an anvil surface and said latch being provided with a conical point for engagement with the staple link.

1,353,761. SPOOL. BERNHARD NATHANIEL KNOCHE, Valley Stream, N. Y. Filed Nov. 18, 1919. Serial No. 338,793. 2 Claims. (Cl. 242—118.)



1. As an article of manufacture, a spool for sewing cotton and the like made of a single piece of light material, comprising a barrel having a thin wall and provided with integral thread-retaining end flanges and an interior reinforcing partition integral with the barrel and having a central bore adapted to engage a sewing machine spindle.

1,353,762. HAULING ATTACHMENT FOR AUTOMOBILES. EDWARD KRUMLAND, Columbus, Nebr. Filed Mar. 27, 1919. Serial No. 285,539. 1 Claim. (Cl. 224—29.)



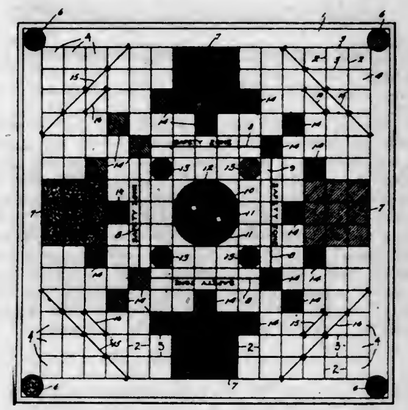
In a hauling attachment for automobiles, a platform for disposition in the tonneau of the machine, means for supporting the front end of said platform, L-shaped brackets having one arm secured to said platform for adjustment longitudinally of the same, the other arms of said brackets depending from the platform, and a pair of transverse rails secured to said depending arms for vertical adjustment, whereby they may rest upon different rear seat frames to support the rear end of said platform.

1,353,763. VIOLIN ATTACHMENT. EMILE LACOSTE, New Orleans, La. Filed Sept. 4, 1915. Serial No. 49,000. 3 Claims. (Cl. 84—44.)



1. The combination with a stringed musical instrument body, said body having an opening in its rear end wall and also having interior supporting means in its forward end portion; of an attachment comprising a rod extending through said opening in the rear end wall of the body and having its forward end portion disposed in said supporting means of the body, tuning pins on the rear portions of the rod, strings connected at their rear ends to said pins and having their forward ends connected with the rod and also having their intermediate portions stretched between spaced supports on the rod, and means on the rear portion of the rod to close the opening in the rear end wall of the body.

1,353,764. GAME-BOARD. EMMA N. LAMBERT, Bethlehem, Pa., assignor of one-half to Priscilla C. Allana, Bethlehem, Pa. Filed Jan. 8, 1920. Serial No. 350,100. 4 Claims. (Cl. 46—63.)

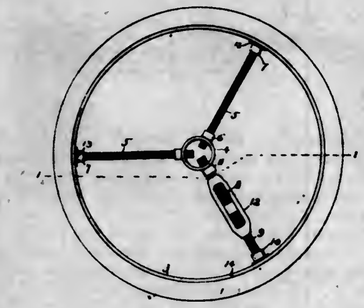


3. A game board divided by lines at right angles to each other forming spaces, diagonal lines at the corners of the board intersecting certain of the angles of said crossed lines, numerals on said diagonal lines, the numerals '1' and '2' being on one of said lines at each corner and the numerals '3', '4', '5', '6' and '7' on the other of said lines in each corner, said numerals adapted to receive thereon suitable game pieces, and other game pieces adapted to be used to knock down the first-mentioned game pieces.

1,353,765. TIRE-RIM-EXPANDING JACK. NICOLAUS LEWSEN, Portland, Me. Filed Sept. 10, 1917, Serial No. 190,168. Renewed Mar. 19, 1920. Serial No. 367,126. 2 Claims. (Cl. 157—1.)

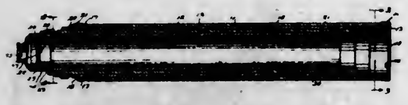
2. A tire rim expanding jack, comprising a central annular hub member having three lateral openings, radial arms consisting of threaded bolts having their inner ends detachably fitted in and loosely engaging the lateral openings of the hub, inner nuts arranged on the said arms and bearing against the outside of the hub to secure the arms in radial adjustment, outer nuts arranged on

the outer ends of the said arms, and bearing members threaded on the outer ends of the arms and engaged by



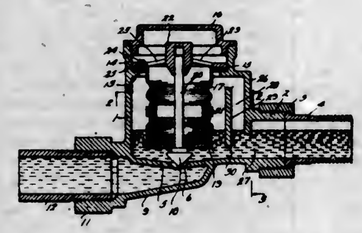
the outer nuts and adapted to fit against a rim, one of said arms being in two parts and provided with a connecting turn buckle.

1,353,766. TELESCOPE. MICHAEL LICHTMAN, New York, N. Y. Filed Dec. 26, 1919. Serial No. 347,495. 1 Claim. (Cl. 88—32.)



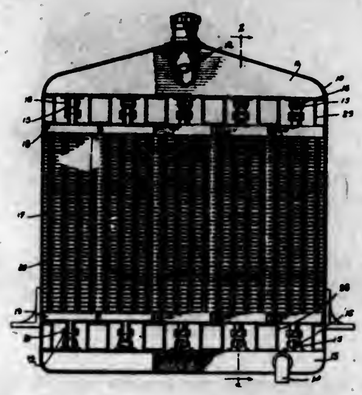
A telescope consisting of a plurality of concentric barrels in slidable relation to each other, an annular ring secured to one end of each barrel, an annular groove formed in each ring adapted to grip said barrels and secure said rings to said barrels, a flexible finger fixed to each of said rings, a ball on the end of each of said fingers adapted to engage one of said annular grooves when the telescope is in a collapsed position, one or more annular rings formed on each of said barrels, an annular groove formed on each of the last mentioned rings adapted to engage the balls 20 and secure said telescope barrels in a plurality of intermediate positions.

1,353,767. WATER-SEAL VACUUM-VALVE. JOHN H. LINDSAY, Brooklyn, N. Y. Filed Feb. 11, 1920. Serial No. 357,849. 6 Claims. (Cl. 236—56.)



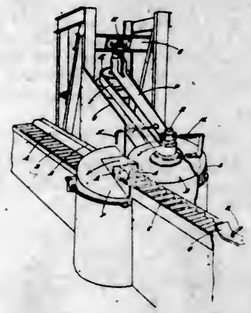
1. A valve of the character described, comprising a casing having an outlet in its bottom, and an inlet in its side at its lower end, a valve controlling the outlet, a thermostat controlling the movement of the valve, a partition wall in said casing projecting partially across the inlet, and a steam passage connecting the inlet with the upper end of the casing and having a wall extending partially across the inlet.

1,353,768. RADIATOR. LUKE LOUGHLIN, Jersey City, N. J. Filed May 3, 1919, Serial No. 294,519. Renewed Aug. 12, 1920. Serial No. 403,083. 1 Claim. (Cl. 257—129.)



A radiator comprising two headers arranged in spaced relation, tubular extensions arranged in spaced relation on each of said headers, the tubular extensions on one header being opposed to the tubular extensions on the other header, a controlling valve mounted in each of said tubular extensions, and a radiating element carried by each pair of opposed extensions and removably secured thereto.

1,353,769. MANUFACTURE OF SOLID RUBBER TIRES. COLIN MACBETH and WILLIAM EDWARD HARDEMAN, Birmingham, England, assignors to The Dunlop Rubber Company, Limited, Westminster, England. Filed June 9, 1919. Serial No. 302,920. 11 Claims. (Cl. 164—68.)

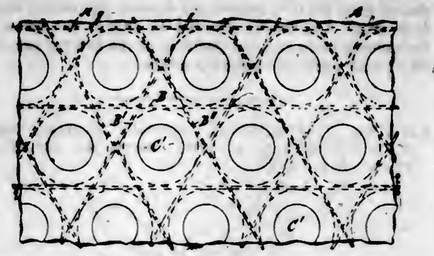


1. In an apparatus for beveling the ends of solid rubber tire strips, the combination of a rotating cutter, a support for a solid rubber tire strip adapted to position such strip in a plane inclined to the plane of the cutter and with the length of the strip extending transversely of the cutting edge, and means for effecting relative bodily movement between the support and cutter, whereby the strip will be severed and formed with a bevel end.

1,353,770. REINFORCED CONCRETE CONSTRUCTION. ROWLAND MCWILLIAMS, Glen Ridge, N. J. Filed Feb. 9, 1916. Serial No. 77,145. 7 Claims. (Cl. 72—66.)

4. A floor or other structural element, comprising a body of concrete and reinforcing tension members embedded in said concrete body and arranged in three sets,

all members of the same set being parallel to one another, but at an angle to the members of the other two sets, the



members of each set intersecting those of the other two sets at different points so as to form spaces some of which are triangular and some hexagonal.

1,353,771. RAILWAY-TRACK CONSTRUCTION. JOHN MALIK, Pittsburgh, Pa. Filed Jan. 19, 1920. Serial No. 352,244. 2 Claims. (Cl. 238—141.)



2. The combination with a railroad tie having a transverse seat formed therein by an undercut groove, of a rail resting in said seat and having dove-tailed engagement with the latter, said rail comprising a pair of longitudinal separable sections, one of said sections being provided with a rail head and being adapted to be renewed, the base of said rail being provided with a longitudinal inverted V-shaped groove, and a central upstanding rib formed on the tie centrally of the seat thereof for snug reception within the groove of the rail.

1,353,772. SNAP FOR BRACELETS. WILLIAM MAGUIRE and ALBERT BAUSCH, Brooklyn, N. Y. Filed Mar. 29, 1920. Serial No. 369,500. 2 Claims. (Cl. 24—230.)

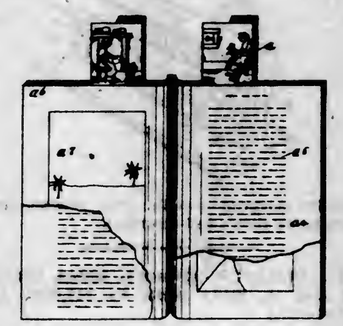


1. A catch for flexible bracelets comprising a plate adapted to be connected with one end of the bracelet and projecting therefrom, said plate having a pair of facing integral hooks, each hook being formed with an overhanging shoulder, a coiled member having ends formed as hooks with overhanging shoulder, the coil proportioned to act as a spring, said coiled member being arranged wholly within part of the opposite end of said bracelet to said plate and positioned to snap into interlocked relationship with said first mentioned hooks when the part of said plate including the hooks are inserted in the end of the bracelet carrying the coiled member, and manually actuated means for disengaging the hooks of the coiled member from the first mentioned hooks.

1,353,773. PROCESS OF TREATING COPPER-BEARING ALLOYS. WILLIAM JUDSON MARSH, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, New York, N. Y., a Corporation of New York. Filed Dec. 8, 1919. Serial No. 343,214. 3 Claims. (Cl. 75—18.)

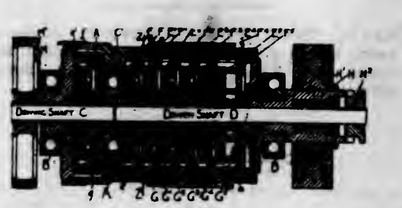
1. Process of treating copper bearing alloys, comprising reacting thereon with an aqueous solution containing cupric chlorid while maintaining the cupric chlorid content of the solution.

1,353,774. BOOK. ARNOLD TELFORD MASON, Hampstead, London, England. Filed Dec. 9, 1919. Serial No. 343,524. 3 Claims. (Cl. 281—38.)



1. A book having a series of its leaves provided with overlapping portions projecting beyond a margin of the leaves and bearing illustrations adapted to produce a kinematograph effect when the projecting portions are successively caused to slip quickly by the thumb and fingers.

1,353,775. VARIABLE-SPEED TRANSMISSION-GEAR. FRED MOLYNEUX, Cadishead, England. Filed Aug. 6, 1917. Serial No. 184,718. 2 Claims. (Cl. 74—34.)

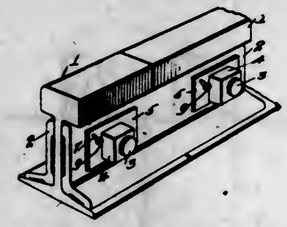


1. A variable transmission gear comprising in its construction a freely rotating internally toothed drum, a plurality of carriers mounted within said drum, a plurality of epicyclic trains of wheels mounted on the carriers within the internally toothed drum with the teeth of which each set of planet pinions mesh, a driving member or a driving sleeve to which the carrier of the first set of planet wheels is affixed and by which it is driven and a driven shaft co-axial therewith affixed to the final carrier and driven thereby, a controller affixed to the final sun wheel of the train and rotating around the driven shaft in the reverse direction to the drum, and a brake retarding mechanism applied to the controller, whereby when the rotation of the controller is retarded, a through drive is obtained, and as the controller is permitted to rotate, the speed of the driven shaft is reduced substantially as described.

1,353,776. AUTOMATIC-LOCKING SPRING-WASHER. ASBERY T. MILLS, Richland, Iowa. Filed Feb. 17, 1920. Serial No. 359,384. 2 Claims. (Cl. 151—61.)

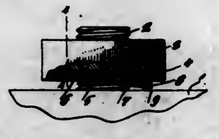
2. A washer device of the class described, comprising an outwardly-bowed resilient body having a central bolt-receiving aperture, said body provided with an elongated aperture contiguous to said bolt-receiving aperture, a rivet slidably mounted in said elongated aperture and

provided with heads at its ends, the head at the inner end of the rivet seated in a portion of the elongated aperture,



and a roller mounted upon the rivet between its heads, substantially as shown and described.

1,353,777. NUT-LOCK. GEORGE L. MOORE, Dexter, Iowa. Filed Aug. 15, 1919. Serial No. 317,800. 1 Claim. (Cl. 151—37.)



A nut having a groove formed in one face thereof, and a flexible key having a thickness equal to the depth of said groove and having one end resting solidly upon the bottom of said groove and the opposite end extending normally beyond the face of the nut and provided with a projection at its end which would project beyond the face of the nut when the key is wholly within the groove.

1,353,778. HOOP-ROLLING DEVICE. JAMES ALEXANDER MOORE, Weir, Kans., assignor of one-half to John Young, Weir, Kans. Filed Feb. 16, 1920. Serial No. 359,048. 3 Claims. (Cl. 46—38.)



3. A device of the character described comprising a frame having a manipulating handle, a hoop engaging friction roller on said frame, a hoop retaining device cooperating with said roller, guide members on the frame, rotary crank disks actuated by the roller and provided with wrist pins, and reciprocatory bars pivotally engaging said wrist pins and having slotted portions slidably and pivotally engaging said guide members.

1,353,779. TROLLING-SPOON. JOHN THOMAS MOORE, Eureka, Calif. Filed Mar. 25, 1919. Serial No. 285,030. 5 Claims. (Cl. 43—45.)



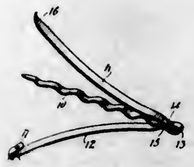
5. A trolling spoon, including a main shaft, a hub rotatably mounted upon said shaft, such hub including an end portion comprising two strips of material, a spoon provided with a shank, such shank being adapted to be interposed between said strips of material, said end engaging such shaft, a decoy-holding strip adapted to engage such shaft, and means adapted to engage the spood decoy-holding strip and end portions of the hub for retaining all of said parts in applied position.

1,353,780. TOOTHBRUSH. MATILDA MUELLER, Rugby, N. D. Filed June 5, 1918. Serial No. 238,339. 1 Claim. (Cl. 15—89.)



A toothbrush including a handle, separate forwardly extending brush backs rigid therwith at the front end and disposed in planes generally at approximately right angles to each other, said brush backs being each curved longitudinally to present a concavo-convex form with the convexities of both backs at the inner sides, and bristles on said convex inner sides of the brush backs, the ends of the bristles lying in planes at angles corresponding approximately with two sides of a square so that either brush element constituted by a brush back and its bristles may be presented to a row of teeth at the inner side thereof and conform generally to its curvature and the other brush element presented to the crowns of the row of teeth, or one brush element be presented to the outer surfaces of a row of teeth and the other brush element be presented to the crowns of the teeth.

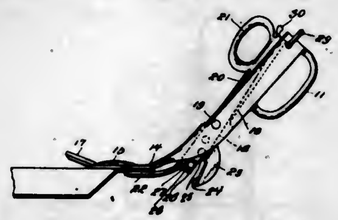
1,353,781. HAIR-WAVER. HARRY NATKIEL and ISADORE FREEDMAN, New York, N. Y., assignors of one-third to Louis Potemkin, New York, N. Y. Filed Oct. 30, 1919. Serial No. 334,533. 2 Claims. (Cl. 132—18.)



1. The herein described hair waver comprising a plurality of bars, the outermost two of which are formed from the same piece of spring material bent sharply upon itself at about the middle and said two arms having an inherent tendency to spring outward from each other at their free ends, another of the bars lying between the two aforesaid bars having one end fastened rigidly within said sharp bend at the point of connection of the first two mentioned bars, the last mentioned bar being of a sinuous form, and means to interlock the two free ends of the first mentioned bars together over the end of the sinuous bar.

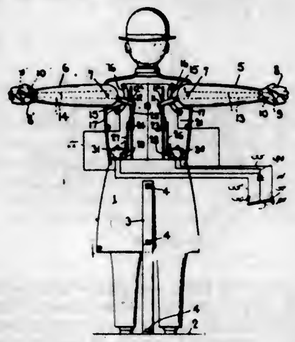
1,353,782. LIFTER. CHARLES NELSON, Skykomish, Wash. Filed June 17, 1919. Serial No. 304,861. 2 Claims. (Cl. 294—31.)

1. A device of the character described comprising a handle member terminating at one end in a finger engaging loop and provided at said end with a longitudinally extending inclined recess, the other end portion of said handle member being U-shaped in cross section whereby to provide an opening communicating with said recess, the terminal of said second named end portion being inclined and being widened at both sides to provide a jaw, a second member disposed within the U-shaped portion of said first named member and pivoted adjacent the juncture



of the U-shaped portion with one end of the recess, said second named member being disposable within said recess and terminating at one end in a finger engaging loop, and the other terminal of said second named member being widened and curved to provide a jaw coöperating with said first named jaw.

1,353,783. DIRECTION-INDICATOR. JOHN W. PATTERSON, Memphis, Tenn. Filed Mar. 14, 1917. Serial No. 154,829. 1 Claim. (Cl. 177—327.)



A direction indicator including a hollow body having a recessed shoulder, a movable arm fulcrumed in the recess adapted to move in a vertical plane, a translucent hand attached to the arm, an incandescent lamp disposed within the hand, an arcuate dielectric block, current distributing arms secured to the movable arms having current extensions and bearing blocks movable over the dielectric block, contact strips on the dielectric block at each side thereon in engagement with the movable block, a cross-head and guide, link connections between the cross head and the crank extensions, an actuating motor including a crank disk, link connection between the crank disk and the cross-head, a battery for actuating the motor and the incandescnt lamp, a movable switch arm, and switch contact adapted to be engaged by the arms for energizing the motor and the incandescent lamp simultaneously.

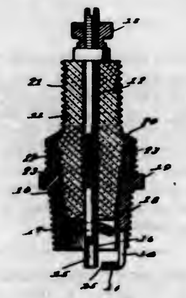
1,353,784. STOVE-LEG AND CASTER. JOHN PETERSON, North Mankato, Minn. Filed Sept. 24, 1919. Serial No. 325,831. 7 Claims. (Cl. 16—165.)

6. A device of the character described including a shank having a shoulder, a post slidable upon the shank, a caster carried by the post, the post being shiftable for projecting the caster, and a horizontally disposed locking member



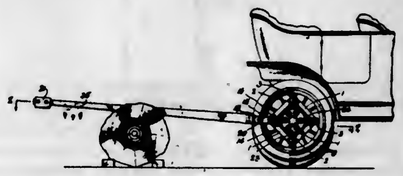
shiftable with the post but rotatable theron to coact with said shoulder for locking the post against retraction.

1,353,785. SPARK-PLUG. JOHN JELLIFF PLATT, Devon, Milford, Conn. Filed Aug. 18, 1919. Serial No. 318,246. 4 Claims. (Cl. 125—169.)



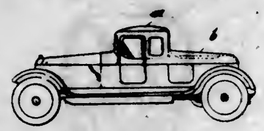
1. A spark plug comprising a shell, an insulating bushing partly fitted therein, electrodes carried by said shell and bushing respectively, and said shell and bushing being threaded exteriorly, and unitedly forming a continuous spiral passage for the radiation of heat.

1,353,786. POWER-TRANSMISSION ATTACHMENT FOR AUTOMOBILES. DREW D. ROBERTS, Perry, Fla. Filed May 22, 1920. Serial No. 383,528. 3 Claims. (Cl. 74—106.)



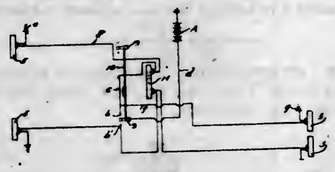
1. In a power transmission attachment for automobiles, a skeleton frame comprising relatively adjustable members, brace arms spanning the frame and adjustable thereon, legs extending from the arms and terminating in a clamping member, and a clamping member coöperating with the other clamping member for securing the frame to the spokes of an automobile wheel.

1,353,787. BODY OF MOTOR ROAD-VEHICLES. WILLIAM IVEY ROGERS, Birmingham, England. Filed July 2, 1919. Serial No. 308,122. 1 Claim. (Cl. 296—102.)



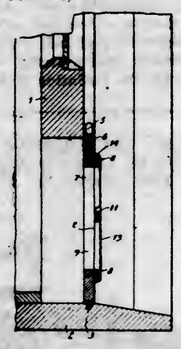
A demountable cover for a motor vehicle body having fore and rear seats, said cover being rigid and arranged to fit directly over the fore seat and to extend therefrom to the dash, and being also provided with a rear extension shaped to fit the rear part of the body and directly over the rear seat and form a boot.

1,353,788. DIRECTION-INDICATOR. ROBERT PEAY SAFELY, Oakland, Calif. Filed Dec. 19, 1919. Serial No. 345,958. 2 Claims. (Cl. 40—132.)



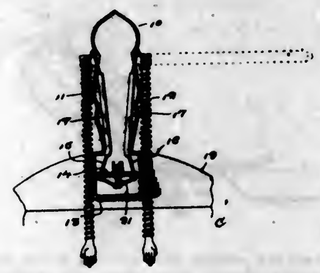
1. In a direction indicator for vehicles, a plurality of light housings on the front and rear of the vehicle with arrows adapted to indicate one or more directions that the vehicle is to take; a light source in each of the housings, a circuit connecting the said light sources, and dual means for selectively making and breaking the circuit to the said light sources comprising a pair of switches mounted on the instrument board of the vehicle, with means connecting the same so that the actuating of one switch will actuate the other switch.

1,353,789. WINDOW-VENTILATOR. FRANK SCELTZ, Harrison, N. Y. Filed Feb. 9, 1920. Serial No. 357,464. 4 Claims. (Cl. 98—31.)



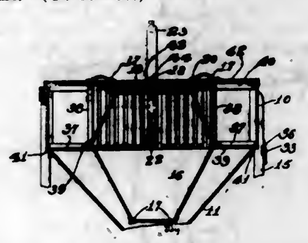
4. A window ventilator, including a frame formed with a cut-out portion, under-cut strips attached to said frame and arranged adjacent the edges of said cut-out portion, the strips arranged adjacent the longitudinal edges of the cut-out portion being elliptically disposed one with respect to the other, and additional strips extending across the face of said cut-out portion and parallel to one of the strips extending adjacent one of the longitudinal edges of said cut-out portion, said latter strip being under-cut along the side nearest to the strip which it parallels, and a piece of material formed with a contractible band adapted to be removably applied to certain of said strips said material being held taut by means of said elliptically disposed strips.

1,353,790. AUTOMOBILE PILOT-SIGNAL. CHRISTOPHER SEALY, Brooklyn, N. Y. Filed May 8, 1920. Serial No. 379,910. 3 Claims. (Cl. 116—51.)



1. A pilot signal for automobiles having a figure provided with right and left pivotal arms, and means for mounting the same upon the hood of a car, a shaft or operating rod mounted in longitudinal relation with the vehicle and having a crank arm flexibly connected to said arms, and means whereby rocking or longitudinal movement may be imparted to said operating rod for actuating either or both of said signaling arms.

1,353,791. WASHING-MACHINE. JOHN W. SEIFERT, Houston, Tex. Filed Aug. 6, 1919. Serial No. 315,622. 4 Claims. (Cl. 68—37.)



3. In a washing machine, a casing, a polygonal basket in said casing and having its sides hingedly connected, trackways in said casing, rollers carried by the hinge members of certain of the said sides and resting upon said trackways, and means for exerting pressure upon said basket at an angle to the direction of said trackways.

1,353,792. WASHBOARD. GEORGE W. SHOEMAKER, Dalton, Pa. Filed Dec. 30, 1919. Serial No. 348,335. 4 Claims. (Cl. 68—29.)



1. The combination with a washboard having an opening therein for the reception of a cake of soap, of a strip

mounted back of the board and adjustable relative thereto, soap engaging means carried by the strip and coöperating means upon said strip and the uper end of the washboard for holding the strip against movement relative to the opening.

1,353,793. LOOP-TRANSFERRING DEVICE. CHARLES J. SIBBALD, CHARLES T. A. SIBBALD, and JOHN O. SIBBALD, Troy, N. Y. Filed June 18, 1919. Serial No. 305,052. 7 Claims. (Cl. 66—32.)



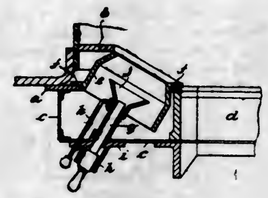
2. A transferring device for knitted articles, comprising two normally straight sections, fingers carried by the sections to engage the needles and receive the loops, and a ring carrier in which said sections may be held to circular form.

1,353,794. DERAILMENT-BRAKE. JAMES T. SMITH, Takoma, Wash. Filed Jan. 27, 1920. Serial No. 354,473. 2 Claims. (Cl. 246—170.)



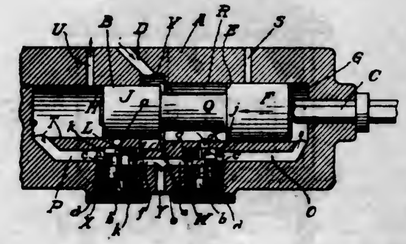
1. A safety air brake appliance for a car comprising an auxiliary air valve located in an offset portion of the air line of the car, said auxiliary air valve serving as an exhaust valve and being normally closed, a slide rod connected with said valve and adapted to operate the latter and to move a predetermined distance in either direction, and an adjusting rod connected with said slide rod and pivoted for horizontal movement upon the car truck bolster.

1,353,795. LIQUID-FUEL FITTING FOR FURNACE-FRONTS. LANCELOT EUSTACE SMITH, South Shields; CORNELIS ZULVER, London, and HERBERT ALEXANDER THOMPSON, North Shields, England. Filed Sept. 6, 1919. Serial No. 322,212. 1 Claim. (Cl. 158—4.)



In a furnace front capable of use with solid or liquid fuel as desired, the combination with a front plate and a rear baffle plate of a hollow cone open at both ends and interposed between said front plate and baffle plate, a casing outside the front plate and inclosing the front end of said cone, said casing forming a chamber on one side of the opening through which solid fuel is fed, and a support mounted upon the front wall of said casing to receive the burner for liquid fuel, substantially as herein described.

1,353,796. FLUID-OPERATED PERCUSSIVE TOOL. HAROLD I. STAGE, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 24, 1920. Serial No. 360,564. 7 Claims. (Cl. 121—18.)



1. In a fluid operated percussive tool, a cylinder having a differential bore and a differential piston operating therein, means for constantly maintaining fluid pressure on one of the forwardly driving pressure areas of said piston and means for intermittently supplying fluid pressure to the other driving pressure areas of said piston, including exhaust passages for exhausting the fluid pressure from said intermittently supplied areas and independent differential valves for controlling said passages in accordance with the movements of the piston.

1,353,797. ELASTIC-FLUID TURBINE. CHRISTIAN STENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,077. 7 Claims. (Cl. 253—77.)

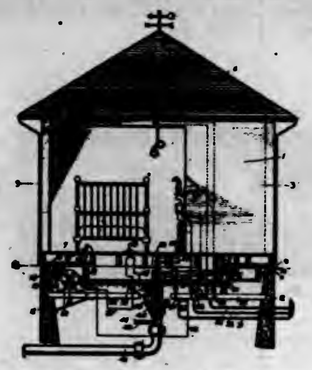


1. In an elastic fluid turbine, a bucket-carrying member, and buckets thereon which are provided with crushing strips.

1,353,798. REVOLVING HOUSE. SAMUEL MERET STEVENS, Asheville, N. C. Filed July 11, 1919. Serial No. 310,023. 3 Claims. (Cl. 20—1.)

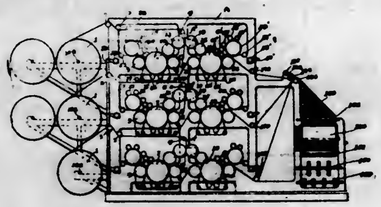
1. A revolving house comprising a house body, means for revolving the house, a plurality of means for connecting a water supply and waste pipe, and electrical wiring to the house body, said means including a fitting for the waste pipe which is rigidly secured to the house

body and slidingly connected with the stationary pipe, and a pair of fittings for the water pipes, said fittings



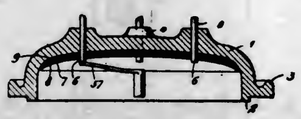
being connected with the house body and with the stationary part of the water pipe.

1,353,799. PRINTING AND FOLDING MACHINE. JOHN A. BOYCE, Chicago, Ill. Filed Oct. 17, 1913, Serial No. 796,080. Renewed Nov. 17, 1919. Serial No. 338,524. 46 Claims. (Cl. 270—6.)



3. In a printing press, a deck-driving shaft driven by a vertical drive shaft through the medium of bevel gears, a spur gear on the opposite end of said deck-drive shaft adapted to drive stationary plate cylinder driving gears through the medium of intermediate spur gears on each side of the spur gear on the deck drive shaft, and the plate cylinder driving gears positioned to drive movable impression cylinder driving gears, substantially as described.

1,353,800. PROCESS OF MOLDING COMPOSITE ARTICLES. HENRY C. EGERTON, Ridgewood, N. J. Filed May 2, 1919. Serial No. 294,315. 12 Claims. (Cl. 154—2.)



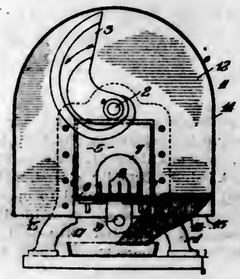
1. The process of molding composite articles which comprises simultaneously molding and uniting by heat and pressure a substantially rigid reinforcing portion comprising moldable phenolic condensation composition, a fabric layer carrying and impregnated by condensation cementing material and a fabric connector member having an exposed fibrous surface and having its other surface engaged by and united to said impregnated fabric and in subsequently molding and simultaneously uniting to said connector fabric member a facing of yieldable vulcanized rubber by a reduced heat curing treatment.

1,353,801. BAND CATSUP-CAP. CHARLES HAMMER, Queens, N. Y., assignor to American Metal Cap Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 19, 1918. Serial No. 258,881. 3 Claims. (Cl. 215—83.)



1. As an article of manufacture, a closure formed of a cup-shaped cap having an external bead or rim at the extreme lower edge, and a strip bent to form a ring with a flange on the upper edge that projects inwardly and engages the cap at the bead portion, which band has an extension on one end at the intermediate portion in the form of a tongue that laps the other end of the ring strip, such ring being arranged to have the lower edge bent inwardly against the lower wall of a bottle flange, whereby to lock the closure securely on the bottle and which band is adapted for easy removal by outward pull on the band tongue.

1,353,802. SLICING-MACHINE. WALTER CHANDLER KNAPP, Rochester, N. Y., assignor to Liberty Bread Slicer, Inc., Rochester, N. Y., a Corporation of New York. Filed Mar. 18, 1919. Serial No. 283,411. 4 Claims. (Cl. 146—12.)



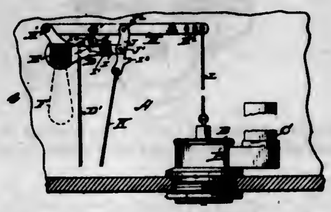
2. In a slicing machine, the combination of a frame, a knife revolubly mounted therein, a hood for protecting the knife, and a crumb chute secured to the walls of the hood and adapted to direct crumbs downwardly and inwardly to a point beneath the knife.

1,353,803. SLICING-MACHINE. WALTER CHANDLER KNAPP, Rochester, N. Y., assignor to Liberty Bread Slicer, Inc., Rochester, N. Y., a Corporation of New York. Filed Mar. 21, 1919. Serial No. 284,037. 6 Claims. (Cl. 17—24.)



1. In a slicing machine, the combination of a frame, a cutter, a chute for the material to be sliced, a worm revolubly mounted in the frame beneath the chute, a pusher in the chute for feeding the material to the cutter, a pair of arms to which the pusher is secured adjacent its lateral edges, and means for operatively connecting said arms with the worm.

1,353,804. CONTROLLING MECHANISM FOR FLUSHING-VALVES. FREDERICK A. SCHOSSOW, Detroit, Mich. Filed Jan. 7, 1920. Serial No. 349,932. 3 Claims. (Cl. 4—5.)

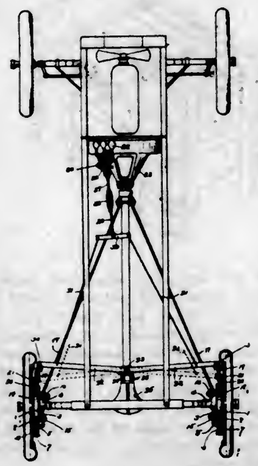


1. In a device of the character described, a tank, a discharge valve, a controlling lever from which the discharge valve is suspended, a bell-crank link, a fixed support to which said bell-crank link is pivoted, a link connection between the bell-crank link and the controlling lever, a bell-crank lever adapted to coöperate with the bell-crank link and controlling lever, whereby the discharge valve may be raised from its seat, and a float whereby the discharge valve may be raised in an open position when manually raised until the altitude of the water in the tank is insufficient to be longer effective to support the valve in its open position.

1,353,805. INITIAL DETONATING AGENT. WALTER O. SNELLING, Allentown, Pa. Filed May 6, 1920. Serial No. 379,292. 5 Claims. (Cl. 52—2.)

5. In the preparation of lead azid the process which comprises causing an alkali azid and a soluble salt of lead to react in a solution of glue.

1,353,806. BRAKE FOR MOTOR-DRIVEN VEHICLES. SAMUEL H. LEWIS, New York, N. Y. Filed Feb. 20, 1918. Serial No. 218,194. 9 Claims. (Cl. 188—18.)



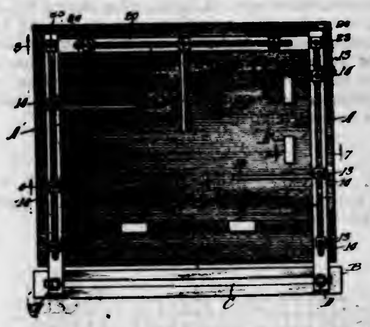
1. Brake mechanism comprising in combination a pair of rotatable brake drums having their axes substantially in alinement, a pair of brake bands surrounding the same, means for supporting said bands, operating means connected to the ends of each of said bands, a pair of levers connected at their outer ends to said operating means, said levers extending toward each other and being pivoted at their inner ends, and means for moving said levers about their pivots to actuate said operating means.

1,353,807. ROOFING-TILE AND FASTENING MEANS THEREFOR. WALTER I. CHAPMAN, Jersey City, N. J. Filed Apr. 23, 1918. Serial No. 230,241. 5 Claims. (Cl. 108—10.)



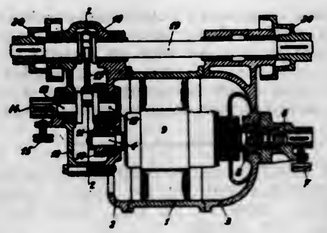
1. A tile having a marginal portion at its lower end adapted to form an overlap and a marginal portion at its upper end adapted to underlie an overlapping portion of an adjacent tile; fastening means secured to the under side of said overlapping tile and coöperating with the said marginal overlap to form a socketed seat for the reception of the underlying portion of an adjacent tile; and notches in the upper edge of the underlying portion adapted to interlock with the fastening means on the overlapping portion of an adjacent tile.

1,353,808. GRIPPER FOR PRINTING-PRESSES. ALBERT S. KOROB, Chicago, Ill. Filed Apr. 4, 1919. Serial No. 287,435. 2 Claims. (Cl. 101—408.)



1. The combination with a gripper having a longitudinal slot therein, of blocks located on opposite sides of the gripper and clamped to the gripper by a screw passing through said slot, one of said blocks having a groove in its face perpendicular to the line of the slot in the gripper, and a finger secured in said groove by the clamping action of said screw.

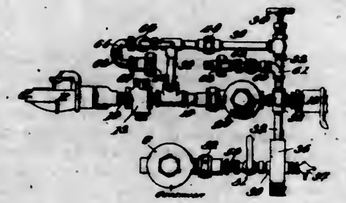
1,353,809. MASSAGING-MACHINE. ANTON STRAESSLE, Zurich, Switzerland. Filed Apr. 2, 1919. Serial No. 286,852. 5 Claims. (Cl. 128—63.)



1. In a massage machine, a shaft mounted for oscillatory movement and provided with a pair of stepped cones.

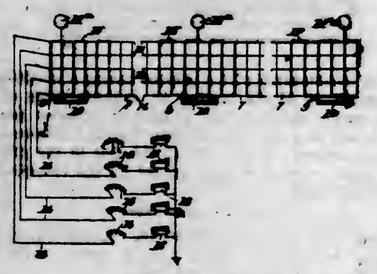
means to impart rapid oscillatory movement to said shaft and cones, an endless flexible band engaged with the cones and having its leads arranged in parallel spaced relation and provided with massage elements, and flexible connections between said massage elements.

1,353,810. PORTABLE TESTING APPARATUS FOR WATER-DISTRIBUTING SYSTEMS OF RAILWAY PASSENGER-CARS. HARRY A. MONTGOMERY, Baltimore, Md. Filed Jan. 14, 1920. Serial No. 351,296. 11 Claims. (Cl. 73—51.)



1. A portable combined with and individual testing apparatus for the water supply system of an individual railway car, said apparatus comprising a situ testing means, including a piping, brake hose coupling members, a testing reducing valve and an air gage connected therewith, operative in connection with the system for testing the governor valve of the system while in situ therein, an individual testing means including an extension connected with said piping and adapted to receive said governor valve for testing when detached from the system, and means adapting said apparatus to perform said testing functions successively.

1,353,811. GUARD. DAVID J. MUNCY, Amarillo, Tex. Filed May 29, 1917. Serial No. 171,718. 4 Claims. (Cl. 114—240.)



1. A guard comprising a metallic reticulated fabric that is covered with insulating material, a mine attached to and electrically connected with the metallic element of the fabric, a battery, the parts being associated to complete an electric circuit through the medium in which the fabric is submerged when a part of the fabric is ruptured.

1,353,812. GEAR-CASING AND BAND-OPERATING DEVICE FOR AUTOMOBILES. JOHN T. PARRISH, Duluth, Minn. Filed Oct. 20, 1919. Serial No. 331,773. 7 Claims. (Cl. 74—56.)

1. In a power transmission mechanism of the type wherein a plurality of bands are used to brake certain parts of said mechanism, of an upper section therefor having an opening therein greater in extent than the diameter of the transmission bands and a band adjusting shaft



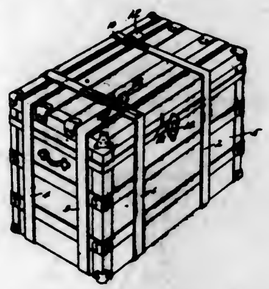
therein pivotally adjustable through the opening to permit of the bands being removed from the housing in their entirety.

1,353,813. COLLAPSIBLE RIVET-MOLD. THOMAS J. HUGHES, Seattle, Wash. Filed May 22, 1920. Serial No. 383,521. 5 Claims. (Cl. 22—123.)



1. In a rivet-mold of the character described, a stem, a collapsible mold member comprising a plurality of segments hingedly connected to an end of said stem, a sliding collar on the stem, and braces connecting said collar with the respective segments whereby movements of the collar axially of the stem will effect the expansion of said member.

1,353,814. TRUNK-BAND. RALPH TELLER EMERY, Cleveland, Ohio. Filed Mar. 12, 1920. Serial No. 365,414. 1 Claim. (Cl. 190—27.)

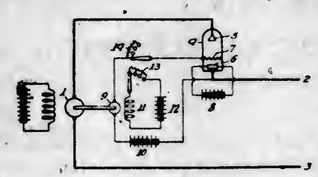


A device of the character described, comprising two pairs of parallel bands, said pairs of bands disposed at right angles to each other, both members of one pair of bands being removably connected to both members of the other pair of bands at their intermediate portion, staples and hasps on the opposite ends of one pair of bands, the other pair of bands having slots in their ends to receive the staples, and the ends of the bands having slots adapted to be locked between the ends of the bands having staples and hasps adjacent oppositely disposed corners on the upper side of the trunk.

1,353,815. CONTROLLING AND REGULATING APPARATUS. FREDERICK W. MEYER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 13, 1917. Serial No. 142,243. 22 Claims. (Cl. 171—312.)

1. The combination of a machine for converting energy and subject to varying load and supply conditions, an

electroionic valve associated therewith to regulate said machine simultaneously with the varying conditions, and

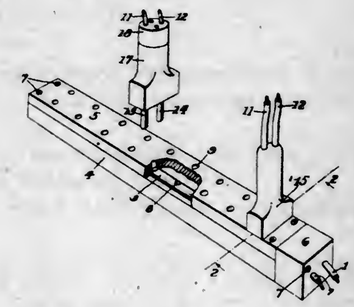


means simultaneously responsive to said conditions and creating an electromotive force which controls the effect of said valve.

REISSUES.

14,950. ELECTRICAL SWITCH DEVICE. WILLIAM F. HESSEL, New York, N. Y. Filed Aug. 11, 1919. Serial No. 316,923. Original No. 1,296,801, dated Mar. 11, 1919, Serial No. 185,026, filed Aug. 8, 1917. 6 Claims. (Cl. 173—334.)

6. A portable tap switch base constituting a complete independent working unit free from means for operatively connecting it to a like unit, said switch-base including a rigid housing of insulating material having longitudinally extending parallel recesses formed therein, said recesses being of substantially uniform cross-sectional area throughout their length and having their longitudinal and end walls spaced from the longitudinal and end walls of said housing, and metal bars positioned within and concealed



by said recesses and provided with holes, said housing having openings formed therein communicating with said recesses and registering with the holes in said bars and adapted to direct the conducting member of a detachable plug into the holes in said bars, said switch base being free from any exposed conducting parts.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 21, 1920.

[PUBLISHED SEPTEMBER 22, 1920.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 98,642. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WEIDEMAN COMPANY, Cleveland, Ohio. Filed Oct. 13, 1916.

EUCLID

Particular description of goods.—Flavoring Extracts for Foods, Cocoa, Coffee, Crushed Fruit, Preserves, Broken Cherries, Soda-Syrup, Syrup, Extracted Honey, Soups, Soup-Meat, Canned Chicken, Boned Chicken, Corned Beef, Pigs' Feet, Tongue, Sliced Ham, Potted Ham, Sandwich-Ham, Mince-Meat, Dried Beef, Oysters, Sardines, Salmon, Lobsters, Sauer-Kraut, Canned Beans, Canned Peas, Baked Beans, Succotash, Canned Corn, Canned Pumpkin, Canned Beets, Canned Spinach, Canned Sweet Potatoes, Canned Tomatoes, Condensed Milk, Rice, Pop-Corn, Currants, Prunes, Egg-Plums, Pineapple, Peaches, Pears, Green-Gage Plums, White Cherries, Apricots, Pancake-Flour, Buckwheat-Flour, Pastry-Flour, Ginger, Cinnamon, Allspice, Cloves, Pepper, Pepper Sauce, Table Sauce, Peanut-Butter, Salted Peanuts, Salad-Oil, Olive Spread, Mustard Relish, Prepared Mustard, Tomato Mustard, Tomato Catsup, Catsup, Snappy Dressing, Rolled Oats, Raisins, Olive-Oil, Spanish-Style Salad, French-Style Salad-Dressing, Rolled Avena, Tuna Fish, Figs, Dates.

Claims use since Sept. 1, 1888.

Ser. No. 107,904. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BIG DIAMOND MILLS CO., Minneapolis, Minn. Filed Dec. 12, 1917.

BIG DIAMOND

Particular description of goods.—Wheat-Flour.

Claims use since about the 1st day of June, 1906.

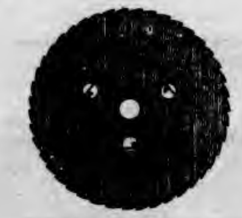
Ser. No. 113,317. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PATEK BROTHERS, Milwaukee, Wis. Filed Sept. 23, 1918.

PAT-X

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints, Calcimines, Varnishes, and Painters' Enamels and Stains.

Claims use since about July 30, 1918.

Ser. No. 117,054. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MILLER SAW-TRIMMER COMPANY, Pittsburgh, Pa. Filed Mar. 31, 1919.



Being a representation of a red disk having serrated edges.

Particular description of goods.—Printers' Machinery—Namely, Feeding Mechanisms for Printing-Presses, Machines for Cutting, Trimming, and Otherwise Treating Type-Slugs.

Claims use since Jan. 1, 1907.

Ser. No. 118,100. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ADAM-CHRISTIAN CO., Richmond, Va. Filed May 3, 1919.

SUNSHINE

Particular description of goods.—Fruit and Flavoring Extracts, Fruit Syrups, and Crushed Fruit for Use in the Preparation of Non-Alcoholic Beverages.

Claims use since Jan. 1, 1915.

Ser. No. 120,237. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RALPH D. BROWN, Dubuque, Iowa. Filed July 3, 1919.



Particular description of goods.—Candied Popcorn Crispettes.
Claims use since May 19, 1920.

Ser. No. 120,287. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE PERFECTION AUTO PARTS COMPANY, Cleveland, Ohio. Filed July 5, 1919.

FERROLYTE

Particular description of goods.—Pistons.
Claims use since May, 1917.

Ser. No. 120,886. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMOAK & SON CO., Reading, Pa. Filed July 24, 1919.

SKOTCHEMINT

Particular description of goods.—Chewing-Gum.
Claims use since May 25, 1916.

Ser. No. 122,047. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KABUSHIKI KAISHA HIRO SAMPEI SHOTEN, Tokyo, Japan. Filed Aug. 27, 1919.

LAIT

Particular description of goods.—Perfumes, Incense, and Toilet Articles—Namely, Perfumed Waters, Perfumed Oils, Face-Powders, and Hair-Ointments.
Claims use since April, 1906.

Ser. No. 122,595. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DI BERNIS MFG. CO., Cleveland, Ohio. Filed Sept. 12, 1919.



No claim being made to the words "Face Powder."
Particular description of goods.—Face-Powder.
Claims use since Feb. 1, 1919.

Ser. No. 123,614. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA SANITARY CANNING CO., Los Angeles, Calif. Filed Oct. 10, 1919.

Oak Knoll

Particular description of goods.—Canned Fruits—Namely, Canned Peaches, Canned Apricots, and Canned Pears.
Claims use since June 1, 1919.

Ser. No. 123,870. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM H. BRUNING, Evansville, Ind. Filed Oct. 17, 1919.

HOME DRIP

Consisting of the words "Home Drip."
Particular description of goods.—Ground Coffee and Coffee in the Bean.
Claims use since Sept. 11, 1919.

Ser. No. 124,582. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. TIREL, Paris, France. Filed Nov. 5, 1919.

Rubigine
Tirel

Particular description of goods.—Chemical Products for Removing Rust-Stains.
Claims use since October, 1915.

Ser. No. 124,856. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Nov. 13, 1919.

ARISTOCRAT

Particular description of goods.—Safety-Razors.
Claims use since August, 1914.

Ser. No. 125,397. (CLASS 15. OILS AND GREASES.) THE MERRILL PROCESS CO., Boston, Mass. Filed Nov. 28, 1919.

CALORENE

Particular description of goods.—Mineral Oils Having High Carbonization Points and High Viscosity Suitable for Continuously Conveying Heat by Circulation Between Heating Apparatus and Heat-Radiating Apparatus.
Claims use since Nov. 13, 1919.

Ser. No. 125,529. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VINCENT V. BONKOWSKI, Detroit, Mich. Filed Dec. 3, 1919.

Manna
LAXATIVE WAFERS

No claim is made to the words "Laxative Wafers" apart from the mark shown.
Particular description of goods.—Laxative Wafers.
Claims use since Nov. 1, 1919.

Ser. No. 126,327. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DANIEL JAQUET, Seine, France. Filed Dec. 22, 1919.



No exclusive right to the use of the word "Parfums" being claimed except as associated with the other features of the mark.
Particular description of goods.—Perfumes, Face-Powders, Face-Cream, Face-Paints, Lotions for the Complexion, Lip-Sticks, and Pencils for the Eyebrows.
Claims use since Mar. 3, 1919.

Ser. No. 126,375. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRAPE OLA PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 23, 1919.

Grape Ola

Particular description of goods.—Flavoring Material in the Nature of Fruit Syrup for Foods.
Claims use since Aug. 1, 1910.

Ser. No. 126,835. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ASSOCIATED DENTAL SUPPLY CO., San Francisco, Calif. Filed Jan. 5, 1920.

E.R. PARKER

Particular description of goods.—Dental Pastes, Mouth-Washes, and Pyorrhea Remedies.
Claims use since Jan. 1, 1919.

Ser. No. 127,777. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEACOAST CANNING CO., Eastport, Me., and East San Pedro, Calif. Filed Jan. 30, 1920.



Particular description of goods.—Canned Sardines.
Claims use since Aug. 1, 1918.

Ser. No. 127,790. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AEROGRAPH COMPANY, LIMITED, London, England. Filed Jan. 31, 1920.

AEROGRAPH

Particular description of goods.—Air-Brushes, Spray Painting Apparatus Operated by Compressed Air.
Claims use since July 3, 1907.

Ser. No. 127,893. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Feb. 3, 1920.

CENTRAL

Particular description of goods.—Canned Goods—to wit, Apricots, Loganberries, Black Cherries, White Cherries, Muscat Grapes, Yellow Free Peaches, Pears, Pineapple, De Luxe Plums, Egg-Plums, Asparagus, String-Beans, Tomatoes, Jams, and Jellies.
Claims use since about the year 1901.

Ser. No. 127,993. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN FRANCIS BARVOETS, Everton, Liverpool, England. Filed Feb. 5, 1920.

ARTHOL

Particular description of goods.—Perfumery, Face-Creams, Tooth-Powder, Shampoos, Rouge, and Also Chemicals and Pharmaceutical Preparations—viz., Acetate of Amyl, (Confectioners';) Acetate of Benzyl, Extra, Free from Chlorin; Acetate of Benzyl O, Free from Chlorin; Acetate of Bornyl, Acetate of Citronellyl, Acetate of Geranyl, Acetate of Glyceryl, Acetate of Isobornyl, Acetate of Linalyl, Acetate of Menthyl, Acetate of Phenylethyl, Acetate of Phenylmethyl, Acetate of Phenylpropyl, Acetate of Rhodinyl, Acetate of Terpinyl, Acetophenone; Acid—Benzoic, Cinnamic, Phenylacetic; Alcohol—Benzylic, Cinnamic, Decylic C_{10}, Dodecylic C_{12}, Nonylic C_9, Octylic C_8, Phenylethylic, Phenylpropylic, Undecylenic C_{11}; Aldehyde—Anisic, Extra; Anisic, O; Benzoic, Free from Chlorin; Cuminic, Decylic C_{10}, Dodecylic C_{12}, Hepthylic C_7, Nonylic C_9, Octylic C_8, Phenylacetic, Undecylenic C_{11}; Ambranone, Ambrone E, Ambrone S; Amyl Acetate, (Confectioners';) Amyl Benzoate, Amyl Butyrate, Amyl Salicylate, Anethol, Anisate of Methyl, Anthranylate of Methyl; Aubépine, Extra; Aubépine, Liquid; Aubépine, Crystals; Aurantone, Begonone, Benzoate of Amyl, Benzoate of Benzyl, Benzoate of Citronellyl, Benzoate of Geranyl, Benzoate of Isobutyl, Benzoate of Linalyl, Benzoate of Methyl; Benzyl Acetate, Extra, Free from Chlorin; Benzyl Acetate O, Free from Chlorin; Benzyl Alcohol; Benzyl Aldehyde, Free from Chlorin; Benzyl Benzoate, Benzyl Butyrate, Benzoic Aldehyde, Benzylethyl Oxid, Benzylidene Acetone, Bergamont, Bergamone, Borneol, Bornyl Acetate, Bouvardone, Bromelia, Bromostyrol, Butyrate of Amyl, Butyrate of Benzyl, Butyrate of Citronellyl, Butyrate of Geranyl, Cheiranthone, Camphene, Carnation E, Carnation S, Cassie; Chevrefeuille, (see Honeysuckle;) Cinnamate of Amyl, Cinnamate of Benzyl, Cinnamate of Methyl, Cinnamate of Isobutyl, Citral T, Citral P, Citronellal, Citronellol G, Citronellol P, Citronellol T, Citronellyl Acetate, Citronellyl Benzoate, Citronellyl Butyrate, Civet, Coumarin, Cuir de Russie, Cyclamen, Cyclosione, Dianthone, Dibenzyl Oxid, Diphenylmethane, Diphenyl Oxid, Eucalyptol, Essence Styrax, Eugenol, Fleur d'Heliotrope, Fleur de Lilas, Fleur de Lys, Fleur de Muguet, Fleur de Violette, Foin, Gardenone, Geraniol P, Geraniol Palma Rosa, Geraniol T, Geranyl Acetate, Geranyl Butyrate, Geranyl Benzoate, Geranium A, Geranium B, Geranium Crystals; Geranium S, Geranium Vert, Girofiée, Glyceryl Acetate; Hawthorn, (see Aubépine;) Heliotrope-Blossom, Heliotropin; Heliotropin, Amorphous; Honeysuckle, Hyacinthol, Hyacinthe B, Hyacinthe E, Hyacinthe P, Hyacinthe S, Indol, Ionone, Iraldein, Ironone S; Ironone, Extra; Ironone BP, Ironone B; Ironone, Alpha; Iralnone, Isoborneol, Isoborneol Acetate, Isoeugenol, Isosafrol, Jacinthe; Jasmin, Extra; Jasmin B, Jasmin S, Jasmin CS; Lavender, Alpine; Lavender S, Lavender E, Leafone, Lilac-Blossom I and II, Lilac; Lily, French; Lily of the Valley I, Lily of the Valley II, Lily of the Valley III, Linden-Blossom, Linalol, Linalyl Acetate, Linalyl Benzoate, Melilot, Methyl Acetophenone, Methyl Anthranylate, Methyl Anisate, Methyl Benzoate, Methyl Cinnamate, Methyl Eugenol, Methyl Heptenone, Methyl Heptyl Ketone, Methyl Nonyl Ketone, Methyl Paracresol, Methyl Phenylacetate, Methyl Salicylate, Mimosa S, Muguet or Lilac, Menthol, Menthyl Acetate, Mentholone; Musk—Ambrette, Musk—Ketone, Musk—Liquid, Musk—Xylol; Narcissus, Nerol, Nerolin, Neroli E, Neroli S, New-Mown Hay, Niobe, Œillet, Œnanthol, Orchidée, Orchidin R, Orientone, Orris Resin, Oxid of Dibenzyl, Oxid of Diphenyl, Oxid of Diparacresyl, Oxid of Benzylethyl, Oxid of Phenylcresyl, Paracresyl Oxid Phenylacetate of Methyl, Phenylacetic Aldehyde, Phenylcresyl Oxid, Pêche, Percicone, Phenylethylol, Phenlyethyl Alcohol, Phenylethyl Acetate, Phenylpropyl Alcohol, Phenylpropyl Acetate, Pois de Senteur, Rhodinol I, Rhodinol II, Rhodinol Acetate, Rose H; Rose, Oriental; Rose R, Rose, Red; Rose Soap, Rose Tea, Roseol, Resindone, Salicylate of Amyl, Salicylate of Isobutyl, Salicylate of Methyl, Sandalone, Safrol, Scatol, Sweet-Pea, Syringa, Terpin Hydrate, Terpineol, Terpineol Acetate, Terpinolene, Tilleul, Trefolone, Trefol, Tonkinone, Triacetin, Tuberose, Vanillin, Vanillol S; Vanilla, Arthol; Violet A, Violet-Blossom; Violet, White; Violet, Wood; Violanone, Vert de Violette, Yanone, Yara-Yara, Ylang-Ylang, Wallflower.
Claims use since about Oct. 14, 1916.

Ser. No. 128,028. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM H. STONEMAN, Albany, N. Y. Filed Feb. 5, 1920.

STONAMEL

Particular description of goods.—Enamel Paints; Dry, Paste, and Ready-Mixed Paints.
Claims use since Oct. 18, 1919.

Ser. No. 128,029. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM H. STONEMAN, Albany, N. Y. Filed Feb. 5, 1920.

STONECOAT

Particular description of goods.—Ready-Mixed Paints.
Claims use since Oct. 18, 1919.

Ser. No. 128,059. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FRANCO-AMERICAN FOOD COMPANY, Jersey City, N. J. Filed Feb. 6, 1920.



Particular description of goods.—Canned Pork and Beans, Beans and Spaghetti in Hermetically-Closed Containers.
Claims use since about the 15th day of November, 1886; in connection with pork and beans since about May, 1911; in connection with beans since about January, 1920, and in connection with sphagetti since about May, 1911.

Ser. No. 128,295. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK CHAPMAN, Providence, R. I. Filed Feb. 12, 1920.



Particular description of goods.—Soldering-Flux.
Claims use since 1903.

Ser. No. 128,346. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANANIA FLORES, Marianna, Pa. Filed Feb. 13, 1920.



The lining on the drawing indicates the color blue.
Particular description of goods.—Perfume.
Claims use since about Jan. 1, 1919.

Ser. No. 128,347. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX FRAIBERGER, San Francisco, Calif. Filed Feb. 13, 1920.



Particular description of goods.—A Medicine for the Treatment of Anhidrosis.
Claims use since Jan. 10, 1920.

Ser. No. 128,367. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMORY SPEER MORRIS, Atlanta, Ga. Filed Feb. 13, 1920.

NI-LATE

Particular description of goods.—Insecticides.
Claims use since about June 1, 1919.

Ser. No. 128,637. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) YOUNG SMYTH FIELD COMPANY, Philadelphia, Pa. Filed Feb. 19, 1920.

Smythfield STAR DYES

No claim being made to the word "Dyes" apart from the mark as shown.
Particular description of goods.—Dyes.
Claims use since Feb. 5, 1920.

Ser. No. 128,707. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY H. SEEREE, St. Louis, Mo. Filed Feb. 20, 1920.

'Y DAMMIT

The words "A Rust Eradicator" are hereby disclaimed apart from the mark shown on the drawing.
Particular description of goods.—A Rust-Eradicator in the Form of Dry Powdered Chemicals.
Claims use since Jan. 10, 1920.

Ser. No. 128,863. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REMINGTON SALT COMPANY, Ithaca, N. Y. Filed Feb. 24, 1920.

REMINGTON

Without waiving any common-law rights applicant hereby disclaims the word "Remington" apart from the mark shown in the drawing.
Particular description of goods.—Salt.
Claims use since June 1, 1901.

Ser. No. 128,870. (CLASS 6. CHEMICALS MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN SVEDA, Detroit, Mich. Filed Feb. 24, 1920.



Trade-mark consists of applicant's portrait and autographic signature.
Particular description of goods.—External Medicine for Rheumatism, Neuralgia, and General Soreness.
Claims use since about Dec. 22, 1919.

Ser. No. 129,247. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) REX RELIEF COMPANY, Maryville, Tenn. Filed Mar. 4, 1920.



Particular description of goods.—A Medicinal Preparation for Treatment of Colds and the Liver.
Claims use since about Jan. 10, 1920.

Ser. No. 129,503. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDEAL DISINFECTANT CO., Newark, N. J. Filed Mar. 10, 1920.

IDICO

Particular description of goods.—Disinfectants and Deodorants.
Claims use since February, 1919.

Ser. No. 129,605. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RICHARD BROS. DIE WORKS, Detroit, Mich. Filed Mar. 12, 1920.



Particular description of goods.—Metal Working Machinery and Tools Comprising Dies, Punches, Die-Retainers, Punch-Retainers, Jigs, Drill-Chucks, Collet-Holders, and Milling-Cutters.
Claims use since on or about Feb. 2, 1920.

Ser. No. 129,803. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PROTO CHEMICAL CO., INC., New York, N. Y. Filed Mar. 16, 1920.

PROTO-FER

Particular description of goods.—Tonic and Restorative Preparations.
Claims use since Feb. 21, 1920.

Ser. No. 129,921. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE APPLE-LAX COMPANY, Winchester, Va. Filed Mar. 19, 1920.

"APPLE-LAX"

Particular description of goods.—A Pure Apple-Syrup Laxative.
Claims use since Mar. 4, 1920.

Ser. No. 129,927. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD F. HARPER, Philadelphia, Pa. Filed Mar. 19, 1920.



Particular description of goods.—Liniment for Rheumatism, Sprains, Bruises, &c.
Claims use since Feb. 19, 1920.

Ser. No. 129,938. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MACKIE PINE OIL SPECIALTY CO., INC., Covington, La. Filed Mar. 19, 1920.



Particular description of goods.—A Disinfectant.
Claims use since Dec. 15, 1919.

Ser. No. 130,007. (CLASS 39. CLOTHING.) AVEDON & COMPANY, INC., New York, N. Y. Filed Mar. 22, 1920.

AVEDON

The lining in the said word is only for shading.
Particular description of goods.—Women's and Misses' Blouses, Women's and Misses' Dresses, Women's and Misses' Coats, Women's and Misses' Outer Suits, Women's and Misses' Outer Skirts, Women's and Misses' Petticoats, Women's and Misses' Hosiery, Women's and Misses' Capes, and Women's and Misses' Wraps.
Claims use since the 12th day of September, 1912.

Ser. No. 130,039. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUDSON COFFEE MILLS, INC., New York, N. Y. Filed Mar. 22, 1920.



The English translation of the Chinese characters being "Fair Dealing."
Particular description of goods.—Tea.
Claims use since 1914.

Ser. No. 130,052. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MELLIER COMPANY, PERFUMER, St. Louis, Mo. Filed Mar. 22, 1920.

DARDANELLA

Particular description of goods.—Perfume, Toilet Water, Talcum Powder, Face-Powder, Bath-Powder, Bath-Salts, Headache-Cologne, Smelling-Salts, Almond-Meal, Toilet Cerate, Cold-Cream, Dry Cream, Rouge, Lip-Rouge, Eyebrow-Pencils, Tooth-Powder, and Tooth-Paste.
Claims use since Mar. 12, 1920.

Ser. No. 130,104. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MILE-A-MINUTE, INCORPORATED, Pittsburgh, Pa. Filed Mar. 23, 1920.



Particular description of goods.—A Preparation to Be Added to Gasolene for Increasing Mileage and Preventing Carbon.
Claims use since Feb. 24, 1920.

Ser. No. 130,149. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERIN M. MORTON, Centertown, Ky. Filed Mar. 24, 1920.

PINKERBS

Particular description of goods.—Laxative Tablets for Sluggish and Torpid Liver.
Claims use since Aug. 1, 1919.

Ser. No. 130,165. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRUIT SUPPLY COMPANY, St. Louis, Mo. Filed Mar. 25, 1920.



In the trade-mark as shown in the accompanying drawing the lettering "Fruit King" is white on a red background, the fruit is red, the leaves are green, the crown is red with gold bands, and the circular background for fruit and crown is yellow.
Particular description of goods.—Fresh Apples.
Claims use since Dec. 15, 1919.

Ser. No. 130,187. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WORSHAM COMPANY, Henderson, Ky. Filed Mar. 26, 1920.



The picture forming a part of the trade-mark being fanciful.
Particular description of goods.—An Eczema-Lotion.
Claims use since Feb. 18, 1920.

Ser. No. 130,201. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. A. BOON, Gary, Ind. Filed Mar. 26, 1920.

J. A. B.

Particular description of goods.—Liniment for Use in the Treatment of Rheumatism.
Claims use since Feb. 20, 1920.

Ser. No. 130,260. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL A. BALTRANAS, Chicago, Ill. Filed Mar. 27, 1920.



Particular description of goods.—Laxative Medicine or Bitters.
Claims use since Feb. 2, 1920.

Ser. No. 130,292. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REPUBLIC DRUGGIST SYNDICATE, INC., New York, N. Y. Filed Mar. 27, 1920.



Particular description of goods.—A Compound of Beef and Iron, a Blood-Purifier, a Compound Extract of Cod-Liver Oil; a Preparation for Kidney, Bladder, and Liver Troubles; a Uterine Tonic, an Iron-Peptonate-Manganese Compound, a Bowel-Regulator, a Nerve and Body Tonic.
Claims use since Jan. 1, 1920.

Ser. No. 130,310. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBANO & GANGEMI, Brooklyn, N. Y. Filed Mar. 29, 1920.

VERMUT

Particular description of goods.—A Tonic.
Claims use since about December, 1919.

Ser. No. 130,348. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VOSBURGH (INC.), Chicago, Ill. Filed Mar. 29, 1920.

QUINEGG

Particular description of goods.—A Shampoo Liquid and Shampoo Jelly.
Claims use since Apr. 1, 1908, and by the predecessor in business of said corporation, Ernest A. Vosburgh, deceased, since the 1st day of April, 1908.

Ser. No. 130,396. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED DRUG COMPANY, Boston, Mass. Filed Mar. 30, 1920.

Caloris

Particular description of goods.—Tooth-Paste.
Claims use since February, 1920.

Ser. No. 130,450. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY THAYER & CO., INC., Cambridge, Mass. Filed Mar. 31, 1920.

CUTEX

Particular description of goods.—Salves and Ointments for Pimples, Ringworm, Tetter, Eruptions, Blackheads, Irritation, Skin Humors, Scald-Head, Nettle-Rash, Erythema, Itch, Burns, Boils, Carbuncles, Poison-Ivy, Felons, Piles, and Eczema.
Claims use since July 6, 1911.

Ser. No. 130,499. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE C. S. WELCH COMPANY, New York, N. Y. Filed Apr. 1, 1920.

OSTARA

Particular description of goods.—Complexion-Powder, Toilet Rouge, and Talcum Powder.
Claims use since about Dec. 1, 1919.

Ser. No. 130,510. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEECHER-HOLLINS CO., Boston, Mass. Filed Apr. 2, 1920.

ARTRO

Particular description of goods.—Embalming Fluid.
Claims use since Jan. 10, 1920.

Ser. No. 130,567. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISCEGLIA BROTHERS, San Jose, Calif. Filed Apr. 3, 1920.

B-B

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since October, 1919.

Ser. No. 130,609. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE OMEGA CHEMICAL COMPANY, New York, N. Y. Filed Apr. 3, 1920.

Cadum

Particular description of goods.—Dentifrices
Claims use since October, 1909.

Ser. No. 130,623. (CLASS 6. CHEMICALS MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHEATS STOCK TONIC COMPANY, Winder, Ga. Filed Apr. 3, 1920.

Sheats



The picture is that of Mr. William Henry Sheats, a member of the applicant firm.
Particular description of goods.—Stock-Tonics and Worm-Powders.
Claims use since 1913.

Ser. No. 130,722. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GARDEN CHEMICAL COMPANY, New York, N. Y. Filed Apr. 6, 1920.

MELROSINE

Particular description of goods.—Insecticides.
Claims use since Mar. 10, 1920.

Ser. No. 130,728. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL OIL PRODUCTS CO., Harrison, N. J. Filed Apr. 6, 1920.

NOPCOCOIL

Particular description of goods.—Oils Suitable for the Tanning of Leather.
Claims use since Jan. 5, 1920.

Ser. No. 130,753. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TERESA CRISS, Shaw, Miss. Filed Apr. 7, 1920.



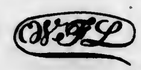
The portrait is that of the applicant.
Particular description of goods.—Hair-Growers and Hair-Shampooing Mixture.
Claims use since Jan. 14, 1920.

Ser. No. 130,781. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WETTERWALD & PFISTER CO., New York, N. Y. Filed Apr. 7, 1920.

AERO

Particular description of goods.—Anilin Dyes.
Claims use since October, 1917.

Ser. No. 130,838. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LIND DRUG CO., Orange, N. J. Filed Apr. 8, 1920.



Particular description of goods.—Remedies for Coughs, Colds, and La Grippe.
Claims use since February, 1920.

Ser. No. 130,904. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LLOYD BROTHERS, Cincinnati, Ohio. Filed Apr. 9, 1920.

GELBIA

Particular description of goods.—A Medicine for Hypodermic Use for Spasm of Any Part of Urinary Tract.
Claims use since 1885.

Ser. No. 130,905. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LLOYD BROTHERS, Cincinnati, Ohio. Filed Apr. 9, 1920.

COLLOIDUM

Particular description of goods.—Specific Medicines for Use in the Treatment of Diseases of the Kidneys and Bladder; for the Uterus; in Malarial Fevers; Worms; Constipation; Epilepsy; Catarrh; Leucorrhea, and Bruises.
Claims use since 1885.

Ser. No. 130,910. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTHA FLORENCE BUTCHER, Washington, D. C. Filed Apr. 9, 1920.

BUG BUTCHER

Particular description of goods.—Insecticides.
Claims use since Apr. 1, 1920.

Ser. No. 130,946. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BRAUER & KREIDT, Norlina, N. C. Filed Apr. 10, 1920.

ACCMILINE

Particular description of goods.—Liquid-Fuel Intensifier.
Claims use since Jan. 5, 1920.

Ser. No. 130,988. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OLIVER WILSON SPICER, Colorado Springs, Colo. Filed Apr. 10, 1920.

Flu-Cabs

Particular description of goods.—Tablets for La Grippe and Colds.
Claims use since Jan. 1, 1917.

Ser. No. 131,037. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OSCAR H. LOVELL, St. Louis, Mo. Filed Apr. 12, 1920.

Blue Whistler

Particular description of goods.—A Medicinal Preparation Which Acts on the Liver and Bowels.
Claims use since Mar. 1, 1919.

Ser. No. 131,059. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 13, 1920.

ARIMAL

Particular description of goods.—Antiseptic Liquid-Soap Shampoo and Bath-Foam.
Claims use since Jan. 12, 1913.

Ser. No. 131,060. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 13, 1920.

LA BELLE COQUETTE

Particular description of goods. Rouge Paste, Liquid or Powder.
Claims use since Nov. 10, 1920.

Ser. No. 131,062. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 13, 1920.

HIRSUTOL

Particular description of goods.—Hair Tonic and Invigorant.
Claims use since Mar. 1, 1911.

Ser. No. 131,066. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CORONA CHEMICAL COMPANY, Milwaukee, Wis. Filed Apr. 13, 1920.

CORONA CALSENATE

Particular description of goods.—Insecticides.
Claims use since Mar. 1, 1920.

Ser. No. 131,076. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM J. MEARS, Kansas City, Mo. Filed Apr. 13, 1920.

CHIGGERO

Particular description of goods.—A Preparation for the Treatment of Insect Bites and Stings.
Claims use since on or about June, 1916.

Ser. No. 131,081. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MIROLENE CO., Alsen, N. D. Filed Apr. 13, 1920.



Particular description of goods.—A Remedy for the Internal Treatment of Coughs and Colds.
Claims use since about Mar. 24, 1917.

Ser. No. 131,219. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOLIE, INC., New York, N. Y. Filed Apr. 16, 1920.

JOLIE

Particular description of goods.—Rouges, Face-Creams, Toilet Waters, Talcs, Perfumes, Face-Powders, Nail-Polishes, and Lip-Rouges.
Claims use since Mar. 10, 1920.

Ser. No. 131,229. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORMA-TONE CO., Boston, Mass. Filed Apr. 16, 1920.

NORMA-TONE

Particular description of goods.—Laxative Tablet.
Claims use since on or about Apr. 7, 1920.

Ser. No. 131,250. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AVALON FARMS COMPANY, Chicago, Ill. Filed Apr. 17, 1920.

AF

Particular description of goods.—A Tonic in Tablet Form for Hogs.
Claims use since Feb. 19, 1920.

Ser. No. 131,273. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LA MANNA, AZEMA & FARNAN, New York, N. Y. Filed Apr. 17, 1920. Under ten-year proviso.

PISPA

Particular description of goods.—Sardines.
Claims use since Dec. 1, 1894.

Ser. No. 131,287. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Dr. WILLIAM SEIBERT, Chino, Calif. Filed Apr. 17, 1920.

LAPIDAR

Particular description of goods.—Medicinal Pills, Said Pills Being Used as a General Medicinal Tonic.
Claims use since Apr. 1, 1918.

Ser. No. 131,295. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILLIS & ECKELS, Chicago, Ill. Filed Apr. 17, 1920.

FILMCRAFT

Particular description of goods.—Motion-Picture Films.
Claims use since Nov. 1, 1917.

Ser. No. 131,343. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. H. MARCY LABORATORIES INC., Framingham, Mass. Filed Apr. 19, 1920.

ANTIZYME

Particular description of goods.—Solutions Containing Combinations of Non-Specific Plant-Proteins Prepared for Hypodermic Intra-Muscular Injection.
Claims use since Feb. 12, 1920.

Ser. No. 131,418. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. ROGERS FLANNERY, Pittsburgh, Pa. Filed Apr. 21, 1920.

MOROIL

Particular description of goods.—A Preparation for Cleaning and Renovating Oil and Gas Wells.
Claims use since Jan. 1, 1920.

Ser. No. 131,440. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 21, 1920.

MONGOLA

Particular description of goods.—Food-Colors.
Claims use since Apr. 7, 1920.

Ser. No. 131,441. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 21, 1920.

SULTA

Particular description of goods.—Food-Colors.
Claims use since Apr. 7, 1020.

Ser. No. 131,442. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 21, 1920.

SITRO

Particular description of goods.—Food-Colors.
Claims use since Apr. 7, 1920.

Ser. No. 131,443. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 21, 1920.

KERINE

Particular description of goods.—Food-Colors.
Claims use since Apr. 7, 1920.

Ser. No. 131,444. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 21, 1920.

PLUMNA

Particular description of goods.—Food-Colors.
Claims use since Apr. 7, 1920.

Ser. No. 131,452. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHUPTRINE COMPANY, Savannah, Ga. Filed Apr. 21, 1920.

SHUCO

Particular description of goods.—Shampoo.
Claims use since Mar. 5, 1920.

Ser. No. 131,460. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. ALTMAN & Co., New York, N. Y. Filed Apr. 22, 1920.

ALSAM

Particular description of goods.—Perfume, Toilet Water, Talcum Powder, Face-Powder, Sachet-Powder, and Bath-Salt.
Claims use since Oct. 17, 1917.

Ser. No. 131,471. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EAGLE-PICHER LEAD CO., Cincinnati, Ohio. Filed Apr. 22, 1920.

PICHER

Particular description of goods.—Sulfuric Acid.
Claims use since 1888.

Ser. No. 131,582. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAGNOLIA CHEMICAL COMPANY, Houston, Tex. Filed Apr. 24, 1920.

Particular description of goods.—Germicides, Insecticides, and Disinfectants.
Claims use since Feb. 21, 1919.

Ser. No. 131,670. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OTTO SCHMIDT, New York, N. Y. Filed Apr. 26, 1920.



No claim being made to the exclusive use of any of the words appearing on the drawing except "Otto Schmidt's Chef" apart from the mark as shown.
Particular description of goods.—Russian Dressing and Mayonnaise.
Claims use since Apr. 12, 1920.

Ser. No. 131,710. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE LEVY, New Rochelle, N. Y. Filed Apr. 27, 1920.

TINTURO

Particular description of goods.—A Hair-Coloring Preparation.
Claims use since 1910.

Ser. No. 131,718. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MORTON CHEMICAL COMPANY, Seattle, Wash. Filed Apr. 27, 1920.

ASAPHEN

Particular description of goods.—Antipyretic and Diaphoretic Capsules for Use for Headaches, Colds, and La Grippe.
Claims use since Dec. 2, 1919.

Ser. No. 131,828. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROOSA & RATLIFF CHEMICAL CO., Cincinnati, Ohio. Filed Apr. 29, 1920.



Particular description of goods.—Toilet Preparations—Namely, Face-Powder, Rouge, and Cold-Cream.
Claims use since May 25, 1919.

Ser. No. 131,836. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SPRINGVILLE CANNING CO., Springville, N. Y. Filed Apr. 29, 1920.

Crescent

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since the year 1888.

Ser. No. 131,856. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMMONWEALTH CHEMICAL CORP., Jersey City, N. J., and New York, N. Y. Filed Apr. 30, 1920.

PLASTOX.

Particular description of goods.—A Camphor Substitute for Use in Making Celluloid.
Claims use since Mar. 1, 1920.

Ser. No. 131,890. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Apr. 30, 1920.

USANCO

Particular description of goods.—Deodorant and Germicide.
Claims use since April, 1918.

Ser. No. 131,925. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TALCUM PUFF CO., New York, N. Y. Filed May 1, 1920.

Lullaby

Particular description of goods.—Toilet Preparations—Namely, Talcum Powder.
Claims use since Apr. 23, 1920.

Ser. No. 131,989. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALUX LABORATORIES, INC., Seattle, Wash. Filed May 3, 1920.



Particular description of goods.—Hair-Shampoo.
Claims use since Apr. 1, 1920.

Ser. No. 132,249. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL GEORGE GORDON HENDERSON, Los Angeles, Calif. Filed May 10, 1920.

VEGECURA

Particular description of goods.—A Vegetable Compound for the Treatment of the Stomach, Liver, Bowels, Kidneys, and Blood.
Claims use since Sept. 15, 1919.

Ser. No. 132,295. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAKOTA CHEMICAL COMPANY, Sioux Falls, S. D. Filed May 11, 1920.



Particular description of goods.—Medicinal Preparations in Soft Capsules for the Treatment of Bot and Worm Ailments in Horses and Medicinal Powders for the Treatment of Worm Ailments in Hogs.
Claims use since on or about Apr. 1, 1918.

Ser. No. 132,309. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERCK & CO., New York, N. Y. Filed May 11, 1920.

SALYSAL

Particular description of goods.—Salicylic-Acid Ester of Salicylic Acid.
Claims use since Apr. 8, 1920.

Ser. No. 132,327. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TALCUM PUFF CO., Brooklyn, N. Y. Filed May 11, 1920.

Peter Pan

Particular description of goods.—Toilet Preparations—viz.; Talcum Powder.
Claims use since May 1, 1920.

Ser. No. 132,336. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. S. SCARBROUGH, Lufkin, Tex. Filed May 11, 1920.



Particular description of goods.—A Medicine to be Used in the Treatment of Gonorrhea.
Claims use since November, 1917.

Ser. No. 132,343, (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY BELL, Atlanta, Ga. Filed May 12, 1920.

AUTO-TABS

Particular description of goods.—A Preparation for the Treatment of Disorders of the Stomach and Liver.
Claims use since Apr. 1, 1917.

Ser. No. 132,406. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEARNS & WHITE CO., Chicago, Ill. Filed May 18, 1920.

PARALAX

Particular description of goods.—Laxative Paraffin-Oil.
Claims use since Sept. 1, 1915.

Ser. No. 132,417. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAGE & HILL CO., Minneapolis, Minn. Filed May 18, 1920.

Durasote

Particular description of goods.—Liquid Containing Creosote, &c., Used as a Wood Preserver.
Claims use since on or about Jan. 1, 1920.

Ser. No. 132,435. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB HAUSER, Oakland, Calif. Filed May 14, 1920.

KALITAN

Particular description of goods.—A Preparation for the Treatment of the Hair and Scalp.
Claims use since Apr. 10, 1920.

Ser. No. 132,543. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. MOORE, Sr., New Castle, Pa. Filed May 17, 1920.

C. A. M.

Particular description of goods.—Capsules to be Taken Internally for the Treatment of Piles.
Claims use since Jan. 1, 1915.

Ser. No. 132,554. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PENICK & FORD, LTD. INC., New Orleans, La. Filed May 17, 1920.



Particular description of goods.—Live-Stock-Feeders' Molasses.
Claims use since June, 1913.

Ser. No. 132,570. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHARLES EDWARD RITTLER, Dayton, Ohio. Filed May 17, 1920.

AMERICA'S PREMIER

Particular description of goods.—Non-Intoxicating Carbonated Beverages Containing Less Than One-Half of One Per Cent. Alcohol by Volume and Sold as a Soft Drink, Particularly Ginger-Ale, Lemon Sour, and Sarsaparilla.
Claims use since May 1, 1903.

Ser. No. 132,591. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ACHILLE CARRILLO, Chelsea, Mass. Filed May 18, 1920.



The portrait is of the applicant.
Particular description of goods.—A Medicine for Venereal Diseases.
Claims use since December, 1919.

Ser. No. 132,621. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM SELLERS & COMPANY, INCORPORATED, Philadelphia, Pa. Filed May 18, 1920. Under ten-year proviso.

SELLERS

Particular description of goods.—Starting-Valves, Check-Valves, and Strainers.
Claims use since 1865.

Ser. No. 132,622. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM SELLERS & COMPANY, INCORPORATED, Philadelphia, Pa. Filed May 18, 1920. Under ten-year proviso.

SELLERS

Particular description of goods.—Turning-Lathes, Planers, Drill-Presses, Boring-Mills, Boring, Drilling, and Milling Machines, Boring and Facing Machines, Slotting-Machines, Tool and Drill Grinding Machines, Steam-Hammers, Sand-Mixing Machines, Shaft-Hangers, Pillow Blocks and Pulleys, Injectors and Ejectors.
Claims use since 1848.

Ser. No. 132,624. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZAUDER BROS., INC., New York, N. Y. Filed May 18, 1920.

PELOTINTO

Particular description of goods.—Hair-coloring.
Claims use since May 12, 1920.

Ser. No. 132,682. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THEODORE K. BOESCH, Philadelphia, Pa. Filed May May 20, 1920.

SKEETO-GUARD

Particular description of goods.—A Mosquito-Repelling Toilet Powder.
Claims use since May 15, 1920.

Ser. No. 132,688. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ASA L. FITZGERALD, El Centro, Calif. Filed May 20, 1920.

PED-EASE

Particular description of goods.—Pile Remedy.
Claims use since Jan. 1, 1917.

Ser. No. 132,692. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEGEWISCH CHEMICAL WORKS, Chicago, Ill. Filed May 20, 1920.

SIROGEN

Particular description of goods.—A Preparation for Coughs, Colds, and First Stages of Consumption.
Claims use since Feb. 1, 1920.

Ser. No. 132,693. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IMPROVED CHILLING AND TRANSPORT LIMITED, London, England. Filed May 20, 1920.

Imchiller

Particular description of goods.—Chilled Fresh Meats, Such as Beef, Mutton, Lamb, Veal, Bacon, and Pork.
Claims use since November, 1919.

Ser. No. 132,748. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. H. LEE, Knoxville, Tenn. Filed May 21, 1920.

LEERO

Particular description of goods.—Preparation for Use in Promoting the Growth of Hair, a Hair-Dressing Oil, a Temple-Oil, and a Tetter-Salve.
Claims use since July, 1919.

Ser. No. 132,790. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAVANNA V. HOWARD, Chicago, Ill. Filed May 22, 1920.

LLAMA

Particular description of goods.—Hair-Tonic.
Claims use since Apr. 19, 1920.

Ser. No. 132,898. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB TANENBAUM, New York, N. Y. Filed May 24, 1920.

LaVette

Particular description of goods.—Toilet Preparations—viz., Rouge and Face-Powder.
Claims use since February, 1920.

Ser. No. 132,914. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. CRANE, Fort Wayne, Ind. Filed May 25, 1920.

1795

Particular description of goods.—A Preparation for Prevention and Relief of Coughs, Colds, Croup, Sore Throat, Tonsillitis, Pneumonia, Influenza, and Other Throat Troubles.
Claims use since Apr. 30, 1920.

Ser. No. 133,116. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) U. R. S. CANDY STORES, INC., New York, N. Y. Filed May 29, 1920.

Nightingale

Particular description of goods.—Candy.
Claims use since Apr. 26, 1920.

Ser. No. 133,121. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. AUERBACH & SONS, New York, N. Y. Filed June 1, 1920.

ANIMAL BLOCKS

Particular description of goods.—Chocolates.
Claims use since May, 1914.

Ser. No. 133,177. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WOODLANDS LIMITED, Dover, England. Filed June 1, 1920.

SALOX

Particular description of goods.—Flour-Improvers Comprising a Harmless Persulfate, Such as Potassium Persulfate or Ammonium Persulfate.
Claims use since Oct. 28, 1911.

Ser. No. 133,615. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DUBUQUE SPIRAL HARROW CO., Dubuque, Iowa. Filed June 12, 1920.



Particular description of goods.—Spiral Harrow.
Claims use since Mar. 1, 1920.

Ser. No. 133,675. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORRIS, INC., Atlanta, Ga. Filed June 14, 1920.



The words "Exquisite Candies" being specifically disclaimed.
Particular description of goods.—Chocolates, Bonbons, and Candies.
Claims use since Nov. 17, 1910.

Ser. No. 133,814. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN F. AYERS, Salem, N. J. Filed June 17, 1920.



No claim being made to the exclusive use of the word "Brand" apart from the mark as shown in the drawings.
Particular description of goods.—White Potatoes.
Claims use since July 17, 1911.

Ser. No. 133,930. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HERMIT-CROPSE MANUFACTURING COMPANY, Kansas City, Mo. Filed June 19, 1920.

BATOMETER

Particular description of goods.—Indicators for Indicating the Internal Condition of Storage and Other Batteries.
Claims use since Apr. 10, 1920.

Ser. No. 134,004. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL F. BEICH CO., Bloomington, Ill. Filed June 22, 1920.



Particular description of goods.—Candy.
Claims use since Sept. 1, 1919.

Ser. No. 134,180. (CLASS 15. OILS AND GREASES.) BIGHEART PRODUCING & REFINING COMPANY, New York, N. Y. Filed June 25, 1920.



Particular description of goods.—Petroleum Products—Namely, Crude Oil, Gasolene, Casing-Head Gasolene, Absorption-Gasolene, Naphtha, Benzin, Kerosene, Kerosene Distillate, Rerun Distillate, Treated Wax Distillate, Untreated Wax Distillate, Gas-Oil, Absorption-Oil, Cylinder-Oil, Fuel-Oil, and Lubricating-Oil.
Claims use since January, 1918.

Ser. No. 134,283. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNIVERSAL WINDING COMPANY, Cranston, R. I., and Boston, Mass. Filed June 26, 1920.

LEESONA

The trade-mark consists of the word "Leesona."
Particular description of goods.—Winding-Machines for Thread, Yarn, Cord, Twine, Rope, and Wire; Countershafts and Parts Thereof.
Claims use since Oct. 8, 1915.

Ser. No. 134,285. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE WYOMING SHOVEL WORKS, Wyoming, Pa. Filed June 26, 1920.

WYOMING
RED EDGE

Particular description of goods.—Shovels, Spades, Scoops, Mattocks, and Picks.
Claims use since Nov. 28, 1913.

Ser. No. 134,439. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TOCH BROTHERS, New York, N. Y. Filed June 30, 1920.

ARCTIC

Particular description of goods.—Paint-Pigments and Ready-Mixed Paints.
Claims use since 1884.

Ser. No. 134,481. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NEW ERA MFG. CO., New York, N. Y. Filed July 1, 1920.

NewEra

Particular description of goods.—Check-Writers.
Claims use since on or about June 23, 1911.

Ser. No. 134,571. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

T K-Alloy Steel

No claim being made to the words "Alloy Steel" apart from the mark shown in the drawing.
Particular description of goods.—Tool-Steels in Bars, Billets, and Shapes.
Claims use since about the year 1905.

Ser. No. 134,572. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

SAMSON

Particular description of goods.—Alloy Steels in Bars, Billets, and Shapes.
Claims use since about 1909.

Ser. No. 134,574. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

PRESTO

Particular description of goods.—Tool-Steel in Bars, Billets, and Shapes.
Claims use since about 1910.

Ser. No. 134,575. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

RDS READING DOUBLE SPECIAL

No claim being made to the words "Reading Double Special" apart from the mark shown in the drawing.
Particular description of goods.—Tool-Steels in Bars, Billets, and Shapes.
Claims use since about 1906.

Ser. No. 134,576. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

KW-DIE STEEL

No claim being made to the words "Die Steel" apart from the mark shown in the drawing.
Particular description of goods.—Tool-Steels in Bars, Billets, and Shapes.
Claims use since about 1904.

Ser. No. 134,577. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

J-Y ALLOY STEEL

No claim being made to the words "Alloy Steel" apart from the mark shown in the drawing.
Particular description of goods.—Alloy Steels in Bars, Billets, and Shapes.
Claims use since about 1911.

Ser. No. 134,579. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

CYCLOID
GEAR STEEL

No claim being made to the words "Gear Steel" apart from the mark shown in the drawing.
Particular description of goods.—Alloy Steels in Bars, Billets, and Shapes.
Claims use since about 1909.

Ser. No. 134,580. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

FLEXO
SPRING STEEL

No claim being made to the words "Spring Steel" apart from the mark shown in the drawing.
Particular description of goods.—Alloy Steels in Bars, Billets, and Shapes.
Claims use since about 1909.

Ser. No. 134,581. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

S-M PUNCH STEEL

No claim being made to the words "Punch Steel" apart from the mark shown in the drawing.
Particular description of goods.—Tool-Steel in Bars, Billets, and Shapes.
Claims use since about 1915.

Ser. No. 134,582. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

S-O GEAR STEEL

No claim being made to the words "Gear Steel" apart from the mark shown in the drawing.
Particular description of goods.—Alloy Steels in Bars, Billets, and Shapes.
Claims use since about 1914.

Ser. No. 134,584. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

NITRO

Particular description of goods.—Tool-Steels in Bars, Billets, and Shapes.
Claims use since about June 1, 1919.

Ser. No. 134,615. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FRED M. TAFT, Logansport, Ind. Filed July 6, 1920.

Taf-Tum

Particular description of goods.—Liquid Polish for Autos, Pianos, and Furniture.
Claims use since June 1, 1920.

Ser. No. 134,634. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JAMES BURNS & SONS, New York, N. Y. Filed July 7, 1920.

JUBILEE

Particular description of goods.—Roasters and Parts and Supplies for Same for Roasting Food Products Such as Coffee, Cocoa, Peanuts, Cereals, &c.
Claims use since 1914.

Ser. No. 134,703. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DENVER ROCK DRILL MANUFACTURING COMPANY, Denver, Colo. Filed July 8, 1920.

WAUGH HOIST

Particular description of goods.—Hoists.
Claims use since 1919.

Ser. No. 134,723. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN OGDEN, Philadelphia, Pa. Filed July 8, 1920.

KEYSTONE
Adjustable
Sickle

No claim is made to the words "Adjustable Sickle" apart from the trade-mark as shown.
Particular description of goods.—Sickles.
Claims use since Apr. 26, 1920.

Ser. No. 134,733. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SANI-MANI LABORATORY, Long Beach, Calif. Filed July 8, 1920.

Sani-Mani

No claim is made to the words "Clean Hands" apart from the mark shown.
Particular description of goods.—A Preparation Used to Soften Cuticle and Remove Stains.
Claims use since July, 1916.

Ser. No. 134,817. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) L. F. GRAMMES & SONS, Allentown, Pa. Filed July 12, 1920.

THE JIFFY HANDY
10-IN-1 WRENCH

No claim being made to the words "Wrench" and "Handy" apart from the other features of the mark shown on the drawing.
Particular description of goods.—Wrenches.
Claims use since November, 1919.

Ser. No. 135,109. (CLASS 15. OILS AND GREASES.) GUSTAVE A. PREISS, Elgin, Ill. Filed July 17, 1920.

IT GIVES THE WASHER PEP
PEP
OIL

No claim is made to the words "Washing Machine Oil" apart from the mark shown on the drawing.
Particular description of goods.—Lubricating-Oils.
Claims use since July 9, 1920.

Ser. No. 135,267. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPE COUNTY MILLING COMPANY, Jackson, Mo. Filed July 22, 1920.

Gold Leaf

Particular description of goods.—Wheat-Flour.
Claims use since 1869.

Ser. No. 135,268. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPE COUNTY MILLING COMPANY, Jackson, Mo. Filed July 22, 1920.

FLEUR DU CAP

Particular description of goods.—Wheat-Flour.
Claims use since Dec. 20, 1869.

Ser. No. 135,341. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) PAN AMERICAN SMELTING WORKS, INC., New York, N. Y. Filed July 23, 1920.



Particular description of goods.—White-Metal Alloys.
Claims use since Mar. 11, 1920.

Ser. No. 135,374. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LOGAN IRON AND STEEL COMPANY, Philadelphia, Pa. Filed July 24, 1920.

LISCO

Particular description of goods.—Bar-Iron.
Claims use since May 19, 1920.

Ser. No. 135,549. (CLASS 39. CLOTHING.) MARY ELIZABETH BAKER, Washington, D. C. Filed July 29, 1920.

Marie Louise

Particular description of goods.—Ladies' Hats and Bonnets.
Claims use since June 1, 1900.

Ser. No. 135,676. (CLASS 15. OILS AND GREASES.) ULTRA REFINED CRUDE PRODUCTS COMPANY, Chicago, Ill. Filed July 31, 1920.

Her-ene

Particular description of goods.—Deodorized Kerosene.
Claims use since June 1, 1920.

Ser. No. 135,703. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FEDERAL TOOL & ALLOY STEEL CORPORATION, New York, N. Y. Filed Aug. 2, 1920.

NORTHLAND

Particular description of goods.—Iron and Steel.
Claims use since June 15, 1920.

Ser. No. 135,704. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FEDERAL TOOL & ALLOY STEEL CORPORATION, New York, N. Y. Filed Aug. 2, 1920.

ODIN

Particular description of goods.—Iron and Steel.
Claims use since June 15, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 21, 1920.

184,869. MEMORANDUM-PAPER HOLDERS. ACCOUNTING MACHINE COMPANY, INC., New York, N. Y.
Filed January 26, 1920. Serial No. 127,568. PUBLISHED MAY 18, 1920.

134,870. VENTILATORS FOR EXTERIOR USE ON HOUSES AND BUILDINGS. ACME VENTILATOR CORPORATION, Lynn, Mass.
Filed September 11, 1918. Serial No. 113,114. PUBLISHED JUNE 1, 1920.

134,871. ELECTRIC BATTERIES. ACORN BATTERY COMPANY, Chicago, Ill.
Filed November 21, 1919. Serial No. 125,144. PUBLISHED JUNE 1, 1920.

134,872. CHILDREN'S VELOCIPEDES. THE ADJUSTABLE SALES CORPORATION, Rochester, N. Y.
Filed September 12, 1918. Serial No. 113,135. PUBLISHED JUNE 1, 1920.

134,873. AUTOMOBILES. THE MORRIS ADLER COMPANY, Quincy, Ill.
Filed December 12, 1919. Serial No. 125,869. PUBLISHED JUNE 1, 1920.

134,874. LINIMENT FOR TREATMENT OF RHEUMATISM, &c. AIDOL MEDICINE CO., New York, N. Y.
Filed November 28, 1919. Serial No. 125,359. PUBLISHED APRIL 27, 1920.

134,875. HOSIERY. ALEXANDER & IRWIN CO., Philadelphia, Pa., assignor to Alexander & Irwin Co. Incorporated, New York, N. Y., a Corporation of New York.
Filed January 10, 1920. Serial No. 127,001. PUBLISHED MAY 25, 1920.

134,876. WOOD, FIBER, AND CANVAS HAND-BUCKETS AND BINS. ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y.
Filed October 28, 1919. Serial No. 124,245. PUBLISHED JUNE 1, 1920.

134,877. HARD-RUBBER PIPE-BITS, HARD-RUBBER CIGAR-HOLDERS, AND HARD-RUBBER CIGARETTE-HOLDERS. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y.
Filed February 5, 1920. Serial No. 127,990. PUBLISHED JUNE 1, 1920.

134,878. COUGH-SYRUP PREPARATION. AMERICAN LABORATORIES INCORPORATED, Richmond, Va.
Filed January 7, 1920. Serial No. 126,893. PUBLISHED APRIL 27, 1920.

134,879. OIL USED IN THE TREATMENT OF WOOLEN FABRICS. THE AMERICAN OIL COMPANY, Providence, R. I.
Filed January 7, 1920. Serial No. 126,892. PUBLISHED MAY 25, 1920.

134,880. SOAP, SHAVING-STICKS, SHAVING-CREAM, SHAVING-POWDER. AMERICAN SAFETEE SOAP CORPORATION, (now by change of name Safetee Soap Corporation,) Brooklyn, N. Y.
Filed January 10, 1920. Serial No. 126,983. PUBLISHED JUNE 1, 1920.

134,881. TELEPHONES AND PARTS THEREOF. AMERICAN THERMOPHONE COMPANY, Boston, Mass.
Filed January 22, 1920. Serial No. 127,461. PUBLISHED MAY 25, 1920.

134,882. WRITING-PAPER AND MAILING-ENVELOPS. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed February 28, 1920. Serial No. 128,991. PUBLISHED MAY 18, 1920.

134,883. WRITING-PAPER AND PRINTING-PAPER. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed February 28, 1920. Serial No. 128,992. PUBLISHED MAY 18, 1920.

134,884. SALVE FOR EXTERNAL APPLICATION FOR THE TREATMENT OF ALL SKIN DISEASES, ECZEMA, ITCH, RINGWORM, AND CHILBLAINS. MARI ANDERSON, Creston, Wash.
Filed January 8, 1920. Serial No. 126,918. PUBLISHED APRIL 27, 1920.

134,885. HAIR-TONIC. ARTHUR ANTOINE, New York, N. Y.
Filed January 14, 1920. Serial No. 127,103. PUBLISHED APRIL 27, 1920.

134,886. SPARK-PLUGS. THE ARC-O'-MANUFACTURING CO., INC., Chicago, Ill.
Filed December 29, 1919. Serial No. 126,554. PUBLISHED MAY 25, 1920.

134,887. SPARK-PLUGS. THE ARC-O'-MANUFACTURING CO., INC., Chicago, Ill.
Filed January 26, 1920. Ser. No. 127,569. PUBLISHED MAY 25, 1920.

134,888. HAIR-TONIC AND DANDRUFF-PREVENTIVE. THE ATLANTA BARBERS' SUPPLY CO., Atlanta, Ga.
Filed January 14, 1918. Serial No. 108,444. PUBLISHED MARCH 16, 1920.

134,889. AUTOMOBILES — NAMELY, INDUSTRIAL TRACTORS AND TRUCKS. THE [redacted] R & L COMPANY, Cleveland, Ohio.
Filed June 13, 1919. Serial No. 119,544. PUBLISHED JUNE 1, 1920.

134,890. MEDICATED PLASTERS. BAUER & BLACK, Chicago, Ill.
Filed January 10, 1920. Serial No. 126,985. PUBLISHED MAY 4, 1920.

134,891. ANALGESIC AND ANTIPYRETIC. THE BAYER COMPANY, INC., New York, N. Y.
Filed May 10, 1918. Serial No. 110,799. PUBLISHED MAY 4, 1920.

134,892. ANALGESIC AND ANTIPYRETIC. THE BAYER COMPANY, INC., New York, N. Y.
Filed May 10, 1918. Serial No. 110,800. PUBLISHED MAY 4, 1920.

134,893. CATHARTIC MEDICINE. LEONARD E. BEACH, Baltimore, Md.
Filed December 18, 1919. Serial No. 126,206. PUBLISHED APRIL 27, 1920.

134,894. LAUNDRY BLUING IN CAPSULE FORM. BLUAL CHEMICAL CO., New York, N. Y.
Filed January 22, 1920. Serial No. 127,465. PUBLISHED MAY 11, 1920.

134,895. BLANK BOOKS, PADS, AND TABLETS. BOORUM & PEASE CO., New York, N. Y.
Filed January 9, 1920. Serial No. 126,953. PUBLISHED MAY 18, 1920.

134,896. WOMEN'S HATS. BERT B. BREWER, New York, N. Y.
Filed October 10, 1919. Serial No. 123,609. PUBLISHED JUNE 1, 1920.

Ser. No. 135,341. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) PAN AMERICAN SMELTING WORKS, INC., New York, N. Y. Filed July 23, 1920.



Particular description of goods.—White-Metal Alloys.
Claims use since Mar. 11, 1920.

Ser. No. 135,374. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LOGAN IRON AND STEEL COMPANY, Philadelphia, Pa. Filed July 24, 1920.

LISCO

Particular description of goods.—Bar-Iron.
Claims use since May 19, 1920.

Ser. No. 135,549. (CLASS 39. CLOTHING.) MARY ELIZABETH BAKER, Washington, D. C. Filed July 29, 1920.

Marie Louise

Particular description of goods.—Ladies' Hats and Bonnets.
Claims use since June 1, 1909.

Ser. No. 135,676. (CLASS 15. OILS AND GREASES.) ULTRA REFINED CRUDE PRODUCTS COMPANY, Chicago, Ill. Filed July 31, 1920.

Ker-ene

Particular description of goods.—Deodorized Kerosene.
Claims use since June 1, 1920.

Ser. No. 135,703. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FEDERAL TOOL & ALLOY STEEL CORPORATION, New York, N. Y. Filed Aug. 2, 1920.

NORTHLAND

Particular description of goods.—Iron and Steel.
Claims use since June 15, 1920.

Ser. No. 135,704. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FEDERAL TOOL & ALLOY STEEL CORPORATION, New York, N. Y. Filed Aug. 2, 1920.

ODIN

Particular description of goods.—Iron and Steel.
Claims use since June 15, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 21, 1920.

134,869. MEMORANDUM-PAPER HOLDERS. ACCOUNTING MACHINE COMPANY, INC., New York, N. Y.
Filed January 26, 1920. Serial No. 127,568. PUBLISHED MAY 18, 1920.

134,870. VENTILATORS FOR EXTERIOR USE ON HOUSES AND BUILDINGS. ACME VENTILATOR CORPORATION, Lynn, Mass.
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134,871. ELECTRIC BATTERIES. ACORN BATTERY COMPANY, Chicago, Ill.
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134,872. CHILDREN'S VELOCIPEDES. THE ADJUSTABLE SALES CORPORATION, Rochester, N. Y.
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134,873. AUTOMOBILES. THE MORRIS ADLER COMPANY, Quincy, Ill.
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134,874. LINIMENT FOR TREATMENT OF RHEUMATISM, &c. AIDOL MEDICINE CO., New York, N. Y.
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134,875. HOSIERY. ALEXANDER & IRWIN CO., Philadelphia, Pa., assignor to Alexander & Irwin Co. Incorporated, New York, N. Y., a Corporation of New York.
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134,876. WOOD, FIBER, AND CANVAS HAND-BUCKETS AND BINS. ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y.
Filed October 28, 1919. Serial No. 124,245. PUBLISHED JUNE 1, 1920.

134,877. HARD-RUBBER PIPE-BITS, HARD-RUBBER CIGAR-HOLDERS, AND HARD-RUBBER CIGARETTE-HOLDERS. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y.
Filed February 5, 1920. Serial No. 127,990. PUBLISHED JUNE 1, 1920.

134,878. COUGH-SYRUP PREPARATION. AMERICAN LABORATORIES INCORPORATED, Richmond, Va.
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134,879. OIL USED IN THE TREATMENT OF WOOLEN FABRICS. THE AMERICAN OIL COMPANY, Providence, R. I.
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134,880. SOAP, SHAVING-STICKS, SHAVING-CREAM, SHAVING-POWDER. AMERICAN SAFETEE SOAP CORPORATION, (now by change of name Safetee Soap Corporation,) Brooklyn, N. Y.
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134,881. TELEPHONES AND PARTS THEREOF. AMERICAN THERMOPHONE COMPANY, Boston, Mass.
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134,882. WRITING-PAPER AND MAILING-ENVELOPS. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed February 28, 1920. Serial No. 128,991. PUBLISHED MAY 18, 1920.

134,883. WRITING-PAPER AND PRINTING-PAPER. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
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134,884. SALVE FOR EXTERNAL APPLICATION FOR THE TREATMENT OF ALL SKIN DISEASES, ECZEMA, ITCH, RINGWORM, AND CHILBLAINS. MARI ANDERSON, Creston, Wash.
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134,885. HAIR-TONIC. ARTHUR ANTOINE, New York, N. Y.
Filed January 14, 1920. Serial No. 127,103. PUBLISHED APRIL 27, 1920.

134,886. SPARK-PLUGS. THE ARC-O'-MANUFACTURING CO., INC., Chicago, Ill.
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134,887. SPARK-PLUGS. THE ARC-O'-MANUFACTURING CO., INC., Chicago, Ill.
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134,888. HAIR-TONIC AND DANDRUFF-PREVENTIVE THE ATLANTA BARBERS' SUPPLY CO., Atlanta, Ga.
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134,889. AUTOMOBILES — NAMELY, INDUSTRIAL TRACTORS AND TRUCKS. THE BAKER R & L COMPANY, Cleveland, Ohio.
Filed June 13, 1919. Serial No. 119,544. PUBLISHED JUNE 1, 1920.

134,890. MEDICATED PLASTERS. BAUER & BLACK, Chicago, Ill.
Filed January 10, 1920. Serial No. 126,985. PUBLISHED MAY 4, 1920.

134,891. ANALGESIC AND ANTIPYRETIC. THE BAYER COMPANY, INC., New York, N. Y.
Filed May 10, 1918. Serial No. 110,799. PUBLISHED MAY 4, 1920.

134,892. ANALGESIC AND ANTIPYRETIC. THE BAYER COMPANY, INC., New York, N. Y.
Filed May 10, 1918. Serial No. 110,800. PUBLISHED MAY 4, 1920.

134,893. CATHARTIC MEDICINE. LEONARD E. BEACH, Baltimore, Md.
Filed December 18, 1919. Serial No. 126,206. PUBLISHED APRIL 27, 1920.

134,894. LAUNDRY BLUING IN CAPSULE FORM. BLUAL CHEMICAL CO., New York, N. Y.
Filed January 22, 1920. Serial No. 127,465. PUBLISHED MAY 11, 1920.

134,895. BLANK BOOKS, PADS, AND TABLETS. BOORUM & PEASE CO., New York, N. Y.
Filed January 9, 1920. Serial No. 126,953. PUBLISHED MAY 18, 1920.

134,896. WOMEN'S HATS. BERT B. BREWER, New York, N. Y.
Filed October 10, 1919. Serial No. 123,609. PUBLISHED JUNE 1, 1920.

134,897. POLISHES FOR CLEANING, PRESERVING, AND POLISHING LEATHER AND ENAMELED GOODS. E. BROWN & SON (BLACKING & BOOT POLISH MANUFACTURERS,) LIMITED, London, England.
Filed March 27, 1920. Serial No. 130,265. PUBLISHED JUNE 1, 1920.

134,898. METAL-POLISH. CHARLES E. CALBERATH, St. Louis, Mo.
Filed February 6, 1920. Serial No. 128,064. PUBLISHED MAY 25, 1920.

134,899. MEDICINAL TABLET FOR THE TREATMENT OF ANEMIA AND CHLOROSIS. G. W. CARNRICK CO., New York, N. Y.
Filed January 26, 1920. Serial No. 127,577. PUBLISHED MAY 11, 1920.

134,900. SANITARY NAPKINS. THE CELLUCOTTON PRODUCTS COMPANY, Neenah, Wis.
Filed January 15, 1920. Serial No. 127,169. PUBLISHED MAY 25, 1920.

134,901. MAILING-ENVELOPS, PAPETERIES, AND WRITING-TABLETS. THE CENTRAL OHIO PAPER CO., Columbus, Ohio.
Filed February 17, 1920. Serial No. 128,484. PUBLISHED MAY 18, 1920.

134,902. RECONSTRUCTION-TONIC. JOSEPH C. B. CHAREST, Detroit, Mich.
Filed December 18, 1919. Serial No. 126,207. PUBLISHED APRIL 27, 1920.

134,903. GENERAL TONIC FOR POULTRY. ALEXANDER W. CHAPPELL, Red Bank, N. J.
Filed December 13, 1919. Serial No. 125,942. PUBLISHED MAY 25, 1920.

134,904. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND OTHER TEXTILE FABRICS. CHATILLON, MOULY, ROUSSEL & CO., Lyon, France.
Filed January 23, 1920. Serial No. 127,499. PUBLISHED APRIL 27, 1920.

134,905. CERTAIN NAMED ABRASIVE, DETERGENT, AND POLISHING MATERIALS. CHELSEA ENGINEERING SALES CORPORATION, New York, N. Y.
Filed March 26, 1920. Serial No. 130,210. PUBLISHED JUNE 1, 1920.

134,906. CHEMICAL COMPOUNDS FOR WATERPROOFING TEXTILE FABRICS. THE CHEMICAL COMPANY OF AMERICA, INC., New York, N. Y.
Filed May 14, 1918. Serial No. 110,881. PUBLISHED MAY 25, 1920.

134,907. COTTON PIECE GOODS. CHINA, JAPAN & SOUTH AMERICA TRADING CO., LTD., New York, N. Y.
Filed September 12, 1919. Serial No. 122,587. PUBLISHED MARCH 16, 1920.

134,908. TOY VEHICLES. CLIFFORD C. CHURCH, Boston, Mass.
Filed January 27, 1920. Serial No. 127,633. PUBLISHED MAY 25, 1920.

134,909. WASHING-POWDER. CITRUS SOAP COMPANY, San Diego, Calif.
Filed February 18, 1920. Serial No. 128,542. PUBLISHED JUNE 1, 1920.

134,910. SOAP. H. CLARKE & SONS, INC., Baltimore, Md.
Filed August 27, 1919. Serial No. 122,040. PUBLISHED JUNE 1, 1920.

134,911. IGNITION AND ELECTRIC-LIGHTING SYSTEMS AND MAGNETOS FOR AUTOMOBILES AND REPAIR PARTS THEREFOR. THE CLEVELAND IGNITION COMPANY, Cleveland, Ohio.
Filed January 21, 1920. Serial No. 127,424. PUBLISHED JUNE 1, 1920.

134,912. AUTOMATIC CIRCUIT-CONTROLLERS. CLOX-LITE MFG. COMPANY, INC., Newark, N. J.
Filed April 16, 1920. Serial No. 131,209. PUBLISHED JUNE 22, 1920.

134,913. SANITARY GARBAGE-CANS. PHILIP COHEN, New York, N. Y.
Filed August 19, 1919. Serial No. 121,803. PUBLISHED MAY 25, 1920.

134,914. MEDICAMENT FOR THE TREATMENT OF MALIGNANT BLOOD DISEASES. THE COLLAPSULE COMPANY, INC., New York, N. Y.
Filed January 10, 1920. Serial No. 126,986. PUBLISHED MAY 25, 1920.

134,915. MEDICAMENT FOR THE TREATMENT OF MALIGNANT BLOOD DISEASES. THE COLLAPSULE COMPANY, INC., New York, N. Y.
Filed January 10, 1920. Serial No. 126,987. PUBLISHED MAY 25, 1920.

134,916. LUBRICATING OILS AND GREASES. COLUMBIA REFINING CO., New York, N. Y.
Filed February 20, 1920. Serial No. 126,661. PUBLISHED MAY 25, 1920.

134,917. COTTON AND SILK PIECE GOODS. COMMERCIAL SHIRT COMPANY, New York, N. Y.
Filed January 7, 1920. Serial No. 126,896. PUBLISHED JUNE 1, 1920.

134,918. PREPARED FLOOR-COVERINGS OF THE OILED-CLOTH TYPE. THE CONSOLEUM COMPANY, Philadelphia, Pa.
Filed January 6, 1919. Serial No. 115,005. PUBLISHED MARCH 25, 1919.

134,919. PIANOS. CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, Boston, Mass.
Filed December 26, 1919. Serial No. 126,457. PUBLISHED MAY 25, 1920.

134,920. PIANOS. CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, Boston, Mass.
Filed December 26, 1919. Serial No. 126,459. PUBLISHED MAY 25, 1920.

134,921. PIANOS. CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, Boston, Mass.
Filed December 26, 1919. Serial No. 126,461. PUBLISHED MAY 25, 1920.

134,922. PIANOS. CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, Boston, Mass.
Filed December 31, 1919. Serial No. 126,674. PUBLISHED MAY 25, 1920.

134,923. PIANOS. CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, Boston, Mass.
Filed December 31, 1919. Serial No. 126,675. PUBLISHED MAY 25, 1920.

134,924. HOSIERY. COOPER UNDERWEAR COMPANY, Kenosha, Wis.
Filed January 20, 1920. Serial No. 127,357. PUBLISHED JUNE 1, 1920.

134,925. OINTMENT FOR USE IN THE TREATMENT OF PILES. Mrs. J. C. CUNNINGHAM, East Liverpool, Ohio.
Filed January 8, 1920. Serial No. 126,923. PUBLISHED APRIL 27, 1920.

134,926. LIQUID FOR THE TREATMENT OF EYE TROUBLE. D. D. D. COMPANY, Chicago, Ill.
Filed June 21, 1919. Serial No. 119,825. PUBLISHED MAY 4, 1920.

134,927. ANESTHETIC TABLETS. DENTAL PRODUCTS COMPANY, Chicago, Ill.
Filed December 19, 1919. Serial No. 126,244. PUBLISHED APRIL 27, 1920.

134,928. RUBBER ERASERS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,617. PUBLISHED MAY 18, 1920.

134,929. RUBBER ERASERS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,619. PUBLISHED MAY 18, 1920.

134,930. SOIL-TILLING MACHINES—NAMELY, SOIL-PULVERIZERS AND CORRUGATED ROLLERS. THE DUNHAM COMPANY, Berea, Ohio.
Filed July 12, 1919. Serial No. 120,479. PUBLISHED JUNE 29, 1920.

134,931. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed April 5, 1920. Serial No. 130,655. PUBLISHED MAY 25, 1920.

134,932. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed April 5, 1920. Serial No. 130,657. PUBLISHED MAY 25, 1920.

134,933. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed April 5, 1920. Serial No. 130,659. PUBLISHED MAY 25, 1920.

134,934. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed April 5, 1920. Serial No. 130,660. PUBLISHED MAY 25, 1920.

134,935. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed April 5, 1920. Serial No. 130,661. PUBLISHED MAY 25, 1920.

134,936. AMMONIA, BLUING, BLEACHING PREPARATION, AND DISINFECTANT. ELBERFELD CHEMICAL & MFG. CO., Sandwich, Mass.
Filed April 19, 1919. Serial No. 117,616. PUBLISHED MAY 11, 1920.

134,937. WEARING-APPAREL—NAMELY, CHILDREN'S PLAY-SUITS. ELOESSER-HEYNEMANN CO., San Francisco, Calif.
Filed February 3, 1920. Serial No. 127,905. PUBLISHED MAY 25, 1920.

134,938. TOILET POWDER. GEORGE B. EVANS, Philadelphia, Pa.
Filed January 28, 1920. Serial No. 127,680. PUBLISHED MAY 25, 1920.

134,939. TOILET POWDER. GEORGE B. EVANS, Philadelphia, Pa.
Filed January 28, 1920. Serial No. 127,681. PUBLISHED MAY 25, 1920.

134,940. MEN'S, WOMEN'S, AND CHILDREN'S KNITTED UNDERWEAR, BOTH ONE AND TWO PIECE. EVERETT KNITTING WORKS, Lebanon, N. H.
Filed December 20, 1919. Serial No. 126,277. PUBLISHED JUNE 1, 1920.

134,941. CORNMEAL, BOLTED MEAL, BUCKWHEAT-FLOUR, WHEAT-FLOUR, PASTRY-FLOUR, AND GRAHAM FLOUR. EVERETT MILLING CORPORATION, Erie, Pa.
Filed October 2, 1919. Serial No. 123,344. PUBLISHED JUNE 8, 1920.

134,942. ELASTIC WEBS. FAIRE BROS. & CO. LIMITED, Leicester, England.
Filed April 21, 1919. Serial No. 117,657. PUBLISHED JUNE 1, 1920.

134,943. HAIR-INVIGORATOR. RAFFAELE A. FARESE, Newark, N. J.
Filed December 19, 1919. Serial No. 126,248. PUBLISHED APRIL 27, 1920.

134,944. HOSIERY FOR MEN, WOMEN, AND CHILDREN. P. FISHER, SON & CO., Philadelphia, Pa.
Filed December 15, 1919. Serial No. 126,018. PUBLISHED JUNE 1, 1920.

134,945. KNITTED UNDERWEAR. FORD MANUFACTURING CO., Waterford, N. Y.
Filed January 20, 1920. Serial No. 127,361. PUBLISHED JUNE 1, 1920.

134,946. WRITING AND PRINTING BOND-PAPER, LEDGER-PAPER, WRITING-PAPER, AND MAILING-ENVELOPS. FOREST PAPER COMPANY, INC., New York, N. Y.
Filed December 7, 1918. Serial No. 114,536. PUBLISHED MAY 18, 1920.

134,947. DENTIFRICE. THE FORSYTH DENTAL INFIRMARY FOR CHILDREN, Boston, Mass.
Filed November 17, 1919. Serial No. 124,983. PUBLISHED MAY 18, 1920.

134,948. FURNITURE—NAMELY, SPRING-SEATS. HYMAN FREEDMAN, Chicago, Ill.
Filed October 27, 1919. Serial No. 124,207. PUBLISHED MAY 18, 1920.

134,949. CANDY. FUERST & KRAEMER LIMITED, New Orleans, La.
Filed August 8, 1917. Serial No. 105,541. PUBLISHED SEPTEMBER 16, 1919.

134,950. HAIR-NETS. FULGHUM & COMPANY, Los Angeles, Calif.
Filed March 1, 1920. Serial No. 129,053. PUBLISHED MAY 25, 1920.

134,951. OINTMENT FOR USE IN THE TREATMENT OF PIMPLES, DANDRUFF, AND DRY SCALY ECZEMA. J. F. GALLAHER, Dayton, Ohio.
Filed November 22, 1919. Serial No. 125,178. PUBLISHED MAY 25, 1920.

134,952. HAIR-TONIC, HAIR-GLOSS, AND SHAMPOO PREPARATION. POLLY B. GARDEN, New York, N. Y.
Filed December 27, 1919. Serial No. 126,511. PUBLISHED MAY 11, 1920.

134,953. LAXATIVE CANDY. FRANK GARFINKEL, New York, N. Y.
Filed December 19, 1919. Serial No. 126,249. PUBLISHED APRIL 27, 1920.

134,954. MANUFACTURED RUBBER MERCHANDISE CONSISTING OF HOSE, BELTING, AND PACKING. THE GENERAL RUBBER GOODS COMPANY, Cleveland, Ohio.
Filed April 12, 1919. Serial No. 117,403. PUBLISHED MAY 4, 1920.

134,955. PHOTOGRAPH-MOUNTINGS. JOSEPH E. GIBSON, San Diego, Calif.
Filed February 5, 1920. Serial No. 128,063. PUBLISHED MAY 18, 1920.

134,956. WHEAT-FLOUR. GLADNEY MILLING COMPANY, Sherman, Tex.
Filed October 20, 1919. Serial No. 123,979. PUBLISHED JUNE 1, 1920.

134,957. TOOTHACHE REMEDIES. LOUIS H. GLOECKLER, New York, N. Y.
Filed January 15, 1920. Serial No. 127,178. PUBLISHED APRIL 27, 1920.

134,958. TEA. W. R. GRACE & CO., New York, N. Y., and San Francisco, Calif.
Filed December 24, 1919. Serial No. 126,413. PUBLISHED JUNE 1, 1920.

134,959. INSECTICIDES. GRAYLAWN FARMS COMPANY, Waterbury, Vt.
Filed January 9, 1920. Serial No. 126,960. PUBLISHED APRIL 27, 1920.

134,960. TOY HYDRO- AND AERO-PLANES. GREAT NORTHERN TOY CO. INC., New York, N. Y.
Filed January 16, 1920. Serial No. 127,212. PUBLISHED JUNE 1, 1920.

134,961. BOYS' SUITS, OVERCOATS, AND CAPS. IGNATZ GROSS, Los Angeles, Calif.
Filed June 6, 1918. Serial No. 111,391. PUBLISHED JUNE 8, 1920.

134,962. GLOVES OF LEATHER AND FABRIC. THOMAS H. HALL, Jersey City, N. J.
Filed February 20, 1920. Serial No. 128,680. PUBLISHED MAY 25, 1920.

134,963. AIL-TANKS. HAMMOND IRON WORKS, Warren, Pa.
Filed January 30, 1920. Serial No. 127,757. PUBLISHED JUNE 1, 1920.

134,964. POLISHING PREPARATION FOR AUTOMOBILES, CARRIAGES, COACHES, WOODWORK, FLOORS, FURNITURE, AND SIMILAR MATERIALS. HAWK-EYE MFG. COMPANY, Dallas, Tex.
Filed January 12, 1920. Serial No. 127,047. PUBLISHED JUNE 1, 1920.

134,965. MEDICATED CRUDE OIL FOR TREATING CUTANEOUS DISEASES OF ANIMALS. THE HAWKEYE OIL COMPANY, Waterloo, Iowa.
Filed August 8, 1919. Serial No. 121,391. PUBLISHED APRIL 27, 1920.

134,966. LIQUID SOAP. THE HEXTER-STEWART CORPORATION COMPANY, Cleveland, Ohio.
Filed September 28, 1918. Serial No. 113,468. PUBLISHED JUNE 1, 1920.

134,967. OVERALLS FOR CHILDREN. ERNEST A. HILL, San Francisco, Calif.
Filed February 10, 1919. Serial No. 115,730. PUBLISHED JUNE 1, 1920.

134,968. PILE-FABRIC PIECE GOODS. THE HIND & HARRISON PLUSH CO., New York and Clark Mills, N. Y.
Filed March 19, 1920. Serial No. 129,930. PUBLISHED MAY 25, 1920.

134,969. BLANK BOOKS IN WHICH SAVINGS-STAMPS WILL BE PASTED. WILLIAM M. HOERNER, Harrisburg, Pa.
Filed June 2, 1919. Serial No. 119,123. PUBLISHED MAY 18, 1920.

134,970. BASE-METAL ALLOYS. WILLIAM W. HOLLAND, Wood River, Ill.
Filed May 24, 1920. Serial No. 132,861. PUBLISHED JULY 6, 1920.

134,971. WAGONS. THE HOLT MANUFACTURING COMPANY, Stockton, Calif.
Filed April 30, 1919. Serial No. 118,011. PUBLISHED JUNE 1, 1920.

134,972. FISHING-LINES. THE HORTON MANUFACTURING CO., Bristol, Conn.
Filed February 18, 1920. Serial No. 128,550. PUBLISHED MAY 25, 1920.

134,973. GERMICIDE. HENRY M. HOWELL, New York, N. Y.
Filed January 3, 1920. Serial No. 126,769. PUBLISHED MAY 25, 1920.

134,974. PRINTING-INKS. JOSEPH M. HUBER, New York, N. Y.
Filed October 16, 1919. Serial No. 123,850. PUBLISHED JUNE 1, 1920.

134,975. TELEPHONE-INDEX BLANK. JAMES F. HUTCHISON, Rochester, N. Y.
Filed February 26, 1920. Serial No. 128,926. PUBLISHED MAY 18, 1920.

134,976. ELECTRICALLY-OPERATED FANS AND BLOWERS. ILG ELECTRIC VENTILATING COMPANY, New Orleans, La., and Chicago, Ill.
Filed November 7, 1919. Serial No. 124,650. PUBLISHED JUNE 8, 1920.

134,977. ELECTRICALLY-OPERATED HEATING AND VENTILATING UNITS. ILG ELECTRIC VENTILATING COMPANY, New Orleans, La., and Chicago, Ill.
Filed November 15, 1919. Serial No. 124,939. PUBLISHED JUNE 8, 1920.

134,978. CORK DISKS, WASHERS, AND GASKETS. INTERNATIONAL CORK COMPANY, Brooklyn, N. Y.
Filed December 16, 1919. Serial No. 126,125. PUBLISHED APRIL 27, 1920.

134,979. TABLE-SALT. INTERNATIONAL SALT CO. OF NEW YORK, New York, N. Y.
Filed November 1, 1919. Serial No. 124,441. PUBLISHED MAY 25, 1920.

134,980. LIGHT-WEIGHT FANCY WORSTED CLOTH IN THE PIECE. INTERNATIONAL WORSTED MILLS, Methuen, Mass.
Filed January 10, 1920. Serial No. 126,999. PUBLISHED MAY 25, 1920.

134,981. ELECTRIC BATTERIES AND PARTS THEREOF. IONITE STORAGE BATTERY COMPANY, Worcester, Mass.
Filed February 3, 1920. Serial No. 127,920. PUBLISHED MAY 25, 1920.

134,982. MEDICINE USED IN THE TREATMENT OF GALL-STONES AND GRAVEL. WILLIAM R. JEFFERY, Boston, Mass.
Filed January 16, 1920. Serial No. 127,216. PUBLISHED APRIL 27, 1920.

134,983. DYESTUFFS. JENNINGS & COMPANY, INC., Boston, Mass.
Filed January 19, 1920. Serial No. 127,288. PUBLISHED MAY 4, 1920.

134,984. LINIMENT FOR THE TREATMENT OF RHEUMATISM. JORDAN AND HAMBLE COMPOUNDING COMPANY, Houston, Tex.
Filed December 15, 1919. Serial No. 126,036. PUBLISHED MAY 18, 1920.

134,985. AUTOMOBILES. JORDAN MOTOR CAR CO., Cleveland, Ohio.
Filed March 31, 1919. Serial No. 117,051. PUBLISHED JUNE 1, 1920.

134,986. SMOKERS' PIPES, CIGAR AND CIGARETTE HOLDERS. KAUFMANN BROS. AND BONDY, New York, N. Y.
Filed December 26, 1919. Serial No. 126,473. PUBLISHED MAY 18, 1920.

134,987. FILTER-PAPER. HENRY KAYSER & FILS, INC., New York, N. Y.
Filed February 28, 1920. Serial No. 129,014. PUBLISHED MAY 11, 1920.

134,988. LEATHER-DRESSINGS. KEINER & POHL COMPANY, Milwaukee, Wis.
Filed April 5, 1920. Serial No. 130,708. PUBLISHED JUNE 1, 1920.

134,989. CHILL AND FEVER TONIC. CHARLES V. KNIGHT, Portsmouth, Va.
Filed December 17, 1919. Serial No. 126,185. PUBLISHED APRIL 27, 1920.

134,990. AUTOMOBILE-MIRRORS. JOHN J. KUNZEMAN, Brooklyn, N. Y.
Filed January 13, 1920. Serial No. 127,092. PUBLISHED JUNE 1, 1920.

134,991. PREPARATIONS FOR THE TREATMENT OF ECZEMA AND OTHER SKIN AND SCALP ERUPTIONS. EDWARD M. LAAKMAN, Farmington, Mo.
Filed January 16, 1920. Serial No. 127,218. PUBLISHED APRIL 27, 1920.

134,992. SOAP. LANGE SOAP CO., San Antonio, Tex.
Filed August 29, 1919. Serial No. 122,127. PUBLISHED JUNE 1, 1920.

134,993. SCALP-OINTMENT. LAURA J. LARIVER, Detroit, Mich.
Filed December 1, 1919. Serial No. 125,467. PUBLISHED APRIL 27, 1920.

134,994. NON-ALCOHOLIC BEVERAGE. LASH'S BITTERS CO., New York, N. Y.
Filed February 3, 1920. Serial No. 127,924. PUBLISHED JUNE 1, 1920.

134,995. WATCHES. LAUBHEIM BROS., New York, N. Y.
Filed December 16, 1919. Serial No. 126,131. PUBLISHED JUNE 1, 1920.

134,996. REMEDY FOR USE IN THE TREATMENT OF VENEREAL DISEASES. MAURICE LEPRINCE, Paris, France.
Filed November 29, 1919. Serial No. 125,426. PUBLISHED MAY 25, 1920.

134,997. MEN'S HALF-HOSE. THE LIBERTY HOSIERY COMPANY, Rock Hill, S. C.
Filed February 21, 1920. Serial No. 128,736. PUBLISHED MAY 25, 1920.

134,998. MEDICINAL PREPARATION OF HEXAMETHYLENAMIN. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed October 11, 1919. Serial No. 123,702. PUBLISHED MAY 25, 1920.

134,999. HEADACHE-TABLETS, PILLS, AND CAPSULES. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed January 3, 1920. Serial No. 126,766. PUBLISHED APRIL 27, 1920.

135,000. GENERAL TONIC. GEORGE L. LILLY, Jacksonville, Fla.
Filed January 8, 1920. Serial No. 126,937. PUBLISHED MAY 25, 1920.

135,001. PAPER OR PULP TOWELS. THE LILY CUP COMPANY, INCORPORATED, New York, N. Y.
Filed April 2, 1919. Serial No. 117,120. PUBLISHED MAY 18, 1920.

135,002. ORNAMENTAL ART ELECTRIC-LIGHTING FIXTURES. LINCOLN MANUFACTURING COMPANY, Detroit, Mich.
Filed January 26, 1920. Serial No. 127,596. PUBLISHED MAY 25, 1920.

135,003. DRY MEDICATED ASTHMA AND BRONCHIAL SHIELDS. BERTHA A. LUDLOW, Caldwell, N. J.
Filed January 8, 1920. Serial No. 126,938. PUBLISHED APRIL 27, 1920.

135,004. TEXTILE FABRICS—NAMELY, COTTON PIECE GOODS. ARTHUR I. LUDWIG, New York, N. Y.
Filed January 19, 1920. Serial No. 127,297. PUBLISHED JUNE 1, 1920.

135,005. WINES. JUAN DE BURGOS LUQUE, Aguilar de la Frontera, Spain.
Filed April 17, 1918. Serial No. 110,279. PUBLISHED FEBRUARY 3, 1920.

135,006. RUBBER OR RUBBER AND FABRIC TIRES AND TUBES FOR VEHICLES. MCCLAREN RUBBER COMPANY, Charlotte, N. C.
Filed December 29, 1919. Serial No. 126,586. PUBLISHED MAY 4, 1920.

135,007. CORSETS AND ABDOMINAL SUPPORTERS WORN AS REGULAR ARTICLES OF APPAREL. JANET C. MCNEAL, Washington, D. C.
Filed January 28, 1920. Serial No. 127,694. PUBLISHED MAY 25, 1920.

135,008. SOAP. M W M SOAP CO., San Jose, Calif.
Filed March 22, 1920. Serial No. 130,309. PUBLISHED JUNE 1, 1920.

135,009. GLASS DISHES. MACBETH-EVANS GLASS COMPANY, Pittsburgh, Pa.
Filed September 27, 1919. Serial No. 123,217. PUBLISHED MAY 11, 1920.

135,010. CHILDREN'S ONE-PIECE SLEEPING-SUITS. R. H. MACY & CO., INC., New York, N. Y.
Filed July 28, 1919. Serial No. 121,005. PUBLISHED JUNE 1, 1920.

135,011. REMEDY FOR WAR-WOUNDS, OLD SORES, BURNS, AND ABCESSES. ARDA NITA MARTIN, Baltimore, Md.
Filed January 6, 1920. Serial No. 126,868. PUBLISHED APRIL 27, 1920.

135,012. COMPOUND OF MEDICINES FOR THE TREATMENT OF LIVER, KIDNEY, AND STOMACH TROUBLES. MELTON MEDICINE COMPANY, INC., McBee, S. C.
Filed November 17, 1919. Serial No. 125,005. PUBLISHED MAY 25, 1920.

135,013. OLEOMARGARIN. MIDDLESEX COUNTY CREAMERY CO., Boston, Mass.
Filed February 14, 1918. Serial No. 108,996. PUBLISHED JUNE 1, 1920.

135,014. ELECTRIC-LIGHTING FIXTURES AND ELECTRIC LAMPS. EDWARD MILLER & CO., Meriden, Conn.
Filed January 22, 1920. Serial No. 127,457. PUBLISHED JUNE 1, 1920.

135,015. SOAP. THE MILLS BROTHERS COMPANY, Cincinnati, Ohio.
Filed December 17, 1919. Serial No. 126,187. PUBLISHED JUNE 1, 1920.

135,016. BRICK-CHEESE. HENRY R. MOLDENHAUER, Watertown, Wis.
Filed November 28, 1919. Serial No. 125,396. PUBLISHED JUNE 1, 1920.

135,017. WRAPPING-PAPER. MOORE & THOMPSON PAPER COMPANY, Bellows Falls, Vt.
Filed January 19, 1920. Serial No. 127,324. PUBLISHED MAY 11, 1920.

135,018. FINISHED PAPER-STOCK, BOOK-PAPER, NEWSPAPER, AND WRAPPING-PAPER. MOREY AND COMPANY INCORPORATED, Cambridge, Mass.
Filed October 29, 1919. Serial No. 124,310. PUBLISHED MAY 18, 1920.

135,019. BOOT-DRIVERS, BOOT-AWLS, MACHINERY-SPRINGS. MORRIS & YEOMANS, LIMITED, Redditch, England.
Filed March 25, 1919. Serial No. 116,889. PUBLISHED JUNE 1, 1920.

135,020. STENCILS, OIL-BOARD, WAX SEALS, AND RUBBER BANDS. HENRY MOSS & CO., INC., New York, N. Y.
Filed June 11, 1918. Serial No. 111,504. PUBLISHED MAY 11, 1920.

135,021. CERTAIN NAMED STATIONERY. TOYOZO NAKAYAMA, Osaka, Japan.
Filed September 2, 1919. Serial No. 122,224. PUBLISHED MAY 18, 1920.

135,022. PASTELIKE PREPARATION FOR SHAVING AND SKIN-HEALING PURPOSES. THE NAPCO CORPORATION, Indianapolis, Ind.
Filed March 13, 1920. Serial No. 129,641. PUBLISHED JUNE 1, 1920.

135,023. WRITING-PAPER AND ENVELOPS. NATIONAL PAPETERIE COMPANY, Springfield, Mass.
Filed March 21, 1918. Serial No. 109,699. PUBLISHED JUNE 1, 1920.

135,024. OARS, SWEEPS, AND SCULLS. NEW YORK BOAT OAR CO., INC., New York, N. Y.
Filed January 30, 1920. Serial No. 127,769. PUBLISHED MAY 4, 1920.

135,025. INCANDESCENT ELECTRIC LAMPS. NOVELTY INCANDESCENT LAMP COMPANY, Emporium, Pa.
Filed February 19, 1920. Serial No. 128,614. PUBLISHED MAY 11, 1920.

135,026. KNITTED CAPS, SWEATERS, GLOVES, AND MITTENS. NOVELTY KNITTING MILLS, Milwaukee, Wis.
Filed November 17, 1919. Serial No. 125,013. PUBLISHED MAY 25, 1920.

135,027. SOAPS. THE OMEGA CHEMICAL COMPANY, New York, N. Y.
Filed December 31, 1919. Serial No. 126,695. PUBLISHED JUNE 1, 1920.

135,028. SOAP AND SOAP CHIPS. PACIFIC COAST BORAX CO., New York, N. Y.
Filed March 16, 1920. Serial No. 129,795. PUBLISHED JUNE 1, 1920.

135,029. WOMEN'S KNIT NAPKINS. PALMYRA KNITTING COMPANY, Palmyra, N. J.
Filed December 16, 1919. Serial No. 126,130. PUBLISHED JUNE 1, 1920.

135,029. WATERPROOF FABRICS IN THE PIECE. THE PANTASOTE LEATHER COMPANY, Passaic, N. J.
Filed February 14, 1920. Serial No. 128,402. PUBLISHED MAY 4, 1920.

135,031. WATERPROOF FABRICS IN THE PIECE. THE PANTASOTE LEATHER COMPANY, Passaic, N. J.
Filed February 16, 1920. Serial No. 128,559. PUBLISHED MAY 4, 1920.

135,032. WRITING AND PRINTING PAPER AND WRITING-TABLETS. THE PAPER MILLS' COMPANY, Chicago, Ill.
Filed August 28, 1918. Serial No. 112,919. PUBLISHED MAY 18, 1920.

135,033. PARCEL-POST PACKAGES. PAR PO MFG. CO., Detroit, Mich.
Filed December 29, 1919. Serial No. 126,590. PUBLISHED MAY 4, 1920.

135,034. GINGHAMS AND COTTON PIECE GOODS. PARKHILL MFG. CO., Fitchburg, Mass.
Filed February 25, 1920. Serial No. 128,896. PUBLISHED MAY 25, 1920.

135,035. HAIR-NETS. PARTSTYLE NOVELTY CO. INC., New York, N. Y.
Filed January 23, 1920. Serial No. 127,519. PUBLISHED MAY 25, 1920.

135,036. WRITING, PRINTING, BLOTTING, AND WRAPPING PAPERS OF ALL GRADES. PARSONS & WHITTEMORE INC., New York, N. Y.
Filed December 24, 1919. Serial No. 126,422. PUBLISHED JUNE 1, 1920.

135,037. TOBACCO-POUCHES. PEARSON PRODUCTS CORPORATION, New York, N. Y.
Filed January 10, 1920. Serial No. 127,009. PUBLISHED MAY 25, 1920.

135,038. TOOTH-PASTE AND TOOTH-POWDER. A. S. PECK MANUFACTURING COMPANY, Minneapolis, Minn.
Filed December 19, 1919. Serial No. 126,258. PUBLISHED MAY 25, 1920.

135,039. YOUNG MEN'S THREE-PIECE SUITS. SAMUEL W. PECK & Co., New York, N. Y.
Filed March 10, 1920. Serial No. 129,513. PUBLISHED MAY 25, 1920.

135,040. CONCENTRATED INK, POWDERED INK, INK-STICKS, AND INK FOR WRITING PURPOSES. HENRY L. PEREZ, New York, N. Y.
Filed December 10, 1919. Serial No. 125,799. PUBLISHED JUNE 8, 1920.

135,041. CANDIES. ELI R. PERSHING, Washington, D. C.
Filed January 10, 1920. Serial No. 127,010. PUBLISHED JUNE 8, 1920.

135,042. AUTOMOBILE TIRES AND TUBES COMPOSED OF RUBBER AND RUBBER AND FABRIC. ROSCOE B. PIPER, Sioux City, Iowa.
Filed November 30, 1918. Serial No. 114,432. PUBLISHED JUNE 1, 1920.

135,043. TALKING-MACHINE NEEDLES. PLAZA MUSIC CO., New York, N. Y.
Filed February 9, 1920. Serial No. 128,166. PUBLISHED MAY 25, 1920.

135,044. MOTOR-DRIVEN ELECTRIC LIGHT AND POWER UNITS. PLIX LIGHT COMPANY, INC., New York, N. Y.
Filed February 12, 1920. Serial No. 128,320. PUBLISHED MAY 25, 1920.

135,045. FLUID INTENDED TO RELIEVE FALLING HAIR. SOLOMON PRAIGNAC, Brooklyn, N. Y.
Filed November 7, 1919. Serial No. 124,667. PUBLISHED MAY 25, 1920.

135,046. ATHLETIC UNION-SUITS. PREMIER MANUFACTURING CO., Lexington, Ky.
Filed February 20, 1920. Serial No. 128,698. PUBLISHED MAY 11, 1920.

135,047. SOAP. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed March 15, 1920. Serial No. 129,745. PUBLISHED JUNE 1, 1920.

135,048. WASHING-POWDER. FRANK O. QUINN, Omaha, Nebr.
Filed April 6, 1920. Serial No. 130,781. PUBLISHED JUNE 1, 1920.

135,049. UNDERVESTS, STORM-VESTS, AND PADDED AND QUILTED VESTS AND JACKETS. JACOB A. RAINFORD, Bergen Field, N. J.
Filed September 17, 1917. Serial No. 106,284. PUBLISHED JUNE 1, 1920.

135,050. GINGER-ALE, GINGER-BEER, SARSAPARILLA, AND CLUB-SODA. JOHN J. REARDON, Philadelphia, Pa.
Filed February 2, 1920. Serial No. 127,869. PUBLISHED JUNE 1, 1920.

135,051. ELECTRIC VACUUM-CLEANERS AND PARTS THEREOF. THE REMINA COMPANY, New York, N. Y.
Filed January 31, 1920. Serial No. 127,835. PUBLISHED MAY 25, 1920.

135,052. BRAKE-BAND LINING. REFLEX AUTO ACCESSORY CO., Auburn, Ind.
Filed December 16, 1919. Serial No. 126,141. PUBLISHED MAY 4, 1920.

135,053. TRACTORS. REIN DRIVE TRACTORS, LIMITED, Toronto, Ontario, Canada.
Filed March 23, 1918. Serial No. 100,755. PUBLISHED MAY 20, 1919.

135,054. METALLIC ROD-PACKING. RHODES METALLIC PACK. CO. INC., Shreveport, La.
Filed December 12, 1919. Serial No. 125,910. PUBLISHED APRIL 27, 1920.

135,055. COMPOUNDS USED FOR CLEANSING, POLISHING, AND BURNISHING THE SURFACES OF METAL AND GLASS. ARTHUR WELLS RICHARDS, West Hartford, Conn.
Filed February 17, 1920. Serial No. 128,521. PUBLISHED JUNE 1, 1920.

135,056. WORK-SHIRTS AND OVERALLS. ABRAHAM RIFKIN, Wilkes-Barre, Pa.
Filed February 20, 1920. Serial No. 128,699. PUBLISHED MAY 25, 1920.

135,057. TOY AIRPLANES. THE RITCHIE-WERTZ MANUFACTURING COMPANY, Dayton, Ohio.
Filed March 1, 1920. Serial No. 129,083. PUBLISHED MAY 25, 1920.

135,058. LADIES' HANDBAGS. RITTER BROS., New York, N. Y.
Filed January 14, 1920. Serial No. 127,151. PUBLISHED MAY 11, 1920.

135,059. VELVET, WOOL, AND CASHMERE PIECE GOODS. SOCIETE RODIER, Paris, France.
Filed April 2, 1920. Serial No. 130,552. PUBLISHED MAY 25, 1920.

135,060. WOOLEN AND COTTON PIECE GOODS. SOCIETE RODIER, Paris, France.
Filed April 2, 1920. Serial No. 130,553. PUBLISHED MAY 25, 1920.

135,061. VELVET, WOOL, AND CASHMERE PIECE GOODS. SOCIETE RODIER, Paris, France.
Filed April 2, 1920. Serial No. 130,554. PUBLISHED MAY 25, 1920.

135,062. POWDER-PUFF. LEON RUSSELL ROSS, New Haven, Conn.
Filed December 26, 1919. Serial No. 126,486. PUBLISHED JUNE 1, 1920.

135,063. MEMORANDUM-BOOKS. ROSENBLUM & KERN, New York, N. Y.
Filed April 12, 1918. Serial No. 110,148. PUBLISHED MAY 18, 1920.

135,064. COMBS IN SHELL, SHELL AND AMBER, GRAY AND AMBER, AND ALUMINUM. SAMSTAG & HILSEE BROS., New York, N. Y.
Filed January 3, 1920. Serial No. 126,779. PUBLISHED MAY 25, 1920.

135,065. MANUFACTURED MEDICINAL COMPOUND COMPRISING AN APERIENT WATER. SCHWEPPES, LIMITED, London, England.
Filed December 15, 1919. Serial No. 126,075. PUBLISHED MAY 25, 1920.

135,066. WATCHES AND WATCH-MOVEMENTS. ADOLPHE SCHWOB, INC., New York, N. Y.
Filed February 17, 1920. Serial No. 128,525. PUBLISHED MAY 25, 1920.

135,067. MEDICINAL PREPARATION FOR THE TREATMENT OF CHOLERA IN HOGS AND POULTRY. LUCINDA SCOTT, Wichita, Kans.
Filed January 24, 1919. Serial No. 115,412. PUBLISHED MAY 18, 1920.

135,068. BITTER-WINE TONIC FOR MEDICINAL PURPOSES. SCRANTON DISTRIBUTING AND MFG. CO., Scranton, Pa.
Filed March 10, 1920. Serial No. 129,514. PUBLISHED MAY 25, 1920.

135,069. MEDICAL COMPOUNDS FOR CUTS, BRUISES, BURNS, SORE THROAT, TONSILLITIS, COUGHS, COLDS, CATARRH, &c. JOHN M. SEARS, Fuquay Springs, N. C.
Filed February 9, 1920. Serial No. 128,155. PUBLISHED MAY 25, 1920.

135,070. WOMEN'S AND CHILDREN'S OUTER AND UNDER GARMENTS. SHAINBERG & EBER, Memphis, Tenn.
Filed November 7, 1919. Serial No. 124,669. PUBLISHED MAY 25, 1920.

135,071. FLASH-LIGHTS. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo.
Filed December 13, 1919. Serial No. 125,982. PUBLISHED MAY 25, 1920.

135,072. REMEDY FOR PILES. ALICE M. SHARKEY, Fond du Lac, Wis.
Filed January 7, 1920. Serial No. 126,909. PUBLISHED APRIL 27, 1920.

135,073. LEATHER-DRESSING FOR CLEANING AND POLISHING SHOES. MIKE SITA, Tacoma, Wash.
Filed March 24, 1919. Serial No. 116,853. PUBLISHED JUNE 1, 1920.

135,074. TENNIS-RACKETS. FRANK L. SLAZENGER, New York, N. Y.
Filed November 12, 1919. Serial No. 124,320. PUBLISHED MAY 25, 1920.

135,075. PHOTOGRAPHIC DEVELOPERS. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed January 7, 1920. Serial No. 126,911. PUBLISHED APRIL 27, 1920.

135,076. VEGETABLE COMPOUND IN THE FORM OF A TABLET USED AS AN AID TO THE BLOOD. BUREN H. SPALDING, Los Angeles, Calif.
Filed November 11, 1919. Serial No. 124,765. PUBLISHED MAY 25, 1920.

135,077. DRY, READY-MIXED, AND PASTE PAINTS AND ENAMEL PAINTS. STANDARD VARNISH WORKS, New York, N. Y.
Filed January 21, 1920. Serial No. 127,452. PUBLISHED MAY 25, 1920.

135,078. GLOVE-BINDING. THE STAR BINDING & TRIMMING CO., INC., New York, N. Y.
Filed October 30, 1919. Serial No. 124,362. PUBLISHED MAY 25, 1920.

135,079. STEARATE OF ZINC, AS EMPLOYED BY MANUFACTURERS OF TOILET PREPARATIONS. THE STEARYTE CO. INC., New York, N. Y.
Filed January 26, 1917. Serial No. 100,978. PUBLISHED MAY 18, 1920.

135,080. GRAPHITE, SOAPSTONE, AND MICA. ST. LOUIS RUBBER CEMENT CO., St. Louis, Mo.
Filed November 24, 1919. Serial No. 125,256. PUBLISHED JUNE 1, 1920.

135,081. CERTAIN PHARMACEUTICAL PREPARATION USED IN DRESSING OF THE HAIR AND CLEANSING THE SCALP. OSCAR P. STRAUHORN, St. Louis, Mo.
Filed September 29, 1919. Serial No. 123,263. PUBLISHED MAY 25, 1920.

135,082. CEREAL MALT BEVERAGE. SUFFOLK BREWING COMPANY, Boston, Mass.
Filed January 28, 1920. Serial No. 127,704. PUBLISHED JUNE 1, 1920.

135,083. CEREAL MALT BEVERAGE. SUFFOLK BREWING COMPANY, Boston, Mass
Filed January 30, 1920. Serial No. 127,786. PUBLISHED JUNE 1, 1920.

135,084. BLUING. SUNBEAM CHEMICAL COMPANY, Chicago, Ill.
Filed January 28, 1920. Serial No. 127,705. PUBLISHED MAY 25, 1920.

135,085. BLUING. SUNBEAM CHEMICAL COMPANY, Chicago, Ill.
Filed January 28, 1920. Serial No. 127,706. PUBLISHED MAY 25, 1920.

135,086. SHEET-GLASS. THE SUPER-GLASS CO., Philadelphia, and Wissinoming, Pa.
Filed February 20, 1919. Serial No. 116,043. PUBLISHED MAY 4, 1920.

135,087. TALKING-MACHINES AND PARTS THEREOF. SUPERTONE TALKING MACHINE CO., INC., New York, N. Y.
Filed February 9, 1920. Serial No. 128,175. PUBLISHED MAY 25, 1920.

135,088. WITCH-HAZEL, DISINFECTANT, INSECT-EXTERMINATORS, FORTIFIED AMMONIA. FRANK P. SYMONDS, Salem, Mass.
Filed December 3, 1919. Serial No. 125,549. PUBLISHED MAY 25, 1920.

135,089. BLOOD-PURIFIER IN THE FORM OF A LIQUID SOLUTION. THE T. D. S. Co., Pasadena, Calif.
Filed January 9, 1920. Serial No. 126,974. PUBLISHED MAY 25, 1920.

135,090. CLEANING AND POLISHING MATERIALS FOR JEWELRY AND METAL WARE. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,227. PUBLISHED MAY 25, 1920.

135,091. CANES, PARASOLS, AND UMBRELLAS. TIFFANY & COMPANY, New York, N. Y.
Filed February 10, 1920. Serial No. 128,256.

135,092. CANDIES. TIFFIN PRODUCTS INC., Long Island City, N. Y.
Filed November 7, 1919. Serial No. 124,673. PUBLISHED JUNE 1, 1920.

135,093. CARBON-PAPERS AND INKED RIBBONS. H. GEORGE TILLEMAN, New York, N. Y.
Filed February 4, 1920. Serial No. 127,983. PUBLISHED JUNE 1, 1920.

135,094. FIREWORKS. UNEXCELLED MANUFACTURING COMPANY, INC., New York, N. Y.
Filed August 23, 1919. Serial No. 121,952. PUBLISHED JUNE 1, 1920.

135,095. MINING-MACHINE LUBRICANT. THE UNITED STATES GRAPHITE COMPANY, Saginaw, Mich.
Filed March 19, 1919. Serial No. 116,730. PUBLISHED JUNE 1, 1920.

135,096. FIRE-EXTINGUISHING COMPOUNDS. U. S. FIRE EXTINGUISHER CO., Syracuse, N. Y.
Filed July 23, 1919. Serial No. 120,857. PUBLISHED MAY 25, 1920.

135,097. CHAMPAGNE CIDER. VALLE, BALLINA Y FERNANDEZ S. A., Villaviciosa, Spain.
Filed April 24, 1918. Serial No. 110,418. PUBLISHED JANUARY 27, 1920.

135,098. PAPER BAGS. VICTORY BAG & PAPER CO., Chicago, Ill.
Filed October 14, 1918. Serial No. 113,731. PUBLISHED JUNE 1, 1920.

135,099. PAPER BAGS. VICTORY BAG & PAPER CO., Marinette, Wis., and Chicago, Ill.
Filed May 19, 1919. Serial No. 118,718. PUBLISHED APRIL 27, 1920.

135,100. GENERAL MEDICINAL TONIC. MARY WAIS, Newark, N. J.
Filed December 13, 1919. Serial No. 125,991. PUBLISHED APRIL 27, 1920.

135,101. TOY ANIMALS. MABEL WATERMAN, New Rochelle, N. Y.
Filed March 25, 1920. Serial No. 130,186. PUBLISHED JUNE 1, 1920.

135,102. TOILET PREPARATIONS—VIZ., SKIN-CREAM. EDWIN D. WATKINS, Memphis, Tenn.
Filed December 18, 1919. Serial No. 126,238. PUBLISHED APRIL 27, 1920.

135,103. GENERAL MEDICINAL TONIC. E. M. WELCH, Cleveland, Ohio.
Filed January 9, 1920. Serial No. 126,980. PUBLISHED MAY 25, 1920.

135,104. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,973. PUBLISHED JUNE 1, 1920.

135,105. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,974. PUBLISHED JUNE 1, 1920.

135,106. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,977. PUBLISHED JUNE 1, 1920.

135,107. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,978. PUBLISHED JUNE 1, 1920.

135,108. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,979. PUBLISHED JUNE 1, 1920.

135,109. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,980. PUBLISHED JUNE 1, 1920.

135,110. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,981. PUBLISHED JUNE 1, 1920.

135,111. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,982. PUBLISHED JUNE 1, 1920.

135,112. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,983. PUBLISHED JUNE 1, 1920.

135,113. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,984. PUBLISHED JUNE 1, 1920.

135,114. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,985. PUBLISHED JUNE 1, 1920.

135,115. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,986. PUBLISHED JUNE 1, 1920.

135,116. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,987. PUBLISHED JUNE 1, 1920.

135,117. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,988. PUBLISHED JUNE 1, 1920.

135,118. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,989. PUBLISHED JUNE 1, 1920.

135,119. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,990. PUBLISHED JUNE 1, 1920.

135,120. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,991. PUBLISHED JUNE 1, 1920.

135,121. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,992. PUBLISHED JUNE 1, 1920.

135,122. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,993. PUBLISHED JUNE 1, 1920.

135,123. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,994. PUBLISHED JUNE 1, 1920.

135,124. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,995. PUBLISHED JUNE 1, 1920.

135,125. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,996. PUBLISHED JUNE 1, 1920.

135,126. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,997. PUBLISHED JUNE 1, 1920.

135,127. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,998. PUBLISHED JUNE 1, 1920.

135,128. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 110,999. PUBLISHED JUNE 1, 1920.

135,129. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,000. PUBLISHED JUNE 1, 1920.

135,130. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,001. PUBLISHED JUNE 1, 1920.

135,131. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,002. PUBLISHED JUNE 1, 1920.

135,132. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,003. PUBLISHED JUNE 1, 1920.

135,133. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,004. PUBLISHED JUNE 1, 1920.

135,134. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,005. PUBLISHED JUNE 1, 1920.

135,135. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,006. PUBLISHED JUNE 1, 1920.

135,136. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,007. PUBLISHED JUNE 1, 1920.

135,137. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,008. PUBLISHED JUNE 1, 1920.

135,138. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,009. PUBLISHED JUNE 1, 1920.

135,139. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,010. PUBLISHED JUNE 1, 1920.

135,140. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,011. PUBLISHED JUNE 1, 1920.

135,141. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,012. PUBLISHED JUNE 1, 1920.

135,142. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,013. PUBLISHED JUNE 1, 1920.

135,143. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,014. PUBLISHED JUNE 1, 1920.

135,144. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,015. PUBLISHED JUNE 1, 1920.

135,145. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,016. PUBLISHED JUNE 1, 1920.

135,146. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,017. PUBLISHED JUNE 1, 1920.

135,147. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,018. PUBLISHED JUNE 1, 1920.

135,148. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,019. PUBLISHED JUNE 1, 1920.

135,149. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,020. PUBLISHED JUNE 1, 1920.

135,150. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,021. PUBLISHED JUNE 1, 1920.

135,151. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,023. PUBLISHED JUNE 1, 1920.

135,152. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,024. PUBLISHED JUNE 1, 1920.

135,153. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,025. PUBLISHED JUNE 1, 1920.

135,154. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,026. PUBLISHED JUNE 1, 1920.

135,155. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,027. PUBLISHED JUNE 1, 1920

135,156. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,028. PUBLISHED JUNE 1, 1920.

135,157. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,029. PUBLISHED JUNE 1, 1920.

135,158. RICE. W. T. WELISCH & CO., INC., San Francisco, Calif.
Filed May 17, 1918. Serial No. 111,030. PUBLISHED JUNE 1, 1920.

135,159. SOAP FLAKES FOR LAUNDRYING PURPOSES. SAMUEL ISAAC WELSHER, New York, N. Y.
Filed November 29, 1919. Serial No. 125,447. PUBLISHED JUNE 1, 1920.

135,160. MEN'S COTTON HOSIERY, MEN'S MERCERIZED HOSIERY, MEN'S SILK HOSIERY. SAMUEL M. WERTHEIMER, New York, N. Y.
Filed December 3, 1918. Serial No. 114,475. PUBLISHED JULY 1, 1919.

135,161. PHONOGRAPHS AND PHONOGRAPH-CABINETS. THE WESTERN NEWS COMPANY, Chicago, Ill., assignor to Tel-O-Tone Phonograph Company, Chicago, Ill., a Corporation of Illinois.
Filed August 11, 1919. Serial No. 121,550. PUBLISHED JUNE 1, 1920.

135,162. DUMP-CARS, SPREADER-CARS, FLAT-CARS, AND DUMP-WAGONS. WESTERN WHEELED SCRAPER COMPANY, Aurora, Ill.
Filed March 1, 1920. Serial No. 129,112. PUBLISHED APRIL 20, 1920.

135,163. WRAPPING-PAPER. WHITAKER PAPER COMPANY, Cincinnati, Ohio,
Filed February 2, 1920. Serial No. 127,880. PUBLISHED MAY 18, 1920.

135,164. PRINTING-PAPER. THE WHITAKER PAPER COMPANY, Cincinnati, Ohio.
Filed February 3, 1920. Serial No. 127,950. PUBLISHED MAY 18, 1920.

135,165. CERTAIN NAMED PAPER AND STATIONERY. WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass.
Filed February 5, 1920. Serial No. 128,032. PUBLISHED MAY 18, 1920.

135,166. PHOTOGRAPHIC DEVELOPER. THE WILBUR WHITE CHEMICAL COMPANY, Owego, N. Y.
Filed November 21, 1919. Serial No. 125,167. PUBLISHED MAY 25, 1920.

135,167. FLOOR-COVERING IN THE NATURE OF LINOLEUM. THE CHARLES WILLIAM STORES, INC., Brooklyn, N. Y.
Filed December 16, 1919. Serial No. 126,162. PUBLISHED MAY 25, 1920.

135,168. AUTOMOBILE TIRES AND INNER TUBES OF RUBBER. CONNOR OLIVER WILLIAMS, Wichita, Kans.
Filed December 15, 1919. Serial No. 126,086. PUBLISHED MAY 11, 1920.

135,169. MEDICINE FOR THE TREATMENT OF TUBERCULOSIS, BRONCHITIS, AND ASTHMA. J. W. WOOD, Detroit, Mich., and Uniontown, Pa.
Filed November 20, 1919. Serial No. 125,138. PUBLISHED MAY 18, 1920.

135,170. CONFECTIONERY — NAMELY, CANDY KISSES. WILLIAM HERBERT WOODARD, Wilson, N. C.
Filed May 3, 1920. Serial No. 131,995. PUBLISHED JUNE 29, 1920.

135,171. ELECTRICALLY-OPERATED VACUUM-CREATING APPARATUS FOR PLAYER-PIANOS. H. W. YEAGER & Co. INC., Philadelphia, Pa.
Filed December 5, 1919. Serial No. 125,642. PUBLISHED MAY 25, 1920.

135,172. SCALP REMEDIES, A LIQUID PREPARATION USED IN TREATMENT OF THE HAIR. THEODORE J. YNTEMA, Scranton, Pa.
Filed September 12, 1918. Serial No. 113,153. PUBLISHED MAY 4, 1920.

135,173. SOAP FLAKES. CHAS. W. YOUNG & Co., Philadelphia, Pa.
Filed September 23, 1919. Serial No. 123,047. PUBLISHED JUNE 1, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920.]

SEPTEMBER 21, 1920.

135,174. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE BAKER R & L COMPANY, Cleveland, Ohio. Filed June 13, 1919. Serial No. 119,543.

Baker

Particular description of goods.—Automobiles—Namely, Electric Passenger-Vehicles and Trucks.
Claims use since 1898.

135,175. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLEVELAND TRACTOR COMPANY, Euclid, Ohio. Filed Nov. 8, 1918. Serial No. 114,091.

Cleveland

Particular description of goods.—Tractors and Parts Thereof.
Claims use since about Dec. 17, 1917.

135,176. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CHALMERS PUMP & MANUFACTURING COMPANY, Lima, Ohio. Filed May 24, 1920. Serial No. 132,848.

CANTON
HUGHES

Particular description of goods.—Steam Pumps, Steam Pumping Machinery, Jet-Condensers, and Surface Condensers.
Claims use since June 1, 1906.

135,177. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATE TRUFFLES CO., Portland, Oreg. Filed June 29, 1920. Serial No. 134,350.

Chocolate Truffles

Particular description of goods.—Chocolate Candy.
Claims use since about Jan. 15, 1910.

135,178. (CLASS 39. CLOTHING.) ECONOMY MANUFACTURING COMPANY, New York, N. Y. Filed July 14, 1920. Serial No. 134,948.

"Miss Economy's"

DOUBLE Wear

Particular description of goods.—Ladies' Dresses, Skirts, Coats, and Suits.
Claims use since Nov. 25, 1915.

135,179. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GEMMER MANUFACTURING COMPANY, Detroit, Mich. Filed Apr. 5, 1920. Serial No. 130,669.

GEMMER

Particular description of goods.—Steering-Gears for Motor-Vehicles.
Claims use since June 1, 1907.

135,180. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Feb. 11, 1920. Serial No. 128,267.

KANTKINK

Particular description of goods.—Hose Made Wholly or in Part of Rubber.
Claims use since Nov. 1, 1913.

135,181. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THEODORE GOTTMANN & SONS, Chicago, Ill. Filed July 14, 1920. Serial No. 134,950.

Surinam BRAND

Particular description of goods.—Chocolate Candy.
Claims use since April, 1909.

135,182. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRANCIS CONDIE HARDER, Plainfield, N. J. Filed July 22, 1920. Serial No. 135,281.

HOMESPUN

LINEN FINISH

Particular description of goods.—Cotton Piece Goods.
Claims use since Nov. 8, 1915.

135,183. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARSHALLTOWN SYRUP & SUGAR COMPANY, Marshalltown, Iowa. Filed July 16, 1920. Serial No. 135,057.

MOUSSE

Particular description of goods.—Toppings for Ice-Cream.
Claims use since Jan. 1, 1910.

135,184. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES OPPENHEIMER, Philadelphia, Pa. Filed Oct. 3, 1919. Serial No. 123,396.



The picture forming a feature of the mark is a copy of the portrait of Villette Stringer.
Particular description of goods.—Hair-Nets.
Claims use since on or about the 4th day of August, 1919.

135,185. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PENNSYLVANIA CHOCOLATE COMPANY, Pittsburgh, Pa. Filed July 19, 1920. Serial No. 135,170.

NUTBAR

Particular description of goods.—Chocolate and Candy.
Claims use since about October, 1911.

135,186. (CLASS 46. (FOODS AND INGREDIENTS OF FOODS.) PENNSYLVANIA CHOCOLATE COMPANY, Pittsburgh, Pa. Filed July 19, 1920. Serial No. 135,171.

FULL CREAM

Particular description of goods.—Chocolate Candy.
Claims use since about January, 1914.

135,187. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE TORRINGTON COMPANY, Torrington, Conn. Filed July 7, 1920. Serial No. 134,676.

Torrington

Particular description of goods.—Phonograph-Needles.
Claims use since Apr. 10, 1919.

135,188. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACE ROBERTS CANNING COMPANY, Woodstown, N. J. Filed July 16, 1920. Serial No. 135,074.

SALEM COUNTY

Particular description of goods.—Jellies, Fruit Jams, Table Preserves, Canned Fruits and Vegetables.
Claims use since 1917.

LABELS

REGISTERED SEPTEMBER 21, 1920.

22,141.—*Title:* "PRONTO." (For Glass Containers Containing a Fire-Extinguishing Fluid.) THE ALLEN CORPORATION, New York, N. Y. Filed January 20, 1920.

22,142.—*Title:* "ATLASETTE, 'THE GLOVE I LOVE,'" (For Gloves.) ATLASETTE GLOVES INC., New York, N. Y. Filed December 5, 1909.

22,143.—*Title:* "ASIAGO BASSO." (For Cheese.) THE BASSO Co., Chicago, Ill. Filed March 19, 1920.

22,144.—*Title:* "PROHIBITION GINGER." (For a Preparation or Compound for Cramps, Chills, &c. BENJAMIN F. BIGWOOD, Everett and Boston, Mass. Filed January 10, 1920.

22,145.—*Title:* "SALMOTINTO." (For Cantaloup-Seed.) H. VAN BUSKIRK SEED Co., Rocky Ford, Colo. Filed May 26, 1919.

22,146.—*Title:* "SNOW CRYSTALS." (For Instantaneous Water-Softener.) CALIFORNIA SODA PRODUCTS COMPANY, San Francisco, Calif. Filed January 20, 1920.

22,147.—*Title:* "SUCCULINE." (For General Tonic for Poultry.) ALEXANDER W. CHAPPELL, Red Bank, N. J. Filed January 19, 1920.

22,148.—*Title:* "HARMONY FORGET-ME-NOT SNAPS." (For Snap-Fasteners.) FEDERAL SNAP FASTENER CORPORATION, New York, N. Y. Filed March 1, 1920.

22,149.—*Title:* "GRAPETTE." (For Beverage.) DAVID N. GOLDBERG, Chicago, Ill. Filed January 20, 1920.

22,150.—*Title:* "GIFT CHOCOLATE FROM CALIFORNIA." (For Boxes Containing Chocolates.) PETER HALL, Pasadena, Calif. Filed September 29, 1919.

22,151.—*Title:* "PLAYER ACTION PAR EXCELLENCE." (For Actions for Player-Pianos.) R. S. HOWARD COMPANY, New York, N. Y. Filed October 31, 1919.

22,152.—*Title:* "JAX." (For Cereal Beverages.) JACKSON BREWING COMPANY, New Orleans, La. Filed November 24, 1919.

22,153.—*Title:* "PURPLE SEAL PLAYTHINGS." (For Educational Playthings—Namely, Picture-Builders.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,154.—*Title:* "PURPLE SEAL PLAYTHINGS." (For Phantom Blocks 71.) CHAS. F. LORENZEN & Co., Chicago, Ill. Filed December 20, 1919.

22,155.—*Title:* "ORIENTAL." (For Shampoo.) L. H. LEE, Elmhurst, Ill. Filed March 1, 1920.

22,156.—*Title:* "EUCO-MINT." (For Packages Containing Tooth-Paste.) PETER A. MANDABACH, Chicago, Ill. Filed October 24, 1919.

22,157.—*Title:* "HER CANDIED OPINION." (For Boxes Containing Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed February 4, 1920.

22,158.—*Title:* "SHELLEY'S CHOCOLATES." (For Boxes Containing Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed February 5, 1920.

22,159.—*Title:* "CHOCOLATES OF YORE." (For Boxes Containing Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed April 28, 1920.

22,160.—*Title:* "'GAVIOTA,' (SEA GULL)." (For Artificial Fertilizer.) THE PACIFIC GUANO & FERTILIZER Co., Honolulu, Territory of Hawaii. Filed January 20, 1920.

22,161.—*Title:* "PERMA-TITE VALVE GRINDING COMPOUND." (For Cans Containing a Valve-Grinding Compound.) PERMATITE MANUFACTURING COMPANY, INC., Minneapolis, Minn. Filed January 8, 1920.

22,162.—*Title:* "PERMA-TITE HOUSEHOLD PATCH." (For Packages Containing a Household Patch for Patching Rubber Goods.) PERMATITE MANUFACTURING COMPANY, INC., Minneapolis, Minn. Filed January 8, 1920.

22,163.—*Title:* "AMERICAN CLOTH." (For Cloth.) PETERS MANUFACTURING Co., Boston, Mass., and New York, N. Y. Filed July 18, 1919.

22,164.—*Title:* "PRICE'S NO ICE." (For Preservative Compound for Fish and Game.) PRICE COMPOUND COMPANY, Minneapolis, Minn. Filed September 4, 1919.

22,165.—*Title:* "MOTHER'S." (For Bread.) SANIWAX PAPER Co., Kalamazoo, Mich. Filed September 19, 1919.

22,166.—*Title:* "HOME MADE." (For Bread.) SANIWAX PAPER Co., Kalamazoo, Mich. Filed September 19, 1919.

22,167.—*Title:* "MILK MAID." (For Bread.) SANIWAX PAPER Co., Kalamazoo, Mich. Filed September 19, 1919.

22,168.—*Title:* "SHAW'S." (For Strawberry Jam.) THE SHAW FAMILY, INC., San Jose, Calif. Filed February 3, 1920.

22,169.—*Title:* "ALL IN ONE OINTMENT." (For Ointment.) SHEPHERD & CLEVELAND, Chicago, Ill. Filed October 15, 1919.

22,170.—*Title:* "ESSEX POISONED WHEAT." (For Poisoned Food for Rats, Mice, &c.) LOUIS L. STAEHLE, Newark, N. J. Filed February 28, 1920.

22,171.—*Title:* "SWEET-ODOR-HOME." (For Liquid Deodorant.) SWEET-ODOR-HOME COMPANY, San Francisco, Calif. Filed April 28, 1920.

22,172.—*Title:* "MAGIC HAIR CURLERS." (For Applied or Fastened Hair-Curlers.) AUGUSTUS A. WEST, Philadelphia, Pa. Filed December 30, 1919.

22,173.—*Title:* "MAGIC HAIR CURLERS." (For Applied or Fastened Hair-Curlers.) AUGUSTUS A. WEST, Philadelphia, Pa. Filed December 30, 1919.

PRINTS

REGISTERED SEPTEMBER 21, 1920.

5,352.—*Title:* "HANDY CANDY CLOVES." (For Candy—Namely, Cloves.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed June 4, 1919.

5,353.—*Title:* "HANDY CANDY LICORICE." (For Candy—Namely, Licorice.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed June 4, 1919.

5,354.—*Title:* "ECONOMY." (For Athletic Underwear.) THE B. V. D. COMPANY, New York, N. Y. Filed March 20, 1920.

5,355.—*Title:* "HAYS GLOVES." (For Leather Gloves.) THE DANIEL HAYS COMPANY, Gloversville, N. Y. Filed April 26, 1919.

5,356.—*Title:* "SHOT." (For A Non-Alcoholic Beverage.) JOSEPH A. FRANKLIN, Chicago, Ill. Filed June 25, 1919.

5,357.—*Title:* "THE DRINK WITH A TICKLE." (For a Non-Alcoholic Beverage.) JOSEPH A. FRANKLIN, Chicago, Ill. Filed June 25, 1919.

5,358.—*Title:* "OUIJA." (For a Talking-Board.) WILLIAM FULD, Baltimore, Md. Filed December 9, 1919.

5,359.—*Title:* "DELIGHT IN EVERY BITE." (For Apples.) MUTUAL SERVICE CORPORATION, New York, N. Y. Filed December 12, 1919.

5,360.—*Title:* "BIG YANK." (For Work-Shirts.) RELIANCE MANUFACTURING COMPANY, Chicago, Ill. Filed January 5, 1920.

5,361.—*Title:* "WHAT A GRIP YOU'VE GOT ON SMOKESPORT AT BOTH ENDS." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,362.—*Title:* "NO NEED PUTTING IN A CALL FOR THE OLD FAMILY YARD STICK." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed March 15, 1920.

5,363.—*Title:* "THE NEW IMPROVED DOUBLE FLOOR WHITAKER DENTURE VACUUM." (For a Vacuum-Denture.) GEORGE S. WHITAKER, Gloversville, N. Y. Filed March 1, 1920.

5,364.—*Title:* "MY MAMA." (For Phonographs.) WORLD PHONOGRAPH COMPANY, Chicago, Ill. Filed March 19, 1920.

5,365.—*Title:* "COME IN LET US SHOW YOU DETMER UNIVERSITY NOVELTIES LATEST SUITINGS." (For Detmer Woolens.) DETMER WOOLEN CO., New York, N. Y. Filed February 5, 1920.

REPORT
OF THE
COMMISSIONER OF PATENTS
TO THE
SECRETARY OF THE INTERIOR
FOR THE FISCAL YEAR ENDED JUNE 30, 1920.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 13, 1920.

SIR: I have the honor to submit herewith the following report of the business of the United States Patent Office for the fiscal year ended June 30, 1920:

Applications received during fiscal year ended June 30, 1920.

Applications for patents for inventions	81,948
Applications for patents for designs	4,110
Applications for reissues of patents	322
Applications for registration of trade-marks	14,710
Applications for registration of labels	1,280
Applications for registration of prints	570
Total applications	102,940
Disclaimers	24
Appeals on the merits	1,966
Notices of opposition	388
Total applications, disclaimers, appeals and notices of opposition	105,318

Applications for patents for inventions.

Year ended June 30—	
1911	65,365
1912	69,286
1913	67,986
1914	69,311
1915	66,497
1916	67,348
1917	68,660
1918	62,399
1919	62,755
1920	81,948

Applications for patents, including reissues and designs, and applications for the registration of trade-marks, labels, and prints.

Year ended June 30—	
1911	74,977
1912	79,747
1913	78,411
1914	81,539
1915	79,116
1916	80,021
1917	81,538
1918	73,307
1919	75,657
1920	102,940

Applications awaiting action.

June 30—	
1914	22,263
1915	18,270
1916	16,559
1917	16,058
1918	14,769
1919	17,735
1920	34,355

Patents withheld and patents expired.

	1919	1920
Letter Patent withheld for non-payment of final fees	8,354	7,235
Applications allowed awaiting payment of final fees	15,210	16,333
Patents expired	26,020	29,329
Applications in which issue of patents has been deferred under section 4885, Revised Statutes	848	171
Applications in process of issue	3,527	2,653

Patents granted and trade-marks, labels, and prints registered.

Class.	1916	1917	1918	1919	1920
Letters Patent	44,153	42,328	39,214	37,889	37,316
Design patents	1,761	1,696	1,146	1,235	2,302
Reissue patents	217	165	166	205	227
Trade-marks	6,169	6,126	4,944	3,788	6,984
Labels	833	781	516	572	682
Prints	402	342	192	205	158
Total	53,477	51,428	46,078	43,853	47,409

Receipts from all sources, fiscal year ended June 30, 1920.

Applications, first fees	$1,726,650.84
Designs	62,760.00
Reissues	9,635.00
Trade-marks	147,105.55
Final fees	738,362.90
Appeals and oppositions	35,325.00
Disclaimers	240.00
Coupons	101,536.66
Drawings	5,673.35
Recording assignments	32,423.30
Labels	7,604.80
Prints	3,624.90
Copies of records	344,329.83
Official Gazette and other publications through Government Printing Office, estimated	20,000.00
Total	2,615,697.33

Expenditures, fiscal year ended June 30, 1920.

Salaries	$1,421,129.68
Scientific library	2,405.63
Postage on foreign mail	1,107.00
Stationery	11,420.14
Furniture and sundries	10,168.93
Ice	269.85
Washing towels	137.90
Telephones	659.98
Telegraphing	21.17
Investigating public use	407.02
Photolithographing:	
Current issue	49,882.94
Reproductions	96,247.21
Foreign patents	1,969.92
Transportation of foreign exchange copies	690.55
Photographic printing	6,002.58
Photostat supplies	11,582.79
Dry mounts	6,643.00
Printing and binding:	
Official Gazette	131,421.95
Indexes	9,882.71
Specifications	408,690.60
Miscellaneous	29,185.60
International convention for protection of Industrial Property (estimated)	730.00
Coal	19,378.20
Fixed charges not enumerated	122.77
Total	2,222,128.21
Increase in compensation	214,433.16
Grand total	2,436,561.37

Receipts and expenditures.

Receipts from all sources	$2,615,697.33
Expenditures	2,436,561.37
Net surplus	179,135.96
Total net surplus to date	8,305,023.56

Comparative statement.

June 30—	Receipts.	Expenditures.	Surplus.
1911	$1,987,778.58	$1,937,001.83	$30,776.73
1912	2,004,059.50	2,019,236.01	74,823.49
1913	2,062,490.23	1,924,459.42	158,030.81
1914	2,169,988.95	1,929,132.52	240,856.43
1915	2,270,937.68	2,087,581.26	183,356.42
1916	2,334,030.48	2,051,656.79	282,373.69
1917	2,317,519.72	2,095,138.68	222,381.04
1918	2,103,660.56	2,131,616.18	−27,955.62
1919	2,113,350.17	2,178,578.30	−65,228.13
1920	2,615,697.33	2,436,561.37	179,135.96

Appellate work.

Interferences declared	1,443
Interferences disposed of before final hearing	939
Interferences heard	287
Interferences disposed of	303
Interferences awaiting decision	34
Oldest case awaiting action, April 2, 1920.	
Appeals to Examiners-in-Chief in interference cases	216
Ex parte appeals to Examiners-in-Chief	1,233
Total	1,481
Appeals in interference cases disposed of	208
Ex parte appeals disposed of	1,127
Total	1,335
Interference cases awaiting action	102
Ex parte cases awaiting action	536
Total	638
Oldest interference case awaiting action, December 4, 1919.	
Oldest *ex parte* case awaiting action, April 5, 1920.	
Appeals to Commissioner in interference cases	138
Appeals to Commissioner in opposition cases	13
Appeals to Commissioner in cancelations	4
Ex parte appeals to Commissioner	173
Interlocutory appeals to Commissioner	132
Ex parte appeals in trade-mark cases	79
Total	539
Petitions to Commissioner	3,240
Total	3,779
Cases disposed of by Commissioner:	
Appeals in interference cases	143
Appeals in opposition cases	14
Appeals in cancelation cases	0
Ex parte appeals	183
Interlocutory appeals	126
Ex parte appeals in trade-mark cases	63
Total	538
Petitions to Commissioner	3,295
Total	3,833
Appeals to Court of Appeals of the District of Columbia:	
Ex parte cases	17
Interference cases	69
Opposition cases	8
Cancelation cases	2
Total	96

During the year 86,380 applications for patents, including reissues and designs, and 147,739 amendments in pending cases were filed. The number of letters constituting the miscellaneous correspondence received and indexed was 304,646.

The number of printed copies of specifications of patents sold was 2,522,218, for which a revenue of $196,698.15 was received by the Office, this amount being an increase of $89,545.30 over the receipts of last year. A total of 999,862 copies of patents was shipped to foreign governments. The whole number of copies of patents furnished for sale, for governmental use, and for foreign governments was 3,896,297.

The Office received for record 40,188 deeds of assignment, containing on an average 466.77 words per deed. There were also recorded, without fees, for other departments, 4,592 deeds.

Typewritten copies of 29,865,100 words and photostatic copies of 19,201,400 words of records, aggregating 49,066,500 words were furnished at 10 cents per hundred words, for which the Office received $49,066.50, and for certifying to these copies $2,499.25 additional, making a total of $51,565.75. For 13,519 certified printed copies, etc., the Office received $11,236.20. For 122,367 photostatic copies of foreign patents, etc., the Office received $24,050.65, and for 75,324 photographic copies $11,862.30. For all of this class of work the Office received a total of $98,714.90. The Office furnished to other departments, without charge, 647 photostatic copies and made for its own use 86,835 copies; 10,708 photographic copies were made for its own use.

RÉSUMÉ.

Special attention is called to the unusual increase in the business of this Office in all its branches for the fiscal year just closed. The gains over the previous fiscal year in applications for mechanical patents, registration of trade-marks, and in total applications were, respectively, 19,193, 6,149, and 27,283 in numbers and thirty per cent., seventy-two per cent., and thirty-six per cent. in proportionate increases. The gain in actual numbers far exceeded any previous increase of business in any one fiscal year, and this gain is larger than the *total* receipts of any calendar year in the history of the Office up to and including the year 1881.

The gain in business in the number of printed copies of patents sold was twenty-two per cent., in deeds of assignment received for record thirty-four per cent., and in words furnished of copies of records seventy-nine per cent.

The receipts of money for copies of patents increased eighty-four per cent. It is to be noted that the increase of price of these copies from 5 cents to 10 cents required by the first Deficiency Appropriation Act of November 4, 1919, was effective for a little more than half the year. The gain in receipts of money, if increase of price had been effective the whole year, would have amounted to one hundred and forty per cent.

The total receipts of money increased twenty-four per cent., and the net deficit for the fiscal year 1919 of $65,228.13 was turned into a net surplus of $179,135.96, making a relative net increase of $244,364.09 for the year.

Respectfully submitted.

R. F. WHITEHEAD,
Commissioner of Patents.

The SECRETARY OF THE INTERIOR.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

HOENIG *v.* KENDIG.

Decided June 2, 1920.

PATENTS—INTERFERENCE—PRIORITY.

In an interference between H. and K. priority of invention awarded to H. on the ground that he was the first to conceive and was diligent up to the time of his reduction to practice.

Mr. E. Hume Talbert for the appellant.

Mr. J. C. Bradley for the appellee.

SMYTH, *C. J.*:

Hoenig appeals from a decision of the Patent Office awarding priority to Kendig. The invention relates to two-part insulators and means for holding the parts in assembled relationship. It is expressed in one count:

> In combination in an insulator, base and cap portions having perforations extending therethrough, and a metal fastening member comprising a shank extending through the perforations and provided at the end carrying the cap with an integral head which will not pass through the perforation in the cap and provided at the other end with a point, the said shank being provided with a struck-up portion positioned so as to engage the base and prevent the withdrawal of the fastening member therefrom.

The means consist of a nail passing through perforations in the cap and base portions, and a struck-up portion on the shank of the nail for engaging the base to prevent the withdrawal of the nail therefrom. This interference is a companion of the interference between Hoenig and Parker, this day decided, (*ante*, p. ——,) and was submitted on the same testimony. The Examiner of Interferences decided in favor of Kendig. The Board of Examiners reversed him and awarded priority to Hoenig. The First Assistant Commissioner overruled the Board and affirmed the action of the Examiner of Interferences.

Hoenig claims conception about the middle of November, 1914, and reduction to practice not later than January 1, 1915. Kendig's earliest date is February 20, 1915. In the companion case we held that Hoenig was entitled to conception and disclosure before the middle of December, 1914, and reduction to practice as early as January 1, 1915, and that he was diligent in the meantime. Our view of the testimony and the law in that case is controlling here. Consequently, the decision of the Patent Office is reversed, and priority awarded to Harry Edward Hoenig.

Reversed.

Mr. Justice VAN ORSDEL took no part in the consideration or decision of this case.

U. S. Circuit Court of Appeals—Second Circuit.

GEO. BORGFELDT & CO. *et al. v.* WEISS.

Decided March 19, 1920.

[*265 Fed. Rep., 268.*]

1. PATENTS—INFRINGEMENT OF DESIGN PATENT DEPENDS ON IMPRESSION PRODUCED ON PURCHASERS.

The question of infringement of a design patent for a doll is a question as to the impression produced on would-be purchasers.

2. SAME—DESIGN FOR DOLL VALID AND INFRINGED.

The Pfeffer design patent, No. 51,559, for a doll, *Held* valid and infringed.

3. SAME—TEST OF INFRINGEMENT OF DESIGN STATED.

Infringement of a design patent for a doll turns upon whether there is identity of appearance, whether the effect produced upon the eye is the same, and whether there is substantial identity of design, and the persons to be deceived are not experts, but ordinary observers, giving such attention to the matter as purchasers usually give.

4. SAME.—DESIGN PATENT ENTITLED TO EQUIVALENTS RESPECTING NON-ESSENTIAL DETAILS.

A design patent for a doll entitles the holder to the usual range of equivalents with respect to known prior unessential details, and though the patent drawings show a doll with a cap the figure shown is included within the claim of the patent, whether the doll is provided with painted hair, real hair, bathing-cap, or military or naval cap or any other standard form of head-dress.

APPEAL from the District Court of the United States for the Southern District of New York.

Suit by George Borgfeldt & Co. and another against Leo L. Weiss. From a decree dismissing the bill, complainants appeal. Reversed, with directions.

Mr. Hans v. Briesen (*Mr. Fred A. Klein* of counsel) for the appellants.

Messrs. Kornbluth & Pollack (*Mr. Herman C. Pollack* of counsel) for the appellee.

Before WARD, ROGERS, and HOUGH, Circuit Judges.

ROGERS, *Cir. J.*:

The suit is for the infringement of United States Design Patent No. 51,559, issued to Miss Genevieve

Pfeffer, San Jose, Calif., on December 11, 1917. The patentee states in her specification that she has invented a new, original, and ornamental design for dolls, of which—

the following is a specification, reference being had to the accompanying drawing.

There is no written description of the invention, and the claim is "the ornamental design for a doll as shown." Those drawings are reproduced herein:



Fig. 1.

The complainant gets its title from a contract with Miss Pfeffer, giving it the manufacturing rights, and reserving to herself a royalty.

The defendant has taken out no patent, but reproductions of the alleged infringing doll are here shown:



The plaintiff calls his doll "Splashme" and defendant names his "Duckme." The plaintiff's figurettes have met with remarkable success in the market; some 360,000 having been sold between April, 1918, when they were put on the market, and June, 1919, when the case was tried. The amount of the sales is said to be somewhere between $500,000 and $1,000,000.

(1) The dolls of the plaintiff and those of defendant differ from each other in certain details which are unessential. The defendant's doll is provided with painted hair, or imitation hair, where the doll of the patent shows hair covered by a cap. The defendant's doll omits the cap. The posture of the arms and legs has been slightly varied in the doll of the defendant, and the defendant's doll has painted slippers, where the plaintiff's doll has bare toes. The conclusion, however, is irresistible that defendant has copied plaintiff's design as a whole and sought to escape infringement by varying the ornamentation. In the opinion below the district judge, speaking of the two dolls, says:

At a glance one would, of course, see the patent plagiarism.

He also says that—

the only variation which the defendant has made, and which is at all observable, is to take off the bathing cap from the figure in the design. That would not be enough under ordinary circumstances, because a close-fitting cap is only distinguishable by some attention from an uncovered head.

He adds that when the cap is off—and it is removable from plaintiff's doll—the two figures are distinguishable beyond question. That is true, but in the stores, when the dolls are sold, they have their caps on; and the question is as to the impression produced on would-be purchasers.

In *Ashley* v. *Tatum* (186 Fed., 339; 108 C. C. A., 539) this court held that a patent for a design is not invalid because it does not contain a written description of the design, although its absence may have a bearing upon the construction of the patent, and therefore on the question of infringement. The Supreme Court in *Dobson* v. *Dornan* (118 U. S., 10; 6 Sup. Ct., 946; 30 L. Ed., 63) had already held that the specification for a design, which is accompanied by a photographic illustration and merely states that the nature of the design is fully represented in the illustration and claims the configuration of the design annexed, is a sufficient description and claim.

(2) This court is of the opinion that plaintiff's patent is valid. The plaintiff's design is clever and attractive; the controlling features being the eyes and the posture of a doll in bathing-costume. It is not invalidated by anything in the prior art. The exhibits produced by defendant at the trial only served to emphasize the uniqueness and individuality of the plaintiff's design.

(3) The plaintiff's patent being valid, there remains the question whether the defendant infringes. The question of infringement turns upon whether there is identity of appearance; whether the effect produced upon the eye is the same; whether there is substantial identity of design; and the persons to be deceived are not the experts, but the ordinary observers, giving such attention to the matter as purchasers usually give. That is the test laid down in *Gorham Co.* v. *White*, (14 Wall., 511; 20 L. Ed., 731,) a case which has never been overruled.

The court below has decided that there is no infringement, and in doing so appears to have misapprehended the decision of this court in *Ashley* v. *Tatum*. That case was decided in the lower court in 1910, and the opinion of the district judge is found in 181 Fed., 840. The patent in that case was a design patent for an inkwell. The district judge held the patent valid and infringed, declaring that the prior art presented nothing which in the least suggested it. The complainant's design contained no ornamentation. The defendant's design did contain ornamentation, and the court declared it was "no doubt distinguishable" from complainant's design, but he also found that it contained "every element of complainant's design." He said:

The defendant has taken over bodily every element of the complainant's design, and he has added just enough, and that, too, injuriously, to make a colorable claim to differentiation. * * * The complainant's design appears to me to have been imitated, and I therefore find that the defendant's wells are an infringement.

The case was brought to this court upon appeal, and the decision is found in 186 Fed., 339; 108 C. C. A., 539; the opinion being written by Judge Lacombe. This court reversed the court below, and held there was no infringement, although agreeing with the district judge that the two inkwells were plainly distinguishable.

The difference between the two is readily apparent to any one, expert or non-expert, * * *

said Judge Lacombe,

and there seems no likelihood that, whether looked at together or apart, the one could be mistaken for the other.

In *Ashley* v. *Tatum* there was no specification of any kind, and the patent consisted entirely of an illustration, and the article said to infringe was plainly distinguishable from the article which was said to be infringed. What was said in that case must be strictly confined to the class of cases to which it belongs. The case is plainly distinguishable from the case now before the court, as will presently appear. After this court decided *Ashley* v. *Tatum*, an attempt was made to get it before the Supreme Court by writ of certiorari; it being alleged that the Patent Office would allow no verbal description in design patents, and that over 30,000 of such patents were imperiled so far as their scope was concerned. The application, however, was denied. (225 U. S., 707; 32 Sup. Ct., 839; 56 L. Ed., 1266.)

In 1912 in *Graff, Washbourne & Dunn* v. *Webster* (195 Fed., 522; 115 C. C. A., 432) this court had before it a design patent for a dish. The question under consideration in the Tatum case was not discussed, and the case itself was not referred to. But Judge Coxe, speaking for the court, said:

Having seen the complainant's design in a show case or shop window, the ordinary buyer would be very likely to mistake the defendants' design for it, if seen in similar environment. This is the real test of infringement of design patents. If the ordinary buyer, having seen one of the complainant's dishes and wishing to procure one like it, would be induced to buy one of the defendants' dishes instead, it is enough. That he would be so deceived is plain, not only from the testimony that persons were actually deceived, but also from an examination of the dishes themselves. Their general appearance is so similar that a minute and careful inspection is required to distinguish the differences.

In 1914 in *Mygatt* v. *Schaffer* (218 Fed., 827; 134 C. C. A., 515) this court had before it a design patent for a prismatic glass reflector. In this case the Tatum case was not referred to. We held it not necessary that the alleged infringing article should be an exact copy of that of the patent to sustain a charge of infringement of design patent. There was nothing said in the opinion which has any bearing upon the question now under consideration.

In 1915 in *Ashley* v. *Weeks-Numan Co.* (220 Fed., 899; 136 C. C. A., 465) this court again had before it a design patent for an inkstand. But in this case there was a written specification, and we held that the patentee was not limited to the precise article shown in the drawing, but was entitled to the protection of the court against the making and marketing of inkstands which contained the dominant features of the design described in the specification.

(4) The court agrees with the statement of plaintiff's counsel that, so far as the claim of the design patent is concerned, the plaintiff is entitled to the usual range of equivalents with respect to known prior unessential details, so that the figure shown is clearly included within the claim of the patent, whether the doll is provided with painted hair, real hair, bathing-cap, military or naval cap, or any other standard form of head-dress, since all of these were well-known equivalents in the actual art to which this patent relates.

The decision in *Ashley* v. *Tatum* did not enunciate a rule of law applicable to all design patents, but a rule applicable to the type of case then before the court, in which, on the face of the exhibits, the article of the design patent and the article alleged to be infringed were so clearly distinguishable that no likelihood existed of one being mistaken for the other. That case differs from this, in that in this case the article of the design patent and the article alleged to be infringed so closely resemble each other that there is a likelihood of the one being mistaken for the other by the ordinary observer. Where this is the case, infringement is made out, and the rule laid down in *Ashley* v. *Tatum* does not apply.

The decree is reversed, with costs, and the court is directed to reinstate the bill and to grant the relief prayed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Mich.) The Wilson patent, No. 1,144,676, for a headlight with a shield positioned so as to obstruct those rays which would otherwise strike the lower part of the reflector, *Held* not infringed by defendant's headlight, in which the shield is in two parts, one of which obstructs a substantial portion of the direct forward rays from the bulb. *Wilson* v. *Quinn et al.*, 265 Fed. Rep., 14.

(U. S. D. C. W. Va.) The Handel patent, No. 979,664, for a holder for lamp-shades, *Held* void for lack of invention in view of the prior art. *Handel Co.* v. *Jefferson Glass Co. et al.*, 265 Fed. Rep., 286.

(U. S. C. C. A. Mich.) The Jaenichen design patent, No. 40,157, for a design for a scale-frame, *Held* not infringed. *Standard Computing Scale Co.* v. *Detroit Automatic Scale Co.*, 265 Fed. Rep., 281.

(U. S. C. C. A. Ill.) The Knudsen patent, No. 1,221,190, for radius-rods for automobiles, claims 1 and 2 *Held* not infringed and claims 3 and 4 void for lack of invention. *Walker Mfg. Co. et al.* v. *Illinois Brass Mfg. Co.*, 265 Fed. Rep., 279.

(U. S. C. C. A. N. Y.) The Pfeffer design patent, No. 51,559, for a doll, *Held* valid and infringed. *Geo. Borgfeldt & Co. et al.* v. *Weiss*, 265 Fed Rep., 268.

(U. S. C. C. A. Ill.) The Todd patent, No. 793,249, for printing apparatus designed to protect checks and drafts, *Held* not anticipated, valid, and infringed. *Hedman Mfg. Co. et al.* v. *Todd Protectograph* Co., 265 Fed. Rep., 273.

(U. S. D. C. N. Y.) The Barber patent, No. 781,802, for valves and valve-gear for explosive-engines, *Held* valid. *Barber* v. *Otis Motor Sales Co.*, 265 Fed. Rep., 675.

(U. S. C. C. A. Okla.) The Lubbers patents, Nos. 702,013, 702,014, 702,017, 822,678, 886,618, 914,588, and 1,020,920; the Thornburg patent, No. 759,329; the Chambers patent, No. 762 880; the Hitner patents, Nos. 821,361 and 822,452; the Schmerz patent, No. 890,306; the Frink patent, No. 988,454; the Bridge patent, No. 1,006,995, and the Maynard patent, No. 1,073,613, all relating to methods and machines for drawing glass, should each be viewed as a part of a completed whole and as marking the successive steps in improving and developing the basic invention of Lubbers, resulting in processes and apparatus which have revolutionized the old art of making window-glass and produced it commercially for the first time otherwise than by hand-blowing. So considered such patents were not anticipated, are valid, and are entitled to liberal construction as pioneer patents; also *Held* infringed. *Okmulgee Window Glass Co.* v. *Window Glass Mach. Co. et. al.*, 265 Fed. Rep., 626.

(U. S. D. C. N. Y.) The Goldman patent, No. 1,009,502, for a skylight with windows hinged at the bottom and slanting outward at a sufficient degree to cause the window to swing open automatically when released, *Held* not infringed by defendant's skylight, having windows set perpendicularly, with a bar or rod adapted to force the window open when the retaining rope or chain is released. *Superior Skylight Co., Inc.*, v. *August Kuhnla, Inc., et al.*, 265 Fed. Rep., 282.

Disclaimer.

1,283,224.—*Louis B. Larsen, Oscar J. Holmes,* and *Hans G. Larsen,* Chicago, Ill. MOTION-PICTURE MACHINE. Patent dated October 29, 1918. Disclaimer filed September 8, 1920, by the assignee, *Acme Motion Picture Projector Co.*

Enter this disclaimer—

"To that part of the claim in said specification which is in the following words, to wit:

"1. In a portable motion picture machine, the combination of a closed rectangular casing, a lamp house arranged in the upper rear portion of said casing and provided with upper and lower ventilating openings, a film feeding mechanism and associated optical system located in front of the lamp house and in the upper forward portion of the casing, a reel magazine located in the lower forward portion of said casing, and a motor located in the lower rear portion of said casing, and having operative connections with the film feeding mechanism and with the film reeling mechanism of the magazine aforesaid, substantially as set forth.

"2. In a portable motion picture machine, the combination of a closed rectangular casing, a lamp house arranged in the upper rear portion of said casing and provided with upper and lower ventilating openings, a film feeding mechanism and associated optical system located in front of the lamp house and in the upper forward portion of the casing, a reel magazine located in the lower forward portion of the casing, a motor located in the lower rear portion of the casing and having operative connections with the film feeding mechanism and with the film reeling mechanism of the magazine, and a fan or blower arranged beneath the lamp house and having operative connections with said motor, substantially as set forth.

"3. In a portable motion picture machine, the combination of a closed rectangular casing, a lamp house arranged in the upper rear portion of said casing and having a less width than said casing to provide spaces between the respective side walls of said casing and lamp house, the side walls of the casing having openings communicating with said side spaces, and a film feeding mechanism and associated optical system located in front of said lamp house, substantially as set forth.

"4. In a portable motion picture machine, the combination of a closed rectangular casing, a lamp house arranged in the upper rear portion of said casing and having a less width than said casing to provide spaces between the respective side walls of said casing and lamp house, the side walls of the casing having openings communicating with said side spaces, a motor arranged in the lower rear portion of the casing, and a fan or blower arranged beneath the lamp house and having operative connections with said motor, substantially as set forth.

"5. In a portable motion picture machine, the combination of a closed rectangular casing, a lamp house arranged in the upper rear portion of said casing and having a less width than said casing to provide spaces between the respective side walls of said casing and lamp house, the side walls of the casing having openings communicating with said side spaces, and a film feeding mechanism, the lamp house having upper and lower ventilating openings, substantially as set forth.

"6. In a portable motion picture machine, the combination of a closed rectangular casing, a lamp house arranged in the upper rear portion of said casing and having a less width than said casing to provide spaces between the respective side walls of said casing and lamp house, the side walls of the casing having openings communicating with said side spaces, a motor arranged in the lower rear portion of the casing, and a fan or blower arranged beneath the lamp house and having operative connections with said motor, the lamp house having upper and lower ventilating openings, substantially as set forth."

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 278—No. 4. TUESDAY, SEPTEMBER 28, 1920. Price—$5 per year.

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Issue of September 28, 1920.

Patents	645	No. 1,353,816 to No. 1,354,460, inclusive.
Trade-Marks	188	No. 135,189 to No. 135,376, inclusive.
Reissues	2	No. 14,951 to No. 14,952, inclusive.
Total	835	

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 13, 1920.

William A. Green, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Herbert B. Lederer Co., of 91 Fifth avenue, New York, N. Y., for registration of a trade-mark and trade-mark registered May 21, 1912, No. 86,586, to William A. Greer, of 315 Pennington avenue, Passaic, N. J., and a notice of such declaration sent by registered mail to said William A. Greer at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said William A. Greer, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 13, 1920.

Gillespie-Benedict Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Barrett Company, of 17 Battery Place, New York, N. Y., for registration of a trade-mark and trade-marks registered June 4, 1907, Nos. 62,955 and 62,956, respectively, to Gillespie-Benedict Company, of Old Colony Building, Chicago, Ill., and a notice of such declaration sent by registered mail to said Gillespie-Benedict Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Gillespie-Benedict Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 15, 1920.

Ben Strauss Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the China, Japan & South America Trading Co., Ltd., of 80 Maiden Lane, New York, N. Y., and the application of J. A. Migel, Inc., of 422 Fourth avenue, New York, N. Y., for registration of a trade-mark and trade-mark registered April 26, 1910, No. 77,614, to the Ben Strauss Company, 31 Union Square, New York, N. Y., and a notice of such declaration sent by registered mail to said Ben Strauss Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Ben Strauss Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 22, 1920.

Charles A. Robins, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Noah Hodge, 1620 Redwood street, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered August 20, 1901, No. 36,922, to Charles A. Robins, 707 North Sixth street, La Crosse, Wis., and a notice of such declaration sent by registered mail to said Charles A. Robins at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Charles A. Robins, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
First Assistant Commissioner.

Applicant's Address.

The requirement of Rule 33, that the post-office address of the applicant must be stated in the petition, means that the applicant must give the post-office address at which he customarily receives his mail.

The rule was made in order that the Office in necessary cases might correspond directly with the applicant and not through his attorney. The address of the attorney with instructions to send communications to the applicant in his care will not be accepted as a compliance with this rule.

APPLICATIONS UNDER EXAMINATION.

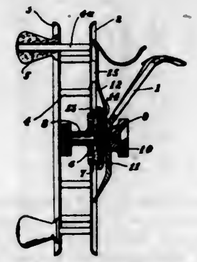
Condition at Close of Business September 18, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Apr. 10	Apr. 16	613
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Jan. 2	Feb. 27	1,089
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 17	Apr. 16	180
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Dec. 10	June 1	1,596
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Apr. 24	May 25	506
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Apr. 6	July 17	534
312	7. Games and Toys; Optics; Photography; Velocipedes	May 17	June 5	899
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	June 14	July 19	455
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Mar. 4	Apr. 26	612
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 24	June 17	1,096
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Apr. 12	Apr. 21	444
222	12. Machine Elements	Jan. 17	June 10	1,161
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling, Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Jan. 2	July 1	1,199
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 12	July 21	733
308	15. Bread, Pastry, and Confection Making; Coating; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 21	Jan. 21	1,302
111	16. Radiant Energy; Telegraphy; Telephony	Jan. 14	Mar. 9	914
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	June 19	July 10	216
220	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Feb. 13	Apr. 27	1,258
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Feb. 4	Mar. 22	629
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Sales; Undertaking.	June 1	June 4	810
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Jan. 15	June 22	518
249	22. Aeronautics; Firearms; Ordnance	June 25	June 29	315
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 29	July 10	743
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Mar. 3	June 26	575
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Aug. 2	July 30	216
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Jan. 31	Mar. 6	798
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	June 14	July 3	584
225	28. Internal-Combustion Engines	Feb. 16	June 3	819
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Mar. 10	June 9	579
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Mar. 2	Aug. 11	1,100
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Dec. 27	Feb. 19	1,394
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Jan. 10	June 21	1,168
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	May 3	June 26	452
304	34. Electricity-Transmission to Vehicles; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	July 30	Aug. 12	214
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Aug. 2	Aug. 20	351
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Apr. 12	Apr. 24	1,243
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Mar. 16	Mar. 26	1,323
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Apr. 21	May 3	869
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Nov. 15	Feb. 2	1,341
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 5	Mar. 25	1,171
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Feb. 27	June 12	885
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Mar. 5	Mar. 23	1,249
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Jan. 2	Mar. 27	1,097
353	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Apr. 26	July 26	346
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Mar. 24	Apr. 2	1,134
332	46. Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Feb. 10	Apr. 19	661
264	47. Brakes; Clutches; Fluid Pressure Brake and Analogous Systems	Jan. 8	Mar. 6	1,001
	Oldest new case, Nov. 15 oldest amended, Feb. 2. Total number of applications awaiting action			38,494
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Apr. 26	Aug. 10	2,738
	Designs	Mar. 17	Apr. 27	1,154
	Labels and Prints	May 15	Aug. 19	715

PATENTS

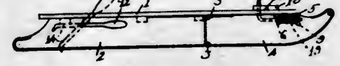
GRANTED SEPTEMBER 28, 1920.

1,353,816. FISHING-REEL. ADRIAN O. ABBOTT, Jr., Detroit, Mich. Filed Mar. 19, 1919. Serial No. 283,495. 7 Claims. (Cl. 242—84.5.)



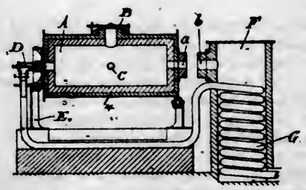
1. In a fishing reel, the combination of an offset bracket having a reel seat, a spindle mounted thereon, a reel mounted on the spindle, an annular friction disk mounted on the spindle and acting against one side of the reel, and a friction shoe actuated by a spring secured to the spindle on the same side of the reel.

1,353,817. SLED. THOMAS E. ASHBY and HOWARD E. ASHBY, Wayne, Mich. Filed Jan. 8, 1917, Serial No. 141,102. Renewed Feb. 16, 1920. Serial No. 359,203. 3 Claims. (Cl. 280—21.)



1. In a sled, a seat board, runners fixed thereto, a pair of movable runners pivoted to the forward end of the fixed runners, means for turning the movable runners consisting of a steering shaft having a bent end, a cross bar connecting the movable runners and pivoted to each runner, an eye pivoted to the cross bar at about the center thereof through which the said bent end extends, said bent end terminating in a threaded portion, a retaining nut thereon and a coiled spring under tension on said bent end between the eye and retaining nut tending to hold the movable runners in neutral position.

1,353,818. FURNACE. ALBERT MAURICE AUBERT, Billancourt, France. Filed Apr. 26, 1918. Serial No. 230,996. 3 Claims. (Cl. 263—28.)



1. A metallurgical tilting furnace having a gas port and an alined port, one of said ports rotatable relatively to the other and separated from each other by an open space sufficient for viewing the flame under all conditions of operation and surrounded by air, the gas current from one port to the other being sufficient to maintain the passage of gas without being diverted through said space.

1,353,819. CAST VEHICLE-WHEEL. WALTER S. ALLEN, Detroit, Mich., assignor to Detroit Steel Casting Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 23, 1919. Serial No. 292,184. 4 Claims. (Cl. 21—69.)



1. A cast vehicle wheel, comprising a hollow rim, a hub, radial spokes of solid section comparatively narrow in the plane of the wheel, wide in the plane of the axis and tapering from the central plane to the opposite sides extending between and formed integral with said hub and rim, a portion of the metal at the point of intersection at one end of the spoke being cut away to reduce the mass and avoid strains.

1,353,820. ROTARY SWITCH. THEOPHILE AMMANN, Berne, Switzerland. Filed Feb. 19, 1918. Serial No. 218,061. 3 Claims. (Cl. 200—155.)

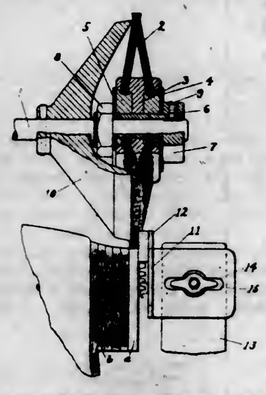


1. An electric rotary switch having a dead left-turn comprising a base-member, a body of insulating material rotatably located in said base member and having an annular portion provided with cam teeth, a contact ring bearing on said annular portion and having in its bearing face corresponding cam teeth, and fixed contact springs adapted to engage projections provided in the other face of said contact ring and hold it pressed against said annular portion.

1,353,821. HEEL-PLATE-SCOURING MACHINE. RICHARD WILLIAM CHARLES BASSETT and ARTHUR ERNEST JERRAM, Leicester, England, assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 21, 1916. Serial No. 85,612. 2 Claims. (Cl. 51—17.)

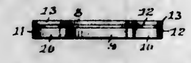
1. A machine for scouring the side surface of a heel adjacent to its tread along a uniform width of said sur-

face from one breast corner to the other, said machine having in combination, a rotary brush, a rotary guard of less diameter than the brush bearing against one side of it adjacent to its periphery, a rest for the heel tread, said



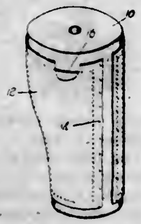
rest having a curved edge the radius of curvature of which is slightly greater than the radius of the brush, and means for adjusting said rest toward and from the plane of rotation of the guard to vary the width of the heel surface being scoured.

1,353,822. SETTING FOR JEWELRY. GEORGE WILLIAM DOVER, Cranston, R. I. Filed Oct. 7, 1919. Serial No. 329,019. 4 Claims. (Cl. 63—28.)



1. A cluster setting for articles of jewelry consisting of a central setting and a plurality of surrounding settings all formed integral of a single continuous wall, each of the settings forming a complete prongless setting, said single continuous wall being in the form of an upright prongless band with the seats in the edge of the band.

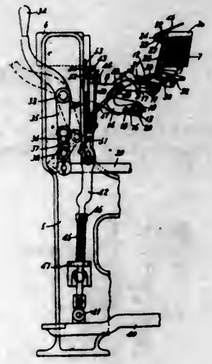
1,353,823. DEVICE FOR MAKING PUTTEES. JOSEPH FAUSSE, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 5, 1918. Serial No. 210,548. 5 Claims. (Cl. 69—8.)



1. A block for shaping an object of sheet material, said block having a pair of substantially parallel guides for a trimming tool and constructed to support fastenings for the edges of said sheet between said guides.

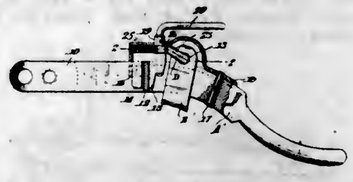
1,353,824. STOP MECHANISM FOR LOOMS. THOMAS F. FINN, North Andover, Mass. Filed May 29, 1920. Serial No. 385,330. 4 Claims. (Cl. 139—52.)

1. A stop motion for looms embodying therein a shipper handle adapted to control the power for the loom, a treadle rod adapted to control a brake, means to lock said treadle rod to hold said brake in a released position, a release rod adapted to engage said treadle rod, a tumbler operatively connected with said release rod and means



controlled by the filling thread adapted to rock said tumbler and thereby impart a rocking movement to said release rod, whereupon said treadle rod and shipper handle will be operated simultaneously to stop the loom.

1,353,825. SELF-LOCKING ATTACHMENT FOR RAILWAY-SWITCH HANDLES. CHARLES FORTH, Ottawa, Ontario, Canada, assignor to The Flexible Metal Hose Company, Limited, Ottawa, Ontario, Canada. Filed Mar. 6, 1917. Serial No. 152,750. 1 Claim. (Cl. 246—414.)

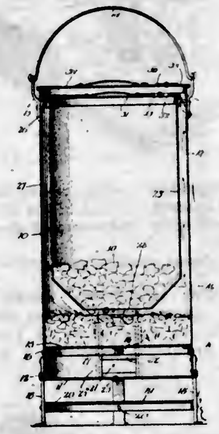


In a device of the class described, the combination with a switch handle and the tongue of a switch stand, of a casing secured to the switch handle and covering the end of the tongue, a bolt spindle pivotally mounted vertically within the casing and having an offset operating handle, said spindle having a squared portion, a laterally movable bolt engaging with the squared portion, of the spindle and operated thereby, and having an offset projection provided with beveled edges to facilitate automatic engagement with the said tongue, a projection on the bolt and spring means between the projection and the end of the casing for retaining the bolt normally in locked position.

1,353,826. STOVE. CHARLES C. FOSTER, Chicago, Ill. Filed Feb. 21, 1916. Serial No. 79,499. 1 Claim. (Cl. 126—73.)

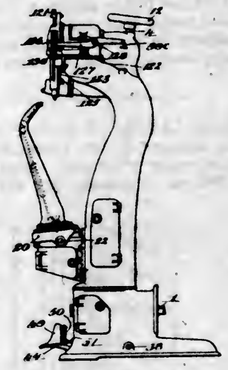
A portable stove of the character described embodying an outer casing having a closed bottom, brackets arranged within the casing near the top thereof, a fuel hopper, said hopper being of a diameter considerably smaller than the internal diameter of the casing and having an open and contracted bottom, a circumferential flange extending about the hopper at the top thereof, said flange being adapted to rest upon the said brackets to suspend the hopper within the casing, and said brackets also serving to hold the hopper spaced from the casing wall to form therewith a flue around the hopper, a grate disposed below and spaced from the hopper, said grate extending entirely

across the outer casing and flue, a closure for the outer casing, there being an opening in the outer casing below the grate, guides on opposite sides of the opening, a closure for the opening and movable in the guides, there being a draft opening through the first recited closure and with which opening the said flue has communication,



there being a draft opening with which the hopper has communication, a closure for each of the last said openings, supports for holding the bottom of the casing elevated above the bottom of the floor, and a shield secured to the supports and spaced below the bottom of the casing and above the floor.

1,353,827. SOLE-SEWING MACHINE. JOHN WILLIAM GODDARD and ARTHUR ERNEST JERRAM, Leicester, England, assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 21, 1917. Serial No. 150,190. 14 Claims. (Cl. 112—36.)



1. A sole sewing machine, having in combination, a straight barbed needle, a shoe supporting horn mounted to permit a lateral movement of the horn tip out of and into sewing position, and a looper located in the horn.

2. A sole sewing machine, having in combination, a straight barbed needle, a shoe supporting horn mounted to permit a lateral movement of the horn tip out of and into sewing position, a looper located in the horn, and mechanism for actuating the looper and maintaining its timed relation to the needle.

3. A sole sewing machine, having in combination, a straight barbed needle, a shoe supporting horn mounted to permit a lateral movement of the horn tip out of and into sewing position, a looper located in the horn, and means to prevent starting the machine into operation during the movement of the horn from one position to the other.

4. A sole sewing machine, having in combination, a straight barbed needle, a shoe supporting horn mounted to permit a lateral movement of the horn tip out of and into sewing position, a looper located in the horn, a lock for the horn, a presser foot, and a connection between the lock and the presser foot.

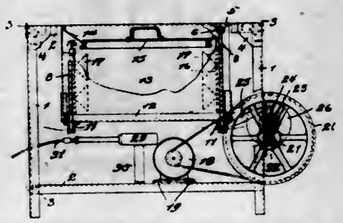
5. A sole sewing machine having in combination, a straight barbed needle, a rotatable shoe supporting horn, a looper located in the horn, and a base for the horn pivotally mounted to permit a lateral movement of the horn tip out of and into sewing position.

1,353,828. TIRE-CHAIN CONNECTION. STEWART GODDARD, Toronto, Ontario, Canada. Filed Feb. 10, 1920. Serial No. 357,759. 7 Claims. (Cl. 152—2.)



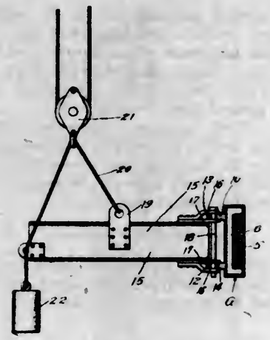
1. A hook for tire chains provided with two ears one adapted to fit against the side of a wheel rim and the other against the inner surface of the rim, the first ear having a hole for a screw formed therein and the other being provided with a cone-pointed spike threaded through the lug adapted to be driven into the rim, a head being formed on the screw adapted when turned to a suitable position to close the opening of the hook.

1,353,829. WASHING-MACHINE. SAMUEL S. GOLDMAN, St. Louis, Mo. Filed Apr. 29, 1919. Serial No. 293,393. 1 Claim. (Cl. 68—21.)



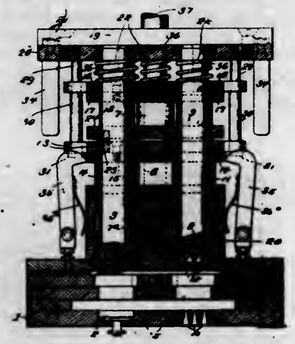
A washing machine, comprising a frame, a suds-box mounted to swing in said frame, inwardly projecting flanges at the top of said suds-box, vertically disposed partitions in said suds-box adjacent to and spaced from the ends thereof and having their lower edges located above the bottom of the suds-box and their upper edges spaced from and beneath the inwardly projecting flanges at the top of the suds-box, a series of pounders fixed to said partitions and projecting inwardly therefrom and communicating with the spaces between said partitions and the ends of the suds-box, and means for swinging said suds-box to surge the contents therein from end to end to cause the suds-water to forcibly move the clothes into engagement with said partitions and the pounders thereon, a portion of the suds-water passing under the partition and up through the passage between the partition and end of the suds-box to create a suction through said pounders.

1,353,830. OPEN-HEARTH FURNACE. JOHN O. GREGG, Youngstown, Ohio. Filed July 7, 1919. Serial No. 308,993. 11 Claims. (Cl. 263—46.)



1. In an open hearth furnace, having a back wall opening extending lengthwise thereof, and buck stays crossing said opening, a plurality of portable back wall sections adapted to be arranged, end to end, behind said buck stays to close said opening, each section comprising a rigid structure capable of being inserted in place and removed therefrom, and means for supporting said sections behind the buck stays, detachably connected with the sections.

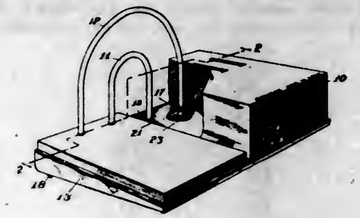
1,353,831. MACHINE FOR CUTTING OUT AND STAMPING OUT. LOUIS FERDINAND GROS, Paris, France. Filed Apr. 21, 1919. Serial No. 291,589. 3 Claims. (Cl. 113—49.)



1. In a machine of the class described, a plurality of punches, guiding means for the punches, common operating means for the punches, springs to impart reverse movement to the punches, means to limit the extent of the reverse movement of the punches, means to lock one of the punches at the end of its punching stroke, a spring to normally hold said locking means in unlocking position, and means movable with another punch to move said locking means to locking position.

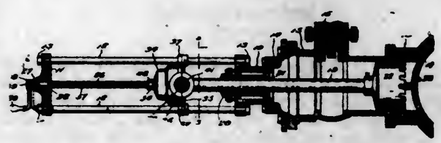
1,353,832. HOLDER FOR PAD-CALENDARS. FRANK A. HALE, Chicago, Ill., assignor to Hale Specialty Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 26, 1917. Serial No. 151,012. 2 Claims. (Cl. 40—119.)

1. A holder for pad calendars comprising, in combination, a base plate having a pair of apertures through the same, an elastically expansible arch fitting the apertures of the base plate when compressed, the ends of the arch being notched upon the inside only, means below the base plate limiting the movement of the arch through the apertures when the notches are exposed at the underside of



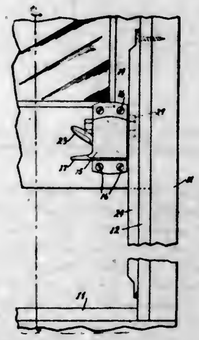
the plate and independent holding means removably engageable with the notched portions of the arch, the outer surface of the arch being uninterrupted throughout the length of the arch.

1,353,833. TAPPING-MACHINE. GEORGE S. HALEY, Dubuque, Iowa, assignor to H. Mueller Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Feb. 7, 1918. Serial No. 215,942. 3 Claims. (Cl. 77—38.)



1. In a drilling machine, a cutter shaft, a feed member having a longitudinal groove, means between said shaft and member for causing longitudinal movement of the shaft when relative rotary movement is imparted to the shaft or feed member, means for rotating said shaft, a gear carried by said shaft and having the same axis of rotation, a sleeve loosely mounted about said feed member, a pinion carried by said sleeve and having its axis of rotation at right angles to the sleeve, a non-rotatable gear with which said pinion is in mesh, a latch carried by said sleeve and adapted to engage in said groove, and means for maintaining said latch out of engagement with said groove.

1,353,834. SASH-LATCH. WILLIAM S. HAMM, Hubbard Woods, Ill., assignor to The Adams & Westlake Company, a Corporation of Illinois. Filed Sept. 16, 1919. Serial No. 324,162. 8 Claims. (Cl. 292—173.)



2. In combination, a window casing having a sash stop, a sash fitting within the casing and slidably engaging the stop, and a detent adapted to enter between the sash and

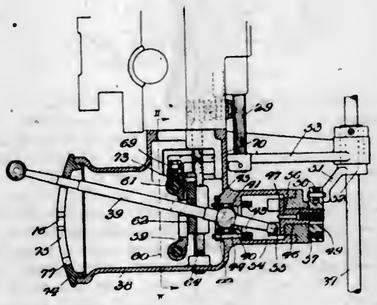
stop and to extend laterally into each, such detent having a lateral shoulder and the recess in the keeper being vertically wider than the portion of the bolt received by it and having a shoulder at its lower portion engageable back of the detent shoulder.

1,353,835. WIRE-STRETCHER. ANDREAS HANSEN, Cumberland Mills, Me. Filed Aug. 27, 1917. Serial No. 188,321. 1 Claim. (Cl. 254—162.)



In a wire stretcher, the combination with an anchor post, a rotary core, means adjustably connecting said rotary core to said anchor post, a hand lever having an offset portion associated with said core and terminating in an enlarged eye to receive the ends of the wire to be stretched, said hand lever being adapted to be rotated about said core, and having a bearing thereupon meanwhile adjacent the offset, whereby said wire is wound upon said core, a sleeve pivotally carried upon said hand lever, and a wire-engaging finger carried by said sleeve.

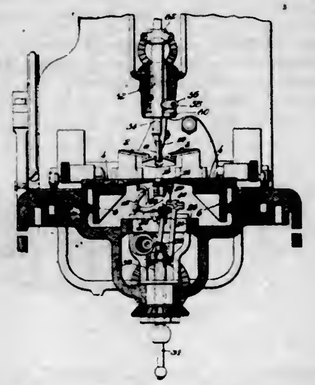
1,353,836. CONTROL MECHANISM. ERNEST C. HEAD, Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa., a Corporation of Pennsylvania. Filed Dec. 20, 1917. Serial No. 208,129. 48 Claims. (Cl. 77—32.)



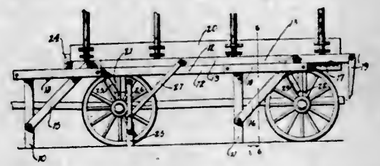
1. In combination, three or more clutches and a single control device for actuating said clutches, said control device having a neutral position in which it is operatively related to all of said clutches.

1,353,837. SEWING-MACHINE. GEORGE S. HILL, Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 28, 1916. Serial No. 117,243. 10 Claims. (Cl. 112—158.)

4. A sewing machine, having, in combination, an upper needle mechanism above the work, a reciprocating support below the work, a carrier mounted to move with and transversely of the support, a single looper on the support, and a coöperating loop spreader and an opposed looper on the carrier.

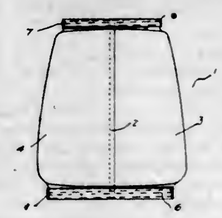


1,353,838. WAGON-BODY LIFTER. LEMUEL C. MCCRACKEN, Brush, Colo. Filed Apr. 24, 1918. Serial No. 230,508. 1 Claim. (Cl. 254—49.)



The herein described wagon body lifter comprising spaced posts, a pair of beams fixed across the upper ends of said posts in parallelism, stops outstanding from the beams at points a little forward of each post and a considerable distance rearward of the same, strips connecting said stops and with them forming guides, links pivoted to the posts and leading upward through said guides, and movable beams carried by the upper ends of said links and adapted to be dropped onto the fixed beams or raised above the same and held by contact of the links with said forward stops; combined with means on the movable beams for engagement by the wagon body to be lifted, a third link pivoted at one end to the midlength of each movable beam, and a control lever pivoted to the other end of this link, for the purpose set forth.

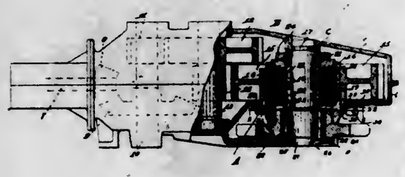
1,353,839. LANTERN-GLOBE. AARON MILBURN, Hall's Prairie, British Columbia, Canada. Filed Aug. 9, 1919. Serial No. 316,338. 1 Claim. (Cl. 240—96.)



A lantern globe comprising a pair of separably connected overlapping sections, the upper and lower ends of

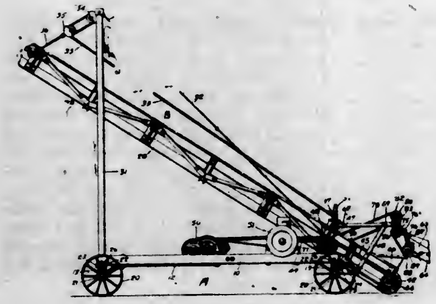
said globe being threaded, and threaded rings expansible under heat adapted for engagement with the threaded ends of the globe for a purpose specified.

1,353,840. PACKING. WILLIAM E. MOODY, Columbus, Ohio, assignor to James Ellwood Jones, Switchback, W. Va. Filed July 24, 1919. Serial No. 313,074. 4 Claims. (Cl. 286—9.)



1. In mechanism of the class described, the combination with a lubricant containing casing having an opening formed therein, of a rotatable member protruding through said opening, means for sealing the joint existing between the walls of said opening and said member, comprising a pair of beveled packing rings, an annulus securely carried by said casing and in which said rings are positioned, and a tension band surrounding said rings and serving to contract the latter inwardly about said member and in substantially perpendicular directions.

1,353,841. PORTABLE CONVEYER. LEONARD B. NEIGHBOUR, East Moline, Ill., assignor to Deere & Co., Moline, Ill., a Corporation of Illinois. Filed Oct. 23, 1918. Serial No. 259,360. 14 Claims. (Cl. 193—16.)



1. In an apparatus of the class described, the combination of a truck, an inclined conveyer mounted thereon, a hopper, a carrier in said hopper for conducting material to said conveyer, means for operating both said conveyer and carrier, wheeled supports at each end of said truck movable into positions opposite the ends of the truck for permitting lateral movement of the truck, and a rolling ground-engaging support connected with the hopper to permit the hopper to be moved laterally simultaneously with said truck and inclined conveyer without disturbing the connections of the said conveyer and carrier with their operating means, said hopper and support being relatively movable vertically to remove the weight of the hopper from the support.

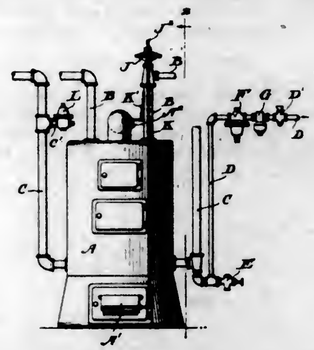
1,353,842. [WITHDRAWN.]

1,353,843. RAILROAD-SPIKE AND LOCK. GEORGE F. A. OCHS, Newark, N. J. Filed Jan. 29, 1920. Serial No. 354,841. 2 Claims. (Cl. 238—84.)



1. The combination with a composite tie having a top plate and a fibrous filler, of a spike for penetrating said plate and filler and having a lateral shoulder, and a spring-actuated dog housed in the tie beneath the said plate for engagement with the shoulder when the spike is in its operative position.

1,353,844. HOT-WATER HEATING SYSTEM. FRANK T. O'DELL, Minneapolis, Minn., assignor to H. Mueller Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Jan. 25, 1919. Serial No. 273,139. 2 Claims. (Cl. 237—56.)

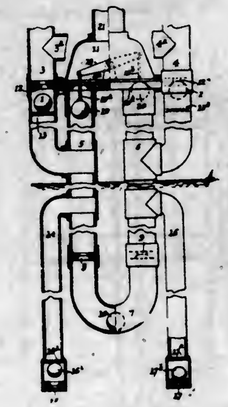


1. In a closed hot water heating system, the combination of a heater; water circulating pipes connected with the heater; a supply conduit adapted to receive water at the pressure prevailing in a city main and connected with the water circulating pipes; a relief valve connected with the water circulating pipes; a pressure controlled damper regulator connected with the water circulating pipes, and means within the supply conduit for insuring that the circulating pipes shall be completely filled with water under a definite, predetermined pressure, less than that of the city main, and any wastage through the relief valve automatically replenished to maintain such pressure.

1,353,845. PUMPING APPARATUS. THOMAS CLARENCE O'MARA, Dalgety, New South Wales, Australia. Filed Mar. 17, 1920. Serial No. 366,605. 2 Claims. (Cl. 103—8.)

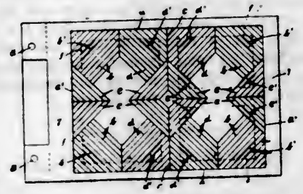
1. In a pumping apparatus, the combination of a water chamber having an outlet, a pair of barrels each communicating at one end with said chamber, said barrels being in communication with each other at their opposite

ends, each of said barrels having an inlet, means for supplying fluid under pressure to said barrels, valves for controlling the communication between the barrels and said



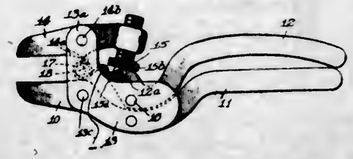
chamber, valves for controlling the inlet to said barrels, and a valve for controlling the communication between the barrels, all of said valves being adapted for operation alternately in opposite directions.

1,353,846. SELECTIVE MOUNT FOR CARDS OR PHOTOGRAPHS. HARRY L. OPSAHL, Minneapolis, Minn. Filed Apr. 26, 1920. Serial No. 376,559. 4 Claims. (Cl. 129—20.)



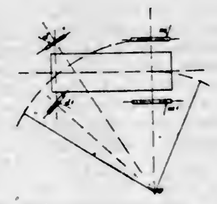
1. A selective mount for cards or pictures of different size, comprising a sheet having indicated thereon a cutting form composed of a rectangular outline and a plurality of uncut selective cutting lines running across the corners of said rectangle, thereby indicating the proper cuts, for securing retaining surfaces to embrace the corners of any desired size of card or picture, within the predetermined limits of variation, when the card or picture is laid on said form with its margins parallel with the margins of the form, substantially as described.

1,353,847. TOOL. BURTON H. PARKER, Detroit, Mich. Filed May 19, 1919. Serial No. 297,981. 9 Claims. (Cl. 81—78.)



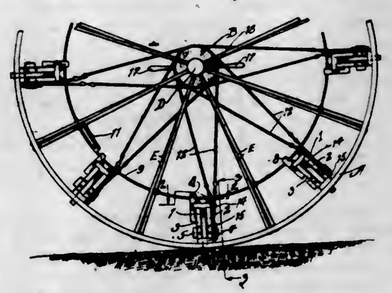
1. In a tool having opposing jaw members for engaging the work, a jaw element including a handle member, a pivoted handle member, a pivoted jaw independent of the pivoted member, and complemental means carried by the pivoted member and pivoted jaw and operative to produce a leverage action of the first order on the pivoted jaw by closing movement of the handle members, said means including a cam face carried by the pivoted handle member, and a headed threaded member carried by the pivoted jaw with the head opposing and of greater width than the width of the cam face, said head having a face adapted to coöperate with the cam face, whereby adjustment of the threaded member may be provided by the fingers of the hand gripping the handle members.

1,353,848. VEHICLE WITH TWO OR MORE PAIRS OF DRIVING-WHEELS. UGO PAVESI, Milan, Italy. Filed Dec. 27, 1918. Serial No. 268,502. 4 Claims. (Cl. 180—50.)



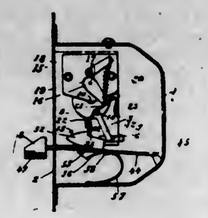
1. A self-propelled vehicle, comprising a pair of driving wheeled trucks, a driving engine rigidly secured to the axle of one of said trucks and to the motion-transmitting members for said axle, a motion transmitting gear rigidly secured to the axle of the other truck, an extensible rod adapted to transmit motion from one truck to the other, said rod being provided with universal joints, a beam pivotally connected to the axles of said trucks approximately at the longitudinal centers of the axles whereby the said axles may be rotated simultaneously through the same angle about the ends of the beam, and means for permitting the axle of one of the trucks to be swung vertically with relation to said beam thereby to bring said axle in a horizontal plane different from that of the other axle.

1,353,849. TRACTION-WHEEL CLEAT MECHANISM. CHARLES L. PENNELL, Barrs Mills, Ohio. Filed May 22, 1919. Serial No. 298,826. 5 Claims. (Cl. 301—46.)



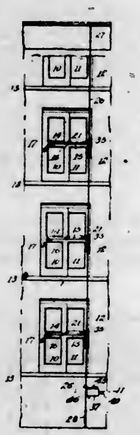
5. In a traction wheel, the combination of a rim, a hub and spokes connecting said rim and hub, drum mechanism on said hub comprising a drum, cleat devices on the rim comprising a series of cleats disposed at intervals from one another, cable connections attached at one end to the drum, a sprocket chain attached to the opposite end of said connections, a stub shaft for each cleat, a sprocket wheel on said stub shaft engaged by said sprocket chain, and locking mechanism for the cleats by which the drum is held against movement after adjustment of the cleats through connections such as above set forth.

1,353,850. ELECTRIC TIME-SWITCH. MARCUS HALL RHODES, Coleman, Ga. Filed Jan. 17, 1919. Serial No. 271,762. 11 Claims. (Cl. 200—34.)



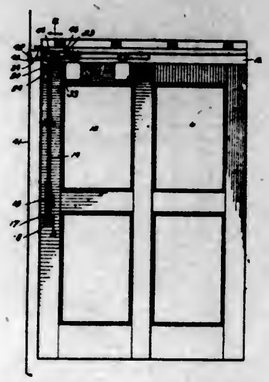
1. In an electric time switch, switch mechanism including an actuating element, a trip member for coaction with the said element, means influencing movement of the trip member in a direction to trip the actuating element to open the switch, a detent for restraining the trip member from such movement, and means for retarding such movement of the trip member.

1,353,851. SAFETY MECHANISM FOR ELEVATOR-SHAFT DOORS. ALBERT J. ROSENTRETER, Boonton, N. J., assignor to Edgar Zabriskie, Maplewood, N. J., and Frank E. Hutchins, New York, N. Y. Filed Mar. 30, 1917. Serial No. 158,535. 2 Claims. (Cl. 187—31.)



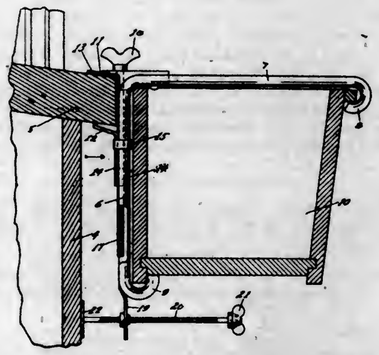
1. In elevator-shaft and elevator-shaft sliding-door mechanisms, in combination, a vertical connection extending the height of the shaft tensioning springs secured at the upper and lower ends of the shaft and to which the opposite ends of said connection are secured and which render said connection movable vertically on the stretching of one spring and the contraction of the other, a cut-out switch for cutting off the car motive power operable from said connection, shoulders on said connection at the several floors of the building, vertically movable plates on the door-frame at said floors disposed to engage said shoulders and move said connection, and manually operable door opening levers connected with the doors and having a crank connection with said plates and adapted on the opening of the doors to move said plates against the shoulders on said connection and move said connection lengthwise to break the circuit at said switch.

1,353,852. SAFETY MECHANISM FOR ELEVATOR-SHAFT DOORS. ALBERT J. ROSENTRETER, Boonton, N. J., assignor to Edgar Zabriskie, Maplewood, N. J., and Frank E. Hutchins, New York, N. Y. Filed Dec. 17, 1919. Serial No. 345,556. 8 Claims. (Cl. 187—48.)



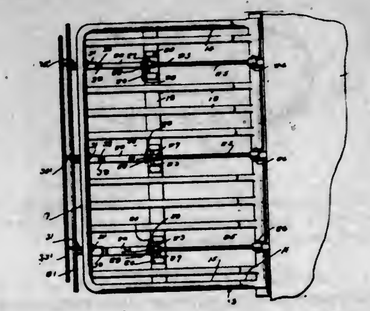
1. In elevator-shaft and elevator-shaft door mechanisms, in combination, a vertical connection extending the height of the shaft and adapted to have limited vertical movement, a cut out switch for cutting off the car motive power operable from said connection, shoulders on said connection at the several floors of the building, levers on the door framing at said floors having one arm disposed to engage the respective shoulders on and move said connection, a manually operative door-latch on each door, shoulders on the door framing to engage the latches when the doors are closed, and means carried by the latches for engaging said levers respectively on the opening of a door to actuate the same against said shoulders on said connection respectively for moving said connection lengthwise to break the circuit at said switch.

1,353,853. BRACKET. AUGUST P. SANDBERG, Minneapolis, Minn. Filed Apr. 16, 1920. Serial No. 374,487. 2 Claims. (Cl. 248—19.)



1. A device of the class described consisting of a bracket having means for supporting a box, a clamp at the upper end of the bracket, means for adjusting the lower end of the bracket relative to the vertical position of the upper end.

1,353,854. CAR-FENDER. JOHN WILLOUGHBY SAUERBAEI, Kenora, Ontario, Canada. Filed Oct. 10, 1919. Serial No. 329,803. 4 Claims. (Cl. 293—5.)



1. The combination with a pivotally supported fender, of a bumper element arranged forwardly of the fender and having a plurality of rearwardly extending arms slidable with relation to the fender, fender supporting means connected to said arms and a releasing device pivotally carried by the fender and extending forwardly of said bumper element and adapted to permit said arms to move rearwardly with relation to the fender.

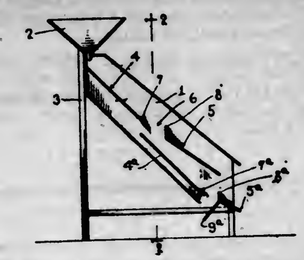
1,353,855. STEAM-CONDENSER APPARATUS. ARTHUR EDWIN LEIGH SCANES, Ashton-on-Mersey, England, assignor to The British Westinghouse Electric & Manufacturing Company, Limited, London, England. Filed Nov. 1, 1915. Serial No. 59,015. 2 Claims. (Cl. 257—43.)



1. In combination with the main cooling chamber of a condenser having a steam inlet and condensate outlet, an additional cooling chamber in restricted communication with the main chamber and having a relatively unrestricted outlet for connection with an air extracting device whereby during the operation of said air extracting device a less pressure will be maintained in the additional than in the main chamber, cooling means in said additional chamber and sealed means for delivering condensate from the additional chamber to the condensate outlet of the main chamber.

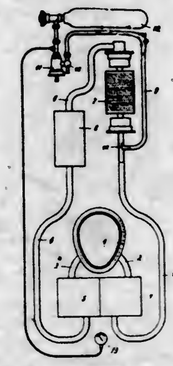
1,353,856. GRAVITY GRAIN-SEPARATOR. ANNA J. SCHLUNKE, Fargo, N. D. Filed Aug. 2, 1919. Serial No. 314,994. 1 Claim. (Cl. 130—18.)

A grain separator comprising spaced frame sides, a hopper arranged to discharge grain between the upper portions of said frame sides, means supporting the frame sides and the hopper, an upper inclined chute arranged to receive grain from the hopper and extending in inclined position downwardly between the frame sides and having an upwardly directed lip at its lower end, a lower chute arranged in inclined position between the frame sides and with its upper end below and spaced from the lip at the lower end of the upper chute, a flange reaching upwardly from the upper end of the lower chute, said flange being of greater depth than the lip of the upper chute, a chute arranged between the frame sides in position to receive grain from the lower of said chutes, a chute arranged between the frame sides in position to receive grain from the space between the first-named chute and second-named chute and having a lip at its lower end,



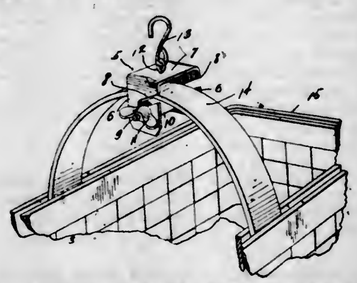
a reversely-inclined chute in communication with the space between the lip of the fourth-named chute and the third-named chute, and an upstanding flange arranged between and common to the third-named chute and the fifth-named chute.

1,353,857. RESPIRATOR. DETLEF KARL HEINRICH SCHUMANN, Hamburg, Germany. Filed Dec. 8, 1913, Serial No. 805,346. Renewed Feb. 17, 1920. Serial No. 359,313. 6 Claims. (Cl. 128—191.)



1. A respirator of the character described, comprising in combination, a mask, a purifying device, a passageway for leading exhaled gases from said mask to said purifying device, means for introducing fresh oxygen into said passageway, and means for returning the regenerated air to said mask.

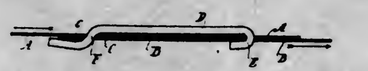
1,353,858. ARTICLE-CARRIER. WALTER F. SHERMAN, Albany, N. Y. Filed May 7, 1917. Serial No. 167,027. 1 Claim. (Cl. 224—5.)



The herein described article carrier comprising a stirrup of strap metal whose center is flat and whose ends are

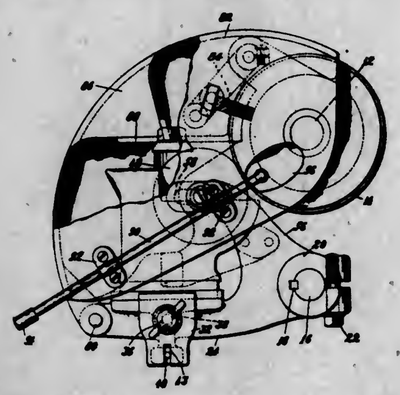
bent downward into legs, the legs having slots extending from corresponding edges thereof obliquely inward and downward, and then deflected and extending vertically downward, a bolt extending across the stirrup and lying removably in the lower ends of said slots, a roller mounted on the bolt between the legs, and a support swivelly connected with the center of the stirrup.

1,353,859. BALE-TIE. ARTHUR HAROLD SINEL, Auckland, New Zealand. Filed May 9, 1918. Serial No. 233,548. 1 Claim. (Cl. 24—22.)



A tie for bale bands formed by a length of metal returned at one end into hook form and at the other end bent away into the same line as the returned or hook end and then continued longitudinally forward and bent slightly toward the band, the portion of the tie between said bent ends being unobstructed, substantially as specified.

1,353,860. RECEPTACLE FOR FINISHING-MACHINES. JOHN F. STANDISH, Winthrop, Mass., assignor to United-Xpedite Finishing Company, Portland, Me., a Corporation of Maine. Filed Dec. 26, 1917. Serial No. 208,897. 31 Claims. (Cl. 91—50.)

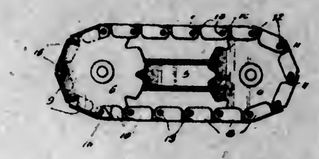


3. In a finishing machine, a receptacle provided with a dovetailed projection, a way having a wall undercut to receive one side of the projection, and a separable securing member having a portion overhanging the other side of the projection.

9. The combination with a finishing machine, of a receptacle, a driven member movable in the receptacle, readily separable means for securing the receptacle to the machine and upon separation permitting the removal of the receptacle in a definite direction, a driving member mounted upon the machine, and a separable connection between the driven member and driving member, the separation of the connection being effected by the removal of the receptacle.

1,353,861. TOY TRACTOR-CHAIN AND LINK THEREFOR. LOUIS STROHACKER, Freeport, Ill., assignor to Structo Manufacturing Company, Freeport, Ill., a Corporation of Illinois. Filed Mar. 1, 1920. Serial No. 362,612. 3 Claims. (Cl. 305—10.)

1. A toy tractor chain comprising linked sheet metal links, each comprising a rectangular body portion having lengthwise-extending side wings perforated at one end and disposed at right angles to said body portion, and a crosswise-extending rib disposed at an angle to said body



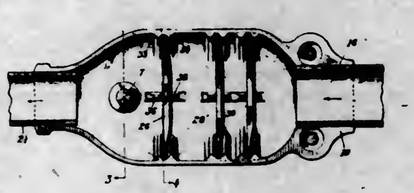
portion on the same side as said wings and having laterally-projecting tongues adapted to enter the perforations of the wings of an adjacent link.

1,353,862. BRAKE FOR TRUCKS AND SIMILAR VEHICLES. HENRY C. STRUCHEN, St. Paul, Minn. Filed Sept. 17, 1917. Serial No. 191,755. 1 Claim. (Cl. 188—119.)



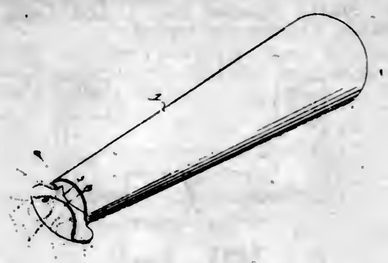
A brake for trucks, comprising a tongue hinged adjacent to a truck axle, oscillatory arms carried by said tongue and extending behind said axle, gears rigidly secured to the front wheels of said truck, a detent mounted on said arms and adapted to be held out of engagement with said gears by said tongue, means to raise said tongue and thereby engage said gears and detent, and brackets secured to said truck and adapted to support said detent when said detent is in engagement with said gears.

1,353,863. MUFFLER. GEORGE H. TABER, Binghamton, N. Y., assignor to Emco Manufacturing Company, Inc., Binghamton, N. Y., a Corporation of New York. Filed Dec. 18, 1919. Serial No. 345,700. 7 Claims. (Cl. 137—160.)



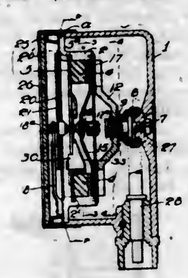
1. In a muffler, the combination of a casing consisting of two main parts joined on a longitudinal line, each part having lugs on the interior wall thereof, and baffle plates secured between said lugs as the two parts of the casing are secured together, said baffle plates having a space between them and the interior walls of the casing for the passage of the gases, substantially as described.

1,353,864. WIND INSTRUMENT. DANIEL T. THOMASSIAN, St. Paul, Minn. Filed Aug. 15, 1918. Serial No. 249,979. 4 Claims. (Cl. 46—46.)



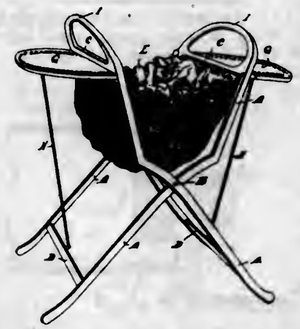
1. In an instrument of the class described, a horn and a flexible digitally controllable tongue extending therefrom and having a vibratory edge.

1,353,865. SPEED-INDICATING INSTRUMENT. WALTER VAN GUILDER, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed June 17, 1918. Serial No. 240,555. 10 Claims. (Cl. 264—4.)



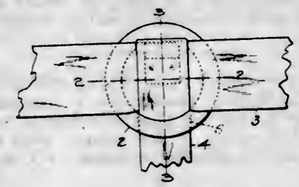
3. In a magnetic speed indicating instrument comprising a fixed magnet element having an interpolar gap, a revolving interrupted armature, and a drag element intermediate the magnet and said armature; a temperature compensating device consisting of a soft armature piece and a bi-metallic arm which carries said armature piece on its movable end proximate to the interpolar gap of the magnet for moving it relatively to said gap upon temperature changes deflecting said bi-metallic arm.

1,353,866. COMBINATION SEWING-TABLE AND NEEDLEWORK-BAG. FRANK VONDRÉE, Ilkley, England. Filed Jan. 21, 1920. Serial No. 353,025. 3 Claims. (Cl. 45—11.)



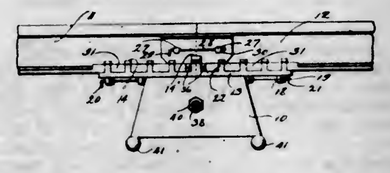
1. A combination table and needlework bag comprising a portable folding stand having crossed arms on opposite sides, the upper end of each arm being set at an angle to the lower portion, a bag supported from the arms having corners extending adjacent to the upper part of the arm, a hinged flap connected to one of the arms, and means for causing the hinged flap to be automatically elevated and projected horizontally to form a table when the stand is opened out.

1,353,867. TRUSS. CHARLES S. WAHLSTROM, Boulder, Colo. Filed Oct. 10, 1919. Serial No. 329,767. 5 Claims. (Cl. 128—100.)



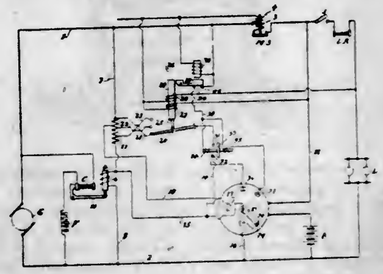
1 A truss comprising a pad having a depression and a slot in the marginal wall thereof, a strap fastened to the pad and passing loosely through the slot and across the depression, and a flexible belt extending loosely across the depression and under the strap in a relatively transverse direction whereby a pull exerted on the strap will cause the belt to enter the depression and bind against the inner edge of the marginal wall thereof.

1,353,868. RAIL JOINT AND SUPPORT. RUFFUS G. WASHINGTON, Chicago, Ill. Filed Dec. 1, 1919. Serial No. 341,825. 2 Claims. (Cl. 238—213.)



1. In a rail joint a pair of rail ends each having notches in the edges of their flange portions and vertical lugs at opposite sides of said notches, a support for the rail ends having lugs for engagement in said notches and disposed between the first-named lugs, said support having removable elements for engagement in certain of the rail base notches, and angle plates connecting the rail ends and interlocking with the rail bases and the lugs and removable elements.

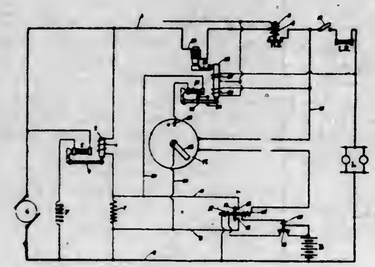
1,353,869. SYSTEM OF ELECTRICAL DISTRIBUTION. LEONARD A. WATSON, Brooklyn, N. Y., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 19, 1919. Serial No. 325,007. 6 Claims. (Cl. 171—313.)



1. In combination, a variable speed generator, a storage battery adapted for connection to be charged thereby, a

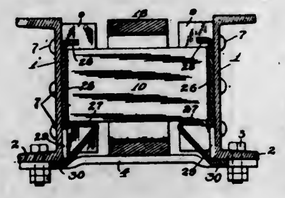
regulator including a voltage coil tending when effective to maintain substantial constancy of generator voltage, a resistance adapted for inclusion in the circuit of said coil under certain conditions and for exclusion therefrom under other conditions, means including an ampere hour meter connected in the battery branch adapted to exclude said resistance from the circuit of said coil for a predetermined interval during battery charging and to reinclude said resistance for a succeeding interval of battery charging, and electro-responsive means to re-exclude said resistance from the circuit of said coil upon a predetermined diminishment of generator voltage next succeeding substantial completion of battery charging.

1,353,870. SYSTEM OF ELECTRICAL DISTRIBUTION. LEONARD A. WATSON, Brooklyn, N. Y., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 19, 1919. Serial No. 325,009. 5 Claims. (Cl. 171—313.)



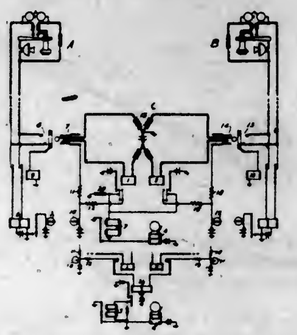
1. In combination, a variable speed generator, a battery adapted for connection to be charged thereby, a regulator including a voltage coil tending when effective to maintain substantial constancy of generator voltage, a resistance adapted for inclusion in the circuit of said coil under certain conditions, a variable resistance adapted for connection in shunt about said first-mentioned resistance, an ampere hour meter connected in the battery branch and indicative of the state of battery charge by current measurement adapted to include said variable resistance in shunt with said first-mentioned resistance at the end of battery charging, and means to control said variable resistance in accordance with the voltage of said battery.

1,353,871. DRAFT-GEAR BRACKET. JAMES MILTON WAUGH, Chicago, Ill. Filed Feb. 10, 1919. Serial No. 276,214. 6 Claims. (Cl. 213—64.)



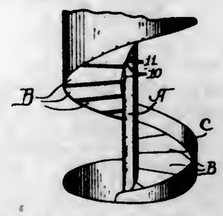
5. In a device of the class described the combination of a pair of spaced sills, a drawbar, shock-absorbing means slidable longitudinally of the sills, and adapted to absorb twisting and pulling strains on the drawbar, supporting members positioned adjacent the inner surfaces of the sills and formed to project under the shock absorbing means to afford guide shoulders therefor, and a transverse member connecting the sills and engaging under said supporting members.

1,353,872. TELEPHONE-EXCHANGE SYSTEM. WILLIAM C. WEAVER, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1918, Serial No. 224,516. Renewed Mar. 5, 1920. Serial No. 363,592. 6 Claims. (Cl. 179—73.)



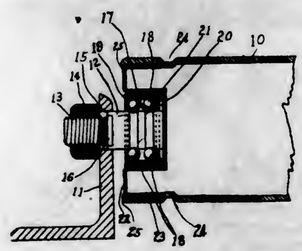
2. In a telephone exchange system, a plurality of lines terminating at a central office, a link circuit thereat for interconnecting the lines, a supervisory relay for the link circuit adapted to control a visual supervisory signaling device, an auxiliary relay operable during each operating and each releasing period of the supervisory relay, and an auxiliary signaling device controlled by the auxiliary relay to produce a momentary audible signal for each operation of the auxiliary relay.

1,353,873. SPIRAL CHUTE. PETER C. WEGO, St. Paul, Minn. Filed Sept. 8, 1919. Serial No. 322,341. 4 Claims. (Cl. 193—42.)



1. In a spiral chute the combination, with a central supporting column and an outer guard rail, of a slideway consisting of sections, each of which is formed with a folded overlapping lip and a right angled flange, the underlying edge of the adjacent section being also formed with a right angled flange, and means for connecting said flanges on adjacent sections.

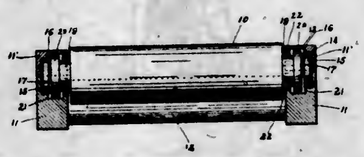
1,353,874. BEARING FOR CONVEYER-ROLLERS. PETER C. WEGO, St. Paul, Minn. Filed Oct. 20, 1919. Serial No. 331,927. 4 Claims. (Cl. 64—36.)



1. In a bearing for conveyer rollers, a stud having a threaded outer end, an inner end formed with a shoulder

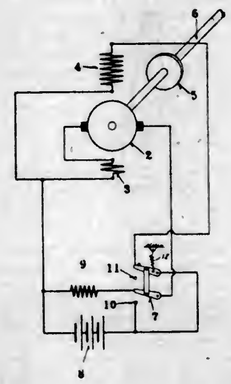
and a plurality of peripheral grooves, a series of balls in each of said grooves, a cylindrical cage for said balls, a roller cap provided with a cylindrical axial cavity adapted to snugly but revolubly fit said cage and means for locking the stud in a support.

1,353,875. GRAVITY-CONVEYER. PETER C. WEGO, St. Paul, Minn. Filed Feb. 19, 1920. Serial No. 359,973. 3 Claims. (Cl. 64—24.)



1. A gravity conveyer comprising non-metallic rollers and side rails, a socket for a bearing, formed in the outer portion of the rails, axially arranged at each end of each roller, an enlargement of said socket forming a grease cup between said bearing and said roller, and a revoluble plug for said grease cup formed axially upon said roller.

1,353,876. STARTING APPARATUS FOR INTERNAL-COMBUSTION ENGINES. HANS WEICHSEL, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed May 23, 1919. Serial No. 299,316. 3 Claims. (Cl. 290—38.)



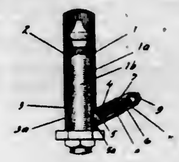
1. The combination with an internal combustion engine, a starting motor therefor, an overrunning clutch for connecting the motor to the engine, and means for short circuiting the motor to cause it to act as a generator when the engine operates under its own power in the direction opposed to its normal direction of rotation.

1,353,877. METHOD OR PROCESS OF MAKING SHOES AND OTHER SIMILAR FORMS OF FOOTWEAR. PEARL J. WENTWORTH, Fort Thomas, Ky. Filed June 8, 1917. Serial No. 173,477. 4 Claims. (Cl. 12—142.)



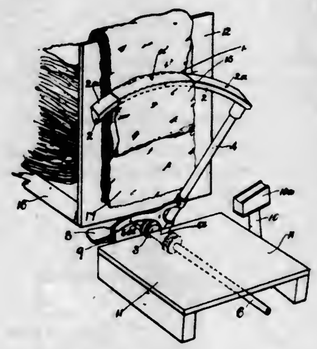
2. The method or process of making shoes and similar articles of foot-wear, including providing an assembled upper with the lining and upper secured together along their lower edges except at the heel and toe portion with a counter and box toe inserted, then lasting the assembled upper in on an unchanneled insole with an adhesive therebetween and temporarily tacking the upper and insole together while the adhesive therebetween sets to permanently secure them together, removing the tacks after the adhesive has set, placing the outsole thereon with an adhesive therebetween, applying pressure to said outsole to level the same, all while the shoe is on its original last, then stitching said outsole to said insole, and finishing the shoe.

1,353,878. VALVE-CAP. WILLIAM H. WEST, Stockton, Calif. Filed Sept. 17, 1917. Serial No. 191,699. 3 Claims. (Cl. 152—12.)



1. In a device of the class described, a cap body and a manually operable locking pin having its engaging portion arranged near the open end of the cap and means to yieldingly hold the same in a locking position and other means for locking the pin in an unlocked position.

1,353,879. APPARATUS FOR USE IN CONNECTION WITH THE FINISHING OR TREATING OF WOVEN FABRICS. PERCY KAY WHITEHEAD, Bury, and JAMES ROTHWELL, Prestwich, England, assignors to Bradford Dyers' Association Limited, Bradford, York, England. Filed Oct. 31, 1918. Serial No. 260,500. 5 Claims. (Cl. 154—42.)

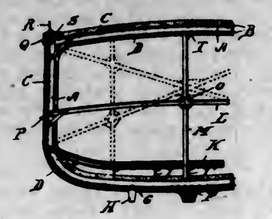


1. In apparatus for use in the pasting together of the ends of fabrics, a hollow plate, means for supporting said hollow plate so that it will extend horizontally therefrom to have its extending end free and means for heating the upper surface of said plate.

1,353,880. CEMENT SHIP CONSTRUCTION. IVAR WIDING, Dorchester, Mass., assignor to Nina M. Porter. Filed July 20, 1917. Serial No. 181,685. 3 Claims. (Cl. 114—65.)

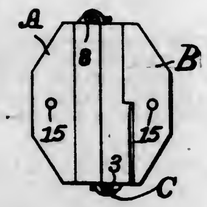
1. Reinforced concrete ship construction, comprising a metallic framework adapted to receive and hold a con-

crete covering, said framework including metallic protecting members for the corners, edges and exposed por-



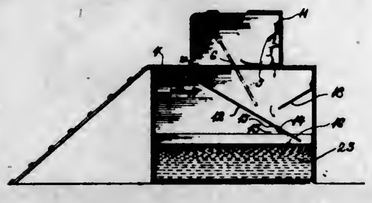
tions of said concrete, said protecting members being secured to and carried by the metallic framework.

1,353,881. CONTRACTILE SPRING DEVICE. LACEY Y. WILLIAMS, deceased, Toledo, Ohio, by Martin S. Dodd, administrator. Filed Oct. 28, 1919. Serial No. 333,877. 8 Claims. (Cl. 267—74.)



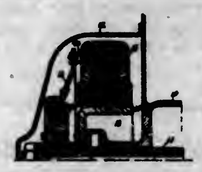
3. A spring device comprising two elements, one formed by bending a blank having two slots to form a hollow portion at one edge, a wing, and a single slot formed by the registry of the two slots; the other formed by bending a blank having a slot and between the edges of the slot to form a hollow portion at one edge, a wing and an open slot; one of said elements telescoping within the other and united thereto by a coiled spring within the same having its opposite ends secured to the oppositely disposed elements.

1,353,882. MULTIPLE TRAP. FRANK WÓJCIK, Holyoke, Mass. Filed Jan. 19, 1920. Serial No. 352,354. 1 Claim. (Cl. 43—69.)



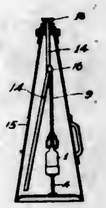
A multiple trap comprising a frame, a platform on the top of said frame, an opening in said platform, a door pivotally mounted so as to normally close said opening, the center of gravity of said door being situated to one side of the pivot thereof, an inclined chute attached to the underside of said platform under said opening, a second inclined chute attached to the wall of said frame and overshadowing said first-named chute, an extension resiliently and pivotally attached to the end of said first-named chute, and water or the like in the bottom of said frame under said opening.

1,353,883. DYNAMO-ELECTRIC MACHINE. THOMAS ZIMMERMAN, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Nov. 12, 1915. Serial No. 61,060. 5 Claims. (Cl. 172—36.)



1. In a dynamo-electric machine, a laminated armature core, rings arranged on either side of said core, rivets extending through said rings and core, one of said rings being counterbored at the rivet holes on the outside surface, and a supporting plate provided with riveted bushings of non-magnetic material corresponding in number and location to said rivets, said bushings carrying said rivets and fitting into said counterbored portions for the purpose set forth.

1,353,884. FIRE-EXTINGUISHING APPARATUS. KUSTAA EMIL ALITALO, Åbo, Finland. Filed Mar. 8, 1919. Serial No. 281,493. 2 Claims. (Cl. 169—32.)



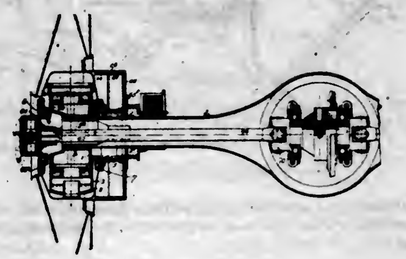
1. A fire extinguishing apparatus comprising a liquid container, a receptacle containing a substance reacting with the liquid in the container, said receptacle being arranged inside the container near the bottom thereof and provided with openings located one at each end of the receptacle, plugs connected with one another and arranged to close the openings in the receptacle, and a push rod connected with the receptacle and extending outside the container and adapted, on being operated, to open said receptacle at both ends simultaneously.

1,353,885. BEADING. EDWARD W. AUFDERHEIDE, Chicago, Ill. Filed Oct. 10, 1919. Serial No. 329,790. 3 Claims. (Cl. 155—184.)



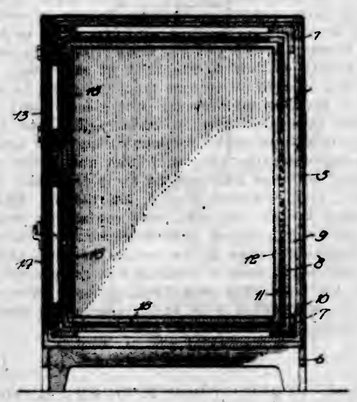
1. Beading comprising a strip of fabric folded into substantially cylindrical form, an outer cover, and tacks having their points projecting beyond the beading and their heads embedded in the folded strip of fabric.

1,353,886. PNEUMATIC ANTIVIBRATION DEVICE FOR AUTOMOBILES. GEORGE W. BELL, Detroit, Mich. Original application Serial No. 866,000, filed Oct. 10, 1914. Divided and this application filed Dec. 23, 1918. Serial No. 267,922. 7 Claims. (Cl. 180—73.)



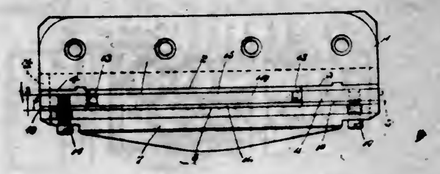
5. In an anti-vibration device of the character described, an axle housing, a piston mounted on the end portion of the housing, a cylinder reciprocable on the piston, a pair of bearings mounted on opposite sides of the cylinder around the housing, a wheel hub journaled thereon, a wheel hub cap detachably secured to the hub, a universal joint one member of which is pivotally secured to the cap on an axis transverse to the hub axis, a driving shaft oscillatory and rotatable in the housing and non-rotatably secured to the other part of the universal joint, and differential mechanism mounted in the housing and universal joint connections between the take off driving member of the differential mechanism and the driving shaft, the wheel with piston and cylinder forming a unit removable endwise from the housing.

1,353,887. REFRIGERATOR. BERGET H. BLOCKSOM, Chicago, Ill., assignor to Wilson & Co., Inc., Chicago, Ill., a Corporation of New York. Filed Sept. 20, 1917. Serial No. 192,270. 3 Claims. (Cl. 217—5.)



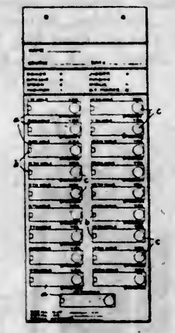
1. In a refrigerator, an outer shell, an intermediate shell, spacer members enveloping each of the corners of said intermediate shell and maintaining said shells in spaced relation to form a dead air chamber therebetween, an inner shell spaced from said intermediate shell, and a layer of curled hair in the space between said inner and said intermediate shells.

1,353,888. MORTISH-MOLD. WILLIAM E. BORST, Grand Rapids, Mich., assignor of one-half to Clarence C. Gilleo, Grand Rapids, Mich. Filed Oct. 26, 1918. Serial No. 259,764. 5 Claims. (Cl. 199—58.)



4. Means for casting an open box of type metal, and means for forming a raised border on the edges of the box around the opening therein, substantially as described.

1,353,889. GOLF SCORE-CARD. KENNETH W. BROWN, Yonkers, N. Y. Filed Aug. 1, 1919. Serial No. 314,645. 9 Claims. (Cl. 283—49.)



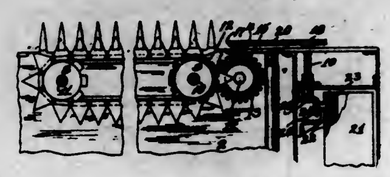
1. A golf score card having graphic fair greens each surrounded by a space for representing the rough about the fair green, each fair green having at one end thereof a delineated portion for designating a tee and at the other end a delineated portion designating a putting green, each fair green also having associated therewith a numeral designating the number of a golf hole or pocket to which the graphic fair green corresponds, an indicated blank for noting the distance from the tee to the golf hole or pocket, and a designated blank space for inserting the total number of strokes taken in making the hole from the tee.

1,353,890. HEADLIGHT-SHADE. FREDERICK W. CAPPELEN, Minneapolis, Minn. Filed Oct. 16, 1916. Serial No. 125,889. 1 Claim. (Cl. 240—45.6.)



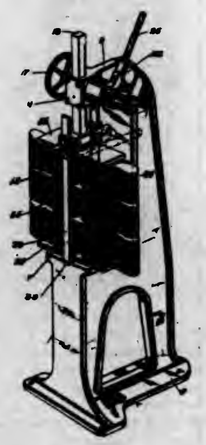
The combination, with a vehicle headlight, of semi-circular shades mounted to swing on vertical axes in front of the headlight lens to obscure a semi-circular portion of the lens upon either side of the vertical axis thereof, means connecting said shades for simultaneous movement to obscure a portion of the lenses on the same side of the vehicle, said shades swinging to a point close to the lens and in a plane parallel therewith upon either side of the vertical axis of the lens and wholly obscuring the rays of light from both lenses on the same side, whereby the space in front to the right or the left side of the vehicle is darkened and the glare of light in the face of a driver approaching is prevented.

1,353,891. ENDLESS CUTTER FOR MOWERS. ALBERT E. COOK, Evanston, Ill. Filed Oct. 30, 1917. Serial No. 199,293. 4 Claims. (Cl. 56—291.)



2. A mower cutting mechanism comprising an adjustable guard bar, a flange integrally formed thereon, an endless cutter on said guard bar, and an adjustable race member on said guard bar adapted to co-act with said flange to afford a guide for said endless cutter.

1,353,892. SOLE-HOLDER. JOHN W. COSGROVE, Medford, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 24, 1917. Serial No. 150,833. 7 Claims. (Cl. 100—57.)

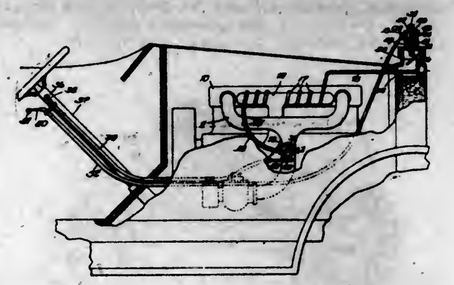


1. A holder for a pile of blanks adapted to be placed in and removed from a press, said holder comprising a U-shaped frame, a clamping member slidable on the arms of the frame and provided with sockets, and locking levers having slots to receive the arms of the frame, the inner ends of the levers being received in the sockets.

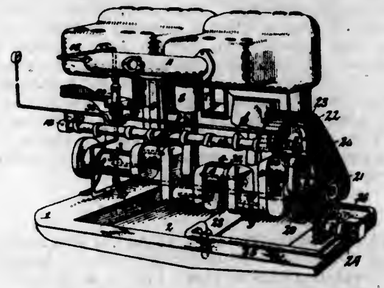
3. A holder for a pile of blanks, having, in combination, a U-shaped frame, a clamping member slidable on the arms of the U and provided with sockets and levers loosely fulcrumed at one end in said sockets and provided with means to receive and grip the arms of the U.

1,353,893. APPARATUS FOR MIXING AND CONTROLLING A SUPPLY OF FUEL FOR EXPLOSION-ENGINES. WILLIAM D. COUPER, Chicago, Ill. Filed July 8, 1918. Serial No. 243,762. 1 Claim. (Cl. 123—25.)

An apparatus of the character described embodying a source of supply of fuel, a radiator, means for supplying outside air directly to the radiator and mixing said air supply with the vapor and within the radiator, means for automatically and also positively controlling the proportion of outside air supplied to the radiator, means for conducting the said mixture of air and vapor from the radiator and mixing the same with the supply of fuel to be delivered therewith to the engine, and means for automatically and positively controlling the proportion of the said mixture of air and vapor with the said supply of fuel.



1,353,894. MECHANISM FOR CONTROLLING LUBRICATION OF EXPLOSION-ENGINES. CHARLES A. CRIQUI and ELWOOD T. LARKIN, Buffalo, N. Y.; said Larkin assignor to said Criqui. Filed Dec. 31, 1918. Serial No. 269,067. 2 Claims. (Cl. 123—196.)



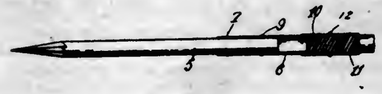
1. An explosion engine having a firing cylinder, a fuel intake connected with said cylinder, a throttle for controlling the admission of fuel to said intake, a lubricating apparatus comprising a pump having an outlet connected by a delivery conduit with the parts to be lubricated, a sump from which the lubricating oil is conducted by a supply conduit to the inlet of said pump and to which the surplus oil returns from the parts to be lubricated, a pressure maintaining device comprising a valve chamber having an inlet communicating with said delivery conduit, an outlet communicating with said sump, and a valve seat between said inlet and outlet, a valve engaging said seat and opening away from said delivery conduit, and retaining means for holding said valve yieldingly against its seat, and controlling means for said valve comprising a movable element which supports said retaining means in its normal position and which is shifted in response to variations in the suction of said intake for permitting said valve to open more or less freely in accordance with variations in the position of said throttle and the load on the engine.

1,353,895. CURVED WOOD TUBE AND METHOD OF MAKING THE SAME. JOHN CZUMPFT, Brooklyn, N. Y., assignor to Art Woodwork Company, Brooklyn, N. Y., a Copartnership comprising Robert T. Buttelman, John Czumpft, and John Jung. Filed May 21, 1918. Serial No. 235,833. 2 Claims. (Cl. 144—309.)

2. The method of making wood tubes of varied curvature, which consists in forming circular channels of a circular inner and outer profile from a block of wood, cutting longitudinal grooves in the two circular faces of said channels, cutting said channels into suitable sections, rabbeting the front faces of said channel sections, applying flexible longitudinal splines into the grooves of said sections and joining said sections together by glue or by other means in such a way as to form a wood tube of the curvature desired and calculated.

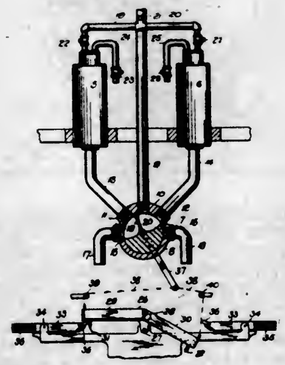


1,353,896. COMBINED ERASER-HOLDER AND POINT-PROTECTOR FOR PENCILS. VERNON B. DAWSON, Bridgeton, N. J. Filed May 9, 1917. Serial No. 167,534. 1 Claim. (Cl. 120—38.)



An improved eraser holder comprising a tube split at its lower end to receive a pencil and having an exterior bead at its mid-length, a rubber eraser having one end held in the upper end of the tube, and an internally smooth sleeve telescoped on the tube and slidably inclosing the projecting portion of the rubber, the sleeve being longer than the distance from the upper end of said tube to its bead.

1,353,897. HYDRAULIC AIR-COMPRESSOR. HERBERT M. DE WITT, Denver, Colo. Filed July 30, 1919. Serial No. 314,192. 4 Claims. (Cl. 230—16.)



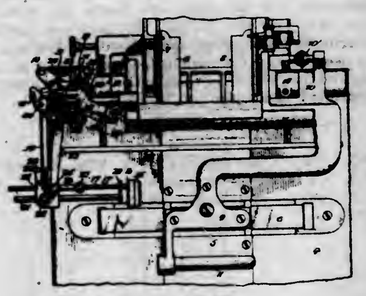
1. A hydraulic air-compressor comprising in combination with a source of water under pressure, two containers each having at one end a valve-controlled air-inlet and a valve-controlled air-outlet, a valve controlling a flow of water to and from the opposite ends of the containers and adapted to alternately place the containers in communication with the source, and mechanism for the operation of the valve by the discharge of water from the containers.

1,353,898. OIL-CAN HOLDER. HUGH L. DECKER and HARRY E. ADAMS, Toledo, Ohio, assignors to The W. G. Nagel Electric Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 31, 1919, Serial No. 348,647. Renewed Aug. 7, 1920. Serial No. 402,031. 4 Claims. (Cl. 248—20.)



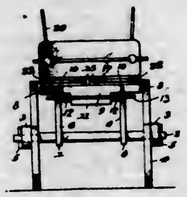
1. A holder of the class described, comprising an L-shaped body member with catch means at its outer end, and an angled spring tongue carried by the upright of said member and adapted to exert an upward and an outward lateral pressure on an article seating in the holder.

1,353,899. EJECTOR FOR PRINTING-MACHINES. JOSEPH S. DUNCAN, Chicago, Ill., assignor to Addressograph Company, Chicago, Ill., a Corporation of Illinois. Filed June 23, 1919. Serial No. 306,029. 16 Claims. (Cl. 271—84.)



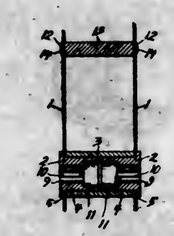
2. In a printing machine, the combination of an ejector, a lever to operate said ejector, a spring controlled rocker pivotally mounted independent of said lever and movable conjointly therewith and independently thereof, means for holding the rocker in set position for operating the lever, and a tripper for operating said means.

1,353,900. TOY. ERNEST C. FLATMAN, Detroit, Mich. Filed July 29, 1919. Serial No. 314,063. 7 Claims. (Cl. 46—48.)



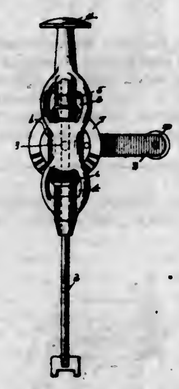
4. A toy comprising an axle provided with detachable wheels, bolster supported members on said axle, bolsters detachably connected to said members, a body on said bolsters, ladder and planks forming the bottom of said body, and means extending transversely of said body and through said bolster supporting members adapted to retain said body on said bolsters.

1,353,901. REEL. LE ROY M. FULTON, Chicago, Ill. Filed Jan. 30, 1920. Serial No. 355,139. 9 Claims. (Cl. 242—70.)



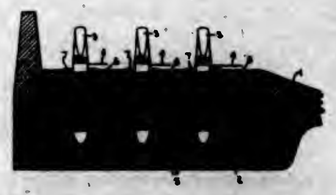
1. A reel including a disk provided with a central aperture; a bored hub member; a second hub member adapted to pass through the aperture of the disk and into the bore of said first mentioned hub member and adapted to be secured therein; a circumferential flange formed on said second hub member adapted to engage the adjacent side of the disk to clamp the same against said first mentioned hub member; and means for rotatively fixing the disk and one of the hub members including interengaging radial surfaces formed on the disk and said one hub member and disposed to be maintained in interengaging relation when the disk is clamped between said flange and first mentioned hub member.

1,353,902. DRIVING MECHANISM FOR GRINDING-TOOLS. CHARLES W. HEBERGER, Rochester, N. Y. Filed Apr. 3, 1919. Serial No. 287,271. 1 Claim. (Cl. 74—50.)



In a grinding tool for valves, the combination of a frame, a spindle mounted to rotate in said frame, a mutilated bevel gear mounted to rotate on one side of said frame, a mutilated pinion having alternate segments of teeth and blank spaces mounted on said spindle on one side of said mutilated gear, and a second bevel pinion mounted on said spindle on the other side of said bevel gear.

1,353,903. PIANO. RICHARD W. GERTZ, Brookline, Mass. Filed June 22, 1918. Serial No. 241,366. 5 Claims. (Cl. 84—67.)



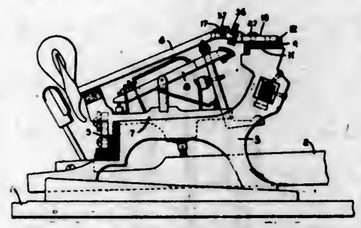
1. A wrest plank for a piano composed of a plurality of layers of closely-woven textile fabric adhesively united face to face and densely compacted together thereby to provide an all-fabric frictional engagement with the tuning pins which are anchored therein.

1,353,904. AGRAFFE. RICHARD W. GERTZ, Brookline, Mass. Filed Dec. 20, 1918. Serial No. 267,570. 6 Claims. (Cl. 84—138.)



1. In piano construction, the combination with a piano frame having a plurality of agraffe-receiving recesses, of an agraffe in each recess resting against the bottom thereof and retained in position by the walls thereof, each agraffe having a concave under face, thereby forming at opposite sides two bearing edges which rest against the bottom of the recess.

1,353,905. PIANO-ACTION. RICHARD W. GERTZ, Brookline, Mass. Filed Feb. 6, 1919. Serial No. 275,283. 1 Claim. (Cl. 84—26.)

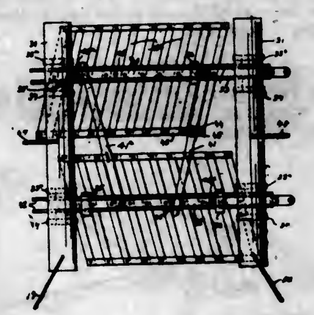


In a piano action, the combination with a supporting rail, of a flange member supported thereon and having a transverse groove, means for securing the flange member to the supporting rail, a pivot pin in said groove, a hammer shank pivotally connected to said pivot pin, a clamping member for retaining the pivot pin in the groove, means for securing the clamping member to the flange member, which means is entirely separate from the means that secures the flange member to the rail whereby the clamping member may be removed or replaced without disturbing the adjustment of the flange, a wippen provided with a repetition lever, and a stop screw for the repetition lever screw-threaded through the flange.

1,353,906. CURRENT-MOTOR. FRANK L. GILMAN and WILLIS M. BAUM, Los Angeles, Calif. Filed Feb. 25, 1918, Serial No. 219,042. Renewed Feb. 12, 1920. Serial No. 358,132. 1 Claim. (Cl. 170—95.)

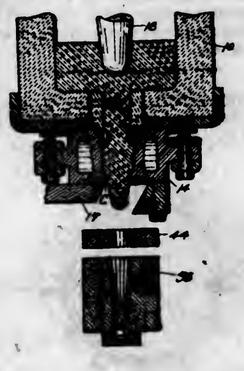
A current motor comprising a pair of pontoons anchored in parallel relation on opposite sides of a stream;

a pair of guide rails connecting said pontoons at each end thereof; a traveling carriage mounted at each end of each of said pair of rails and extending downwardly therefrom; a cross rail carried by each pair of said carriages; a plurality of propeller blades pivotally mounted



intermediate their ends on the underside of said cross rails; cross bars connecting the free ends of said propeller blades; means actuated by said propeller blades for reversing the same; and a connection from said propeller blades to transmit the power developed thereby.

1,353,907. MEANS FOR AND METHOD OF FLOWING GLASS. JOSEPH B. GRAHAM, Evansville, Ind., assignor to The Owens Bottle Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed June 14, 1917. Serial No. 174,697. 37 Claims. (Cl. 49—55.)

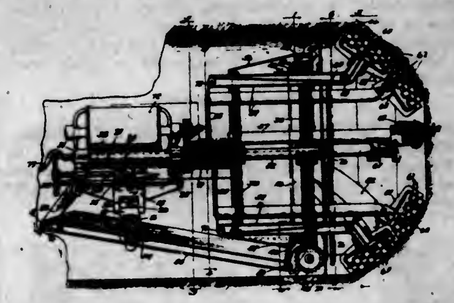


8. The combination of means for supporting a mass of molten glass, comprising lateral and bottom supporting surfaces, and means to withdraw said bottom surface and leave the glass supported by said lateral surfaces, the latter formed to temporarily sustain the weight of the glass, and means to withdraw the lateral surfaces and thereby permit the glass to drop by gravity.

18. The method of manipulating glass, which consists in establishing a flowing stream, arresting said stream and causing the glass to accumulate, supporting the accumulating mass by the lateral surfaces thereof while the bottom portion of the mass is unsupported and permitted to draw downward, and then releasing said mass.

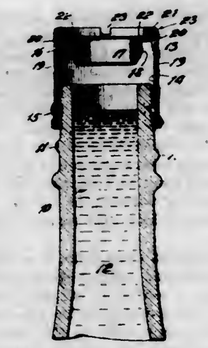
1,353,908. TUNNELING-MACHINE. CARL W. HODGSON, Denver, Colo. Filed July 19, 1918. Serial No. 245,753. 19 Claims. (Cl. 262—7.)

1. A tunneling machine embodying a rotatable support, means for rotating the support, cutters mounted upon the support for rotation therewith and for independent rotation with respect thereto, means for imparting such



independent rotation to the cutters, and means responsive to the movement of said support for advancing the cutters.

1,353,909. CLOSURE FOR JARS, BOTTLES, AND OTHER RECEPTACLES. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1919. Serial No. 322,403. Renewed June 11, 1920. Serial No. 388,347. 4 Claims. (Cl. 215—13.)

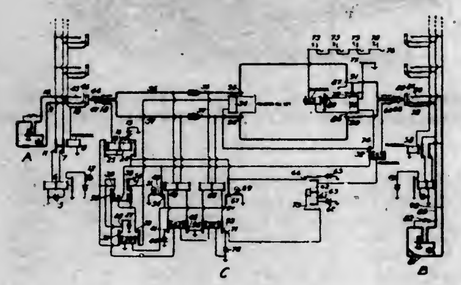


3. A receptacle and a closure therefor comprising a barrel or skirt portion having a top member and integral side fingers slit and bent inwardly and having a reverse bend at their upper ends forming recessed hooks, a top having a depending central part to enter the mouth of the receptacle and a lateral flange extending outwardly from the upper end of said depending portion and engaged at its edges by said hooks and at its upper surface by said top member, and a vertical gasket on said depending portion to seal against the same and the inner side walls about the mouth of the receptacle, said gasket having a downwardly and inwardly tapered lower edge, a wall to engage said depending portion of said top, a wall to engage the adjacent surfaces of the receptacle and an upper edge to engage the flange of said top, and said barrel or skirt portion and said top being in independent parts and said barrel portion being rotatable around said top.

4. A receptacle and a closure therefor comprising a barrel or skirt portion having its upper edge bent inwardly and downwardly to form a raised bead, a top member extended inwardly from the lower inner edge of said bead, side fingers slit and bent inwardly from the side of the barrel portion and said bead and having a reverse bend at their upper ends forming recessed hooks and recesses in said bead at the points where the upper ends of said fingers were cut therefrom, a top having a depending central part to enter the mouth of the receptacle and a lateral flange extending outwardly from the upper end of

said depending portion and engaged at its edges by said hooks and at its upper surface by said top member, and a vertical gasket on said depending portion to seal against the same and the inner side walls about the mouth of the receptacle, said barrel or skirt portion and said top being in independent parts and said barrel portion being rotatable around said top.

1,353,910. TELEPHONE SYSTEM. LEWIS H. JOHNSON, Bloomfield, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed July 25, 1914. Serial No. 853,139. 20 Claims. (Cl. 179—58.)

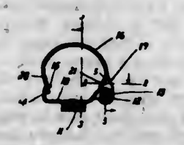


1. A telephone system comprising subscribers' lines terminating at a central office, link conductors thereat for interconnecting said lines, line signals for said lines, a double-wound relay associated with each end of said link conductors, one of said windings being normally short-circuited when said link conductors are connected with said lines, a cutoff relay for the line signal energized over a circuit including the non-short-circuited winding of said double-wound relay, and means controlled by the operation of a subscriber's switch-hook for removing the short circuit from said short-circuited winding to release said cut-off relay, whereby the subscribers may regain control of said line signals.

15. In a telephone system comprising a calling telephone line, a link circuit including talking conductors connected with the calling line, a source of current normally connected with the talking conductors for supplying talking current to the calling line, a relay in the link circuit connected between the source of current and the talking conductors and controlled over the calling line, a second line, means for connecting a source of ringing current therewith and circuit connections rendered effective by the line-controlled relay in response to the opening of the calling line for disconnecting the source of current from the talking conductors thereby removing the line-controlled relay from control of the calling line and for causing the disconnection of the ringing current from the second line.

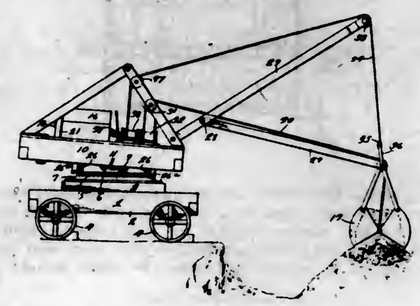
1,353,911. [WITHDRAWN.]

1,353,912. BOW-HOLDER. GEORGE S. KELLEY, Cranston, R. I. Filed Oct. 7, 1919. Serial No. 329,126. 3 Claims. (Cl. 24—228.)



3. A head dress retaining device comprising a base portion having a jointed ear at one end pierced and twisted to stand at a right angle to the plane thereof, a ribbon retaining yoke of resilient material having a jointed ear at one end pierced and twisted to stand at right angles to the plane thereof, said jointed ears being pivotally connected together, a catch at the opposite end of said yoke for releasably engaging the corresponding end of said base, a portion of said ear on the yoke being offset to engage the edge of the ear in the base to limit the forward swing of said yoke.

1,353,913. POWER-EXCAVATOR. RICHARD C. KEOGAN, South Bend, Ind. Filed May 13, 1920. Serial No. 381,159. 6 Claims. (Cl. 212—58.)



1. An excavating machine comprising a base having a pivotally and tiltably mounted platform thereon, a weight suspending element carried by the platform for lifting a weight, and means interposed between the base and platform whereby when the weight is suspended by the weight engaging element the platform will be tilted and slued to one side and means whereby when the weight is released by the weight engaging element the platform will be moved in a reverse direction.

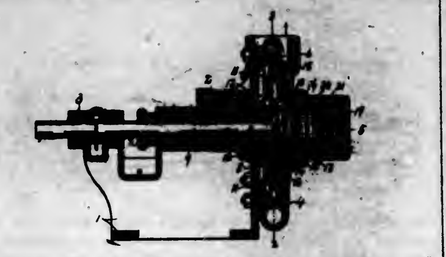
1,353,914. BRAKE-SHOE. CHARLES H. KEYES, Denver, Colo. Filed Jan. 20, 1919. Serial No. 272,044. 2 Claims. (Cl. 74—13.)



2. A brake-shoe of the character described comprising a ring made of bent metal of channel section, the flanges of which extend inwardly from its periphery, the ring being split crosswise and its end portions being bent inwardly to provide opposed faces for the engagement of an interposed cam, hooks formed integrally with the web of the ring at opposite sides of its split, and a spring attached to the hooks.

1,353,915. CENTRIFUGAL PUMP. BENJAMIN J. KIME, Seneca Falls, N. Y., assignor of one-fourth to Ransom R. Micks, Seneca Falls, N. Y. Filed Nov. 21, 1919. Serial No. 339,531. 4 Claims. (Cl. 103—43.)

1. In a centrifugal pump, an impeller case having an inlet and an outlet, an impeller having an inlet and passages communicating respectively with the first-named inlet and outlet, a valve controlling communication between the inlet and passages of the impeller and normally having restricted communication with said passages, a piston actuated in one direction by pressure of the fluid discharged by the impeller and connected to the valve for gradually opening the latter as the liquid pressure increases beyond a certain degree, and retracting means for the valve and piston.

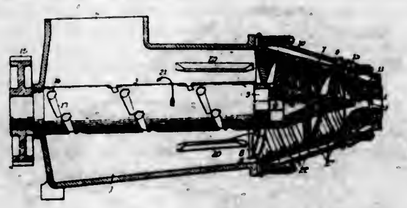


1,353,916. REFLECTING DEVICE FOR ELECTRIC INCANDESCENT LAMPS. SIDNEY M. KNOPF, New York, N. Y. Filed Aug. 22, 1917. Serial No. 187,617. 1 Claim. (Cl. 240—103.)



A reflector for incandescent electric lamps, comprising a shell in the shape of a truncated cone, a flange at the lower edge of said cone, and a disk supported on said flange, said disk being in a plane at right angles to the axis of said shell, said shell being provided with an inner reflective surface, and said disk being provided with a lower reflective surface.

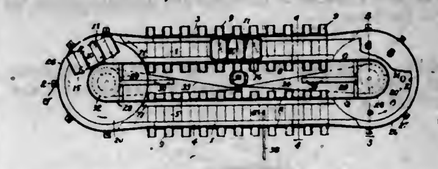
1,353,917. BRICK MACHINERY. FRANK B. LAMBERT, Chicago, Ill. Filed Oct. 9, 1915. Serial No. 54,935. 2 Claims. (Cl. 25—14.)



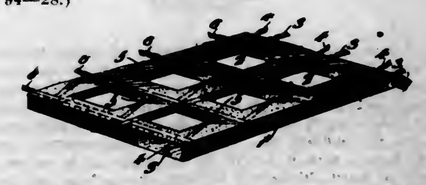
2. In a clay press, a sharply tapered screw having a single thread of relatively large pitch, means for rotating the screw, a screw casing having an inner surface closely approximating the outer edges of the screw, said casing having an inner surface closely approximating the outer edges of the screw, said casing having covered its inner tapered surface substantially by a plurality of shallow screw threads alternated with grooves of substantially the same width as the threads, the side faces of the threads which receive the clay being inclined to the axis of the screw and adapted to direct the clay toward the axis of the casing as the same is forced forward by the screw.

1,353,918. SPEEDWAY AMUSEMENT DEVICE. AUGUST P. LAUSTER, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Hyla F. Maynes, Gaines, Pa. Filed Feb. 28, 1920. Serial No. 361,953. 18 Claims. (Cl. 104—36.)

1. In a device of the character set forth, a pair of horizontal turn-tables mounted to rotate and located some distance apart, a car, a guideway adjacent one turn-table to receive the car and direct it onto the turn-table to guide the car to travel around on the turn-table to the opposite side and thereupon direct the car from the turn-table, a similar guideway for the other turn-table, and a pair of track guideways for the said car, one arranged to cause the car when ejected from one turn-table by the guideway to pass along one track and enter the said guideway of the other turn-table, the second track guideway being arranged to receive the car ejected from the latter turn-table and guide it back to the other turn-table.

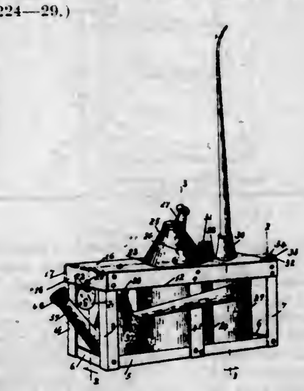


1,353,919. VAULT-LIGHT, SKYLIGHT, OR FLOOR-LIGHT CONSTRUCTION. CHARLES HENRY LAW, Forest Hill, N. Y., assignor to American Bar-Lock Company, New York, N. Y., a Corporation of Pennsylvania. Filed Sept. 27, 1919. Serial No. 326,886. 3 Claims. (Cl. 94—28.)



1. A skylight, vault light, or floor light construction comprising a concrete slab having lens receiving openings and having embedded in it on opposite sides of the openings, a longitudinally extending upper and a lower bar, the upper bar being in truss formation so that opposite each opening it has truss portions extending above the face of the slab to form bonding portions, reinforcing bars embedded in the slab, extending at an angle to the other reinforcing bars and positioned above them, lenses covering the lens receiving openings, and a layer of concrete surrounding the lenses and embedding the bonding portions of the truss-reinforcing bars.

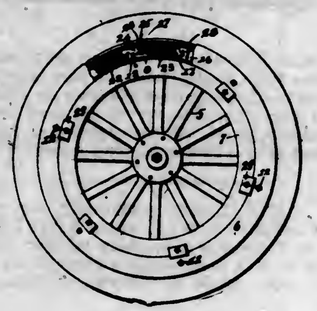
1,353,920. OIL KIT. JAMES W. LAYTON, Springfield, Ill. Filed June 7, 1920. Serial No. 387,049. 2 Claims. (Cl. 224—29.)



1. A kit comprising a case; an oil bucket having a conical top, ears on said conical top and a bail engaged in

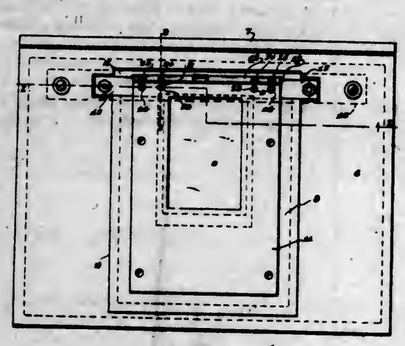
said cars; an oil can having a neck and an elongated nozzle and a filler tube; a torch having a cap; a cover detachably connected with the case and having openings accommodating the conical part of the bucket and the neck and the filling tube of the oil can; and an inwardly extended hood attached to the cover and accommodating the cap of the torch.

1,353,921. VEHICLE-TIRE. GEORGE C. LEHR, St. Louis, Mo. Filed May 5, 1919. Serial No. 294,903. 1 Claim. (Cl. 152—8.)



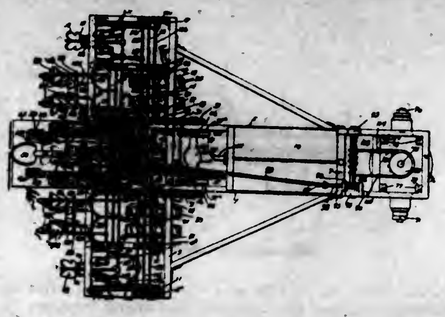
A vehicle tire comprising a plurality of spiral springs having helical ends so as to form substantially flat surfaces and arranged radially, hinged connections for connecting each spring with the adjacent springs at their outer ends so as to form substantially a ring, a solid rubber tire surrounding the springs and their connections, a bead formed on each side of the tire adjacent the springs, a strip of fabric interposed between the springs and the tire, centrally located projections located on the inner ends of the springs in combination with a split demountable rim, in which said projections and springs are seated.

1,353,922. PHOTOGRAPHIC-PRINTING FRAME. CARL JOSEPH LISH, Louisville, Ky. Filed Mar. 19, 1920. Serial No. 367,083. 4 Claims. (Cl. 95—77.)



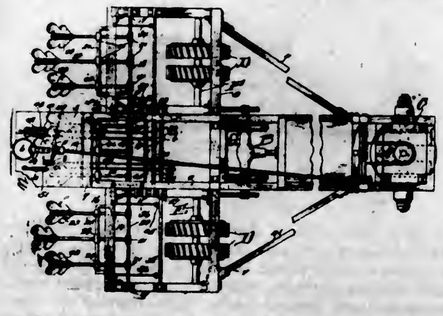
1. In a photographic printing apparatus, a support having an opening, a negative and print paper supporting member movably mounted in said opening, and having apertures over which the paper is adapted to be positioned, punch pins carried by the support in line with the apertures, a presser plate hinged to the aforesaid supporting member and having apertures adapted to register with the first-mentioned apertures, and a platen engageable with the support and with the presser plate for moving the supporting member and the presser plate in a direction to force the punch pins through the apertures thereof.

1,353,922. MOTOR-DRIVEN TRACTOR-CULTIVATOR. EARL S. LUCAS, Randolph, Iowa. Filed Apr. 16, 1919. Serial No. 290,454. 4 Claims. (Cl. 180—21.)



1. In a machine as set forth, a frame provided with bearings, a driving shaft comprising axially alined sections mounted in said bearings, additional depending bearings on the frame in advance of the first bearings, differentially united axially alined driven shaft sections mounted in the last mentioned bearings, a casing housing said differentially united shaft sections and terminating at its opposite ends in stationary brake drum heads, rotatably movable brake drum heads adjacent the first heads and having operative gear connections with the differentially united shaft sections, gear means operatively connecting the outer ends of the differentially united shaft sections and the first shaft sections for transmitting power to the latter, means coöperating with the rotatably movable brake drum heads whereby through the medium of the movable brake drum head, the differentially united shaft sections and the gear means will act to control the first driving shaft sections, and supporting traction drive wheels on the first shaft sections.

1,353,924. CULTIVATOR. EARL S. LUCAS, Randolph, Iowa. Filed Aug. 9, 1919. Serial No. 316,363. 4 Claims. (Cl. 97—34.)



1. In a cultivator, a frame, forward and rear supporting wheels therefor, the rear wheels being adjustable laterally, a plurality of soil working implements, shafting on which said implements are adjustable relatively to the rear supporting wheels, whereby the implements may be positioned to the rear of the rear supporting wheels, or upon either side of the forward supporting wheels, and swingingly mounted means for raising and lowering said implements.

1,353,925. AUTO-TOP. ALFRED E. LYONS, San Jose, Calif. Filed July 8, 1918. Serial No. 243,870. 4 Claims. (Cl. 296—116.)

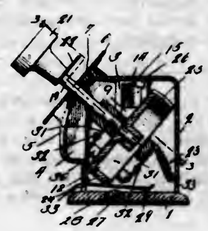
4. In a top prop for autos, the combination with a main bow adapted to be supported by the body, and other bows,

all bows having longitudinal grooves in their limbs; of a runner slidable in the groove of each bow and to which runner another bow is pivoted, a latch on the runner, a keeper on the pivoted bow adapted to be engaged by said



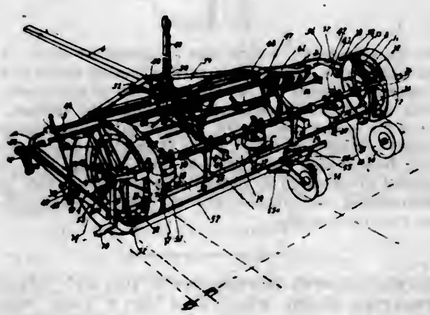
latch when such bow is opened up, and a spring-actuated dog mounted in each bow at a point to lock the runner of the next bow with the latter in position to distend the top.

1,353,926. CHECK-PRINTING MACHINE. THOMAS W. R. MCCABE, Waterbury, Conn., assignor to Charles H. Hasbrouck, Binghamton, N. Y. Filed May 2, 1917. Serial No. 165,902. 5 Claims. (Cl. 197—6.4.)



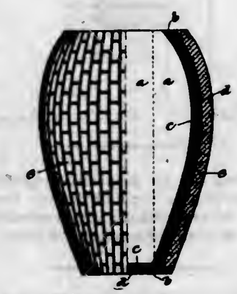
1. A machine of the character described comprising a platen wheel, a printing wheel adapted to be moved in a curved path over the platen wheel, means for retaining the printing wheel in engagement with the platen wheel during a printing operation, means for disengaging the printing wheel from the platen wheel immediately subsequent to the printing operation, and means for retaining the printing wheel out of engagement with the platen wheel during its return movement over the platen wheel to a normal position.

1,353,927. CHECKROW CORN-PLANTER. JOSEPH W. MCNEAL, St. Paul, Minn. Filed Feb. 12, 1918. Serial No. 216,786. 8 Claims. (Cl. 111—25.)



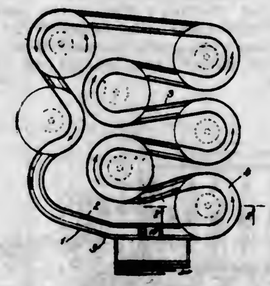
1. In a corn planter of the class described, the combination with the frame and supporting wheels therefor, of a reel rotatable on said frame between said wheels and connectible therewith, seed dispensing devices, having a seed discharge opening, and means including seed guiding devices on said reel to engage said dispensing devices and register with said discharge opening when said reel and wheels are connected and the latter are rotated as and for the purpose specified.

1,353,928. METHOD OF MAKING VASES. MAX MARTIN, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,364. 2 Claims. (Cl. 25—154.)



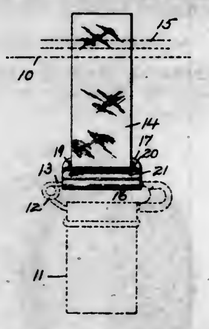
1. The process herein described of making vases which consists in providing a central core of wood consisting of separate detachably connected parts, providing a wire mesh jacket or casing in which said core is inclosed, said jacket or casing being of greater dimensions than said core and said parts being so placed as to form a continuous space between them, then filling in said space with plastic cement worked through the wire mesh jacket or casing and entirely inclosing said wire mesh jacket or casing in said cement, then applying waterproof material to the reinforced cement body thus formed, then inclosing said body and the waterproof material in an outer wall consisting of brick or inlay work, and then removing said core.

1,353,929. AMUSEMENT APPARATUS. HYLA FREDERICK MAYNES, Gaines, Pa. Filed Mar. 9, 1920. Serial No. 364,468. 5 Claims. (Cl. 104—64.)



1. An amusement apparatus comprising a guideway having reverse curve or turns, a car adapted to move along said guideway and projectors situated at the turns of the guideway designed to impart motion to the car and project it from turn to turn in an irregular and jerky fashion.

1,353,930. PIN-RECEIVING TAB FOR GARMENTS. HERMAN MERKEL, East Orange, and JACOB BUECHER, Newark, N. J. Filed Feb. 16, 1920. Serial No. 359,063. 4 Claims. (Cl. 24—226.)



1. A pin receiving tab for garments comprising a strip of fabric, a tubular clip having a slitted ear to receive the strip, and means for insuring the engagement of the strip for its entire width with the edge of the slit.

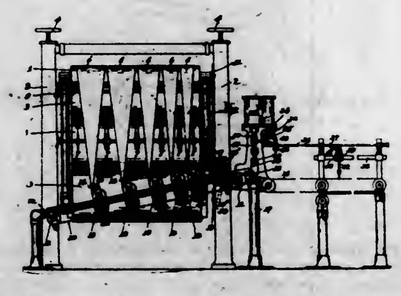
1,353,931. ART OF GROWING PLANTS. ELLIS MILLER, New York, N. Y. Filed June 29, 1918, Serial No. 242,525. Renewed Aug. 12, 1920. Serial No. 403,150. 6 Claims. (Cl. 71—93.)

1. The improvement in the art of preparing a radioactive composition for plant growth which comprises heating and then grinding the tailings of crude carnotite ore, and finally mixing with inert material.

1,353,932. PROCESS OF FORMING ARTIFICIAL PEARLS. TATSUHEI MISE, Watakano, Japan, assignor to Dai-Nippon Enkei Shinju Kabushiki Kwaisha, Shimo-Ochiai-Mura, Toyotama-Gun, Tokyo-Fu, Japan. Filed May 7, 1919. Serial No. 295,506. 3 Claims. (Cl. 252.)

1. A process of forming pearls consisting of first opening the shell of the pearl producing mollusk, then opening the muscle of the foot of the mollusk, then forming a sack-like space at the point where the internal organ is connected with the mantle and finally inserting a kernel through the opening and into the space provided.

1,353,933. APPARATUS FOR LAYING OR FORMING TIRE-TREADS. HOWARD I. MORRIS, Los Angeles, Calif., assignor, by direct and mesne assignments, to Morris Tire Machinery Company, a Corporation of California. Filed July 17, 1917. Serial No. 181,080. 13 Claims. (Cl. 154—1.)



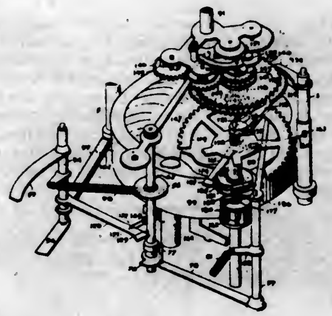
1. In combination, a traveling belt conveyer for supporting and carrying thin heated plastic strips of rubber, a second traveling conveyer, a series of pressure rolls between which said second conveyer travels, and means for feeding said strips of rubber from said first conveyer to the surface of the second conveyer and between one pressure roll of each pair and the conveyer.

1,353,934. METHOD AND MACHINE FOR MAKING THE RUBBER ELEMENTS FOR TIRES, LAMINATED TIRE-TREADS, &c. HOWARD I. MORRIS, Los Angeles, Calif., assignor, by direct and mesne assignments, to Morris Tire Machinery Company, a Corporation of California. Filed Dec. 29, 1917. Serial No. 209,386. 19 Claims. (Cl. 154—0.)



1. A plurality of calenders for rolling strips of rubber, a conveyer passing successively under said calenders, and pressure means for plying the strips as delivered to said conveyer from said calenders.

1,353,935. ELECTRICALLY WOUND AND SYNCHRONIZED STRIKING-CLOCK. ANTON R. NELSON, Susanville, Calif., assignor of one-half to Isaac Knoch, Susanville, Calif., and one one-hundredth to Francis M. Wright, San Francisco, Calif. Filed Mar. 2, 1917. Serial No. 152,043. 1 Claim. (Cl. 58—35.)

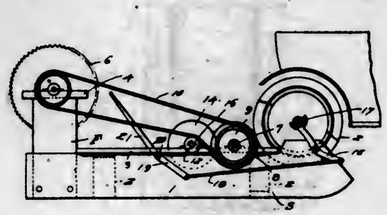


In an electrically wound and synchronized clock, the combination of a spring for imparting motion to the clock mechanism, a spring for imparting motion to the synchronizing mechanism, a motor for winding said springs, a switch for closing the circuit through said motor, means whereby a temporary interruption of current through said motor synchronizes the clock, and further means whereby a second interruption of current will not again affect the synchronizing mechanism until the next predetermined time for synchronizing.

1,353,936. POWER-TRANSMISSION DEVICE. RUDOLF PRANTNER, Wright, Minn. Filed Mar. 8, 1920. Serial No. 363,954. 2 Claims. (Cl. 74—106.)

1. A device of the class described comprising a supporting structure, a drive shaft carried thereby, a driven shaft operatively engaged with the drive shaft, a counter shaft carried by the supporting structure and in driving

connection with the operative connection between the drive shaft and the driven shaft, a balance wheel carried

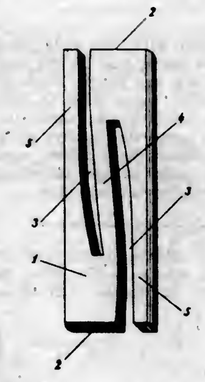


by the counter shaft, and means carried by the drive shaft for engagement with the driving wheel of a motor driven vehicle.

1,353,937. METHOD OF DRYING VARNISHED (PATENT) LEATHER. HEINRICH SCHULZ, Worms, Germany, assignor to Firm Cornelius Heyl, Worms, Germany. Filed Dec. 12, 1916. Serial No. 136,410. 3 Claims. (Cl. 34—24.)

3. The herein-described method of drying varnished leather, which consists in subjecting the leather to the simultaneous action of ultraviolet rays and a gaseous derivative of ammonia.

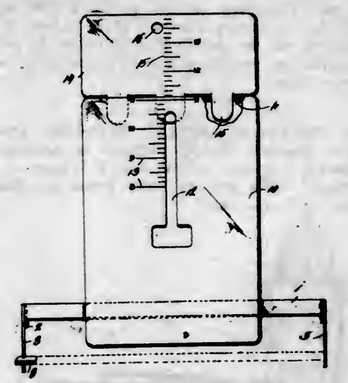
1,353,938. ATHLETIC EXERCISER. WILHELM SCHURR, Langnau-on-the-Albis, Switzerland. Filed June 2, 1919. Serial No. 301,291. 1 Claim. (Cl. 46—69.)



An elastic athletic exerciser made of a single piece of oblong wood, a shoulder at each end thereof, a longitudinal prong extending from each shoulder in opposite directions, and a longitudinal elastic bridge uniting said shoulders.

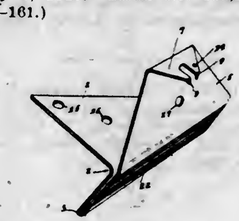
1,353,939. TYPEWRITER ATTACHMENT. EMORY SUDLER and CHARLES E. SUDLER, New York, N. Y. Filed Dec. 29, 1919. Serial No. 348,018. 4 Claims. (Cl. 197—189.)

1. A typewriter attachment including a plate having indicia thereof to visualize the position of paper in the typewriter, a second plate carried by the first plate and provided with indicia in serial with the indicia on the first plate to indicate the position of the typewriter paper when the latter is of such length as to extend beyond



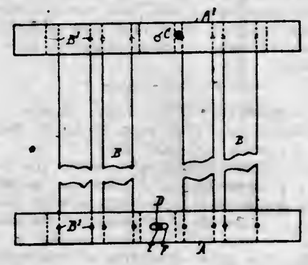
the outer terminal of the first plate, and means for associating said plates with the typewriter.

1,353,940. COMBINED CLAMP AND WHEEL-GUARD FOR FARM-WAGONS. LEVI P. WELLS, Gering, Nebr. Filed July 2, 1919. Serial No. 308,141. 4 Claims. (Cl. 280—161.)



1. Means for preventing the wearing of a hole in a wagon box by the turning of a front wheel, comprising a guard of hard sheet material, including horizontal and vertical portions enabling application to the edge of the wagon box at the place of wear, and a portion bent upon itself and away from the aforesaid portions to provide a resilient extra thickness at the place of contact of the wheel.

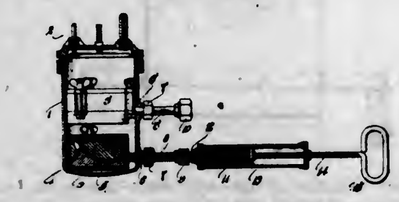
1,353,941. FOURDRINIER PAPER-MAKING MACHINE. WILLIAM ALEXANDER AITKEN, Gravesend, England. Filed July 22, 1918. Serial No. 246,212. 1 Claim. (Cl. 92—51.)



In a paper-making machine having movable suction-boxes beneath the Fourdrinier web and flush with the top of their supporting standards, the combination with

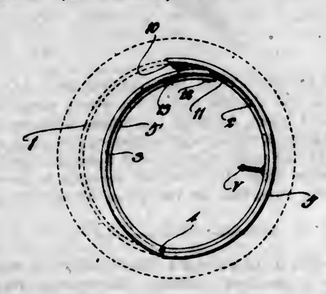
a limited plurality of said boxes of a centrally pivoted carrier plate at the one end and a centrally guided carrier plate at the other end thereof and longitudinally disposed on said standards, means for fixing the ends of said boxes, to the carrier plates, a pivot in one of said plates between the two middle suction-boxes, an arcuate slot and guide pin positioned opposite said pivot in the other carrier plate.

1,353,942. DENTAL FLASK AND CHARGER. DELBERT A. AKIN, Spokane, Wash., assignor of one-third to John Meckay and one-third to Earl F. Fuller, of Spokane, Wash. Filed Feb. 19, 1920. Serial No. 359,918. 3 Claims. (Cl. 18—33.)



1. The combination with the vulcanizer adapted to receive steam pressure as a heating medium and the flask having a matrix therein, of a charging pipe, passed through the wall of the vulcanizer and entered into said flask to open into the matrix, said pipe having a socket end, and a charging device having a head to engage said socket in operative position for flowing plastic material into the matrix.

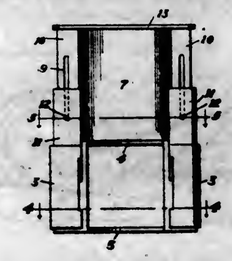
1,353,943. DEMOUNTABLE RIM. ALBERT L. ANDERSON, Spokane, Wash., assignor of one-fourth to James F. Mazna and one-fourth to George B. Shafer, Spokane, Wash. Filed Mar. 24, 1920. Serial No. 368,279. 2 Claims. (Cl. 301—32.)



1. The combination in a demountable rim of a long and a shorter hinged section each fashioned with a transverse integral hinge sleeve, and each sleeve formed with an offset hinge pin, said offset pins each projecting into the complementary opposed hinge sleeve to form alined pivot members.

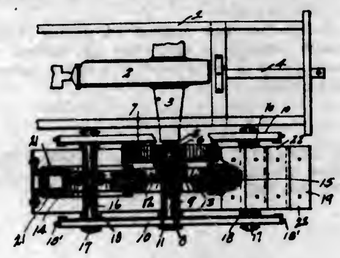
1,353,944. TOBACCO-BITER. LOYD ELDEN ASHENFELTER, Atlanta, Ga. Filed Sept. 11, 1919. Serial No. 323,086. 3 Claims. (Cl. 131—38.)

1. A tobacco biter comprising a holder for the plug consisting of a frame having a body and laterally extending jaws for receiving the plug between them, the body being open to permit of inspection of the plug, said body having at each side of the opening a channel shaped guide, each guide consisting of telescoping sections having a limited movement away from each other, a transversely curved blade having outwardly bent edges to engage within the guides, said blade and guides having means for limiting their movement with respect to each other, a plate serving as a finger piece secured to the top of the blade and extending beyond the blade away from



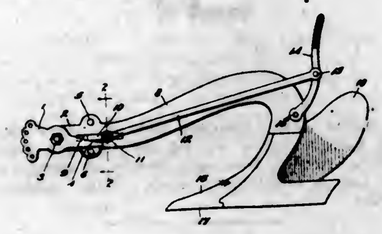
the body of the plug receiving frame, said plate having a depending spike for impaling the plug during and after the cutting.

1,353,946. TRACTOR-MACHINE. ARTHUR R. BLEWETT, Portland, Oreg., assignor to Blewett Tractor Company, Tacoma, Wash. Filed Apr. 8, 1919. Serial No. 288,450. 4 Claims. (Cl. 180—9.1.)



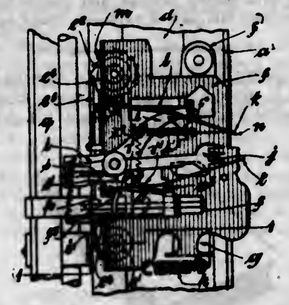
1. The combination with the main frame, the axle shaft and its driven pinion and central rigid supporting axle, a hub on the axle and journal boxes at the ends of the hub, of a tractor frame fixed on said boxes and oscillatable on the axle, bearing boxes at the ends of the frame, and end supporting pulleys journaled in said bearing boxes, an intermediate driving sprocket carried by the hub, and a flexible driving belt supported on the end pulleys and driven by said sprocket.

1,353,946. CLEVIS ADJUSTMENT FOR PLOWS. ALFRED A. BRYANT, Easley, S. C. Filed May 10, 1920. Serial No. 380,858. 3 Claims. (Cl. 97—4.)



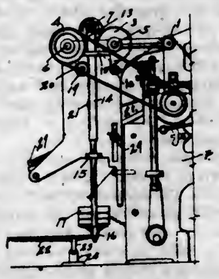
1. In a plow the combination of a beam having a longitudinally disposed slot; a block adapted to reciprocate longitudinally of said beam in said slot; a clevis pivoted to said beam and having an extension adapted to be engaged and moved by said block; a lever; and connections between said lever and block for moving the latter, substantially as described.

1,353,947. WARP-THREAD AND LIKE SELECTING AND SEPARATING MECHANISM. WILLIAM DOBSON, Blackburn, England. Filed Feb. 15, 1917. Serial No. 148,899. 7 Claims. (Cl. 139—94.)



1. In warp thread and like selecting and separating apparatus, a carriage, a guide bar along which the carriage may move and means for supporting the bar, mechanism upon the carriage for traversing the carriage along the bar, and a feeler upon the carriage for controlling the traverse of the carriage, a needle-like and forwardly and diagonally movable selector hook upon said carriage, separator mechanism also upon said carriage adapted to receive the selected threads from the selector hook and hold a series of them spaced apart, actuating mechanism upon the carriage to actuate the selector hook and separator mechanism and the said traversing mechanism, a continuously running prime mover for operating the said actuating mechanism, a mechanical make and break device between the prime mover and the said actuating mechanism, through which the power is transmitted, and a further feeler also upon the carriage which is acted upon by the separated threads and which controls the mechanical make-and-break device, as herein set forth.

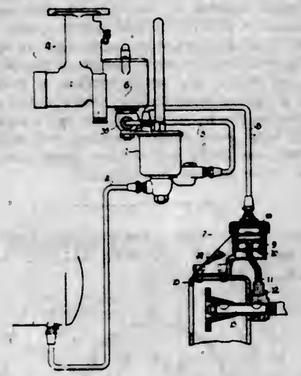
1,353,948. WINDING MECHANISM FOR PRINTING-PRESSES. ORVILLE VINCENT DUTRO and ARTHUR S. BURROUGHS, Spokane, Wash. Filed Apr. 8, 1919. Serial No. 288,546. 3 Claims. (Cl. 242—66.)



1. The combination with a compensating frame comprising side bars vertically movable, of a pair of supporting rolls, one of which is positively driven, a winding roll having trunnions and resting upon the supporting rolls, and said side bars detachably suspended from said trunnions, a weighted device connecting the side bars at their lower ends, and means for lifting said device to free the winding roll from the supporting rolls.

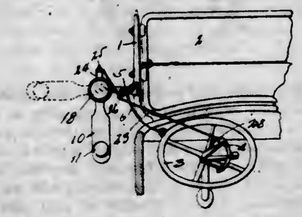
1,353,949. FUEL-FEED SYSTEM. FRANCIS E. EDWARDS, Chicago, Ill., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 13, 1918. Serial No. 253,972. 5 Claims. (Cl. 158—36.)

1. In combination, an air chamber having a movable wall for creating impulses of alternate compression and rarefaction, a pumping chamber communicating with said air chamber, said pumping chamber having inlet and discharge valves, and a closed auxiliary air chamber having



means for permitting communication with said first named air chamber, said means being controlled by the level of liquid in the pumping chamber.

1,353,950. AUTOMOBILE-SIGNAL. OTA FREELS, Spokane, Wash. Filed May 12, 1919. Serial No. 296,454. 2 Claims. (Cl. 116—54.)



1. The combination with the supporting post, of an adjustable bracket arm having circumferential oppositely disposed slots, a bearing bushing having a set screw and mounted on the bracket arm, a signal arm provided with a pivot shaft passed through the slotted bracket arm and through said bearing bushing, and means for swinging said signal arm on its pivot as described.

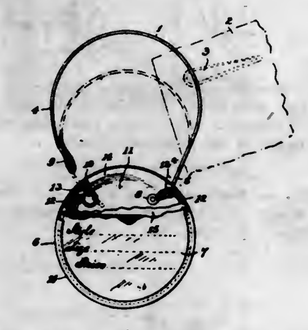
1,353,951. LUBRICATOR. ELMER FROST, Muskegon Heights, Mich. Filed Oct. 13, 1919. Serial No. 330,465. 2 Claims. (Cl. 184—76.)



2. A lubricator comprising a cup, an outlet member for said cup, said outlet member having a chamber, said chamber including a valve seat in one end, a bushing adjustably mounted in the chamber and forming the other end

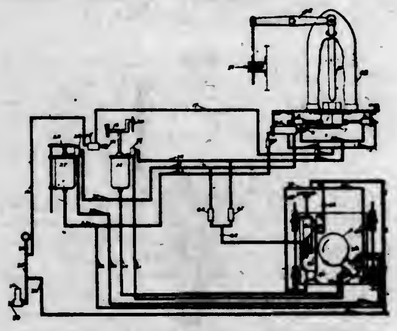
thereof, said bushing having a valve seat in its lower surface and having a recess at the base of the valve seat and passages communicating with the recess and the cup, manually operable means carried by the bushing for adjusting said bushing to increase or decrease the length of the chamber, a valve in said chamber, said valve having a plurality of grooves, the upper end of said valve cooperating with the recessed portion of the bushing to provide an oil pocket, the lower portion of said valve being reduced, a spring surrounding said reduced portion, said spring urging the upper end of the valve into engagement with the valve seat of the bushing, and potential means for urging the lower end of the valve into engagement with the valve seat of the chamber.

1,353,952. TAG. BENJAMIN GORDON, New York, N. Y. Filed Dec. 26, 1919. Serial No. 347,572. 1 Claim. (Cl. 40—20.)



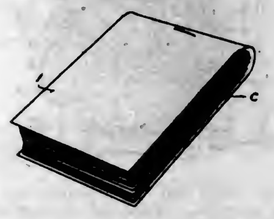
A non-detachable tag comprising a lock casing consisting of a metallic capsule having a plurality of peripheral apertures, a metallic closure secured thereto, and a flexible metallic attaching member coiled between said capsule and closure with a retaining portion provided with a detent eye opposite one of said apertures and an attaching portion extending through another of said apertures, the free end of said attaching member having a locking bend to pass into said detent eye through the adjacent aperture and to be engaged in locking relation therewith.

1,353,953. APPARATUS FOR GATHERING MOLTEN GLASS. JOSEPH B. GRAHAM, Evansville, Ind., assignor to The Owens Bottle Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 18, 1917. Serial No. 143,002. 7 Claims. (Cl. 49—55.)



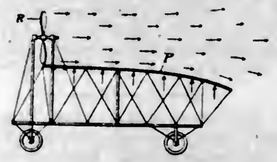
6. The combination with means for establishing a flow of glass, of a two part receptacle to temporarily support the glass as it accumulates therein to form a gather, a cut-off device forming a closure for the bottom of said receptacle, a pneumatic motor to actuate said receptacle for discharging the gather, a pneumatic motor for operating the cut-off device, separate pneumatic timing devices for said motors, valves controlling the supply of air pressure for setting said timing devices, and means to cause the actuation of said last named valves in timed relation.

1,353,954. COMBINED TOWEL AND ANTISEPTIC PAD. THOMAS B. HENRY, Northville, Mich. Filed May 23, 1919. Serial No. 299,201. 1 Claim. (Cl. 206—57.)



A pad comprising a series of small sheets of dimensions which will fit within a coat-pocket, said sheets being impregnated with a sterilising or cleansing agent, a separate series of larger towel or wiper sheets folded to the same dimensions as the smaller sheets and bound together therewith, and a protecting cover for the pad.

1,353,955. APPARATUS FOR AERIAL NAVIGATION. CARL HERING, Philadelphia, Pa. Filed Oct. 30, 1915. Serial No. 58,775. 18 Claims. (Cl. 244—18.)



1. The combination with an aeroplane comprising a rotary power driven propeller and a wing or plane propelled through the atmosphere by said propeller and located behind said propeller, of an auxiliary plane or wing disposed below and closely adjacent to the air current produced by said propeller, whereby said auxiliary plane or wing exerts a lifting force separate and distinct from lifting force produced by motion of translation of the aeroplane through space.

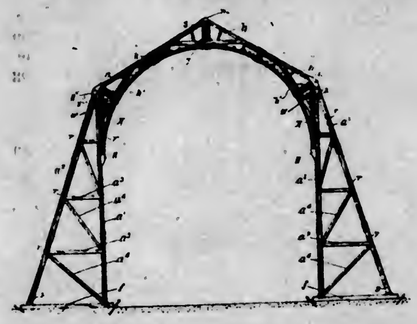
2. The combination with an aeroplane comprising a rotary power driven propeller and a wing or plane propelled through the atmosphere by said propeller and located behind said propeller, of an auxiliary plane or wing disposed below and closely adjacent to the air current produced by said propeller, whereby said auxiliary plane or wing exerts a lifting force separate and distinct from lifting force produced by motion of translation of the aeroplane through space, the velocity of the air current produced by said propeller with respect to said auxiliary plane or wing exceeding the velocity of the propulsion of the aeroplane through the atmosphere.

3. The combination with an aeroplane comprising a rotary power driven propeller and a wing or plane behind the same and propelled through the atmosphere thereby, of an auxiliary plane or wing disposed below and closely adjacent said propeller and extending rearwardly therefrom, whereby the current of air produced by said propeller reduces the pressure on the upper side of said auxiliary plane or wing and effects a resultant lifting force.

4. The combination with an aeroplane comprising rotary power driven air propelling means and wings or planes propelled through the atmosphere thereby and extending on both sides and to the rear thereof, of an auxiliary plane od wing disposed below and closely adjacent said propelling means and extending rearwardly therefrom, whereby the air current produced by said propeller causes said auxiliary plane or wing to exert a resultant lifting force separate and distinct from lifting force produced by motion of translation of the aeroplane through space.

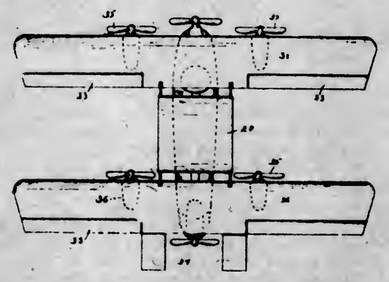
5. The combination with an aeroplane comprising rotary power-driven air-propelling means and wings or planes propelled through the atmosphere thereby and extending on both sides thereof, of an auxiliary plane or wing disposed below and closely adjacent said propelling means and extending rearwardly therefrom, whereby the air current produced by said propeller causes said auxiliary plane or wing to exert a lifting force separate and distinct from lifting force produced by motion of translation of the aeroplane through space, said auxiliary plane or wing being inclined downwardly toward the rear.

1,353,956. SHED FOR AIRSHIPS, AEROPLANES, AND THE LIKE. GASTON HERVIEU and PIERRE MARIE GEORGES MARÉCHAL, London, England. Filed June 19, 1918. Serial No. 240,868. 5 Claims. (Cl. 20—1.)



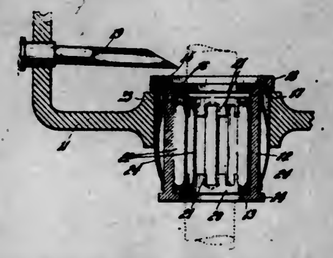
1. In a shed for airships, aeroplanes, and the like comprising in combination a series of principal constructional units consisting of a roof portion supported by triangular stanchions at each side, stretchers between said units located at suitable intervals apart, at the central ridge along the rafters, at the eaves and up the stanchions, bridges between said units located at the eaves and beneath the central ridge, covering means for said structure, boards secured to the bridges located at the eaves, and means on said boards for supporting the covering means.

1,353,957. AEROPLANE. LEO HINZ, Perth Amboy, N. J., assignor of one-half to Friedrick Martin, New York, N. Y. Filed Sept. 22, 1919. Serial No. 325,384. 5 Claims. (Cl. 244—14.)



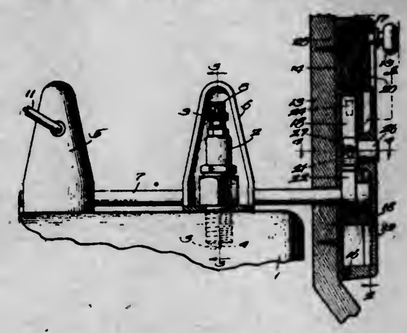
1. An aeroplane comprising a body of stream-line construction both in cross-section and plan view, steering elements of stream-line construction in cross-section and plan view, and fore and aft propellers with power elements of stream-line construction, the said steering elements being pivoted in the plane of the center of gravity.

1,353,958. YIELDING UPPER BEARING FOR CENTRIFUGAL SEPARATORS. GEORGE W. HOFMANN and WILLIAM R. MURAT, Milwaukee, Wis., assignors to Standard Separator Company, Milwaukee, Wis., a Corporation of New Jersey. Filed Nov. 18, 1916, Serial No. 132,026. Renewed Mar. 1, 1920. Serial No. 362,550. 6 Claims. (Cl. 64—48.)



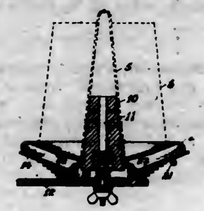
5. An upper bearing for centrifugal separator spindles, comprising a yieldably mounted sleeve for surrounding the spindle, vertical rollers therein to bear against the spindle and the walls of the sleeve respectively, an internal flange at the lower end of the sleeve, a lower spacer ring resting on the flange and provided with sockets in its upper part in which the lower ends of the rollers are loosely seated, a similar spacer ring with its sockets in its lower part and loosely fitting on the upper ends of the rollers, and a retaining ring fitting in the upper end of the sleeve.

1,353,959. GUARDING MECHANISM FOR SPARK-PLUGS OF INTERNAL-COMBUSTION ENGINES. CHARLES T. HOLST, Chicago, Ill., assignor of one-half to William J. Cullerton, Chicago, Ill. Filed Oct. 13, 1919. Serial No. 330,341. 9 Claims. (Cl. 123—146.5.)



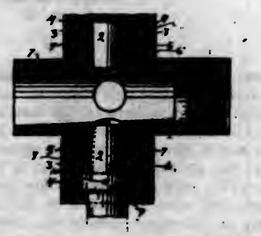
1. An internal combustion engine having a spark plug carried by the engine and having sparking electrodes within the explosive gas receiving portion of the engine; of a container for the spark plug mounted in connection with the engine and formed with a swinging body portion and a complemental closure portion whereby the spark plug may be either inclosed or made accessible; a lock for holding the swinging body portion in closed position; and a plurality of contacts carried by the swinging body portion and of differing lengths to be engageable, when the container is closed, with the current conductor upon the outer end of one of a plurality of spark plugs of differing lengths, employed as the aforesaid spark plug, said contacts being in spark plug short circuiting connection.

1,353,960. COP-MOUNTING. WILLIAM A. HOUCK, Reading, Pa. Filed Nov. 7, 1919. Serial No. 336,304. 5 Claims. (Cl. 242—141.)



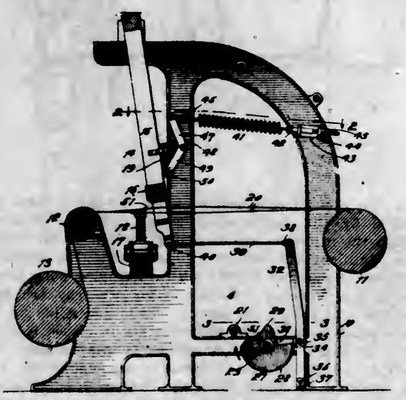
5. In combination with a base plate, a fixed cop support, a spring-pressed thread-supporting disk movable thereon, and a cop-edge contacting facing on said disk adapted to snugly encircle the cop quill.

1,353,961. AEROPLANE-TRACTOR. JAMES INGELLS, Muskegon, Mich. Filed May 3, 1919. Serial No. 294,583. 5 Claims. (Cl. 170—173.)



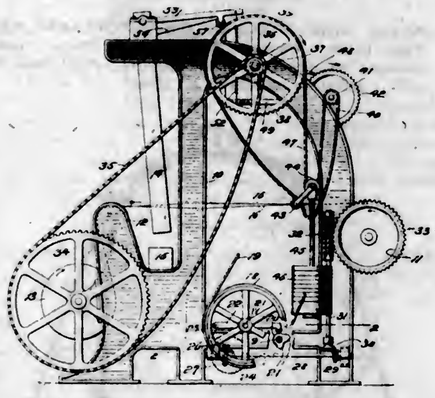
1. In an aeroplane tractor, a steel hub for use upon an aeroplane motor shaft, cylindrical arms radiating from said hub and screw threaded upon their outer peripheries, tractor blades fitted at the hub end to closely fit within the arms, a collar removably mounted near the hub end of each blade and adapted to withstand extreme pressure longitudinally of the blade, and a joint nut fitted to screw upon each arm and engage the collars and hold the blades firmly in place.

1,353,962. LOOM. JOSEPH JOULE and CHARLES ALBERT COUPS, Belleville, N. J., assignors to Eastwood Wire Manufacturing Company, Belleville, N. J., a Corporation of New Jersey. Filed Mar. 10, 1916. Serial No. 83,221. 4 Claims. (Cl. 139—67.)



2. In a loom, in combination, a warp-beam, a cloth-beam, a lay and means for operating and controlling the movements of the lay comprising springs secured at one end to the loom frame, pivoted two-armed levers supported from the sides of the loom-frame and to which the other ends of the springs are connected, cams on the side members of the lay engaged by the free ends of said levers for forcing the lay forwardly, said springs being under tension, and means for drawing the lay to its rear position and controlling the forward movements of the lay under the force of said springs.

1,353,963. LOOM. JOSEPH JOULE and CHARLES ALBERT COUPS, Belleville, N. J., assignors to Eastwood Wire Manufacturing Company, Belleville, N. J., a Corporation of New Jersey. Filed Mar. 4, 1916, Serial No. 82,028. Renewed Apr. 30, 1920. Serial No. 378,011. 8 Claims. (Cl. 139—30.)



4. In a loom, in combination, a warp-beam, a cloth-beam, a lay, means for rotating the warp-beam to feed the warp wires, a weight, means suspending said weight and connected with the cloth beam to wind the cloth thereon and tension the warp stranda, and means operable by the lay for maintaining the weight substantially in a given position, the means suspending the weight comprising a sprocket chain and sprocket wheels upon which the chain is mounted and in a loop of which chain the weight is held suspended, and said chain being adapted to travel in one end portion in a direction to permit the weight to descend slightly on the rotary motion of the cloth beam, and the means for maintaining the weight substantially in a given position being a pawl arm engaging the shaft of the sprocket wheel at the other end portion of the said chain and a crank arm connected with the lay and having a flexible connection with said pawl arm, whereby on the movement of the lay in one direction, said crank arm may actuate said pawl arm to effect the upward travel of a portion of said chain and thereby elevate the weight to the extent that it had previously descended.

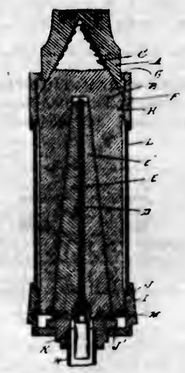
1,353,964. AUTOMOBILE TURN-INDICATING DEVICE. JULIAN KAZIENKO, Rosebank, N. Y. Filed Jan. 13, 1920. Serial No. 351,195. 3 Claims. (Cl. 116—54.)

1. An automobile signaling device comprising a hollow standard, a pair of arms hinged to the upper end thereof, the lower end of said standard being vertically slotted on three sides, a pair of plates disposed within the standard adjacent opposite slotted sides thereof, necks on said plates projecting through the adjacent slots in the standard, pedal members fixed on said necks and bearing slidably on the outer surface of the standard, projections on said plates, a third plate disposed in the standard adjacent the third slotted side thereof and resting on the said projections, a neck on said third plate projecting through the adjacent slot in the standard, a pedal member fixed on



said neck and bearing slidably on the outer surface of the standard, and operative connections between the first mentioned pair of plates and the said arms.

1,353,965. ELECTRICALLY-HEATED TOOL. FRANK KUHN, LAWRENCE H. THOMAS, and JULES G. SPIESS, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed May 27, 1920. Serial No. 384,512. 5 Claims. (Cl. 219—26.)



1. The combination with a tool to be heated, of a heat-conducting body in alinement with said tool and having a surface parallel to the surface on said tool, said body being provided with a wedge-shaped longitudinally extending recess, a heating element in said recess, a wedge member also in said recess for clamping said heating element, and longitudinally adjustable means connecting said wedge member and tool to simultaneously clamp said parallel surfaces of the tool and body in contact with each other and the heating element in heat conducting contact with said body.

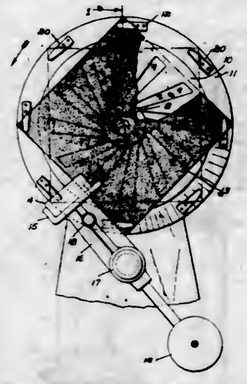
1,353,966. SUCTION-HEAD FOR DISK GRINDING-MACHINES. WILLIAM A. LORENZ, Hartford, Conn. Filed Oct. 29, 1919. Serial No. 334,203. 8 Claims. (Cl. 51—13.)

1. A suction head for a disk grinding or polishing machine, having a central opening and channels leading outwardly therefrom to different distances from the central opening, and a valve adjustably mounted on the head and controlling communication between said central opening and said channels, whereby communication may be



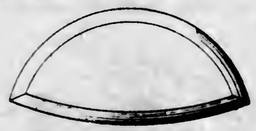
established between the central opening and all of the channels or only a part of the channels.

1,353,967. DISK GRINDING-MACHINE. WILLIAM A. LORENZ, Hartford, Conn. Filed Oct. 29, 1919. Serial No. 334,204. 4 Claims. (Cl. 51—13.)



1. A grinding or polishing machine having a rotatable shaft, a head having a working face containing recesses and an imperforate rim that extends below the plane of said working face, means whereby air may be exhausted from the recesses in the head back of the central portion of a square abrasive sheet placed on the working face thereof, and means on said depressed rim of the head for engaging and holding the corners of said abrasive sheet below the plane of the working face of the head.

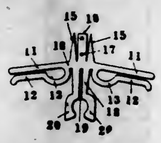
1,353,968. SHOE-STIFFENER. JAMES L. MCCLELLAN, Brookline, Mass. Filed Oct. 11, 1919. Serial No. 329,935. 5 Claims. (Cl. 91—68.)



Fabric, filled with celluloid-resin.

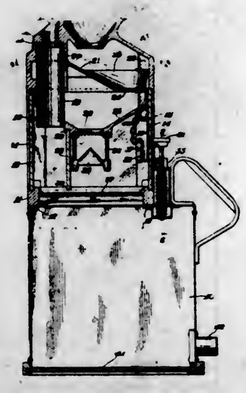
1. As a new article of manufacture, a shoe stiffener consisting of a blank of fibrous absorbent material, and a filling which consists of a celluloid-resin solution diffused throughout the blank, and adapted to be softened by a moderate degree of heat, and to harden by cooling, said filling being non-adherent to a sewing needle, free from liability to stain upper leather and linings, and rendering the blank waterproof, so that the blank may be softened by immersion in hot water without absorbing the water.

1,353,969. COLLAR AND TIE HOLDER. JOSEPH A. MARINER, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,956. 4 Claims. (Cl. 24—56.)



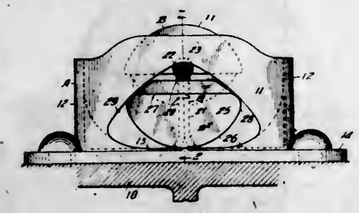
1. A collar and tie holder formed from a single sheet of metal and comprising means for engaging with and holding the flaps of a collar, a hook for securing the holder to a tie, and a clip adapted to engage with a collar button.

1,353,970. FARE-BOX. HOWARD A. MULLETT, Wauwatosa, Wis., assignor to The Milwaukee Electric Railway & Light Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 14, 1918. Serial No. 258,029. 6 Claims. (Cl. 232—7.)



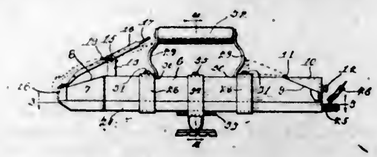
1. In a fare box, the combination of a ticket receiver having a funnel-shaped mouth of soft metal with a contracted throatway having a hardened metal ring at its end of a diameter less than the width of the ticket to require flexing of the ticket as it is forced therethrough, and a conduit below the ring of greater area to allow the ticket to straighten out after being flexed.

1,353,971. SIDE BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Nov. 28, 1919. Serial No. 341,013. 3 Claims. (Cl. 64—64.)



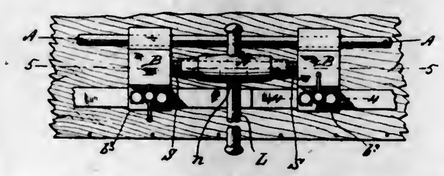
2. In an anti-friction bearing, the combination with a hollow retaining member having spaced side walls provided with openings therein, of an anti-friction element disposed within said retaining member, said element comprising an upper section and a lower section, said sections having concentric peripheral cylindrical bearing surfaces, the axes of which extend lengthwise of the anti-friction element, said sections having coöperating bearing surfaces curved to permit relative adjustment between the sections about an axis extending transversely of said axis of the anti-friction element, said lower section of the anti-friction element having its ends extended and disposed within said openings, the contours of said extended ends and openings being formed to prevent bodily displacement of the anti-friction element as an entirety relatively to the retaining member.

1,353,972. ELECTRIC HEATER FOR SEALING-WAX. ARTHUR J. ORDING, Chicago, Ill. Filed Oct. 3, 1919. Serial No. 328,281. 1 Claim. (Cl. 219—21.)



In a device of the character described, the combination with an electric heater, of a handled container mounted thereon and having a tapered and cross-sectionally angular discharge nozzle at one of its ends and an opening for the insertion of wax at its other end, a door to close the last named opening, a spring actuated lever fulcrumed on the container near its discharging nozzle, a cross-sectionally angular door on said lever to close the opening in said nozzle, a seal mounted on the heater at a distance therefrom and non-heat-conducting material interposed between the seal and heater.

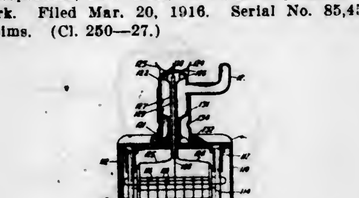
1,353,973. BINDING-STRAP TIGHTENER. SIDNEY J. ORNSTON, New York, N. Y. Filed Sept. 10, 1919. Serial No. 322,808. 4 Claims. (Cl. 254—67.)



1. A strap tightening appliance of the character designated, comprising slidable clamp blocks formed with opposite pitch non-rotatable screw studs, a rotatable turn buckle nut engaging therewith, an alinement rod on which said clamp blocks are slidably mounted, and leverage means for actuating said turn buckle nut, each of said clamp blocks being formed with a stationary clamping jaw and a movable clamping jaw, and with a binding screw for forcing the movable jaw toward the stationary jaw for the purpose of positively gripping and holding the end of a binding strip between said jaws, together with spring tension means arranged to tend constantly to separate said movable clamping jaw from the stationary clamping jaw.

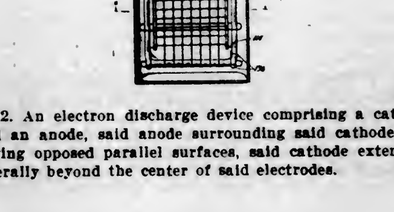
1,353,974. CABINET. BRADLEY S. SMITH, Buffalo, N. Y. Filed Aug. 23, 1915, Serial No. 46,836. Renewed Oct. 25, 1919. Serial No. 333,568. 1 Claim. (Cl. 211—16.)

A device of the kind described, comprising a support and a plurality of bars pivotally secured to said support, each bar having a retainer-member secured thereto and each retainer-member being stamped of sheet metal and being of channel shape in cross section, the ends of each retainer-member being curved upwardly and each member having a spacing projection near each end to hold said



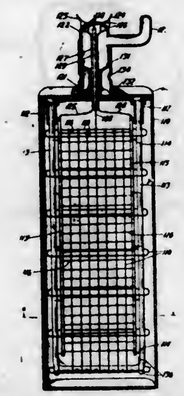
member spaced from said bar, and means for securing said retainer-member at a point between its ends to said bar.

1,353,975. HAY-LOADING DEVICE. HARRY SMITH, Dayton, Ohio. Filed Apr. 2, 1915. Serial No. 18,721. 6 Claims. (Cl. 296—11.)



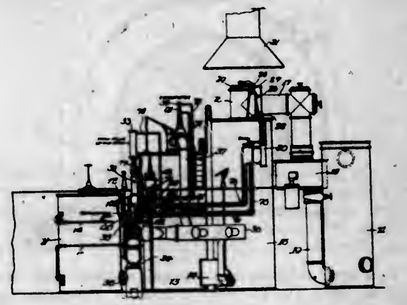
1. The combination with a vehicle bed or rack having longitudinal track bars thereon of a longitudinally movable truck of less length than the vehicle rack or bed comprising a plurality of longitudinally disposed and transversely arranged members so proportioned and connected as to form a flexible structure capable of a warping movement to substantially conform with the movements of the rack or bed as the vehicle travels over uneven ground, and carrying wheels on said truck engaging the track bars of the vehicle rack or bed to facilitate the to and fro movement of the truck thereon.

1,353,976. VACUUM-TUBE DEVICE. ERWIN R. STOEKLE, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 20, 1916. Serial No. 85,457. 39 Claims. (Cl. 250—27.)



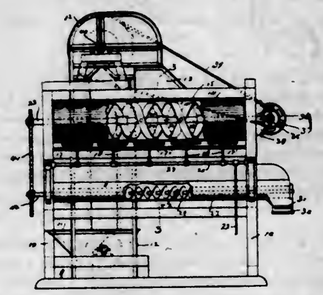
12. An electron discharge device comprising a cathode and an anode, said anode surrounding said cathode and having opposed parallel surfaces, said cathode extending laterally beyond the center of said electrodes.

1,353,977. VALVE-CONTROL MECHANISM. THOMAS W. STONE, Fort Wayne, Ind., assignor to Western Gas Construction Company, Fort Wayne, Ind., a Corporation of Indiana. Filed July 21, 1919. Serial No. 312,294. 16 Claims. (Cl. 48—83.)



1. In a gas making apparatus, in combination: a gas generator; a stack adapted to communicate therewith; a blast pipe leading to said generator; a blast valve controlling the blast to the generator; a stack valve adapted to open the stack; and a unitary manually-controlled means for opening the blast valve and at an automatically determined interval thereafter opening the stack valve, whereby a blast through the generator is maintained prior to the opening of said stack valve; substantially as specified.

1,353,978. FEED-MIXER. LESLIE R. VEATCH, Buffalo, N. Y. Filed July 24, 1919. Serial No. 312,907. 5 Claims. (Cl. 99—2.)



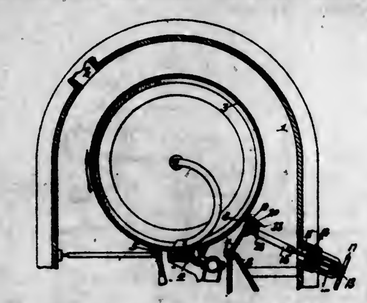
1. The combination in a mixing device, of a mixer comprising a casing, a mixing member having a right-hand helical blade and a left-hand helical blade, said blades being rotatable within the casing and means extending along the entire length of the mixer for instantly dumping the entire contents of the mixer.

3. A mixing device comprising a mixer, means for conducting feed to the mixer, means for instantly dumping the entire contents of the mixer, and a relay bin located beneath the mixer.

1,353,979. COMPOSITION FOR RAZOR OR OTHER STROPS. BASIL E. WISE, Canton, Ohio. Filed Aug. 4, 1919. Serial No. 315,245. 2 Claims. (Cl. 51—1.)

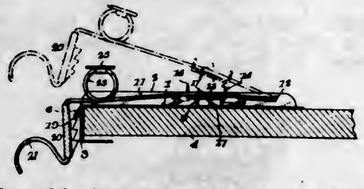
1. A composition for razor strops or the like for honing purposes composed of powdered or pulverized carborundum, powdered or pulverized aloxite, powdered talc and petrolatum and parowax.

1,353,980. DRIER. FREDERICK C. M. YAHN, Buffalo, N. Y., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y., a Corporation of New York. Filed Jan. 27, 1919. Serial No. 273,227. 2 Claims. (Cl. 257—98.)



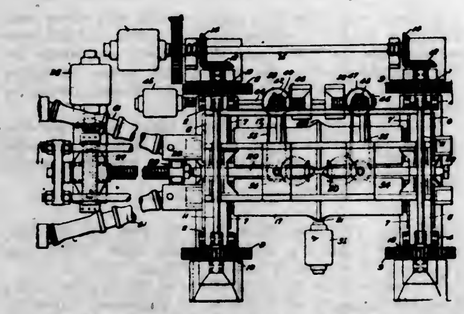
1. A drier comprising a movable member upon the surface of which the material is dried, a scraper for removing the material from said member, and cooling means arranged adjacent to said scraper comprising two attaching plates secured side by side and terminating one above the other, two inclined walls extending laterally from the upper ends of said attaching plates, and a bottom plate connecting the lower ends of said inclined plates, said plates forming walls of a jacket for receiving a cooling fluid.

1,353,981. FISH-CLAMP. CARL A. H. BAHDE, Milwaukee, Wis. Filed June 21, 1919. Serial No. 305,794. 8 Claims. (Cl. 17—10.)



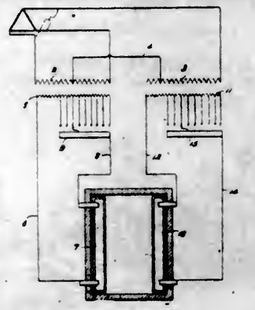
1. In a fish clamp the combination of a supporting member provided at one end with a depending thrust abutment having an inward projection to hook under the edge of a table or shelf, a jaw member pivotally connected with the supporting member, and means for releasably and adjustably fastening the jaw member in clamping relation to the supporting member.

1,353,982. HORIZONTAL SHELL-ROLLING MILL. THADDEUS F. BAILY and FRANK T. COPE, Alliance, Ohio, assignors to The Electric Furnace Company, Alliance, Ohio, a Corporation of Ohio. Filed June 14, 1918. Serial No. 240,057. 5 Claims. (Cl. 80—23.)



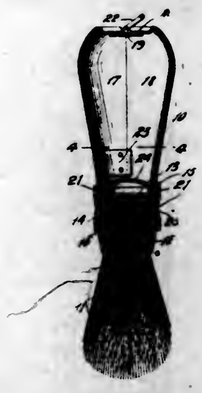
3. A shell rolling mill including a plurality of rotating rolls shaped to form the exterior of two artillery shells, the said rolls being adapted to have placed therebetween a billet of heated steel, means for moving the rolls into engagement with the billet and to roll it into the form of two artillery shells, piercing rods slidably mounted to enter the billet from opposite ends to form cavities therein while the billet is being rotated and means for trimming the shells to the required length.

1,353,983. PHASE-DISTRIBUTION SYSTEM. THADDEUS F. BAILY and FRANK T. COPE, Alliance, Ohio, assignors to The Electric Furnace Company, Alliance, Ohio, a Corporation of Ohio. Filed June 27, 1918. Serial No. 242,165. 2 Claims. (Cl. 204—64.)



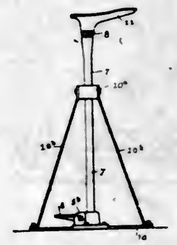
1. In a phase distribution system, the combination with a pair of electric resistance elements, each resistance element provided with a pair of electrodes of a three phase supply line, two phases connected to the primary coil of a three to two phase transformer, the remaining phase connected to the primary coil of a second three to two phase transformer, the primary coils of said transformers being "Scott" connected, a secondary coil coöperating with the primary coil of each transformer and a connection between the electrodes of each resistance element and the adjacent secondary coil.

1,353,984. LATHER-BRUSH. MARCUS B. BEHRMAN, Tompkinsville, N. Y., assignor to American Safety Razor Company, Brooklyn, N. Y., a Corporation of New York. Filed July 22, 1919. Serial No. 312,526. 2 Claims. (Cl. 15—38.)



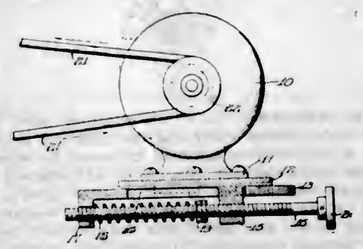
1. A brush of the character described comprising a bunch of bristles, a ferrule engaging the knot of the bunch, an outer ferrule secured thereto, and at its upper and lower edges spaced therefrom to afford annular recesses, and a hollow handle comprising longitudinal sections adapted to be opened one from the other, and at their inner ends formed with cylindrical portions adapted to enter the aforesaid annular recesses, the bunch, with its ferrules, being detachable from the handle and said bunch being adapted to be confined within the handle or arranged to extend therefrom, said outer ferrule in both positions of the bunch serving to bind the sections of the handle in closed relation.

1,353,985. SHOEMAKER'S JACK. LOUIS L. BEAG, Bellingham, Wash. Filed Mar. 30, 1920. Serial No. 369,914. 2 Claims. (Cl. 12—123.)



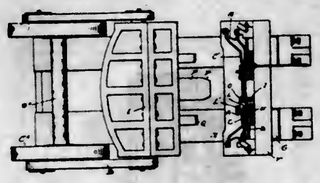
1. In combination, a footstep socket attachable to the floor, a staff stepped for revolution in said socket, an upper bearing revolubly mounting said staff, a shoe-retaining device removably mounted on the upper end of said staff, and a pedal fulcrumed in said footstep and frictionally engageable with said staff.

1,353,986. SUPPORT FOR MOTORS. GOTTFRID BERGENDAHL, Rock Island, Ill., assignor to Rock Island Plow Company, Rock Island, Ill., a Corporation of Illinois. Filed Mar. 4, 1918. Serial No. 220,220. 4 Claims. (Cl. 64—52.)



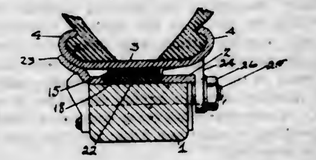
1. In a device of the class described, a prime mover carrying a driving pulley, a belt passing around said pulley, a plate secured to said prime mover and supporting the weight of said prime mover, a flat supporting member on which said plate is adapted to slide, due to the pull exerted by said driving belt, a downwardly extending lug carried by said plate and passing through a slot in said supporting member, a threaded rod passing through said lug, and a spiral spring surrounding said rod and operating to resist movement of said prime mover due to the pull by the belt.

1,353,987. METHOD OF FORMING AXLES. STEPHEN F. BORKEY, Flint, Mich. Filed June 7, 1917. Serial No. 173,414. 10 Claims. (Cl. 29—153.)



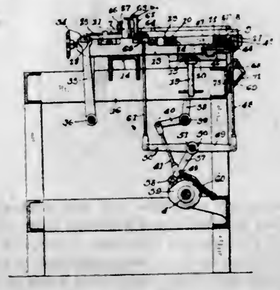
1. The method of forming axles, comprising the successive fashioning of opposite end portions thereof with an intermediate portion of less than the required length, and subsequently stretching the intermediate portion to secure an exact dimension between the fashioned ends.

1,353,988. TRANSVERSELY-SPLIT DEMOUNTABLE RIM. RICHARD S. BRYANT, Cleveland, Ohio, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 6, 1915. Serial No. 770. 13 Claims. (Cl. 152—21.)



1. The combination with a transversely split, demountable wheel-rim; of an upstanding lug on the inner face of said rim near one end thereof; a tongue attached to the other end of said rim and adapted to extend across the split therein, said tongue having an offset portion providing a recess adapted to engage said lug to prevent circumferential separation of such rim-ends; and a locking member arranged to swing on a radial pivot into engagement with said tongue so as to prevent radial separation of such rim-ends.

1,353,989. CONTROL FOR STITCHING-MACHINES. MARTIN CHRISTENSEN, Racine, Wis., assignor to Christensen Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed Nov. 7, 1918. Serial No. 261,562. 7 Claims. (Cl. 1—7.)



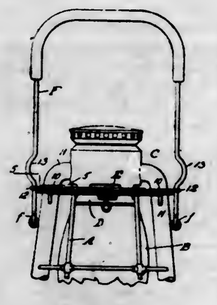
7. In a book-stitching machine having a stapler, the combination with the driving mechanism of the stapler, of a reciprocating member adjacent said mechanism, an extension carried by the mechanism, a latch member carried by said reciprocating member, and means for moving said latch member to engagement with said extension whereby said mechanism will be carried by said member in its reciprocating movement to actuate the stapler.

1,353,990. IGNITION SYSTEM. ALFRED C. DE LORME, East Orange, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Dec. 31, 1918. Serial No. 269,088. 6 Claims. (Cl. 123—184.)



1. In an ignition system for engines using spark plugs for igniting the fuel in its cylinders, an ignition device adapted to produce a spark at any one of said plugs for starting ignition, an independent ignition device adapted to produce a spark at said plug for running ignition, means for electrically connecting the starting ignition device to said plug when the piston in the cylinder containing said plug is in the working stroke and means for electrically connecting the running ignition device to said plug when the said piston is in the compression stroke, said means including a distributer block having two rows of contacts, the contacts of one row being cross connected individually to a corresponding contact one firing interval away in the other row as described.

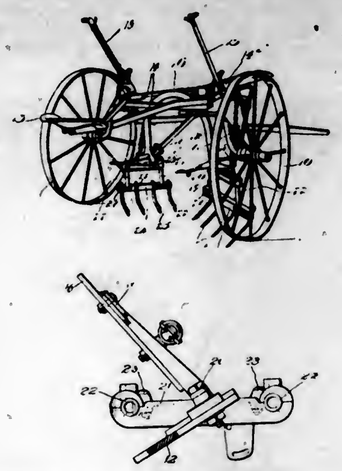
1,353,991. BAIL-HOLDING DEVICE FOR LANTERNS. ERNEST C. EVERETT, New York, N. Y., assignor to R. E. Dietz Company, New York, N. Y. Filed May 8, 1919. Serial No. 295,662. 5 Claims. (Cl. 240—52.)



1. A lantern having a movable top, and a movable carrying bail, said top and bail being provided with coöperating parts rigid with said top and bail respectively and arranged to engage each other in the normal position of the top to hold the bail from movement, said parts being so arranged that they are moved into and out of engagement with each other by relative movements of said top and bail.

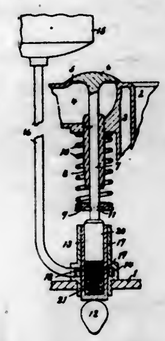
1,353,992. SURFACE CULTIVATOR. JOE FERRIS, Morris, Ill. Filed May 7, 1919. Serial No. 295,421. 4 Claims. (Cl. 97—35.)

1. In a surface cultivator, a gang of cultivator blades consisting of a plurality of blades, means for adjustably supporting the forward ends of each of said blades, whereby, they may be individually angled about a vertical axis



or adjusted about a horizontal axis, and means for adjusting said gang as an entirety about a longitudinal axis.

1,353,993. SELF-ADJUSTING VALVE-LIFTER. ELMER F. FISHER, Brookfield, Mass. Filed Sept. 3, 1919. Serial No. 321,489. 8 Claims. (Cl. 123—90.)

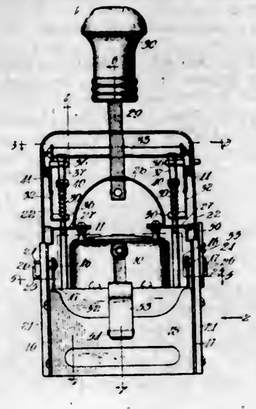


1. The combination, in a self-adjusting valve lifter, with a spring-pressed valve and its stem, and actuating means, of reciprocating members interposed between said actuating means and said stem, one of said members being imperforate and adapted to rest directly upon a fluid column in the other of said members, and means automatically to seal and unseal said last-mentioned member for the purpose respectively of making and breaking said fluid column.

1,353,994. SELF-INKING STAMP. HARRY S. FOLGER and TOBEY ROSS, Chicago, Ill., assignors, by direct and mesne assignments, to R. D. Swisher Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 28, 1915, Serial No. 30,903. Renewed Feb. 24, 1920. Serial No. 360,762. 11 Claims. (Cl. 101—103.)

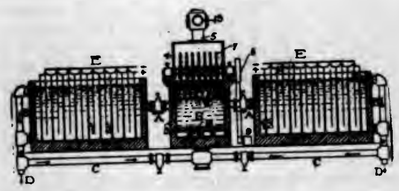
1. In a stamp, a frame providing guides, a die-carrying slide supported in said guides and providing another guide, a handle having a stem slidable in the other guide and arranged to move the die-carrying slide in its guides, an inking device, and means by which the inking device is

operated by the sliding movement of the stem of the handle in the guide of the die-carrying slide.



2. In a stamp, a frame providing guides, a die-carrying slide supporting in said said guides, a handle for moving the slide, an inking device pivoted to and movable with the slide, and means by which a manipulation of the handle causes a movement of the inking device independent of the movement of the slide.

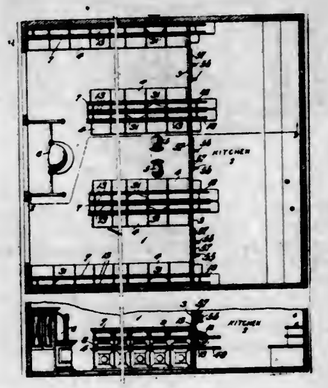
1,353,995. ELECTROLYTIC APPARATUS. WILLIAM E. GREENAWALT, Denver, Colo. Filed Jan. 7, 1919. Serial No. 270,046. 19 Claims. (Cl. 204—5.)



19. In electrolytic apparatus, an electrolyzer, a gasing chamber adapted to contain a relatively large pool of the electrolyte under continuous treatment with a gas and adapted to confine a gas over the pool and having a gas inlet and a gas outlet and an electrolyte inlet and an electrolyte outlet, means for treating the electrolyte in the pool with a reducing gas, means for causing a flow of reduced electrolyte from the gasing chamber to the electrolyzer and of oxidized electrolyte from the electrolyzer to the gasing chamber, and means arranged for regulating the flow of electrolyte and time of treatment so that the oxidation in the electrolyzer and the reduction in the gasing chamber may be maintained within predetermined limits.

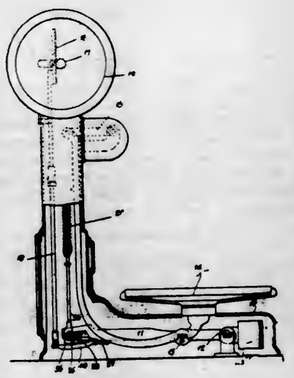
1,353,996. AUTOMATIC RESTAURANT AND VENDING MECHANISM THEREFOR. HUGH A. HALL, Philadelphia, Pa. Filed Mar. 14, 1919. Serial No. 282,708. 11 Claims. (Cl. 186—1.)

1. In a vending machine, means controlled by the intending purchaser to signal to an attendant an order, a tray conveyer to travel between the attendant and the intending purchasers, said tray being removable only at one point in the travel of the conveyer, and means to



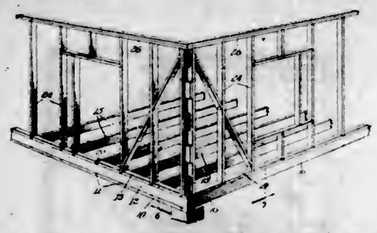
cause a tray on said conveyer to be automatically removed from the conveyer in a position accessible to the person who gave the order.

1,353,997. SCALE AND THERMOSTAT THEREFOR. BERT W. KING and ADAM C. BURKHEISER, Detroit, Mich., assignors to Detroit Automatic Scale Company, Elkhart, Ind., a Corporation of Indiana. Filed Oct. 20, 1916. Serial No. 126,648. 11 Claims. (Cl. 265—69.)



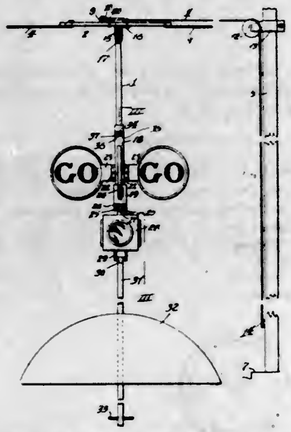
1. In a scale, in combination with a scale lever and a counterbalancing spring therefor, weight indicating mechanism, a draft rod connecting the weight indicating mechanism with the scale lever to actuate the former, a connection between the spring and lever, a thermostat for compensating for the variations in the spring due to changes in temperature, said thermostat being adapted to vary the connection of the spring and lever and being independent of the draft rod, whereby the relation to the draft rod and lever remains unchanged at all temperatures.

1,353,998. BUILDING CONSTRUCTION. EDWARD A. LAUGHLIN, Port Arthur, Tex. Filed Feb. 14, 1919. Serial No. 276,971. 7 Claims. (Cl. 20—0.5.)



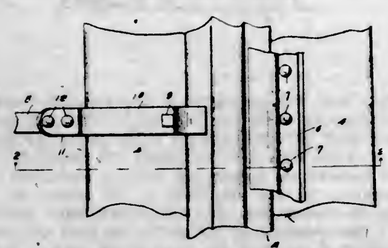
1. In a building construction, walls having plates at top and bottom, notched with dovetailed notches at regular intervals and studs extending between the plates and having dovetailed extensions entering the notches, to be positioned thereby.

1,353,999. STREET-TRAFFIC SIGNAL. THOMAS O. MILLER, San Antonio, Tex. Filed Nov. 26, 1917. Serial No. 204,040. 9 Claims. (Cl. 116—63.)



1. A street traffic signal comprising a turnably mounted vertically suspended member, an indicator turnably mounted on said member, means for operating said member from therebeneath, and other means for operating said member independently from said first mentioned means, located at a distance therefrom.

1,354,000. RAIL SECURING AND SUPPORTING MEANS. DANIEL V. MOTT, Fernie, British Columbia, Canada, assignor to Edward G. Daniels, Fernie, British Columbia, Canada. Filed June 17, 1919. Serial No. 304,972. 4 Claims. (Cl. 238—26.)



3. In rail supporting and securing means, a supporting member of substantially T-shape in cross section, one of the arms of the head of said member being turned upwardly and inwardly to provide a supplemental supporting plate extending across the upper end of the stem of said member and disposed in superposed relation to the head thereof for receiving and supporting the base of the rail.

1,354,001. PROCESS OF MAKING LITHOGRAPHIC POSTERS. GEORGE N. PIPER, Cleveland, Ohio, assignor to The Postergraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 12, 1917. Serial No. 201,617. 5 Claims. (Cl. 95—5.4.)



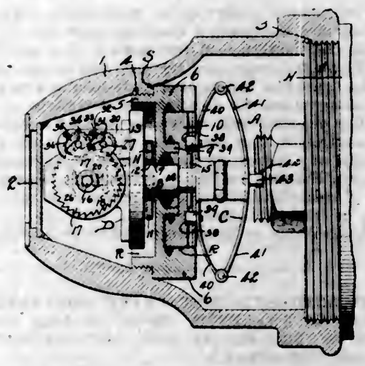
1. The process of making a lithographic poster which comprises producing photographically upon a suitable base the subject of the poster correctly interpreted in dots or grain by projection from a small negative, and treating the base so as to cause the dots or grain to produce a relatively hard image for subsequent inking substantially as described.

1,354,002. AEROPLANE. RALPH R. REED, Morgan Hill, Calif. Filed July 10, 1919. Serial No. 309,801. 4 Claims. (Cl. 104—23.)



1. The combination of an aeroplane provided with cable-guides, and guiding cables passing through said cable-guides and permitting the aeroplane to travel therealong while continually resisting lateral and vertical movements of the aeroplane, each of the cables being supported substantially at the ends of the normal path of travel of the aeroplane, said cables being sufficiently long and elastic to permit them to be deflected a considerable distance laterally and vertically of the said normal path while continually tending to hold the aeroplane parallel to the earth (or level) and return said aeroplane to said normal path.

1,354,003. HUB-ODOMETER. CHARLES DONAT RICHARD, New York, N. Y. Filed June 11, 1917. Serial No. 174,078. 7 Claims. (Cl. 235—95.)

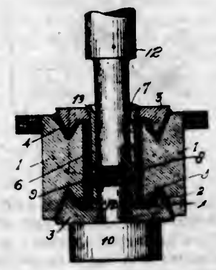


1. A hub odometer including a rotor element, a stator element, a register device connected with said stator element and having an operating wheel, and means for operating said register device including a rock shaft having an operating engagement with said wheel of the register device, a two-way cam device for operating said rock shaft including a swinging arm carried by said shaft and having a cam at its free end, a sleeve mounted at right-angles to said rock shaft and carrying another cam for engaging with said cam on the swinging arm, a gear carried by the end of said sleeve opposite the cam, and a gear carried by the rotor element for meshing with said other gear.

7. A driving mechanism for hub odometer registers including an operating wheel, intermeshed gears having eccentrically mounted pawls, and an oscillating operating shaft connected with one of said gears.

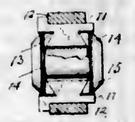
1,354,004. [WITHDRAWN.]

1,354,005. COMMUTATOR AND METHOD OF ASSEMBLING SAME. SEBASTIAN N. SLOAN, Maumee, Ohio, assignor to The Toledo Standard Commutator Co., Toledo, Ohio, a Corporation of Ohio. Filed Mar. 3, 1917. Serial No. 152,239. 4 Claims. (Cl. 171—321.)



2. In a commutator, a series of segments in cylindrical formation, a supporting sleeve extending co-axially with the commutator through the segments, end clamping rings at the ends of the segments and forced together so as to tightly clamp the segments and hold them from axial and radial displacement, insulation between the segments and between the clamping rings and the segments, and between the sleeve and the inner edges of the segments a solidified insulating medium which supports said segments and said insulation from distortion due to the pressure of the clamping rings.

1,354,006. PROCESS OF MAKING COMMUTATORS. SEBASTIAN N. SLOAN, Toledo, Ohio, assignor, by mesne assignments, to The Toledo Standard Commutator Co., Toledo, Ohio, a Corporation of Ohio. Filed May 2, 1918. Serial No. 232,087. 17 Claims. (Cl. 171—321.)



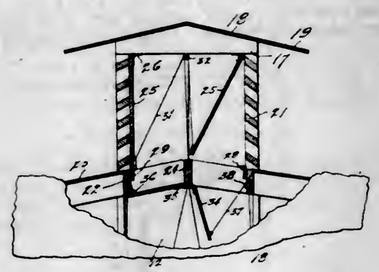
1. The process of making commutators which comprises assembling the segments on the barrel of a segment holder between end clamping rings, subjecting the segments to clamping pressure between the rings, providing between the segments and the barrel of the holder a hard pressure-resisting, insulating support, and subjecting the segments to a second and increased pressure between the clamping rings.

1,354,007. SPOOL OR HOLDER FOR COMMUTATORS. CHARLES A. VAN DUSEN, Toledo, Ohio, assignor, by mesne assignments, to The Toledo Standard Commutator Co., Toledo, Ohio, a Corporation of Ohio. Filed Feb. 24, 1919. Serial No. 278,970. 11 Claims. (Cl. 171—321.)



1. As an article of manufacture, a one-piece holder for the segments of a cylindrical commutator comprising a cylindrical body provided at its ends with integral segment clamping flanges having inner clamping faces normally a sufficient distance apart to permit the segments to be assembled around the body and adapted to be swaged inwardly over the segment tangs by pressure applied axially to opposite ends of the holder.

1,354,008. CURING-HOUSE. ROBERT B. VAUGHAN and RALPH M. LOVE, Dallas, Tex. Filed Feb. 2, 1920. Serial No. 355,611. 3 Claims. (Cl. 98—26.)

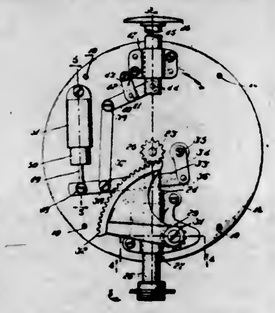


3. The combination with a curing house for sweet potatoes and the like, having a roof, of a pent house arranged upon the roof and extending above the same, said pent house having openings in its sides, a longitudinal beam arranged at the bottom of the pent house and forming two openings at such bottom, vertically swinging dampers arranged upon opposite sides of the longitudinal beam and hinged thereto and adapted to be moved to opened and closed positions, said dampers when closed serving to prevent air in the curing house passing into the lower end of the pent house doors arranged within the pent house and adjacent the sides thereof to cover the same, said doors being hinged at their upper ends and adapted to have their lower ends swung inwardly whereby the doors are angularly arranged and serve as guide means to direct the air to the sides of the pent house, and means to move the dampers and doors.

1,354,009. EMOLLIENT FOR MOTION-PICTURE FILMS. PAUL WERNER, St. Louis, Mo., assignor, by direct and mesne assignments, to Werner Film-Protector Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 7, 1919. Serial No. 288,420. 4 Claims. (Cl. 134—9.)

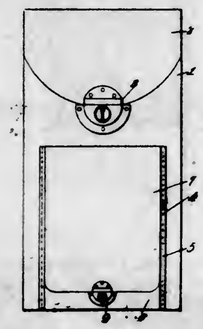
4. An emollient composed substantially of one-half ounce (½ oz.) beeswax, six and one-half ounces (6½ oz.) paraffin wax, one ounce (1 oz.) pulverized camphor, one-half ounce (½ oz.) stearic acid, and seven and one-half ounces (7½ oz.) tallow.

1,354,010. MICROMETER-CALIPER. ANDREW WYZENBEEK, Chicago, and ELISHA JESSE CADY, Oak Park, Ill.; said Wyzenbeek assignor to said Cady. Filed May 24, 1919. Serial No. 299,479. 4 Claims. (Cl. 33—147.)



1. In a calipering device, an anvil, a reciprocating handle, a reciprocating plunger, operating connections between the plunger and handle, a rack-bar on the plunger, means to adjust the bar to different angular positions on the plunger, a scale and revoluble pointer, a shaft carrying the pointer, gear connections between the shaft and rack-bar, and a return-spring for the plunger.

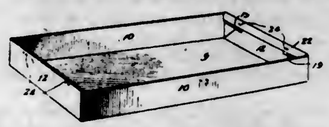
1,354,011. COMBINATION CAMERA AND FILM CASE. ROBERT LE ROY ATWELL, Atlanta, Ga. Filed Nov. 28, 1917. Serial No. 204,425. 1 Claim. (Cl. 190—52.)



The combination with a camera case, of a case, for holding films comprising a back strip of substantial thickness secured on one face of the camera case, sides secured to said face of the camera case and spaced from said back strip to provide channels for the reception of the end flanges of film spools, a flexible member constituting the top and a portion of the front of the film case and secured at one end between the camera case and the back strip of the film case, a flexible member constituting the bottom and a portion of the front of the film case and secured at one end between the camera case and the back strip of the film case, means for detachably connecting said flexible members, said members, when detached from each other, being adapted to move apart and into the same plane with the back strip of the film case to expose the entire interior of said case, and a series of alining spring clips secured to the back strip of the film case along the center thereof to hold a series of parallel film rolls transversely within the film case.

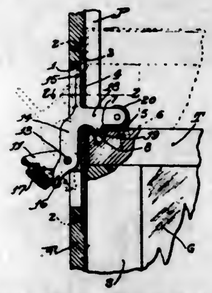
1,354,012. BOX. SIEGMUND BACHMANN, Chicago, Ill. Filed Nov. 10, 1916. Serial No. 130,619. 3 Claims. (Cl. 229—34.)

1. A box formed of a base, walls extending upwardly therefrom, corner-extensions connected with the walls of the box and having portions lying flatwise against adjacent box-walls, and flaps carried by the walls against which said extensions lie and overlapping said extensions at their ends, said corner-extensions having sections connected therewith at the upper extremities of said corner-extensions and interposed between the ends of said flaps



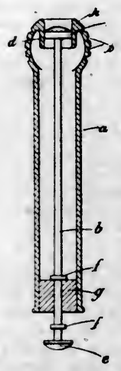
and portions of said corner-extensions lying flatwise against the box-walls, said sections directly underlying said flaps and directly overlying the last-referred-to portions of said corner-extensions and coöperating with said flaps to hold said box in erected condition.

1,354,013. SASH-LOCK. ALVA BAKER, Plattsburg, N. Y. Filed May 1, 1920. Serial No. 378,144. 3 Claims. (Cl. 292—128.)



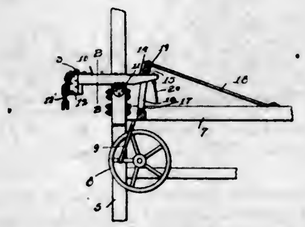
1. In a sash lock, the combination with a keeper plate adapted for attachment to the top rail of the sash near one end thereof and having an opening; of a rightangular hook whose horizontal arm has a depending spur for engaging said opening, a roller pivoted in the inner end of this arm, the vertical arm of said hook depending from the outer end of its horizontal arm, a supporting element for attachment to the frame, said depending arm being pivoted to such element at a point below the horizontal arm, and yielding means normally turning the hook on its pivot to throw its horizontal arm inward and its spur downward into engagement with the opening in the keeper plate.

1,354,014. MEANS FOR APPLYING MEDICAMENTS TO THE BODY. REGINALD BAXTER, London, England. Filed July 19, 1920. Serial No. 397,332. 2 Claims. (Cl. 128—264.)



2. Means for applying medicaments other than fluids or liquids to the body including a hollow stem having a head provided with an inwardly turned cylindrical portion, a piston in said cylindrical portion, a removable closure for the end of the stem opposite the head, and a piston rod passing through said closure provided with checks or stops to engage the same.

1,354,015. DRILLING-MACHINE. ROY BEARD, Bowling Green, Ky. Filed July 3, 1920. Serial No. 393,915. 5 Claims. (Cl. 255—11.)



1. In combination with the derrick legs and the main walking beam of a drilling machine, an auxiliary walking beam pivotally supported by the derrick legs, a link member carried by the main walking beam and embracing a portion of the auxiliary walking beam, whereby movement of the walking beam causes a relative movement of the auxiliary walking beam, and anti-friction means carried by the link member and operating on the auxiliary walking beam.

1,354,016. GRAIN-SAMPLER. EMIL G. BOERNER and ELIHU H. ROPES, Washington, D. C. Filed Jan. 26, 1920. Serial No. 354,299. 1 Claim. (Cl. 83—15.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

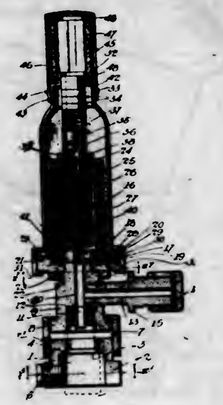


A device for the purpose described, consisting of united back and body portions forming a recess, and a handle secured to said back portion and extending at a right angle to the upper edges of said body portion, one of the sides of said body portion being of greater height than the opposite side.

1,354,017. PRESSURE-GAGE. JUNIUS A. BOWDEN, Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 13, 1912, Serial No. 714,897. Renewed Dec. 7, 1918. Serial No. 265,786. 18 Claims. (Cl. 73—31.)

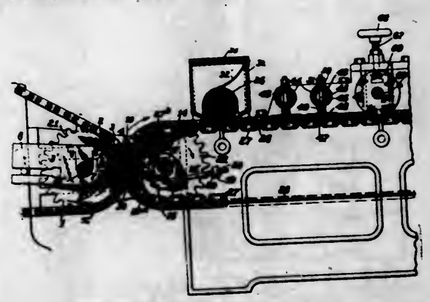
1. In a pressure gage, a barrel with a bead formed near its outer end, a shield with spring sections formed with a groove engaging said bead, a gage bar adapted for projecting from the barrel within the shield, and a glass tube between the shield and gage bar when projecting.

12. In a pressure gage, a supporting body, a flange thereon, a disk on said body below said flange, said disk having an annular recess, an expansible air chamber with a flange below said first flange and seated in said annular recess, a nut on said body for forcing said flange on the body and said disk toward each other to bind the flange of



the air chamber therebetween within said recess, a barrel surrounding the air chamber, a cap slidable in the barrel and secured to said air chamber for guiding the latter, a gage bar slidable in and protruding from said barrel and having coöperative engagement with the air chamber, and a spring opposing outward movement of the gage bar.

1,354,018. BRONZING-MACHINE. ADDISON W. BROCK, Baltimore, Md., assignor to H. Gamse & Bro., Baltimore, Md. Filed June 9, 1919. Serial No. 302,788. 21 Claims. (Cl. 91—59.)



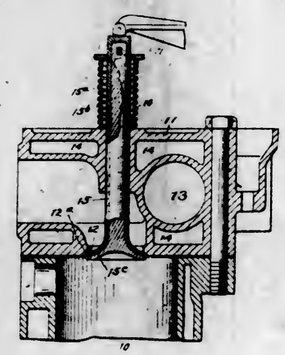
5. A bronzing machine comprising an endless carrier, guide wheels about which said carrier moves with its upper and lower stretches substantially horizontal, grippers on the carrier for taking and releasing sheets, and means for supplying bronze to the sheets as they are being transported by the carrier.

6. In combination in a bronzing machine, a carrier for the sheets, a hopper for supplying the bronze material, a roller at said hopper having a portion of its periphery exposed at the lower end of the hopper for the delivery of the material onto the sheet, means for rotating the roller and adjustable means for limiting the length of the hopper space available for holding the bronze and consequently the effective length of the roll, substantially as described.

12. In combination with carrier means for transporting sheets, means for supplying bronze to the sheets, and rubbing means comprising a plate or bar, hangers for hold-

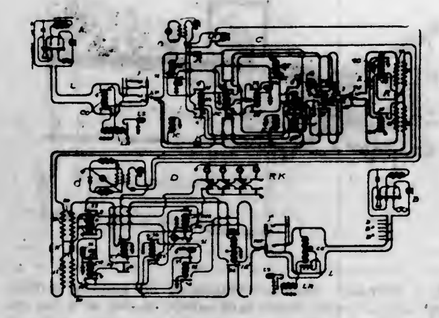
ing the same, an upper plate, springs for pressing the upper plate toward the lower plate and textile material extending over the lower face of the lower plate with its edges held between the plates, substantially as described.

1,354,019. VALVE. ALANSON P. BRUSH, Detroit, Mich. Filed Feb. 16, 1918. Serial No. 217,651. 6 Claims. (Cl. 123—188.)



1. A valve adapted particularly for internal combustion engines comprising a stem with an enlarged portion serving as a head, and having relatively high heat conducting material covering the inner face of the head and extending along the valve stem.

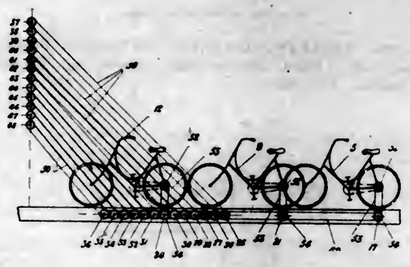
1,354,020. TELEPHONE SYSTEM. HARRY W. BRYCE, Downers Grove, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 6, 1915. Serial No. 54,293. 25 Claims. (Cl. 179—50.)



16. In a telephone system, a two-conductor link circuit, a supervisory relay connected to said link circuit, a trunk circuit, manual means for connecting said link circuit to said trunk circuit, apparatus associated with said trunk circuit and controllable over the two conductors thereof in parallel to unite said link circuit conductors to actuate said supervisory relay.

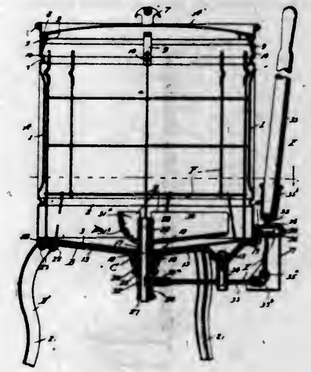
25. A telephone system including a manual link circuit, ringing means associated with said link circuit, a subscriber's line circuit, a trunk circuit, and means for said link circuit operative only when said link circuit is connected to said subscriber's line for initiating the operation of said ringing means.

1,354,021. APPARATUS FOR THE PURPOSE OF PROVIDING PUBLIC AMUSEMENT AND EXERCISE. HERBERT CLEGG, Burnley, England. Filed Feb. 11, 1920. Serial No. 357,841. 2 Claims. (Cl. 46—69.)



1. In an amusement apparatus, a series of stationary pedal-actuated machines arranged parallel to each other and facing in the same direction, a series of screws arranged horizontally and parallel to each other and crosswise of the stationary machines, a series of slidable indicating devices operated by the said screws, and driving devices connecting each stationary machine with the driving screw of the indicating device pertaining to it to give the effect of a race.

1,354,022. DISH-WASHING MACHINE. GEORGE W. CONOVER, Chicago, Ill., assignor to the C-K Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 20, 1915. Serial No. 62,479. 3 Claims. (Cl. 141—9.)

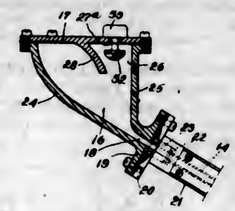


1. In a dish-washing machine, the combination of a vessel provided with substantially vertical corrugations, a rotary paddle in the lower portion of said vessel comprising a long arm and a short arm, the latter having surfaces adapted to direct the water upwardly and outwardly from the lower central portion of the vessel, and means for rotating said paddle.

1,354,023. TRAP FOR MANOMETER-TUBES. GARDNER CORNETT, Bronxville, N. Y., and CECIL W. STANCLIFFE, Toronto, Ontario, Canada, assignors to Pneumercator Company, New York, N. Y., a Corporation of Maine. Filed June 7, 1919. Serial No. 302,578. 15 Claims. (Cl. 73—54.)

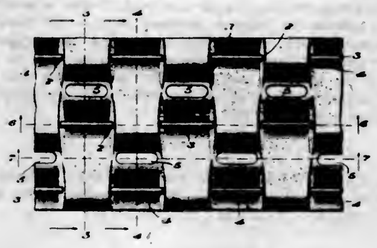
1. The combination with a manometer tube having an upper end, of a chamber in communication at its lower

part with said tube and provided with a vent in its upper part, and a baffle interposed between said vent and the



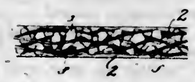
course of a stream flowing from the manometer tube into the chamber.

1,354,024. BUILDING FABRIC. WILLIAM CLAYTON CORYELL, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed July 9, 1919. Serial No. 309,629. 5 Claims. (Cl. 20—13.)



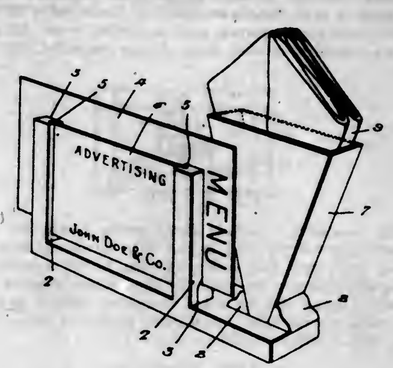
1. A building fabric consisting of a body sheet crimped to form transverse rows of shallow undulations, and the hills and valleys of adjacent rows being arranged in staggered relation to produce longitudinal rows of corrugations, and metallic reinforcing members threaded through the corrugations of each longitudinal row.

1,354,025. METHOD OF STONE-SURFACING FIBROUS MATERIALS. WILLIAM CLAYTON CORYELL, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed July 9, 1919. Serial No. 309,631. 6 Claims. (Cl. 91—68.)



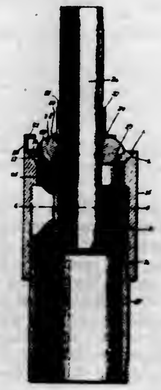
6. A method of water-proofing and fire-proofing relatively porous sheet materials having an oily combustible base, which consists in first rubbing a dust of waterproofing substance into the voids of the relatively porous base, and subsequently applying a coating of liquid artificial stone compound to the dust impregnated base to envelop the same.

1,354,026. MENU AND NAPKIN HOLDER. WILLIAM A. COX, Los Angeles, Cal. Filed Dec. 11, 1919. Serial No. 344,253. 2 Claims. (Cl. 40—124.)



1. A menu holder comprising a base and a pair of posts rising from the base, said posts having vertical slots for receiving a menu card, and vertical grooves in their adjacent sides at opposite sides of said slots for receiving advertising cards.

1,354,027. GAS-ENERGY-CONTROL HEAD FOR OIL-WELLS. ERD V. CROWELL, Tulsa, Oklahoma. Filed Aug. 30, 1919. Serial No. 320,870. 7 Claims. (Cl. 166—2.)

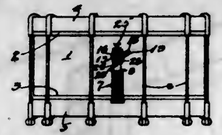


1. A device of the character described, comprising a tubular body portion to be connected with the anchor packer arranged within the casing of an oil well, a movable valve to control the discharge of fluid from the upper end of the tubular body portion, a second movable valve to control the discharge of fluid from the tubular body portion and to control the opening movement of the first named valve, and a tubing leading into the tubular body portion and vertically adjustable with relation thereto and carrying an element to engage with the second named valve.

1,354,028. SNARE-TENSIONING DEVICE FOR DRUMS. ROBERT C. DANLY, Chicago, Ill., assignor to Ludwig & Ludwig, Chicago, Ill., a Corporation of Illinois. Filed May 28, 1919. Serial No. 300,265. 10 Claims. (Cl. 84—127.)

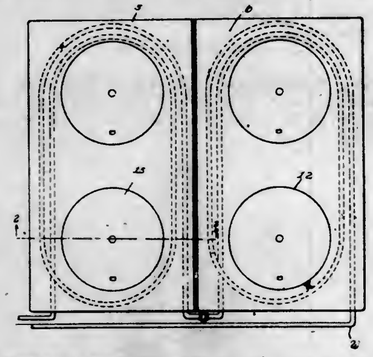
1. A snare tensioning device comprising a slotted support, a slotted cam mechanism pivotally mounted thereon,

a slidable member mounted on said support, a roller mounted thereon and engaged in the slots in said support and in said cam mechanism, a string tensioning member slidably mounted on said support, an adjusting screw mounted on said slidable member and connected with said string tensioning member, said adjusting screw adapted to be actuated to tension snare strings connected with the



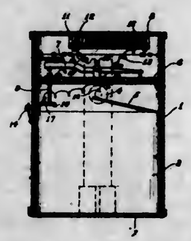
string tensioning member, and locking means on said adjusting screw for holding the same in an adjusted position, said cam mechanism adapted to be operated to cause simultaneous movement of the slidable member, the adjusting screw and the string tensioning member to move the snare strings from an adjusted tensioned snare position into a release position.

1,354,029. AUXILIARY STOVE-TOP. ESTELLA DEFFENBAUGH, Berkeley, Calif. Filed Feb. 26, 1920. Serial No. 361,521. 1 Claim. (Cl. 126—53.)



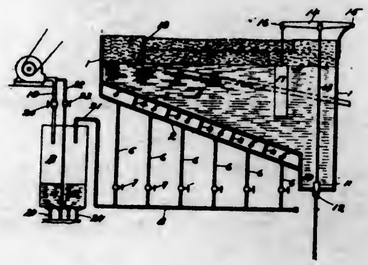
A separable auxiliary stove top including plates, each of said plates having its side and rear walls bent at right angles to form supporting flanges, one of said plates having a downwardly and upwardly extending flange providing a V-shaped groove, one of the walls of the opposite plate extending downwardly at an angle, and adapted to be positioned within the groove, and each of said plates having burner openings, and sinuous water pipes surrounding said openings, adapted to be detachably connected approximately in line with said groove.

1,354,030. SIGNALING DEVICE. ANDERSON DILLY, Brooklyn, N. Y. Filed Nov. 4, 1919. Serial No. 335,716. 3 Claims. (Cl. 240—8.5.)



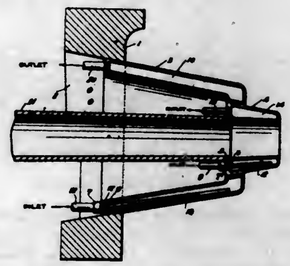
1. A portable signal device comprising a container, a light bulb mounted thereupon, a key member for producing the flashes of light in code signaling, a source of electric current including circuit wires, means upon which the said circuit wires are wound when the key member is operated from the container, said key being removable from the container to permit signaling when the key is relatively distant from the container and the circuit wires are unwound.

1,354,031. ORE-CONCENTRATING APPARATUS. BENJAMIN H. DOSENBACH, Butte, Mont.; Edna M. Dosenbach executrix of said Benjamin H. Dosenbach, deceased. Filed Jan. 28, 1918. Serial No. 214,104. 2 Claims. (Cl. 83—55.)



1. In a device of the class described, a vaporizing vessel, means for forcing air into contact with a modifying agent therein to form a mixture of air and vaporized modifying agent, means for controlling the proportion of air and modifying agent in said mixture and the pressure of the mixture and means for introducing said mixture under said regulated pressure into ore pulp contained in a flotation cell.

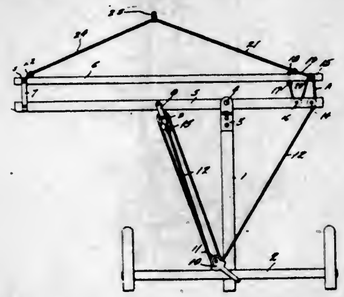
1,354,032. TWYER AND COOLING-BOX. JAMES P. DOVEL, Birmingham, Ala. Filed Oct. 30, 1917. Serial No. 199,345. 2 Claims. (Cl. 122—6.6.)



1. The combination with a twyer and the like having a water chamber and a threaded water inlet port in its outer wall, of a fitting having its inner end externally threaded, an internal shoulder beyond which the bore of the fitting is enlarged toward its inner end, internal threads in the outer end of said bore, and a water discharge pipe inserted with a loose fit through the bore of the fitting and having its outer end flanged to engage said shoulder, substantially as described.

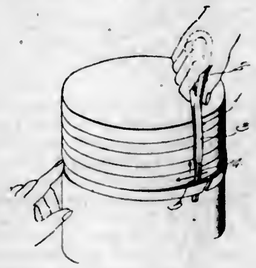
1,354,033. DRAFT-EQUALIZER. THOMAS J. DUDLEY, Dallas, Tex., assignor of one-fourth to A. L. Gracey, Dallas county, Tex. Filed Sept. 2, 1919. Serial No. 320,978. 2 Claims. (Cl. 278—1.)

1. In a draft equalizer, the combination with the draft connection of a vehicle, of a transverse evener beam pivotally attached to said draft connection at a point whereby it is divided into a long portion and a short portion, a draft bar pivotally attached to the extremity of the long portion of the evener beam, a pulley block pivoted to the long portion of the evener beam adjacent the center of said beam, a second pulley block connected with a fixed point on the vehicle in rear of the evener beam, a flexible connection having one end secured to one of the pulley blocks and passing between said blocks in several strands, the



other end of the flexible connection extending to the extremity of the short portion of the evener beam and formed into a loop, a pulley in the short end of the evener beam over which the looped end of the connection passes, a pulley disposed in the free end of the draft bar and within the looped end of the connection around which the latter passes, and a draft connection attached to the ends of the draft bar.

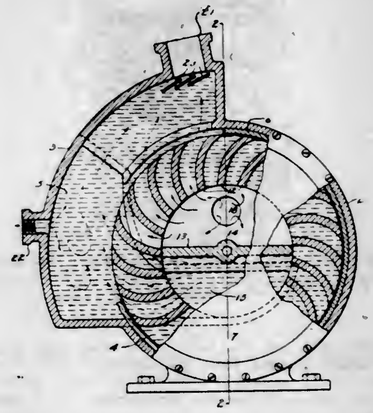
1,354,034. PISTON-RING TOOL. NEIL COGSWELL ENSWORTH, Warren, Pa. Filed Sept. 4, 1919. Serial No. 321,538. 2 Claims. (Cl. 29—84.)



1. A tool for applying and removing piston rings comprising a single strip of metal having a handle formed at one end, the opposite end thereof being flattened and reduced in thickness from the handle to the end of the strip to form a shank, said shank being longitudinally curved, the end portion thereof being of less width than the portion adjoining the handle.

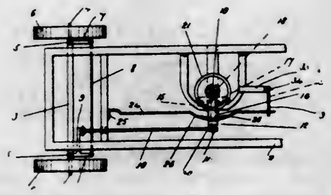
1,354,035. ROTARY COMPRESSOR. BION B. FARNHAM, Kenmore, N. Y. Filed Apr. 9, 1919. Serial No. 288,698. 1 Claim. (Cl. 230—14.)

A rotary compressor, comprising a housing forming a main chamber and an auxiliary chamber in communication with each other, said main chamber being divided into an upper and a lower chamber, an air intake port communicating with said upper chamber, an air outlet port communicating with said auxiliary chamber, adjustable means for changing the location of said upper and lower chambers with relation to the auxiliary chamber, means for supplying water to said auxiliary chamber, an overflow duct connecting the auxiliary chamber with said lower chamber, an impeller including a pair of members connected together by a plurality of curved blades extending radially of the main chamber and having ducts therebetween adapted to communicate with said upper and lower chambers, said ducts being adapted to receive water



when in communication with the lower chamber, means for rotating said impeller thereby to forcibly eject the water therefrom into the auxiliary chamber during the communication of its ducts with the upper chamber, and baffles within the auxiliary chamber opposite the air outlet port.

1,354,036. STEERING ATTACHMENT FOR TRACTORS. RALPH S. FARNSWORTH, Loda, Ill. Filed Nov. 25, 1919. Serial No. 340,515. 3 Claims. (Cl. 280—89.)

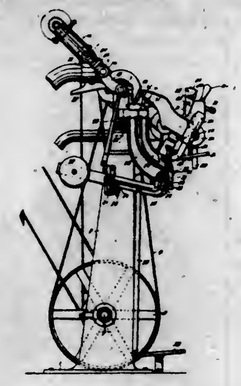


1. The combination, with the steering mechanism of a tractor provided with a crank mounted to oscillate in a vertical plane and provided with a lateral projection, of a spring plate secured to the tractor at one end and having a laterally projecting portion having an opening for engaging automatically with the said projection and thereby holding the said crank stationary.

1,354,037. HEEL-BREAST-TRIMMING MACHINE. LOUIS G. FREEMAN, Cincinnati, Ohio, assignor to Louis G. Freeman and Charles F. Freeman, trustees, Cincinnati, Ohio. Filed June 15, 1917. Serial No. 174,824. 25 Claims. (Cl. 12—47.)

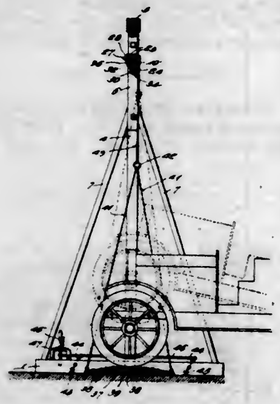
1. In a machine of the class described, adapted to trim the heel breasts of boots and shoes, a rotary cutter, a rocking frame, a movable jack carried thereby and adapted to hold a shoe, means to adjust said jack so that the heel

breast is presented to the cutter in a predetermined angular position to clear the shoe shank, and means to



move the jack and shoe toward and from said cutter in said angular position while thus adjusted.

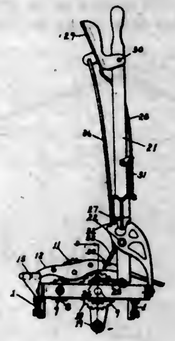
1,354,038. VEHICLE-HOISTING DEVICE. WILLIAM C. GEORGE and FRED N. NOFSGER, Humboldt, Nebr. Filed Sept. 15, 1919. Serial No. 323,740. 4 Claims. (Cl. 187—9.5.)



1. In a vehicle hoisting device, the combination of a flexible platform consisting of a plurality of bars hingedly connected together at adjacent edges, and means for raising and lowering said platform, said means including suspending elements fastened to the ends of the outermost bars of said platform whereby the latter is permitted to flex around a pair of wheels supported thereon.

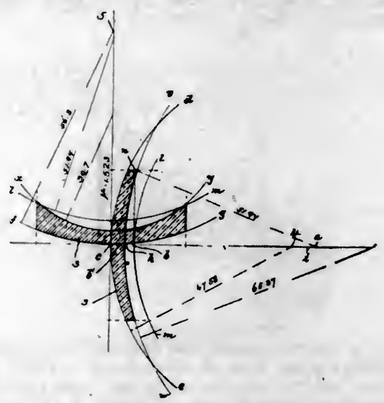
1,354,039. PLANTER. JOSEPH HAINES, Lawton, Mich. Filed Oct. 31, 1919. Serial No. 334,837. 4 Claims. (Cl. 74—58.)

1. In a structure of the class described the combination of a driven shaft, a driving shaft, a driving wheel rotatably mounted on said driving shaft, a pawl carried by said driving shaft coacting with said driving wheel, a rock shaft provided with a trip normally disengaging said pawl, a set of driving gears of different diameters splined upon said driving shaft, a gear on said driven shaft, a connecting gear adapted to mesh with said driven shaft gear and with the driving gear aligned therewith, a pivoted support for said connecting gear whereby it may be lifted out of mesh to permit the shifting of said driving gears, a shifting lever for said driving gears provided



with a detent, a coacting segment and a pivoted hand-piece connected to said detent, and a link connecting said hand-piece to said connecting gear support whereby said connecting gear is lifted out of mesh to permit the shifting of said driving gears when said lever detent is released.

1,354,040. SPECTACLE-LENS. JAMES H. HAMMON, Vincennes, Ind. Filed Feb. 19, 1919. Serial No. 277,964. 7 Claims. (Cl. 88—54.)

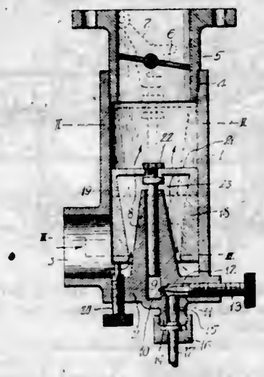


1. A spectacle glass whose convex front surface is normal to the field of direct vision through all points in the visual field.

1,354,041. CARBURETER. CLARE W. HESS, Flint, Mich. Filed Jan. 2, 1918. Serial No. 209,992. 1 Claim. (Cl. 261—62.)

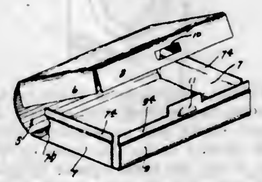
A carbureter comprising a cylindrical body having a side air inlet connection, a conical shaped nozzle integral with the bottom of said body and provided with a cylindrical bore extending into the bottom of said body, a fuel inlet communicating with said nozzle, an air valve free to slide in said body to and from said conical nozzle and having an inner wall tapered the reverse of the wall of said nozzle and the small end in proximity to the bottom of said cylindrical body and capable of seating thereon, a cylindrical metering pin loosely connected to said valve

and extending into the bore of said nozzle, and a screw carried by the lower end of said body engaging the lower



end of said valvular member and adapted to limit the downward movement of said valvular member in said cylindrical body.

1,354,042. CIGARETTE-CASE. BENJAMIN F. HUNZIKER, Minneapolis, Minn., assignor to Julius F. Hunziker, Minneapolis, Minn. Filed Mar. 8, 1920. Serial No. 364,057. 1 Claim. (Cl. 206—41.)



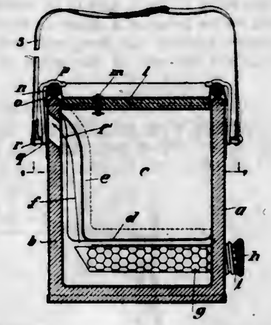
A cigarette case formed from a single piece of sheet metal bent on a curve at its intermediate portion to form a bowed spring acting edge wall, tending to open the case, and with the two sides forming portions of the sheet at their edges and ends having coöperating lapping flanges, said edge forming flanges having yieldingly engaging interlocking elements, and one of said end forming flanges adjacent to the bowed edge of the case, having a passage that is always open when the case is closed, to permit the endwise discharge of cigarettes, one at a time, all of the other edge forming flanges having curved ends located immediately adjacent to said bowed edge of the case, substantially as described.

1,354,043. WEED-DESTROYER. GEORGE KRAMER, Dysart, Iowa. Filed Oct. 23, 1919. Serial No. 332,807. 1 Claim. (Cl. 167—6.)

A weed-destroying compound, composed of substantially equal portions of lye and salt, a larger portion than either of saltpeter, and a larger portion of slack coal than of saltpeter.

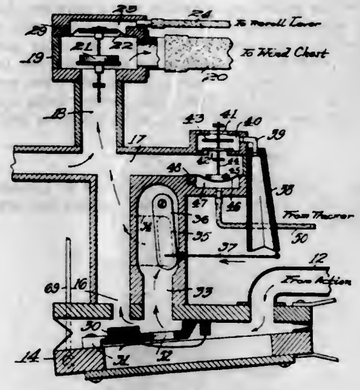
1,354,044. PORTABLE-COOKER ARRANGEMENT. FRANZ KRÜGER, Berlin, Germany. Filed July 3, 1916. Serial No. 107,480. 4 Claims. (Cl. 126—261.)

2. In a portable cooking device comprising a casing, a food vessel disposed within said casing, a heating chamber extending below that vessel transversely above the bottom of said casing through the whole length of said food vessel, a chimney arranged at one end of that chamber at right angles to it and leading to the upper edge of said casing, an opening in the wall of said casing at the other end of said heating chamber, a heating device for solid



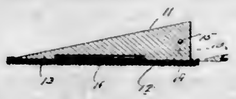
fuel, arranged within that chamber and extending from said opening to the other end of said chamber and nearly to the lower end of the chimney.

1,354,045. EXPRESSION DEVICE FOR AUTOMATIC MUSICAL INSTRUMENTS. HERBERT J. LA JOIE, Orange, N. J., assignor to Autopiano Company, a Corporation of New York. Filed June 17, 1918. Serial No. 240,306. 3 Claims. (Cl. 84—42.)



1. In an expression mechanism for automatic musical instruments, a player action, an exhaust connection, a tracker-bar having an expression opening therein, pneumatic means to increase the air tension in the action, controlled from said tracker opening, an expression regulating pneumatic through which the air is exhausted, and manual means to positively expand said pneumatic to increase the air tension on the action.

1,354,046. DOOR-HOLDER. EDWIN LANNING, La Casa, Tex. Filed Mar. 18, 1920. Serial No. 366,848. 1 Claim. (Cl. 292—343.)



A door holder comprising a wedge block adapted for engagement between the carpet of a floor and the bottom

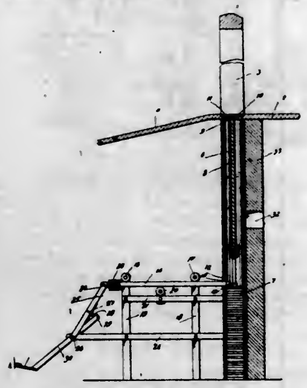
edge of a door, said block being cut out in its carpet engaging face to provide a recess and resultant end bosses, and a pivoted yoke carried by the thicker end of the block for suspending the block at times, and to lie within the recess at times, said recess being of a depth to receive the yoke when so engaged beneath the door, and said yoke being arranged to permit the pile of the carpet to pass therethrough.

1,354,047. POCKET FOR GARMENTS. SAUL LEVINE, New York, N. Y. Filed Sept. 22, 1919. Serial No. 325,293. 4 Claims. (Cl. 2—15.)



1. A double pocket construction for a garment, having a pocket opening therein, comprising an inner wall member including a part folded to form a reëntrant portion, said inner wall member having its edges secured to the inner face of the garment down to the reëntrant portion and the inner wall of the reëntrant portion being secured to the inner face of the garment along its lower and side edges.

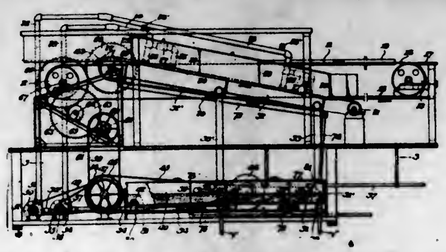
1,354,048. SAFETY-GUARD. CHARLES J. LINDSTROM, Clinton, Mo. Filed Mar. 15, 1920. Serial No. 366,086. 11 Claims. (Cl. 268—2.)



1. The described device consisting of a blind, a spring upon which the blind is mounted and a tube in which the spring is inclosed, said tube being split to accommodate said blind.

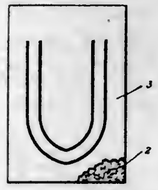
1,354,049. DISH-WASHER. JESSE LINTON, Philadelphia, Pa. Filed Sept. 8, 1917. Serial No. 190,282. 2 Claims. (Cl. 141—9.)

2. In a dish washing machine, the combination of means for automatically carrying dishes from a charging point to a discharging point including two conveyer belts and means for automatically transferring dishes from the first belt to the second belt and then at a required interval



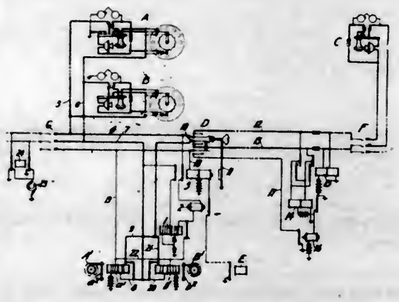
back to the first belt, and stream ejector devices operating upon the dishes while in transit for washing and rinsing the same.

1,354,050. ROOFING-TILE. ARTHUR LOVELL, Douthat, Okla. Filed Jan. 10, 1920. Serial No. 350,525. 2 Claims. (Cl. 108—17.)



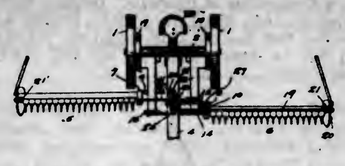
1. A roofing tile, comprising a sheet or body portion of compressed felt impregnated with asphalt, and a facing plate of metallic sheet zinc permanently secured to one asphalted side surface of the felt body portion, one exposed surface of the tile being formed by the sheet zinc and its other exposed surface being formed by the compressed felt.

1,354,051. CALL-REGISTERING SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1918. Serial No. 256,232. 21 Claims. (Cl. 179—9.)



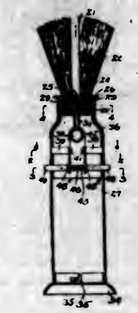
1. In a telephone system, a party line having a plurality of substations, a register mechanism individual to each of said substations, means for selecting one of said mechanisms upon the initiation of a call at the associated substation, and means for reversing the current through said register mechanism to cause the operation thereof.

1,354,052. TWO-WAY MOWER. WILLIAM MCDONALD, Twin Falls, Idaho. Filed Feb. 19, 1920. Serial No. 359,957. 3 Claims. (Cl. 56—288.)



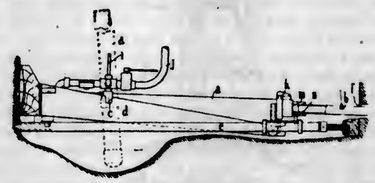
1. The combination in an implement as described including the hinged cutter bar and tongue, of a lift bar pivoted at the free end of the cutter bar, an oscillatable disk supported on the tongue, said lift bar pivoted to the disk, and a lever attached to the disk, and means for holding the disk in stationary position.

1,354,053. LATHER-BRUSH FOR POWDERED SOAP. FRANK MCLAUGHLIN, Philadelphia, Pa. Filed Sept. 5, 1919. Serial No. 321,950. 16 Claims. (Cl. 132—33.)



1. In a lather brush, a brush body having a hollow center of small diameter as compared with the base and extending from the point of the bristles to the base thereof to form an orifice adapted to receive powder, and a handle for the brush.

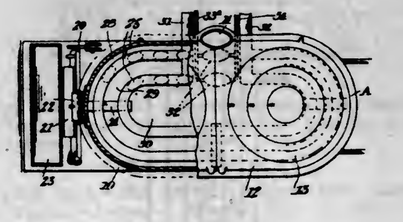
1,354,054. EARTH-BORING MACHINE. ARTHUR RIVINGTON MANGNALL, Chester, and ROY FORBES IRVING, Clifton, Bristol, England. Filed July 31, 1920. Serial No. 400,512. 9 Claims. (Cl. 37—39.)



1. An earth boring machine comprising a frame having means for clamping the same in a position adjacent to the mouth of the bore to be produced, a second frame adjustably connected to the first frame, a hydraulic cylinder pivotally mounted in the second frame, and a hydraulic plunger in said cylinder.

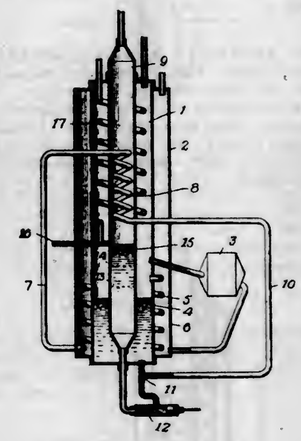
1,354,055. HEATER. ROBERT NICHOLAS MURPHY, Ottawa, Ontario, Canada. Filed Aug. 25, 1919. Serial No. 319,708. 5 Claims. (Cl. 126—5.)

1. In a heater, a body portion formed with a water jacket, water circulating elements located in the heater and spaced from the jacket to provide fuel space between the elements and the walls of the jacket, an additional



fuel space within the confines of the elements, said fuel spaces being open at the top and designed to be fired alternately as and for the purpose set forth.

1,354,056. PROCESS OF SEPARATING MIXED GASES. FRED E. NORTON, Worcester, Mass., assignor to Jefferies-Norton Corporation, a Corporation of Delaware. Filed Aug. 31, 1915, Serial No. 48,325. Renewed July 29, 1919. Serial No. 314,162. 16 Claims. (Cl. 62—175.)

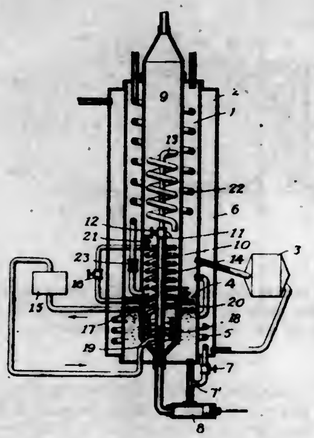


1. The herein described process of separating mixed gases, by liquefaction and distillation, comprising the increase of pressure on the liquefied portion, the progressive liquefaction of the incoming mixture by the evaporation of said liquefied portion under its increased pressure, the rectification of the evaporate from said liquefied portion under its increased pressure by the vapor residue of progressive liquefaction, and the condensation of said vapor residue in said liquefied portion, before the increase of pressure thereon.

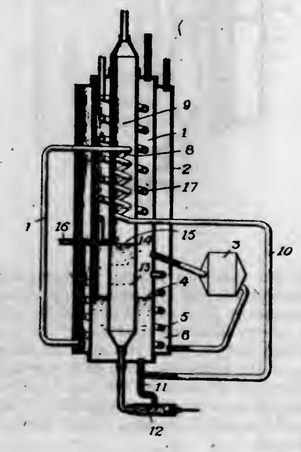
1,354,057. PROCESS OF SEPARATING MIXED GASES. FRED E. NORTON, Worcester, Mass., assignor to Jefferies-Norton Corporation, a Corporation of Delaware. Filed Oct. 20, 1915, Serial No. 56,987. Renewed July 29, 1919. Serial No. 314,163. 14 Claims. (Cl. 62—175.)

1. The herein described process of separating a mixed gas, comprising the liquefaction thereof, the increase of

pressure on the liquid, the distillation of said liquid under increased pressure by the addition of latent heat extracted from the fluid undergoing liquefaction and the rectification of the products of distillation by means of said liquid.

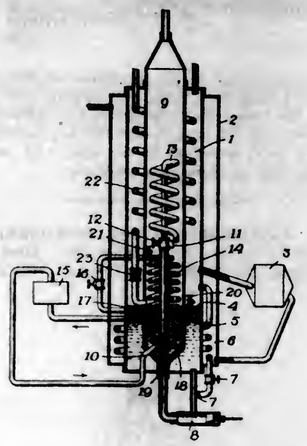


1,354,058. APPARATUS FOR THE SEPARATION OF MIXED GASES. FRED E. NORTON, Worcester, Mass., assignor to Jefferies-Norton Corporation, Worcester, Mass., a Corporation of Delaware. Original application filed Aug. 31, 1915, Serial No. 48,325. Divided and this application filed Jan. 26, 1918, Serial No. 213,887. Renewed July 14, 1920. Serial No. 396,334. 21 Claims. (Cl. 62—122.)



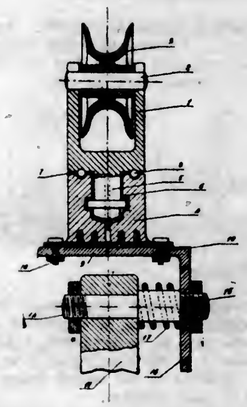
1. A system of the class described, for separating mixed gases by progressive liquefaction and rectification, comprising a reverse flow interchanger providing a rectifying column, and means for maintaining a pressure in said column higher than the pressure at which liquefaction of the gas takes place.

1,354,059. APPARATUS FOR THE SEPARATION OF MIXED GASES. FRED E. NORTON, Worcester, Mass., assignor to Jefferies-Norton Corporation, Worcester, Mass., a Corporation of Delaware. Original application filed Oct. 20, 1915, Serial No. 56,987. Divided and this application filed Jan. 28, 1918, Serial No. 214,051. Renewed July 14, 1920. Serial No. 396,335. 18 Claims. (Cl. 62—122.)



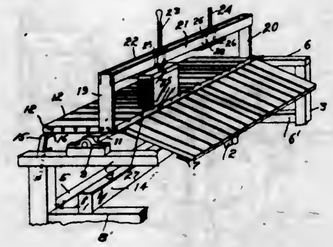
1. A system for the separation of mixed gases by progressive liquefaction and rectification, comprising a reverse flow interchanger providing a rectifying column, means for maintaining a pressure in said column higher than the pressure at which liquefaction of the gas takes place, and means for transferring latent heat from the fluid undergoing liquefaction to the high pressure fluid in said rectifying column.

1,354,060. TROLLEY FOR ELECTRIC TRAMWAYS. GIOVANNI ODIERNO, Milan, Italy. Filed June 26, 1919. Serial No. 306,973. 1 Claim. (Cl. 191—60.)



In combination with a deformable parallelogram in a trolley device for electric cars, rods forming a part of the parallelogram and having the lower ends pivoted to the roof of the car, a plate forming a part of the parallelogram and having a lateral wing projection pivoted laterally to the upper ends of the rods, friction springs intermediate the wing projection and rods, a sectional support having a central socket, means for fastening the support centrally on said plate, a forked member having a downwardly extending pivot rotatably arranged in said socket, a seating on said support, ball bearings intermediate the seating and forked member, and a grooved roller mounted in said forked member.

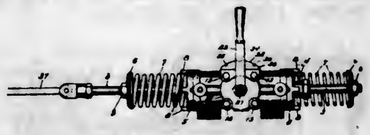
1,354,061. PAPER-PAD PRESS. ROBERT R. PALMER, San Francisco, Calif., assignor of one-third to August E. Drucker, San Francisco, Calif. Filed Dec. 3, 1919. Serial No. 342,130. 4 Claims. (Cl. 100—57.)



1. A paper pad press comprising a frame, a support movably mounted thereon, a second support hinged to the first support, and means to press a bundle of sheets against the first support.

4. A paper pad press comprising a frame, a support movably mounted therein, a second support hinged to the first support, three stops on the frame adapted to hold the two supports in a trough position, to hold one support horizontal and to hold that support vertical and means to hold a series of pads on the first support.

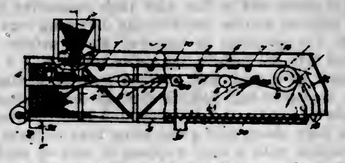
1,354,062. HEADLIGHT-TURNING MECHANISM. ALFRED PAYNE, Quebec, Quebec, Canada. Filed Oct. 23, 1919. Serial No. 332,629. 4 Claims. (Cl. 240—61.)



1. In a lamp turning mechanism, the combination of a lamp pivoted to swing upon a vertical axis, a cylinder provided with end heads and having supply and exhaust ports communicating with the opposite ends thereof, a rod slidable through said end heads and movable longitudinally of the cylinder, a piston carried by said rod and operating within the cylinder, abutments upon the projecting ends of the rod, springs surrounding the opposite ends of the rod between the abutments and end heads of the cylinder for resisting movement of the piston in opposite directions and for normally maintaining said piston in a position centrally of the cylinder, connecting means between the rod and lamp, and valve mechanism controlling the supply and exhaust of fluid to and from the ends of the cylinder.

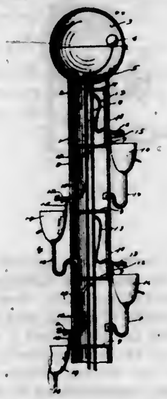
1,354,063. APPARATUS FOR GRADING FINELY-COMMINUTED MATERIALS. CLARENCE Q. PAYNE, New York, N. Y. Filed Aug. 7, 1919. Serial No. 315,944. 16 Claims. (Cl. 83—54.)

1. Apparatus for the sizing of finely comminuted material, comprising an endless belt and means for operating the belt to cause the finer particles to adhere to the surface thereof, means for varying the resistance to the motion of the different-sized granular particles along the discharge end of the belt, means for collecting separate



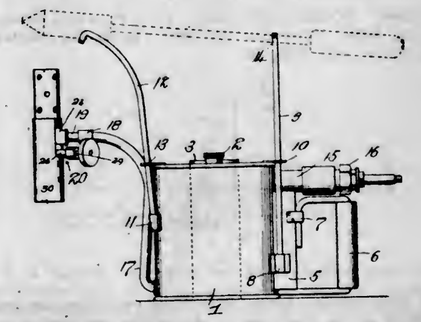
groups of said granular particles and means for removing the finer particles adhering to the belt, from the lower flight thereof.

1,354,064. SANITARY DRINKING-FOUNTAIN. GEORGE R. PRATT, Williston, N. D. Filed Mar. 22, 1918. Serial No. 223,985. 2 Claims. (Cl. 299—8.)



1. A drinking fountain, comprising in combination, a casing serving as a waste pipe, a feed pipe therein, a plurality of horizontally extending nozzles mounted in the casing for vertical sliding movement and for vertical tilting movement therein, a basin carried by each nozzle, a flexible connection between each nozzle and the feed pipe, and a flexible connection between each basin and the waste pipe.

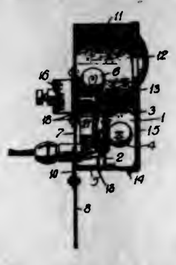
1,354,065. TOOL-HOLDER FOR BLOW-TORCHES. WILLIS PRUESSING and CARL PRUESSING, Syracuse, Nebr. Filed Sept. 18, 1916. Serial No. 120,732. 1 Claim. (Cl. 126—236.)



A device of the character described comprising a torch including a tank, an air pipe leading into the same at one side, a gas pipe leading out of the tank at the opposite side and carried upward and bent forward, and an upright

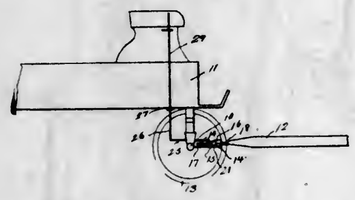
tubular burner to which the gas pipe delivers; plates secured upon the tank at front and rear and each having two openings, sockets secured to the wall of the tank below said plates and in line with their respective openings, a rear support having downwardly diverging legs passing through the openings in the rear plate, astride the air pipe and into the sockets, its upper end having a seat for the shank of a tool, and a front support having downwardly diverging legs passing through the openings in the front plate, astride the gas pipe, and into the front sockets, its body above said plate being bent forward and its top provided with a seat disposed in rear of said burner and adapted to support the head of a tool.

1,354,066. SIGNAL FOR AUTOMOBILES. FERDINAND C. ROBERTS, Detroit, Mich. Filed Oct. 16, 1916. Serial No. 125,793. 2 Claims. (Cl. 40—132.)



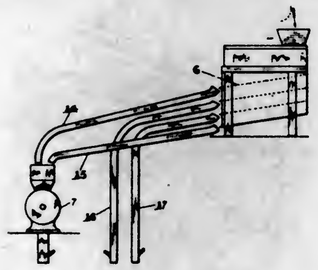
1. In tail light construction wherein a pair of lamps are supported to illuminate two independent warning signals and a license number plate, means for supporting the elements in relative positions, said means including a casing having a body portion having a partition to divide the body portion into two compartments arranged in front and rear relation, the vertical portion of the partition carrying one of such lamps located in the front compartment in rear of one of the signals, a hood overlying both compartments and in open communication with the rear compartment, said hood carrying the second signal, a lamp for the second signal supported by the rear wall of the casing and positioned above said rear compartment and within the hood, said second compartment having a bottom adapted to permit passage of light rays therethrough, a license number plate supported by the rear wall of the casing to position it in rear of such light rays, and lamp connections located within the rear compartment, the lamps and connections being so disposed as to permit substantially unobstructed passage of light rays from the second lamp to said compartment bottom.

1,354,067. HORSE-DETACHER. PAUL STEWART, Brocksburg, Nebr. Filed Mar. 22, 1918. Serial No. 224,023. 1 Claim. (Cl. 278—29.)



A horse detacher including members carried by the rear portions of the draft pole of the vehicle and having upwardly extending angular lugs, members pivotally connected to the axle of the vehicle and having gripping arms one of which is flexible and formed with terminal socket portions for receiving and holding the lugs of the pole means, a transverse shaft carried by the vehicle and having angular heads on the ends thereof disposed between the gripping arms, and means for rotating said shaft whereby the said heads will engage and flex the said flexible gripping arms out of engagement with the lugs of the pole means.

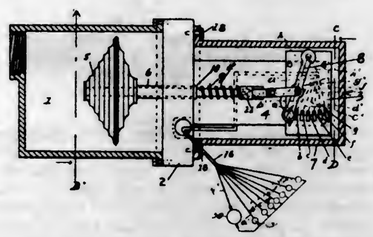
1,354,068. MANUFACTURE OF ANIMAL FOODS FROM KITCHEN WASTE AND THE LIKE. RICHARD L. D. TAYLOR, Toronto, Ontario, Canada, assignor to Predigest Food Company, Limited, Toronto, Ontario, Canada. Filed Feb. 25, 1919. Serial No. 279,111. 6 Claims. (Cl. 99—5.)



3. A process of treating garbage which consists in pulping the material; then drying and tumbling the pulped material to cause the formation of nodules; cooking the product of the previous step in the process without agitation to avoid breaking up the nodules; and screening the dried and cooked product to separate the nodules from the coarser and finer parts.

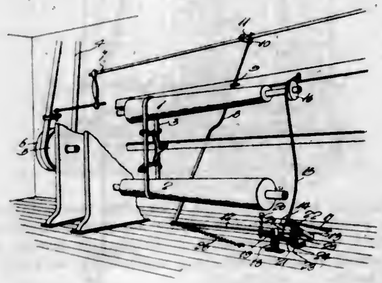
4. A process of treating garbage which consists in mixing with the same a pulverulent absorbent vegetable filler; pulping the partly dried mixture; and then drying the pulp at a temperature over 300° Fahr., at the same time tumbling the pulped material to cause the formation of nodules.

1,354,069. SAFETY APPLIANCE FOR SHIPS. ALOYSIUS S. TERHAAR, San Diego, Calif. Filed Dec. 1, 1916. Serial No. 134,520. 1 Claim. (Cl. 200—81.)



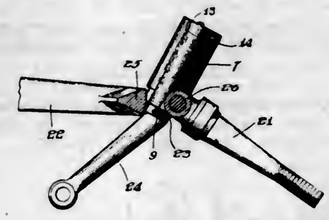
A device of the class described, adapted to be mounted in the keel of the ship, in combination, a disk having a central hole therein; a tube mounted in said hole; a normally expanded collapsible member 5 mounted on said tube; a shaft mounted within said tube, said shaft having one end extending within said collapsible member and attached to the apex thereof, and the opposite end extending without said disk; a water chamber mounted on said disk and inclosing said collapsible member, said water chamber having a water inlet adapted to communicate with the outside of the ship in which it is mounted; a bracket mounted on said disk outside said water chamber; a guide block for said shaft mounted on said bracket; a collar mounted on said shaft; a spring mounted on said shaft between said guide block and said collar whereby auxiliary resistance is afforded to the pressure of the water on the member 5; a switch having a plurality of points, mounted on said bracket; a connecting pitman for said shaft and said switch; and a housing mounted on said disk without said water chamber to protect the members which are mounted on said bracket; substantially as described and for the purposes set forth.

1,354,070. SAFETY STOP-MOTION FOR SPEEDER-MACHINES. WALTER F. TRAYWICK, Belmont, N. C., assignor of one-third to Benjamin T. Bumgardners, Belmont, N. C., and one-third to Charles E. Ware. Filed Aug. 7, 1919. Serial No. 315,933. 2 Claims. (Cl. 74—46.)



1. The combination with a speeder machine, of a lever fulcrumed to a stationary part of the machine and operatively connected to the belt shifting rod thereof, a brake for one of the upper cones of the machine, a stop fixed to a stationary part of the machine, a trigger connected to said lever and engageable with said brake, said trigger being engageable with said stop when in set position to hold said lever and said brake inoperative, and a second lever fulcrumed to a stationary part of the machine and engageable with said trigger to release the latter and permit said first lever and said rod to shift and said brake to be applied, said second lever being positioned beneath and adapted to be engaged by the corresponding lower cone of the machine upon breaking of the belt connecting said cones.

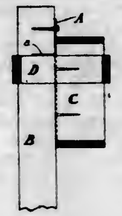
1,354,071. AUTOMOBILE-LOCK. EVERETT ST. JOHN, Philadelphia, Pa. Filed May 29, 1917. Serial No. 171,610. 6 Claims. (Cl. 70—90.)



1. An automobile lock comprising a body adapted to be inserted between the axle supporting sleeve and the sleeve supporting bracket and to be withdrawn therefrom, and locking means for securing said body in said inserted position.

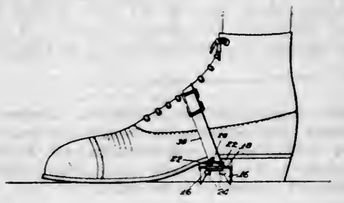
1,354,072. BUFFER-BRACKET FOR PICKER-STICKS. JOSEPH SAVOIE, Central Falls, R. I. Filed July 12, 1920. Serial No. 395,756. 1 Claim. (Cl. 139—21.)

A buffer bracket for loom picker sticks consisting of a flat body struck up from sheet metal adapted to be secured by screws to both the buffer and the picker stick; and having separable side arms disposed one on each side



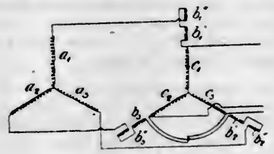
of the picker stick; said arms serving to prevent side movement of said bracket and also to retain in position the tape binding D, substantially as shown.

1,354,073. ICE-CREEPER. ABRAHAM SCHEMEL, Yonkers, N. Y. Filed May 29, 1920. Serial No. 385,312. 3 Claims. (Cl. 36—62.)



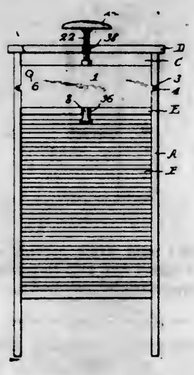
1. An apparatus as characterized comprising a strap plate having means rigidly formed thereon for holding a service strap for attachment to the shoe of a person; a spur plate having down-turned sharpened spur portions for engaging the ground, said spur plate having an up-turned hook lug; resilient latches mounted on said spur plate for engaging said strap plate to be supported thereby; and accessible means for moving said latches from engagement with said strap plate.

1,354,074. MACHINERY FOR BALANCING OF UNSYMMETRICAL LOADS WITH POLYPHASE DISTRIBUTION-NETS OR SUPPLY-MAINS. HIDDE KLAAS SCHRAGE, Stockholm, Sweden. Filed Dec. 22, 1919. Serial No. 346,758. 4 Claims. (Cl. 172—238.)



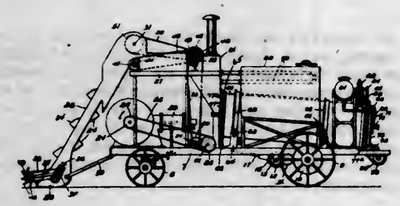
1. A system comprising polyphase supply mains, an unbalanced load therefor, an auxiliary induction machine having primary windings connected in series between said supply mains and said load and short-circuited secondary windings rotating backwardly with respect to the phase sequence of the primary currents, and a phase balancer connected in parallel with the load at a point intermediate the load and said induction machine.

1,354,075. SELF-SOAPING WASHBOARD. GEORGE H. SCULLY and JESSIE B. SCULLY, Kansas City, Mo., assignors to J. F. MARX, Hartington, Nebr. Filed Nov. 19, 1918. Serial No. 263,150. 4 Claims. (Cl. 68—29.)



1. In combination with a washboard, a container on said washboard for holding a liquid washing compound, a self-closing outlet valve at the lower portion of said container, and means for opening said valve and discharging the compound from the container in the form of spray.

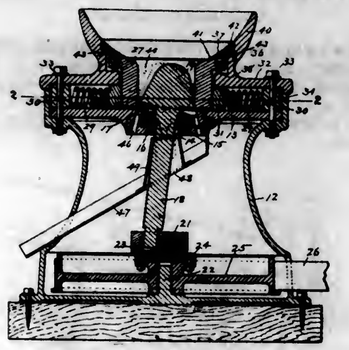
1,354,076. ROAD-MAKING MACHINE. JAMES W. T. STEPHENS, New Orleans, La., assignor of one-third to Harley A. W. Howcott and one-third to J. P. Baldwin, New Orleans, La. Filed Apr. 21, 1919. Serial No. 291,436. 14 Claims. (Cl. 94—42.)



1. In a road making machine, a rotary calcining cylinder, a throat communicating with said cylinder, means for delivering comminuted earth to the throat for passage to the cylinder, means for heating the interior of the cylinder, a stack communicating with the throat for the discharge of the products of combustion from the cylinder, a binder receptacle, a heating coil within said receptacle and having its inlet and discharge ends communicating with the stack, and means in the throat for causing the products of combustion from the cylinder to pass directly outward through the stack or to pass through said coil before discharging through the stack.

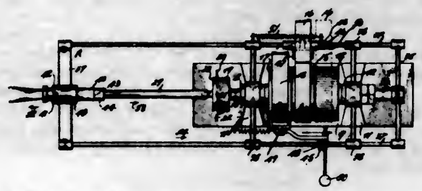
1,354,077. CRUSHING AND PULVERIZING MACHINE. NATHANIEL A. STRATTON, Boston, Mass. Filed Sept. 15, 1919. Serial No. 323,857. 4 Claims. (Cl. 83—10.)

1. A crushing machine comprising a base having a central annular fulcrum and fixed spring abutments spaced outwardly from said fulcrum, a lever adapted to oscillate universally on said fulcrum and having, below the fulcrum, a longer arm, and, above the fulcrum, a shorter conical arm constituting a conical crushing jaw, an annular crushing jaw surrounding the conical jaw, and adapted to slide horizontally on the base in any direction, said jaws forming a tapering annular throat, means for gyrating said lever on its annular fulcrum to cause a progressive contraction of said throat, springs radiating from the annular jaw and seated at their outer ends on said abutments, and segmental brake shoes pressed by said springs against the external surface of the annular jaw,



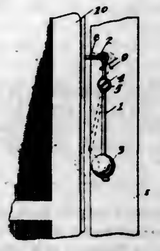
said springs and brake shoes permitting horizontal rectilinear yielding movements of the annular jaw, and preventing a turning movement of the annular jaw by force transmitted from the gyrating conical jaw through material wedged in said throat.

1,354,078. THREAD-CUTTING MACHINE. ANTONY STRUKELL, Brooklyn, N. Y., assignor of one-fourth to Harry B. Dods, Brooklyn, N. Y. Filed Dec. 4, 1919. Serial No. 342,363. 8 Claims. (Cl. 10—89.)



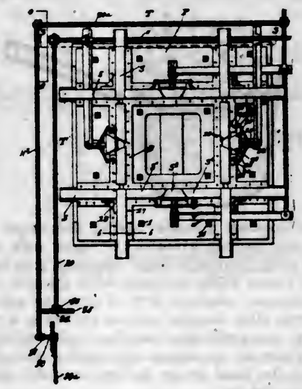
1. In a thread cutting machine, a longitudinally movable carrier to receive the article to be threaded, a chuck in line therewith to coöperate with said carrier to hold the said article while the threads are being cut, said chuck being movable with said carrier, rotatable cutting tools adjacent the carrier, means to rotate the cutting tools, and means to automatically cause the tools to cease operating after a predetermined number of threads have been cut.

1,354,079. DOOR-CHECK. MCGARVEY E. TATE and ROBERT M. TATE, Somerset, Ky. Filed Feb. 27, 1920. Serial No. 361,811. 11 Claims. (Cl. 16—77.)



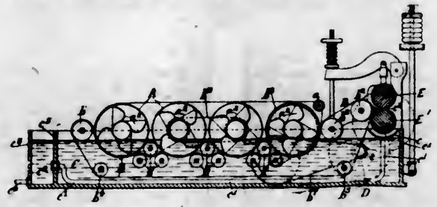
1. A door check, comprising a substantially vertical rod having a pivot between its ends, a bumper carried at the lower end of said vertical rod, and means apart from the bumper for engagement by the door whereby the bumper is at all times positively operated by the movement of the door into the path of the door as the latter is moved into a closed position.

1,354,080. RAILWAY-TRACK CROSSING. BENJAMIN G. VAN DYKE, Jr., Detroit, Mich. Filed Sept. 13, 1919. Serial No. 323,527. 3 Claims. (Cl. 246—381.)



3. In combination, a pair of track rails comprising movable sections and stationary sections, said movable sections being arranged in pairs and movable longitudinally of the rails and capable of occupying active and inactive positions, a third movable section for each pair of sections, all the third movable sections being disposed upon the outer sides of said rails and adapted to be interposed between a pair of movable sections when the latter are in active position, and withdrawn from the same when they are in inactive position, and mechanism arranged upon the outer sides of said rail for moving all of the movable sections of one rail or the other into active or inactive position, said means comprising beams disposed upon the outer sides of the rails and parallel thereto and movable in opposite directions, levers operatively connecting said beams and sections, and superposed rods mounted for reciprocating movement and connected to said beams.

1,354,081. APPARATUS FOR SCOURING, DYEING, OR OTHERWISE TREATING WITH LIQUOR, WOOL, YARN, OR OTHER FIBROUS MATERIAL. HUBERT WALKER, Cleckheaton, England. Filed Dec. 8, 1917. Serial No. 206,149. 4 Claims. (Cl. 8—16.)



1. In apparatus for treating fibrous material with liquor, the combination of a receptacle adapted to contain liquor, a plurality of perforated cylinders arranged to be rotated in a partly submerged condition in the liquor, each of said cylinders containing a number of troughs which during the rotation of the cylinders scoop up liquor from the receptacle, discharge it through the perforations in the cylinder and convey air through the liquor in the receptacle, and a traveling apron arranged to travel in contact with the lower part of the cylinders.

2. In apparatus for treating fibrous material with liquor, the combination of a receptacle adapted to contain liquor, a plurality of perforated cylinders arranged to be rotated in a partly submerged condition in the liquor, each of said cylinders containing a number of troughs which during the rotation of the cylinders scoop up liquor from the receptacle, discharge it through the perforations in the cylinder, and convey air through the liquor in the receptacle, an endless conveyer passing over feed and delivery rollers, under guide rollers and between groups of rollers arranged to cause the conveyer to travel in contact with the lower part of the cylinders, a guide roller situated above one of the delivery rollers and an endless guide tape passing over such guide roller and around the group of cylinders between their ends.

3. In apparatus for treating fibrous material with liquor, the combination of a receptacle adapted to contain liquor, a plurality of perforated cylinders arranged to be rotated in a partly submerged condition in the liquor, each of said cylinders containing a number of troughs which during the rotation of the cylinders scoop up liquor from the receptacle, discharge it through the perforations in the cylinder and convey air through the liquor in the receptacle, an endless conveyer passing over feed and delivery rollers, under guide rollers and between groups of rollers arranged to cause the conveyer to travel in contact with the lower part of the cylinders, a guide roller situated above one of the delivery rollers, an endless guide tape passing over such guide roller and around the group of cylinders between their ends, a pair of squeezing rollers situated in proximity to one of the delivery rollers and a plate arranged to direct the material delivered from the delivery rollers into the squeezing rollers.

4. In apparatus for treating fibrous material with liquor, the combination of a receptacle adapted to contain liquor, a plurality of perforated cylinders arranged to be rotated in a partly submerged condition in the liquor, each of said cylinders containing a number of troughs which during the operation of the cylinders scoop up liquor from the receptacle, discharge it through the perforations in the cylinder and convey air through the liquor in the receptacle, an endless conveyer passing over feed and delivery rollers, under guide rollers and between groups of rollers arranged to cause the conveyer to travel in contact with the lower part of the cylinders, a guide roller situated above one of the delivery rollers and an endless guide tape passing over such guide roller and around the group of cylinders between their ends, a pair of squeezing rollers situated in proximity to one of the delivery rollers, a plate arranged to direct the material delivered from such delivery rollers into the squeezing rollers, a trough situated underneath the squeezing rollers, a compartment situated at the feed end of the receptacle and connected with the trough by a pipe, the said compartment containing a filtering device through which liquid can return to the receptacle, and an aperture for draining purposes.

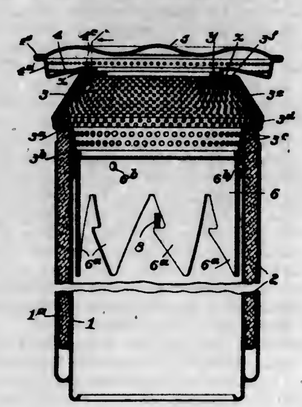
1,354,082. SPRING-MOUNTING FOR VEHICLE-BODIES. CHRIST WESTERGARD, Denbigh, N. D. Filed Nov. 13, 1919. Serial No. 337,798. 2 Claims. (Cl. 267—54.)



1. A device of the character set forth comprising a channel-shaped chassis bar having its channeled side disposed downwardly, an anchoring plate fitted snugly between the side flanges of the chassis bar, said anchor-

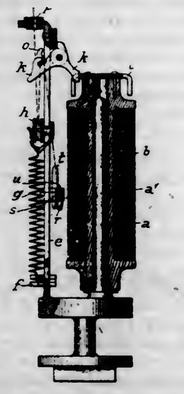
ing plate being provided with a centrally disposed rectangular downwardly projecting portion whose ends form spaced vertical shoulders, a pair of quarter-elliptic springs having pivotal connecting means at their outer ends and having their inner ends bearing against said shoulders and contacting the lower face of the anchoring plate, a clamping plate contacting with the lower sides of said quarter-elliptic springs at their inner ends, and fastening bolts passing through the chassis bar, inner ends of the quarter-elliptic springs and the clamping plate.

1,354,083. AIR-DISTRIBUTER FOR OIL-STOVES. FRED E. WHITE, Gardner, Mass., assignor to Central Oil & Gas Stove Company, Gardner, Mass., a Corporation of Massachusetts. Filed Sept. 11, 1919. Serial No. 323,060. 7 Claims. (Cl. 67—63.)



1. An air distributer for wick stoves having an annular perforated wall and a substantially horizontal annular perforated portion at its upper part, and a distributer cap held above and spaced from said horizontal portion and providing an air distributing space between itself and said horizontal portion.

1,354,084. BOBBIN FOR BRAIDING-MACHINES. CARL WILDI, Wohlen, Switzerland, assignor to The Firm of Argovia A.-G., Mellingen, Switzerland. Filed Sept. 11, 1919. Serial No. 323,217. 5 Claims. (Cl. 28—24.)



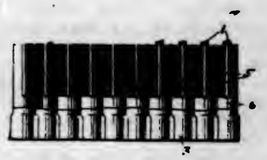
1. In a yarn carrier for braiding machines, a spindle on which the bobbin rotates, a post substantially parallel to said spindle, a thread guard slidable on said post, stops for said guard, tension means and take-up mechanism on the post and connected to said guard, and a locking and releasing member for the bobbin mounted on said post and controlled by the yarn and the take-up mechanism.

1,354,085. COOKING UTENSIL. ANTHONY ZISK, Baltimore, Md. Filed Feb. 20, 1919. Serial No. 278,164. 1 Claim. (Cl. 53—8.)



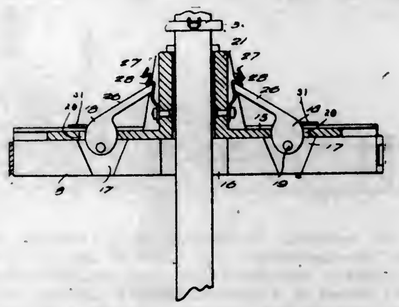
A lid for cooking utensils having the upper portion thereof cut out forming a recess the lower wall of which is provided with relatively large openings, the side edge wall of the recess being provided with grooves, a perforated slide member adapted to fit within the groove, and an imperforate slide member having its edges within the recess above the perforated member and fitting snugly within the edges of the recess and having its upper surface lying in the same plane as that in which the upper surface of said lid lies.

1,354,086. STORAGE-BATTERY ELECTRODE OR PLATE. CORNELIUS AMBEUSTER, Roslyn, Pa. Filed Sept. 4, 1918. Serial No. 252,529. 1 Claim. (Cl. 204—29.)



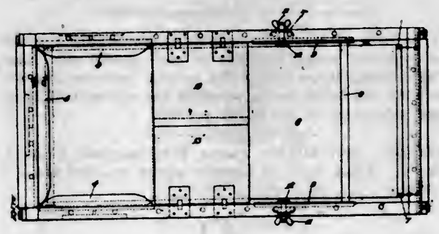
In a storage battery plate or electrode, including metal rods surrounded by active material or material adapted to become active, and in combination therewith, a poured end-connecting bar, and ribbed and slotted insulating tubes inclosing said material and provided at their ends with ribless cuffs adapted to fit corresponding mold cavities, substantially as described.

1,354,087. PIPE-CLAMP. WILLIAM BUEKER, Dewey, Okla. Filed June 21, 1919. Serial No. 305,849. 2 Claims. (Cl. 24—249.)



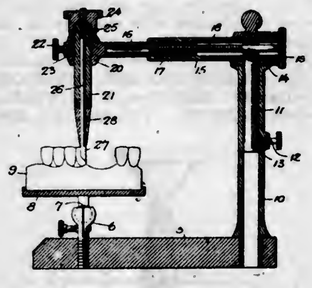
2. A pipe clamp including a base, adjustable clamping elements supported thereon, said clamping elements including body plates, and upright jaws carried by the adjacent terminals thereof, pivoted cams engaging and operating the clamping elements, pawls carried by the cams and spring members carried by the clamping members engageable with the pawls to lock the latter in various adjusted positions to effect various adjustments of the clamping elements.

1,354,088. CHILD'S COMBINATION-COT ADAPTABLE AS PLAY-PEN, &c. ALICE BURCHELL, Mayfield, England. Filed Mar. 30, 1920. Serial No. 369,989. 1 Claim. (Cl. 5—58.)



A device of the class described including in combination, an inclosure frame, a removable bottom therefor, a seat adapted to be supported on the side rails of said inclosure frame and at one end thereof, cushions detachably carried by the side walls of the inclosure frame adjacent the seat position, and a table located adjacent the seat position and consisting of swinging leaves hinged to the opposite side walls of the inclosure frame.

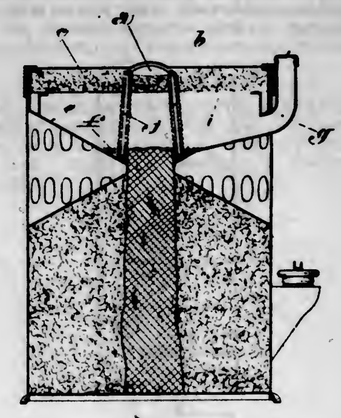
1,354,089. DENTAL TOOL. HENRY CALLSEN, New York, N. Y. Filed Nov. 29, 1919. Serial No. 341,491. 6 Claims. (Cl. 32—10.)



1. In a dental tool, the combination of a base and a tubular upright, a tool carried in a sleeve and parallel with the upright, telescopic means connecting the sleeve with the upright, and means for adjusting and locking the above parts.

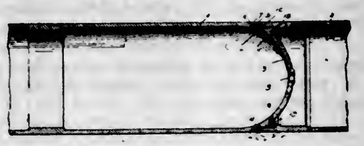
1,354,090. CATALYTIC HEATING APPARATUS. RAMON CAMELL, Rhone, and LAURENT COCHET and JOSEPH GRITTE, Lyon, France, assignors to Societe Lyonnaise Des Réchauds Catalytiques Camell, Cochet, Gritte & Cie. (Société en Commandite), Calure, Rhone, France. Filed June 13, 1919. Serial No. 304,039. 1 Claim. (Cl. 69—15.)

In catalytic heating apparatus, the combination of a container for a catalytic mass, a pellet of spongy platinum in this container, a chamber below said container, means for introducing liquid fuel into said chamber, and means



for supporting a wick extending from the interior of said chamber to the pellet in said container.

1,354,091. FLASK FOR TORPEDOES. ARTHUR HUTCHINSON CHASE and HARRY LUTHER BOESCH, Washington, D. C., assignors to the Government of the United States. Filed Mar. 22, 1919. Serial No. 284,471. 5 Claims. (Cl. 114—20.)



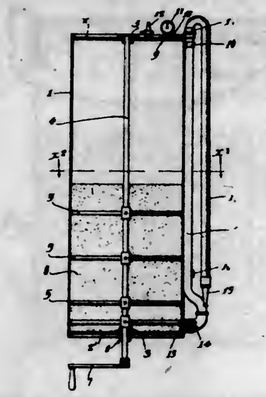
1. An improvement in flasks for torpedoes comprising an air flask, a flask head formed integral with said air flask at its after end and a water compartment adapted to be secured to said air flask.

1,354,092. ENVELOP. JAMES S. CRATE, Houston, Tex. Filed Oct. 20, 1919. Serial No. 331,946. 3 Claims. (Cl. 229—73.)



1. An envelop having on its outer face adjacent one end vertical and horizontal lines forming a vertical column of spaces, retaining devices located centrally in said spaces, said envelop adjacent said column of spaces having a transparent portion and a pocket formed back of the transparent portion and adapted to receive a card containing a column of destination spaces registering with the first-mentioned column of spaces, and a removable indicator adapted to be connected to any of said retaining devices.

1,354,093. DRY-CHEMICAL FIRE-EXTINGUISHER. CHARLES S. DAVIDSON, Los Angeles, Calif., assignor of one-third to Frank M. Pool and one-third to John E. Faber, Los Angeles, Calif. Filed July 2, 1919. Serial No. 308,216. 1 Claim. (Cl. 169—31.)



In a dry chemical fire extinguisher, a container in the form of a cylinder having a port adjacent its lower end, a valve for said port, a tube connected with the valve and extending to the upper end of the container, a hose fastened to the upper end of the tube, bearings in the opposite ends of the container, a shaft extending from end to end of the container and journaled in said bearings and having one end projecting outside of the container, a crank on the projecting end of the shaft, and stirring blades on the shaft extending at right angles thereto inside of the container.

1,354,094. SAFETY-PIN. HARRY S. DOLBEY, Providence, R. I. Filed Mar. 25, 1920. Serial No. 368,528. 3 Claims. (Cl. 24—161.)



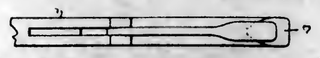
1. A safety pin comprising a piercing arm, an opposing back-arm connected at one end to said piercing arm and having a catch portion at its opposite end, said piercing arm being provided with a flattened stiffening portion adjacent its connected end.

1,354,095. GARTER ATTACHMENT. DAVID C. EVANS, Cincinnati, Ohio, assignor to Pioneer Suspender Company, a Corporation of Pennsylvania. Filed Dec. 12, 1917. Serial No. 206,738. 3 Claims. (Cl. 24—222.)



1. A garter attachment for disengageably connecting the leg band, comprising a stud-carrying element provided with an oval head having a flattened stem mounted thereon, and a coöperating element having an elongated opening for receiving the head and a circular opening spaced therefrom, but connected therewith by a contracted channel for permitting the passage of the flattened stem to the circular opening, the circular opening having a diameter corresponding substantially to the greater dimension of the flattened stem, the respective longitudinal axes of the elongated opening and of the head and its stem being at an angle with each other when the parts are in operative locking position in order that, to disengage the members, the elements must first be arbitrarily moved to bring said axes into alinement, so that the flattened stem may be moved through the channel from the circular opening into the elongated opening.

1,354,096. BUTTLESS KNITTING-MACHINE NEEDLE. WILLIAM FELS, Elizabeth, N. J., assignor to MAX Nydegger, Elizabeth, N. J. Filed Feb. 3, 1919. Serial No. 274,607. 2 Claims. (Cl. 66—5.)



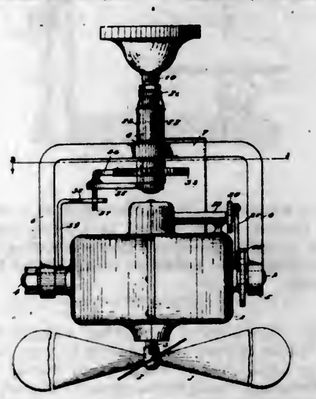
1. A buttless knitting machine needle having a shank and terminal hooks, portions of the opposed side faces of said hooks being flat needle guiding surfaces continuous with and lying in the plane of the corresponding opposed side faces of the shank portion.

1,354,097. END-MILL. JAMES FITZSIMMONS, Baldwin, N. Y. Filed Aug. 27, 1919. Serial No. 320,144. 2 Claims. (Cl. 29—103.)



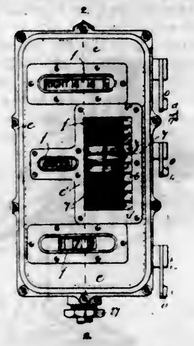
1. A detachable end-mill comprising a shank and a cutter element, the shank having a screw threaded stem terminating in a truncated cone and the cutter having a socket adapted to coöperate with the stem on the shank, substantially as described.

1,354,098. OSCILLATOR FOR ELECTRIC FANS. MAURICE M. GLASSER, Charleston, S. C. Filed Oct. 11, 1919. Serial No. 329,960. 7 Claims. (Cl. 230—1.)



7. In an electric fan, a yoke comprising a body and arms, the yoke being mounted to rotate at its center on an axis perpendicular to the body, the fan having a motor casing journaled between the arms of the yoke to swing on an axis at right angles to that of the yoke's rotation, and means controlled by the oscillation of the motor casing for intermittently moving the yoke on its axis.

1,354,099. ELECTRICAL TRANSMITTING AND INDICATING APPARATUS. EDWARD ALFRED GRAHAM, Brockley, London, England. Filed June 24, 1919. Serial No. 306,501. 3 Claims. (Cl. 177—337.)



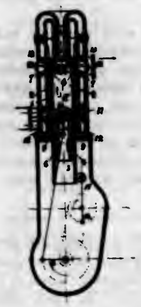
1. Electrical apparatus of the kind referred to, comprising an indicating unit embodying an electric motor, switch mechanism for determining the operation of such motor, a two part casing, an insulating base in one part of the casing, upon which a portion of the switch mechanism is mounted, the remainder being carried by the said part of the casing, terminal pillars upon such base, and tubular contacts associated with the motor but insulated from the indicating unit, adapted to be engaged by the terminal pillars and to support the indicating unit in a manner that will permit it to be placed in position with the motor thereof in proper electrical connection both with the terminal pillars and with the portion of the switch mechanism upon the base, or to be removed, when the casing is open.

1,354,100. ELECTRIC DETONATOR. HARRY L. GRANT and GEORGE HADDOW, Tamaqua, Pa., assignors to Atlas Powder Company, Philadelphia, Pa., a Corporation of Delaware. Filed May 20, 1920. Serial No. 382,979. 2 Claims. (Cl. 102—10.)



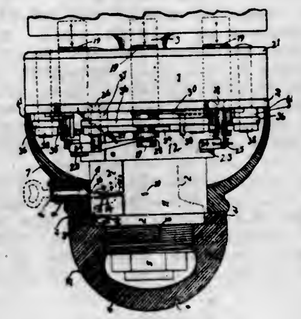
1. In a device of the character described an adapter formed of insulating material and having a central underside cavity therein, an axial opening leading therethrough and in communication with said cavity, grooves upon opposite sides of said passage and communicating therewith, and shoulders at the bottoms of said groove, a strip extending through said passage, fuse wires having their ends located in said grooves with their extremities abutting said shoulders, said wires being united to said strip, and a head of primer composition upon said strip within the underside cavity, of such size as to prevent endwise movement of the strip through said passage.

1,354,101. FOUR-STROKE-CYCLE INTERNAL-COMBUSTION ENGINE. AUGUSTE CLEMENT GRETEN and FRANÇOIS MUSMAN, Luxemburg, Luxemburg. Filed Nov. 14, 1919. Serial No. 337,925. 4 Claims. (Cl. 123—75.)



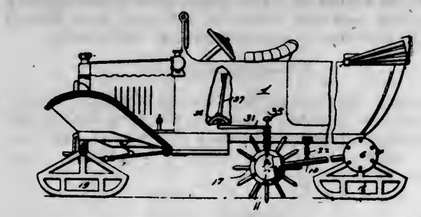
1. An internal combustion engine comprising a cylinder having an exhaust passage, an inlet passage and an air passage, a piston mounted in the cylinder to reciprocate, a sleeve mounted in the cylinder between the piston and cylinder and formed with passages corresponding to those in said cylinder, and means for operating the sleeve, to hold the exhaust passage open during the first part of the downward movement of the piston, to close all the passages during another portion of the downward movement of the piston, subsequently opening the intake passage during farther downward movement of the piston, and thereafter opening the air passage at the lower limit of movement of the piston, and then closing all passages during the next entire upward movement of said piston.

1,354,102. AUTOMOBILE-LOCK. RAYMOND M. GUY, Wichita, Kans. Filed Aug. 21, 1919. Serial No. 318,915. 9 Claims. (Cl. 70—90.)



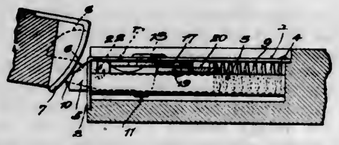
1. An automobile wheel hub, plungers slidably housed therein, a cylinder rotatably mounted on said hub and means actuated by the rotation of said cylinder for sliding said plungers to a desired position.

1,354,103. MOTOR-VEHICLE PROPELLING ATTACHMENT. OTTO E. HAGLUND, Medina, N. D. Filed Nov. 4, 1919. Serial No. 335,671. 3 Claims. (Cl. 180—6.)



2. The combination with a motor vehicle and its rear axle, and propelling mechanism including a propeller wheel, a hanger pivoted on and leading forward from said axle, and driving connections leading from the axle along the support to the propeller wheel; of manually operable mechanism for raising or lowering said propeller wheel or pressing it into contact with the surface at will, and means within said mechanism permitting it to yield against said pressure when the propeller is forced upward.

1,354,104. LOCK FOR AUTOMOBILE-DOORS. GEORGE HARRISON, Jr., Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 5, 1919. Serial No. 335,826. 8 Claims. (Cl. 292—335.)



2. A lock for automobile doors, comprising a casing, a main latch member guided within the casing, a spring which normally projects said member, an auxiliary latch member rockable within the main latch member and having a striking nose and a heel projection, and means engaging said auxiliary member for retracting both members and causing said projection to interlock with the casing and hold said members retracted with the nose of the auxiliary member projected beyond the latch engaging face of the main latch member, whereby when the door is closed said nose will primarily engage the keeper and release the main latch member and allow it to be projected into locking engagement with the keeper.

1,354,105. MERCURY COMPOUNDS OF GLUCOSIDS AND PROCESS OF MAKING SAME. MAX HARTMANN, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Apr. 29, 1920. Serial No. 377,712. 2 Claims. (Cl. 23—24.)

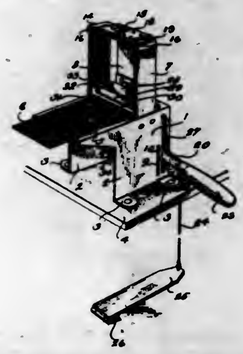
1. As new products the herein described mercury compounds of glucosids constituting white powders soluble in water, but very difficultly soluble in organic solvents.

1,354,106. HANDLE FOR VALVES AND OTHER USES. EDWIN C. HOLTON, Somerville, Mass., assignor to Holton-Abbott Manufacturing Company, West Somerville, Mass., a Corporation of Massachusetts. Filed May 15, 1915, Serial No. 28,325. Renewed Feb. 15, 1919. Serial No. 277,281. 20 Claims. (Cl. 16—171.)



1. A handle comprising a body having a recess, a core of metal cast in place in said recess and having a non-circular passage for the reception of a shank or the like, and a rod or wire mounted in said body to cross a part of said recess, the central part of such rod being embedded in the metal core, and its ends passing into the body at opposite sides of the core, whereby to prevent turning of the core within the body.

1,354,107. SECTION-CLOSER AND FOUNDATION-FASTENER FOR HONEY-SECTIONS. PAUL T. ILLIG, Ebensburg, Pa. Filed Nov. 7, 1918. Serial No. 261,494. 12 Claims. (Cl. 6—12.)



1. In a honey section former and foundation press, the supporting structure including a table having a slot therein, a plate slidably extending through said table slot, a honey section pressure plate carried by the upper end of said slidable plate and adapted to be moved in pressing engagement with a honey section, and a lever pivotally carried by said supporting structure and connected to said sliding plate for operating the same.

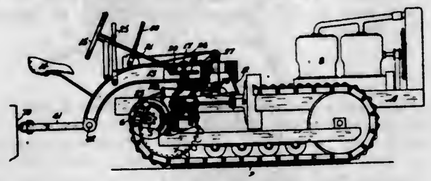
5. In a honey section former and foundation press, the combination of means for forming a honey section comprising a slidablep late having an angled portion on one end, a pressure plate rigidly connected to said angled portion, a second pressure plate adjustably connected to said angled portion and means for moving said slidable plate, said pressure plates having their outer ends angling outwardly and downwardly for guiding engagement with portions of a honey section.

9. In a honey section former and foundation press, a supporting structure including a table provided with an opening adapted to receive therethrough one side of a honey section, a supporting plate carried by said supporting structure beneath said opening and adapted to support the inner surface of one side of a honey section flush with the upper surface of said table, a honey section pressure plate carried by said supporting structure, means for operating said pressure plate, said table adapted to support a sheet of comb foundation forming wax, means operable synchronously with the operation of said pressure plate for affixing a comb foundation to a honey section, means for cutting the comb foundation to proper size carried by said affixing means, a bracket supported beneath said table and adapted to support means for heating the table and the foundation forming wax thereon.

10. In a honey section former and foundation press, a supporting structure including a table, a plate slidably extending through said table, said table provided with an opening adapted to receive one side of a honey section, a supporting plate supported beneath said opening and adapted to support the honey section so that the inner face of the lower side of the honey section will lie flush with the top of said table, a pressure plate carried by the upper end of said slidable plate and adapted to be moved into pressing engagement with the honey section, a lever pivotally carried by the supporting structure and connected to said sliding plate for operating the same, an angled bracket adjustably carried by said slidable plate, and a comb foundation pressing stone carried by said angled bracket.

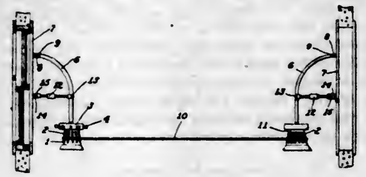
12. In a honey section former and foundation press, a supporting structure including a table, a plate slidably extending through said table, said table provided with an opening adapted to receive one side of a honey section, a supporting plate supported beneath said opening and adapted to support the honey section so that the inner face of the lower side of the honey section will lie flush with the top of said table, a pressure plate carried by the upper end of said slidable plate and adapted to be moved into pressing engagement with the honey section, a lever pivotally carried by the supporting structure and connected to said sliding plate for operating the same, an angled bracket adjustably carried by said slidable plate, a comb foundation pressing stone carried by said angled bracket, a knife adjustably carried by said stone for adjustment toward or from the stone, and means connected to said lever to return it to its normal position after operation thereof.

1,354,108. TRACTOR. JOHN M. JOHNSON, Winters, Calif. Filed Nov. 22, 1917. Serial No. 203,308. 8 Claims. (Cl. 180—92.)



1. In a tractor having a propelling chain track arranged on each side, a divided drive shaft adapted to transmit power to said tracks, means on said shaft for retarding the speed of either track, a hollow post secured on the tractor, a draw-bar adapted to swing horizontally about said post, means on the draw-bar for operating said track retarding means, and means on the draw-bar operable independently of said track retarding means for maintaining the tractor on a straight course when attached to a load.

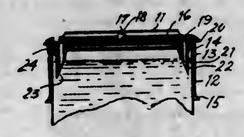
1,354,109. CLOTHESLINE-HOLDER. JOSEPH KISH, Johnstown, Pa. Filed Jan. 7, 1920. Serial No. 349,974. 3 Claims. (Cl. 68—3.)



1. In a device of the character described, a conical pulley spaced means on the conical surface of said pulley for receiving pins therebetween, handles projecting radially from said pulley for rotating said pulley, and a flared bottom end on said pulley for preventing a line passed around said pulley from leaving said pulley.

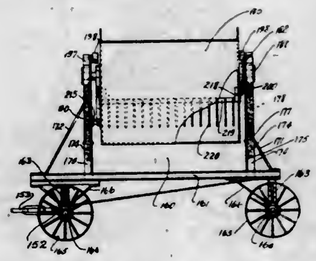
1,354,110. CAN FUNNEL AND SPOUT. TORAKI KITAOKA, Los Angeles, Calif. Filed Apr. 14, 1919. Serial No. 289,969. 3 Claims. (Cl. 221—23.)

1. A can funnel and spout comprising a cylindrical body having beveled ends and a lateral slot, perforating punches integral with the body and having longitudinal ports communicating with the cylindrical body, a rotary valve member mounted in the cylindrical body and having beveled ends corresponding with the ends of the body, said



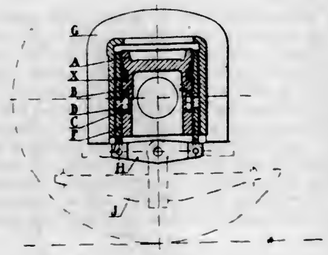
beveled ends covering the ports in closed position, and a handle projecting through said slot and adapted to operate the bolt to open and closed positions.

1,354,111. AUTOMATIC BEET-PULLER. VASILY KOSENKO, New Brunswick, N. J. Original application filed Apr 17, 1919, Serial No. 290,662. Divided and this application filed Mar. 5, 1920. Serial No. 363,596. 3 Claims. (Cl. 298—18.)



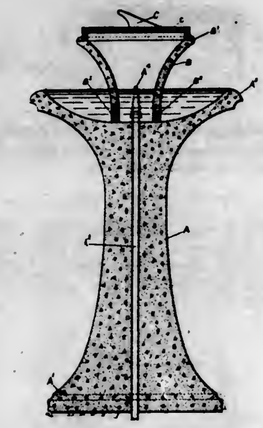
1. The combination with a beet harvester, of a trailer engageable with said harvester, pairs of posts arranged centrally at each end of said trailer, a receptacle journaled between said posts, the journals of said receptacle moving vertically therebetween, resilient means for holding said receptacle in a normally raised position, said receptacle being pivoted at one side of the center, means permitting said receptacle to oscillate upon its axis, means for limiting said oscillating movement, and means for returning said receptacle to its normal position after the discharge therefrom.

1,354,112. AXLE-BOX FOR ADJUSTABLE LOCOMOTIVE-AXLES. PAUL LEFÈBVRE, Brussels, Belgium, assignor of one-half to Societe Anonyme Les Ateliers Metallurgiques, Brussels, Belgium. Filed May 8, 1920. Serial No. 379,940. 5 Claims. (Cl. 105—174.)



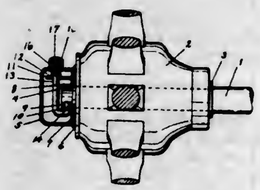
4. In an axle-box for adjustable axles, the combination with a body of an axle-box, guides for the body, links pivotally mounted on the body at one end, rods pivotally mounted on the other end of the links and adapted to slide vertically on said guides, and a rocking lever connecting the ends of said rods.

1,354,113. BIRD-BATH. AMY H. LAVERETT, Alton, Ill. Filed Aug. 16, 1919. Serial No. 317,933. 4 Claims. (Cl. 299—3.)



1. In a bird bath the combination of an open chamber, the sides whereof are perforated, with a fountain adapted to deliver within and play through said chamber and means for supplying water to said fountain, and a cover for said chamber adapted to obstruct the play of said fountain.

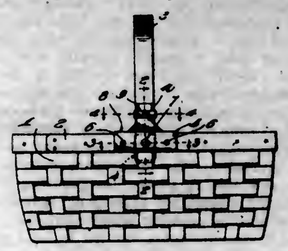
1,354,114. WHEEL-RETAINING SPINDLE-CAP. CHARLES A. LINDBERG, Sturgis, Mich., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Filed Apr. 12, 1920. Serial No. 373,116. 4 Claims. (Cl. 301—120.)



1. The combination with a spindle and wheel, of a spindle cap having a side opening therein, a disk-like member secured in the inner end of said cap and provided with an inwardly projecting flange-like spindle collar and an inwardly projecting arm having an opening therein alined with said opening in said cap, said collar and spindle having registering holes opposite said arm, a locking dog slidable in said hole in said arm and having a cap-like head slidable in said opening in said cap, the inner end of said dog having a return bend therein engaging said holes in said collar and spindle, and a coiled spring arranged on said dog between the said head and supporting arm.

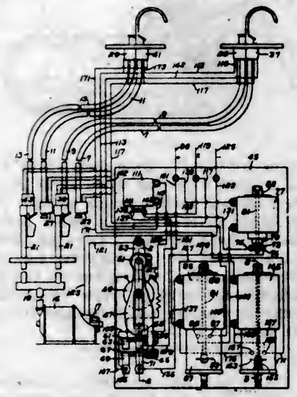
1,354,115. BASKET. WILLIAM B. LOEWENBERG, Converse, Ind. Filed May 5, 1919. Serial No. 294,818. 3 Claims. (Cl. 217—125.)

1. The combination with a basket and an arched handle, of plates secured to one side of the basket rim and shouldered to abut the upper edge of said rim, said plates having tongue portions extending upwardly beyond said rim, pivots connecting the ends of said handle with said plates



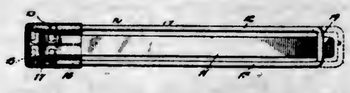
and allowing downward folding of said handle, and means coöperating with said handle and said tongue portions for holding the former in rigid upright position for use.

1,354,116. GOVERNING MECHANISM FOR DESPATCH SYSTEMS. JAMES G. MACLAREN, Mamaroneck, N. Y. Filed Mar. 4, 1918. Serial No. 220,128. 15 Claims. (Cl. 243—7.)



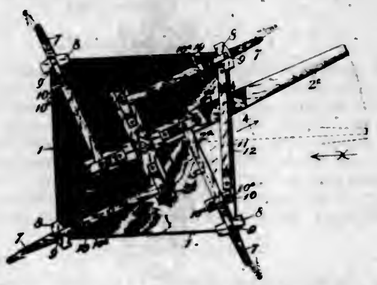
1. Means for governing an electric mechanism in conjunction with the despatch of carriers through a transit tube or the like comprising a circuit closer controlling the energization of the mehanism, electric moving means therefor, a circuit for said means including a circuit closer and a switch arranged to close on the delivery of a carrier, a timed moving device for said second mentioned circuit closer and means to initiate operation of the same on each despatch of a carrier.

1,354,117. HAIR-CURLER. ALFRED V. P. MARTIN, Brooklyn, N. Y. Filed Nov. 11, 1919. Serial No. 337,313. 2 Claims. (Cl. 132—19.)



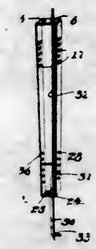
1. As an article of manufacture, a hair curler comprising a curling member around which a strand of hair is adapted to be curled, and a clamping member adapted to clamp the curled strand of hair in position on the said curling member, the said curling and clamping members being slidingly connected with each other at one end to allow of moving the said curling and clamping members lengthwise one on the other, the said clamping member being arranged to swing up and down with the sliding end as the fulcrum to allow of opening and closing the clamping member relative to the curling member, the free end of the clamping member being adapted to pass into interlocking engagement with the free end of the said curling member on moving the clamping member forward on the curling member and while holding the clamping member depressed.

1,354,118. AUTO-TIRE CHANGER. FRANK MARTIN, Chandler, Okla. Filed Oct. 30, 1919. Serial No. 334,573. 2 Claims. (Cl. 157—1.)



1. In a device of the character described, a base plate; a rotatable member mounted thereon; tangential arms longitudinally movable on said plate said arms being pivoted at their inner ends to said rotatable member with their outer ends projecting beyond said base plate; guides for the outer ends of said arms, said guides being mounted on the base plate, said arms having hooks at their outer projecting ends and rim shoes between said hooks and said guides; upper and lower stop bars secured to the base plate at one side of the rotatable member; a handle connected with said rotatable member for operating the same, said handle passing between said stop bars and projecting beyond the base plate, said stop bars having ratchet teeth on their opposing faces for engaging the top and bottom sides of said handle to hold the same in adjusted positions, the teeth on one bar being adapted to hold the handle against movement in one direction and the teeth on the other bar being adapted to hold it against movement in the opposite direction.

1,354,119. EMBROIDERING DEVICE. GEORGE W. MAXWELL, Chicago, Ill. Filed Oct. 20, 1919. Serial No. 331,885. 4 Claims. (Cl. 112—80.)

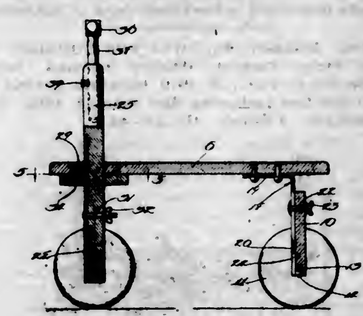


2. A reversible handle for holding embroidery needles, having an opening at one end for a needle of one diameter and having an opening at the other end for a needle of another diameter, said handle further having means adjacent each end thereof to coöperate with a needle to secure the same in the handle, the opening at one end of the handle operating as a guide for the thread passing to a needle held at the other end of the handle.

4. A reversible handle for holding embroidery needles of different diameters consisting of a frame formed of a flat bar bent so as to have two side bars connected at one end by an integral end bar, the opposite ends of said side bars having end bar sections projecting toward each other and forming an end bar for that end of the handle, said first named end bar having a pair of openings therethrough of equal diameter for holding two embroidery needles of equal diameter, said end bar sections each having an opening therethrough, said last named openings being of unequal diameter to enable each of the same to hold an embroidery needle of a different diameter from that of the other, said side bars adjacent each end of the holder having means to coöperate with the embroidery needles to secure the same in the holder.

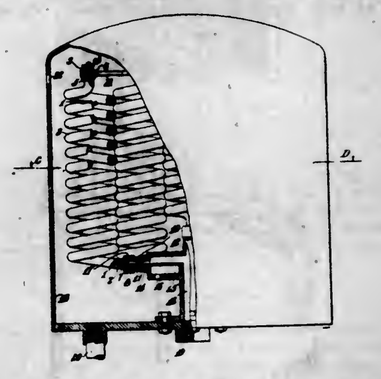
1,354,120. [WITHDRAWN.]

1,354,121. CHILD'S VEHICLE. PAUL O. MORATZ, Bloomington, Ill., assignor to B. Coleman Silver, Chicago, Ill. Filed June 4, 1919. Serial No. 301,835. 3 Claims. (Cl. 208—165.)



3. A child's vehicle comprising, in combination, a platform, supporting wheels for the rear end thereof, a steering post in conjunction with the front end thereof, a steering wheel on the lower end of the steering post, an angle bar having its vertical arm vertically adjusted with respect to the steering post and its horizontal arm beneath and serving to support the front end of the platform, means for retaining said horizontal arm in coöperative position with respect to the platform, and a steering handle in conjunction with the upper end of the steering post, substantially as described.

1,354,122. CONDENSING APPARATUS. JAMES COWAN MORTON, Auckland, New Zealand. Filed Apr. 4, 1918, Serial No. 226,748. Renewed Aug. 23, 1920. Serial No. 405,485. 2 Claims. (Cl. 257—205.)



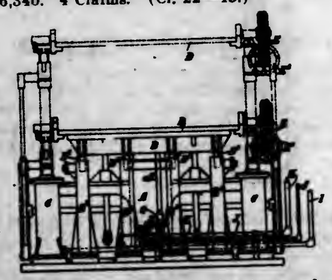
1. A condensing apparatus consisting of sets of coils, in which each coil comprises two tubes, an inner tube of

round cross section and an outer tube of oval cross section, the first mentioned tube being disposed within the last mentioned tube.

1,354,123. TREATMENT OF VULCANIZED INDIA-RUBBER GOODS EMBODYING A FOUNDATION FABRIC. WILLIAM EDGAR MUNTZ, London, England. Filed Jan. 21, 1915. Serial No. 3,653. 6 Claims. (Cl. 18—53.)

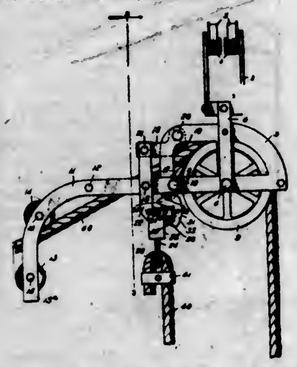
1. A process for neutralizing the sulfurous and sulfuric acids H_2SO_3 and H_2SO_4 and their anhydrous and gaseous forms, generated by the oxidation of the rubber in vulcanized rubber goods having a foundation fabric; which consists in subjecting the said goods to a suitable heat and treating them in a hermetically sealed chamber with undiluted ammonia gas, said treatment taking place under the greatest pressure possible without injury to the goods by disintegration or otherwise, whereby said gas is enabled to impregnate the rubber throughout, and then removing the heat and pressure so as to cause the said gas to remain imprisoned in the elastic pores of the rubber.

1,354,124. MOLDING-MACHINE FOR FOUNDRY USE. JOHN BIRCH NEESHAM, Glasgow, Scotland. Original application filed Jan. 18, 1919, Serial No. 271,898. Divided and this application filed June 24, 1919. Serial No. 306,340. 4 Claims. (Cl. 22—45.)



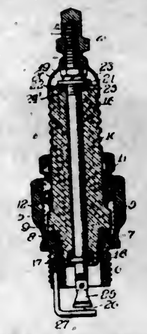
1. A molding machine of the jarring type and operated by fluid pressure, having a molding table, a cylinder with ram therein for raising said table, valve mechanism for controlling the fluid pressure admitted to the said cylinder whereby said table can be automatically raised and then allowed to fall, stationary impact members and means arranged in connection with said impact members to receive the impact of the table each time it falls to produce an equable jarring action throughout said table.

1,354,125. HAY-CARRIER. HENRY S. NUNAMAKER, Canton, Ohio, assignor to The V. L. Ney Hay Tool Company, Canton, Ohio, a Corporation of Ohio. Filed Feb. 28, 1919. Serial No. 279,720. 6 Claims. (Cl. 188—64.)



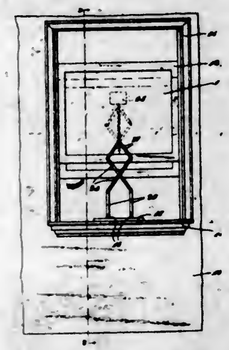
1. A hay carrier provided with a main sheave, an elevating rope connected to said carrier and passing over the sheave and forming a fall and extending away from the sheave at an angle, means for automtically locking the sheave against rotation when a predetermined weight is placed upon the fall of the elevating rope and means for releasing said sheave when a pull is exerted upon the elevating rope.

1,354,126. SPARK-PLUG. WILLIAM O. OLSON, Chicago, Ill., assignor, by mesne assignments, to The Arc-O Manufacturing Co., Inc., Chicago, Ill., a Corporation of Illinois. Filed May 20, 1918. Serial No. 235,566. 1 Claim. (Cl. 123—169.)



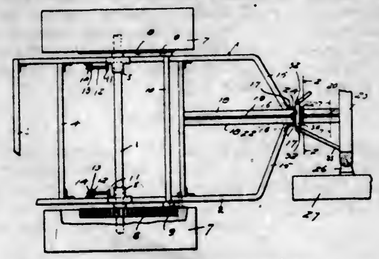
A spark plug having a straight electrode therethrough and provided at its lower end with an axially disposed flattened terminal of non-oxidizing metal having a relatively low heat conductivity, the sparking end of said terminal being arranged transversely of said electrode and extended in length greater than the transverse diameter of said electrode and greater than the width of the terminal back of said sparking end, and another electrode having its terminal arranged beneath and parallel with said sparking end.

1,354,127. WINDOW-WASHING APPARATUS. PETER J. PALUTSKAS, Pittsburgh, Pa. Filed July 20, 1918. Serial No. 245,812. 1 Claim. (Cl. 15—59.)



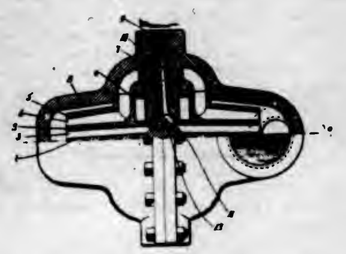
In a device of the character described, a base, a plurality of pairs of lugs secured on said base, two sets of pairwise arranged links, each set pivotally connected to two pairs of said lugs, pairwise arranged crossed bars joined at their point of intersection and pivotally secured to the links of each set, lower and upper cross bars for the rear set, rods connecting the two sets of links, a handle secured to the apex of the front set, rods connecting the upper crossed bars of the rear set and a slotted vertical bar sliding on one of said rods and adapted to carry a wiper at its upper end, substantially as described and for the purpose set forth.

1,354,128. TRACTOR-FRAME. WILLIAM D. PRENTICE, Fargo, N. D. Filed Oct. 25, 1919. Serial No. 333,190. 4 Claims. (Cl. 280—112.)



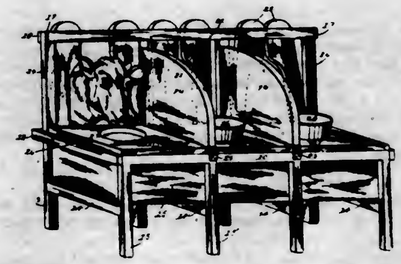
1. A tractor frame including a frame, supporting members secured to said frame, means connecting the frame to the supporting members adjacent the forward ends, a front axle, means connecting the front axle to the supporting members to permit the front axle to have pivotal movement about a horizontal axis, radius rods connected to said axle, and means carried by the supporting members and connected to the radius rods to permit said rods to have pivotal movement about a horizontal axis.

1,354,129. COMBINED CENTRIFUGAL PUMP AND MOTOR. HARRY A. PRINDLE, East Orange, N. J. Filed Aug. 10, 1915. Serial No. 44,679. 27 Claims. (Cl. 103—69.)



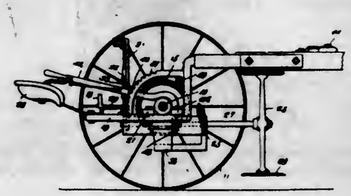
1. In a turbine, a casing, a runner having opposite axial projections mounted in recesses in said casing, opposite gas supply passages communicating with said recesses, and opposite gas turbine passages in said runner communicating with said recessca.

1,354,130. CATTLE-FEEDING TROUGH. JOHN RUDZINSKAS, Muskegon, Mich. Filed Mar. 13, 1920. Serial No. 365,376. 2 Claims. (Cl. 119—27.)



1. A manger comprising a frame, a box supported in said frame, said frame being extended upwardly on one side to form a headstall, said headstall being divided into sections, a cover for said box hinged to said frame and having fixed thereon a plurality of quadrantal partitions located in juxtaposition to the dividing lines of the sections of the headstall.

1,354,131. COTTON-CHOPPER. WILLIAM D. RAINEY, Lockesburg, Ark. Filed Aug. 19, 1919. Serial No. 318,449. 1 Claim. (Cl. 97—46.)



In a cotton chopper, a shaft having wheels, a gear wheel rotatably mounted on the shaft, means for communicating motion of the shaft to the gear wheel, a bearing for a chopper shaft, a member supported on the shaft and having a recess in its lower side, a trunnion pin projecting upwardly from the bearing and extending into the recess of the last mentioned member, a downwardly extending shaft on said bearing, an arm in which the last mentioned shaft is trunnioned, a frame carrying the arm, said frame being supported from the first mentioned shaft, a pinion mounted on the last mentioned shaft and meshing with the gear wheel, a chopper shaft journaled in its bearing and extending rearwardly thereof, a lever engaging the rearward extension for adjusting the shaft transversely of the frame, and a chopper head mounted on the forward end of the chopper shaft.

1,354,132. INSECT-ESCAPE FOR SCREENS. JOHN P. REILY, St. Louis, Mo. Filed Apr. 24, 1920. Serial No. 376,191. 3 Claims. (Cl. 156—37.)

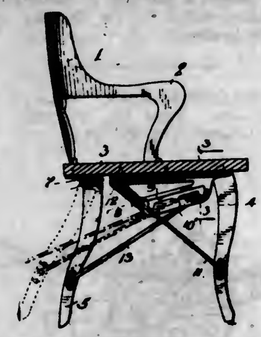


3. As a new article of manufacture, a fly escape for screens comprising a hollow cone formed from a single piece of sheet metal open at its base and pointed at its apex whereby it may be forced through a screen, and fingers projecting laterally from the base of the cone, whereby it may be attached to a screen.

1,354,133. CHAIR. HAROLD ROWNTREE, Kenilworth, Ill., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Sept. 1, 1917. Serial No. 189,397. 8 Claims. (Cl. 155—77.)

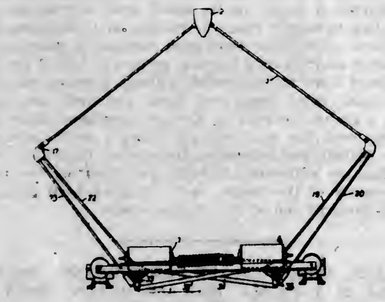
1. The combination with a seat, a back, and front support rigidly secured together, a rear support pivotally

connected to said seat, and a single bracket carried beneath said seat at the approximate center thereof and



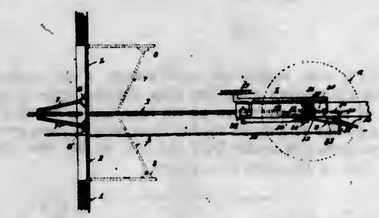
adjustably connected to said rear support for controlling the degree of pivotal movement thereof relative to said seat.

1,354,134. PANTOGRAPH-TROLLEY. WILLIAM SCHAAKE, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 29, 1915. Serial No. 64,043. 8 Claims. (Cl. 191—65.)



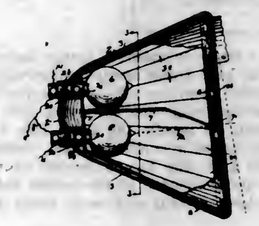
1. In a trolley, the combination with a pantograph frame, a contact shoe mounted upon said frame, and shafts for supporting said frame, of cams mounted upon said shafts, and vacuum-actuated mechanisms comprising cylinders, vacuum-actuated pistons operating within said cylinders and flexible connections between said cams and said pistons.

1,354,135. DOOR OPENING AND CLOSING DEVICE. VALENTINE SCHILDWACHTER, Peoria, Ill. Filed Feb. 27, 1919. Serial No. 279,477. 5 Claims. (Cl. 268—9.)



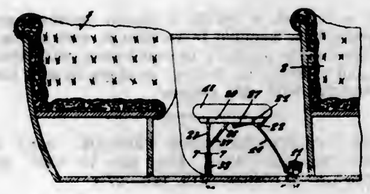
1. In combination with a door, an apparatus for opening and closing the same including a rigid member extending perpendicularly to the plane of the closed door, a guile to direct the movement of the member, an arm pivoted at one end to the member and at its other end to the door, a crank-arm operatively connected to the member adapted in the movement thereof to open or close the door, an electric motor adapted to be set in operation including a circuit-breaker, a lever-arm in control of the latter, gearing interposed between the motor and the crank-arm, and a track portion rotatable with the gearing adapted to hold the circuit-breaker closed through said lever-arm and also adapted to cause the circuit-breaker to be opened at a predetermined period in the movement of the crank-arm.

1,354,136. HEADLIGHT. EDWARD SCHUYLER, Syracuse, N. Y. Filed Nov. 4, 1919. Serial No. 335,598. 3 Claims. (Cl. 240—41.)



1. A no-glare head-light, including a conical reflector having a closed end arranged in vertical plane and provided with a reflecting surface, said reflector being formed with a plurality of wedge-shaped plane surfaces which taper from its open end to its plane end, a pair of electric lamps supported by said plane end, and a partition dividing the interior of the reflector horizontally and separating said lamps, the free end of said partition declining forwardly for restricting the rays of the lowermost lamp to the level of the horizontal axis of said lamp, and the top and bottom surfaces of said partition being polished for reflecting the rays from the corresponding lamps.

1,354,137. AUXILIARY SEAT. JOHN K. SHANAMAN, Annville, Pa. Filed July 10, 1917. Serial No. 179,686. 3 Claims. (Cl. 155—13.)



1. An auxiliary seat including front and rear legs pivotally connected to the seat, a crank shaft upon the front and rear legs for swinging the legs against one face of the seat when the seat is swung downwardly and forwardly relative to the front legs, and spring controlled lever and link connections between the front legs and the supporting structure for holding the seat yieldingly in folded position.

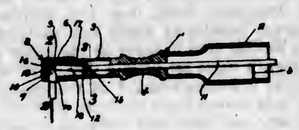
1,354,138. SHOE-HEEL. SAMUEL G. SHAPIRO, New York, N. Y. Filed Sept. 20, 1919. Serial No. 325,249. 2 Claims. (Cl. 36—40.)

1. In combination, a metal heel having an opening therethrough, said opening being constricted intermediate its length; a plug of yieldable material to fit within said opening and extend through the constricted part of the latter; means independent of the latter to secure said plug, a flange integral with said plug adapted to rest



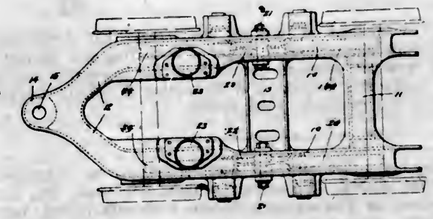
against the bottom portion of said metallic heel body and an integral portion of said plug below said metallic heel body shaped to form a tread.

1,354,139. HANDPIECE. WILLIAM F. SHAW, Denver, Colo. Filed July 2, 1920. Serial No. 393,504. 2 Claims. (Cl. 32—15.)



1. In a device of the class described, a holder; a shaft journaled in the holder and provided with a crank; and a U-shaped tool carrier comprising arms, one of which is mounted on the shaft, the other of which is mounted on the crank.

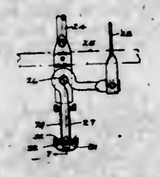
1,354,140. FRONT TRUCK FOR LOCOMOTIVES. WILLIAM M. SHEEHAN, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 11, 1919. Serial No. 316,805. 12 Claims. (Cl. 105—82.)



6. In a front truck for locomotives, a frame having side members, the rear ends of which are connected to form a radius bar, a plurality of wheel carrying axles journaled in said frame and locomotive frame supporting bearings on the side members of the truck frame between the wheel carrying axles.

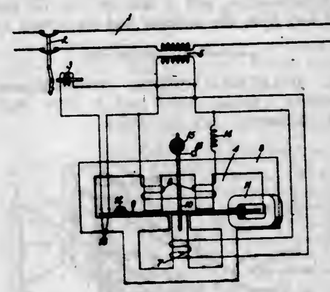
1,354,141. CHILD'S-VEHICLE CONSTRUCTION. WILLIAM J. SLEFFEL, Lakewood, Ohio, assignor to The Kirk Latty Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 17, 1919. Serial No. 277,484. 2 Claims. (Cl. 208—114.)

1. In a vehicle of the class described, the combination of an axle having vertical pins moutted adjacent either end thereof, wheel spindles bent and crimped around said pins to swing horizontally about the same, said spindles extending outwardly in line with said axle from said



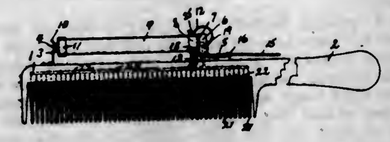
pins, and also rearwardly therefrom in parallel relation, and wheels mounted on the outwardly extending portion of said spindles.

1,354,142. ELECTRICAL PROTECTIVE DEVICE. BENJAMIN H. SMITH, Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 5, 1916. Serial No. 89,068. 10 Claims. (Cl. 175—338.)



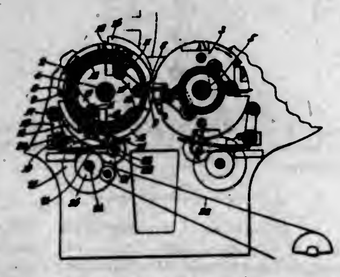
1. A relay for an electric circuit comprising a magnetizable core member, two cooperating parallel-connected current windings therefor, and an armature, portions of the core member being adapted to become magnetically saturated when a predetermined current traverses the circuit whereby the phase relation of the currents traversing the two windings so shifts that the armature develops a substantially constant torque for all values of current above the predetermined value.

1,354,143. HAIR-COMB. JOHN S. STEWART, Youngstown, Ohio. Filed May 20, 1920. Serial No. 382,980. 1 Claim. (Cl. 132—8.)



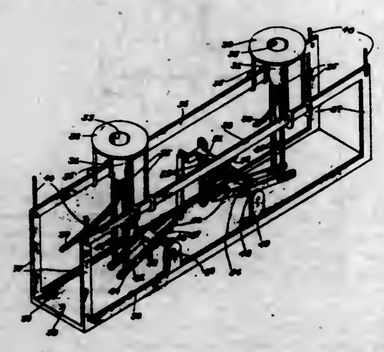
In a device of the class described, a comb having a bracket spring mounted at the outer end thereof, an upright portion, a channel therein positioned so that one end opening registers with an opening in an end cap of an oil reservoir when shifted to give exit to oil in said reservoir, a spring attached to said upright portion, an oil reservoir secured between said springs, an end cap, an opening near the circumference of said end cap, a lever for shifting the inner end of said oil reservoir, a manifold within the body portion of said comb, central openings in teeth of said comb, substantially as described for the purpose set forth.

1,354,144. DELIVERY MECHANISM. CLYDE E. SWICK, San Francisco, Calif., assignor to Hawley Pulp and Paper Company, a Corporation of Oregon. Original application filed Oct. 8, 1915, Serial No. 54,828. Divided and this application filed Mar. 16, 1918. Serial No. 222,857. 13 Claims. (Cl. 271—87.)



11. In combination, a paper folding roll, a stripper for stripping the folded paper therefrom, a stationary tumbler coöperating with the stripper to hold the folded web of paper therebetween, and a tumbler arm for removing the folded web from the stripper and stationary tumbler.

1,354,145. MILKING-MACHINE. DYON TEHUE, Calgary, Alberta, Canada. Filed Sept. 5, 1919. Serial No. 321,850. 5 claims. (Cl. 31—100.)



1. A milking machine comprising a portable frame adapted to be secured in operative position, a plurality of pliable teat cups adjustably mounted in said frame, said teat cups having an elliptical longitudinal section, rigid rings encompassing said cups, and means for manually actuating said rings whereby said teat cups are compressed.

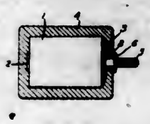
2. A milking machine, comprising a portable frame, means for securing said frame in position, teat cups adjustably engaged in said frame, said teat cups being of pliable material, manually operable levers mounted on said frame, rigid rings arranged circumjacent to the smaller portions of said teat cups, and adapted to compress the same as they are moved longitudinally thereon, means combined with said levers for operating said rigid rings, and flexible tubular connections from each of said teat cups leading to a container.

3. In a milking machine, the combination with a frame, means for supporting said frame, and a plurality of pliable teat cups adjustably mounted in said frame, of rings movable circumjacent of said cups and adapted to produce a compressive effect, therein manually operated means for actuating said rings, tubes extending from said cups, valves arranged in said tubes, a container, tubular connections extending from said container to said tubes and means for producing a partial vacuum in said container.

4. In a milking machine, the combination with a movable frame, means combined therewith for attaching said frame in operative position, said frame having a pair of rails in its upper portion, pliable teat cups adapted to receive the teats of an animal, connections from said cups to said rails whereby they may be moved longitudinally thereon, rings surrounding said cups, said rings being adapted to compress said cups as they are moved longitudinally over their surface, levers in said frames whereby said rings are moved alternately over the surface of said teat cups, a container, a gage in said container by which the contents may be visibly ascertained, flexible tubes extending from said container, a valve therein, and means for producing a partial vacuum in said container.

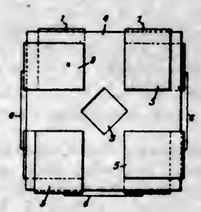
5. In a milking machine, the combination with a support frame, and means for engaging said frame with an animal, of a plurality of longitudinally disposed rails formed with said support frame, pliable teat cups adjustably arranged on said rails, said teat cups having an enlarged central portion, rigid rings disposed to encircle said cups, links extending from said rings, a lever engaged with said rings, means for actuating said lever, said lever being fulcrumed on said frame, a hollow container adapted to be sealed air tight, a gage by which the contents of said container may be visually ascertained, means for dispensing liquid from said container at the bottom thereof, handles by which said container may be operated, a flexible tube engaged at the upper portion of said container, a valve set in said tube, said tube having a plurality of branches engaged at the opposite end of said valve, said branch tubes engaging with the lower extremity of said teat cups, and independent valves set in each of said tubes whereby the passage therethrough may be individually controlled.

1,354,146. CONDENSER. PHILLIPS THOMAS, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 25, 1919. Serial No. 279,090. 6 Claims. (Cl. 250—41.)



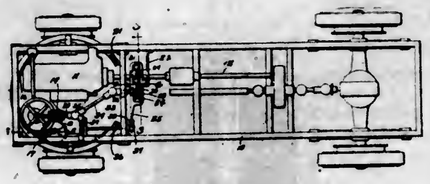
5. A method of making condensers that comprises superimposing alternate layers of insulating and conducting material, securing terminals to the respective layers of conducting material and die-casting a metallic casing about the condenser thus formed.

1,354,147. CONDENSER AND METHOD OF MAKING THE SAME. PHILLIPS THOMAS, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 7, 1919. Serial No. 281,161. 7 Claims. (Cl. 250—41.)



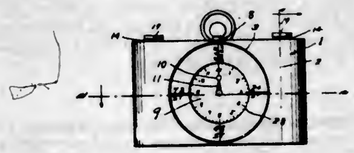
1. A condenser comprising a plurality of condenser units having a common dielectric provided with a central opening and connected in series and a casing therefor.

1,354,148. POWER-DRIVEN TRUCK STEERING-GEAR. DANIEL T. TIMBERLAKE, St. Louis, Mo., assignor to Universal Motor Truck and Traction Engine Company, St. James, Mo., a Corporation of Missouri. Filed Dec. 16, 1918. Serial No. 267,008. 6 Claims. (Cl. 180—81.)



2. In a motor truck, a main frame, a motor carried thereby, a secondary frame arranged for revoluble movement beneath the front portion of the main frame, a front axle and wheels carried by said secondary frame, a segmental rack on said secondary frame, a pinion meshing with said rack, a rocking frame provided with a friction disk, drive connections from the shaft of the motor to said disk, transmission means between said disk and pinion and means for actuating said rocking frame whereby the friction disk will cause movement to be imparted to the aforesaid pinion.

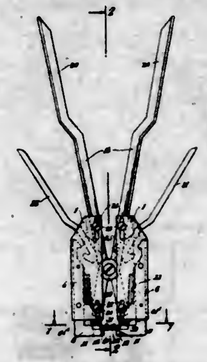
1,354,149. STREET-INDICATOR. CHRISTOPHER TEEANOR, Oakland, Calif. Filed May 5, 1920. Serial No. 379,053. 3 Claims. (Cl. 116—131.)



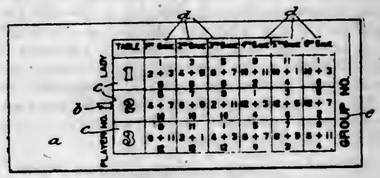
1. In a street indicator of the class described, the combination with a case having an opening in its front wall and a clock carried in the case with its dial in axial alinement with said opening, of a pair of vertically disposed reels carried inside the case and disposed one on each side of the clock, and a ribbon disposed between the dial of the clock and said front wall, the ribbon being windable from one of said reels onto the other thereof and provided with a plurality of circular openings extending through from one side to the other, and means for rotating said reels for moving said ribbon across said dial so that one of said last named openings may be brought into axial alinement with said dial and said first named opening.

1,354,150. BENDING DEVICE FOR STRAP-FASTENERS. ALEXANDER L. WARD, New York, N. Y. Filed Jan. 10, 1919. Serial No. 270,448. 6 Claims. (Cl. 81—15.)

1. In a bending device, the combination of a pair of levers pivotally secured together to constitute pliers, a pair of members having vertical portions and horizontal foot portions, adapted to extend beneath said levers and to form a support for a band, said members being so secured to said levers as to move toward and away from each other as said levers are closed and opened and to be capable of vertical movement, relatively to said levers, said foot portions being so positioned relatively to said levers, normally, that closing movement of said levers will cause the lower ends of said levers to press vertical flanges of a band on said foot portions toward each other, and lever means pivoted to said pliers and adapted, when said first levers are closed to press said first levers downwardly relatively to said vertical members, to cause flattening of said band flanges between said foot portions and the lower ends of said first levers.

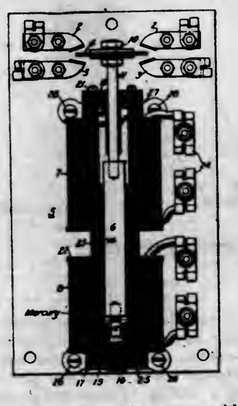


1,354,151. TALLY-CARD. WILLIAM W. WHITE, New York, N. Y. Filed May 5, 1917. Serial No. 166,570. 3 Claims. (Cl. 283—1.)



1. A set of tally cards, each card bearing marks indicating to the player holding that card the position the said player is to occupy at each of a series of tables for a predetermined number of games and the arrangement of all of the players at each of said tables for each of said games.

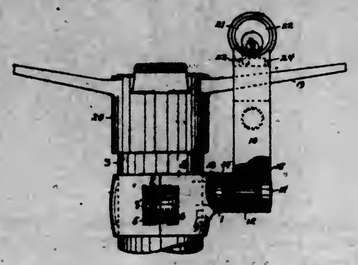
1,354,152. RELAY DEVICE. CHARLES C. WHITTAKER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 19, 1917. Serial No. 175,595. 10 Claims. (Cl. 175—337.)



1. A relay device comprising a movable magnetizable core member, two windings for actuating the core member

in opposite directions and a body of mercury for so supporting the core member that it may be acted upon with equal promptness by both windings.

1,354,153. LOCK FOR STEERING-WHEELS. JOHN WILDING, Fort Wayne, Ind. Filed July 23, 1919. Serial No. 312,756. 3 Claims. (Cl. 70—129.)

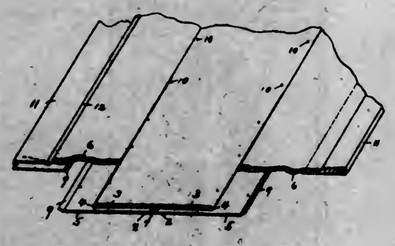


1. In a device for locking a steering wheel from turning upon its column, an internally recessed base member adapted to be immovably secured upon the column closing the interior thereof; a pair of shackles, one of which contains a lock and the other having a jaw adapted to be engaged by the lock when the shackles are in closed position; a screw for each of the shackles affording pivotal support therefor at its lower end and extending into the recessed base; and means concealed within the recessed base for securing the screws in place, said shackles being shaped so as to encompass one of the arms of the steering wheel when in locked position.

1,354,154. POTENTIALLY-REACTIVE COMPOSITION AND PROCESS OF MAKING SAME. LEO H. BAEKELAND, Yonkers, N. Y., assignor to General Bakelite Company, New York, N. Y., a Corporation of New York. Filed Oct. 31, 1919. Serial No. 334,850. 16 Claims. (Cl. 106—22.)

7. A potentially reactive composition containing a phenol resin and a methyleneamin-phenol.

1,354,155. SEAM AND EDGE BINDER FOR FLOOR-COVERINGS. FRANK R. BARCLAY, Youngstown, Ohio. Filed Mar. 4, 1920. Serial No. 363,293. 1 Claim. (Cl. 16—70.)



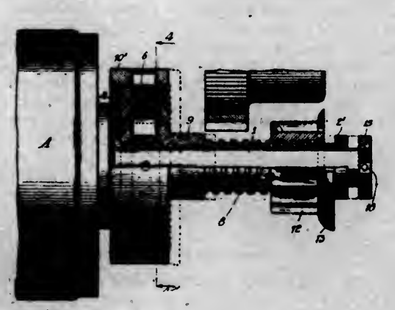
In a device of the class described, having in combination with a binder comprising a base portion, an upright portion, a top portion, sharp corners formed at the turns made in forming the top portion and the base portion, thereby forming a trough portion when reversed, down turned flanges on the flattened top portion, substantially as described for the purpose set forth.

1,354,156. MOLDING PROCESS AND APPARATUS. ARTHUR J. BASTIAN, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 7, 1917. Serial No. 167,184. 4 Claims. (Cl. 154—1.)



1. The process of producing molded articles that comprises superposing in a mold a plurality of bodies of moldable material separated by plates conforming in outline to the shape of the mold, each of the bodies of moldable material being composed of sheets of fibrous material associated with a binder that is adapted to soften when heated and to harden under the influence of pressure and further heat, and applying heat and pressure simultaneously to all of the superposed bodies.

1,354,157. ENGINE-STARTER. VINCENT BENDIX, Chicago, Ill. Filed Dec. 18, 1918. Serial No. 267,281. 10 Claims. (Cl. 74—7.)



1. In an engine starter, a drive or transmission comprising a driving shaft, a driving head secured thereto, a sleeve mounted on the shaft for rotary movement therewith and with respect thereto, and having a driven head coöperating with the other head, said two heads being concentric of each other, a spring coöperating with the two heads and forming a driving connection between them, and a driving member mounted on the sleeve for longitudinal movement thereof and rotary movement therewith.

1,354,158. REFLECTING LAMP SHADE AND GLOBE. ERNEST M. BENNETT, Prahran, Melbourne, Victoria, Australia. Filed Dec. 20, 1918. Serial No. 267,626. 2 Claims. (Cl. 240—106.)



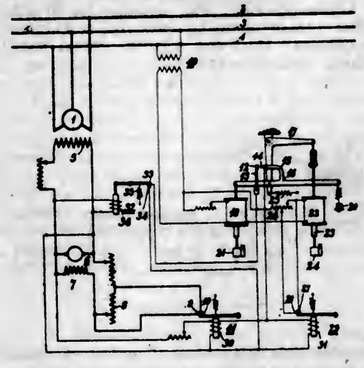
2. A lamp shade or globe of transparent glass, having a reflecting medium covering its exterior surface, and provided on its interior with integral, inwardly-extending multi-sided projections, the sides of said projections being of concave formation.

1,354,159. PIN-ATTACHED SEPARABLE FASTENER. IDA V. BENOIT, Brooklyn, N. Y. Filed Apr. 10, 1918. Serial No. 227,789. 7 Claims. (Cl. 24—88.)



1. In a separable fastener, a head member, and a socket member, said socket member comprising a pin adapted to be passed at least once through the material and back again and resilient gripping means integrally connected to said pin and adapted to receive the head member.

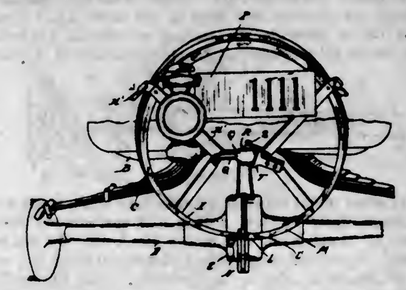
1,354,160. ELECTRICAL REGULATOR. CLARENCE A. BODDIE, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 28, 1917. Serial No. 157,930. 6 Claims. (Cl. 171—229.)



6. The combination with a dynamo-electric machine and an exciter therefor, of a regulator of the vibratory type for the field strength of the exciter and means intermittently operated under certain conditions for modifying the operation of the regulator when the exciter voltage exceeds a predetermined value.

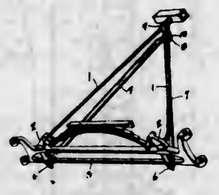
1,354,161. DEMOUNTABLE-RIM SUPPORT FOR MOTOR-VEHICLES. WILLIAM N. BOOTH, Detroit, Mich. Filed July 23, 1917. Serial No. 182,179. 10 Claims. (Cl. 224—29.)

1. In a motor vehicle, the combination with a frame having a rear cross-bar, a spring for supporting the same and clips for securing said frame to said cross-bar, of a tire-holder in rear of said frame, and a support for



said tire-holder comprising angle bars secured by said clips, the rear ends thereof being split and bent to form supporting braces for said holder.

1,354,162. FRONT-AXLE BRACE. ALLEN E. BOSLEY, St. Louis, Mo. Filed Mar. 24, 1919. Serial No. 284,612. 2 Claims. (Cl. 267—66.)



1. The combination with radial brace rods of an automobile which are connected at their forward ends to the front axle of the automobile and which converge and are connected together at their rear ends and terminate in a ball or universal connection to a part of said automobile, a member embracing said ball and extending between the crotch of said brace rods, and auxiliary brace rods connected to said member and to the front axle of said automobile.

1,354,163. VEHICLE-WHEEL. HENRY F. BRANDT, Peoria, Ill. Filed Oct. 13, 1919. Serial No. 330,459. 2 Claims. (Cl. 301—52.)

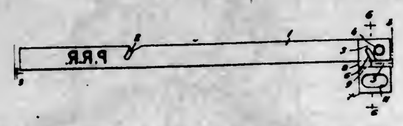


1. In a vehicle wheel, a pair of rim portions each including a flange at one edge, spaced members integral with the rim portions securing them in rigid spaced relation, said members extending beyond the outer edges of the rim portions, a detachable flange engaging over the extensions of the members and supported upon them, a tread portion carried by each rim portion, means for clamping the tread portions in position, and spaced lugs lying between the first named flanges inward from the tread surfaces of the said tread portions.

1,354,164. SHACKLE-SEAL. WINFRED MUDGE BROOKS, West Orange, N. J. Filed Apr. 28, 1920. Serial No. 377,227. 2 Claims. (Cl. 292—322.)

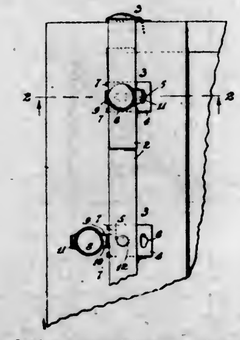
1. A shackle seal comprising: a sheet metal blank in strip form having, near one end thereof, a notch in one

of its side edges, a sheet metal sealing member, superimposed on said sheet metal blank near its other end, having a notch complementary to the first and disposed adjacent the opposite side edge of the sheet metal blank, means for so securing the sealing member to the sheet metal blank as to admit of the introduction of a thick-



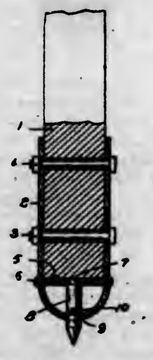
ness of sheet metal between the two, said blank being bent back upon itself to form a loop and the notches interlocked, by crossing one end of the blank over the sealing member, to prevent longitudinal displacement of the two ends of the strip, and a lug projecting from the sealing member beyond one of the side edges of the sheet metal blank to be folded over the interlocked parts.

1,354,165. SEALING MEANS. WINFRED MUDGE BROOKS, West Orange, N. J. Filed July 14, 1920. Serial No. 396,166. 3 Claims. (Cl. 292—325.)



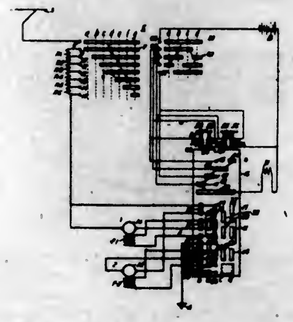
1. A sealing device comprising: a sheet metal blank consisting of a body portion, a head connected to said body portion by a weakened neck, said head being doubled over the body portion by bending the neck, and a piercing lug extending at an angle from the free end of the head toward the plane of the body portion when the parts are bent up.

1,354,166. LADDER-FOOT. JOSEPH E. BUSKO, Pittsburgh, Pa., assignor to Safety First Supply Company, a Corporation of Pennsylvania. Filed May 24, 1920. Serial No. 383,712. 8 Claims. (Cl. 228—61.)



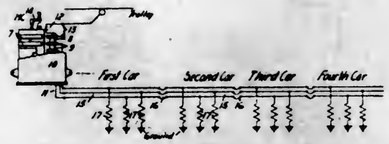
1. In combination in a ladder foot, a U shaped member adapted to fit around the end of the side bar of a ladder, means for securing the sides of said member to said end of the side bar, a transverse bar secured at its ends to the sides of the U shaped member, and provided with a socket and a prong secured removably in said socket with its end extending through the curved portion of the U shaped member.

1,354,167. CONTROL SYSTEM. ANDREW H. CANDEE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 3, 1917. Serial No. 184,244. 5 Claims. (Cl. 172—179.)



4. In a system of control, the combination with a plurality of rotatable control drums, of plural means biased to lockingly engage the end surface of one drum in different positions thereof, said means being successively electrically released by another drum.

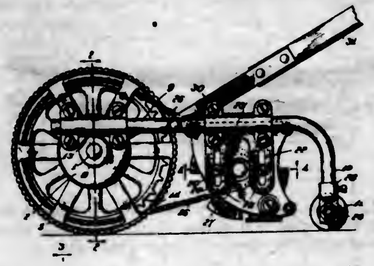
1,354,168. SYSTEM OF CONTROL. JOHN A. CLARKE, Jr., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 3, 1917. Serial No. 194,427. 5 Claims. (Cl. 172—179.)



1. In a multiple-unit system of control, the combination with a common controller for such units and a magnetic-blowout coil for said controller, of means comprising a resistor that is bodily movable to shunt said coil to maintain a substantially constant current therein, irrespective of the number of series-related control units.

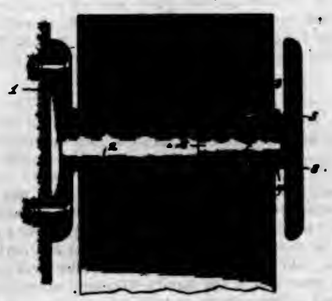
1,354,169. LAWN-MOWER. HARRY T. COLDWELL, Chicago, Ill., assignor of one-half to George A. Sanford, Morristown, N. J. Filed Oct. 6, 1919. Serial No. 328,899. 11 Claims. (Cl. 56—249.)

1. A lawn mower comprising in combination, a frame, a pair of tractor wheels supporting the same, cutting mechanism geared to said tractor wheels, means permitting vertical adjustment of the cutting mechanism on the frame, and separate means permitting adjustment of the cutting mechanism on the frame toward and from the tractor wheels to compensate for variations in the distance be-



tween the cutting mechanism and tractor wheels due to vertical adjustment, substantially as described.

1,354,170. TOILET-PAPER FIXTURE. FRED WESLEY COOK, North Chicago, Ill., assignor to Chicago Hardware Foundry Company, North Chicago, Ill., a Corporation of Illinois. Filed Oct. 29, 1919. Serial No. 334,318. 3 Claims. (Cl. 211—31.)



1. The combination in a toilet paper fixture, of telescoping fixed and removable sections, the fixed section comprising a head formed with orifices for the passage of attaching screws and a tubular shank extending centrally from said head and provided with a notch in its free end, the removable section comprising a circular head and a stem extending centrally from the head and adapted to fit the bore of the tubular shank of the fixed section, said removable section having a stop lug adapted to engage the notch of the tubular shank aforesaid and hold the parts from independent turning movement, and means associated with said stem and shank for locking the sections together.

1,354,171. TONE-MODIFIER. EARL F. COPP, Montclair, N. J. Filed Apr. 29, 1920. Serial No. 377,429. 9 Claims. (Cl. 274—27.)



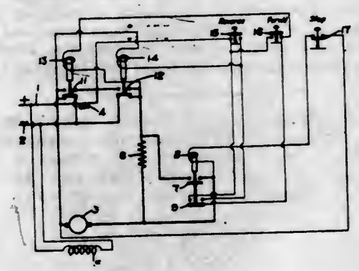
1. A tone modifier for phonographs comprising tone modifying means operable to engage successively smaller areas of the diaphragm of a sound box, and a control device for thus operating said tone modifying means to successively reduce the free vibrating area of the diaphragm.

1,354,172. AUTOMOBILE-LOCK. JOHN COURTNEY, Mark Center, Ohio. Filed Oct. 15, 1918. Serial No. 258,202. 1 Claim. (Cl. 70—126.)



A locking device for automobiles having three pedals, comprising two elongated arms of different lengths which are straight for the greater portion of their length to engage with both sides of the three pedals and hold the pedals in alinement with each other, each arm near one end terminating in a curve, a hing connecting the curved ends of the arms, each arm terminating at the unhinged end in an eye, with the arms, eyes and hinge all in substantially the same plane, and a closed link pivotally carried by the eye of the shorter arm and movable over the end of and embracing the longer arm, whereby the two arms may be locked in parallel relation, said device being applied so as to extend loosely along the upper and lower sides of the pedals whereby if one pedal is depressed the other two must move it.

1,354,173. MOTOR-CONTROL SYSTEM. RAY E. DE CAMP, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1916, Serial No. 124,043. Renewed Mar. 30, 1920. Serial No. 370,049. 5 Claims. (Cl. 172—288.)

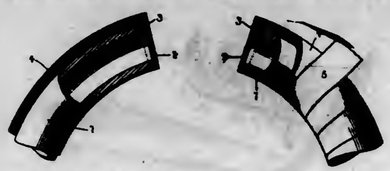


3. In a control system, the combination with a pair of switches each adapted to occupy a normal position, and an actuating coil for each of said switches adapted to cause the actuation of its corresponding switch to a second position, of a second pair of switches each adapted to cause the energization of one of said coils to effect said actuation of said corresponding switch, the circuit of the actuating coil of each of said first pair of switches including said controlling switch for said coil and the other of said first pair of switches when said other switch occupies said normal position, and means for short-circuiting said controlling switch from said circuit but maintaining said other of said first pair of switches in said circuit.

1,354,174. METHOD OF MAKING INNER TUBES. HENRY DECH, Trenton, N. J., assignor to Mercer Tire Company, Trenton, N. J., a Corporation of New Jersey. Filed Apr. 12, 1917. Serial No. 161,619. 4 Claims. (Cl. 154—14.)

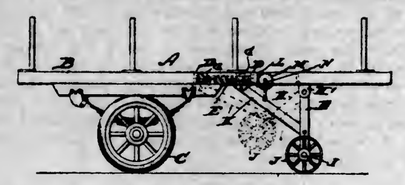
1. The method of making an inner tube comprising, first, building the major part of the tube on a curved mandrel;

second, vulcanising the said part; third, removing it from the mandrel; fourth, placing a section of similar tubular form and having laterally extending sleeves between and



abutting the ends of the said part with the sleeves projecting within the said part; and, finally, vulcanising the ends and section together.

1,354,175. TRAILER. CONSTANT DE MATTIA, Detroit, Mich., assignor to Wolverine Truck-Trailer Co., Detroit, Mich., a Corporation of Michigan. Filed Dec. 19, 1919. Serial No. 346,092. 3 Claims. (Cl. 280—33.1.)



1. In a trailer, a main frame including side members and transverse members connecting the side members, spaced I-beams connecting a pair of the transverse members and confined within the main frame, a screw shaft journaled in said pair of transverse members and located between said I-beams, a block having screw threaded connection with said screw shaft to travel on the latter and having grooves in the sides thereof to receive flanges of said I-beams whereby to guide said block, a swinging frame having pivotal connection with the main frame and with said block, and means to rotate said shaft to shift said block and therefore raise and lower said swinging frame.

1,354,176. SHEET-MUSIC. JOHN S. DONSON, Buffalo, N. Y., assignor, by direct and mesne assignments, to The Niantic Sheet Music Company, Buffalo, N. Y., a Corporation of South Dakota. Filed Sept. 24, 1919. Serial No. 326,013. 5 Claims. (Cl. 283—47.)



1. Sheet music formed of a single strip or sheet of material and having a sheet of music printed on each side thereof with the title of each piece of music following and printed on the same side as the other piece of music, the whole being folded to expose the titles at the front and rear so that when opening the folded sheet music, the piece of music corresponding to the exposed title will be brought to view.

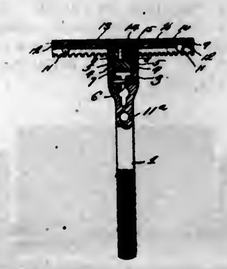
1,354,177. BUFFER-SPRING FOR VESTIBULE-DIAPHRAGM FACE-PLATES. CARL E. EKLIND, Chicago, Ill., assignor to Walter P. Murphy, New York, N. Y. Filed Oct. 10, 1919. Serial No. 329,650. 10 Claims. (Cl. 105—14.)

1. The combination with the end wall and diaphragm face plate of a vestibule railway car, of a semi-elliptical spring, the middle of which is engaged with one of the aforesaid elements of the car, and links each pivoted at



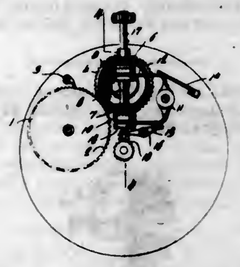
an end remote from the aforesaid car element to one of the extremities of said spring at its other end pivotally connected with the other of said car elements.

1,354,178. SAFETY-RAZOR. CHARLES S. FARRISS, De Land, Fla. Filed July 11, 1919. Serial No. 310,233. 2 Claims. (Cl. 30—12.)



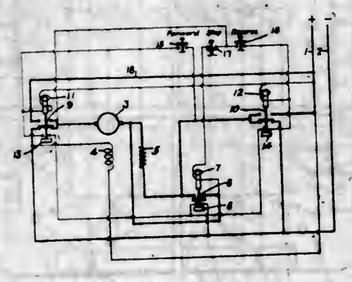
2. A safety razor comprising a handle, one end of said handle being provided with a bifurcation, a razor head, said razor head being threaded into a lug, said lug being disposed between the arms formed by the bifurcation and pivoted in said arms, the razor head being provided with a lug, an aperture in the handle disposed below the bifurcation, said aperture being adapted to receive the lug carried by the razor head when a partial turn is imparted to the razor head on the pivoted lug and the razor head tilted to a parallel position in relation to the handle.

1,354,179. STEM WINDING AND SETTING MECHANISM FOR WATCHES. CHARLES I. FURBISH, Amesbury, Mass. Filed Apr. 22, 1920. Serial No. 375,737. 7 Claims. (Cl. 58—68.)



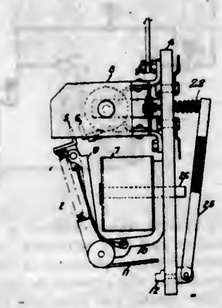
1. A winding mechanism for a time movement the same comprising a winding gear, an operating stem and intermediate gearing between the winding gear and operating stem and embodying a ratchet connection whereby a continuous winding may be effected by a forward and a backward rotation of the operating stem.

1,354,180. MOTOR-CONTROL SYSTEM. ADOLPH A. GASDA, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 30, 1916. Serial No. 123,068. 6 Claims. (Cl. 172—288.)



1. In a motor-control system, the combination with an electric motor, of a switch adapted to be closed to start said motor and having an actuating coil, an accelerating switch, means for temporarily closing the circuit of said coil, and means operatively connected to said accelerating switch for maintaining the circuit of said coil energized.

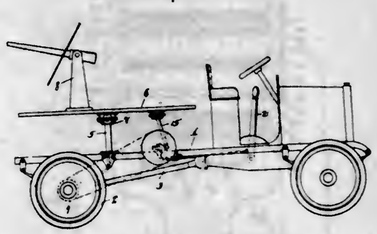
1,354,181. SWITCH MECHANISM. ADOLPH A. GASDA, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1917. Serial No. 202,701. 10 Claims. (Cl. 200—94.)



1. In a switch mechanism, the combination with a main switch having an energizing and a blowout coil, and an auxiliary switch biased to its open position, of means controlled by said energizing coil for effecting the closing of said auxiliary switch, and means controlled by the blowout coil for permitting the closing of the auxiliary switch under predetermined conditions.

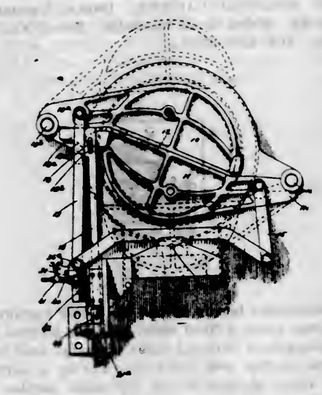
1,354,182. GUNNERY-TRAINING APPARATUS. GIUSEPPE GIANGIORGIO, Cleveland, Ohio. Filed Oct. 6, 1919. Serial No. 328,816. 2 Claims. (Cl. 89—40.)

1. In a device of the character described, the combination with a motor driven vehicle, of a platform pivotally mounted upon the vehicle frame, a gun mounted upon said platform, a crank shaft mounted transversely upon said frame, a rod connecting said crank shaft with the platform about centrally and longitudinally of the vehicle, a crank shaft mounted longitudinally upon said frame, gearing connecting said crank shafts, a rod connecting



said second crank shaft with the platform at one side of the vehicle, and gearing connecting the driving axle of said vehicle with said first named crank shaft for imparting a longitudinal and transverse rocking movement to said platform.

1,354,183. FIRE-DOOR-OPERATING MECHANISM. ARTHUR W. GILLESPIE, Chicago, Ill. Filed Dec. 2, 1916. Serial No. 134,729. 6 Claims. (Cl. 110—177.)

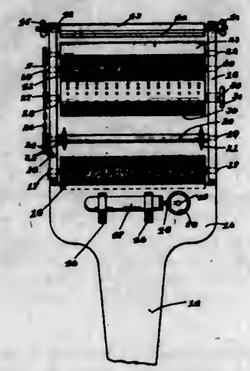


1. In combination, a fire door comprising sections mutually separable on opening, said sections being operatively connected, a foot-operable means to move said sections to open position, said means being controlled by a foot lever, and fluid-operable means to move said sections to open position, said fluid-operable means being controlled by said foot lever, said foot lever being detachable from said foot-operable means when it is desired to operate said fire door by said fluid-operable means.

1,354,184. PAPER-HANGING APPARATUS. ANTHONY GRIGAS and MIKE GRIGAS, Worcester, Mass. Filed July 16, 1919. Serial No. 311,125. 3 Claims. (Cl. 216—6.)

1. In a paper hanging apparatus, the combination with a handled frame having a pair of spaced arms extending at the head thereof, a paste supplying cylinder rotatably

mounted therein, means for pressing paper against said cylinder, a roller mounted between said arms adapted to press the paper upon the wall, means for trimming the



edges of said paper combined with said arms, a plate mounted in said arms adapted to enter angular corners by which said paper is pressed therein, and means for adjusting said plate.

1,354,185. [WITHDRAWN.]

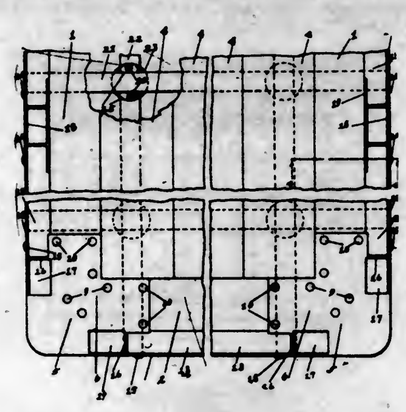
1,354,186. HORSE-DETACHER. ROBERT THOMAS HARP, Gatliff, Ky. Filed Sept. 11, 1919. Serial No. 323,101. 1 Claim. (Cl. 278—32.)



Horse detaching means of the character specified, comprising a base plate, a fixed member and a pivoted member mounted thereon, a covering plate engaging said members and secured to the base plate and having a portion upturned, a lever pivoted to the upturned portion of the covering plate and having a longitudinal slot therein, a restraining member adapted to engage the before mentioned pivoted member and passing through the slot of said lever and a keeper insertible between the fixed and pivoted members and normally retained in operative position thereby.

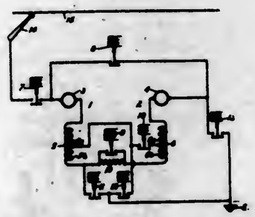
1,354,187. TRUCK-BODY. DAVID H. HARRIS, Kalamazoo, Mich. Filed Apr. 3, 1920. Serial No. 371,095. 9 Claims. (Cl. 296—43.)

1. In a structure of the class described, the combination of side and end sills having mitered joints, a combined stake pocket and corner iron comprising a top plate having an outer flange at its edge and an angled inner flange embracing the edges of the sills with the top plate resting thereon, the ends of the inner flange being extended beyond the ends of the outer flange providing attaching ears, there being cross members between said flanges coacting therewith to provide stake pockets, bolts disposed vertically through said top plate and sills, a tie plate on the under side of said sills overlapping the joint thereof and receiving bolts disposed at the ends of the sills, filler bars disposed on the edges of the sills to



abut said corner iron and overlap said attaching ears, edge straps arranged over said filler bars with their ends abutting the corner iron, and bolts disposed horizontally through said straps, filler bars, attaching ears and sills.

1,354,188. CONTROL SYSTEM. RUDOLF E. HELLMUND, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 7, 1916. Serial No. 76,600. 19 Claims. (Cl. 172—179.)

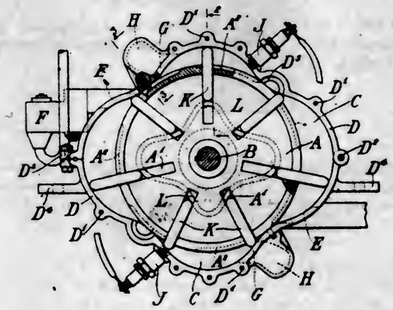


3. In a control system, the combination with two motors having armature and field windings, and a resistor, of means for short-circuiting portions of said field windings, means for reversing the current flowing through one of said motors, and means for inserting the resistor in the circuit of said motor when the current is reversed therethrough.

1,354,189. INTERNAL-COMBUSTION ROTARY ENGINE AND THE LIKE. HERBERT GEORGE HOWITT and WYNDHAM JAMES PRICHARD, Merthyr Tydfil, Wales, and JOHN EVANS, Eltham, London, England. Filed May 21, 1920. Serial No. 383,328. 5 Claims. (Cl. 123—16.)

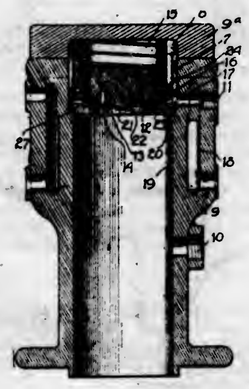
1. A rotary internal combustion engine, comprising a rotor, a stator surrounding the rotor and defining, with the rotor, pairs of chambers for the reception and ignition of explosive charges, conduits in the stator between one chamber of a pair and the next chamber in order of the same pair, means for conducting an explosive charge into the first chamber in order of each pair, means for conducting gases of combustion from the second chamber of each pair, projectable and retractable vanes carried by the rotor with the periphery of the rotor

provided with longitudinally arranged grooves each associated with a vane, division members carried by the stator



between each pair of chambers and adapted and having a constant tendency to enter the grooves in the periphery of the rotor.

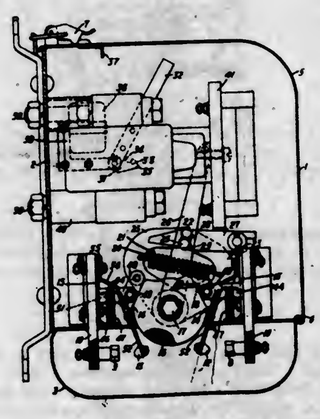
1,354,190. AMMONIA-COMPRESSOR. GEORGE HILGER, Chicago, Ill. Filed Nov. 26, 1919. Serial No. 340,747. 9 Claims. (Cl. 230—34.)



1. In an ammonia compressor, the combination with a cylinder provided with an inlet port and having a chamber provided with an exhaust port, of a cup-shaped head mounted in the chamber, a series of ports in the end of said head opening into the cylinder, a second series of ports in the side wall of said head, valve means within said head for controlling the ports in the end wall thereof, a clamping member for said valve means mounted within said head, said clamping member and head being shaped to provide at opposite ends of the ports in the side wall thereof annular channels, the inner one of which is adapted to receive fluid from the ports in the end wall of the head and the outer one of which communicates with said exhaust port.

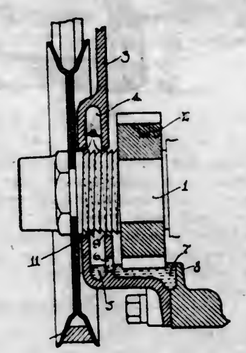
5. In an ammonia compressor, the combination with a cylinder, of a head in the form of a cup-shaped member provided in its bottom wall with a plurality of ports and having clamped on the outer side of said wall a resilient disk for controlling the flow of pressure fluid from the cylinder, said disk being secured in position by a spring pressed clamping member.

1,354,191. CONTROLLER. CHARLES H. HODGKINS, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 6, 1916. Serial No. 101,905. 14 Claims. (Cl. 200—6.)



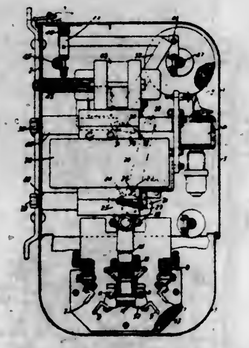
3. In a controller, the combination with a casing, and an actuating member, of a bearing member for said actuating member, and a member molded therein for securing said bearing member to said casing.

1,354,192. PACKLESS JOINT. JAMES M. HOWE, Cleveland, Ohio, assignor to Grant Motor Car Corporation, Cleveland, Ohio, a Corporation of Virginia. Filed Sept. 1, 1917. Serial No. 189,239. 3 Claims. (Cl. 286—10.)



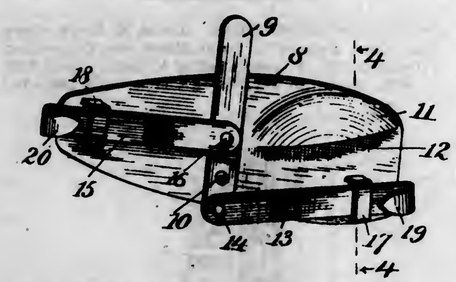
1. In a device of the character described, the combination of a casing having a casing-wall having a pocket therein, and an aperture therethrough, the inner wall of the pocket having an aperture communicating with the interior of the casing, a shaft extending through the apertures in said casing wall, buttress threading formed on said shaft beneath and adjacent to said casing wall and pocket, said threading being formed with clearance within the walls of such aperture and being adapted to actuate lubricant therein away from the outer wall of said casing, such pocket being adapted to collect such lubricant whereby said lubricant will flow back into said casing through such communicating aperture.

1,354,193. CONTROLLER. HENRY D. JAMES, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 16, 1916. Serial No. 97,849. 23 Claims. (Cl. 200—6.)



1. In a controller, the combination with a switching device, and a casing therefor comprising a cover member, of means comprising a latching mechanism for controlling said device, and a member connected to said cover member for actuating said controlling means upon the removal of said cover member under predetermined conditions.

1,354,194. FASTENING DEVICE FOR CHAINS. ELMER JOHNSON, Dodgeville, Wis. Filed Oct. 1, 1919. Serial No. 327,644. 6 Claims. (Cl. 24—68.)



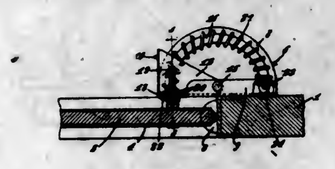
4. A fastening and tensioning device for chains comprising a base plate, a hand-operated lever pivoted thereto, arms pivoted to said lever on opposite sides of its pivot, guide loops for said arms, means on the arms for connecting the ends of a chain thereto, and a longitudinally disposed shoulder provided on the plate having one side inclined, said shoulder being designed to lock the lever from movement.

1,354,195. COMBINED COMPASS AND QUADRANT. DAMIAN JOKUBAITIS, Terre Haute, Ind. Filed Oct. 15, 1919. Serial No. 330,708. 2 Claims. (Cl. 33—1.)



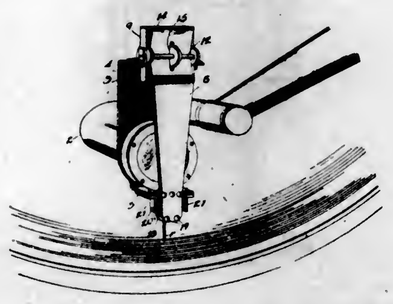
1. In a device of the class described, the combination with a barrel, of a plurality of supports pivotally engaged in one end of said barrel by which it may be supported in a vertical position, and a segment plate adapted to pass through one of the slots whereby the inclination of said barrel may be ascertained.

1,354,196. DOOR-SPRING. MARTIN A. KALTON, Minneapolis, Minn. Filed June 7, 1920. Serial No. 387,265. 3 Claims. (Cl. 16—100.)



2. In a device of the class described, a door frame; a hinged door; a bracket carried by the frame; an arcuate support connected at its ends to the bracket, the bracket including a top plate of sufficient size to shield the support, and a bottom flange below the support; an arm extended between the top plate and the flange and slidable on the support; a pivot element mounted in the top plate and in the flange and constituting a mounting for the arm; a spring on the support and abutting against the arm; an adjustable stop on the arm and lying in the path of the door; and means for holding the stop in adjusted positions on the arm.

1,354,197. REPRODUCER FOR TALKING-MACHINES. JOHN W. KAUFMANN, Baltimore, Md. Filed July 17, 1919. Serial No. 311,623. 4 Claims. (Cl. 274—35.)



1. In reproducers, a bracket plate supported by the sound box and extending beyond the same at one end of the plate, said plate having at each end a laterally bent portion, a substantially rectangular frame pivoted to one of the laterally bent portions to swing on a central axis transverse to the frame, a needle holder pivoted to the other to swing on an axis parallel with that upon which the frame swings, and a resilient transmitting plate connecting the frame to the needle holder and extending transversely of the diaphragm.

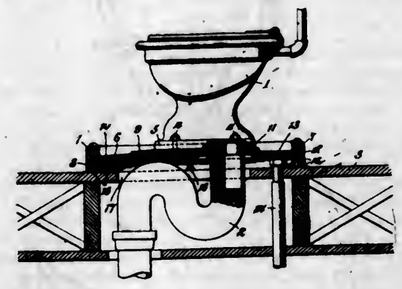
1,354,198. MOLD. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 25, 1919. Serial No. 279,128. 4 Claims. (Cl. 18—6.)

3. In a mold, a pressure-applying member formed with a recess in its work-engaging face, a stud slidably mounted in the recess and so proportioned that, in its innermost position, its outer end lies flush with the work-engaging face of the pressure-applying member, a pin extending



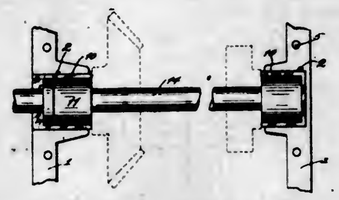
through the pressure-applying member and through a slot formed in the stud to limit the movement of the stud, and a spur projecting from the outer end of the stud.

1,354,199. DRIP-PAN FOR SANITARY CLOSETS. GEORGE W. KETTERINGHAM, La Fayette, La. Filed Jan. 9, 1919. Serial No. 270,333. 3 Claims. (Cl. 4—18.)



1. In a device of the character described, a base portion having a marginal flange extending around its edges from each side thereof, the upper face of the base portion having a raised portion centrally thereof, the flange of the upper face coöperating with said raised portion to conduct fluids to a predetermined point of said base portion, the lower marginal flange being set upon the floor and spacing the base portion above said floor, said spacing providing room for a trap set in the floor to extend above the same.

1,354,200. BEARING AND METHOD OF CONSTRUCTING THE SAME. JOHN JAMES KNIGHT, Alameda, and MARK LEE, Oakland, Calif. Filed July 22, 1919. Serial No. 312,616. 5 Claims. (Cl. 64—10.)



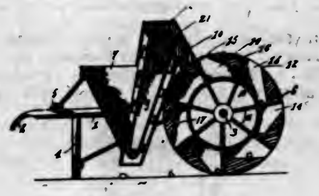
1. The method of making a bearing consisting first in casting a bearing seat within a supporting body, thence positioning therein a mandrel or core of the size of the bearing to be mounted and smaller than said bearing seat to provide a space between the surface of the mandrel or core and the surface of the seat, thence pouring the fluid metal into said space to line said seat and permitting the same to harden, and thence removing the mandrel or core and positioning an anti-friction bearing within the lined seat with the outer shell thereof resting on the surface of the liner.

1,354,201. PACKING-WASHER FOR CAPS OR THE LIKE. HENRY PHILLIP KRAFT, Ridgewood, N. J. Filed Feb. 20, 1915. Serial No. 9,537. 9 Claims. (Cl. 152—12.)



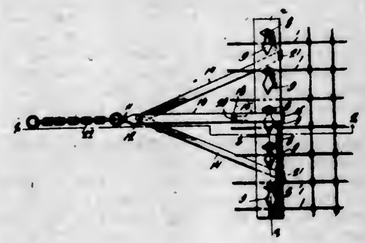
1. A dome-shaped packing washer having a central recess for receiving a valve pin, and having a dome-shaped member of stiffening material fixed throughout thereto.

1,354,202. POTATO-PLANTER. HERMENEGILDE J. H. LAPLECHE, Casselman, Ontario, Canada. Filed Aug. 8, 1919. Serial No. 316,116. 1 Claim. (Cl. 275—2.)



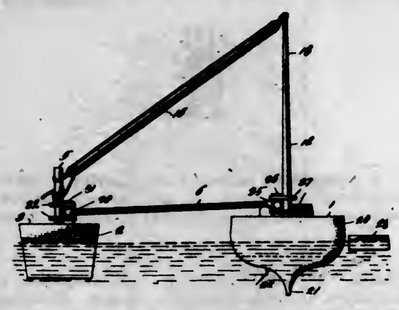
A potato planter comprising a frame, a ground wheel having a hub supported within said frame, said ground wheel formed with inner and outer rims, spokes connecting said hub and rims, blocks secured to said spokes between said rims and forming compartments having outlet openings, said blocks formed with inclined inner surfaces which diverge toward their point of connection with said spokes and the angle of inclination of said blocks, causing the potatoes to drop out of said compartments, when the latter have reached their lowermost position in the travel of the ground wheel.

1,354,203. WIRE-STRETCHER. ANDY W. LORD, Gerster, Mo. Filed Dec. 13, 1919. Serial No. 344,690. 3 Claims. (Cl. 254—83.)



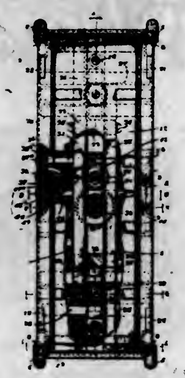
1. In a device of the class described, the combination of clamping means and a pulling frame, a central rod and side rods provided in said frame, one end of said central rod bent so as to form a loop, the end of said loop provided with an aperture adapted to register with an aperture provided in the body portion of said central rod, the ends of said side rods provided with apertures, whereby a rivet may be passed through all of said apertures for holding said rods in pivotal relation with one another.

1,354,204. BOAT-LISTING APPARATUS. ALBERT McDOWELL, Los Angeles, Calif. Filed Oct. 16, 1919, Serial No. 330,992. Renewed Aug. 5, 1920. Serial No. 401,562. 11 Claims. (Cl. 114—0.5.)



10. An apparatus adapted for engagement with a boat to list it while in the water and holding it in listed position.

1,354,205. BINDER. FRED L. MANNY, Benton Harbor, Mich., assignor to Baker-Vawter Company, Benton Harbor, Mich., a Corporation of Michigan. Filed Sept. 11, 1917. Serial No. 190,743. 16 Claims. (Cl. 129—13.)



1. In a loose-leaf binder, a back plate, side plates slidingly mounted therein, cross racks secured to said side plates, a longitudinal rack slidingly mounted on said back plate, pinions intermediate said longitudinal rack and cross racks, another pinion geared to said longitudinal rack, a ratchet coupling one member of which is connected to said last mentioned pinion, and manually operable means coöperating with the other member of said coupling for clamping the side plate against interposed sheets.

16. In a loose-leaf binder having extensible side frame plates formed with vertical flanges, post bars secured to said plates and arranged to embrace a body of interposed sheets, a telescoping expansible locking post adapted to be inserted through registering orifices in the flange of the frame plate and post bar on one side, and locking mechanism coöperating with the head of said locking post arranged between such frame plate and post bar.

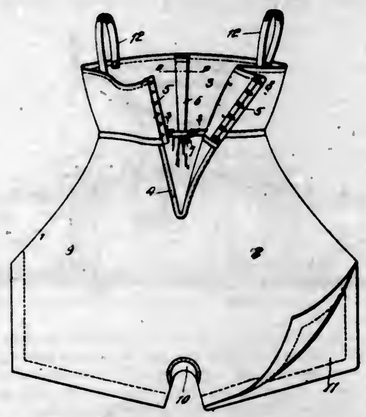
1,354,206. PURSE, HANDBAG, OR THE LIKE. FREDRICK NICKEL, New York, N. Y., assignor to Springmeyer, Pattberg & Co., Hoboken, N. J., a Corporation of New Jersey. Filed Apr. 21, 1920. Serial No. 375,645. 1 Claim. (Cl. 150—3.)

A handle fastening device for bags or the like, comprising a sheet metal member having an aperture near one end, an open transverse U at the other end, one side of the U being provided with a projecting tongue, said sheet metal member being folded upon itself and inclos-



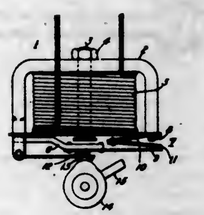
ing a portion of the material of the hand bag or the like including the margin or edge thereof, the tongue passing through the material and aperture and being bent over.

1,354,207. BRASSIÈRE AND DRAWERS. RUTH BLOCH OPPENHEIMER, New Rochelle, N. Y. Filed Sept. 27, 1919. Serial No. 326,858. 1 Claim. (Cl. 2—145.)



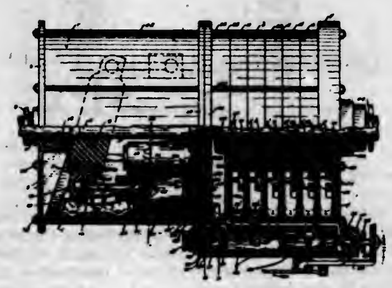
A one piece undergarment for stout women composed of a back with a single opening which may be closed by suitable means, which opening is located at the top, a front without an opening, arm straps and leg openings that extend well up at the sides.

1,354,208. ELECTROMAGNETIC DEVICE. ALFRED H. PACKER, Pittsburgh, and FRANCIS H. PATTEN, Edgewood Park, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,469. 8 Claims. (Cl. 200—87.)



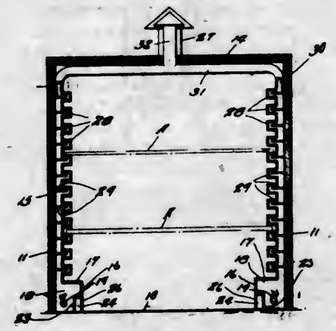
1. In an electromagnetic device, an energizing coil, a pivotally mounted armature controlled by said coil, and a resilient stop member mounted independently of, and engaging said armature, said member having a portion thereof composed of two metals having different coefficients of expansion.

1,354,209. POWER-TRANSMISSION MACHINE. PETER R. PETERSON, Salt Lake City, Utah, assignor to Peterson-Harnden Fluid Clutch Co., Salt Lake City, Utah, a Corporation. Filed Dec. 30, 1918. Serial No. 268,984. 4 Claims. (Cl. 60—53.)



1. In a power transmission machine the combination of a driving shaft; an inclined rotor thereon having annular ball grooves cut in its periphery; an annular member oscillated by said rotor and having annular ball grooves cut in its inner wall; balls in said grooves; pistons connected with and operated by said annular member; chambers in which said pistons are operated; a valve plug in each of said chambers; valves in said plug to direct the flow of oil into and out of said chambers; a driven shaft in alinement with said driving shaft; a plurality of rotors secured on said driven shaft; a plurality of disk plates in which said rotors are operated each having inlet and outlet conduits cut therein; and a valve to direct and control the flow of oil to all or any one of said disk plates as desired.

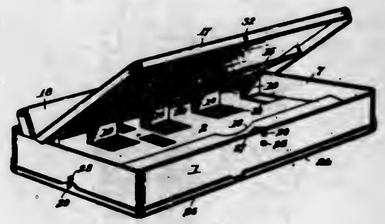
1,354,210. JAPANNING-OVEN. OTTO PORBECK, St. Louis, Mo. Filed Oct. 4, 1919. Serial No. 328,426. 10 Claims. (Cl. 34—39.)



1. In an oven of the class described, a housing, a corrugated wall arranged within said housing and spaced apart from one of the walls thereof, and there being a chamber formed in the lower portion of the housing and communicating with the space between the wall of the housing and said corrugated wall.

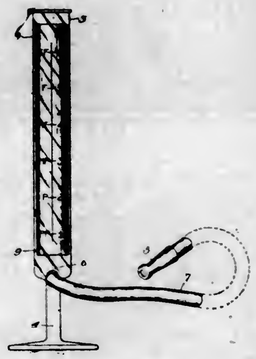
1,354,211. POCKET-CASE. HUGH T. REED, Chicago, Ill. Filed May 6, 1920. Serial No. 379,204. 6 Claims. (Cl. 206—37.)

4. A pocket case having an intermediate partition and a rim extending at opposite sides thereof to form separate compartments opening at opposite sides of the case, lugs cut and bent up in rows on opposite sides of said partition to form sub-partitions dividing each of the opposite compartments into a plurality of sub-compartments, one of



said rows of lugs extending transversely of the case on one side of the intermediate partition, and another of said rows of lugs extending longitudinally of the case on the opposite side of said intermediate partition.

1,354,212. MEANS FOR AND METHOD OF REGULATING BREATHING FOR SINGING AND WIND-INSTRUMENT PRACTICE. JAMES BURLINGTON RIGG, Oak Park, Ill. Filed Feb. 9, 1920. Serial No. 357,117. 9 Claims. (Cl. 128—27.)

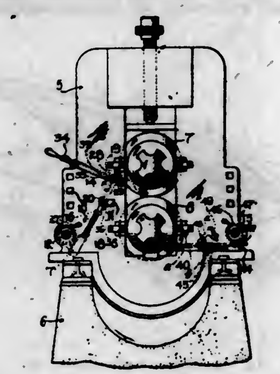


1. The practice-method of controllably regulating breathing, which consists in forcibly exhaling and directing the breath under confinement into a receptacle underneath a body reciprocably confined therein to move said body and cause it to float and to be maintained on the body of air from the breath and at predetermined elevations, and simultaneously venting the air from the receptacle.

1,354,213. ROLL-POLISHING MACHINE. WILLIAM H. RITTBERGER, Granite City, Ill. Filed Apr. 21, 1919. Serial No. 291,469. 11 Claims. (Cl. 80—1.)

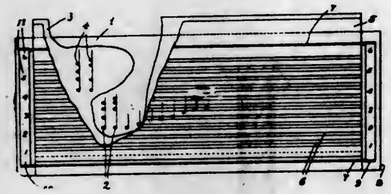
10. The combination with the upper and lower rolls of a rolling mill and a housing therefor, of supporting members mounted on the housing and held from movement parallel to the rolls, there being a pair of supporting members for each roll, each supporting member formed in foldable sections, an abrading element mounted on the

uppermost section of each supporting member for movement relative to the supporting member parallel to the



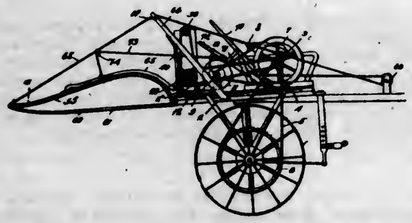
face of the corresponding roll, and means for reciprocating each abrading element against the surface of the corresponding roll.

1,354,214. TRANSPOSING MUSICAL CHART. ROBERT B. ROBINSON, Kansas City, Mo. Filed June 22, 1918. Serial No. 241,424. 3 Claims. (Cl. 84—86.)



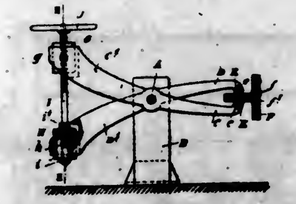
1. In a transposing musical chart, a music sheet, notes on said sheet, retainers on said sheet, a transparent sheet with staff lines thereon, circuitously movable bands in the margin of said music sheet, numerals on said bands to indicate the pitch of the octave, said transparent sheet adjustably secured to said music sheet by said retainers.

1,354,215. COTTON-PEST POISONER. JOSEPH M. SALADINER, Bryan, Tex. Filed Jan. 28, 1920. Serial No. 354,749. 9 Claims. (Cl. 43—148.)



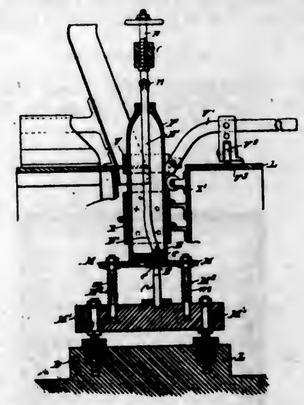
1. A machine of the class described including a movably supported structure, a hood extending therefrom and having a foraminous bottom adapted to be dragged over plants, means for directing a current of air downwardly into the hood, and means for directing a poisonous substance into said air current.

1,354,216. PROCESS AND APPARATUS FOR ASCERTAINING THE HARDNESS OF METAL PARTS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Aug. 21, 1918. Serial No. 250,862. 4 Claims. (Cl. 265—12.)



1. The process for testing the hardness of metal plates, walls, and the like which consists in subjecting the same at opposite points on opposite sides of the plate or wall to be tested to the simultaneous action of indentation means impelled by equal forces and adapted to produce indentations increasing in dimension with increase of penetration and then measuring the dimensions of the indentations to determine the degree of homogeneity of the metal at the portion tested.

1,354,217. APPARATUS FOR ASCERTAINING THE HARDNESS OF METAL PARTS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed Aug. 21, 1918, Serial No. 250,862. Divided and this application filed June 16, 1919, Serial No. 304,650. Renewed Aug. 12, 1920. Serial No. 403,152. 6 Claims. (Cl. 265—12.)

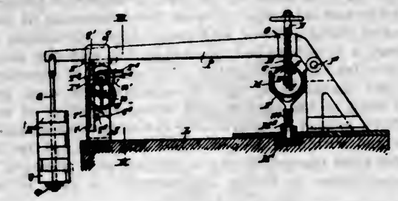


1. In apparatus for testing hardness, the combination of oppositely disposed indenting members one of which is movable and the other of which is stationary, a yieldingly supported platform having an opening for receiving one of said indenting members and for normally supporting the article to be tested and means for applying indenting pressure to said article through said movable indenting member.

1,354,218. PROCESS AND APPARATUS FOR ASCERTAINING THE HARDNESS OF METAL PARTS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed Aug. 21, 1918, Serial No. 250,862. Divided and this application filed June 16, 1919, Serial No. 304,651. Renewed Aug. 12, 1920. Serial No. 403,153. 3 Claims. (Cl. 265—12.)

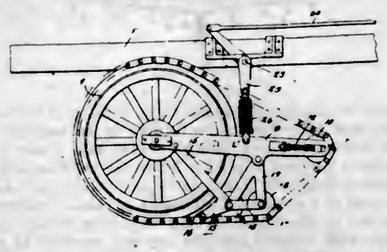
1. In apparatus for testing the hardness of hollow articles by producing indentions in opposite surfaces of the

article, the combination of an arm rigidly supported at one end, the free end adapted to enter the cavity of the test article and provided with indenting means, a lever



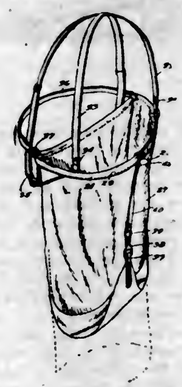
fulcrumed at one end and provided with indenting means in alinement with said first-named indenting means, a yielding support for the article to be tested, and means for applying graduated power to the free end of said lever.

1,354,219. PROPELLING ATTACHMENT FOR TRACTORS. HARRY A. SELTENRIGHT, Toledo, Ohio. Filed May 19, 1919. Serial No. 298,192. 2 Claims. (Cl. 305—8.)



1. The combination with a self-propelled vehicle, of pairs of hanger arms mounted upon the rear axle of the same, a shaft mounted in each pair of hanger arms capable of longitudinal movement therein, a roller rotatable upon each of the shafts, expansible coil springs urging the rollers forwardly, tracks engaged about the drive wheels of the vehicle and passing over the rollers, supporting bars depending from the hanger arms, rollers carried thereby and bearing against the tracks to retain the same in a plane parallel to the roadway, brackets depending from the hanger arms and connected with one end of each of the supporting bars, and means for raising and lowering the hanger arms.

1,354,220. FRUIT-PICKING BAG. ARTHUR W. SHARARD, Chelan Falls, Wash. Filed May 25, 1920. Serial No. 384,197. 4 Claims. (Cl. 150—2.)



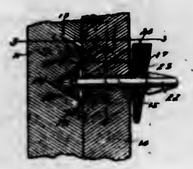
1. A fruit picking bag of the character described, comprising a supporting frame embodying an abdomen engaging portion having upper and lower members, and a suspension element carried by the upper member, a bag portion secured to the upper member and the suspension element, shoulder straps connected with the suspension element at points spaced from the upper member and having their opposite ends connected with the lower member, and a waist-strap connected with the ends of the upper member.

1,354,221. DEMOUNTABLE-RIM VEHICLE-WHEEL. ALVIN H. SHOEMAKER, Seattle, Wash. Filed July 11, 1919. Serial No. 310,092. 3 Claims. (Cl. 21—69.)



1. In a wheel in combination, a removable rim, a center having a rim section and spokes extending therefrom and divided into two groups which have their inner ends separated axially, and means for drawing together the inner ends of said groups of spokes to thereby expand the rim portion of the wheel center into holding engagement with the removable rim.

1,354,222. STORM-WINDOW FASTENER. CHARLES RUBY SIBLEY, Lynn, Mass. Filed Feb. 10, 1920. Serial No. 357,525. 4 Claims. (Cl. 292—59.)

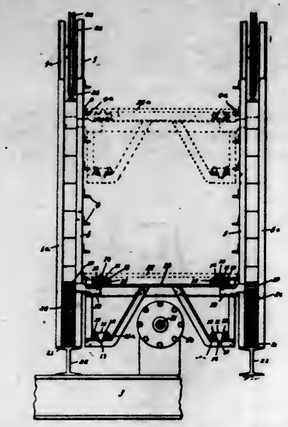


1. A window fastener comprising the combination with a sash frame having a catch plate secured thereto and provided with an elongated opening, of a window frame having a rotatable and lengthwise movable bolt extending therethrough and forming a permanent part thereof, one end of which bolt is provided with a head elongated in one direction to extend through the opening of the catch plate, said bolt having a head at its opposite end, and a slotted wedge on the bolt between the last mentioned head thereof and the adjacent face of the window frame.

1,354,223. DRIER. CHARLES SLATTERY, Cuyahoga Falls, Ohio. Filed Nov. 6, 1919. Serial No. 335,985. 9 Claims. (Cl. 214—16.)

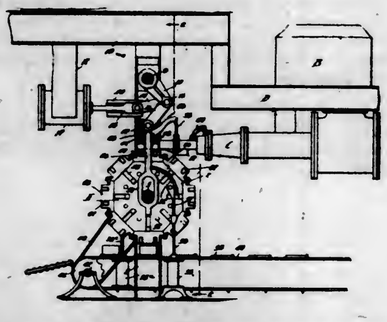
1. A drier comprising a series of supports one above the other, adapted to support pallets or trays, a conveyer

movable up and down beside the supports and adapted to convey said pallets along the respective supports, and



means to raise or lower the conveyer, to register same with the pallets on the supports successively.

1,354,224. BRICK-MOLDING MACHINE. CHARLES SLATTERY, Cuyahoga Falls, Ohio. Filed Nov. 6, 1919. Serial No. 335,986. 6 Claims. (Cl. 25—82.)

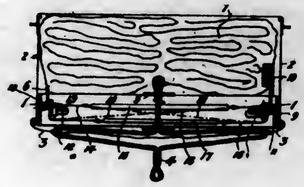


1. In a brick machine, the combination with a wheel of molds, and a plunger coöperating therewith, of a feeding table leading to the molds, and a cutter carried by the plunger and adapted to sever material being fed across the table.

2. In a brick machine, the combination with a rotary drum, molds mounted between the ends of the drum, cross bars projecting through the ends of the drum and slidable in radial guides therein ejecting mold bottoms supported by said bars, a plunger coöperating with the molds, and arms carried by the plunger and engaging with the projectings ends of the cross bars when the plunger advances, to advance the mold bottoms and eject the brick from the molds.

1,354,225. PARACHUTE. ERNEST EDWARD SMITH, Clapham Common, London, England. Filed July 7, 1919. Serial No. 308,979. 4 Claims. (Cl. 244—21.)

4. In a parachute launching device having an open bottomed case and means for fixing said case to the aircraft; the combination with a rigid open frame located within said case and adapted to be withdrawn through the open bottom thereof, a base cover secured to the lower edges of said case and adapted to retain said rigid open frame within said case, a main suspension rope passing through said base cover and fixed at one end to said open frame and means at the other end of said main suspension rope for the attachment of the load, a connection between said cover and said rope to cause the detachment of said cover and withdrawal of said frame upon application of said load, a parachute body located within said case above said open frame, rigging cords attached to said parachute body and connected to said main suspension rope, and spools fixed to the edge of said parachute body; of two oppositely located members each extending diametrically across and within said open frame and adjacent to the opposite sides thereof, hinges to connect said members to said open frame to permit said members to turn in the



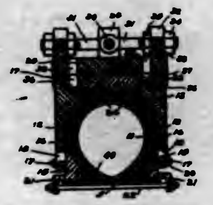
direction of the parachute, means on said open frame to prevent said hinged members turning in an opposite direction toward the load, pins to engage said spools with said hinged members when the latter are substantially in the plane of said open frame, and a tension member adapted to break at a predetermined degree of tension connected at one end to one hinged member extending beneath said members and connected to the opposite member to prevent said members turning on their hinges in the direction of the parachute and adapted to free said members to simultaneously release said spools upon the parachute offering sufficient resistance to descent and thereby increasing the tension of said tension member.

1,354,226. APPARATUS FOR STORING COAL, ORE, AND OTHER MATERIALS. FRANCIS LEE STUART, Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Filed Mar. 19, 1918. Serial No. 223,302. 4 Claims. (Cl. 193—3.)



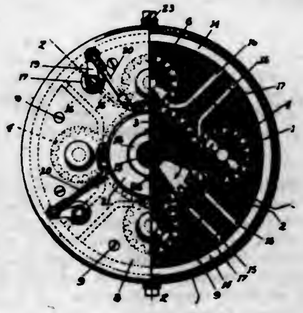
1. Apparatus for storing materials, comprising a truck-supported frame having a horizontally arranged wheel-supported lower portion and an inclined upper portion, an endless inclined conveyer belt having a delivery portion arranged above the inclined part of the frame and a return portion arranged immediately below said inclined part of the frame, pulleys at the upper and lower ends of said frame around which the endless conveyer belt passes, motor mechanism on said frame for driving said belt, a delivery conveyer associated with said inclined conveyer belt and receiving material from its upper end, an automobile truck connected with said before-mentioned conveyer frame, a turn-table on said truck, motor mechanism for operating the turn-table, a frame supported by the turn-table to which the delivery conveyer is connected to move about a horizontal axis, and motor mechanism for thus turning the delivery conveyer.

1,354,227. TIRE-MOLD. ALBERT R. THOMPSON, Tacoma, Wash. Filed Mar. 27, 1919. Serial No. 285,502. 12 Claims. (Cl. 18—42.)



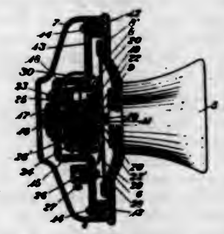
1. In a tire mold, a tread rim, side plates arranged for adjustment laterally within said rim, and a bead rim arranged to be adjustably secured to each said side plate.

1,354,228. FLUID-PRESSURE TRANSMISSION. GEORGE E. THOMPSON and PHILLIP A. UDALL, Stockton, Calif. Filed Feb. 24, 1919. Serial No. 278,962. 1 Claim. (Cl. 192—18.)



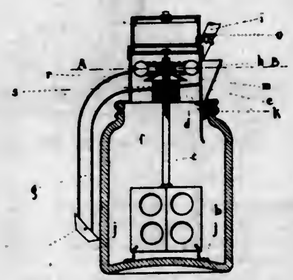
A fluid pressure transmission comprising a casing, covers thereon, a drive shaft passing into the casing, a gear secured thereon having a width exactly that of the casing, pinions meshing with the gear the same width thereas and mounted on the covers, the gear and pinions being closely and entirely surrounded by metal, a narrow peripheral fluid-filled annular passageway inclosed in the casing, and narrow passageways similarly inclosed on each side of each pinion leading from the annular passage to the points of divergence of the gear therewith, there being valves interposed in the alternate ones of the passageways which may be simultaneously turned to close the same.

1,354,229. TELEPHONE-TRANSMITTER. GEORGE K. THOMPSON, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 21, 1918. Serial No. 255,133. 3 Claims. (Cl. 179—124.)



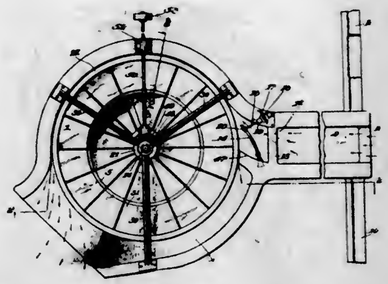
3. In a variable resistance chamber, a diaphragm, movable electrodes fixed to the diaphragm, fixed electrodes, a flexible diaphragm between said movable and fixed electrodes, and independent bodies of granular conducting material between the movable electrodes and fixed electrodes and the flexible diaphragm respectively, and circuit connections whereby the current flows through the two bodies of granular material in series and in a direction parallel to the flexible diaphragm.

1,354,230. BUTTER-MIXER. HENRY S. WALTHER and GUSTAVE HENCHOZ, Yverdon, Switzerland. Filed Feb. 3, 1919. Serial No. 274,759. 1 Claim. (Cl. 259—122.)



In a mixer, a container, a detachable cover therefor, a casing on said cover, a revoluble stirrer having a shaft mounted in said casing and provided with a water wheel also arranged in said casing, means to discharge water against said water wheel in said casing, a water discharge conduit leading downwardly from said casing, and a deflecting element pivoted to the lower end of said conduit and adapted to be arranged to cause water from the conduit to be directed against the exterior of the container to cool the same.

1,354,231. HYDRAULIC MOTOR. GEORGE WEBER, Stuart, Nebr. Filed Oct. 17, 1919. Serial No. 331,256. 12 Claims. (Cl. 170—116.)

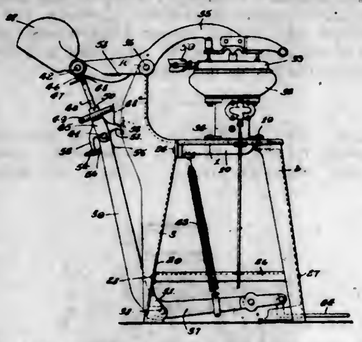


1. A device of the class described including a water wheel provided with an annular series of depending buckets comprising relatively fixed stationary sections or members and movable sections or members hinged to the fixed sections or members, and means for normally urging the movable sections upwardly whereby the said movable sections will be elevated automatically when not subjected to the action of the water.

1,354,232. PRESSING-MACHINE. ALLEN CLYMER, AUSTIN, Syracuse, N. Y. Filed Sept. 9, 1916. Serial No. 119,197. 13 Claims. (Cl. 68—9.)

1. A machine frame comprising a table, legs supporting the table and being detachably secured thereto, the table

being formed with bearing faces inclining inwardly and downwardly and the legs being formed with complemental

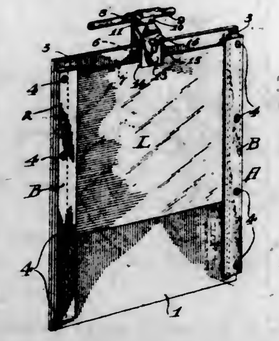


bearing faces, substantially as and for the purpose set forth.

1,354,233. PREPARING PUMICE-STONE FOR USE IN CONCRETE. ERIK CHRISTIAN BAYER, Copenhagen, Denmark. Filed Nov. 15, 1919. Serial No. 338,405. 2 Claims. (Cl. 106—24.)

1. Method of treating pumice stone so that it is rendered suitable for light concrete, characterized in that the pumice stone is crushed, and the separate fragments are subjected to a temperature of about 1000° C. and higher up to melting point, whereby there occurs a contraction in each separate fragment, which contraction according to the height of temperature, increases the hardness until glass-hardness and whereby the outer pores in reaching the melting point are completely closed through a superficial melting while each separate piece still remains porous inside.

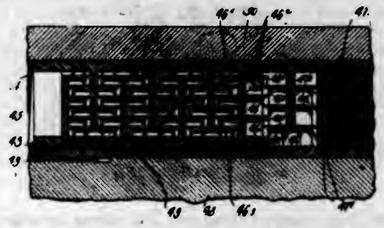
1,354,234. HOLDER FOR ELECTROPLATING. HARRY M. BLAETZ, Philadelphia, Pa., assignor to Royal Electrotype Company, a Corporation of Pennsylvania. Filed Jan. 17, 1920. Serial No. 352,030. 8 Claims. (Cl. 204—5.)



3. A device of the class described comprising a board-like body portion, slotted retaining guides carried by the body portion and a spring clamping member carried on the body portion and adapted to engage and clamp the plate against such body portion.

1,354,235. LABYRINTH PACKING. ALFRED BONOM, Paterson, N. J. Original application filed Dec. 26, 1918, Serial No. 286,862. Patent No. 1,313,058, dated Aug. 12, 1919. Divided and this application filed Nov. 10, 1919. Serial No. 336,983. 7 Claims. (Cl. 286—9.)

1. The herein described labyrinth packing for high speed rotary engines, comprising a pair of coaxial mating rings carried by the members between which there is relative rotation, each ring including a radial web and a plurality of coaxial flanges projecting laterally therefrom,



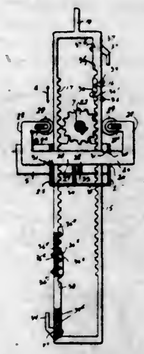
the flanges of each ring coöperating with the web of the other ring, and fins provided upon the flanges for co-operation with adjacent flanges, substantially as and for the purpose set forth.

1,354,236. SAFETY-FASTENING FOR HAIR-SLIDES. LUCIEN PAUL BOUR, Paris, France. Filed Sept. 20, 1919. Serial No. 325,151. 3 Claims. (Cl. 132—22.)



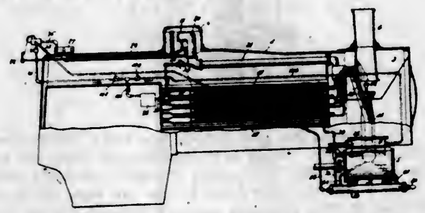
1. A fastening device for hair slides comprising a slide, a pin pivoted to one end of said slide, a pin retaining device at the other end of the slide and movable longitudinally with respect to the slide, and a plate spring having its ends connected to the slide and retaining device and serving to simultaneously lock the hair against the pin and to maintain the retaining device in a closed position with respect to the pin.

1,354,237. PUMP-JACK. GEORGE W. BOYD, Rector, Ark. Filed Apr. 2, 1919. Serial No. 286,836. 3 Claims. (Cl. 74—27.)



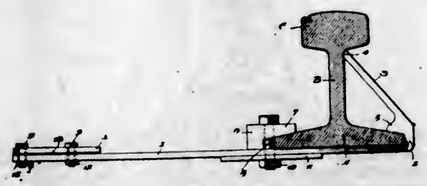
1. The combination with a pump provided with a reciprocating pump rod, of a driven shaft revoluble in one direction only and provided with a gear, a supporting frame for said shaft, a rack frame mounted in the supporting frame and having opposite sets of gear teeth, one set meshing with the gear when the rack frame moves in one direction, the other set meshing with the gear when the frame is moving in the opposite direction, means at diagonally opposite ends of the rack frame coöperating with the gear to tilt the rack frame, a locking member mounted in openings of the supporting frame and having interlocking connections with the sides of said openings, said locking member having means between which the rack frame engages to guide the rack frame and being shiftable with the rack frame, spring means for holding the locking member inter-locked with the sides of the said openings, means at each end of the rack frame to engage the guiding means of the locking member to tilt it at the end of each stroke of the rack frame to disengage the interlocking connections.

1,354,238. LOCOMOTIVE. ARTHUR L. BRIDGHAM, Boston, Mass., assignor of one-half to Charles H. Sherburne, Boston, Mass. Filed May 10, 1917. Serial No. 167,706. 10 Claims. (Cl. 60—90.)



1. In a steam locomotive, the combination with the boiler, cylinders and pistons, steam connections through which steam from the boiler is directed to the cylinders for actuating the pistons, a throttle valve in said connections, and exhaust connections from the cylinders, including a draft creating device, of means whereby steam may be supplied to the cylinders when the throttle valve is closed, means whereby the steam thus supplied will have access to opposite sides of the pistons within the respective cylinders and afterward pass to the exhaust connections and draft creating device, and means for preventing the free escape of steam, supplied and exhausting as aforesaid when the throttle valve is closed, from the draft creating device until pressure has been obtained by accumulation of steam therein.

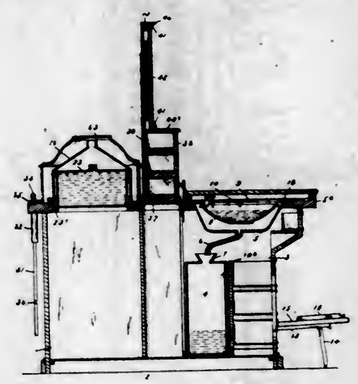
1,354,239. RAILROAD-RAIL BRACE. HORRY C. BUNNELL, Westport, N. Y. Filed May 10, 1920. Serial No. 380,092. 1 Claim. (Cl. 238—51.)



In a brace of the kind described, the combination with a rail, a brace bar passing under the rail base and angled to engage the outer edge of the base, said bar having an arm extending upwardly and inwardly and bearing against the rail at the juncture of the web and tread, a lug formed on the bar engaging the outer face of the base, a block secured to the bar and engaging the inner face of the base, and a longitudinally extending reinforcing plate secured on the under side of the bar and below said block and partly under the rail base.

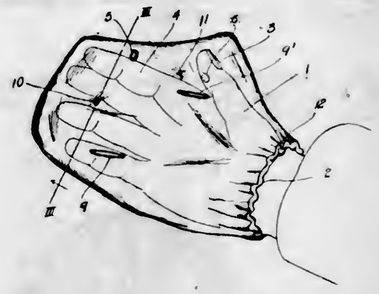
1,354,240. TOILET-CABINET. JOHN BURAKY, Windsor, Ontario, Canada. Filed Feb. 26, 1919. Serial No. 279,373. 2 Claims. (Cl. 45—38.)

1. A toilet cabinet comprising in combination a casing divided into a plurality of compartments, one of the panels of said casing being hingedly secured thereto and adapted to be turned downwardly and having a supporting bracket hinged thereto, a top on said casing, a basin adjustably supported above the foremost of said compartments and emptying into a draining pan located therebelow, a tank for receiving the water from said draining pan, a plurality of water receptacles supported above the rearmost of said



compartments and communicating with said basin through pipes, an adjustable covering for said basin, and a dresser slidable vertically in the center compartment by means of cables secured to the lower ends thereof and operating on spools supported from said casing and operable by means of handles secured on the outer sides of said casing, the frame of said dresser being adapted to support a towel rack slidable horizontally therein.

1,354,241. GLOVE. JAMES H. CARMEAN, Kansas City, Mo. Filed May 3, 1920. Serial No. 378,355. 2 Claims. (Cl. 2—102.)

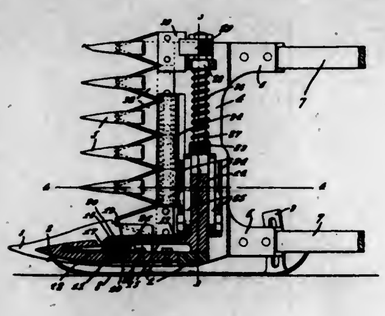


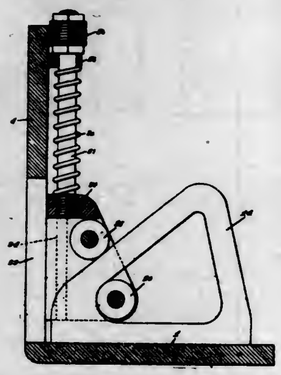
1. A glove comprising a bag-shaped member having an opening in its inner wall and an opening in its outer wall, said openings coöperating to support a pencil, the intermediate portion of the pencil being adapted to be grasped by the digits of the operator within the glove.

1,354,242. SICKLE-BAR ATTACHMENT FOR MOWING-MACHINES. EDWARD CARRAU, Moxee City, Wash. Filed Feb. 7, 1920. Serial No. 356,885. 2 Claims. (Cl. 56—316.)

1. The combination with a horizontal finger bar, a sickle bar mounted for reciprocation thereon, a shoe at one end of the finger bar, a standard upstanding from the shoe, guard fingers extending forwardly from the standard, of an upstanding sickle bar mounted for recipro-

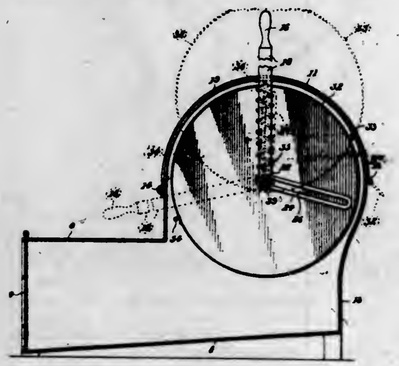
cation on the standard, a cam movable with the horizontal sickle bar, a member movably engaged and actuated by the cam, vertical guides for said member, yielding means





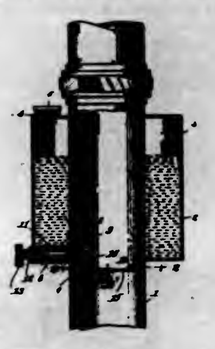
engaging the member for holding it normally depressed against the cam, and a detachable connection between said member and the vertical sickle bar.

1,354,243. ASH-SIFTER. JOSEPH CHYTRACEK, Clifton Mills, W. Va. Filed June 4, 1920. Serial No. 386,525. 5 Claims. (Cl. 83—60.)



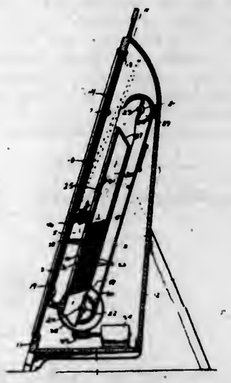
1. An ash sifter of the type described comprising a casing, a sifting drum revolubly mounted within the casing, and movable means for supporting the drum adapted upon shifting movement thereof automatically to project the drum from the casing.

1,354,244. DISINFECTING APPARATUS. HARLON ASHLEY CLIFFORD, Greenfield, Mass., assignor of one-half to James W. Cobb, Greenfield, Mass. Filed Apr. 25, 1918. Serial No. 230,739. 3 Claims. (Cl. 137—152.)



1. The combination with a flush pipe and a disinfectant holder, of a valve casing in communication with the interior of the holder and having a nozzle extending into the pipe, a tiltable plate hung within the pipe, weighted means for holding the plate normally pressed against the nozzle to close the end thereof, said plate being shiftable out of normal position by the pressure of water flowing through the pipe.

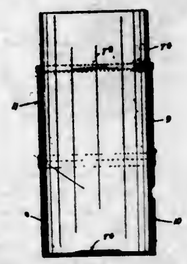
1,354,245. PICTURE-DISPLAY DEVICE. ATANAS P. DULGEROFF, Paducah, Ky. Filed July 16, 1919. Serial No. 311,244. 1 Claim. (Cl. 40—36.)



A device of the character described comprising an inclined front member having a display opening, a pair of inclined parallel guide members disposed behind the display opening in parallel relation thereto, each of said members having a portion of its inner surface and one of its front longitudinal edges reduced, a longitudinal marginal flange projecting from the rear of the inner confronting surface of each guide member, said flange forming a guide, each of said guide members having a slot extending through the marginal edge of its reduced portion, an endless channel in said reduced portion communicating with the slot, said channel inclining with the guide members, said guide flange forming one portion of the wall of said endless channel of each guide member, the other portion of the channel communicating with the slot, a support extending between said guide members in spaced relation to the channel, said support inclining upwardly from the lower portion of the display opening, picture holders having trunnions projecting from the sides thereof and movable in said channel, and power operated means adapted to enter the slot and communicating portion of the channel for engagement with the

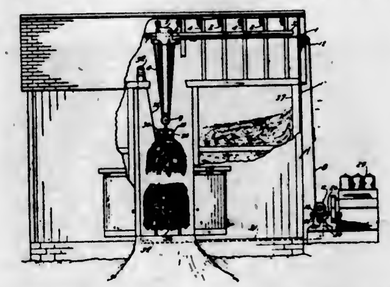
trunnions of the adjacent holder to move said trunnions through the channel, said holder assuming a vertical position after leaving the display opening and traveling in a vertical position into engagement with the inclined guide flanges, said guide flanges causing the holder to assume an inclined position and slide down the flanges in back of the preceding holders, said channel coöperating with the inclined support to cause the holders to move toward the display opening.

1,354,246. APPARATUS FOR DISPENSING ICE-CREAM OR OTHER MATERIAL IN PAPER CARTONS. ROBERT FERRIS, Yankton, S. D. Filed Apr. 8, 1920. Serial No. 372,177. 5 Claims. (Cl. 93—2.)



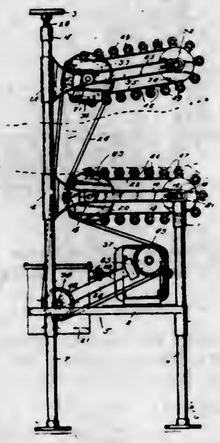
1. An apparatus for dispensing ice cream or other materials in paper cartons formed at the time needed for use, and which apparatus comprises a cup-shaped former on which the paper may be rolled and against the base of which its lower ends are adapted to be folded to produce a carton of cup-like shape, and a carton holder comprising an expansible and contractible approximately cylindrical shell, and a non-expansible shell container which, when applied around said shell, limits the expansion of said shell to such size that its interior is of but slightly greater diameter than the exterior of said former.

1,354,247. HAY-HANDLING APPLIANCE. EDWARD CHARLIE FREDRICKSON, Chetek, Wis. Filed Feb. 1, 1918. Serial No. 214,804. 1 Claim. (Cl. 212—79.)



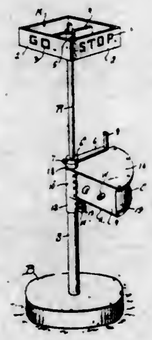
In a hay handling apparatus, an overhead runway, a carriage mounted for travel thereon, a supporting frame, upper and lower shafts journaled in the frame and provided with gears, winding drums mounted for rotation on the shafts, a bracket secured to the supporting frame near the lower drum, a shaft journaled in the bracket, a sheave secured to said shaft, a cable operatively connected with the carriage and upper winding drum respectively, a fork supported by the cable and including a trip device, a second cable operatively connected with the trip device and extending over the sheave on said shaft and connected with the lower winding drum, a worm interposed between and meshing with both gears for operating the same, and means for selectively operating the drums.

1,354,248. MACHINE FOR TREATING LIMBS. JAMES P. GARDNER, Chicago, Ill. Filed Jan. 27, 1919. Serial No. 273,349. 10 Claims. (Cl. 128—58.)



10. In a massage machine, the combination of a horizontally movable massage device, a second horizontally movable massage device positioned above the first-named device, means for actuating said devices, and means for adjusting the entire devices relatively to each other.

1,354,249. TRAFFIC-SIGNAL. DANIEL W. GORE, Buffalo, N. Y. Filed Dec. 6, 1919. Serial No. 343,005. 7 Claims. (Cl. 116—63.)

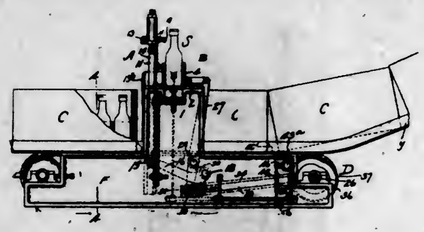


4. A signal of the class described comprising a standard supported for rocking movement, an indicating means coacting with the standard, a casing supported independently of the standard, a piston mounted within the casing and moving upon rotation of the standard, and a pneumatic signal in communication with the casing at opposite sides of the piston, said casing at each side of the piston being provided with a check control induction opening.

1,354,250. CRATING APPARATUS. LOUIS A. HAWTHORNE, Newark, N. J., assignor to Steel Utilities Incorporated, a Corporation of New York. Filed Dec. 28, 1918. Serial No. 268,738. 18 Claims. (Cl. 226—14.)

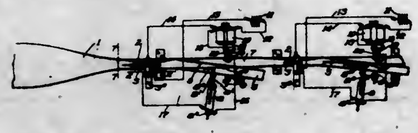
1. A crating apparatus including crate feeding means, a container collecting station above the crate feeding means, a transfer device for receiving the group of con-

tainers from the collecting station and holding the same therein, and an operating unit having synchronized oper-



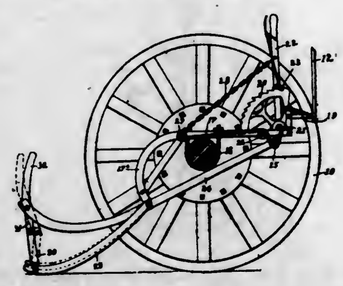
ating connections respectively with the crate feeding means and transfer device for lowering the latter toward the crate.

1,354,251. SARDINE SIZING AND SELECTING APPARATUS. FRANK HEATH, National City, Calif. Filed Feb. 13, 1919. Serial No. 276,819. 8 Claims. (Cl. 83—92.)



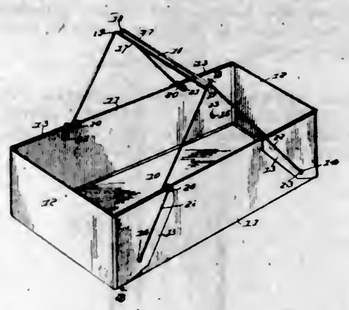
1. The herein described method of selecting sardines consisting in sliding said sardine past a flexible contact to be operated in accordance with its size then operating a solenoid, then opening a gate and passing said sardine into a side chute, then engaging a switch operating said solenoid and closing said gate.

1,354,252. TRACTOR ATTACHMENT. HIO JACOB HELMERS, Sibley, Iowa. Filed Feb. 10, 1920. Serial No. 357,671. 4 Claims. (Cl. 180—82.)



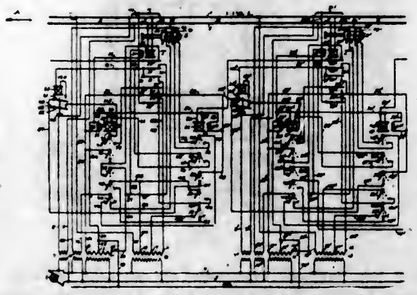
1. The combination of a tractor having a clutch control device, with an attachment comprising a member adapted to coact with the ground, and to be moved thereby when the front end of the tractor is tilted upwardly, a second member adapted when moved to one position to move the clutch control device, for rendering the clutch inoperative, and mechanism for operatively connecting said members for causing the second member to be actuated when the front end of the tractor is tilted upwardly said mechanism including a flexible device operatively connected with said first member, a lever for holding said flexible device taut fixed on said member, and a pawl and ratchet device arranged for holding said lever in any position to which it may be moved by the operation of said member.

1,354,253. FOLDABLE BASKET AND HANDLE THEREFOR. THOMAS M. HOUSE, Richmond, Va., assignor of one-half to Albert S. Kellam, Richmond, Va. Filed Feb. 21, 1920. Serial No. 360,279. 4 Claims. (Cl. 229—52.)



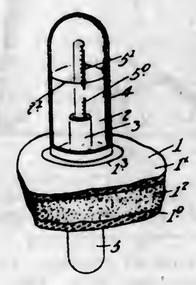
1. A basket comprising a body having a bottom, side walls and end walls all foldable upon the bottom or movable into planes at right angles thereto, the end walls having flaps overlapping the outer faces of the side walls, and said flaps and side walls being perforated adjacent the bottom, and a handle extending transversely over the body and having at each end downwardly, divergent hangers disposed on and bearing against the outer faces of the flaps, the lower extremities of said hangers being hooked to engage through the perforations, and the intermediate portions of the hangers being formed with inwardly and downwardly extending clips adapted to embrace the upper edges of the said flaps and the side walls and extending downward against the inner faces of the side walls, said clips forming the sole means for engaging the upper edges of the side walls with the upper edges of the flaps.

1,354,254. SYSTEM FOR GOVERNING RAILWAY TRAFFIC. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Nov. 16, 1915. Serial No. 61,789. 15 Claims. (Cl. 246—39.)



3. In a system for controlling railway traffic, in combination: a plurality of electrically isolated track circuited blocks, each having a track relay; an insulated ramp at the entrance of each of said blocks; a source of electrical energy for creating a difference of potential between each of said ramps and the track rails; and means for controlling the connection between said source and said ramp governed by the track relays associated with the next two blocks in advance of the corresponding block.

1,354,255. BATTERY-CELL HYDROMETER. PERCY DOUGLAS IVEY, Guelph, Ontario, and ALFRED JAMES SALISBURY, Toronto, Ontario, Canada, assignors, by direct and mesne assignments, to The Ivey Storage Batteries, Limited, Toronto, Canada, a Corporation of Ontario. Filed Apr. 14, 1919. Serial No. 290,050. 3 Claims. (Cl. 204—29.)



2. In a storage battery, the combination with the lid and guide-way extending therethrough, and a hydrometer extending up through the guide-way, of a transparent dome secured to the lid and extending over the guide-way and hydrometer, and a cover for the dome suitably secured in position thereon.

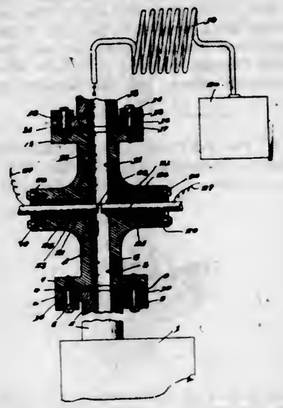
1,354,256. BATTERY-CELL. PERCY DOUGLAS IVEY, Guelph, Ontario, and ALFRED JAMES SALISBURY, Toronto, Ontario, Canada, assignors, by direct and mesne assignments, to The Ivey Storage Batteries, Limited, Toronto, Canada, a Corporation of Ontario. Filed Apr. 14, 1919. Serial No. 290,051. 2 Claims. (Cl. 204—29.)



1. In a storage battery cell, the combination with the walls and supporting ribs or bridges at the bottom of the cell, and the plates, of tie members extending across the cell and secured to the wall thereof and adapted to hold the plates rigidly on to the lower supporting ribs.

1,354,257. PROCESS FOR TREATING MINERAL OILS. WALTER JOHNSON, North Loup, Nebr. Filed Apr. 25, 1916. Serial No. 93,422. 2 Claims. (Cl. 204—5.)

1. The process of making lighter hydrocarbon oils which comprises vaporizing heavier mineral oil, and passing said vapors alone through a zone energized by the passage of electricity from one electrode to another to



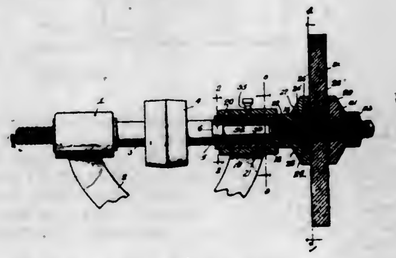
such a degree as to be capable of superheating and cracking the oil vapor.

1,354,258. RAILWAY-CROSSTIE. JOSEPH LEVENTRY, Johnstown, Pa. Filed Nov. 18, 1919. Serial No. 338,808. 5 Claims. (Cl. 238—38.)



3. The combination with a pair of parallel base sections having intermediate upstanding flanges along their inner longitudinal edges, said flanges having their opposed sides flatly in contact, lugs carried by said base sections and cooperating with said flanges for engaging parallel rails, a wedge support carried by each base section and slidably receiving the adjacent lug, and a wedge carried by each wedge support for forcing said lugs and said flanges into rigid contact with said parallel rails.

1,354,259. SHAFT-BEARING. RAYMOND F. LUSK, Lima, Ohio, assignor of one-half to John H. Monroe, Lima, Ohio. Filed Feb. 25, 1919. Serial No. 279,047. 2 Claims. (Cl. 64—10.)



1. In a shaft bearing, a bearing head, a bushing removably fixedly held in the head, a shaft provided with a shoulder and beyond the shoulder with a threaded portion, a bushing rotatably fitted within the first-mentioned bushing around the said shaft and bearing at its inner end against the shoulder upon the shaft and having its outer end extending partly over the threaded portion of the

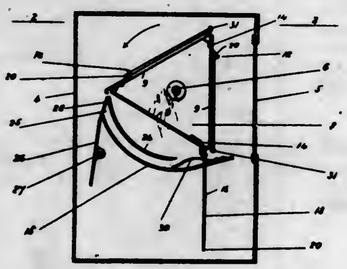
shaft, and an element threaded onto the shaft and bearing against the outer end of the last-mentioned bushing to clamp the same against the shoulder on the shaft whereby it will rotate with the shaft, the opposed faces of the bushings being parallel to the axis of the shaft and the first-mentioned bushing being shorter than the second-mentioned bushing whereby it will be out of contact with the clamping element and the shoulder on the shaft.

1,354,260. BUTTON-BUCKLE FOR GARMENTS. CLARA ALTA MARTIN, Pasadena, Calif. Filed Sept. 13, 1917. Serial No. 191,490. 3 Claims. (Cl. 24—201.)



1. The new article of manufacture set forth, to wit, a button buckle; the same consisting of two pieces that are separable; one of said pieces being a link, to one limb of which a strap-end may be fastened, and the other being a housing having a closed front and an open flat back and an edge between said front and said back, and having a passage with two openings; and a bar, to which bar another strap end may be fastened within the housing, said bar separating the openings and being in the same plane as the back of the housing; said housing being adapted to pass through the link endwise but not sidewise or when the back of the housing is in a plane oblique to the longitudinal axis of the link.

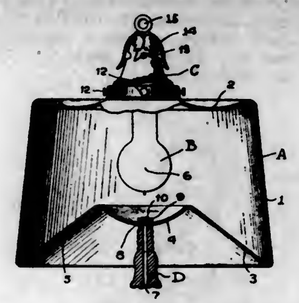
1,354,261. CARD-EXHIBITOR. MARION MATHER, Olean, N. Y. Filed June 10, 1920. Serial No. 387,927. 4 Claims. (Cl. 40—78.)



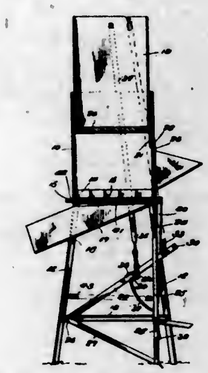
1. In a card exhibitor, revoluble frames provided with pivoted hooks for engaging with the cards, curved supporting bars and guide bars for the cards, cards provided with lugs which pass between the said bars, and pivoted reversing levers normally closing the entrance opening between the said bars and operated by the said lugs and enabling the fronts and backs of the cards to be displayed alternately.

1,354,262. GLOBE FOR LIGHTING-FIXTURES. FREDERICK W. MATHIEU, New York, N. Y. Filed June 23, 1919. Serial No. 306,051. 8 Claims. (Cl. 240—100.)

1. A globe for lighting fixtures having an outer, frustoconical reflecting and diffusing member, a substantially horizontal reflecting and diffusing member at one end of said outer member, and an inwardly extending diffusing and reflecting member at the other end of said outer member, said inwardly extending member comprising a central convex portion and a peripheral frusto-conical portion.

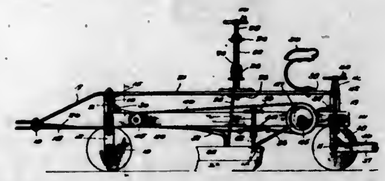


1,354,263. SEED-POTATO CUTTER. CARL P. MILLER and RALPH R. LEE, Fargo, N. D. Filed Aug. 13, 1919. Serial No. 317,367. 16 Claims. (Cl. 146—7.)



1. A device of the character described including a casing, a plunger shiftable therein, a cutting knife carried by the casing, means for shifting the plunger toward the cutting knife, means for releasing the plunger from said first-mentioned means before the plunger reaches the cutting knife, and a second cutting knife shiftable relative to the first knife.

1,354,264. ROAD-GRADER. CARL P. MILLER, Fargo, N. D. Filed Aug. 13, 1919. Serial No. 317,368. 9 Claims. (Cl. 37—7.)



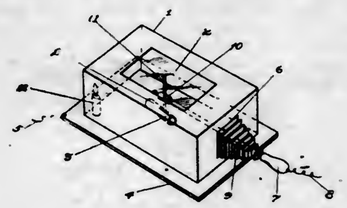
8. A grading machine including a frame, arms pivotally connected with the frame, companion blades freely mounted upon said arms, means coupled with the blades for elevating or lowering the blades, means for rotating the blades upon the arms to position the blades in angular relation to each other, and means connected to corresponding end portions of the blades for rocking the blades upon the arms and tilting the blades longitudinally.

1,354,265. SHUTTLE. JAMES H. OLIVER, New Bedford, Mass. Filed Mar. 15, 1920. Serial No. 365,756. 10 Claims. (Cl. 139—27.)



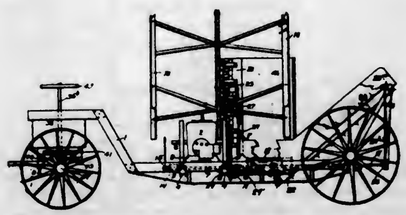
2. In a shuttle, a plate having a pair of spaced eyes each having communication with the front side edge of the plate, an arm connected to the outer end of the plate, and thread engaging means borne by the arm and by the plate to limit transverse movement of the thread.

1,354,266. METHOD OF ELECTRICALLY WELDING STEEL. JOHN W. PLANT, San Mateo, Calif. Filed Apr. 29, 1919. Serial No. 293,459. 2 Claims. (Cl. 219—8.)



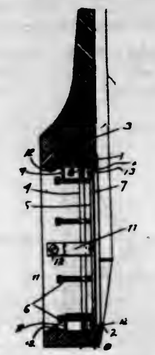
1. The improvement in the art described, which consists in introducing the part to be welded and an electrode formed of corresponding material within a welding chamber, expelling the oxygen from said chamber so as to provide a surrounding non-oxidizing atmosphere, thence passing an electric current through the confined parts for a fusing of the electrode with the metal to be welded or repaired without causing oxidization of the metal in the arc formed on the electrode being brought into contact with the metal to be treated.

1,354,267. TREE TRIMMING AND HARVESTING MACHINE. G ARCHIE RUSSELL, Orlando, Fla. Filed Apr. 16, 1918. Serial No. 228,939. 1 Claim. (Cl. 56—23.) (Filed under the act of March 3, 1883, 22 Stat. L., 625.)



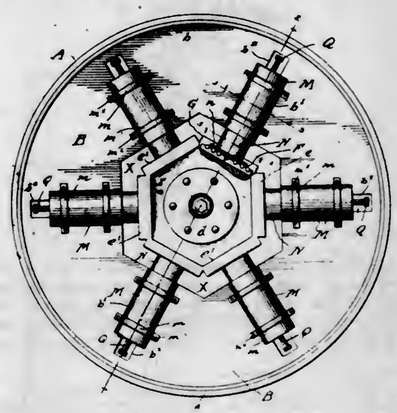
A tree trimming and harvesting machine comprising a vehicle, a motor mounted thereon, a reel having shafts and gears connecting the same with said motor, cutting mechanism, the lower end of which is secured to a rocker arm, said rocker arm in turn forming contact with a pitman rod which is connected with said motor by gear wheels and shafting, and means for catching branches and twigs of trees severed by the operation of said reel and said cutting mechanism and for conveying said cut branches and twigs to the rear of said vehicle.

1,354,268. BANJO. GEORGE SANDSTROM, Oakland, Calif. Filed Dec. 12, 1917. Serial No. 206,746. 2 Claims. (Cl. 84—269.)



1. A tightening device for banjo heads and other musical instruments having an open rim, a flexible head interposed within the opening of the said rim, an annular lip integral with the said rim, and projecting inwardly from the top thereof, a flat top ring fixedly attached by screw 13 and by bracket 11, to the inside circumference of the said rim over which the said head is drawn, a bottom flat ring interposed parallel to the said top ring and having in its outside circumference an annular groove, a cord embedded therein, the outer edge of the said flexible head passing within the said groove and being firmly held by the said cord; a ring provided with holes and interiorly threaded, a multiplicity of set screws in the said holes and engaging with the threads thereof, and the points of the said set screws resting against the lower surface of the said top ring, by which the said flexible head is pressed firmly against the said annular lip in the said rim.

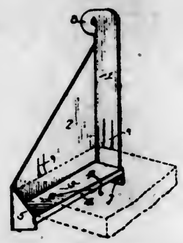
1,354,269. VEHICLE-WHEEL. THOMAS VICTOR WASHBURN, Carbondale, Pa., assignor of one-half to Patrick Joseph Murray, Carbondale, Pa. Filed Feb. 25, 1920. Serial No. 361,235. 4 Claims. (Cl. 152—48.)



2. A vehicle wheel comprising a rim, a hub, a connecting member secured to the hub and having a chambered periphery, roller bearings arranged in said chambers and comprising a series of rollers in each chamber arranged tangentially with reference to the hub, and spokes connecting the rim with the connecting member comprising an outer

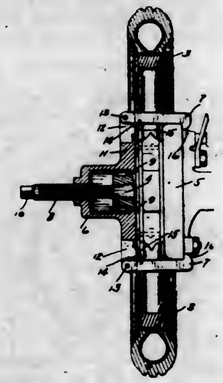
set of cylinders rigidly connected with the rim, an inner set of cylinders telescoping with those first mentioned and which bear at their inner ends on the roller bearings, and cushioning means within the cylinders.

1,354,270. SHELF-BRACKET. CHARLES F. WOOD, Chicago, Ill. Filed May 8, 1919. Serial No. 295,556. 9 Claims. (Cl. 248—18.)



1. A bracket formed from sheet material and including a vertical web, a hanger strip adjacent to one edge thereof and disposed at right angles to the web, and a horizontal ledge adjacent to the web, the hanger strip having a portion engaged by the ledge for supporting the latter.

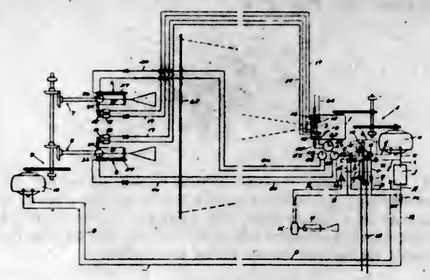
1,354,271. WHEEL-PULLER. ARMIN G. ALBRECHT, St. Paul, Minn. Filed Oct. 16, 1919. Serial No. 331,046. 4 Claims. (Cl. 29—86.)



1. A wheel puller comprising a cap having a wheel hub-engaging surface, a plurality of circumferentially spaced grapple hooks pivoted to the cap, springs under strain to swing the grapple hooks radially inward, and a screw having screw-threaded engagement with the cap.

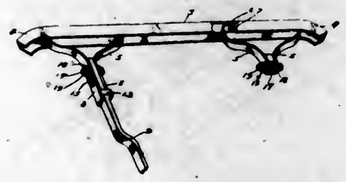
1,354,272. APPARATUS FOR PRODUCING TALKING-MOTION-PICTURE ENTERTAINMENTS. CYRUS NEWTON ANDREWS, Yucaipa, Calif. Filed Sept. 23, 1915, Serial No. 52,306. Renewed May 13, 1920. Serial No. 381,211. 18 Claims. (Cl. 88—16.2.)

1. The combination with an auditory record having indicia thereon, of a motion picture film having corresponding indicia, a dial adapted and arranged to be actuated in synchronism with both the auditory record and the picture film to indicate the position of the active portion of the



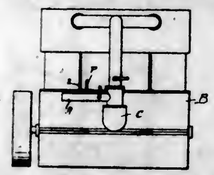
auditory record, and means to effect synchronism between said record and film.

1,354,273. AUTOMOBILE-BUMPER. ERNEST A. ARNOLD and BRUNO E. ROTHIG, Eau Claire, Wis. Filed Mar. 29, 1920. Serial No. 369,698. 4 Claims. (Cl. 293—55.)



3. An automobile bumper, comprising a bumper bar, brackets, each bracket comprising two members, the free ends of said members being positioned parallel to one another and provided with horizontal slots, an automobile chassis, arms secured to said chassis and projecting forwardly therefrom, the free ends of said arms being apertured and adapted to lie between the parallel ends of said brackets, bolts pivotally connecting said brackets to said arms and coöperating with said pivots to position the bumper bar substantially horizontal, as and for the purpose set forth.

1,354,274. INTERNAL-COMBUSTION ENGINE. CHARLES B. ASHWORTH, Detroit, Mich. Filed Dec. 13, 1919. Serial No. 344,656. 3 Claims. (Cl. 123—119.)

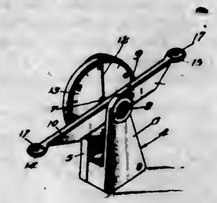


1. The combination with a crank case of an internal combustion engine and the air intake of a carbureter coacting with said structure, a conduit substantially V-shaped in form with its apex upwardly directed, one end portion of the conduit being in communication with the crank case through the top wall thereof and secured to said top wall, the opposite end portion being in communication with the air intake secured to a wall thereof.

1,354,275. BALANCE. WILLIAM F. BACHMAN, Chicago, Ill. Filed Sept. 13, 1919. Serial No. 323,568. 2 Claims. (Cl. 265—49.)

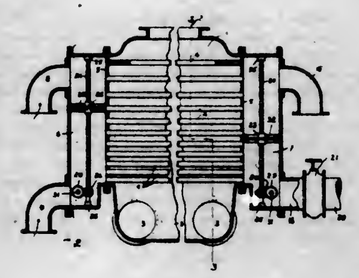
1. A balance for the purpose specified comprising a beam, a pivotal mounting in the central portion of the

same, a pointer in conjunction with said pivotal mounting, and a scale in conjunction with said pointer for showing the condition of balance or unbalance of the beam, there being a concave cup on each end of the beam, said cups being located equidistant from the pivotal center



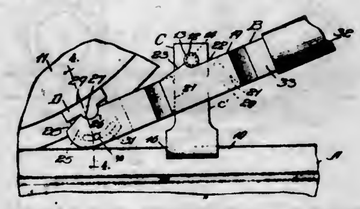
of the beam, and each cup having its concavity facing upwardly and being provided in the lower central portion of its concavity with a downwardly extending perforation or recess for the accommodation of the shank of a screw under test, substantially as described.

1,354,276. SURFACE CONDENSER. PAUL A. BANCEL, Nutley, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 2, 1918. Serial No. 220,081. 11 Claims. (Cl. 257—43.)



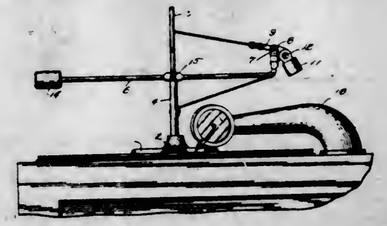
1. A surface condenser comprising spaced apart water chambers, tubes connecting said chambers, inlet and outlet connections for said chambers, an element in one of said chambers for dividing the flow of fluid through said tubes into two streams and means for varying the position of said element to vary the relative number of tubes carrying the said streams.

1,354,277. CAR-MOVER. WILLIAM A. BOCK, Chicago, Ill. Filed Sept. 19, 1919. Serial No. 324,827. 3 Claims. (Cl. 254—37.)



1. In a car mover, the combination with an operating lever having an elongated slot therein intermediate its ends, of a wheel engaging shoe pivotally mounted on the inner end of said lever, the opposite end of said lever being adapted for manual operation, and adjustable means for clamping a rail tread, said means comprising a pair of clamping elements having flanges adapted to engage the opposite sides of a rail tread, a pin on which said elements are loosely mounted, said elements extending through said slot of the lever and adapted to be pressed toward each other when the outer end of the lever is depressed to thereby effect clamping of the rail, said clamp acting as a fulcrum for the lever in the continued movement thereof.

1,354,278. SPEED-INDICATOR. JOSEF BRANDSTETTER, Chicago, Ill., assignor to Acme Engineering & Mfg. Co., Chicago, Ill., a Corporation of Delaware. Filed Mar. 8, 1920. Serial No. 364,205. 5 Claims. (Cl. 264—20.)

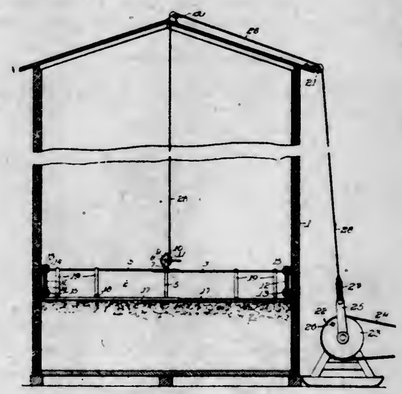


1. In a speed indicator for phonographs, a base equipped with means for engaging the spindle of the phonograph table, a stem carried by the base in alinement with the spindle, a transverse arm fast on the stem, and a weighted lever pivoted on the free end of the arm, the stem having a peripheral groove and the lever having a forked end straddling the stem and adapted to aline with the groove in the stem when the lever is swung to a predetermined position by centrifugal action on the weighted portion thereof.

1,354,279. PROCESS OF DEHYDRATION. ARTHUR W. BROWNE, Ithaca, N. Y. Filed May 31, 1917. Serial No. 171,937. 11 Claims. (Cl. 23—13.)

1. The process of dehydration consisting in treating a water containing material with a dehydrating agent in a non-aqueous liquid solution.

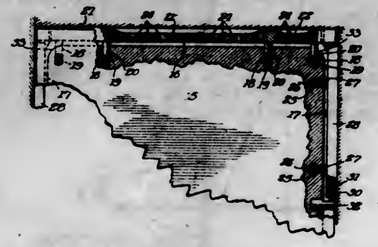
1,354,280. SILO-PACKER. EDWARD W. BURGESS, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Apr. 6, 1914. Serial No. 829,866. 16 Claims. (Cl. 100—57.)



1. A silo packer adapted to have a rising and falling movement within a silo, and means whereby the packer may be slidably adjusted for use in silos having different diameters.

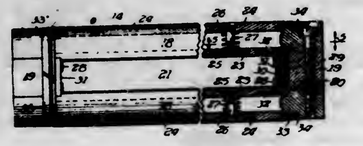
16. A silo packer adapted to move within a silo, and having yielding means for guiding purposes.

1,354,281. PISTON-VANE. JOHN D. CARROLL, West Lafayette, Ind., assignor to Turbo Rotary Engine Company, Evansville, Ind., a Corporation of Indiana. Filed Jan. 20, 1919. Serial No. 272,021. 7 Claims. (Cl. 121—88.)



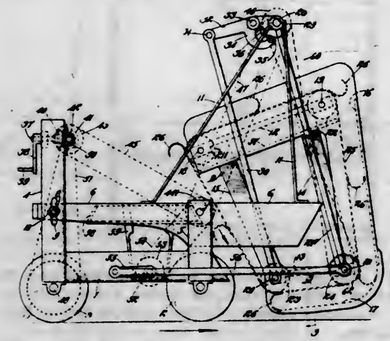
1. A piston vane having a channeled outer edge and formed with sockets in the bottom wall of said channel, springs seated in said sockets, thrust pins also seated in said sockets and pushed outwardly by said springs, and a packing strip mounted in said channel with its inner edge lying in contact with the outer ends of said pins.

1,354,282. ROCKER FOR PISTON-VANES. JOHN D. CARROLL, West Lafayette, Ind., assignor to Turbo Rotary Engine Company, Evansville, Ind., a Corporation of Indiana. Filed Jan. 20, 1919. Serial No. 272,022. 7 Claims. (Cl. 121—88.)



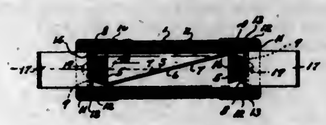
1. A rocker for piston vanes, consisting of a cylindrical body formed with a central longitudinal slot to accommodate a piston vane and with longitudinal slots in the sides of said body in a plane at right angles to said first-named slot, inner and outer packing strips lying in each of said last-named-slots, springs between said packing strips forcing them apart, and means for limiting the extent of outward movement of each of said packing strips.

1,354,283. CRANBERRY-PICKER. WILLIAM B. CLAPP, Abington, Mass. Filed Nov. 29, 1918. Serial No. 264,515. 11 Claims. (Cl. 56—330.)



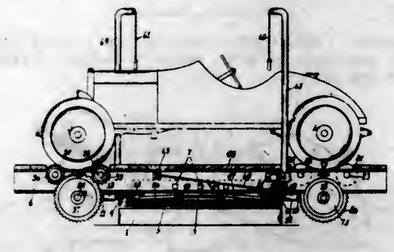
1. A cranberry picking machine having wheels on which it is mounted, means for actuating the wheels and thereby propelling the machine on the surface of the ground, picker fingers oscillatably mounted in such manner that on their stripping stroke they will move in a direction opposite to the direction of travel of the machine on the ground, a series of scoops mounted to travel just above the picker fingers, means whereby the mechanism for driving the wheels which propel the machine also actuates the picker fingers and the scoops, and means whereby the scoops travel in the opposite direction to the direction of the forward movement of the picker fingers.

1,354,284. REFILLABLE CARTRIDGE-FUSE. FRANK L. COOLEY, Brooklyn, N. Y. Original application filed Jan. 8, 1919, Serial No. 270,113. Divided and this application filed Sept. 11, 1919. Serial No. 323,102. 4 Claims. (Cl. 200—132.)



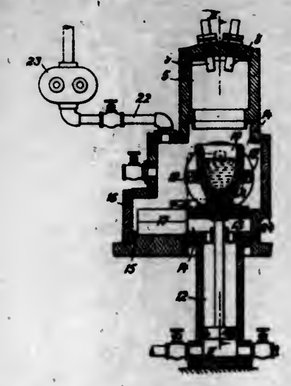
1. A refillable cartridge fuse comprising a tubular casing, transverse cross nuts fixed within the open ends of said casing, a fuse link having end terminals engaged over said cross nuts, removable ferrules slidable over the ends of said casing, said ferrules having diametrically disposed slots in their end walls, detachable knife-blade contact elements having oppositely and laterally directed foot-pieces at their inner ends, said knife-blade contact elements being adapted to be passed outwardly through said slots, and fastening means adapted to pass through said end walls of said ferrules and through said foot-pieces of said knife-blade contact elements to engage said cross nuts to clamp said foot-pieces in electrical contact with the end terminals of said fuse link.

1,354,285. TURNTABLE. ADOLPH COUPEE and ALFRED KRAFT, Oakland, Calif. Filed Jan. 24, 1920. Serial No. 353,791. 5 Claims. (Cl. 104—41.)



1. In a turntable, a stationary gear, a turnable automobile supporting frame, a pair of rollers journaled in said frame, gears on the shafts of said rollers, a shaft journaled in said frame, a gear on said shaft meshing with said roller gears, a beveled gear on said shaft, a pinion shaft journaled upon said frame, a pair of pinions on said shaft, one of said pinions meshing with said stationary gear and the other pinion meshing with the beveled gear on said shaft.

1,354,286. METHOD OF AND APPARATUS FOR MELTING AND CASTING METALS. JEAN HUBERT LOUIS DE BATS, Stonehem, Mass., assignor to New Process Metals Corporation, Wilmington, Del., a Corporation of Delaware. Filed Mar. 27, 1919. Serial No. 285,609. 5 Claims. (Cl. 22—209.)



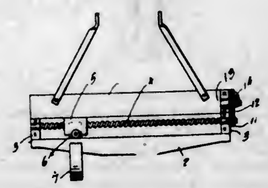
2. The method herein described which consists in melting and casting in a single integral structure from which air is excluded.

1,354,287. PISTON PACKING-RING. ROBERT I. ERLICHMAN, Philadelphia, Pa. Filed May 14, 1919. Serial No. 297,171. 8 Claims. (Cl. 74—109.)



7. A piston packing ring, comprising a member having a cylindrical outer surface and transversely severed to permit expansibility and compressibility of the ring, and the said surface being provided with a circumferential groove wandering alternately from one to the other of the laterally opposite sides of said member and defined by two laterally opposite surfaces converging inwardly at an acute angle, and the bisector of said angle extending at an acute angle with the said outer surface.

1,354,288. PLOW-HITCH. THOMAS G. EUBANKS and JOHN B. BENNETT, Walla Walla, Wash. Filed May 14, 1919. Serial No. 297,058. 2 Claims. (Cl. 213—67.)



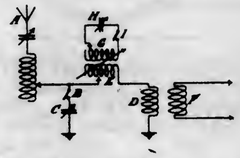
1. In a plow hitch, the combination of a slotted frame having a front and rear plate and having a worm operably mounted in said frame, and a block operably mounted on said worm and slidably mounted on said plates, a roller mounted in said block and positioned to engage the inner side of said rear plate, and a clevis mounted on said roller and positioned slidably astride said rear frame in a manner to maintain a relatively horizontal position thereto and to act as a guide to said block against disalinement.

1,354,289. GARMENT. STERLING E. FEIGE, Akron, Ohio. Filed Feb. 10, 1919. Serial No. 276,158. 3 Claims. (Cl. 2—144.)



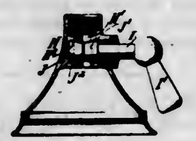
1. A garment, comprising trousers provided with shoulder straps having adjustably connected apron supporting elements at their front, a protecting apron having a section extending over and a second section extending upwardly from the front of said trousers, said second upwardly extending section being provided at its edges with coupling elements detachably connected with said apron supporting elements, and a waist band secured to the sides of said apron and substantially spaced from and below said coupling elements.

1,354,290. RECEIVER OF WIRELESS SIGNALS. ERNEST EDWARD FRANKIS, Helston, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed June 19, 1920. Serial No. 390,189. 7 Claims. (Cl. 250—20.)



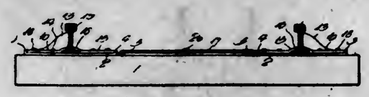
1. In a receiver for wireless signals, the combination of an aerial, two parallel earth connections thereto, an oscillatory circuit coupled to one only of the connections and a receiving circuit coupled to the same connection and independent of the other earth connection.

1,354,291. COMBINED MIXING AND DELIVERY VALVE SYSTEM. JAMES FRASER, Wilmington, Del., assignor to Speakman Company, Wilmington, Del., a Corporation of Delaware. Filed June 12, 1920. Serial No. 388,422. 3 Claims. (Cl. 277—56.)



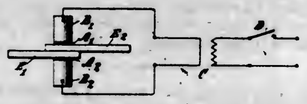
2. In combination with pipes for conducting hot and cold water to a mixing valve, a mixing valve, a delivery pipe leading from said valve and a plug cock for controlling flow through said delivery pipe formed with a supplemental port of restricted area which remains open when the cock is closed.

1,354,292. RAIL-FASTENING DEVICE. LOUIS FRITZ, Los Angeles, Calif. Filed Oct. 21, 1919. Serial No. 332,327. 2 Claims. (Cl. 238—288.)



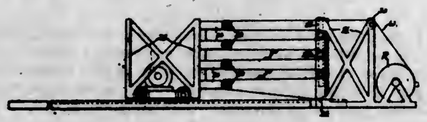
1. A device of the class described comprising a pair of substantially rectangular base plates having their outer ends upturned and their inner ends provided with lateral extensions and upturned portions, outer rail braces riveted to the outer ends of said base plates and having their outer edges abutting the upturned outer ends of said base plates, inner rail braces secured to the inner ends of said base plates and having their inner edges abutting the upturned inner ends of said base plates and the adjacent ends of said braces being shaped to receive and clamp rail sections thereunder, and a tie plate having its ends coupled to the extensions of said base plates.

1,354,293. SLUG-WELDING. JAMES H. GRAVELL, Elkins Park, Pa., assignor to Thomson Spot Welder Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 20, 1919. Serial No. 318,654. 7 Claims. (Cl. 219—4.)



1. In an apparatus of the character described, an electrode having its contact end or surface provided with means for locating the slug and combined with magnetizing means surrounding said electrode to hold the slug when located in position.

1,354,294. CLOTH-FOLDING APPARATUS. WILLIAM M. GUSTIN, Hingham, Mass., assignor of one-half to Elden H. Jennison, Weston, Mass. Filed Apr. 6, 1920. Serial No. 371,673. 4 Claims. (Cl. 270—30.)



1. Cloth folding apparatus, comprising a relatively stationary frame equipped with a series of horizontal rolls spaced apart vertically and mounted for swinging movement from one end thereof, a table to receive the cloth folds, and a car mounted to operate on a track over said table, said car bearing a series of horizontal rolls vertically spaced apart and mounted so as to pass between the rolls on said frame to a position inward thereof, said car rolls having a mounting to swing from one end thereof.

1,354,295. GAS-BURNER FOR WATER-HEATERS. PAUL H. HAMILTON, New York, N. Y., assignor to Esda Manufacturing Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 6, 1918. Serial No. 220,715. 5 Claims. (Cl. 158—112.)

1. A burner of the character specified, comprising in combination, a vertical body portion having gas and air inlets in the lower end thereof, said body portion being provided with a vertical commingling bore forming the passageway for the air and gas, a mixing screen covering the upper end of said commingling bore, said mixing screen comprising a cylinder having one end flattened and closed to provide upwardly and inwardly inclined walls, the upper



part of said body portion being enlarged to form a mixing chamber around said mixing screen and out of contact therewith, and a burner head above said mixing screen and also out of contact therewith.

1,354,296. GAGE-GLASS GUARD. ANDREW L. HATFIELD, Hillside, N. J., assignor to The Strong Machinery & Supply Co., a Corporation of New York. Filed June 6, 1919. Serial No. 302,211. 2 Claims. (Cl. 73—54.)

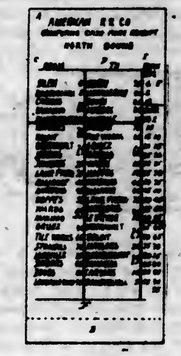


1. A gage glass guard comprising an enveloping spirally convoluted body having longitudinally contractible end portions, and a rigid bracing strip extending through said body to which the intermediate portion of the latter is secured to retain the same against longitudinal contraction.

1,354,297. RAILWAY-FARE-RECEIPT TICKET. CLARENCE W. HEATH and WILLIAM P. CONLIN, Bellevue borough, Pa. Filed Jan. 19, 1920. Serial No. 352,293. 6 Claims. (Cl. 283—30.)

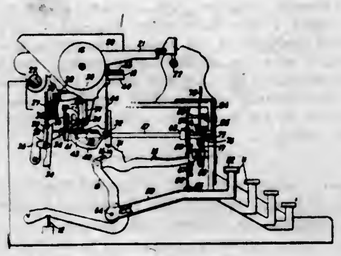
1. A railway fare receipt ticket comprising a strip of paper having its intermediate portion slit to form parallel columns, one column being the departure column, containing the station names in sequence of travel, and the

other column being the destination column, containing the station names in reverse sequence, and numbers associated in parallelism with the station names in each column, the relative values of said numbers being such that the difference between the number associated with a station name in the departure column and the number associated with a station name in the destination column equals the fare between said stations, and in case of a constant overlap the common number of said overlap



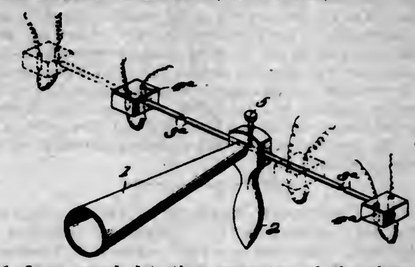
group of stations being printed but once opposite said group, whereby when the departure column is severed under the number of the departure station in the departure column and under the number of the destination station in the destination column the upper detached portion of the ticket forms a fare receipt wherein the difference between the last number in the departure column and the last number in the destination column is the amount of fare collected.

1,354,298. TYPEWRITING-MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 19, 1917. Serial No. 163,111. 31 Claims. (Cl. 197—157.)



1. In a typewriting machine, the combination with a ribbon-vibrator and actuating means therefor, of shifting means for said actuating means, said shifting means comprising a key, a shiftable element with two inclined surfaces thereon, a pivoted element engaging with either one of said inclined surfaces to guide said pivoted element into engagement with hook-like portions at the end of said inclined surfaces, said pivoted element engaging with said hook-like portion to move said shiftable element to change the setting of said actuating mechanism, and a return spring which swings said pivoted element during its initial effective movement to engage with the proper inclined surface of said shiftable element.

1,354,299. SOUND-DIRECTION INDICATOR. WILLIAM S. HOGG, Washington, D. C. Filed Mar. 14, 1919. Serial No. 282,651. 18 Claims. (Cl. 181—0.5.)



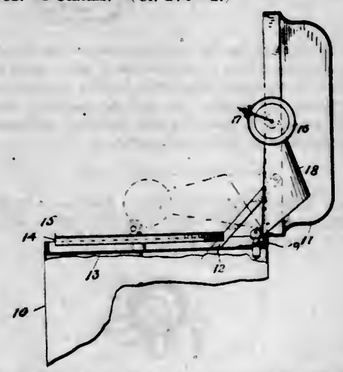
1. In a sound detecting apparatus of the character specified, a sound wave receiver, a tuning element connected therewith, and a sound amplifier connected with the tuning element.

1,354,300. STEM-WINDING AND STEM-SETTING WATCH. ERNEST H. HORN, Waterbury, Conn., assignor to Waterbury Clock Co., Waterbury, Conn., a Corporation. Filed Feb. 13, 1920. Serial No. 358,317. 5 Claims. (Cl. 58—68.)



1. In a stem-winding and stem-setting watch of the push-in-to set type, the combination with the winding-ratchet and the winding-and-setting stem thereof, of a spring for operating the said winding-ratchet from opposite sides of the said stem, and an independent spring for operating the said stem.

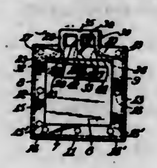
1,354,301. TALKING-MACHINE. PERCY A. HORAWELL, Cleveland, Ohio, assignor, by mesne assignments, to The Cleveland Phonograph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 17, 1916. Serial No. 84,762. 4 Claims. (Cl. 274—2.)



1. In a talking machine, a cabinet comprising a body portion having a hinged cover adapted to be swung down-

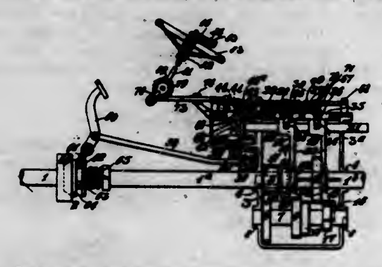
wardly to closed position and upwardly to elevated position, a horizontal platform at the upper part of the cabinet, a sound reproducer and a sound conveying means connected at its forward end to the reproducer and extending substantially horizontally rearward therefrom, said sound conveying means when in operative position having its rear open end directed toward the cover when the latter is elevated and adapted to be swung upwardly to inoperative position into the cover, said end being inclined from its lower rear portion upwardly and forwardly away from the cover to permit said swinging movement to inoperative position.

1,354,302. STORAGE-BATTERY CASE. ALBERTSON HOWARD, Indianapolis, Ind., assignor of one-third to Melvin F. Lane, and one-third to Floyed T. Peterman, Indianapolis, Ind. Filed Feb. 28, 1920. Serial No. 361,937. 7 Claims. (Cl. 217—65.)



1. A case including a plurality of parts connected together to form corners, each of the parts adjacent to each corner having lugs embedded therein and having also a binder plate on the outer side thereof and integral with the lugs, the plates on adjacent parts being integrally connected each to the other and also to the plates on the other adjacent parts of the case.

1,354,303. SPEED-CONTROLLING MECHANISM FOR AUTOMOBILES. MERION J. HUGGINS and WILLIAM C. DAESSLER, New York, N. Y.; said Huggins assignor of his right to Automotive Development Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 5, 1916. Serial No. 113,283. 30 Claims. (Cl. 74—58.)



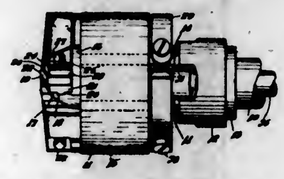
1. In an automobile, the combination of speed changing gears, a movable member, mechanism to move said member to positions in opposite directions from a neutral position and to restore the member to neutral position, means to lock any one of said gears to said member, and means to lock said member to said mechanism.

1,354,304. RESILIENT WHEEL. BENJAMIN JENDRYKE, San Francisco, Calif. Filed Jan. 29, 1918. Serial No. 214,273. 2 Claims. (Cl. 152—8.)



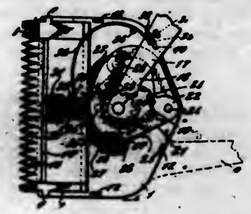
2. In a resilient wheel of the character described, the combination of a casing with an inner tube, a strip forming said inner tube, loops secured to the oppositely disposed contiguous edges of said strip and a lacing cord threaded through all of said loops, a spring within said tube composed of a plurality of convolutions pressed in opposite directions to closely fit against the inner wall of said tube, said lacing cord controlling the resiliency of each of said convolutions, substantially as described and for the purpose set forth.

1,354,305. THREADING ATTACHMENT. CHARLES A. JOHNSON, Unionville, Conn. Filed Dec. 12, 1917. Serial No. 206,734. 15 Claims. (Cl. 10—100.)



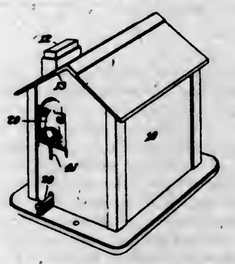
2. A threading attachment including a body part, a die holder movably mounted in the body part and having an opening for a thread cutter, a clamp mounted for rocking clamping action in said opening and extending lengthwise thereof and of a cutter therein to clamp said cutter, and means at one end of the clamp to force its opposite end into contact with the cutter.

1,354,306. MANUALLY-OPERATED HAIR-CLIPPERS. JOHN N. JOHNSON, Albuquerque, N. Mex. Filed Dec. 24, 1919. Serial No. 347,107. 6 Claims. (Cl. 30—1.)



1. A clipper comprising a base having a slot in the front edge thereof, a stationary cutter disposed in said slot and pivotally mounted on the base, a movable cutter adapted to contact with the pivoted cutter and by means of the pivotal mounting of the latter lie flat thereagainst, and a cover for holding the movable cutter in position and uiding it in its excursions along the face of the stationary cutter.

1,354,307. CABINET FOR CIGARETTES. CHARLES T. JOSLIN, Feura Bush, N. Y. Filed June 3, 1920. Serial No. 386,197. 18 Claims. (Cl. 211—8.)



1. In a device of the kind described, a magazine, an ejector for ejecting articles therefrom, a manual member to actuate said ejector and adapted to be shifted manually into and out of operative connection therewith.

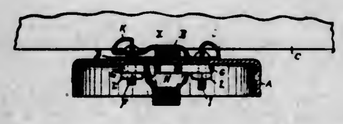
3. In a device of the kind described, a magazine in the cabinet, an ejector for ejecting articles from the magazine, a normally concealed device movable into and out of view, and a manual member for actuating the ejector or the normally concealed device at will.

1,354,308. METHOD OF AND APPARATUS FOR AFFIXING OBJECTS ON CARDS OR LIKE SUPPORTS. EMIL KOLLMAR, Pforzheim, Germany, assignor to The Corporation of Kollmar & Fourdan A.-G., Uhrkettenfabrik, Pforzheim, Baden, Germany. Filed Dec. 2, 1915. Serial No. 64,651. 3 Claims. (Cl. 112—104.)



1. In an apparatus of the character described, the combination of a needle carrying a thread adapted, in its reciprocations, to lay the thread around an object, grippers to hold said thread, movable pincer jaws to loop said thread, means to pass the loosened ends through the loop thus formed and means to draw the knot taut.

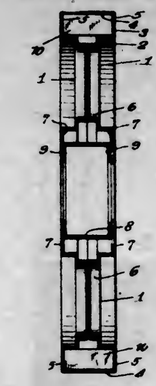
1,354,309. SUPPORT FOR OUTLET-BOXES. EDWARD H. KRUSE, Fort Wayne, Ind. Filed Dec. 17, 1917. Serial No. 207,476. 1 Claim. (Cl. 248—35.)



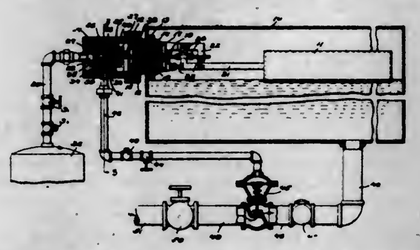
In a device for mounting outlet-boxes, a supporting bar; a clip having a base and tongue; and two bolts having slotted heads, one of which extends through the base and the other through the tongue, the respective ends of the base and tongue being bent over the heads of the corresponding bolts with their extremities extending into the slotted heads thereof, said bar being adapted to be clamped between the tongue and base when the outlet-box is secured upon said bolts.

1,354,310. SHEET-METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Dec. 12, 1918. Serial No. 266,418. 3 Claims. (Cl. 21—69.)

1. A sheet metal wheel comprising a pair of sheet metal plates assembled back to back, said wheel having a hollow rim, a hollow hub, struck up bosses intermediate the hollow rim and hub and connected thereto by offset portions forming a step-like connection between the bosses and rim and hub.

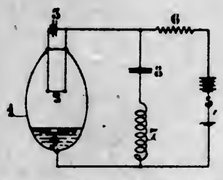


1,354,311. AUTOMATIC LIQUID-LEVEL CONTROLLER. FRANCIS H. LANDRUM, Columbus, Ohio. Filed Sept. 4, 1915. Serial No. 49,104. 1 Claim. (Cl. 137—68.)



The combination with a receptacle, of a packing gland extending through a wall of the receptacle, a valve casing secured to the packing gland and provided with a valve chamber having oppositely disposed seats, a nut secured in said chamber, one of said seats being arranged in said nut, a ball valve vibratile between the seats, a cage on the nut retaining the valve in position, a pressure regulating tank communicating with one of said seats and adapted to be closed off by the valve when in one position, a float in said receptacle provided with an operative connection to the ball valve, a fluid supply pipe leading to said receptacle, a valve in said supply pipe controlled by fluid pressure and a branch pipe leading from one side of the chamber intermediate the valve seats and communicating with the valve controlling the fluid supply pipe.

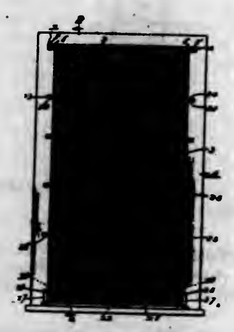
1,354,312 GENERATOR OF SUSTAINED ELECTRIC WAVES OR OSCILLATIONS. MARIUS LATOUR, Paris, France. Filed Nov. 25, 1916. Serial No. 133,391. 4 Claims. (Cl. 250—36.)



1. A generator of sustained waves of very low intensity for receiving in the heterodyne system of wireless teleg-

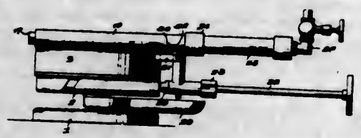
raphy, comprising a vacuumized bulb, a vapor emitting metal within the bulb, anode and cathode wires passing into the bulb, a filament connecting the cathode wires within the bulb and a source of current connecting these wires without the bulb, and a source of continuous current and an oscillating circuit each connected between said anode and cathode wires.

1,354,313. ROLLING SCREEN. WILLIAM F. LEACH, Childress, Tex. Filed Nov. 12, 1918. Serial No. 262,186. 2 Claims. (Cl. 156—39.)



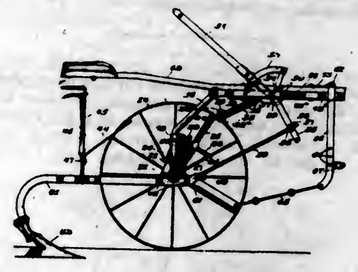
2. A rolling screen consisting of a spring actuated roller and means for mounting the same in a window frame, a wire mesh screen carried by the said roller, a rail connected with the screen at the end remote from the roller and projecting laterally beyond the side edges of the screen, and L-shaped members for pivotal mounting on the window frame, one leg of each of said members being of U-shaped construction at its extremity for engagement over one of the projecting ends of the bottom rail, the remaining leg of each of said members lying normally in a horizontal plane and being disposed behind the screen between it and the window frame, whereby the L-shaped members may be shifted on their pivotal connections to engage the projecting ends of the bottom rail for release therefrom.

1,354,314. OIL-BURNER. WILLIAM C. LEIST and CHARLES WAGNER, Wauseon, Ohio. Filed July 29, 1919. Serial No. 314,159. 10 Claims. (Cl. 158—65.)



7. A burner comprising a ring-like body having arcuate jet slots in one face and a tubular mixing chamber extending diametrically across its opposite face, said chamber at one end entering the body and having its opposite end opening beneath the body adjacent its periphery, the latter being provided above the opened end with a bracket, a unitary retort structure extending across the first face of the body and secured to the bracket, said retort structure having two bores therethrough opening into a communicating chamber, a closure member for the chamber, a filler of fibrous material for the chamber compressed therein by the closure member, and a nozzle connected to the retort and discharging into the mixing chamber.

1,354,315. CULTIVATOR. ALEXUS CONRAD LINDGREN, Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Oct. 12, 1917. Serial No. 196,317. 8 Claims. (Cl. 97—35.)



1. In a wheeled cultivator, a frame, a tongue mounted thereon, arch axles hingedly connected at their upper portion to the frame, hinged mountings carried by the lower portion of each arch axle, wheels journaled thereon, arms secured to the hinged mountings, an alining bar connecting said arms, a cultivator beam attached to the lower portion of each arch axle, and means for adjusting the arch axles and beams at various positions to position the cultivator beams and wheels.

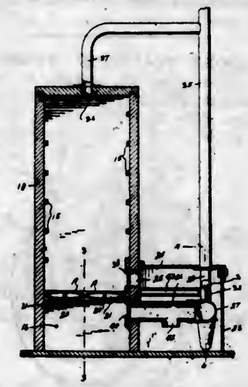
1,354,316. DIESTOCK. WILLIAM LINK, Tulsa, Okla., assignor of one-third to Otho G. Allison and one-third to Max Hurst, Kansas City, Mo. Filed Jan. 11, 1918. Serial No. 211,416. 1 Claim. (Cl. 10—126.)



A die stock having a hollow handle adapted to form an oil receptacle and having an oil outlet at its inner end and at its other end having a removable closure provided with an air inlet, a conductor connected with said outlet and arranged to discharge into a die, a valve for closing said outlet having a stem slidably mounted in said closure, a thumb button attached to the outer end of said stem, a spring bearing on said closure and against said button for closing said valve, a second valve for closing said air inlet having a stem normally disconnected with said button but adapted to be forced by the latter to the open position when the button is forced to the open position, and a spring for normally closing said second valve.

1,354,317. SMOKEHOUSE. JOHN D. LINSS, Oklahoma, Okla. Filed Dec. 24, 1919. Serial No. 347,070. 8 Claims. (Cl. 99—2.)

4. A smoke house, a fire box thereunder, dampers disposed between the fire box and the smoke house and shiftable to entirely separate the smoke house from the fire box or permit the direct passage of heat from the fire box into the smoke house, a smoke and heat separator, the separator having a duct leading into the smoke house at the lower end thereof above the fire box dampers and controlled by a damper, a pipe leading from the fire box into the separator and controlled by a damper, said pipe at its outer end having two branches, one opening into the separator and the other communicating with an upwardly extending flue, a stack into which said flue opens, a branch pipe leading from the top of the smoke house into said stack, and means for opening communication directly between the interior of the separator and said flue, said means comprising an opening in the flue, and a manually



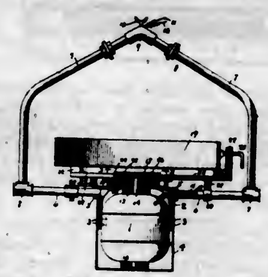
shiftable damper normally closing said opening but adapted to be shifted away from the opening to permit the passage of smoke through said opening into the flue.

1,354,318. VALVE. FREDERICK V. D. LONGACRE, Yonkers, N. Y., assignor to The Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 9, 1919. Serial No. 316,364. 8 Claims. (Cl. 251—119.)



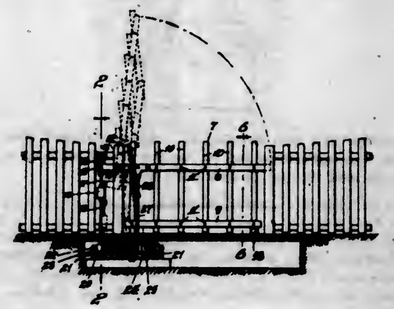
1. In a multi-ported valve for fluid compressors or pumps, a valve seat, a cover plate held in position against the valve seat, an annular valve plate having its seat engaging surface convexly contoured and extending partly within the passage in the valve seat, said valve plate having a limited movement between said seat and cover plate, and said valve seat, valve plate and cover plate being adapted to permit a continuous stream line flow of fluid entirely through the multi-ports of the valve.

1,354,319. SAND-SIFTER. ROBERT G. LOWE, Clawson, Mich. Filed June 17, 1920. Serial No. 389,602. 6 Claims. (Cl. 83—56.)



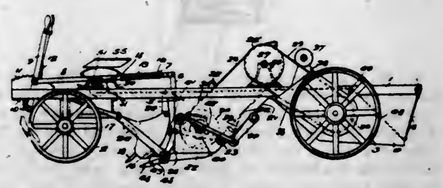
2. In combination, an electric motor embodying a vertical armature shaft, a support for the motor embodying tubular arms connected at their upper ends, an eccentric on the upper end of the shaft, a sleve mounted above the motor and movable relative to the motor support, a ring connected to said container into which the eccentric extends, arms extending from the ring to said container, and springs between the motor support and said arms to receive the weight of the container.

1,354,320. AUTOMATIC GATE. DANIEL W. MCCALLUM, St. Louis, Mo. Filed Nov. 29, 1918. Serial No. 264,575. 2 Claims. (Cl. 39—50.)



1. An automatic gate comprising a pair of horizontal bars, two vertical standards, the uppermost horizontal bar being pivotally attached to one of said vertical standards, cables swivelly attached to the uppermost horizontal bar, a roller around which said cables are wound, a shaft carrying said roller, a spring interposed between the roller and shaft, a second roller securely mounted on said shaft, a cable wound around said second roller, a lever mechanism to which said second mentioned cable is attached, and means for operating the lever mechanism to revolve both rollers.

1,354,321. STONE-DIGGING MACHINE. MERT MCQUEEN, Van Hook, N. D. Filed Jan. 9, 1919. Serial No. 270,307. 4 Claims. (Cl. 55—17.)

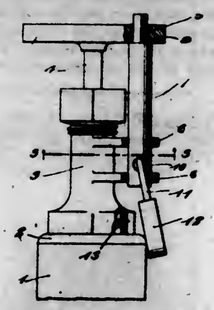


1. In an apparatus of the class described, a supporting frame, a plurality of members having digging tools and suspended from said frame, a scoop device rearwardly of the suspended members and having scraper elements, a plurality of spring pressed guard members extending rearwardly of the suspended members and coacting with the scoop device, and means for removing the gathered material from the scoop.

1,354,322. GATE-VALVE LOCK. LEONARD B. MADRIN, Houston, Tex. Filed Apr. 28, 1919. Serial No. 293,207. 2 Claims. (Cl. 70—125.)

1. The combination with a valve including a rotary stem and a guide through which the stem passes; of a hand wheel on said stem, said wheel having a plurality of spaced apertures therein, a pair of laterally directed vertically spaced apertured lugs on said guide, and a locking pin slidable through said lugs, said pin being de-

creased in diameter at one end for reception in one of said apertures, said pin having a transverse opening adjacent



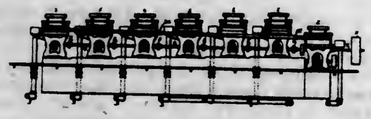
its lower end and capable of being positioned above or below the uppermost lug to receive the shackle of a padlock to lock the pin in operative position.

1,354,323. BATTERY HAND-LAMP. LORENZ MAISEL, Madison, Wis., assignor to Burgess Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed Aug. 26, 1918. Serial No. 251,389. 17 Claims. (Cl. 240—8.5.)



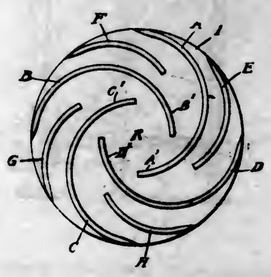
17. In a battery hand lamp, the combination, with a battery case having a lamp and a pair of conductors, at least one conductor being in the form of a narrow metal strip provided with a bent terminal projecting through the case; of a device for establishing electrical connection between said conductors to light the lamp, said device embodying a member mounted on the exterior of said case in position to be manipulated by the hand in which the lamp is grasped, and adapted to rotate into and out of engagement with said bent terminal about an axis eccentric to the axis of the case.

1,354,324. SCREEN-BOX FOR PAPER-MAKING MACHINES. FRANK P. MILLER, Downingtown, Pa. Filed Jan. 2, 1919. Serial No. 269,228. 9 Claims. (Cl. 92—32.)



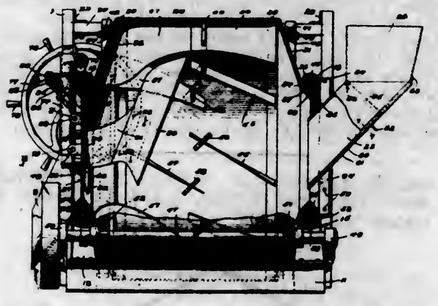
1. The combination in a paper making machine, of a series of screen boxes each having independent suction mechanism, said boxes being arranged at different levels and located side by side; a shaft extending under the several boxes and having an eccentric at each box and an eccentric rod coupling each eccentric to a suction mechanism.

1,354,325. STONE-POLISHING WHEEL. JAMES R. MITCHELL, Montpelier, Vt., assignor to Lane Manufacturing Company, Montpelier, Vt., a Corporation of Vermont. Filed July 9, 1919. Serial No. 309,676. 3 Claims. (Cl. 51—11.)



1. A polishing wheel comprising a rotatable disk having upon its working face two sets of segmental flanges, the flanges of one set being substantially the extent of a half-circle and the flanges of the other set being substantially the extent of a quarter circle and being individually interposed between the flanges of the first-named set, all flanges starting at spaced points about the periphery of the disk and curving inwardly toward the center of the disk to provide a multiplicity of independent feed channels each having its intake opening at the periphery of the disk and the longer flanges constituting a substantially completed barrier about the center of the disk adapted to prevent escape of the abrasive by centrifugal action.

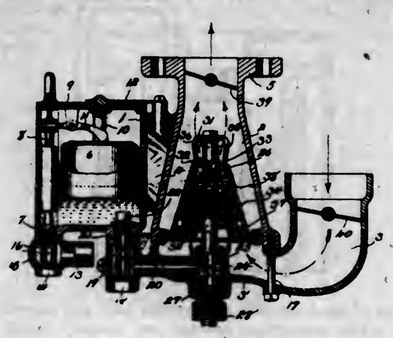
1,354,326. FERTILIZER-MIXER. JAMES WAYNE MOORE, East Point, Ga., assignor to Atlanta Utility Works, East Point, Ga., a Corporation of Georgia. Filed Oct. 23, 1919. Serial No. 332,625. 23 Claims. (Cl. 259—3.)



1. In a device of the class described the combination of a rotary mixing drum having a circular discharge outlet, of a movable non-rotatable door fitting said outlet when in closed position and a downwardly and inwardly inclined apron secured to said door on its inner lower portion to protect the bearing connection between said drum and door from falling material.

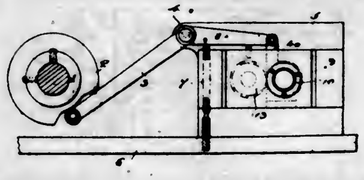
1,354,327. CARBURETER. MILLICENT MORDEN, Brooklyn, N. Y., and WILLIS C. HESS, Toledo, Ohio. Filed Oct. 6, 1917. Serial No. 195,107. 2 Claims. (Cl. 261—44.)

1. In a mixing device of the class described including a mixing chamber having an air intake, a fuel supply tube extending into said mixing chamber, a flanged ring disposed in said mixing chamber between the intake and outlet therefrom, the flange on said ring being secured to the wall of the chamber, inwardly extending converging fingers formed on the ring, a tapered sleeve formed of a coiled



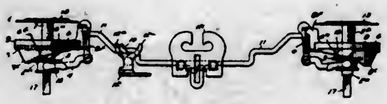
wire disposed around said fingers and having its large end secured to the ring, a second sleeve secured to the restricted end of the tapered sleeve, the end of the second sleeve being adjacent the outlet opening of said fuel supply tube, whereby the air from the intake will be reduced in volume adjacent said outlet opening.

1,354,328. LOOPER MECHANISM FOR TENSION-ENVELOP MACHINES. JENS MORTENSEN, New York, N. Y., assignor to Fred Goat Company, Brooklyn, N. Y., a Corporation of New York. Filed May 1, 1920. Serial No. 378,069. 21 Claims. (Cl. 93—61.)



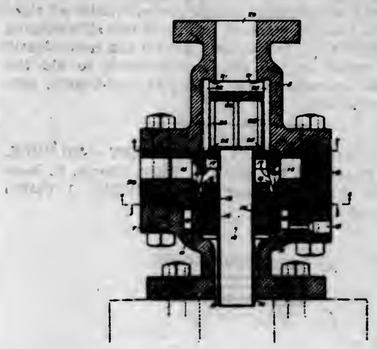
1. A looper mechanism for tension envelop machines comprising a rotatable body provided with an orifice in the peripheral wall thereof, and a movable portion supported by said body and movable axially relative to said body, to open and close said orifice, and means for periodically moving said movable portion.

1,354,329. TYPEWRITING-MACHINE. ALBERT F. MOSER, Groton, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Jan. 6, 1919. Serial No. 269,834. 14 Claims. (Cl. 197—160.)



4. In a typewriting machine, the combination of a pair of ribbon spools, means for rotatably supporting the spools, a pair of gears rotatable with the spools and shiftable relatively thereto, driving means for the gears, and ribbon controlled means for simultaneously shifting said gears in opposite directions to operatively connect first one and then the other of said gears with its driving means.

1,354,330. LIQUID-ELEVATING DEVICE. THOMAS W. MURPHY, Philadelphia, Pa. Filed Apr. 8, 1920. Serial No. 372,193. 16 Claims. (Cl. 103—3.)



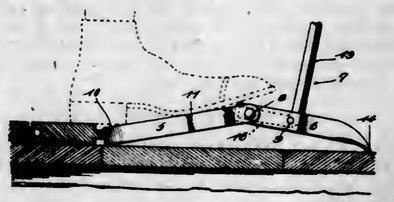
1. The combination in a liquid elevating apparatus of a source of liquid; a blow tank; a casing connected to the blow tank; a valve in said casing for controlling the delivery of compressed air to the blow tank; a conduit extending through the valve for delivering liquid from said source to said blow tank; and a delivery pipe from said tank.

1,354,331. METHOD OF FORMING DOLLS FROM TUBULAR BLANKS. HARRY NELKE, Philadelphia, Pa. Filed Feb. 7, 1920. Serial No. 356,857. 7 Claims. (Cl. 46—40.)



1. The method of forming a doll from a tubular blank, which comprises forming an opening in the side thereof, closing the open ends of said blank, stuffing the blank with a filler, and securing a face piece across said opening to close the same, substantially as described.

1,354,332. FLOOR-LAYING JACK. WILLIAM A. NEVILLE, Kewanee, Ill. Filed Apr. 24, 1919. Serial No. 292,386. 4 Claims. (Cl. 254—15.)



1. In a floor-laying jack, a floor-board pusher, and a rigid structure including a sill-engaging member having a sill-

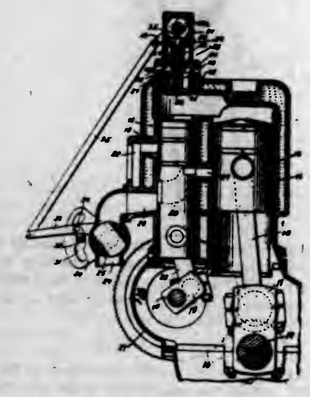
engaging element at one end and a pivot at its other end portion, said pusher being movably secured to said sill-engaging member by said pivot, said rigid structure also including a handle-bar which extends from the middle portion of the sill-engaging member substantially at right angles to the common plane of said pivot and sill-engaging element, whereby the foot of an operator can conveniently be pressed down on the pivotal connection to aid the hands of the operator in the laying of floor-boards, substantially as shown.

1,354,333. CLOSURE FOR CONDIMENT-HOLDERS. LUIS M. ORTIZ and LAURENCE E. REED, Chama, N. Mex. Filed Feb. 17, 1920. Serial No. 359,329. 1 Claim. (Cl. 65—45.)



A closure for a condiment holder comprising a cap having a plurality of perforations in the top thereof, a transversely slidable and perforated disk pivotally mounted at one side to the cap and having a handle at its diametrically opposite side movable through the cap, said disk being adapted to cover and uncover the perforations of the cap, said disk having an angularly extending lug on one side, and a bowed spring having its ends anchored in the cap and having its center notched to receive the lug of the cap and whereby said disk is yieldably held in one limit of its pivotal movement.

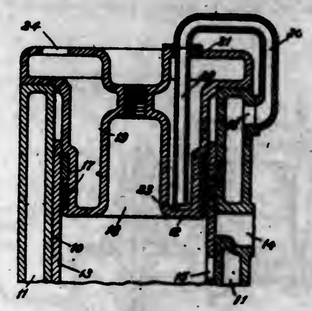
1,354,334. INTERNAL-COMBUSTION ENGINE AND VALVE MECHANISM THEREFOR. ALDEN E. OSBORN, New York, N. Y. Filed Sept. 22, 1916. Serial No. 121,531. 20 Claims. (Cl. 123—59.)



1. In an internal combustion engine, the combination with a cylinder having valve controlled inlet and exhaust ports, a piston therein and a throttle valve, of an auxiliary valve controlling an independent opening into the cylinder and means dependent upon the throttle valve under predetermined conditions, for positively controlling the opening of said auxiliary valve.

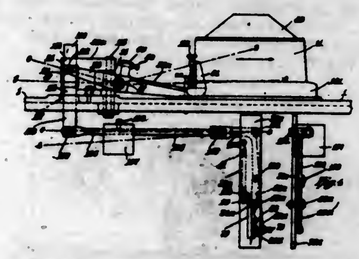
1,354,335. INVERTED-HEAD-ENGINE WATER-JACKET. ALDEN E. OSBORN, New York, N. Y. Filed Jan. 14, 1920. Serial No. 351,344. 3 Claims. (Cl. 123—173.)

3. An internal combustion engine comprising a cylinder having a water jacket and an exhaust port, a water jacketed inverted head, a sleeve valve arranged to move between said cylinder and said head and to control the exhaust port, a tube connected to admit water from the water jacket of the cylinder to the lower part of the water



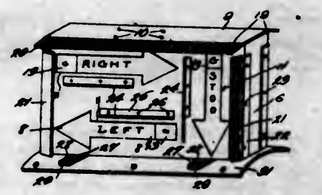
jacket of the head near the exhaust port, and providing a sole water connection between the cylinder jacket and head jacket and therefore forming part of a siphon by means of which the water may be drained from the jacket of the head into the jacket of the cylinder.

1,354,336. WIRE-DRAWING MACHINE. WILLIAM D. PIERSON, Waterbury, Conn., assignor to The Waterbury Farrel Foundry & Machine Company, a Corporation of Connecticut. Filed Mar. 13, 1919. Serial No. 282,399. 10 Claims. (Cl. 205—16.)



1. In a wire-drawing machine, the combination with the rotatable drawing block, the die-holder, means whereby the die-holder moves away from its wire-drawing position when the tension of the wire is released, and the driving means for the drawing-block, of means for braking the rotation of the block, and operating connections between the die-holder on one hand, and the driving and braking means on the other, said connections being arranged to be operated by said movement of the die-holder to disconnect the driving means from the drawing block and to apply the braking means thereto.

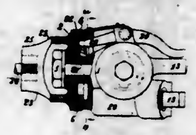
1,354,337. ELECTRIC SIGNAL APPARATUS. FRANCIS A. PUACELL, Brooklyn, N. Y. Filed May 8, 1920. Serial No. 379,957. 2 Claims. (Cl. 40—132.)



1. Signaling apparatus having a box provided with a plurality of illuminable signal means in its side walls, a

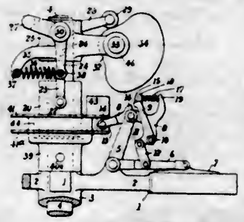
cover projecting laterally at an inclined portion to shade said means, partition means within the box to provide independent signal chambers, bolts to secure the cover in place passing through said partition means, said means consisting of arrow shaped slots, a transparent panel behind said slots, said panel at the ends of the slots opposite to the arrow heads being colored to contrast with the heads, and additional shade means for the signal means extending laterally from the side walls of the box.

1,354,338. LIFTING-JACK AND THE LIKE FOR USE ON MOTOR ROAD AND OTHER VEHICLES. FREDERICK LIONEL RAPSON, Liverpool, England. Filed June 11, 1919. Serial No. 303,410. 6 Claims. (Cl. 254—86.)



2. A lifting jack for vehicles including a supporting means adapted to be secured to a fixed part of the vehicle, a jack rotatably mounted with relation to said supporting means, a spring pressed locking lever to automatically secure the jack in either one of a plurality of positions relative to the supporting means, and means for operating said lever to release the jack for rotative movement with respect to this supporting means.

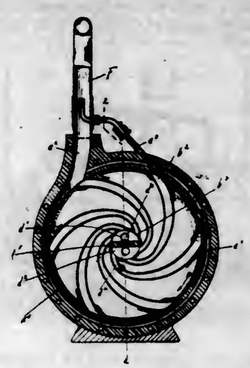
1,354,339. BAG-MACHINE. WILLIAM ROSE, Gainsborough, England, assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Filed Feb. 12, 1920. Serial No. 358,242. 6 Claims. (Cl. 93—8.)



2. In apparatus for making paper bags, a former on which the bag is made, a presser foot pivotally connected to the former and adapted to press against a bag on the former, means for operating said presser foot, and comprising a toggle driver connected to the presser foot and having elements separating when the presser foot is in operating position.

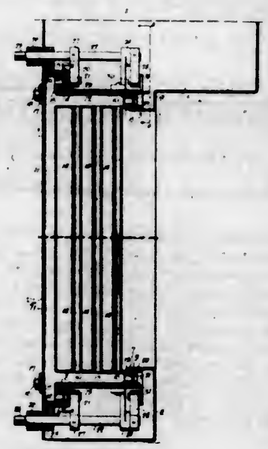
1,354,340. CENTRIFUGAL VACUUM-PUMP. VICTOR ROSENHAGEN, Bellevue, Ky. Filed Aug. 18, 1919. Serial No. 318,166. 1 Claim. (Cl. 230—14.)

In a centrifugal vacuum pump the combination of a casing, a rotor mounted in the casing, the casing having in it a discharge channel which extends throughout a portion only of the interior surface of its peripheral wall, said casing contacting with the periphery of the rotor at points between the ends of the channel, the rotor having at its center a water chamber and an air chamber, and a series of tubes extending from its center to its periphery, a water supply tube connecting with the water chamber and an air supply tube connecting with the air chamber, the inner ends of the tubes being adapted to register with the water chamber while their outer ends are closed



by contact with the casing and to register with the air chamber while their outer ends are open to the discharge channel.

1,354,341. RADIATOR. GIACINTO ROSSI, Philadelphia, Pa. Filed Sept. 9, 1919. Serial No. 322,618. 11 Claims. (Cl. 257—129.)

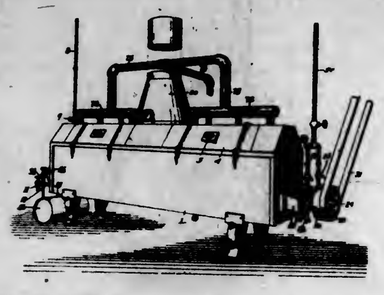


1. The combination in a radiator of two body portions having lines of openings; radiator sections removably connecting said body portions and communicating therewith through the openings; with valves for simultaneously closing the openings of the body portions at will.

1,354,342. EVAPORATOR AND PASTEURIZER. JOHN F. RUFF, Port Huron, Mich. Continuation of application Serial No. 208,853, filed Dec. 26, 1917. This application filed Jan. 16, 1919, Serial No. 271,382. Renewed July 26, 1920. Serial No. 399,159. 16 Claims. (Cl. 99—5.)

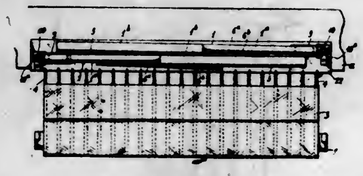
2. In combination, a vat, a plurality of rotatable heating drums arranged parallel to one another therein, and cleaning means for the drums comprising cleaner bars, one for each drum, bearing on the corresponding outer surface thereof, said cleaning means also comprising cross connections between the bars whereby the cleaning means corresponding to a given longitudinal portion of the drums may be removed as a unit.

12. The process of evaporating and pasteurizing milk and liquid milk products which consists in subjecting individual particles of the liquid to repeated momentary contacts with a hollow rotating drum containing live steam at considerable pressure in direct contact with the



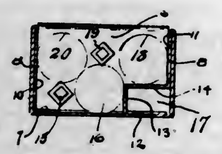
inner surface of the outer wall of the drum, repeatedly cleaning the outer surface of said wall while in contact with the liquid, and blowing air through the liquid in quantities sufficient to pervent the temperature from rising materially above that at which pasteurization takes place.

1,354,343. COLLAPSIBLE BED. LOUIS F. SCHILLING, Salem, Ohio. Filed Feb. 5, 1916. Serial No. 76,409. 20 Claims. (Cl. 5—72.)



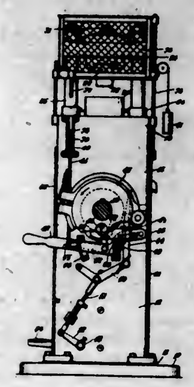
1. In a collapsible bed, a frame comprising a horizontal end bar constituting a support, side bars, each having a swiveling connection at its inner end with said support, said side bars being thereby foldable through an angle of ninety degrees whereby they may be projected in parallel relation to one another and at a right angle to said support or may be disposed to rest on said support in parallel relation to one another, and a second end bar connecting the outer ends of said side bars, and being detachable therefrom prior to the folding of said side bars, said second end bar, when assembled, being parallel to said support.

1,354,344. FOLDING PAPER CARTON. EDWARD A. SCOTT, Stratford, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Mar. 13, 1920. Serial No. 365,485. 1 Claim. (Cl. 229—34.)



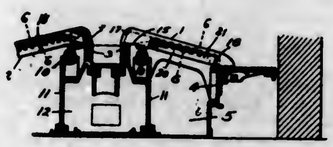
A folding one-piece paper carton-body having an internally arranged longitudinal shelf, located in one corner of the body below the median horizontal plane thereof, the ends of two of the shelf-flaps co-acting with notches in flaps formed at the ends of the bottom-member of the body, whereby the folded shelf is held in place, thus reducing the space upon the bottom of the carton-body and adapting it for the packing of articles in groups of five.

1,354,345. SAFETY DEVICE FOR POWER-OPERATED MACHINES. HENRY E. SEAVER and CHARLES L. BOWERS, Hartford, Conn., assignors to Daniel M. Wright, Hartford, Conn. Filed July 10, 1918. Serial No. 244,139. 7 Claims. (Cl. 74—46.)



1. In combination with a member to start and stop a machine, a vertically movable cage completely surrounding active members of said machine and of a height, when it is in its lowermost position, to effectually prevent inadvertent access to the danger zones of said active members, and a connection between said cage and said starting and stopping member and including a lock to positively prevent operation of said member to start the machine when the cage is in a raised position.

1,354,346. FURNACE AND GRATE-BAR THEREFOR. JOHN S. SKELLY, Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1919. Serial No. 330,952. 5 Claims. (Cl. 110—47.)

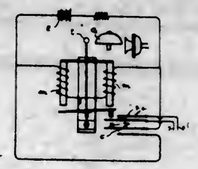


1. A tubular grate bar provided with inlet and outlet openings in its bottom and having in the upper portion of one side a plurality of elongated recesses arranged at acute angles to the longitudinal axis of the bar and on the other side adjacent to the bottom of the bar a longitudinal recess parallel to the longitudinal axis of the bar, and adapted to communicate with the elongated recesses of a similar bar when placed adjacent thereto.

1,354,347. RINGING-TONE CIRCUITS. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 1, 1916. Serial No. 134,227. 12 Claims. (Cl. 179—72.)

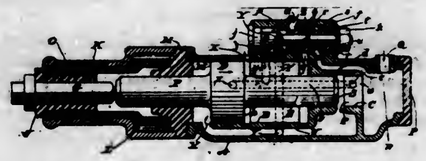
12. The method of producing a signaling tone current consisting of intermittently agitating a vibratile body

causing successive mechanical trains of forced and free vibrations, and then translating only the portion of each



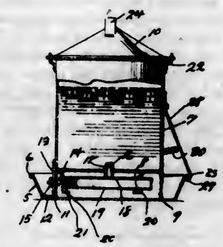
train which consists of free mechanical vibrations, into corresponding electrical pulsations.

1,354,348. FLUID-ACTUATED RECIPROCATING MOTOR. WILLIAM A. SMITH, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 24, 1920. Serial No. 360,601. 6 Claims. (Cl. 121—18.)



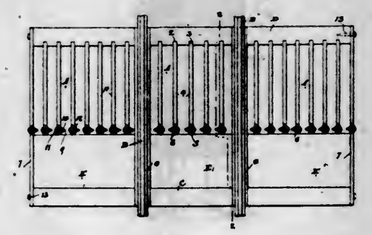
1. In a fluid actuated reciprocating motor, the combination of a cylinder, a piston therein, a main passage controlled by the piston for intermittently supplying fluid pressure in front of the piston, main exhaust means for exhausting the cylinder from both ends of the piston, a second main passage for intermittently supplying fluid pressure behind the piston, a differential valve having larger and smaller pressure areas for controlling said second main passage and for controlling auxiliary exhaust means from both ends of the cylinder, said valve being actuated in one direction by constant pressure on its smaller area, and in the other direction by intermittent pressure on its larger area, a combined auxiliary supply and exhaust passage controlled by the piston for supplying pressure to, and exhausting pressure from, the larger area of said valve, and an additional auxiliary supply and exhaust passage permitting the pressure supplied to said larger area of the valve to pass to the front end of the cylinder and also affording an auxiliary exhaust for the front end of the cylinder.

1,354,349. AUTOMATIC DRINKING-FOUNTAIN. LUCIUS H. SOLOMON, Tiffin, Ohio. Filed June 19, 1919. Serial No. 305,445. 2 Claims. (Cl. 119—80.)



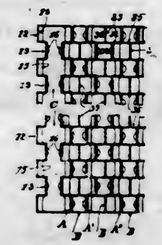
1. A drinking fountain, the combination with a pan having a beaded edge constituting a trough and a receptacle supported thereby, of a plurality of elongated angularly extending spring keepers permanently affixed to the receptacle, hooks on the keepers for engaging about the beaded edge of the trough for retaining the receptacle therein, and a hinged elongated angularly extending keeper mounted on the receptacle and engaging the trough for releasably retaining the receptacle therein, and a coil spring for normally holding the hinged keeper in a retaining position relative the receptacle and the trough.

1,354,350. CATTLE-GUARD. JOHN ALEXANDER SPARROW and WILLIAM HARLE, Sedgewick, Alberta, Canada. Filed June 10, 1920. Serial No. 388,025. 3 Claims. (Cl. 256—14.)



1. A cattle guard placed over a pit having an inclined rear wall comprising sills located at each side of said pit and extending transversely of the rails; a plurality of spaced vertical posts mounted in said pit at the foot of said sloping wall, and a plurality of stringers each supported at one end by one of said sills and at the other end by one of said posts thus leaving the said sloping wall uncovered, as set forth.

1,354,351. RADIATOR FOR MOTOR-DRIVEN VEHICLES. CHARLES F. SPERY, Chicago, Ill. Filed June 28, 1919. Serial No. 307,326. 6 Claims. (Cl. 257—130.)



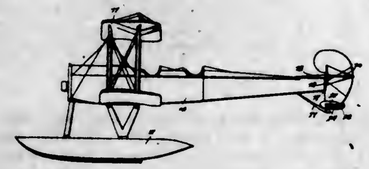
1. In a radiator for motor driven vehicles, a core, said core comprising a multiplicity of vertically disposed, spaced apart, water tubes, and a spacer between adjacent water tubes, said water tubes consisting each of a pair of plates placed face to back, there being on the longitudinal margins of each plate a multiplicity of projections each of which affords one half of a square, there being transversely between these projections shallow, flat, projections of the same width as the marginal projections, said shallow projections terminating in the marginal projections by an easy sweep, said marginal and the intermediate shallow projections alternating with flat portions or lands, there being in said lands approximately semi-cylindrical depressions of approximately the same length as the intermediate shallow projections to afford on the opposite side of the tube corresponding depressions, the sides of the marginal projections of the tube sheets being slightly converging to enable the tube sheets being nested one into the other to afford between the plates an alternately constricted and then enlarged through passage.

1,354,352. COMBINATION-GARMENT. WALTER J. STOOKEY, Vallejo, Calif. Filed Apr. 10, 1919. Serial No. 289,008. 1 Claim. (Cl. 2—54.)



A combination garment comprising a front apron having at its upper end a half vest front whose upper end is provided with a narrow lateral extension, the upper edge of said half vest front and its extension passing completely over one shoulder, and diagonally down the front of the garment to one edge of said front apron, a second vest front half co-acting with that aforesaid to form a complete vest front said second half having a narrow lateral extension on its upper end passing completely over the other shoulder and stitched to the aforesaid extension at the back of the neck opening, a vest back attached to said extensions and to said vest front halves, and terminating at the waist line, and fasteners for securing said halves together, said second half having a diagonal lower edge to overlap said diagonal upper edge of the other half.

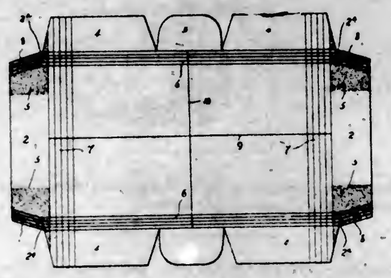
1,354,353. RUDDER FOR HYDROAEROPLANES. MAX STUPAR, Buffalo, N. Y., assignor to Abraham J. Elias, Buffalo, N. Y. Original application filed June 25, 1919, Serial No. 306,613. Divided and this application filed Dec. 10, 1919. Serial No. 343,750. 5 Claims. (Cl. 244—2.)



1. In a flying machine, an air directional rudder, a float at the lower portion of said rudder, and rigid planing fins outstanding from the sides of said float in the plane of its axis for action when on the water.

1,354,354. ADJUSTABLE BOOK-COVER. THOMAS L. TOLAND, Dallas, Tex. Filed Feb. 9, 1920. Serial No. 357,394. 1 Claim. (Cl. 281—34.)

A book cover in one piece having top and bottom flaps and wings on its sides, said wings having gummed ends, the body of the cover provided with horizontal and perpendicular lines on its sides, bottom and top extending onto the flaps and wings, and a horizontal and a perpendicular line intersecting each other at the center of the cover, said lines to assist in folding the flaps to reduced size to fit a book, the lines on the gummed surface of said



wings having an oblique relationship to the horizontal and perpendicular lines for indicating a portion to be cut off from said gummed surface.

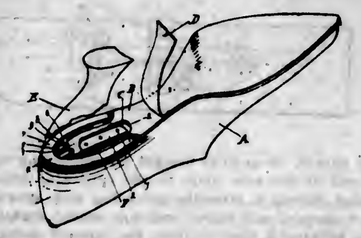
1,354,355. SIGNAL DEVICE. EDWARD E. TRYON, Hartford, Conn., assignor to The Auto Supply Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 5, 1919. Serial No. 342,621. 2 Claims. (Cl. 116—34.)



1. A device of the class described comprising a hollow body provided with means for its detachable connection with the stem of a tire tube and also provided with means for the lateral connection therewith, of a tire inflating device, the body being provided interiorly with a wall having a port, a spherical valve when closed to fit against the wall and covering the port, an elongated stem having at its inner end a rectangular head spaced from the inner wall of the body and furnished with a concavity to receive said valve, a barrel surrounding the upper end of the body and having its outer end closed and also having co-axial tubes extending oppositely from the closed end thereof, a spring surrounding the stem and bearing at one end against said head, and a partition in one of the tubes against which the other end of the spring bears, the outer of the tubes having an opening, the wall of which is slotted to produce a whistle tongue.

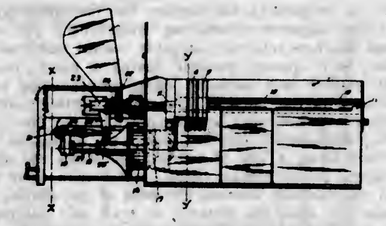
1,354,356. HEEL-FASTENING MEANS. ANTON VOMELA, St. Paul, Minn. Filed Mar. 8, 1920. Serial No. 364,127. 4 Claims. (Cl. 36—34.)

1. In heel fastening means, the combination with the heel and the body of the shoe, of a strap of metal firmly secured flatwise longitudinally on the bottom of the body of the shoe at the heel portion thereof, the rear portion of said strap being formed with a hook the jaw thereof facing forwardly the free end of said hook being bifurcated, locking means on the heel adapted to engage said hook



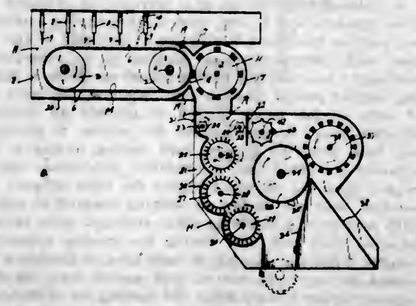
to be slid into said bifurcation to lock the heel to said body of the shoe, said hook being perforated to the rear of said bifurcation whereby the body of the shoe may be firmly secured thereto irrespective of the heel for the purpose set forth.

1,354,357. MECHANICAL STOKER. JUDSON E. WAGONER, Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 19, 1918, Serial No. 229,484. Renewed July 24, 1920. Serial No. 398,782. 5 Claims. (Cl. 110—47.)



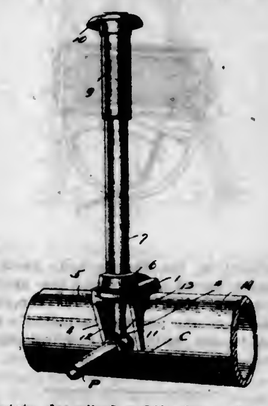
1. The combination of a rocking-bar, grate-bars actuated thereby, a piston and a cylinder therefor each having its axis parallel to said rocking bar, connecting means between said piston and rocking-bar comprising an oscillating lever, means for varying the effective length of said lever, and means for adjusting the connecting means between said rocking-bar and piston so as to change the angular position of said rocking-bar in relation to any given position of the piston.

1,354,358. COTTON-BOLL EXTRACTOR AND COTTON-CLEANING MACHINE. HORACE E. WALKER, Norman, Okla. Filed Mar. 10, 1920. Serial No. 364,610. 6 Claims. (Cl. 13—12.)



5. A machine of the class described comprising a rotary member, teeth extending outwardly from the periphery of said member, rotary beaters arranged at one side of the rotary member for forcing the material to be treated toward the rotary member, means for freeing from the teeth of the rotary member the material carried thereby, and feeding rolls positioned above the rotary beaters for forcing the material in a direction toward said beaters and the rotary member.

1,354,359. SADDLE FOR MAINS. GEORGE P. WARTCHOW, Minot, N. D. Filed Mar. 23, 1920. Serial No. 368,058. 5 Claims. (Cl. 137—73.)



1. The herein described saddle for mains comprising a casing arched on its under side to fit over the main and having a single toe at one end and spaced arms at the other end, a web connecting the upper end of said arms and with them forming a cavity, and a set screw threaded inward through said toe.

1,354,360. ROOF. CHRISTOPH KARL WEISS, Nuremberg, Germany. Filed May 28, 1919. Serial No. 300,420. 5 Claims. (Cl. 108—1.)



1. A building having a roof, sky-lights, roof-covering between said sky-lights, trusses in said sky-lights including upper and lower booms, purlins carrying said roof-covering between said sky-lights and connected to the trusses projecting above the roof-covering about at the height of the lower boom and suspension-rods whereby said purlins are suspended from said trusses substantially as shown and described.

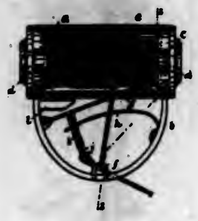
1,354,361. SPARK-PLUG. ALBERT A. WELLS, Detroit, Mich. Filed Sept. 26, 1919. Serial No. 326,495. 4 Claims. (Cl. 123—169.)



1. A spark plug, comprising an outer shell adapted to be attached to the cylinder of an internal combustion

engine, an insulator carrying the central electrode of the plug adapted to enter the outer shell with the central electrode in sparking relation with a grounded electrode, clamping means including a cam for urging the outer shell and the insulator toward one another and for maintaining said shell and insulator together, said clamping means also providing means for holding the lead wire to the plug.

1,354,362. SHUTTLE TENSION. WILLIAM S. WELLS, South Bethlehem, Pa. Filed Dec. 9, 1919. Serial No. 343,598. 8 Claims. (Cl. 139—46.)



1. In combination, the shuttle body having means to support a rotary thread package and also having a thread guide, and means, controlled by the thread, to exert braking pressure on the package including a spring member attached to the body and a spiral spring thread guiding device screwed into said member.

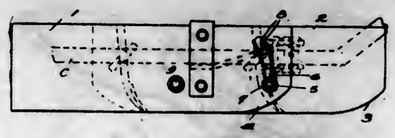
1,354,363. COMBINED RESILIENT TIRE AND MOUNTING. GILBERT N. WIDENHOFER, Butler, Pa. Filed Sept. 15, 1919. Serial No. 323,713. 5 Claims. (Cl. 152—8.)



4. In a wheel structure, a pair of bead elements, a series of wires having portions embracing each of the bead elements at spaced intervals, a set of seat-members adapted to fit on and extend across a wheel-rim, each of these seat-members having an outwardly turned end portion and an inwardly turned portion, the latter being apertured and formed with spaced shoulders, the outwardly turned end portion being formed with spaced grooves in which are seated the respective contiguous wire portions which embrace said bead elements, a second set of seat members, each having an aperture registering with that of one of the first said seat-members, and bolts extending through said apertures to secure said seat-members to one another and to a wheel-felly, each of said second seat-members being formed with grooves to receive the contiguous bead-embracing wire portions, each of said second seat-members having a portion confined between the contiguous shoulders of one of the first said seat-members.

1,354,364. CULTIVATOR ATTACHMENT. ROY W. WILLIAMS, Utica, S. D. Filed June 15, 1918. Serial No. 240,124. 1 Claim. (Cl. 97—13.)

A cultivator fender comprising two longitudinally disposed plates lapping at their meeting ends, one of the meeting ends of said plates having an arcuate transversely extending slot, a bolt carried by the other plate extending through said slot to adjustably connect said plate ends, a bolt pivotally connecting said lapping ends in rear of said slot and bolt connection, the lower edges of said meeting ends being curved or rounded longitudinally, the front end of the front plate being also similarly curved, an angular bracket for connecting the meeting end of the rear plate to the cultivator frame, said bracket having a laterally extending arm spanning the upper edges of said lapped ends and spaced slightly therefrom forming a stop to limit the upward swing of the front plate.



1,354,365. WIRE-STRIPPING PLIERS. SOLOMON E. AARON, Boston, Mass. Filed Apr. 17, 1919. Serial No. 290,842. 8 Claims. (Cl. 81—9.5.)



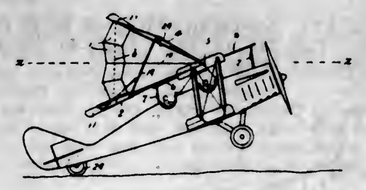
7. An instrument for slitting the insulation-covering of round insulated conductors, comprising a pair of opposed members relatively movable toward and from each other, each opposed member having a notch, provided with guiding and centering sides, corresponding to and mating with the notch of the other, a slitting tooth projecting from the apex of each notch in the direction of a line substantially bisecting them, the dimension of the notches along a line bisecting them when the opposed members are in contact being greater than their width, and the distance between the ends of the slitting teeth being less than the distance between said guiding and centering sides when said members are in contact.

1,354,366. RAILROAD-TIE CONSTRUCTION. FLORYAN ADAMCZYK, Coupon, Pa. Filed May 11, 1920. Serial No. 380,631. 1 Claim. (Cl. 238—31.)



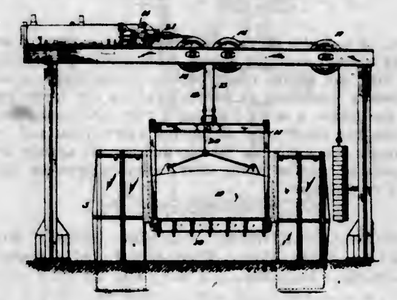
A railroad tie made up of a plurality of identical sections arranged end to end, each section having a reduced end portion forming a continuity at one side of the section, said reduced portions adapted to be arranged in overlapped relation and having alined openings, a fastening element passed through said openings, the outer end of each section being formed to provide an inwardly directed flange arranged above the section to provide a rail base receiving groove, said section having a bore adjacent its outer end, a combined reinforcing bar arranged upon the tie and bridging the joint between said sections, said bar having an opening adapted to register with said bore, a retaining plate arranged upon said bar adjacent each end, and having an opening adapted to register with the opening of said bore, a fastening bolt passed through said bore of said section into the openings of the bar in said plate and holding all of said parts fixed relatively, and said bar having its ends reduced and overlying the adjacent face of the rail as described.

1,354,367. SAFETY DEVICE FOR AIRCRAFT. GAETAN AJELLO, New York, N. Y. Filed Feb. 1, 1919, Serial No. 274,444. Renewed Mar. 17, 1920. Serial No. 366,675. 22 Claims. (Cl. 244—21.)



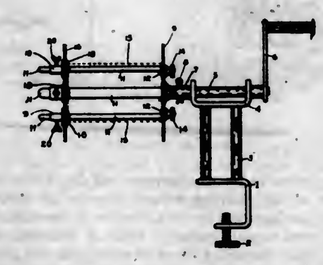
1. In an aircraft, an air resistance member, a universal joint connection between the resistance member and the aircraft, a track fixed to the aircraft concentric with said joint, and supports between the resistance member and said track including a spring roller movable along the track.

1,354,368. PIPE-BALL-ANNEALING FURNACE. EDWARD E. ALEXANDER and JOHN T. PIGGOTT, High Bridge, N. J., assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Jan. 28, 1919. Serial No. 273,555. 3 Claims. (Cl. 266—4.)



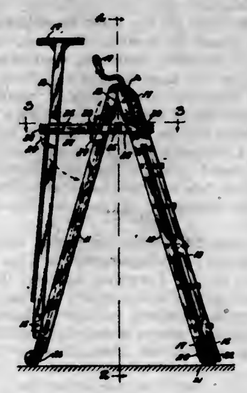
1. In an apparatus of the type recited, the combination with a heating furnace, of a dipping tank in proximity therewith, the bottom of the furnace being mounted for swinging movement to afford a direct conveyer from the furnace to the dipping tank.

1,354,369. MACHINE FOR WINDING RIBBON. LUTHER H. ANDERSON, Seattle, Wash. Filed Feb. 14, 1920. Serial No. 358,576. 5 Claims. (Cl. 242—61.)



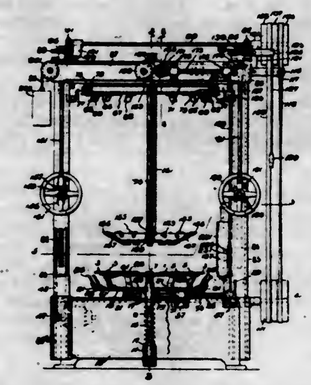
1. A machine for winding ribbon, comprising a rotatable guide plate, a plurality of winding bars connected with said plate and radially adjusted relatively thereto, an adjustable guide plate and means for securing said winding bars to the adjustable guide plate.

1,354,370. STEPLADDER. LUIGI ANECHIARICO, Asbury Park, N. J. Filed Apr. 14, 1919. Serial No. 289,979. 4 Claims. (Cl. 228—17.)



1. In a ladder the combination with a ladder section and a prop section hinged thereto, of a foldable ledge mounted on the ladder section and prop section, said ledge consisting of a series of strips extending in one direction from the ladder section and another series of strips extending in the opposite direction from the prop section, the first series of strips being hinged upon the ladder section and the second series hinged upon the prop section with the strips in one series hinged relatively to the strips in the other series, between said ladder section and said prop section.

1,354,371. METHOD OF WRAPPING TIRES AND THE LIKE AND MACHINE FOR PRACTISING THE SAME. EDWARD H. ANGIER, Framingham, Mass. Filed Nov. 25, 1916. Serial No. 133,467. 34 Claims. (Cl. 93—2.)



1. In a machine of the class described a pair of relatively movable concaved members adapted to fit over the ends of an article and hold wrapping material thereabout, a strip supply and means for effecting relative movement of revolution between said member about an axis connecting the ends of said article and said supply whereby a connecting strip may be drawn around the article between the ends to secure such wrapping material.

2. In a machine of the class described a pair of relatively movable concaved members adapted to fit over the ends of an article and hold wrapping material thereabout, a strip supply and means providing for bodily rotation of

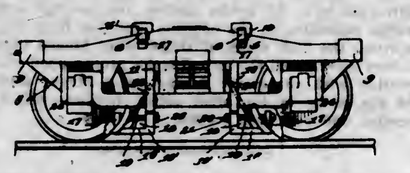
said members about an axis extending in the direction of compression whereby a connecting strip may be drawn around the article between the ends to secure such wrapping material.

3. In a machine of the class described an article support having means for rotating the same, an opposed plunger having a rotatably-mounted, work-engaging face and means to move the same toward and from the support in the general direction of the axis of rotation.

4. In a machine of the class described a cup-like article receiver having means for rotating the same, a displaceable support normally positioned adjacent the top of the cup, an opposed plunger having a rotatably-mounted, work-engaging face and means to move the same toward and from the support in the general direction of the axis of rotation.

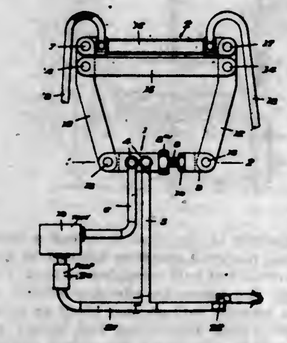
5. In a wrapping machine an article support having upturned marginal portions adapted to wipe along the sides of an article to fold wrapping material thereover, an opposed presser acting substantially in line with the bases of said portions whereby to effect smooth folding, and pressure-retaining means acting on the article inwardly of the margins to permit withdrawal of the presser.

1,354,372. BRAKE-BEAM GUARD. MARSHALL ARMSTRONG, Hagersville, Ontario, Canada. Filed June 2, 1917. Serial No. 172,456. 3 Claims. (Cl. 188—210.)



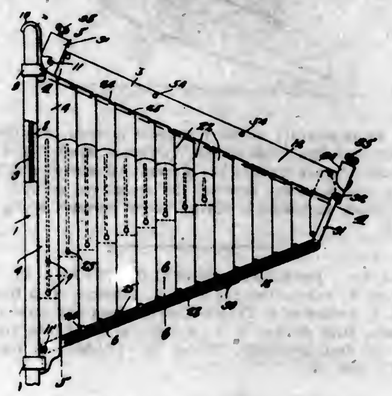
1. A brake beam guard comprising a plurality of drop cross frames, spaced perpendicular supporting-bars secured to each of the frames and provided with integral offset lower ends, a brake beam slidably supported in the lower offset end of each of the supporting bars and brake shoes associated with the opposite end of said brake beam.

1,354,373. AUTOMATIC FLUID-CONTROLLER. HARTLEY O. BAKER, Pueblo, Colo., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed Jan. 3, 1919. Serial No. 269,433. 4 Claims. (Cl. 236—33.)



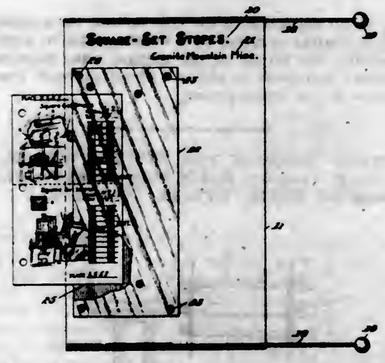
2. An automatic controller comprising a thermostat, a stay, a pair of levers pivotally connected with opposite ends of the thermostat and with said stay to be swung toward and away from one another by the change in length of the thermostat with respect to the stay, and a controlling valve having a casing and valve member, the casing being connected to one lever to move therewith and the valve being connected to the other lever to move therewith.

1,354,374. STORM-SHIELD. JOHN BAUER, Detroit, Mich. Filed Jan. 16, 1920. Serial No. 351,764. 7 Claims. (Cl. 20—40.5.)



1. In a device of the class described, a frame provided with support-engaging means, a top pivotally supported at its rear end on the upper portion of the frame, a bottom pivotally supported at its rear end on the lower portion of the frame, a latch forming a releasable connection between the outer ends of the top and bottom and constituting a brace holding the top and bottom against pivotal movement and movable sides extended between the top and the bottom.

1,354,375. FACTORING DEVICE. NORMAN BLYTHE BRALY, Butte, Mont. Filed July 7, 1919. Serial No. 308,969. 3 Claims. (Cl. 235—89.)

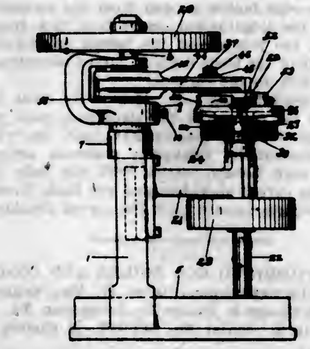


1. In apparatus for the purpose set forth the combination with a card having defined spaces for respectively receiving the records of predetermined operations, of a factoring device comprising a body, a transparent sheet over the body having factors thereon for the respective records to be entered on the card, and means interposed between the body and transparent sheet for spacing the two, said spacing means constituting a stop for positioning a card placed beneath the transparent sheet with the different spaces of such card associated with the proper factors therefor on the transparent sheet.

1,354,376. METHOD AND PROCESS OF MAKING LANOLIN. WILLIAM C. BROADGATE, New Haven, Conn., assignor to Frank W. Harmon, New Haven, Conn. Filed Mar. 26, 1919. Serial No. 285,301. 3 Claims. (Cl. 87—26.)

1. A method or process of making lanolin from wool grease, wherein the wool grease is heated to a point that will produce a thin even mixture and adding thereto a quantity of alkali metal peroxid, as a bleaching agent, after which the whole mass is agitated to permit the bleaching agent to mix evenly throughout, allowing the mass to stand until said bleaching agent has entirely bleached the same and then by centrifugal means separating the lanolin from the remainder of the mass.

1,354,377. STAMPING-PRESS. ZENAS P. CANDEE, Waterbury, Conn., assignor to The Waterbury-Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 1, 1919. Serial No. 294,124. 28 Claims. (Cl. 74—14.)



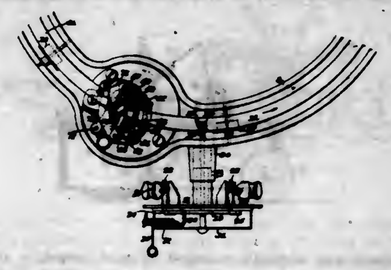
2. In mechanism of the character described, the combination with the screw; of a continuously rotating element; a make and break device interposed between said screw and rotating element; and a connection between said screw and make and break device, said connection in part actuating said make and break device according to the direction of rotation and relative speed of said screw.

1,354,378. ADJUSTABLE CLAMP. ROBERT H. CARPENTER, Chicago, Ill. Filed Nov. 24, 1919. Serial No. 340,310. 1 Claim. (Cl. 144—209.)



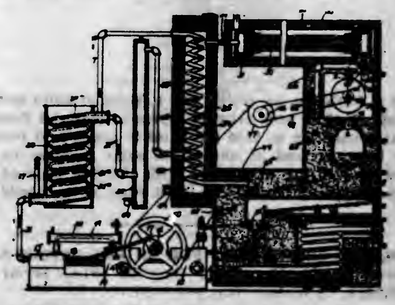
A clamp of the character described comprising a plurality of beams arranged end to end, each beam having notches in its opposed longitudinal edges, with the notches in one edge being staggered with relation to the notches in the other edge, a substantially U-shaped member forming a connector for the adjacent ends of said beams, spaced pairs of pins carried by said member, one pair of said pins being provided for each beam and diagonally disposed to be received within the adjacent notches in the opposed edges of said beam, said beams being reversible, opposed jaws mounted upon said beams for movement toward and away from each other, and an adjusting screw carried by one of said jaws.

1,354,379. STOP-MOTION. FRANK CRAWFORD, Sr., New Brunswick, N. J., assignor to The Crawford Manufacturing Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Jan. 22, 1919. Serial No. 272,536. 12 Claims. (Cl. 66—7.)



1. The combination in stop motions for knitting machines, of a casing; a ring mounted in the casing; means for supporting the ring; trip mechanism connected to the mechanism for stopping the machine; a series of spindles, each spindle engaging the ring; and means supported by a thread so arranged that when a thread breaks the thread-supporting means will actuate the ring and the trip mechanism through a spindle.

1,354,380. APPARATUS FOR PRODUCING LIQUID OXYGEN. CHARLES F. CROMMETT and ORRIN J. CROMMETT, Chelsea, Mass., assignors, by mesne assignments, to Godfrey L. Cabot, Cambridge, Mass. Filed Jan. 7, 1914, Serial No. 810,795. Renewed July 1, 1916. Serial No. 107,102. 7 Claims. (Cl. 62—123.)

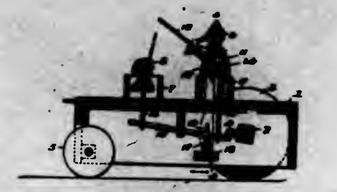


1. An apparatus of the character stated comprising an air conduit inclosing a separator casing, a cooling conduit having a portion extending through the separator casing and a portion inclosing the air conduit outside said casing, means for forcing air at high pressure through the air conduit, and means for delivering nitrogenous gas at a temperature below freezing to the cooling conduit, whereby the temperature of the high pressure air is preliminarily reduced, and moisture is frozen out of it in the separator casing.

1,354,381. TOY. ALBERT DAYON, Dollard, Saskatchewan, Canada. Filed Dec. 19, 1919. Serial No. 345,965. 2 Claims. (Cl. 46—45.)

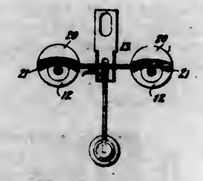
1. A toy comprising a casing-like body open at its under side, a transverse shaft or axle journaled in the side walls of the body and provided with ground wheels and a tappet, hollow projections on the upper side of the body, a fixed figure in one of said projections, a vertically movable figure in the other projection, a rock-shaft journaled in the fixed figure and having a forwardly extending rod and also having a rearwardly extending crank, a rod connected to the vertically movable figure and extending downwardly through the top wall of the body into the interior thereof, a rod connected to the crank of the rock-

shaft and extending downwardly through the top wall of the body and into the interior thereof, a vertically swinging lever fulcrumed at an intermediate point of its length in the body and having its arms connected to said rods and also having one of its arms arranged to be engaged and



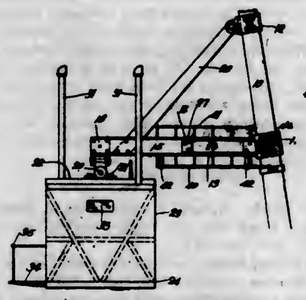
depressed and suddenly released by said tappet, a cross-bar in the body below said arm, a pin carried by said cross-bar and extending upwardly and loosely through said arm, and a spring surrounding the pin and interposed between said cross-bar and the under side of said arm.

1,354,382. DOLL'S EYE. OTTO E. DENIVELLE, Mount Vernon, N. Y. Filed Feb. 11, 1919. Serial No. 276,250. 1 Claim. (Cl. 46—40.)



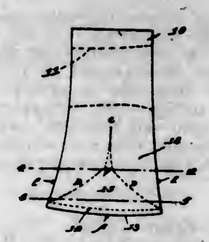
In a doll's eye, an eyelid, and a fringe of hairs secured at one of their ends between layers of material forming a flat foundation to hold the hairs in place, said foundation being secured at one of its outer surfaces to the inner face of the said eyelid with the free ends of the hairs projecting beyond the lower edge of the eyelid.

1,354,383. CROW'S-NEST FOR SHIPS. ARTHUR E. DE SAVE, Mobile, Ala. Filed Mar. 22, 1918. Serial No. 223,961. 1 Claim. (Cl. 114—191.)



In combination with a ship having a mast, a universal joint having two members, a block secured to the mast, two beams having one set of ends disposed at the sides of and secured to the block and their other set of ends disposed at the sides of a member of the universal joint and secured thereto, and a crow's-nest secured to the other member of the universal joint.

1,354,384. AX. CHESTER M. DOOLITTLE, Kingston, N. Y. Filed Dec. 15, 1919. Serial No. 344,846. 2 Claims. (Cl. 145—2.)



1. An ax head having its blade tapered at one edge whereby to define a cutting edge and having its faces adjacent the edge hollow ground from the corners to a point along the longitudinal center line back from the cutting edge, the juncture of the hollow ground portion with the body of the blade defining curved shoulders leading substantially to the corners.

2. An ax head having both sides of its blade hollow ground from the corners of the blade to a point spaced from the edge along the longitudinal center line whereby to define substantially triangular concaved areas, the juncture of each hollow portion with the body of the blade defining curved shoulders and the blade having its opposite side edges tapered from the curved shoulders.

1,354,385. COMBINED EGG BOILER AND POACHER. WILLIAM EICHELBERGER, Pierce, W. Va., assignor of one-half to George B. Somerville, Johnstown, Pa. Filed July 21, 1919. Serial No. 312,347. 2 Claims. (Cl. 53—1.)

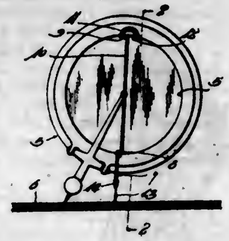


1. A device of the character described including in combination with a support having openings therethrough, of a plurality of egg holders for removable disposition through the openings, each of the holders including a cylindrical body having a tapered and closed bottom and having the upper portion enlarged to form a supporting shoulder and a neck, a closure cap on the neck, and a cutter carried by and depending from the cap.

1,354,386. RECORD-CLEANER FOR SOUND-REPRODUCING MACHINES. GUSTAV AUGUST FANDREY, Cedar Rapids, Iowa. Filed Oct. 20, 1919. Serial No. 331,805. 3 Claims. (Cl. 274—1.)

1. In a record cleaner attachable to a reproducer of a sound reproducing machine, a brush carrying attachment, a pair of reproducer-engaging elements, and a spring connecting said reproducer-engaging elements and adapted

to press them away from one another to a distance slightly greater than the internal diameter of the diaphragm-



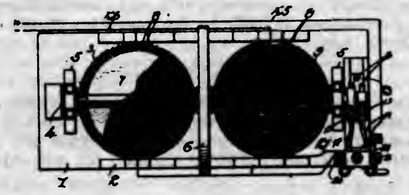
holding flange of the reproducer, whereby the said reproducer-engaging elements may have spring-pressed engagement with the internal surface of said flange.

1,354,387. FASTENER FOR TIPS OF BILLIARD-CUES. WILLIAM FEHLHABER and CHARLES L. SMITH, Highlands, N. J. Filed Nov. 3, 1919. Serial No. 335,561. 8 Claims. (Cl. 46—9.)



1. In a billiard cue tip fastener, the combination of a ferrule projecting from the cue, a tip having a bearing against said ferrule and provided with a lug, a block adapted to enter said ferrule and having formed therein a groove for the reception of said lug, said ferrule surrounding said block and lug whereby lateral movement of the tip is prevented.

1,354,388. ELECTRIC MOTOR. FRANCIS C. C. FOX, Sawtelle, Calif. Filed June 16, 1917. Serial No. 175,178. 1 Claim. (Cl. 172—36.)



An electric motor comprising a plurality of alined spherical field windings the convolutions of which are coaxial, a shaft extending through all of the windings parallel to the convolutions thereof, armatures mounted upon the shaft each within a winding at angles to each other, and means for energizing the windings alternately.

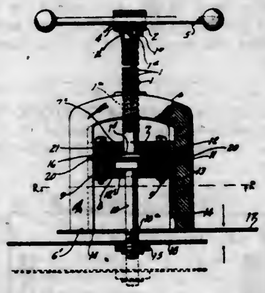
1,354,389. ELECTROMAGNETIC SOUNDING DEVICE. HUGO GERNSBACK, New York, N. Y. Filed Dec. 11, 1917. Serial No. 206,636. 1 Claim. (Cl. 178—115.)

A device for producing sounds in imitation of wireless telegraphic signals, comprising an electro-magnet, a paramagnetic member in the field force between the poles of the electro-magnet and capable of absorbing a portion only of the magnetic lines of force of the field of the magnet and spaced at one end from a pole of the magnet, a diaphragm in the field of the electro-magnet across the



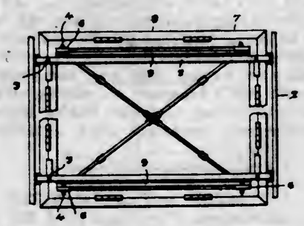
spacing between the last named pole and the paramagnetic member and a make and break mechanism in circuit with the electro-magnet and subject to lines of force exterior to the paramagnetic member.

1,354,390. APPARATUS FOR DRAWING TOGETHER SHIP-PLATES. SAMUEL R. GILMORE, Seattle, Wash. Filed Jan. 17, 1919. Serial No. 271,731. 5 Claims. (Cl. 20—84.)



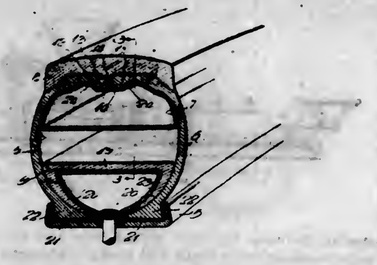
4. An apparatus for drawing spaced objects together, comprising an abutment frame having spaced clamping or abutment surfaces, a member slidably mounted thereon, a bolt connected to the slidable member and adapted to be connected to one of the objects and actuated to draw it toward another resting against the spaced clamping surfaces of the abutment frame, and means whereby force may be applied to the member slidably mounted in said abutment frame to cause it to slide thereon.

1,354,391. GLASS-DRAWING MACHINE. FELIX L. GOFFAUX, Arnold, Pa. Filed Apr. 12, 1919. Serial No. 289,634. 3 Claims. (Cl. 49—17.1.)



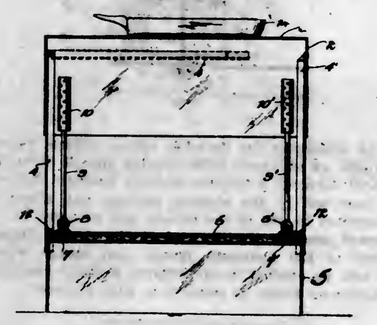
1. A device of the class described comprising an elevator, a bait of rectangular form carried by said elevator, a vertically movable supporting member and rollers carried by said member for engaging the glass tube being formed.

1,354,392. RESILIENT TIRE. MORGAN A. GREENE, Rupert, Idaho. Filed July 14, 1919. Serial No. 310,577. 4 Claims. (Cl. 152—8.)



2. In a tire, a casing comprising two primarily separate annular sections each formed with a rim-engaging portion and a tread portion, each tread portion having an annulus extending radially inward therefrom, each annulus having inwardly projecting laterally extending ridges, a filler member formed with an annular groove and with laterally extending grooves, the annulus of each of said sections being fitted in the annular groove of said filler member while said ridges are seated in said lateral grooves, and a tread band co-acting with said filler member to prevent displacement of said sections relative to one another.

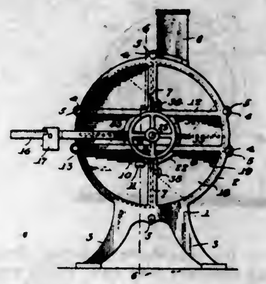
1,354,393. FOLDING GASOLENE-STOVE WITH UTENSILS. CHARLES W. GROOT, Rochester, N. Y. Filed Nov. 19, 1919. Serial No. 339,224. 1 Claim. (Cl. 126—38.)



A cooking kit comprising in combination a case, a collapsible stove adapted to be inclosed in said case, comprising two telescoping parts having tops and sides, the larger of said parts having a foraminous top and provided with legs pivoted within and near the top, the smaller of said parts having a fuel container formed with its top and a plurality of burners pivotally connected to said fuel container on its top, said part being adapted to form with said case a container for cooking utensils and dishes and said folding legs and folding burners contained between said telescoped parts, substantially as specified.

1,354,394. AUTOMATIC ROTARY WEIGHING-SCALE. ROBERT L. HENDERSON, West, Tex. Filed Feb. 10, 1919. Serial No. 276,073. 3 Claims. (Cl. 249—19.)

1. In a revoluble automatic scale, a support, a balancing frame provided with weighing means, a revoluble element mounted on the balancing frame and having material receiving compartments, radially arranged stops movable revolubly and vertically with the revoluble member and fixed stops arranged one in the path of the revoluble stops when the revoluble member is raised by the balancing



frame and the other in the path of the revoluble stops when the revoluble member is lowered by the weight of its contents.

1,354,395. COOK-BOOK AND THE LIKE. DORA L. HERRMANN and ARTHUR A. JOHNSON, Washington, D. C. Filed June 19, 1920. Serial No. 390,233. 11 Claims. (Cl. 283—1.)



1. A recipe sheet for cook-books and the like having thereon means comprising pictorial illustrations to indicate the ingredients entering into the product covered by the recipe and also having thereon means comprising pictorial illustrations, associated with said pictorial ingredient illustrations, to indicate the quantities of the ingredients to be used.

1,354,396. FASTENING DEVICE. HARRY EDUARD HOENIG, East Liverpool, Ohio, assignor of one-half to Josiat T. Smith, East Liverpool, Ohio. Filed Oct. 20, 1915. Serial No. 56,984. 8 Claims. (Cl. 173—314.)



1. A device of the character described comprising a member with a passage; a member for attachment to a support and having a fixed head, the body of said attachment member extending through said passage, said fixed head positively preventing accidental withdrawal of the first-mentioned member from one end of said attachment

member; and means to positively limit, at a predetermined point, movement of the first-mentioned member toward the tip of said attachment member.

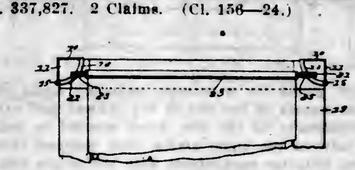
2. In combination in an insulator, base and cap portions having perforations extending therethrough, and a metal fastening member comprising a shank extending through the perforations and provided at the end carrying the cap with an integral head which will not pass through the perforations in the cap provided at the other end with a point, the said shank being provided with a struck-up portion positioned so as to engage the base and prevent the withdrawal of the fastening member therefrom.

3. An insulator comprising cap and base portions formed with perforations, and a nail extending through said perforations, and having a head at one extremity and means adjacent the other extremity to positively retain the cap and base on the nail and permit a substantial movement of the two along the nail.

4. An insulator comprising cap and base portions formed with perforations, and a nail extending through said perforations and having a head at one extremity and means adjacent the other extremity to positively retain the cap and base on the nail and permit a substantial movement of the two along the nail, the said means offering practically no resistance to the entrance of the nail into a support.

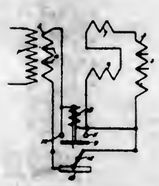
5. The combination with a holding element, of a fastener passing loosely through the same and formed with a terminal point penetrable into a support, the fastener having spaced positive stops permanently assembling it and the holding element and at the same time permitting a substantial movement of the holding element longitudinally of the fastener.

1,354,397. WINDOW-SHADE BRACKET. FRANK G. HOGUE, Birmingham, Ala. Filed Nov. 13, 1919. Serial No. 337,827. 2 Claims. (Cl. 156—24.)



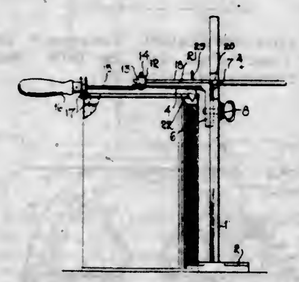
2. A window shade bracket having angularly disposed arms or members for contact respectively with the top and side edges of a window casing and a connecting arcuate or segmental member extending between the extremities of said angularly disposed arms or members, a bolt carried by said arcuate or segmental member at an intermediate point thereof, a roller bearing member having a longitudinal slot engaged with said bolt, and a thumb nut engaged with the bolt for securing said bearing member in adjusted position with relation to the arcuate or segmental member.

1,354,398. WELDING SYSTEM. CLAUDE J. HOLSLAG, South Orange, N. J. Filed Dec. 13, 1919. Serial No. 344,647. 18 Claims. (Cl. 219—15.)



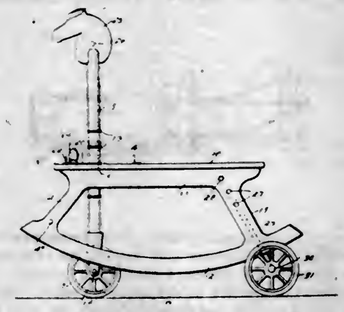
1. In an arc welding system including a movable electrode and utilizing a source of current having a relatively high open circuit voltage, means for reducing the open circuit voltage normally applied to the movable electrode, consisting of a switch having an electromagnetic winding and having contacts disposed in the welding circuit but normally holding the said circuit open at a point such that only a portion in value of the open circuit voltage is on the movable electrode and means for energizing said winding to operate said switch whereby the arc may be established at the electrodes.

1,354,399. CAN-OPENER. JOHN D. HOUCK, Chicago, Ill. Filed Oct. 15, 1919. Serial No. 330,746. 1 Claim. (Cl. 30—3.)



A can opener comprising the combination of a longitudinally slotted and longitudinally grooved standard, a bracket having an angled extension provided with a longitudinally extending rib, slidably engaging said groove in the standard, means for holding said bracket at any point in adjustment, longitudinally of said standard, the upper surface of the bracket having marginal longitudinally extending ribs, a lever positioned between said ribs, and having a longitudinally extending slot, registering with the slot of said bracket, a spur carrying member, means for moving the spur carrying member longitudinally of said bracket, comprising a screw carried by said spur member, and passing through said registering slots and carrying an integral thumb piece, and cutter carrying means pivotally secured to the end of said bracket.

1,354,400. TOY ROCKER-CARRIAGE. FRANK HUMPHREVILLE, Atlantic City, N. J. Filed Nov. 12, 1919. Serial No. 337,432. 4 Claims. (Cl. 208—165.)



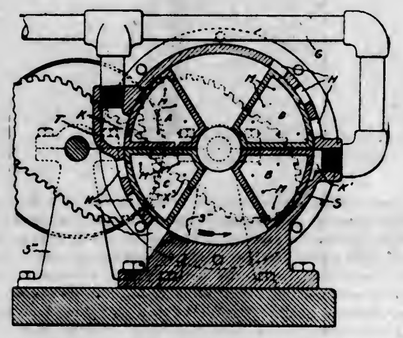
1. A toy rocker-carriage comprising a seat, means associated with said seat adapted to permit said seat to be rocked, means associated with said seat adapted to permit said carriage to be propelled along the ground, and a steering post journaled in said carriage for steering said

carriage as it is propelled along the ground, said steering post being provided with means for adjusting said post in a plurality of vertical positions relative to said seat.

1,354,401. NITRO-CELLULOSE FILM OF LOW INFLAMMABILITY. JOHN G. JARVIS, Stamford, N. Y. Filed Mar. 13, 1919. Serial No. 282,490. 1 Claim. (Cl. 106—37.)

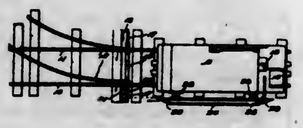
A composition for making pyroxylin sheets having the characteristic of low inflammability, consisting of nitro-cellulose and acetyl-cellulose, to which solution is added an acetone collodion and chloral hydrate with cinchonin.

1,354,402. AIR-COMPRESSOR. CHARLES F. JOHNSON, Hartford, Conn. Filed July 29, 1919. Serial No. 313,964. 2 Claims. (Cl. 230—30.)



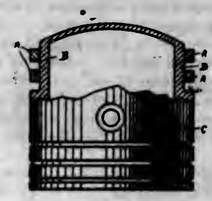
1. A device of the class described comprising a cylinder with closed ends having two sets of ingress and exhaust ports 180 degrees apart, rotary pistons within the cylinder, fitting into each other and having a common axis of rotation, and means for causing the pistons to move with variable velocities and to approach and recede from each other twice in each rotation.

1,354,403. AUTOMATIC FLYING-SWITCH MECHANISM. THOMAS J. JONES, Herrin, Ill. Filed Dec. 15, 1919. Serial No. 345,079. 1 Claim. (Cl. 246—341.)



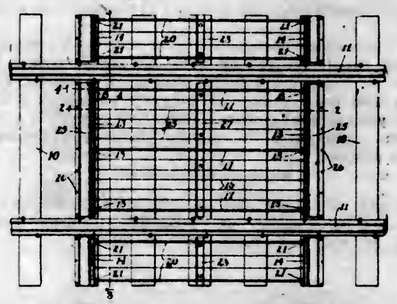
A switch including pivoted track members, a bridle connecting said members and having its extremities offset in opposite directions, a stationary bracket, a spring connecting the bracket to the adjacent offset extremity of the bridle, a switch operating member, an arm pivotally connected with the track member and slidable through an opening in the adjacent offset extremity of the bridle, said arm having an enlarged end portion, a spring encircling said arm and arranged between the enlarged end portion and the adjacent extremity of the bridle, in combination with car carrying means adapted to engage the switch operating member as and for the purpose specified.

1,354,404. CONSTRUCTION OF PACKING FOR PISTON-RINGS. THOMAS DANIEL KELLY, Hove, England. Filed Oct. 4, 1918. Serial No. 256,833. 1 Claim. (Cl. 286—12.)



A metallic packing ring for relatively movable members, comprising a split ring screw-threaded to one of said members and having a bearing surface with the other of said members.

1,354,405. CATTLE-GUARD. CHARLES KING, Mount Sterling, Ohio. Filed Dec. 28, 1918. Serial No. 268,634. 1 Claim. (Cl. 256—14.)



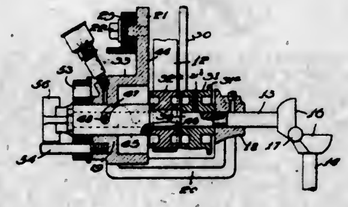
A cattle guard for a railway including angle plates secured to certain of the ties of the railway and extending longitudinally of the ties, wires secured to and extending between the angle plates, rods disposed through the plates, nuts for engagement with the plates and disposed on the ends of the rods to regulate the tension of the wires, and inclined protecting plates secured to the angle members and to the said certain ties.

1,354,406. BELT-SHIFTER. FRANK G. KLECKLER, Bath, N. Y. Filed Nov. 14, 1919. Serial No. 337,964. 3 Claims. (Cl. 64—4.)



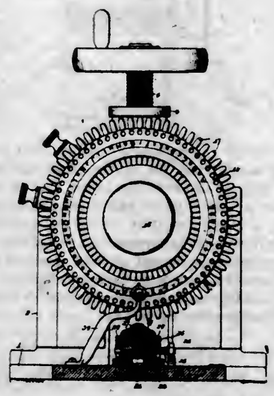
1. The combination with a pair of cone-pulleys, of a belt connecting said pulleys, a belt-shifting lever for each of said pulleys, a manually-operated lever for actuating said belt-shifting levers, a supplementary belt-shifting member pivoted on each of said main shifting levers and having gear-teeth near its pivot, and a weighted arm pivoted on each main shifting lever and having gear-teeth adapted to mesh with the teeth of said supplementary member to actuate said member and shift the belt to a higher step after the actuating lever has shifted the belt to a lower step on the other pulley.

1,354,407. BELT TRANSMISSION. HENRY KOCOUREK, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a Corporation of Illinois. Filed May 5, 1919. Serial No. 294,828. 10 Claims. (Cl. 64—4.)



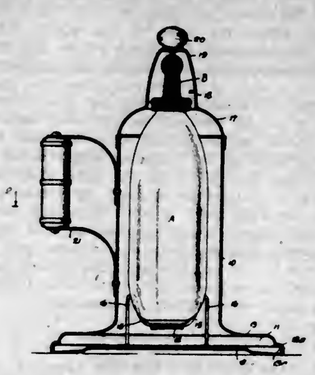
1. The combination of a driven shaft with a tight pulley and a loose pulley thereon, supports in which the shaft is mounted spaced apart by the combined width of said pulleys plus the width of one of them, a belt and guiding means arranged to confine the travel of said belt to the middle portion of the space between said supports, and means for axially shifting the pulleys to bring one or the other of them into said middle portions for engaging the belt.

1,354,408. STAMPING-MACHINE. HENRY LASKO, New York, N. Y. Filed Aug. 8, 1919. Serial No. 316,167. 7 Claims. (Cl. 101—21.)



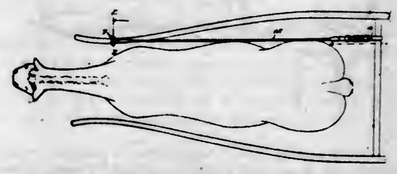
1. A stamping machine, including a base, a pair of standards upon such base, dies associated with such standards and movable with respect thereto, means for heating such dies, a carriage adapted to receive the device upon which the imprint is to be made, such carriage comprising side walls, a base between such side walls, and means associated with such carriage for retaining the device upon which an imprint is to be made upon such base.

1,354,409. BOTTLE WARMER AND STERILIZER. WILLIAM EARL LAWSON, Rahway, and WALTER RULON SMITH, Westfield, N. J. Filed Sept. 5, 1919. Serial No. 321,988. 6 Claims. (Cl. 126—261.)



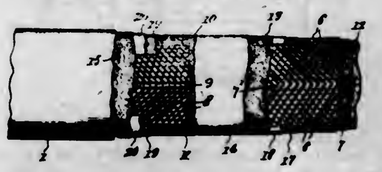
1. A bottle warmer including a tubular body and a broadened water holding bottom portion, said bottom portion consisting of a separate bottom plate and an integral outwardly directed annular flange on the lower end of said body and spaced from said plate, said bottom plate having an upwardly directed edge portion and said flange having a depending edge portion extending to the bottom plate for sustaining said flange spaced from said plate while affording rigid support for said flange, said edge portion of the bottom plate being turned over said depending edge portion.

1,354,410. GAITING-STRAP. MAURICE PATRICK MCCARTHY, Hartford, Conn. Filed Dec. 11, 1919. Serial No. 344,212. 2 Claims. (Cl. 54—2.)



1. A gaiting strap to restrain a horse undergoing training from side swinging in the shafts of a training sulky, said gaiting strap comprising a flexible member, a clamp fixed to one end of the flexible member, a loop made on the other end of the flexible member, a roller yoke confined in the loop, and an attachment loop fastened to the roller yoke.

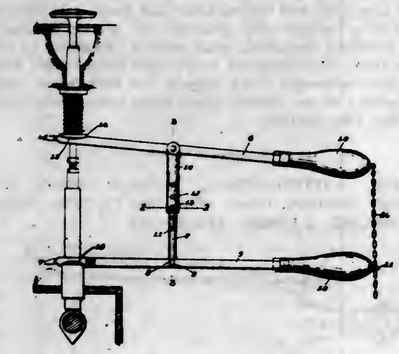
1,354,411. AUTOMOBILE-TIRE. EUGENE Y. MALONE, Mobile, Ala. Filed Jan. 5, 1920. Serial No. 349,417. 1 Claim. (Cl. 152—18.)



A tire of the character described including an inner portion having beads, a backing secured over the inner portion, an armor sheet on said backing including nu-

merous small metal plates of substantially rectangular form having rounded edges, secured to the backing in overlapped relation, the plates being smaller at the circumferential edges of the sheet and increasing in size toward the center, the enlarged center plates being made to overlap the plates of adjacent rows on both sides thereof, the transverse rows of the plates being arranged in two diagonal directions across the tire and meeting at substantially right angles at the central enlarged plates, a layer of canvas vulcanized over the inner sheet, a layer of vulcanized rubber placed over said canvas layer, a second backing secured over said rubber layer, an outer metal armor sheet secured to said backing and made up of numerous small metal plates, said sheet being narrower than the inner sheet and the plates being overlapped in opposite directions as compared with the first sheet, a layer of canvas vulcanized over the outer sheet, a rubber tread secured over said last mentioned canvas layer, and canvas and rubber strips secured to the backings and overlapping the edges of the sheets, the edges of the sheets being trimmed off in straight lines, substantially as described.

1,354,412. VALVE-SPRING LIFTER. JOHN B. MEILER, New York, N. Y., assignor to Richard A. Percival, New York, N. Y. Filed June 14, 1919. Serial No. 304,227. 3 Claims. (Cl. 29—87.1.)



1. A valve spring lifter comprising a pair of levers, a post rotatably supported from one of said levers, a socket member slidable over said post and supporting the other lever for rocking movement, the said post serving to permit said other lever to be rotated in a horizontal direction, and means for holding the socket member fixed to the post.

1,354,413. FOLDED PAPER-BOARD FILLER FOR BOXES. SEYMOUR MORRISON, Indianapolis, Ind. Filed Dec. 1, 1919. Serial No. 341,804. 6 Claims. (Cl. 229—42.)



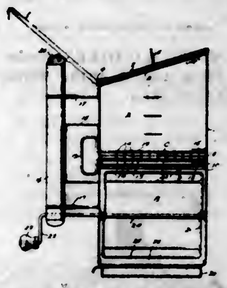
1. The combination, with an instrument case, of a filler formed out of paper board scored and bent at the scores to form a plurality of tables laterally of each other and table supports, and integral reinforcing tongues folded against one or more of said table supports to increase the thickness and strength of the latter.

1,354,414. HAIR-WAVING. MAX MULLER, New York, N. Y. Filed Jan. 14, 1919. Serial No. 271,094. 1 Claim. (Cl. 132—10.)



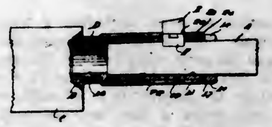
In an apparatus for waving natural hair on the head, a waving tool of an approximately U-shape and upon the side members of which a strand of hair of the head is adapted to be wound by passing the hair repeatedly around one side member, then between the members and around the other member to arrange the hair in a sidewise extending serpentine line, and a tubular covering of a heat insulating material covering the bend of the said waving tool and terminating at its ends at the side member of the tool to hold the hair against sliding off this end of the waving tool, the said covering being adapted to abut against the side of the head of the user to protect the head against being burned by the heated tool.

1,354,415. FLOUR-SIFTER. CARL OSCAR NEPSTAD, Watford, N. D. Filed Dec. 24, 1919. Serial No. 347,129. 5 Claims. (Cl. 83—60.)



3. A flour sifter, comprising a casing, feet at one end of the casing supporting the latter, said casing open at both ends, a sliding cover at the lower end of the casing, a hinged cover at the oupper end of the casing, a screen in the casing, a sliding shutter below the screen dividing the casing into two compartments, reciprocating agitators in the upper compartment at both sides of the screen, a rotary agitator in the lower compartment, a handle secured to the casing, and means adjacent the handle for operating the respective agitators.

1,354,416. SILENCER-COUPLING. STACY OLIVER, Avalon, Pa. Filed Oct. 21, 1919. Serial No. 332,256. 7 Claims. (Cl. 89—31.)



1. In a silencer coupling, the combination, of an inner sleeve bored for a part of its length to fit the muzzle end

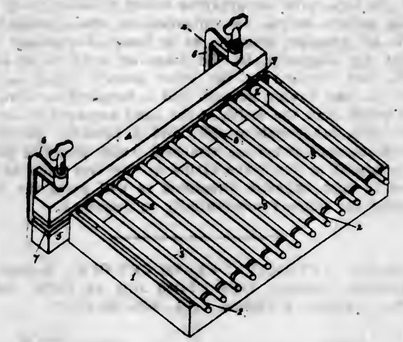
of a gun barrel, an annular shoulder formed at the outer terminal of the gun barrel fitting bore, an outer sleeve rotatably mounted upon the inner sleeve, having a beveled edge adapted to engage the fore sight of a gun to force the muzzle end thereof into engagement with said annular shoulder.

1,354,417. AUTOMATIC STEERING ATTACHMENT FOR MOTOR-VEHICLES. BENJAMIN H. PEGRAM, Lincoln, Ill. Filed Sept. 18, 1919. Serial No. 324,381. 2 Claims. (Cl. 280—87.)



1. An attachment for tractors for exerting a yielding pull on the steering mechanism to turn the guiding wheels in one direction comprising a clamp having jaws to engage a stationary part of the tractor, a clamping bolt extending through the jaws near the inner ends thereof, and an apertured lug projecting from the body portion of the clamp; together with a spiral spring attached at one end to the apertured lug on the clamp and formed into a hook at its other end, and a detachable fixture for attachment to a part of the steering mechanism consisting of a plate with an eye to receive the aforesaid hook on the spring, and means on the plate for securing the same to said steering mechanism.

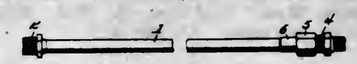
1,354,418. HOLDER FOR USE IN COATING RODS FOR ELECTRIC WELDING. FRANK W. PERSHING, Moline, Ill. Filed Feb. 6, 1920. Serial No. 356,768. 2 Claims. (Cl. 91—60.)



1. In a device of the character described, the combination with a frame having spaced notches on two of its opposite sides to receive rods, of a holder including two members one above the other and adapted to receive ends of rods between them, a resilient material secured on the opposing surfaces of said members and in contact above and below with said rods, and clamping means operable to press said members together and hold the rods therebetween spaced apart by action of the resilient material.

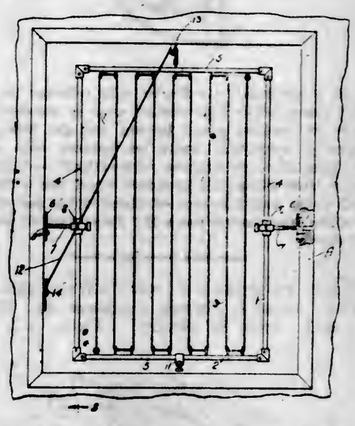
1,354,419. FLEXIBLE CONNECTION FOR STOVES AND THE LIKE. HARVEY B. REPPETTO, Wheeling, W. Va., assignor to The Wheeling Stove & Range Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 5, 1919. Serial No. 308,815. 2 Claims. (Cl. 285—74.)

1. As a new article of manufacture, a flexible metal tube connection for stoves and the like, comprising a soft-metal tube having one end flared to form a bell, a band of relatively harder metal rigidly carried in embracing relation to said end of said tube behind said bell and having its outer end shaped to form a shoulder which conformably seats against said bell for reinforcing the latter, a nipple having one end adapted for seating against the



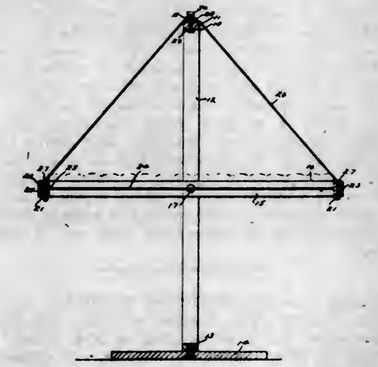
interior face of said bell and carrying screw threads, and a coupling sleeve slidably mounted on said reinforced end and having an internal flange adapted for assuming seated relation to the shoulder of said band, said sleeve also having threads for engagement with those of said nipple.

1,354,420. CLOTHES-DRIER. PATRICK D. RIORDAN, New York, N. Y. Filed Mar. 1, 1919. Serial No. 280,047. 3 Claims. (Cl. 68—34.)



1. In a clothes drier, a frame having substantially parallel side bars and two supporting means for the frame, each having cross tubes disposed side by side, the axis of a tube of each supporting means being disposed for rocking on posts mounted on a window frame, the side bars being slidably disposed in the other tubes.

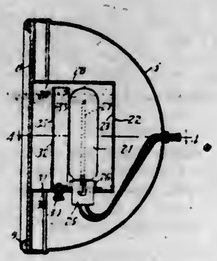
1,354,421. CLOTHES-DRIER. PATRICK D. RIORDAN, New York, N. Y. Filed Oct. 30, 1919. Serial No. 334,500. 3 Claims. (Cl. 68—34.)



1. In a clothes drier, an open frame, a second open frame smaller than the first frame and pivoted intermedi

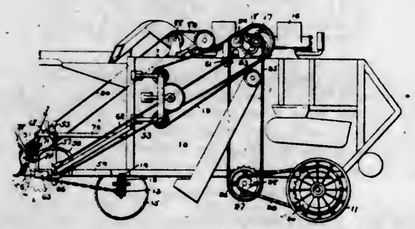
ate of its ends in the first frame, a clothes line carried by the second frame, a cord secured at its ends to the second frame and means on the first frame to clamp the cord.

1,354,422. NON-GLARE HEADLIGHT. LLOYD B. SALT, Dedham, Mass. Filed Jan. 16, 1919. Serial No. 271,502. 3 Claims. (Cl. 240—41.)



1. In a headlight, a reflector, said reflector in its horizontal plane being constructed upon a parabolic curve, and in its vertical plane having straight sides, a pair of parallel horizontal walls intersecting said parabolic curve adapted to confine the rays of light reflected therefrom, a slide adjustably mounted upon one of said horizontal walls, and a source of illumination mounted upon said slide and located upon the focal axis of said parabolic curve.

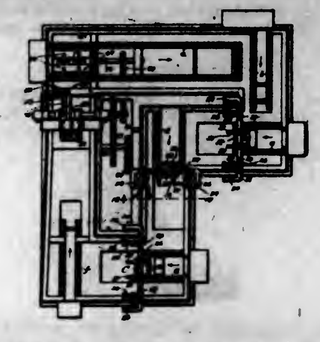
1,354,423. PROPELLING MECHANISM FOR VEHICLES. JAMES L. SIPPLES, Cynthiana, Ky. Filed Jan. 23, 1917. Serial No. 143,905. 1 Claim. (Cl. 74—59.)



A driving mechanism for a vehicle carrying a separator comprising, a source of power, a power shaft connected therewith and traversing the vehicle, means for operating the separator from the power shaft, a counter-shaft extending parallel to said power shaft, a driven shaft traversing the vehicle and disposed adjacent the rear wheels of the same, sprocket wheels arranged on each of said three shafts, a sprocket chain connecting said three sprocket wheels, means connecting said driven shaft to said rear wheels, the sprocket wheel on said power shaft being loosely mounted thereon, a clutch coacting with said loosely mounted sprocket wheel, a pair of intermeshing gears mounted on said power and counter shafts, and a second clutch for coöperation with one of said gear wheels.

1,354,424. RACK-ASSEMBLING MACHINE. OSCAR SLIGER, Louisville, Ky., assignor to Mengel Box Company, Louisville, Ky., a Corporation of New Jersey. Filed June 11, 1920. Serial No. 388,358. 15 Claims. (Cl. 144—2.)

1. In a rack assembling machine, the combination of a plurality of hoppers adapted to hold the separate component rack elements; a form having means therein to receive the elements and to properly space and position



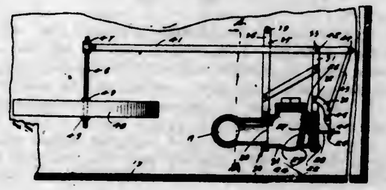
the same; means for successively moving the form beneath the hoppers; and an automatically operated hammer for forcing the rack elements into locking relation.

1,354,425. MANUFACTURE OF PNEUMATIC TIRES. THOMAS SLOPER, Devizes, England. Filed May 5, 1920. Serial No. 378,946. 14 Claims. (Cl. 18—42.)



1. In apparatus for applying radial pressure to an annular article during its vulcanisation, the combination, with an annular support, of a band of resilient material for disposing in the form of a circle co-axial with, and situated in the same general plane as the support, and having at each end a longitudinal strip of less width than the width of the band arranged to extend past each other side-by-side, and a pressure device to which the said strips are attached, which pressure device is arranged to force the strips at the two ends of the band in such opposite directions as will press the band against the support substantially as described.

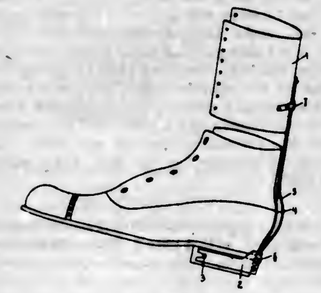
1,354,426. AUTOMATIC VALVE CUT-OFF. ROBERT W. SNYDER, Bigheart, Okla. Filed July 18, 1919. Serial No. 311,707. 5 Claims. (Cl. 137—68.)



1. In a device of the class described, an automatic valve including a valve casing, a valve seated in said casing adjacent the inlet end thereof, a flat valve pivotally secured in the casing and arranged to fit on said seat, a pair of supports secured to the casing and extending above the same, an operating rod pivotally secured to one of said supports adjacent to the rear end of said rod, a float carried by the outer terminal of said rod, an outwardly extending rod pivotally secured to the valve, an

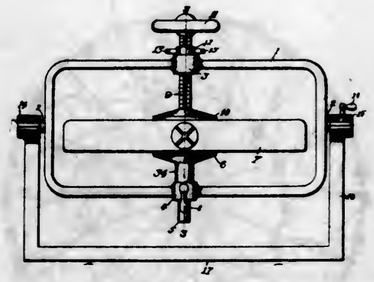
arcuate lever slidably receiving said rod, the upper terminal of said lever being pivotally secured to one of said supports, a stop carried by said last mentioned rod and arranged to engage the outer face of said arcuate lever, and a connecting link pivotally secured to the free end of said actuating rod and the arcuate lever, as and for the purpose specified.

1,354,427. WALKING APPARATUS FOR THE LAME. JOHANNES FRANCISCUS WELTER, Utrecht, Netherlands. Filed Apr. 9, 1920. Serial No. 372,488. 1 Claim. (Cl. 128—80.)



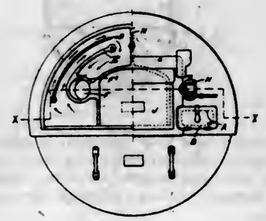
Walking apparatus for the lame, comprising a calf-piece, a piece for attachment to the heel of a shoe, a spring bar attached to said calf-piece and said heel piece, said spring bar having a rearwardly offset bent portion at a point between the heel of the shoe and the ankle of the wearer, and causing said spring to press the foot constantly forward and somewhat upwardly, a second spring bar also attached to the calf piece and heel, arranged on the first named spring bar and having a rearwardly offset bent portion spaced from that of said first named spring bar.

1,354,428. RADIATOR-STAND. ANTON ALBERT WORZEN, Brownsville, Pa. Filed Dec. 23, 1919. Serial No. 347,043. 4 Claims. (Cl. 29—89.)



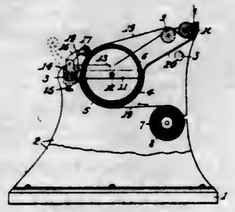
1. A device of the character specified comprising a frame having means for engaging the upper and lower faces of a radiator, said means being adjustable laterally with respect to the plane of the frame, and means for supporting said frame to rotate on a transverse axis parallel with the plane of the radiator when held by the engaging means, said engaging means comprising heads, each of the said heads being adjustable with respect to the frame, and one of the heads having threaded engagement with the frame.

1,354,429. FURNACE-FRONT. CORNELIS ZULVER, London, and LAUNCELOT EUSTACE SMITH, South Shields, England. Filed Aug. 11, 1919. Serial No. 316,733. 1 Claim. (Cl. 110—172.)



A furnace front having a front-plate and a baffle plate rearwardly thereof, the space between said plates forming an air heating chamber around an opening for solid fuel, concentric vanes on the inner face of said back plate forming air channels between air supply openings provided in the front plate, air tubes transversely disposed in said air heating chamber, and liquid fuel burners mounted in said air tubes.

1,354,430. WALL-PAPERING DEVICE. STEVE G. CANELLOS, Connellsville, Pa. Filed Jan. 22, 1920. Serial No. 353,144. 2 Claims. (Cl. 91—14.)



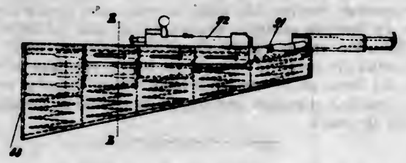
1. A paste-applying device for wall paper, comprising a frame, a paste reservoir of open trough form carried by said frame, a hollow paste-applying roller mounted for rotation within said reservoir and having a paste-carrying covering, said roller having a diameter approximating the interior diameter of said reservoir, guide rollers journaled on said frame in front of said reservoir, a roller for carrying a roll of paper journaled in said frame below the level of said paste-applying roller and from which paper passing to said guide rollers is drawn over said paste-applying roller, and a transversely adjustable cutter whereby paper drawn over said paste-applying roller may be split, said cutter comprising a spring pressed arm movable to and from overlying relation to said paste-applying roller, and a rotary disk having a peripheral cutting edge carried by said arm.

1,354,431. TIRE. WILLIAM CLENDENNING, Philadelphia, Pa. Filed Apr. 14, 1920. Serial No. 373,703. 4 Claims. (Cl. 152—8.)



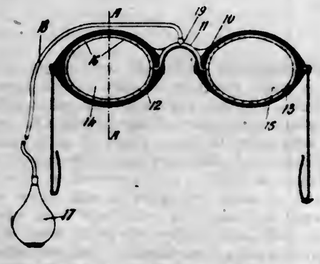
3. In a wheel tire, a body composed of concentric hollow shells embodying adjacent walls and resilient posts intervening said walls and joining the same, said posts being curved and forming resilient bearings for said shells.

1,354,432. MAGAZINE-FEED AND GUN FOR USING SAME. CARLO DE-FELICE, New York, N. Y. Filed Mar. 15, 1918. Serial No. 222,607. 15 Claims. (Cl. 42—49.)



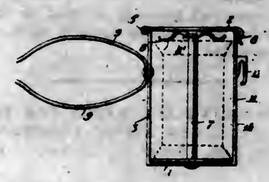
8. A removable magazine feed box provided with a plurality of upwardly directed partitions dividing the same into a plurality of cartridge holding chambers, said partitions leaving a free space at the upper part of said box, a longitudinal running slot through said upper part, sets of cartridges arranged column like in a longitudinal direction within said chambers, a removable bottom for said box, springs inserted between said bottom and the lower cartridge of each set forcing each set of cartridges against the upper part of said box and a feed bar operating through said slot feeding the longitudinal upper row of cartridges in an axial direction away from said box.

1,354,433. LENS-CLARIFYING APPARATUS. CARLO DE-FELICE, New York, N. Y. Filed Aug. 5, 1919. Serial No. 315,537. 4 Claims. (Cl. 2—149.)



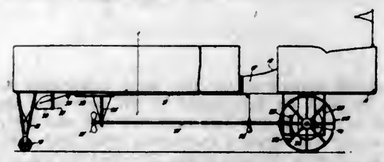
1. In a device of the class described and in connection with a glass member mounted in the line of vision, a tubular frame having perforations close to the surface of said glass member and means causing air under pressure to issue through said perforations.

1,354,434. TWINE-HOLDER. PETER G. FASSOULIS, Syracuse, N. Y. Filed Apr. 20, 1918. Serial No. 229,797. 1 Claim. (Cl. 242—136.)



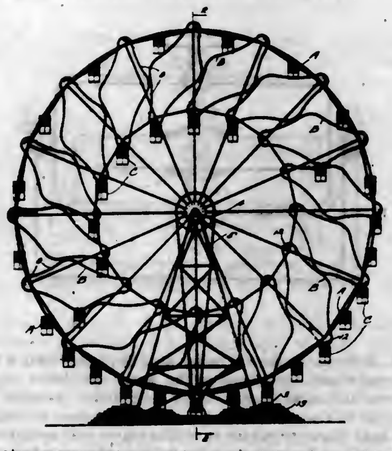
A twine holder comprising a bottom disk, a U-shaped member having its cross piece extending across the disk and its legs forming side pieces, a top disk hinged to one of said side pieces, latch means connecting said top disk with the other side piece, a spool spindle passing through the bottom disk and the cross piece, a spring clip on the upper end of the spindle and acting as a brake for the spool placed on said spindle, one of said side pieces having a vertical slot therein and a horizontal slot communicating therewith and extending through one edge of said piece and a cutting member on said side piece adjacent said vertical slot.

1,354,435. SWIMMING-BOAT. AUGUST GARDELAS, Princeton, N. J. Filed May 8, 1920. Serial No. 379,927. 4 Claims. (Cl. 9—18.)



1. A device of the character described comprising a boat structure upon which an operator may lie at full length, an axle jouraled beneath the forward end of the boat and carrying wheels, handles on said wheels adapted for engagement by the hands of the operator whereby to rotate the wheels, and a supporting wheel at the rear end of the boat structure.

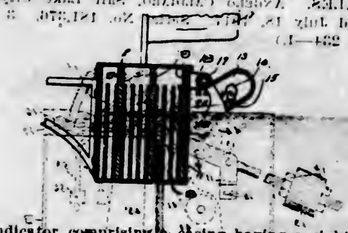
1,354,436. AMUSEMENT APPARATUS. CHARLES HERMANN, New York, N. Y., assignor to Eccentric Ferris Wheel Amusement Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 13, 1920. Serial No. 351,128. 7 Claims. (Cl. 46—27.)



1. An amusement apparatus comprising the combination of a wheel structure rotating on a horizontal axis, and a

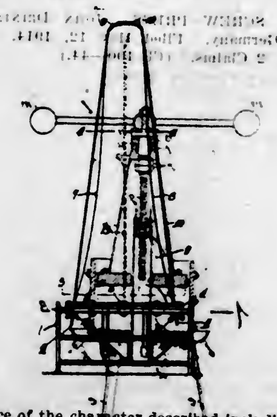
series of passenger carriages mounted thereon and pivotally carried and movable during their travel along inclined tracks toward and from the axis of rotation of the structure, and a supporting wheel at the rear end of the machine adapted to receive the impact of a person standing in the path of the machine to release said keepers from said pin and keepers across the front of the machine and pivoted with a tire holder with a tire holder said type arm also

1,354,437. TRAIN CLASSIFICATION AND NUMBER INDICATOR. WESLEY H. LOWD, Glen Frazer, Calif. Filed Jan. 5, 1917. Serial No. 140,754. 1 Claim. (Cl. 40—132.)



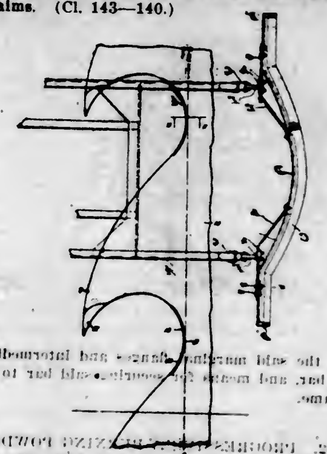
An indicator comprising a casing having a sight opening located in its front side, the edges of the opening being spaced from the edges of the said front side, transverse partitions arranged within the casing and forming a series of compartments, longitudinal partitions arranged within the compartments and having their upper edges disposed below the plane of the upper edges of the transverse partition and the top of the casing, indicator plates arranged between the longitudinal partitions and extending above the same and provided with openings adapted to be engaged by an implement for removing them from the casing, and a reflector mounted upon the casing and located at the exterior thereof at a point in advance of the sight opening and at the upper portion thereof and directed downwardly toward the said sight opening.

1,354,438. IRONER AND MOLDER FOR OVERALLS AND TROUSERS. OTUS PICKERSIMER, Greenville, S. C. Filed Mar. 19, 1920. Serial No. 367,270. 2 Claims. (Cl. 223—17.)



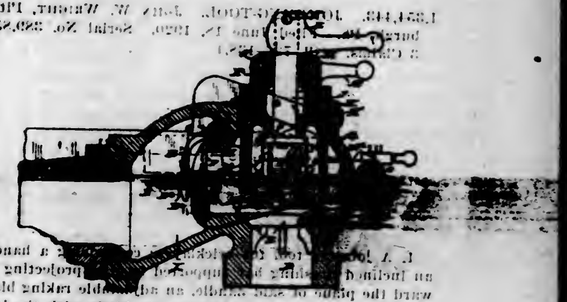
1. A device of the character described including a stand, a hollow tapering casting being closed at its upper end and having a lower open end supported upon said stand, said casting having a partition therein separating the interior thereof into two compartments communicating only at the upper end thereof, means for introducing a heat-carrying medium into the lower end of one of the compartments, means for conveying off the medium after the same has circulated through both of the compartments from the lower end of the other compartment, and an ironing wire associated with said casting and being adjustable to fit the garments substantially as described.

1,354,439. BAND-SAW. MINNIE H. MCCONNELL, New Bedford, Mass. Filed Sept. 30, 1919. Serial No. 326,881. 5 Claims. (Cl. 143—140.)



1. A band saw comprising a flat continuous band, a plurality of teeth formed on one edge of said band, and a throat formed between each of said teeth, the edges of said throats being upset by hammering so as to form reinforcing ribs.

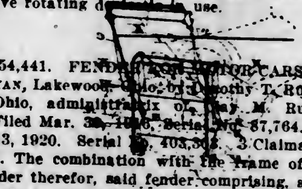
1,354,440. LOCOMOTIVE CHECK-VALVE. JOSEPH B. MOWAT, Cleveland, Ohio. Filed Aug. 20, 1917. Serial No. 187,302. 7 Claims. (Cl. 277—60.)



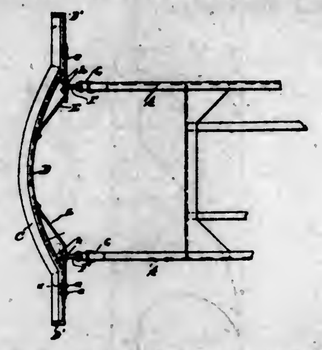
1. In a check valve for use with steam at high pressure, in combination, a casing, a valve seat therein having a vertical opening and independent vertically movable main valve for said seat, said casing provided with a lateral opening, an auxiliary swinging check valve therein, a vertically movable device at the upper end of said casing adapted in its lower position to engage and rotate said main valve, means for raising and for locking said device in inoperative position, said auxiliary check valve serving to prevent back pressure upon said main valve when said valve rotating device is in use.

1,354,441. FENDER FOR MOTOR-CARS. CLAY M. RUNYAN, Lakewood, Ohio, by Dorothy T. Runyan, Cleveland, Ohio, administratrix of Clay M. Runyan, deceased. Filed Mar. 30, 1916. Serial No. 87,764. Renewed Aug. 13, 1920. Serial No. 403,303. 3 Claims. (Cl. 293—55.)

1. The combination with the frame of a vehicle, of a fender therefor, said fender comprising, a buffer bar having forwardly extending inclined flanges at its longitudinal edges, and integral outwardly extending lugs, in-



mediate of its longitudinal edges, and a hollow arched resilient member having its longitudinal edges inserted

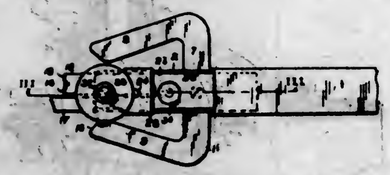


between the said marginal flanges and intermediate lugs on said bar, and means for securing said bar to said vehicle frame.

1,354,442. PROGRESSIVELY-BURNING POWDER AND PROCESS OF MAKING THE SAME. RICHARD G. WOODBRIDGE, Jr., KELLOGG K. V. CASEY, and CLARENCE I. B. HENNING, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 25, 1920. Serial No. 361,287. 10 Claims. (Cl. 52—3.)

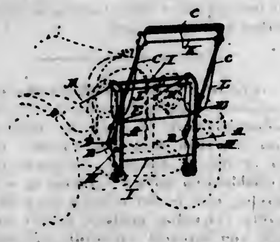
6. A propellent powder comprising deterrent-carrying nitrocellulose powder grains having a firmly adherent coating of an easily ignitible propellant.

1,354,443. JOINTING-TOOL. JOHN W. WRIGHT, Pittsburgh, Pa. Filed June 18, 1920. Serial No. 389,852. 3 Claims. (Cl. 72—138.)



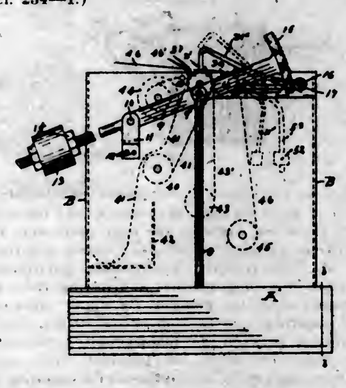
1. A jointing tool for bricklayers comprising a handle, an inclined finishing bar supported by and projecting toward the plane of said handle, an adjustable raking blade having a bit, means for clamping the blade with the handle, and a guide wheel supported from said means.

1,354,444. SAFETY-GUARD FOR USE ON TRUCKS AND AUTOMOBILES. STANLEY E. ATHERTON, Cleveland, Ohio. Filed July 7, 1919. Serial No. 308,987. 6 Claims. (Cl. 293—15.)



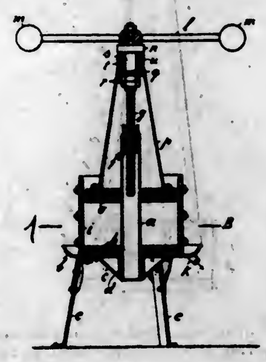
1. In a safety device for an automobile, a vertically swinging frame or loop, a support for each side of said frame, to which the frame is pivoted, keepers movable in said supports and adapted to retain said frame normally in an elevated position, a tripping wire or rope connecting said keepers across the front of the machine and positioned to receive the impact of a person standing in the path of the machine, to release said keepers from said frame, and means limiting the fall of said frame.

1,354,445. RECORDING DEVICE FOR WEIGHING-SCALES. ANGELO CALOIARO, Salt Lake City, Utah. Filed July 18, 1917. Serial No. 181,376. 3 Claims. (Cl. 234—1.)



1. A recording device comprising a shaft mounted for rotation and having an operating pin, a type arm pivotally mounted, having a type at the outer end and having the inner end arranged in the path of movement of said pin and provided with a rule joint, said type arm also having a depending weighted arm to normally raise the typed end of said arm, and means to turn said shaft, said means including an element for connection to a spring controlled scale.

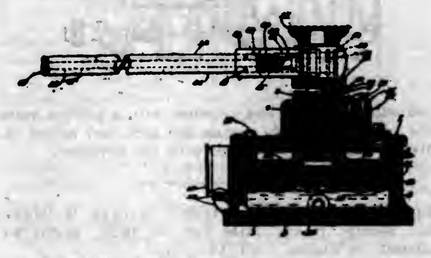
1,354,446. SCREW-PRESS. JOHN DEININGER, Blaubeuren, Germany. Filed May 12, 1914. Serial No. 838,005. 2 Claims. (Cl. 100—44.)



1. In a screw press, the combination of a sheet metal tray to form the bottom of the pressure chamber, an inverted metal cone secured on the lower face of the tray, a tube secured perpendicularly to the tray and to the cone, a stationary nut located in the tube, a threaded spindle adapted to engage the nut and a pressure plate connected to the spindle, for the purpose described.

2. In a screw press, the combination of a sheet metal tray to form the bottom of the pressure chamber, an inverted metal cone secured on the lower face of the tray, a tube reduced in diameter at its upper end and secured perpendicularly to the tray and to the cone, a stationary nut located in the upper end of the larger diameter of the tube, a threaded spindle adapted to engage the nut, and a pressure plate connected to the spindle, for the purpose described.

1,354,447. SCALE. FREDERICK J. TROLL, Baltimore, Md., assignor to The Loadometer Company, a Corporation of Delaware. Filed Aug. 7, 1919. Serial No. 315,834. 2 Claims. (Cl. 265—47.)



1. A weighing device for obtaining the bearing pressure on vehicle tires consisting of a cylinder and piston with means for indicating the fluid pressure in the cylinder, a jack, means for applying the weight lifted by the jack to the cylinder and piston to contract the piston space, said means including a shank, a weight supporting member for the jack having a screw-threaded engagement with said shank, the axis of the screw being parallel to the path of the piston, ratchet means for turning the screw, and means for preventing relative rotation of the piston and cylinder.

1,354,448. TOOL FOR BENDING METAL RODS. JOHN J. WALT, Chicago, Ill. Filed Nov. 5, 1919. Serial No. 335,903. 5 Claims. (Cl. 81—15.)



1. A tool for bending rods comprising a lever member, a shank member extending at an angle thereto, a rod engaging hook member attached to the shank member, a fulcrum member integral with the lever member and projecting at an angle therefrom and at an angle from the shank member, and adjusting means on the fulcrum member.

1,354,449. TIRE. JAMES R. WOOD, Indianapolis, Ind. Filed July 13, 1920. Serial No. 395,836. 6 Claims. (Cl. 152—8.)

1. A vehicle tire including opposed annular series of inner side plates, means interposed therebetween for yieldingly restraining them against outward relative movement, opposed annular series of outer side plates tiltably mounted on the inner side plates, means extending inwardly from the opposed outer side plates constituting



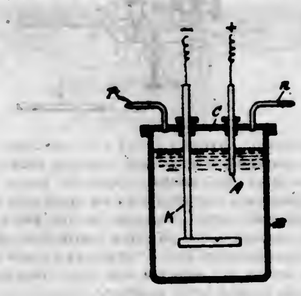
abutments, yielding means carried by the abutments for restraining the outward swinging movement of the outer side plates relative to each other, and a casing housing all of the plates.

1,354,450. BELT-BUCKLE. WILLIAM G. AHRENDT, Newark, N. J. Filed Feb. 18, 1920. Serial No. 359,636. 8 Claims. (Cl. 24—194.)



1. A belt buckle including a body presenting an interior longitudinal passageway for the belt, said passageway being tapered toward one end, and a slide having a substantially flat back plate disposed in a plane in the rear of the plane of the back of said body and extending to the sides of the latter that its ends may be grasped for manipulating the blade, said ends between the front and back edges of the plate presenting depressions for the grasping of the plate and said plate being in substantially the same plane throughout, said slide presenting a portion protruding into said passageway for engagement with the belt.

1,354,451. MANUFACTURE OF REDUCING ALKALINE MELTS. EINAR BERGVE, Christiania, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Filed Mar. 10, 1919. Serial No. 281,753. 8 Claims. (Cl. 204—19.)



8. The method of producing an alkaline melt containing dissolved alkali metal for chemical reductions and syntheses, which comprises electrolyzing a melt containing alkali metal hydroxid with an anode current density of from twenty to fifty amperes per square centimeter and a cathode current density below one ampere per square centimeter.

1,354,452. MACHINE FOR TREATING RUBBER AND SIMILAR MATERIALS. DAVID R. BOWER and CARL F. SCHNUCK, Ansonia, Conn., assignors to Farrel Foundry & Machine Company, Ansonia, Conn., a Corporation of Connecticut. Filed Dec. 24, 1917. Serial No. 208,635. 43 Claims. (Cl. 18—8.)



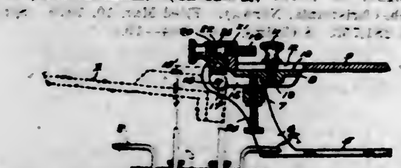
39. In a rubber [illegible] chamber, a rotor for moving the material [illegible] said chamber, and means for charging said chamber from the end.

1,354,453. PATTERN-LATHE. FREDERICK NUESKE, New York, N. Y., assignor to Julius Nueske & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 19, 1919. Serial No. 324,735. 9 Claims. (Cl. 142—47.)



1. The combination in a lathe with a pattern follower and a cutter, of a reciprocable work and pattern support, means on the support holding the pattern against the follower and the work against the cutter, a rotatable shaft, a crank disk, a crank pin adjustable on the crank disk, and a link connecting the crank pin and the support for reciprocating the support upon the rotation of the disk.

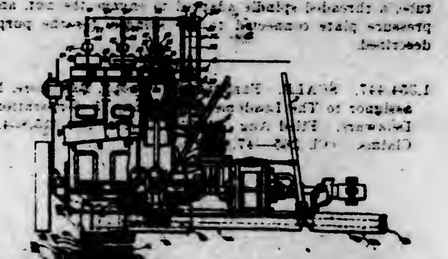
1,354,454. DENTAL ARTICULATOR. JAMES W. TALIAFERRO, Seattle, Wash. Filed Oct. 30, 1919. Serial No. 334,395. 1 Claim. (Cl. 32—1.)



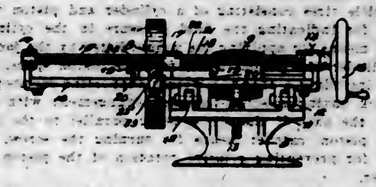
A dental articulator having a lower jaw, an upper jaw comprising two superposed members, a hinge connection between the lower of said members and the lower jaw, said members being each provided with an apertured block element, an adjusting screw engaging in the block elements of both members for effecting horizontal movements of the upper member in forwardly and rearwardly directions, and means for securing the upper member in adjusted positions to said lower member.

1,354,455. OIL-ENGINE. ALEXIS HUNAU, San Pedro, Calif. Filed Feb. 10, 1919. Serial No. 276,933. 11 Claims. (Cl. 123—30.)

1. In an oil engine, the combination with one of the cylinders and the governor thereof, of a piston for the cylinder, a vaporizer for the cylinder communicating therewith, means to inject fuel into said vaporizer, a tube connected with the vaporizer, a valve chamber connected with [illegible] and provided with a port, a valve in the [illegible] to control the port, and means operatively connected with the governor.



1,354,[illegible]HINE. WALKER M. MILLIGAN, Seattle, Wash. Filed Feb. 19, 1920. Serial No. 360,007. 2 Claims. (Cl. 51—231.)



1. In a machine of the character described, a work-supporting table, a carrier comprising a bar provided with downwardly directed extremities to straddle the work, a screw for imparting feed movements to said carrier in a direction longitudinally of said table, and a second screw arranged to impart sliding feed movements to the work within the space between the extremities of said carrier and independently of the latter and with respect to said table.

1,354,457. TIRE-SPREADER. DON O. NATION, Hollywood, Calif., assignor of one-half to William E. Nation, Los Angeles, Calif. Filed May 5, 1919. Serial No. 294,969. 4 Claims. (Cl. 152—27.)



1. A tire spreader comprising a concave bearing plate adapted to fit against the tread of a tire casing, a bar having a rigid hook to engage one bead, said bar fitting against the bearing plate, and a second hook pivotally connected to the bar to engage the other bead.

1,354,458. HAIR-CLIPPER. MARION L. RIGGS, International Falls, Minn. Filed Jan. 21, 1919. Serial No. 272,298. 3 Claims. (Cl. 30—1.)

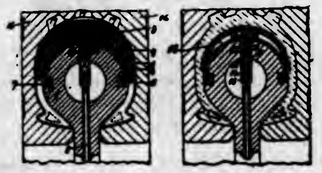
1. In a hair clipping device, a guard which is of a greater thickness at its longitudinal center than at any

other part thereof and which has the outer surface at its center rounded and inclined upwardly to the edges thereof, one of such edges being cut to provide a straight surface, and both of the edges being formed with laterally extending teeth, a blade having its opposite edges provided



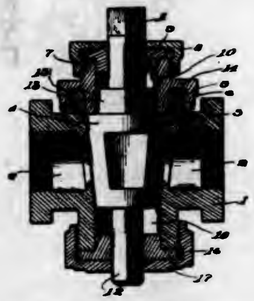
with teeth resting on the guard and reciprocatory thereover, and means for imparting such motion to the blade, a cap plate overlying the blade, and interengaging means between the ends of the cap plate and the ends of the guard.

1,354,459. EXPANSIBLE CORE FOR INDIA-RUBBER ARTICLES. CARL GUSTAF ALFRED BÄCKDAHL, Stockholm, Sweden, assignor to United States Tire Company, a Corporation of New York. Filed Dec. 14, 1915. Serial No. 66,693. 17 Claims. (Cl. 18—45.)



1. A fluid-tight, hollow, stretchable, metallic mantle, and a core within said mantle.

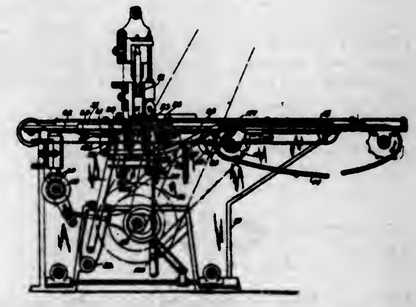
1,354,460. STOP-COCK. FREDERICK C. HEYLMAN, Martinez, Calif. Filed Dec. 10, 1918. Serial No. 266,107. 3 Claims. (Cl. 251—91.)



1. In a stop cock, the combination, of a body provided with a fluid way, a valve cone rotatably mounted in said body for controlling the passage of fluid through said way, a ring flange formed upon the body concentric of the axis of said valve cone, and having its outer edge beveled to form a centrally disposed biting rib, a gland mounted on said ring flange, an annular flange formed upon said gland and extending within the ring flange and into contact with a shoulder on the valve cone, a depending flange formed about the outer edge of said gland and detachably connected to said ring flange, said biting edge adapted to bite into the under surface of said gland to form a fluid-tight joint between the gland and body.

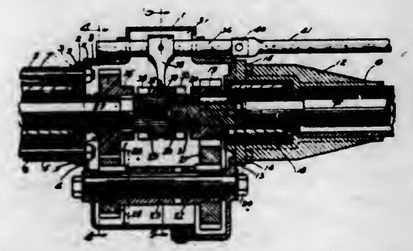
REISSUES.

14,951. WIRE-BOUND-BOX-BLANK MACHINE. FREDERICK J. GRUMME, Indianapolis, Ind., assignor, by mesne assignments, to Wirebound Patents Company, a Corporation of Maine. Filed Dec. 22, 1919, Serial No. 346,788. Original application filed Aug. 8, 1913, Serial No. 783,725. Renewed May 31, 1917. Serial No. 172,075. Original No. 1,253,962, dated Jan. 15, 1918. 17 Claims. (Cl. 1—14.)



15. In a machine for use in making wire-bound boxes, the combination of cleat feeding means and sheet feeding means, the latter means being actuated by the movement of the cleats.

14,952. TRANSMISSION MECHANISM. HENRY N. MOORE, Los Angeles, Calif., assignor to Tractor-Train Company, a Copartnership consisting of himself, Ethan C. Le Munyon, and Frank E. Eckhart, Los Angeles, Calif. Filed Apr. 10, 1920. Serial No. 372,982. Original No. 1,320,635, dated Nov. 4, 1919, Serial No. 184,873, filed Aug. 7, 1917. 5 Claims. (Cl. 74—59.)



1. In combination, a drive shaft, a housing for the drive shaft, a differential housing, change speed mechanism including a casing rigidly secured to the housing of the differential, and a tubular clamping member carried by the casing and receiving and clamping the housing of the drive shaft, there being a bearing in the clamping member for the shaft and said drive shaft being operatively connected with the change speed mechanism.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 28, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 106,414. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DORSEY M. WIRTH, Bucyrus, Ohio. Filed Sept. 24, 1917.

KNO-BIND

Particular description of goods.—Garters.
Claims use since Sept. 1, 1917.

Ser. No. 106,627. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE WILLYS-OVERLAND COMPANY, Toledo, Ohio. Filed Oct. 5, 1917.



No claim is made to the exclusive use of the numeral "6" apart from the mark shown on the drawing.
Particular description of goods.—Automobiles, Automobile-Trucks, Trailers, Whether of Two or More Wheels.
Claims use since May 19, 1917.

Ser. No. 111,638. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1918.

Western Electric

Particular description of goods.—Electric Washing-Machines and Electric Ironing-Machines Used for Laundry Purposes.
Claims use since January, 1911

Ser. No. 113,585. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AMERICAN GAS APPLIANCE COMPANY, Brooklyn, N. Y. Filed Oct. 5, 1918.

GERARD

Particular description of goods.—Gas-Radiators and Gas-Heaters.
Claims use since Jan. 30, 1917.

Ser. No. 118,738. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MILWAUKEE CORRUGATING COMPANY, Greenfield, Wis. Filed May 20, 1919.



Particular description of goods.—Roof-Ventilators Adapted by the Action of the Wind Thereon to Draw Air from the Buildings on Which They Are Mounted.
Claims use since about Oct. 25, 1918.

Ser. No. 118,848. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) M. G. SCOVILLE SONS COMPANY, Ogden, Utah. Filed May 23, 1919.

RIDING HOOD

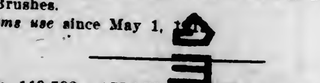
Particular description of goods.—Brooms.
Claims use since May 1, 1919.

Ser. No. 118,855. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) M. G. SCOVILLE SONS COMPANY, Ogden, Utah. Filed May 23, 1919.



Particular description of goods.—Brooms.
Claims use since March 31, 1919.

Ser. No. 119,325. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) H. ARONSON & Co., St. Paul, Minn. Filed June 9, 1919.



Particular description of goods.—Feather Dusters and Dust-Brushes.
Claims use since May 1, 1919.

Ser. No. 119,582. (CLASS 17. TOBACCO PRODUCTS.) REED TOBACCO COMPANY, Richmond, Va. Filed June 13, 1919.



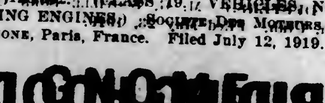
Particular description of goods.—Cigarettes.
Claims use since [illegible].

Ser. No. [illegible] TOBACCO, SNUFF, CIGARETTES, CIGARETTE TOBACCO, CIGARETTE PAPER, CIGARETTE TUBES, CIGARETTE HOLDERS, AND CIGARETTE MACHINES.) T. STANLEY Co., INCORPORATED, New York, N. Y. Filed June 20, 1919.



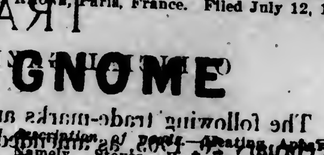
The trade-mark consists of the words "Pompadour Bouquet."
Particular description of goods.—[illegible]
Claims use since 1884.

Ser. No. 120,502. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SOCIÉTÉ DES MOTEURS GNOME ET RHONE, Paris, France. Filed July 12, 1919.



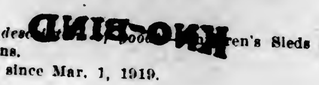
Particular description of goods.—Automobiles, Motor-Cars, Cycle-Cars, Steamships, Sailing-Vessels, Boats, and Motor-Boats.
Claims use since Dec. [illegible] 1918.

Ser. No. 120,508. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) SOCIÉTÉ DES MOTEURS GNOME ET RHONE, Paris, France. Filed July 12, 1919.



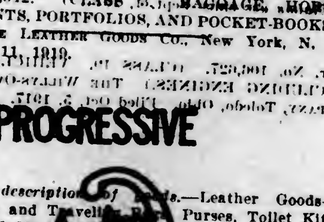
Particular description of goods.—Heating Apparatus, Namely, Stoves, Radiators, Fire-Grates, Boilers, Furnaces, and Kitchen Ranges, and Registers for Buildings.
Claims use since Mar. 29, 1919.

Ser. No. 120,617. (CLASS 22. SLEDS AND SPORTING GOODS.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed July 16, 1919.



Particular description of goods.—Children's Sleds and Coaster-Wagons.
Claims use since Mar. 1, 1919.

Ser. No. 121,542. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) PROGRESSIVE LEATHER GOODS CO., New York, N. Y. Filed Aug. 11, 1919.



Particular description of goods.—Leather Goods—Namely, Hand and Traveling Bags, Purses, Toilet Kits, Portfolios, and Music Rolls.
Claims use since [illegible]

Ser. No. 122,487. (CLASS 23. THREAD AND YARN.) GEORGE W. KAVANAUGH, New York, N. Y. Filed Sept. 9, 1919.



No claim being made to the exclusive right to the use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Yarns.
Claims use since August, 1919.

Ser. No. 122,763. (CLASS 17. TOBACCO PRODUCTS.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Sept. 18, 1919.



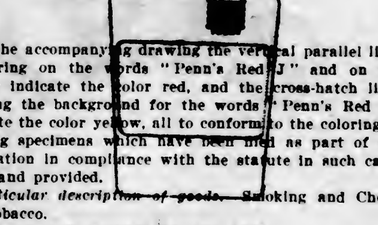
Particular description of goods.—Smoking and Chewing Tobacco.
Claims use since about January, 1896.

Ser. No. 122,875. (CLASS 17. TOBACCO PRODUCTS.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Sept. 19, 1919.



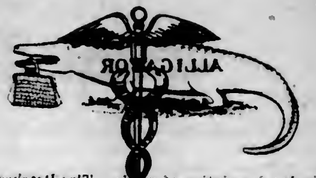
In the accompanying drawing the vertical parallel lines appearing on the words "Penn's Red J" and on the border indicate the color red, and the cross-hatch lines forming the background for the words "Penn's Red J" indicate the color yellow, all to conform to the coloring of the tag specimens which have been filed as part of the application in compliance with the statute in such cases made and provided.
Particular description of goods.—Smoking and Chewing Tobacco.
Claims use since about January, 1896.

Ser. No. 123,068. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) Western Cartridge Company, East Alton, Ill. Filed Sept. 22, 1919.



Particular description of goods.—Shot-Shells, Blasting Caps and Cartridges, Shot, Smokeless and Semismokeless Powders for Ordnance and Small-Arms Ammunition, Primers, and Gun Wads.
Claims use since July 10, 1919.

Ser. No. 123,763. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) SUNTORY, Ltd., Osaka, Japan. Filed Oct. 23, 1919.



Particular description of goods.—Whiskies, Brandies, and Gins.
Claims use since Jan. 1, 1911.

Ser. No. 123,955. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE E. BARTLETT COMPANY, Jackson, Mich. Filed Oct. 27, 1919.



The mark being printed in red.
Particular description of goods.—Stock Food.
Claims use since 1900.

Ser. No. 124,158. (CLASS 35. HOSIERY AND KNIT GOODS, AND NON-PNEUMATIC TIRES.) THE WIRTHLIN-MANN CO., Cincinnati, Ohio. Filed Oct. 24, 1919.



The mark consists of the word "Grizzly," and the representation of the head of a grizzly bear, taken or used together, as shown in the labels and drawing. Without waiving any common-law rights applicant declares for the purposes of registration the catch-phrase "A Bear for Wear."
Particular description of goods.—Leather Belting.
Claims use since Aug. 1, 1919.

Ser. No. 124,370. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MALT-EXTRACT COMPANY, St. Paul, Minn. Filed Nov. 12, 1919.



Particular description of goods.—Malt Extract.
Claims use since Sept. 9, 1919.

Ser. No. 124,429. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ALLIGATOR GRIP COMPANY, Dallas, Tex. Filed Nov. 1, 1919.



Particular description of goods.—Tire-Patches.
Claims use since about Oct. 15, 1919.

Ser. No. 124,794. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) IOWA SOAP COMPANY, Burlington, Iowa. Filed Nov. 12, 1919.



No claim being made to the words "Burlington, Iowa" apart from the mark shown.
Particular description of goods.—Laundry Soap.
Claims use since March, 1894.

Ser. No. No. 124,947. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa., and Long Island City, N. Y. Filed Nov. 15, 1919.



Particular description of goods.—Sponges.
Claims use since July 1, 1919.

Ser. No. 124,964. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) WASHINGTON TIRE & RUBBER COMPANY, Spokane, Wash. Filed Nov. 15, 1919.



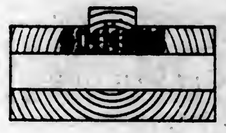
Particular description of goods.—Rubber and Fabric Vehicle Tires, Tubes, Tire-Boots, and Tire-Patches.
Claims use since Oct. 18, 1919.

Ser. No. 125,098. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) WESTERN CARTRIDGE COMPANY, East Alton, Ill. Filed Nov. 19, 1919.



Particular description of goods.—Shot-Shells, Gun-Wads, Cartridges, Shot, Smokeless and Semismokeless Powders for Ordnance and Small-Arms Ammunition, Primers, and Blasting-Caps.
Claims use since January, 1908.

Ser. No. 125,352. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Nov. 26, 1919.



Particular description of goods.—Elbows, Stovepipe; Gas, Coal, Wood, and Oil Stoves; Portable Ovens.
Claims use since Dec. 2, 1910.

Ser. No. 125,860. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) SEAGER, EVANS & CO., LIMITED, London, England. Filed Dec. 11, 1919.



Particular description of goods.—Dry Gin, Peach Bitters; Orange Boven, which Consists of Syrup, Alcohol, and Orange Flavoring; Orange Bitters; Peppermint, which Consists of Syrup, Alcohol, and Peppermint Flavoring; Cherry Brandy, Ginger Brandy, Ginger Gin, Orange Liqueur, Sloe Gin, and Sweetened Gin, Commonly Known as Old Tom.
Claims use since December, 1912.

Ser. No. 126,069. (CLASS 17. TOBACCO PRODUCTS.) F. & E. SOTER CORP., New York, N. Y. Filed Dec. 15, 1919.

LORD NELSON

Particular description of goods.—Cigarettes.
Claims use since August, 1918.

Ser. No. 127,155. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SPELTZ GRAIN & COAL CO., Albert Lea, Minn. Filed Jan. 14, 1920.



No claim is made to the words "Kentucky Coal" apart from the mark shown on the drawing.
Particular description of goods.—Coal.
Claims use since Sept. 1, 1919.

Ser. No. 127,350. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE BATAVIA RUBBER COMPANY, Batavia, N. Y. Filed Jan. 20, 1920.

MERLIN

Particular description of goods.—Automobile Tire Casings and Tubes of Rubber.
Claims use since Jan. 14, 1920.

Ser. No. 127,533. (CLASS 43. THREAD AND YARN.) CHARLES SPICEHANDLER, New York, N. Y. Filed Jan. 24, 1920.

IRIS

Particular description of goods.—Cotton Thread.
Claims use since July 1, 1909.

Ser. No. 127,536. (CLASS 43. THREAD AND YARN.) CHARLES SPICEHANDLER, New York, N. Y. Filed Jan. 24, 1920.



Particular description of goods.—Cotton Thread.
Claims use since Oct. 2, 1909.

Ser. No. 127,747. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE WILLYS-OVERLAND COMPANY, Toledo, Ohio. Filed Jan. 29, 1920.

Triplex

Particular description of goods.—Springs and Spring-Suspension Units for Vehicles, Said Units Comprising Springs and Frames or Parts of Frames, Springs and Axles; Springs, Axles, and Frames or Parts of Frames.
Claims use since on or about the 8th of January, 1920.

Ser. No. 127,793. (CLASS 2. RECEPTACLES.) THE AUTOMOTIVE EXCHANGE OF AMERICA COMPANY, Cleveland, Ohio. Filed Jan. 31, 1920.



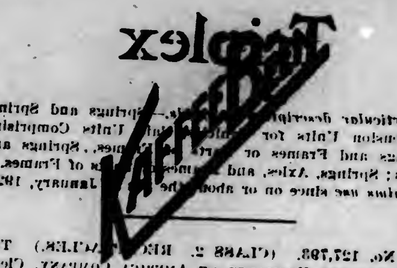
No claim being made to the words "Trade Mark" or "Cleveland, O." apart from the mark as shown in the drawing.
Particular description of goods.—Oil-Cans.
Claims use since Jan. 21, 1920.

Ser. No. 128,105. (CLASS 35, BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE OWEN TIRE AND RUBBER COMPANY, Cleveland, Ohio. Filed Feb. 7, 1920.



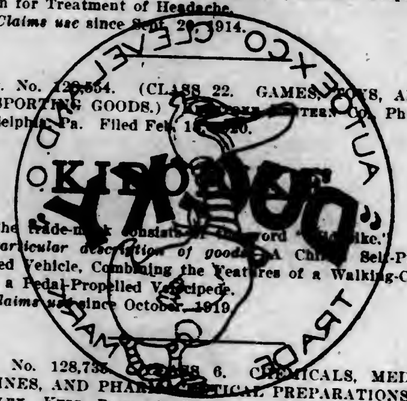
No claim is made to the representation of the goods except in the particular relation shown.
Particular description of goods.—Solid and Pneumatic Tires Composed of Rubber and Rubber Reinforced with Fabric and Inner Tubes of Rubber.
Claims use since April, 1919.

865. No. 128,496. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT LATZKE, Memphis, Tenn. Filed Feb. 17, 1920.



Particular description of goods.—A Medicinal Preparation for Treatment of Headache.
Claims use since Sept. 20, 1914.

Ser. No. 129,564. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) [illegible] Co., Philadelphia, Pa. Filed Feb. 14, 1920.



The trade-mark consists of the word "Kiddie-Kar."
Particular description of goods.—A Child's Self-Propelled Vehicle, Combining the Features of a Walking-Car and a Pedal-Propelled Velocipede.
Claims use since October, 1919.

Ser. No. 128,735. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEX. KERR BROS. & Co., Philadelphia, Pa. Filed Feb. 21, 1920. Under ten-year proviso.



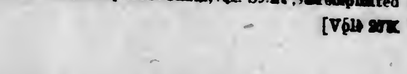
No claim being made to the word "Cleveland, O." apart from the mark as shown in the drawing.
Particular description of goods.—[illegible]
Claims use since [illegible]

Ser. No. 128,883. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ARTHUR CLAASSEN, Jr., Philadelphia, [illegible]. 1920.



Particular description of goods.—[illegible] Hydrous Soap.
Claims use [illegible]

Ser. No. 128,900. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED DRUG CO., Boston, Mass. Filed Feb. 25, 1920.



No claim is made to the exclusive use of the word "Purelest" except in the particular manner of the display as shown in the drawing.
Particular description of goods.—Solid and Liquid Antiseptic Compound of Rubber and Rubber Reinforced with Powdered Alum; Prepared Chalk, Boric Acid, Precipitated Powder Chalk, Orris Compound, Liquor Formaldehyd Comp., Tincture of Cinchona Co., Tincture of Tartar, Epsom Salts, Fluid Extract Cascara, (Whole;) Flaxseed-Meal, Rochelle Salts, Boracic Acid, Sodium Bicarbonate, Sulfum Phosphate, Sulfur, Sulfur and Cream of Tartar, Talcum Powder, Zinc Stearate, Sweet Spirit of Niter, Glycerin Suppositories, Soft Soap, Bismuth Mixture, Tablets, Brown-Mixture [illegible], Compound Tablets, Compound Milk-of-Potash Tablets, [illegible], Ammonia, [illegible], Essence of Sweet [illegible], Fluid Extract Cascara; Fluid [illegible] Cascara, [illegible]; Formaldehyde, Glycerin, [illegible] and Rose-Water, Mixture Rhubarb and Soda, Oil of Almond, Camphorated Oil; Castor-Oil, Citronella-Oil, Cocoanut-Oil, American Cod-Liver Oil, Norwegian Cod-Liver Oil, Goose-Oil, White Mineral Oil, Skunk Oil; Paregoric, Solution, Dobell's; Spirit Ammonia, [illegible], Spirit Camphor, Stokes's Expectorant; Tincture [illegible], Tincture Benzoin Compound, Tincture Benson, Tincture Green Soap, Tincture Iodin, Tincture Jamaica Ginger, Tincture Larkspur, Tincture Myrrh, Witch-Hazel; Boneset, (Loose;) Buchu, (Loose;) Lavender Flowers, (Loose;) Senna, (Loose;) Senna Leaves, (Loose;) Soap for Medicinal Purposes, Tar Oil, Tinctures of Rhubarb, Pepsin Tablets; Soda, Mint, and Pepsin Tablets; Rhinitis Tablets.
Claims use since August, 1919.

Ser. No. 129,03[illegible] (CLASS [illegible] BRUSHES, AND DUSTERS.) [illegible] C. WRIGHT, Summit, N. J. Filed Feb. 28, 1920.



Particular description of goods.—Automobile Tire Tubes and Tubes of Rubber.
Claims use since Jan. 14, 1920.

Ser. No. 127,[illegible]. (CLASS [illegible] TUBING AND TANKS.) [illegible], New York, N. Y. Filed Jan. 24, 1920.



Particular description of goods.—[illegible] Pencil Fountain-Brushes.
Claims use since Jan. [illegible], 1919.

Ser. No. [illegible]. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SWINE BREEDER'S SERVICE, Chicago, Ill. Filed Mar. 1, 1920.



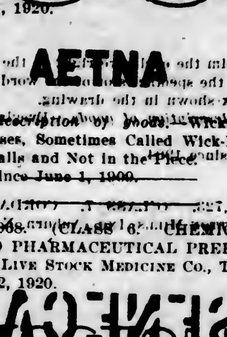
Particular description of goods.—An Apparatus for Vaporizing a Disinfectant Liquid.
Claims use since October, 1919.

Ser. No. 129,[illegible] (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) [illegible] & Co., Philadelphia, Pa. Filed Mar. 3, 1920.



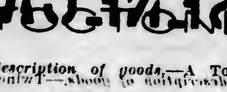
Particular description of goods.—Soap.
Claims use since Mar. 1, 1919.

Ser. No. 129,219. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.



Particular description of goods.—Wicking Used for Packing Purposes, Sometimes Called Wick-Packing, Manufactured in Balls and Not in the Piece.
Claims use since June 1, 1900.

Ser. No. 130,008. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUGAR BELT LIVE STOCK MEDICINE Co., Thibodaux, La. Filed Mar. 22, 1920.



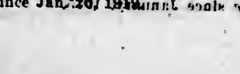
Particular description of goods.—A Tonic for Live Stock.
Claims use since Mar. 2, 1920.

Ser. No. 130,320. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) W. CLARK CHEMICAL LABORATORIES, INC., Chicago, Ill. Filed Mar. 29, 1920.



Trade-mark being the autograph signature of Dr. Clark.
Particular description of goods.—Antiseptic Bolt Dressing.
Claims use since Nov. 1, 1919.

Ser. No. 130,458. (CLASS 28. MEASURING AND SCIENTIFIC APPLIANCES.) WAYNE OIL TANK & PUMP COMPANY, Fort Wayne, Ind. Filed Mar. 31, 1920.



Particular description of goods.—Pipe-Line or Flow Meters.
Claims use since Jan. 20, 1919.

Ser. No. 130,578. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK D. COMANY, Philadelphia, Pa. Filed Apr. 3, 1920.



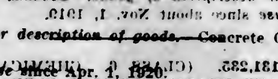
Particular description of goods.—Preparation for Repairing Cracks, Leaks, &c., in Steam and Water Boilers, Radiators, Piping, and other Containers.
Claims use since Oct. 1, 1919.

Ser. No. 131,046. (CLASS 2. RECEPTACLES.) SANITARY REFUSE BOX COMPANY, Chicago, Ill. Filed Apr. 12, 1920.



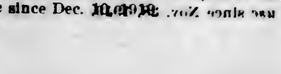
Particular description of goods.—Concrete Garbage-Receptacles.
Claims use since Apr. 1, 1920.

Ser. No. 131,061. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 13, 1920.



Particular description of goods.—A Tonic and Invigorant for the Hair and Scalp.
Claims use since March, 1911.

Ser. No. 131,120. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE F. RIES, Chicago, Ill. Filed Apr. 14, 1920.



No claim is made to the exclusive use of the word "Brand" as it appears in the drawing.
Particular description of goods.—A Coloring for Meats and Meat Products.
Claims use since Dec. 10, 1919.

Ser. No. 131,176. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CHAS. KAUFMANN & SONS, Santa Ana, Calif. Filed Apr. 15, 1920.



Particular description of goods.—Rear-View Mirrors for Automobiles, Motorcycles, and other Vehicles.
Claims use since about Feb. 1, 1920.

Ser. No. 131,226. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE MOREY MERCANTILE CO., Denver, Colo. Filed Apr. 16, 1920.

SILVER BAND

Particular description of goods.—Brooms.
Claims use since about Nov. 1, 1919.

Ser. No. 131,227. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE MOREY MERCANTILE CO., Denver, Colo. Filed Apr. 16, 1920.

MORADO

Particular description of goods.—Brooms.
Claims use since about Nov. 1, 1919.

Ser. No. 131,235. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE C. SPENCER, South Bend, Ind. Filed Apr. 16, 1920.



Particular description of goods.—Perfumes.
Claims use since June 4, 1919.

Ser. No. 131,388. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR HUGH MONTGOMERY, Montgomery, Ala. Filed Apr. 20, 1920.



Particular description of goods.—A Skin-Lotion.
Claims use since Nov. 28, 1919.

Ser. No. 131,397. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAX-TON-ALL CO., New York, N. Y. Filed Apr. 20, 1920.

ROSOLO

Particular description of goods.—A Reconstructive Tonic in Tablet Form.
Claims use since Mar. 25, 1920.

Ser. No. 131,557. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JACQUES BECK, New Orleans, La. Filed Apr. 24, 1920.



I do not claim the exclusive right to the use of the representation of the spectacles or of the word "Spex" apart from the mark shown in the drawing.
Particular description of goods.—Eyeglasses and Spectacles.
Claims use since 1904.

Ser. No. 131,723. (CLASS 7. CORDAGE.) CAYUGA LINEN & COTTON MILLS, INC., Auburn, N. Y. Filed Apr. 28, 1920.

SENECA

Particular description of goods.—Twine.
Claims use since January, 1915.

Ser. No. 131,724. (CLASS 7. CORDAGE.) CAYUGA LINEN & COTTON MILLS, INC., Auburn, N. Y. Filed Apr. 28, 1920.

CAYUGA

Particular description of goods.—Twine.
Claims use since January, 1915.

Ser. No. 131,725. (CLASS 7. CORDAGE.) CAYUGA LINEN & COTTON MILLS, INC., Auburn, N. Y. Filed Apr. 28, 1920.

OTISCO

Particular description of goods.—Twine.
Claims use since January, 1915.

Ser. No. 131,929. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TYLER CHEMICAL COMPANY, Pawtucket, R. I. Filed May 1, 1920.



The words "Trade Mark" do not form a part of petitioner's mark and are expressly disclaimed. Said trademark consists of a red circle divided into quadrants with the word "Tyler" arranged therein in the form of an upright cross and is used for furniture-polish.
Particular description of goods.—Furniture-Polish.
Claims use since Oct. 1, 1919.

Ser. No. 131,953. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed May 3, 1920.

ANTELOPE

Particular description of goods.—Hose Made of Rubber Reinforced with Fabric.
Claims use since about 1901.

Ser. No. 131,957. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed May 3, 1920.

DIRUBCO

Particular description of goods.—Hose and Belting Made of Rubber Reinforced with Fabric.
Claims use since about July, 1916, on belting, and on hose since about October, 1917.

Ser. No. 131,960. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed May 3, 1920.

ELK

Particular description of goods.—Hose Made of Rubber Reinforced with Fabric and Pump-Valves Made Wholly or Partly of Rubber.
Claims use since about 1907.

Ser. No. 131,962. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed May 3, 1920.

LYNX

Particular description of goods.—Belts Made of Fabric Combined with Rubber.
Claims use since about 1901.

Ser. No. 132,017. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE MILLER RUBBER COMPANY, Akron, Ohio. Filed May 4, 1920.



Particular description of goods.—Medicine-Droppers; Sanitary Aprons; Diapers; Nipples; Nursing-Bottles; Finger-Cots; Rubber Tubing for Dental, Medical, and Surgical Uses; Rectal Tubes; Colon-Tubes; Stomach-Tubes; Catheters; Ice-Caps; Ear and Ulcer Syringes; Vaginal Douches; Infant-Syringes; Breast-Pumps; Invalid-Cushions; Water-Bottles; Fountain-Syringes; Combination-Syringes; Dilator-Covers, and Surgeons' Gloves.
Claims use since Aug. 30, 1916.

Ser. No. 132,021. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE NEW YORK ASSOCIATION FOR THE BLIND, New York, N. Y. Filed May 4, 1920.



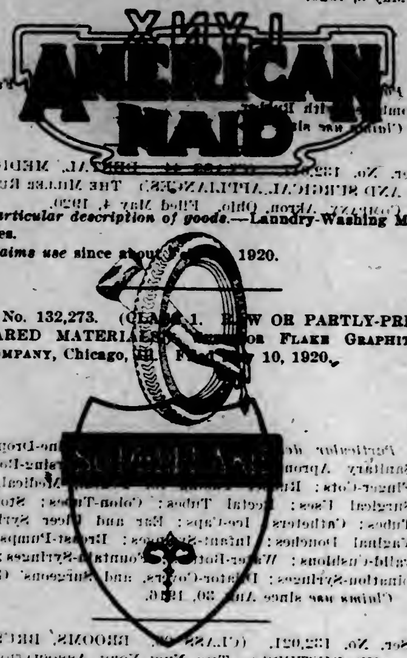
Particular description of goods.—Corn Brooms, Whisk-Brooms, Hair Brush-Brooms, Hair Counter-Dusters, Nail and Scrub Brushes, Mops and Mop-Handles.
Claims use since 1910.

Ser. No. 132,040. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) W. C. COCHRANE CO. INC., Buffalo, N. Y. Filed May 5, 1920.



Particular description of goods.—Ready-Mixed Paints, Paint in Paste Form, Putty, Paint-Oils, Turpentine Substitutes and Varnishes.
Claims use since Dec. 1, 1919.

Ser. No. 132,272. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE AMERICAN MACHINE COMPANY, Chicago, Ill. Filed May 6, 1920.



Particular description of goods.—Laundry-Washing Machines.
Claims use since about [illegible], 1920.

Ser. No. 132,273. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOSEPH DIXON CRUCIBLE COMPANY, Chicago, Ill. Filed May 10, 1920.

Particular description of goods.—Flake Graphite.
Claims use since Jan. 1, 1920.

Ser. No. 132,367. (CLASS 40. CLOTHING.) M. E. SMITH & CO., INC., [illegible] Filed May 12, 1920.



Particular description of goods.—Underwear for Men, Women, and Children, Made of Knit Yarns in Both Wool and Cotton.
Claims use since Mar. 21, 1920.

Ser. No. 132,625. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAWSON B. BURNS, Macon, Ga. Filed May 19, 1920.



No claim being made to the words "Silva Kote" apart from the mark shown on the drawing.
Particular description of goods.—Preparation for Polishing and Tinning, Metallic Surfaces, such as Silver, Brass, Copper, Zinc, &c.
Claims use since June, 1917.

Ser. No. 132,647. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE MILLS BROTHERS COMPANY, Cincinnati, Ohio. Filed May 22, 1920.



Particular description of goods.—Soap and Metal-Polishing Cloth.
Claims use since Sept. 1, 1915.

Ser. No. 132,855. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) ESCANABA MANUFACTURING COMPANY, Escanaba, Mich. Filed May 24, 1920.

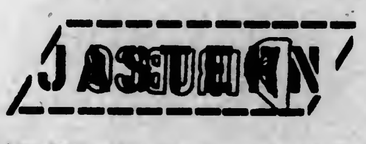


Particular description of goods.—Wooden Clothespins.
Claims use since on or about Jan. 1, 1910.

Ser. No. 133,084. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed May 29, 1920.

Particular description of goods.—Graphite.
Claims use since November, 1918.

Ser. No. 133,156. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB STERN & SONS, Philadelphia, Pa. Filed June 2, 1920.



Particular description of goods.—Tallow, Oleo-Oil, and Oleo-Stearin.
Claims use since Mar. 16, 1920.

Ser. No. 133,308. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) Hide Leather & Belting Co., Philadelphia, Pa. Filed June 5, 1920.



No claim is made to the words "Round Leather," and this same is hereby disclaimed as forming a part of this trade-mark.
Particular description of goods.—Leather Belting.
Claims use since October, 1911.

Ser. No. 133,552. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) NEW CASTLE RUBBER CO., New Castle, Pa. Filed June 10, 1920.



Particular description of goods.—Rubber Inner Tubes for Pneumatic Tires and Pneumatic-Tire Casings Made of Rubber.
Claims use since Jan. 1, 1916.

Ser. No. 133,573. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) DAVIS-BOURNONVILLE COMPANY, New York, N. Y., and Jersey City, N. J. Filed June 11, 1920.



No claim being made to the words and letters "Jersey City, N. J., U. S. A., Apparatus" apart from the mark shown on the drawing.
Particular description of goods.—Machines for Autogenous Welding and Cutting of Metals by Means of Gases, Gas Welding and Cutting Torches, Torch-Tips, and Acetylene-Generators.
Claims use since October, 1917.

Ser. No. 133,710. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SAVANNAH BEVERAGE & ICE CO., Savannah, Ga. Filed June 14, 1920.



Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups Therefor.
Claims use since July 1, 1908.

Ser. No. 133,752. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOPOLA PRODUCTS COMPANY, Indianapolis, Ind. Filed June 15, 1920.



The design being lined for red.
Particular description of goods.—Skin-Cleanser in the Form of a Powdered Soap.
Claims use since May, 1919.

Ser. No. 133,758. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ATTRACT-O-SCOPE CORPORATION, New York, N. Y. Filed June 16, 1920.

ATTRACT-O-SCOPE

Particular description of goods.—Picture-Projection Apparatus Consisting of Stereopticons.
Claims use since April, 1918.

Ser. No. 133,789. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SIDNEY LOOG & SONS, Philadelphia, Pa. Filed June 16, 1920.



Particular description of goods.—Inside and Outside Oil-Paints, Oil and Varnish Stains, Oil and Varnish Enamels, Liquid and Paste Fillers, Colors Ground in Oil, Colors Ground in Japan, Varnishes, and Putty.
Claims use since June 1, 1920.

Ser. No. 134,008. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHESTER CRYSTAL ICE COMPANY, Chester, Pa. Filed June 22, 1920.



The lining of the drawing has no color significance and no claim is made to exclusive use of the words "Z-Ro-Ice Fit to Eat" aside from the mark shown.
Particular description of goods.—Ice.
Claims use since Apr. 1, 1920.

Ser. No. 134,070. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) HENRY HOTZE & SONS COMPANY, St. Louis, Mo. Filed June 23, 1920.



No claim being made to the words "Trade" or "Mark" apart from the mark as shown.

Particular description of goods.—Saddles and Bridles and Leather Parts of the Same.

Claims use since about 1905.

Ser. No. 134,190. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOSEPH HENRY CROXTON, Fort Worth, Tex. Filed June 25, 1920.

TRYIT

Particular description of goods.—Cleanser for Fabrics, Gloves, Shoes, Hats, and Wearing-Apparel.

Claims use since May 15, 1920.

Ser. No. 134,264. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) OXWELD ACETYLENE COMPANY, Newark, N. J. Filed June 26, 1920.

EVEREADY

Particular description of goods.—Oxyacetylene-Welding Pressure-Gages, Spectacles, and Goggles.

Claims use since Dec. 22, 1919.

Ser. No. 134,348. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CASKEY-DUPREE MFG. CO., Marietta, Ohio. Filed June 29, 1920.

AIROLITE

No claim being made to the words "The Adjustable Metal Ventilator for Windows, Transoms, Door Panels" apart from the mark shown. The lining shown is merely for shading.

Particular description of goods.—Ventilators for Windows, Transoms, and Doors.

Claims use since October, 1919.

Ser. No. 134,413. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE DAYTON WIRE WHEEL COMPANY, Dayton, Ohio. Filed June 30, 1920.

Dayton Wire Wheels

No claim is made to the words "Dayton Wire Wheels Quick Detachable" other than in the fanciful form as shown.

Particular description of goods.—Road-Wheels for Motor-Vehicles.

Claims use since July, 1918.

Ser. No. 134,435. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) C. W. SEXTON & CO. INC., Waynesboro, Pa. Filed June 30, 1920.

Sexco

Particular description of goods.—Oil and Gas Heaters, Hot-Air-Circulating Radiators, Oil and Gas Auto-Heaters, Oil and Gas Garage-Heaters, Chimney-Tops, and Ventilators.

Claims use since June 17, 1920.

Ser. No. 134,509. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GOULD & EBERHARDT, Newark, N. J. Filed July 2, 1920.



Particular description of goods.—Shaping-Machines, Automatic Gear-Cutting Machinery, Automatic Gear-Hobbing Machinery, Automatic Rack-Cutting Machinery, Automatic Spur-Gear Machinery, Automatic Bevel-Gear Machinery, Automatic Helical-Gear Machinery, Automatic Worm Machinery, Automatic Worm-Wheel Machinery, Cutter-Grinders, and Automatic Cam-Shaft Machinery, Steel-Plate Transfer, and Drill Presses and Lathes.

Claims use since Jan. 2, 1910.

Ser. No. 134,662. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) REECE-HILTON INC., Troy, N. Y. Filed July 7, 1920.

LIBERTY

Particular description of goods.—Tire-Pumps.

Claims use since May 22, 1920.

Ser. No. 134,680. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) VOGUE MOTOR CAR COMPANY, Tiffin, Ohio. Filed July 7, 1920.



No claim being made for the word "Vogue" or "Tiffin, O., U. S. A." except in connection with the mark as shown.

Particular description of goods.—Automobiles, Automobile-Bodies, and Motor-Trucks.

Claims use since June 12, 1920.

Ser. No. 134,819. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GLIDDEN COMPANY, Cleveland, Ohio. Filed July 12, 1920.

GLIDDEN

Particular description of goods.—Varnishes, Furniture and Automobile Polishes, Paint-Pigment Colors, Dry Colors, Wood-Stains, Wood-Dyes, Metal-Coating Preparations in the Nature of Paints, Wood-Fillers, Japans, Paint and Varnish Driers, Paint and Varnish Asphaltums, Bronzing Liquid, Prepared Paint and Varnish Reducing Liquid, Calcimine; Colors in Oil, Including Grinding Liquids; Enamels in the Nature of a Paint, Acid-Proof Graphite Paint and Coating, Flat Wall-Finish in the Nature of a Paint, Liquid-Concrete Coating in the Nature of a Paint, Deck-Paints, Ready-Mixed and Prepared Paints, Floor-Wax, Paste Paints, Paints in Powdered Form, Floor Oil and Paint, Prepared Shellac, Marking-Ink Paint, and Japan and Liquid Driers.

Claims use since Nov. 1, 1918.

Ser. No. 134,830. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MEYER LIPSCHITZ, New York, N. Y. Filed July 12, 1920.



No claim is made to the words "Brand" and "Leathers" apart from the mark shown on the drawing.

Particular description of goods.—Leathers.

Claims use since Mar. 12, 1920.

Ser. No. 134,877. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BEST YET SOAP COMPANY, Norwich, Conn. Filed July 13, 1920.

TRY IT

Particular description of goods.—A No-Water Hand-Soap.

Claims use since 1910.

Ser. No. 134,914. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed July 13, 1920.



The shade-lines on the drawing indicate shading only.

Particular description of goods.—Soap.

Claims use since 1884.

Ser. No. 134,915. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed July 13, 1920.

GALVANIC

Particular description of goods.—Soap.

Claims use since 1884.

Ser. No. 134,934. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHESEBROUGH MANUFACTURING COMPANY, CONSOLIDATED, New York, N. Y. Filed July 14, 1920.

Vaseline

Particular description of goods.—Toilet Soap.

Claims use since 1880 or before.

Ser. No. 134,970. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) LAURENCE BELTING COMPANY, INC., New York, N. Y. Filed July 14, 1920.



Particular description of goods.—Leather Belting, Cotton Belting, and Belt-Lacing.

Claims use since July 12, 1920.

Ser. No. 135,284. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KENTUCKY COLOR & CHEMICAL COMPANY, Louisville, Ky. Filed July 22, 1920.

Shawnee

Particular description of goods.—Bronze Powders, Putty, Smalt, Whiting, Varnish-Driers, Prepared Shellac, Dry Colors, Colors in Oil, and Paint-Pigments.
Claims use since July 6, 1920.

Ser. No. 135,285. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) LAURENCE BELTING COMPANY, INC., New York, N. Y. Filed July 22, 1920.



Particular description of goods.—Leather Belting, Cotton Belting, and Belt-Lacing.
Claims use since July 11, 1920.

Ser. No. 135,407. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHICAGO STEEL POST COMPANY, Chicago, Ill. Filed July 26, 1920.



The mark consists in coloring a short portion of the upper end of the post yellow, no claim being made to the representation of a post apart from the mark shown in the drawing.
Particular description of goods.—Metallic Fence-Posts.
Claims use since July 12, 1920.

Ser. No. 135,408. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHICAGO STEEL POST COMPANY, Chicago, Ill. Filed July 26, 1920.



The mark consists in coloring a short portion of the upper end of the post black, no claim being made to the representation of a post apart from the mark shown in the drawing.
Particular description of goods.—Metallic Fence-Posts.
Claims use since July 12, 1920.

Ser. No. 135,557. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. HOLLINSHED CO., INC., New York, N. Y. Filed July 29, 1920.

PRIME SUMMER YELLOW COTTONSEED OIL
NEW YORK
ZITA
U.S.A.
CHAS. HOLLINSHED CO. INC.

All reading matter, with exceptions of the word "Zita," is hereby disclaimed.
Particular description of goods.—Prime Summer Yellow Cotton-Seed Oil.
Claims use since June 1, 1920.

Ser. No. 135,562. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WALTER M. LOWNEY COMPANY, Boston, Mass. Filed July 29, 1920.

"ATTRACTIONS

Particular description of goods.—Candy.
Claims use since July 21, 1920.

Ser. No. 135,571. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACKAGE CONFECTIONERY COMPANY, Boston, Mass. Filed July 29, 1920.

COMETS

Particular description of goods.—Candy.
Claims use since Mar. 12, 1912.

Ser. No. 135,593. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed July 30, 1920.

Del Monte

Particular description of goods.—Candies.
Claims use since Dec. 19, 1919.

Ser. No. 135,652. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORRIS AND COMPANY, Chicago, Ill. Filed July 31, 1920.

SUPREMA

Particular description of goods.—Lard.
Claims use since Dec. 8, 1893.

Ser. No. 135,656. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. M. NEWHALL AND CO., San Francisco, Calif. Filed July 31, 1920.

Newhall Quality

The word "Newhall" being in enlarged facsimile handwriting of George Almer Newhall, a member of the firm. No claim is made to exclusive use of the word "Quality" apart from the mark shown in the drawing.
Particular description of goods—Canned Fish, Dried Beans, Salt Fish, Canned Fruits and Canned Vegetables.
Claims use since Oct. 7, 1919.

Ser. No. 135,670. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SANTA ANA PRESERVING COMPANY, Santa Ana, Calif. Filed July 31, 1920.

DEL SUR

Particular description of goods.—Jellied Fruits, Fruit Jelly, Fruit Preserves, and Canned Fruits.
Claims use since Jan. 1, 1920.

Ser. No. 135,696. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BROWN & HALEY, Tacoma, Wash. Filed Aug. 2, 1920.



Particular description of goods.—Candies.
Claims use since Jan. 8, 1920.

Ser. No. 135,697. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAMPBELL, HOLTON & COMPANY, Bloomington, Ill. Filed Aug. 2, 1920.

CANTEEN

Particular description of goods.—Coffee.
Claims use since July 15, 1920.

Ser. No. 135,706. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GENERAL CANDY CO., Milwaukee, Wis. Filed Aug. 2, 1920.

GENERAL NUT

Particular description of goods.—Candy.
Claims use since Jan. 2, 1920.

Ser. No. 135,709. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GENERAL CANDY CO., Milwaukee, Wis. Filed Aug. 2, 1920.



Particular description of goods.—Candy.
Claims use since Jan. 2, 1920.

Ser. No. 135,727. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MCCORD MANUFACTURING COMPANY, Detroit, Mich. Filed Aug. 2, 1920.

2 in 1

Particular description of goods.—Gaskets.
Claims use since Aug. 29, 1919.

Ser. No. 135,756. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) REINHOLD G. KOCH, New York, N. Y. Filed Aug. 3, 1920.



Particular description of goods.—Roach-Traps.
Claims use since May 1, 1920.

Ser. No. 135,776. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED STATES TIRE COMPANY, New York, N. Y. Filed Aug. 4, 1920.

MONO TRADE MARK TWIN

No claim is made for the words "Trade Mark" apart from the mark shown in the drawing.
Particular description of goods.—Solid Rubber Tires for Vehicles.
Claims use since June 17, 1920.

Ser. No. 135,778. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISHOP & COMPANY, Los Angeles, Calif. Filed Aug. 4, 1920.

ALTAGRADE

Particular description of goods.—Candy.
Claims use since Feb. 15, 1920.

Ser. No. 135,797. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) AMERICAN INCUBATOR MANUFACTURING CO., New Brunswick, N. J. Filed Aug. 5, 1920.

Wishbone

Particular description of goods.—Incubators and Brooders.
Claims use since Nov. 1, 1919, on incubators, and on brooders since Dec. 27, 1919.

Ser. No. 135,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAROLINE DOLMAN, Oakland, Calif. Filed Aug. 5, 1920.



Particular description of goods.—Candy.
Claims use since June 15, 1920.

Ser. No. 135,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN C. MCCUBBIN, Fresno, Calif. Filed Aug. 5, 1920.



Particular description of goods.—Extracted Honey and Honey in the Comb.
Claims use since Mar. 15, 1902.

Ser. No. 135,832. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa. Filed Aug. 5, 1920.

Fussy

Particular description of goods.—Candy.
Claims use since Oct. 1, 1908.

Ser. No. 135,909. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ACME PACKING CO., Chicago, Ill. Filed Aug. 9, 1920.

SUNIBAY

Particular description of goods.—Canned Fruits—Namely, Canned Peaches, Pears, Apricots, Cherries, and Pineapple.
Claims use since June 12, 1920.

Ser. No. 135,910. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ACME PACKING CO., Chicago, Ill. Filed Aug. 9, 1920.

CALIBEST

Particular description of goods.—Canned Fruits—Namely, Canned Peaches, Pears, Apricots, Cherries, and Pineapple.
Claims use since June 12, 1920.

Ser. No. 135,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUSTIN NICHOLS & COMPANY, INCORPORATED, Brooklyn and New York, N. Y. Filed Aug. 9, 1920.

PREFERENCIA

Particular description of goods.—Canned Vegetables and Canned Fruits.
Claims use since Mar. 1, 1911.

Ser. No. 135,979. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TOMATINA ALIMENTARY PASTE CO., New York, N. Y. Filed Aug. 10, 1920.

TOMATINA

The trade-mark consists of the word "Tomatina," for food products.
Particular description of goods.—Food Products—viz, Macaroni, Vermicelli, Spaghetti, and Noodles.
Claims use since June 28, 1920.

Ser. No. 136,005. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SENNEFF-HERR CO., Sterling, Ill. Filed Aug. 11, 1920.

EGG O CREME

Particular description of goods.—Confectioners' Product Used for the Centers of Chocolate Creams.
Claims use since 1895.

Ser. No. 136,023. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLLINS-HENCKE CANDY CO., San Francisco, Calif. Filed Aug. 12, 1920.

Gingham Girl

Particular description of goods.—Candy.
Claims use since June 26, 1920.

Ser. No. 136,077. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREEN COUNTY CANNERIES, INC., Milwaukee, Wis. Filed Aug. 13, 1920.

CHÂTEAU

Particular description of goods.—Canned Vegetables.
Claims use since June 21, 1920.

Ser. No. 136,150. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CONTINENTAL COFFEE COMPANY, Wichita, Kans. Filed Aug. 16, 1920.

TOWN TALK

Particular description of goods.—Coffee.
Claims use since Sept. 9, 1911.

Ser. No. 136,182. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. Filed Aug. 16, 1920. Under ten-year proviso.

WHITING

Particular description of goods.—Core-Oven Cars and Charging-Cars.
Claims use since 1894.

Ser. No. 136,190. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EUCLID CANDY CO., Cleveland, Ohio. Filed Aug. 17, 1920.

JazzBabies

Particular description of goods.—Candies.
Claims use since April, 1918.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 28, 1920.

135,189. PHONOGRAPH-DIAPHRAGMS. ALLEN MICA Co., New York, N. Y.
Filed March 16, 1920. Serial No. 129,791. PUBLISHED MAY 25, 1920.

135,190. HAIR, TOOTH, AND CLOTHES BRUSHES. THE AMES-BONNER COMPANY, Toledo, Ohio.
Filed August 20, 1919. Serial No. 121,827. PUBLISHED MAY 25, 1920.

135,191. TOOTHBRUSHES. ANDERSEN, MEYER & Co. LTD., New York, N. Y.
Filed February 7, 1920. Serial No. 128,070. PUBLISHED JUNE 1, 1920.

135,192. CHILDREN'S SLEDS AND WHEELED COASTERS. ALFRED WALDEMAR ANDERSON, St. Paul, Minn.
Filed February 9, 1920. Serial No. 128,131. PUBLISHED JUNE 1, 1920.

135,193. LIQUID WATERPROOFING AND DAMPPROOFING AND LIQUID HARDENER FOR CEMENT AND CEMENT MIXTURES. ANTI-HYDRO WATERPROOFING COMPANY, Newark, N. J.
Filed November 29, 1919. Serial No. 125,416. PUBLISHED JUNE 1, 1920.

135,194. GUM-SHELLAC. AUTOMOTIVE SUPPLY COMPANY, Dallas, Tex.
Filed February 10, 1920. Serial No. 128,195. PUBLISHED JUNE 1, 1920.

135,195. PREPARED MILK FOOD USED IN THE FEEDING OF INFANTS. THE BABIES DISPENSARY & HOSPITAL OF CLEVELAND, Cleveland, Ohio.
Filed March 29, 1920. Serial No. 130,315. PUBLISHED JUNE 1, 1920.

135,196. STOCK AND POULTRY FEEDS. J. J. BADENOCH Co., Chicago, Ill.
Filed November 23, 1918. Serial No. 114,312. PUBLISHED JUNE 8, 1920.

135,197. MOTOR-VEHICLE WHEELS. BAKER WHEEL & RIM COMPANY, Chicago, Ill.
Filed November 21, 1918. Serial No. 114,263. PUBLISHED JUNE 8, 1920.

135,198. OVERALLS, OVERALL SHIRTS, JACKETS, AND PANTS. BELL MANUFACTURING COMPANY, Winder, Ga.
Filed February 28, 1920. Serial No. 129,000. PUBLISHED JUNE 1, 1920.

135,199. SOAP. GEORGE BORGFELDT & Co., New York, N. Y.
Filed December 23, 1918. Serial No. 114,775. PUBLISHED MAY 25, 1920.

135,200. SALVE FOR INFLUENZA, SUMMER-COLDS, CATARRH, ASTHMA, HAY-FEVER, HEAD-COLDS. BRAME DRUG COMPANY, INC., Northwilkesboro, N. C.
Filed October 20, 1919. Serial No. 123,952. PUBLISHED MAY 25, 1920.

135,201. CARS AND CAR-TRUCKS. THE J. G. BRILL COMPANY, Philadelphia, Pa.
Filed December 22, 1919. Serial No. 126,305. PUBLISHED JUNE 8, 1920.

135,202. SETS OF CARDS FOR PLAYING GAMES. COOZIE BRITTON, Higginsville, Mo.
Filed February 25, 1920. Serial No. 128,877. PUBLISHED JUNE 1, 1920.

135,203. BABBITT METAL AND ANTIFRICTION METALS. PAUL R. BROWN, New York, N. Y.
Filed October 16, 1919. Serial No. 123,839. PUBLISHED JUNE 8, 1920.

135,204. MONTHLY MAGAZINE USED AS A HOUSE ORGAN. BROWNSTEIN-LOUIS COMPANY, Los Angeles, Calif.
Filed July 19, 1919. Serial No. 120,692. PUBLISHED JUNE 15, 1920.

135,205. WALL-BOARD AND BUILDING-PAPER. BUFFALO WALL BOARD COMPANY, INC., Buffalo, N. Y.
Filed December 5, 1919. Serial No. 125,595. PUBLISHED MARCH 23, 1920.

135,206. UMBRELLAS. JOHN U. BURT INC., New York, N. Y.
Filed March 17, 1920. Serial No. 129,827. PUBLISHED MAY 25, 1920.

135,207. ELECTRIC FUSES AND CUT-OUTS. BUSSMANN MANUFACTURING COMPANY, St. Louis, Mo.
Filed September 22, 1919. Serial No. 122,958. PUBLISHED JUNE 8, 1920.

135,208. CANDY, FRESH FRUITS, AND NUTS IN THEIR NATURAL STATE. CANTERBURY CANDY MAKERS, Seattle, Wash.
Filed October 20, 1919. Serial No. 123,962. PUBLISHED JUNE 8, 1920.

135,209. MILK-CHOCOLATE. CARNATION MILK PRODUCTS COMPANY, Portland, Me., and Seattle, Wash.
Filed May 13, 1916. Serial No. 95,120. PUBLISHED JUNE 8, 1920.

135,210. PIANOS. THE CHUTE & BUTLER Co., Peru, Ind.
Filed February 6, 1920. Serial No. 128,043. PUBLISHED JUNE 1, 1920.

135,211. LOTION FOR CHAPPED HANDS, SUNBURN, SALT-RHEUM, AND CHAFING. CHARLES D. CLINTON Co., Kingston, N. Y.
Filed January 6, 1920. Serial No. 126,849. PUBLISHED APRIL 27, 1920.

135,212. TALKING-MACHINE RECORDS. COLUMBIA GRAPHOPHONE MANUFACTURING COMPANY, Bridgeport, Conn.
Filed November 25, 1919. Serial No. 125,274. PUBLISHED JUNE 8, 1920.

135,213. PIANOS. CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, Trustees, Boston, Mass.
Filed December 26, 1919. Serial No. 126,454. PUBLISHED JUNE 8, 1920.

135,214. PIANOS. CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, Trustee, Boston, Mass.
Filed December 26, 1919. Serial No. 126,455. PUBLISHED JUNE 8, 1920.

135,215. PIANOS. CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, Trustees, Boston, Mass.
Filed December 26, 1919. Serial No. 126,456. PUBLISHED JUNE 8, 1920.

135,216. CERTAIN NAMED MACHINERY. CHEMICAL EQUIPMENT COMPANY, Chicago, Ill.
Filed December 17, 1919. Serial No. 126,168. PUBLISHED JUNE 15, 1920.

135,217. WASHING-POWDER. CITRUS SOAP COMPANY, San Diego, Calif.
Filed April 14, 1919. Serial No. 117,436. PUBLISHED MAY 25, 1920.

135,218. WASHING-POWDER. CITRUS SOAP COMPANY, San Diego, Calif.
Filed April 14, 1919. Serial No. 117,437. PUBLISHED MAY 25, 1920.

135,219. WASHING-POWDER. CITRUS SOAP COMPANY, San Diego, Calif.
Filed April 14, 1919. Serial No. 117,438. PUBLISHED MAY 25, 1920.

135,220. LIGHT-WEIGHT ALL-WOOL WORSTED IN THE PIECE IN VARIOUS PATTERNS AND COLORS. COHEN & EHRENBERG, New York, N. Y.
Filed February 3, 1920. Serial No. 127,897. PUBLISHED JUNE 1, 1920.

135,221. CERTAIN NAMED ORGANIC CHEMICALS. DAVIDSON BROTHERS, Chula Vista, Calif., assignors to Mandroon Chemical Co., Chula Vista, Calif., a Firm composed of Clinton J. Davidson and George A. Davidson.
Filed August 26, 1919. Serial No. 122,010. PUBLISHED MAY 4, 1920.

135,222. EGGS. DEBOW & Co., Newark, N. J.
Filed March 9, 1920. Serial No. 129,454. PUBLISHED JUNE 1, 1920.

135,223. MEN'S AND WOMEN'S BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER AND FABRIC. DIAMOND SHOE CO., New York, N. Y.
Filed March 11, 1920. Serial No. 129,541. PUBLISHED MAY 25, 1920.

135,224. LIQUID BLOOD-PURIFYING PREPARATION. APOLINARAS DOBRICKAS, Camp Merritt, N. J.
Filed March 7, 1919. Serial No. 116,362. PUBLISHED MAY 25, 1920.

135,225. MIXED FEEDS FOR HORSES, CATTLE, HOGS, DAIRY-COWS, AND POULTRY. DONMEYER, GARDNER Co., Peoria, Ill.
Filed March 10, 1920. Serial No. 129,490. PUBLISHED JUNE 1, 1920.

135,226. VELVET PIECE GOODS. JAMES H. DUNHAM & Co., New York, N. Y.
Filed March 9, 1920. Serial No. 129,456. PUBLISHED JUNE 1, 1920.

135,227. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed March 6, 1920. Serial No. 129,311. PUBLISHED JUNE 1, 1920.

135,228. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed March 6, 1920. Serial No. 129,312. PUBLISHED JUNE 1, 1920.

135,229. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed March 6, 1920. Serial No. 129,314. PUBLISHED JUNE 1, 1920.

135,230. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed March 6, 1920. Serial No. 129,315. PUBLISHED JUNE 1, 1920.

135,231. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed March 6, 1920. Serial No. 129,316. PUBLISHED JUNE 1, 1920.

135,232. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed April 5, 1920. Serial No. 130,656. PUBLISHED MAY 25, 1920.

135,233. PRODUCTS—NAMELY, BUTTER. HAROLD B. EINGOLD, Worcester, Mass.
Filed September 29, 1919. Serial No. 123,242. PUBLISHED MAY 25, 1920.

135,234. BOYS' CORDUROY, WASH, LINEN, WOOLEN, AND WORSTED SUITS AND BOYS' KNICKERBOCKERS. ELGART SPECIALTY CLOTHING Co., New York, N. Y.
Filed March 19, 1920. Serial No. 129,925. PUBLISHED MAY 25, 1920.

135,235. CYCLE-HANDLE-BAR GRIPS. ESSEX RUBBER COMPANY, Trenton, N. J.
Filed March 29, 1920. Serial No. 130,324. PUBLISHED JUNE 8, 1920.

135,236. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. EUREKA PRODUCTS Co., St. Louis, Mo.
Filed September 6, 1919. Serial No. 122,391. PUBLISHED MAY 25, 1920.

135,237. SWEATERS, WOMEN'S ONE-PIECE MUSLIN UNDERWEAR, BLOUSES, AND WORK-SHIRTS. EXCELLO MERCHANDISE Co., INC., New York, N. Y.
Filed December 29, 1919. Serial No. 126,565. PUBLISHED JUNE 8, 1920.

135,238. STOCK FOOD. FABER & COMPANY, Peoria, Ill.
Filed December 15, 1919. Serial No. 126,016. PUBLISHED JUNE 15, 1920.

135,239. TEXTILE BLANKETS. THE FAIR, Chicago, Ill.
Filed December 29, 1919. Serial No. 126,570. PUBLISHED JUNE 8, 1920.

135,240. WATCHES, WATCHCASES, WATCHWORKS, AND DIALS. PAUL FORRIGER & Co., New York, N. Y.
Filed March 6, 1920. Serial No. 129,318. PUBLISHED JUNE 1, 1920.

135,241. HAIR-TONIC. WILLIAM H. FORST, Scottdale, Pa.
Filed March 26, 1918. Serial No. 109,798. PUBLISHED MAY 25, 1920.

135,242. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN Co., Passaic, N. J.
Filed February 27, 1920. Serial No. 128,959. PUBLISHED JUNE 1, 1920.

135,243. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN Co., Passaic, N. J.
Filed March 17, 1920. Serial No. 129,834. PUBLISHED JUNE 1, 1920.

135,244. MOVING-PICTURE FILMS. FUNK & WAGNALLS COMPANY, New York, N. Y.
Filed May 10, 1920. Serial No. 132,237. PUBLISHED JULY 27, 1920.

135,245. SECTION OF A PERIODICAL PUBLISHED WEEKLY. FUNK & WAGNALLS COMPANY, New York, N. Y.
Filed May 10, 1920. Serial No. 132,238. PUBLISHED JULY 6, 1920.

135,246. MOVING-PICTURE FILMS. FUNK & WAGNALLS COMPANY, New York, N. Y.
Filed May 10, 1920. Serial No. 132,239. PUBLISHED AUGUST 3, 1920.

135,247. TURPENTINE. GASTON, WILLIAMS & WIGMORE, INC., New York, N. Y.
Filed February 7, 1919. Serial No. 115,675. PUBLISHED JUNE 8, 1920.

135,248. PREPARED CAKE MIXTURE. E. C. GATLIN COMPANY, Kansas City, Mo.
Filed February 24, 1920. Serial No. 128,775. PUBLISHED JUNE 1, 1920.

135,249. GINGER-ALE. GOLD FISH GINGER ALE COMPANY, Pocatello, Idaho.
Filed February 24, 1920. Serial No. 128,839. PUBLISHED JUNE 1, 1920.

135,250. SHOE-POLISHES, SHOE-BLACKINGS, SHOE-CLEANSERS, LEATHER-DRESSINGS, LEATHER-PRESERVATIVES, AND METAL-POLISH. GRIFFIN MANUFACTURING Co., INC., New York, N. Y.
Filed April 14, 1919. Serial No. 117,453. PUBLISHED MAY 25, 1920.

135,251. TOOL-GRINDING MACHINES. LUTHER GRINDER MANUFACTURING COMPANY, Milwaukee, Wis.
Filed December 18, 1918. Serial No. 114,700. PUBLISHED APRIL 6, 1920.

135,252. ELECTRICAL LAVATORY DRYING-MACHINES. GROTON ELECTRICAL DEVICES INC., Groton, N. Y.
Filed April 3, 1918. Serial No. 109,941. PUBLISHED JUNE 8, 1920.

135,253. MOTOR-TRUCKS AND AUTOMOBILES. HAMILTON MOTORS COMPANY, Grand Haven, Mich.
Filed September 8, 1919. Serial No. 122,482. PUBLISHED JUNE 8, 1920.

135,254. REFRIGERATORS. HARDER MANUFACTURING CORPORATION, Cobleskill, N. Y.
Filed December 2, 1919. Serial No. 125,500. PUBLISHED MAY 25, 1920.

135,255. REFRIGERATORS. HARDER MANUFACTURING CORPORATION, Cobleskill, N. Y.
Filed February 19, 1920. Serial No. 128,601. PUBLISHED MAY 25, 1920.

135,256. INSECTICIDES FOR DOGS AND CATS. GEORGE T. HARZ, Chicago, Ill.
Filed April 16, 1919. Serial No. 117,526. PUBLISHED MAY 25, 1920.

135,257. CLEANSING PREPARATION FOR WOODWORK, METAL, OR CLOTHING. J. J. & G. W. HAYNES, Atlanta, Ga.
Filed February 26, 1920. Serial No. 128,925. PUBLISHED MAY 25, 1920.

135,258. PLAYER-PIANOS. THE HERZFELD-PHILLIPSON COMPANY, Milwaukee, Wis.
Filed December 15, 1919. Serial No. 126,032. PUBLISHED JUNE 8, 1920.

135,259. MAGAZINE OR PERIODICAL PUBLISHED MONTHLY. MAX HEYMANN, Mount Vernon, N. Y.
Filed August 14, 1919. Serial No. 121,672. PUBLISHED JUNE 15, 1920.

135,260. FISHING-RODS, FISHING-LINES, FISHING-REELS, FISHHOOKS, AND FISHING-BAIT—NAMELY, ARTIFICIAL MINNOWS. HIBBARD, SPENCER, BARTLETT & Co., Chicago, Ill.
Filed December 23, 1919. Serial No. 126,378. PUBLISHED JUNE 8, 1920.

135,261. CLEANING COMPOUND FOR CLEANING TEXTILES AND FLOOR-COVERINGS, SUCH AS CARPETS. ELIZABETH M. HICKEY, Seattle, Wash.
Filed April 10, 1917. Serial No. 102,864. PUBLISHED JUNE 1, 1920.

135,262. TRAILERS. HIGHWAY TRAILER COMPANY, Edgerton, Wis.
Filed March 17, 1919. Serial No. 116,654. PUBLISHED MAY 25, 1920.

135,263. FISHING-LINES. THE HORTON MANUFACTURING Co., Bristol, Conn.
Filed February 18, 1920. Serial No. 128,551. PUBLISHED JUNE 1, 1920.

135,264. GIRLS' COTTON WASH-DRESSES AND ROMPERS FROM TWO TO SIX YEARS OF AGE. CAROLYN M. HUNT, Los Angeles, Calif.
Filed November 24, 1919. Serial No. 125,228. PUBLISHED APRIL 6, 1920.

135,265. UNION-SUITS, SHIRTS, AND DRAWERS. MORRIS ISAAC & SONS, Cincinnati, Ohio.
Filed March 19, 1920. Serial No. 129,946. PUBLISHED MAY 25, 1920.

135,266. CLOTHES-WASHING MACHINES AND MANGLES. JOHN KASHINSKY, Weehawken, N. J.
Filed October 30, 1919. Serial No. 124,349. PUBLISHED MARCH 30, 1920.

135,267. COFFEE. THE C. D. KENNY Co., Baltimore, Md.
Filed September 26, 1919. Serial No. 123,164. PUBLISHED JUNE 8, 1920.

135,268. LEATHER BOOTS AND SHOES. KIMBALL & SHERMAN COMPANY, Haverhill, Mass.
Filed February 12, 1920. Serial No. 128,308. PUBLISHED JUNE 1, 1920.

135,269. CIGARETTES, LITTLE CIGARS AND SMOKING-TOBACCO. ESTATE OF I. B. KRINSKY, INC., New York, N. Y.
Filed October 10, 1919. Serial No. 123,649. PUBLISHED JUNE 8, 1920.

135,270. RUBBER HEELS. THE LORAIN RUBBER HEEL COMPANY, Lorain, Ohio.
Filed February 24, 1920. Serial No. 128,848. PUBLISHED JUNE 1, 1920.

135,271. SHOES MANUFACTURED OF LEATHER, FABRICS, AND COMBINATIONS OF LEATHER AND FABRICS. LORD & TAYLOR, New York, N. Y.
Filed March 3, 1920. Serial No. 129,192. PUBLISHED JUNE 1, 1920.

135,272. BANJOS, MANDOLINS, GUITARS, AND UKULELE-BANJOS. LYON & HEALY, Chicago, Ill.
Filed March 6, 1920. Serial No. 129,330. PUBLISHED JUNE 1, 1920.

135,273. CIGARETTES. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed December 9, 1919. Serial No. 125,755. PUBLISHED MAY 11, 1920.

135,274. PRINTING-PAPER AND WRITING-PAPER. HENRY LINDENMEYR & SONS, New York, N. Y.
Filed February 5, 1920. Serial No. 128,061. PUBLISHED JUNE 1, 1920.

135,275. LIGHTING UNITS—NAMELY, TRANSLUCENT REFLECTORS FOR SEMI-INDIRECT ILLUMINATION. LUMINOUS SPECIALTY COMPANY, Indianapolis, Ind.
Filed December 1, 1919. Serial No. 125,466. PUBLISHED JUNE 8, 1920.

135,276. CORSETS. R. H. MACY & Co., New York, N. Y.
Filed April 8, 1918. Serial No. 110,054. PUBLISHED OCTOBER 7, 1919.

135,277. CORSETS. R. H. MACY & Co., New York, N. Y.
Filed June 12, 1919. Serial No. 119,525. PUBLISHED OCTOBER 7, 1919.

135,278. ELECTRIC COFFEE-ROASTERS. MAGIC COFFEE MACHINE COMPANY, INC., Chicago, Ill.
Filed December 20, 1919. Serial No. 126,284. PUBLISHED JUNE 8, 1920.

135,279. LUBRICATING-OILS. MAGNOLIA PETROLEUM COMPANY, Dallas, Tex.
Filed December 23, 1918. Serial No. 114,786. PUBLISHED MAY 13, 1919.

135,280. FOUNTAIN-PENS. W. J. MAY & Co., LIMITED, East Twickenham, England.
Filed October 8, 1919. Serial No. 123,548. PUBLISHED JUNE 8, 1920.

135,281. IRONSTONE CHINA AND SEMIPORCELAIN EARTHENWARE. J. & G. MEAKIN LIMITED, Hanley, England.
Filed September 30, 1919. Serial No. 123,288. PUBLISHED MAY 4, 1920.

135,282. DOLLS. MINNIE M. MELDRAM, New York, N. Y.
Filed February 14, 1920. Serial No. 128,397. PUBLISHED JUNE 1, 1920.

135,283. CIGARETTES. MELIKIAN CIGARETTES, INC., Wilmington, Del., and Trenton, N. J.
Filed January 31, 1920. Serial No. 127,821. PUBLISHED MAY 11, 1920.

135,284. LEATHER BOOTS AND SHOES. MERCHANTS TRADE ASSOCIATION COMPANY, Chicago, Ill.
Filed March 5, 1920. Serial No. 129,272. PUBLISHED JUNE 1, 1920.

135,285. BOOTS AND SHOES MADE OF LEATHER. W. H. MILES SHOE CO., INC., Richmond, Va.
Filed August 12, 1919. Serial No. 121,593. PUBLISHED MAY 25, 1920.

135,286. CANNED CONCENTRATED CLAM AND OYSTER JUICES. MOLUSKA CORPORATION, New York, N. Y.
Filed December 13, 1919. Serial No. 125,963. PUBLISHED JUNE 8, 1920

135,287. WEEKLY MAGAZINE. MOTION PICTURE NEWS, INC., New York, N. Y.
Filed June 25, 1919. Serial No. 119,955. PUBLISHED JUNE 15, 1920.

135,288. SKIN-LOTIONS. MUTUAL DRUG COMPANY, Ellenville, N. Y.
Filed December 16, 1918. Serial No. 114,676. PUBLISHED MAY 25, 1920.

135,289. COMPOUND FOR IMPROVING THE CHARACTER OR QUALITY OF BEER OR NEAR BEER. THE NATIONAL BREWERS ACADEMY & CONSULTING BUREAU, New York, N. Y.
Filed June 20, 1919. Serial No. 119,810. PUBLISHED JANUARY 6, 1920.

135,290. NEWSPAPERS. WARD A. NEFF, Chicago, Ill.
Filed July 10, 1919. Serial No. 120,427. PUBLISHED JUNE 15, 1920.

135,291. HOUSE, HAT, SINK, CUSPIDOR, AND DISH-CLEANING BRUSHES. ANDREW J. NEUBERGER, Boston, Mass.
Filed January 14, 1920. Serial No. 127,146. PUBLISHED JUNE 1, 1920.

135,292. MEN'S AND WOMEN'S HOSIERY OF WOOL, COTTON, SILK, AND MIXTURES OF THE SAME. NU-TEX HOSIERY CO., INC., Utica, N. Y.
Filed March 17, 1920. Serial No. 129,860. PUBLISHED MAY 25, 1920.

135,293. TABLE-KNIVES OF BASE METAL. NORTHAMPTON CUTLERY COMPANY, Northampton, Mass.
Filed August 29, 1919. Serial No. 122,131. PUBLISHED JUNE 8, 1920.

135,294. OIL FOR USE IN MAKING CORES IN FOUNDRIES. ALBERT OLMSTEAD, Philadelphia, Pa.
Filed March 5, 1920. Serial No. 129,278. PUBLISHED JUNE 1, 1920.

135,295. AMUSEMENT DEVICES EMPLOYING MIRRORS FOR REFLECTING MOVEMENT. OROTECH MANUFACTURING CO., Wilmington, Del., and Pittsburgh, Pa.
Filed December 12, 1919. Serial No. 125,907. PUBLISHED JUNE 15, 1920.

135,296. GINGHAMS IN THE PIECE AND COTTON PIECE GOODS. PARKHILL MFG. CO., Fitchburg, Mass.
Filed December 18, 1919. Serial No. 126,227. PUBLISHED JUNE 8, 1920.

135,297. RUBEFACIENT AND ANODYNE CREAM. THE E. L. PATCH CO., Stoneham, Mass.
Filed September 5, 1919. Serial No. 122,366. PUBLISHED MAY 25, 1920.

135,298. SPARK-PLUGS. PENN MFG. CO., Kansas City, Mo.
Filed March 26, 1920. Serial No. 130,235. PUBLISHED MAY 25, 1920.

135,299. ELECTRIC STORAGE BATTERIES. PERFECTION STORAGE BATTERY CO., Chicago, Ill.
Filed February 25, 1920. Serial No. 128,899. PUBLISHED JUNE 8, 1920.

135,300. UNITARY ELECTRIC-LIGHT PLANTS FOR ISOLATED OR FARM USE. PERFECTION STORAGE BATTERY CO., Chicago, Ill.
Filed February 25, 1920. Serial No. 128,900. PUBLISHED JUNE 8, 1920.

135,301. UNITARY ELECTRIC-LIGHT PLANTS FOR ISOLATED OR FARM USE. PERFECTION STORAGE BATTERY CO., Chicago, Ill.
Filed February 25, 1920. Serial No. 128,901. PUBLISHED MAY 25, 1920.

135,302. BUCKWHEAT PANCAKE-FLOUR, WHEAT CEREAL, PANCAKE-FLOUR, ROLLED OATS, AND HEALTH-BRAN. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed September 2, 1919. Serial No. 122,228; PUBLISHED JUNE 8, 1920.

135,303. MEDICINE FOR THE TREATMENT OF CERTAIN NAMED DISEASES. POMEROY AND COMPANY, Atlanta, Ga.
Filed January 13, 1920. Serial No. 127,097. PUBLISHED APRIL 27, 1920.

135,304. PAPER-PULP. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed February 11, 1920. Serial No. 128,275. PUBLISHED JUNE 1, 1920.

135,305. BOOTS AND SHOES OF LEATHER FOR MEN, WOMEN, AND CHILDREN. STEPHEN PUTNEY SHOE CO., Richmond, Va.
Filed October 31, 1919. Serial No. 124,419. PUBLISHED APRIL 27, 1920.

135,306. CLEANING MATERIAL PARTICULARLY FOR REMOVING GREASE-SPOTS, &c., FROM FABRICS OR OTHER MATERIAL. PYRENE MANUFACTURING COMPANY, New York, N. Y.
Filed October 23, 1919. Serial No. 124,122. PUBLISHED JUNE 8, 1920.

135,307. EDUCATIONAL APPLIANCE. MARCUS LUCIUS QUINN CONSERVATORY OF MUSIC, Boston, Mass.
Filed September 3, 1918. Serial No. 112,993. PUBLISHED JUNE 8, 1920.

135,308. ELECTRIC VACUUM-CLEANERS. THE RAMEY MFG. COMPANY, Columbus, Ohio.
Filed March 31, 1920. Serial No. 130,482. PUBLISHED MAY 25, 1920.

135,309. PIECE GOODS COMPOSED OF AN ADMIXTURE OF WOOL AND COTTON. EDWARD RIPLEY & SON, LTD., Bradford, England.
Filed September 9, 1919. Serial No. 122,497. PUBLISHED JUNE 15, 1920.

135,310. WHEAT-FLOUR. RIVERSIDE MILL COMPANY, Reno, Nev.
Filed November 18, 1919. Serial No. 125,060. PUBLISHED JUNE 8, 1920.

135,311. MARMALADE. JAMES ROBERTSON & SONS, PRESERVE MANUFACTURERS, LIMITED, Paisley, Scotland.
Filed December 11, 1919. Serial No. 125,858. PUBLISHED JUNE 8, 1920.

135,312. MEN'S AND WOMEN'S HOSIERY OF WOOL, COTTON, SILK, AND MIXTURES OF THE SAME. E. W. ROBISCHON INC., New York, N. Y.
Filed March 18, 1920. Serial No. 129,905. PUBLISHED MAY 25, 1920.

135,313. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 5, 1920. Serial No. 129,280. PUBLISHED JUNE 1, 1920.

135,314. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 5, 1920. Serial No. 129,281. PUBLISHED JUNE 1, 1920.

135,315. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 5, 1920. Serial No. 129,282. PUBLISHED JUNE 1, 1920.

135,316. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 5, 1920. Serial No. 129,283. PUBLISHED JUNE 1, 1920.

135,317. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 5, 1920. Serial No. 129,284. PUBLISHED JUNE 1, 1920.

135,318. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 5, 1920. Serial No. 129,285. PUBLISHED JUNE 1, 1920.

135,319. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 5, 1920. Serial No. 129,286. PUBLISHED JUNE 1, 1920.

135,320. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 6, 1920. Serial No. 129,346. PUBLISHED JUNE 1, 1920.

135,321. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 6, 1920. Serial No. 129,347. PUBLISHED JUNE 1, 1920.

135,322. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 6, 1920. Serial No. 129,348. PUBLISHED JUNE 1, 1920.

135,323. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 6, 1920. Serial No. 129,349. PUBLISHED JUNE 1, 1920.

135,324. ROSIN. ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga.
Filed March 6, 1920. Serial No. 129,350. PUBLISHED JUNE 1, 1920.

135,325. COTTON GOODS IN THE PIECE AND COTTON AND SILK GOODS IN THE PIECE. ROSSMAN BROTHERS, New York, N. Y.
Filed September 16, 1919. Serial No. 122,787. PUBLISHED JUNE 8, 1920.

135,326. DOLLS AND TOYS—VIZ. RUBBER ANIMALS AND RATTLES. SIG. I. ROTHSCHILD, New York, N. Y.
Filed November 18, 1919. Serial No. 125,063. PUBLISHED JUNE 8, 1920.

135,327. SHOE AND GLOVE LEATHERS—NAMELY, CALF, KIP, VEALS, SIDES, AND SPLITS. FRED RUEPING LEATHER CO., Fond du Lac, Wis.
Filed February 24, 1920. Serial No. 128,800. PUBLISHED MAY 25, 1920.

135,328. WATER-COOLER. THE SANIBRASS CORPORATION, Brooklyn, N. Y.
Filed January 17, 1920. Serial No. 127,264. PUBLISHED MAY 25, 1920.

135,329. METAL-WORKING GRINDING-MACHINES AND PARTS THEREOF. SAPHIL MANUFACTURING CORPORATION, Chicago, Ill.
Filed August 14, 1919. Serial No. 121,680. PUBLISHED JUNE 15, 1920.

135,330. MUSICAL-INSTRUMENT STRINGS. M. E. SCHOENING CO. INC., New York, N. Y.
Filed April 1, 1920. Serial No. 130,495. PUBLISHED JUNE 22, 1920.

135,331. MUSICAL-INSTRUMENT STRINGS. M. E. SCHOENING CO. INC., New York, N. Y.
Filed April 22, 1920. Serial No. 131,508. PUBLISHED JUNE 29, 1920.

135,332. OPTICAL APPARATUS FOR MAGNIFYING AND VIEWING STEREOSCOPIC, TRANSPARENT, AND PHOTOGRAPHIC PLATES. SCIENTIFIC MATERIALS COMPANY, Pittsburgh, Pa.
Filed August 30, 1919. Serial No. 122,190. PUBLISHED JUNE 8, 1920.

135,333. COD-LIVER OIL. SCOTT & BOWNE, Bloomfield, N. J.
Filed April 24, 1919. Serial No. 117,823. PUBLISHED MAY 25, 1920.

135,334. PADLOCKS, NIGHT-LATCHES. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed November 26, 1919. Serial No. 125,350. PUBLISHED MAY 25, 1920.

135,335. CANDY. SIOUX CANDY CO., Sioux City, Iowa.
Filed April 3, 1920. Serial No. 130,624. PUBLISHED JUNE 1, 1920.

135,336. OILS, FLUIDS, AND COMPOUNDS USED FOR WATERPROOFING TEXTILE FABRICS AND ACIDPROOFING FLUIDS. EDWARD L. SMITH, New York, N. Y.
Filed April 10, 1918. Serial No. 110,101. PUBLISHED MAY 25, 1920.

135,337. MEN'S SUITS. GEO. W. SMITH, McKinney, Tex.
Filed March 26, 1919. Serial No. 116,936. PUBLISHED MAY 25, 1920.

135,338. WRITING-INK IN POWDERED FORM. JOHN F. SOBY, New York, N. Y.
Filed February 17, 1920. Serial No. 128,529. PUBLISHED JUNE 1, 1920.

135,339. PREPARATIONS FOR DISEASES OF THE NOSE AND THROAT. EGBERT J. SORMANI, Brooklyn, N. Y.
Filed July 19, 1919. Serial No. 120,724. PUBLISHED MAY 25, 1920.

135,340. GRAPEFRUIT, PINEAPPLES, AND GRAPEFRUIT MARMALADE. SPANISH AMERICAN FRUIT COMPANY INC., Plainfield, N. J., and New York, N. Y.
Filed December 30, 1919. Serial No. 126,652. PUBLISHED JUNE 8, 1920.

135,341. WHEAT-FLOUR. SPOKANE MEELMOLENS (Spokane Flour Mills), Amsterdam, Holland, and Pendleton, Oreg.
Filed April 9, 1918. Serial No. 110,081. PUBLISHED JUNE 8, 1920.

135,342. LEATHER, FABRICS, AND COMBINATIONS OF LEATHER AND FABRIC BOOTS AND SHOES. STERLING SHOES CORPORATION, Buffalo, N. Y.
Filed February 27, 1920. Serial No. 128,982. PUBLISHED MAY 25, 1920.

135,343. CARBURETERS. SUNDERMAN CORPORATION, Newburgh, N. Y.
Filed April 2, 1919. Serial No. 117,128. PUBLISHED JUNE 15, 1920.

135,344. STOCK, DAIRY, AND POULTRY FEED. THE SUPERIOR FEED CO., Memphis, Tenn.
Filed January 30, 1920. Serial No. 127,787. PUBLISHED JULY 6, 1920.

135,345. MEDICINAL PREPARATION FOR THE TREATMENT OF COUGHS, CROUP, AND WHOOPING-COUGH. WINFIELD SCOTT TAYLOR, Trenton, N. J.
Filed April 2, 1920. Serial No. 130,558. PUBLISHED MAY 25, 1920.

135,346. DOLLS, FIGURE TOYS, RATTLES, CONSTRUCTION TOYS, BOWLING GAMES, SEESAWS, DUCK GAMES, TOY BUILDING-BLOCKS. THE TOY TINKERS, Evanston, Ill.
Filed December 10, 1919. Serial No. 125,813. PUBLISHED JUNE 8, 1920.

135,347. CORN-STARCH, RAISINS, SHREDDED COCOANUT, VINEGAR, CATSUP, JAMS, JELLIES, MUSTARD, AND CANNED VEGETABLES AND FRUITS—NAMELY, TOMATOES, CORN, PEAS, BEANS, VEGETABLES FOR SOUP, PEARS, AND PEACHES. TROY DRY GOODS CO. INC., Troy, N. Y.
Filed November 24, 1919. Serial No. 125,263. PUBLISHED JUNE 8, 1920.

135,348. HATS, CAPS, AND NECKWEAR. BENJAMIN TULCHINSKY, Chicago, Ill.
Filed December 24, 1919. Serial No. 126,429. PUBLISHED JUNE 8, 1920.

135,349. TALKING-BOARD OR QUESTION-ANSWERING DEVICE. CATHERINE C. TURNER, Spokane, Wash.
Filed August 9, 1919. Serial No. 121,490. PUBLISHED MAY 25, 1920.

135,350. CHILDREN'S TOY VEHICLES. THE U AND I TOY COMPANY, Lorain, Ohio.
Filed September 29, 1919. Serial No. 123,266. PUBLISHED FEBRUARY 3, 1920.

135,351. SEWING-MACHINE NEEDLES. UNION SPECIAL MACHINE COMPANY, Chicago, Ill.
Filed October 10, 1919. Serial No. 123,671. PUBLISHED JUNE 8, 1920.

135,352. GARTERS, HOSE-SUPPORTERS, ARMBANDS, AND SUSPENDERS. U. S. GARTER & SUSPENDER COMPANY, Chicago, Ill.
Filed September 25, 1919. Serial No. 123,144. PUBLISHED JUNE 8, 1920.

135,353. SLIPPERS MADE OF FELT, AND FELT AND LEATHER. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed December 22, 1919. Serial No. 126,337. PUBLISHED JUNE 8, 1920.

135,354. NIGHT-LIGHTS. UNITED STATES WAX CORPORATION, Brooklyn, N. Y.
Filed December 19, 1919. Serial No. 126,264. PUBLISHED JUNE 8, 1920.

135,355. GASOLENE-FILTERS. VISIBLE GASOLINE FILTER COMPANY, Chicago, Ill.
Filed December 29, 1919. Serial No. 126,600. PUBLISHED JUNE 1, 1920.

135,356. BLANKETS AND ROBES FOR OUTDOOR AND HOUSEHOLD USES OTHER THAN HORSE-BLANKETS. THE WALLACE & SMITH COMPANY, Laporte, Ind.
Filed July 11, 1919. Serial No. 120,469. PUBLISHED MAY 25, 1920.

135,357. MEN'S AND WOMEN'S KNIT, AND TEXTILE COATS, AND SWEATERS. GREENBAUM, WEIL & MICHELS, San Francisco, Calif.
Filed October 20, 1919. Serial No. 123,977. PUBLISHED JUNE 8, 1920.

135,358. CRACKERS, BISCUITS, CAKES, CRULLERS, PIES, COOKIES, CAKE, CHOCOLATE, CHEWING-GUM, AND CANDY. KEEBLER WEYL BAKING CO., Philadelphia, Pa.
Filed December 1, 1919. Serial No. 125,465. PUBLISHED JUNE 8, 1920.

135,359. UNITARY ELECTRIC-LIGHTING PLANTS AND PARTS THEREOF. HARRY M. WHITMAN, Canton, Pa.
Filed March 24, 1920. Serial No. 130,123. PUBLISHED JUNE 1, 1920.

135,360. JERSEY KNIT CLOTH IN THE PIECE. WILKIN & ADLER, New York, N. Y.
Filed March 15, 1920. Serial No. 129,768. PUBLISHED JUNE 1, 1920.

135,361. HAIR-TONIC. C. J. WILLIAMS, Chicago, Ill.
Filed August 20, 1919. Serial No. 121,854. PUBLISHED MAY 25, 1920.

135,362. WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF. ALBERT WISS, Peekskill, N. Y.
Filed September 24, 1919. Serial No. 123,089. PUBLISHED MAY 25, 1920.

135,363. AUTOMATIC SAND-OPERATED MECHANICAL TOYS AND TOY DISHES. WOLVERINE SUPPLY & MFG. CO., Pittsburgh, Pa.
Filed December 18, 1919. Serial No. 126,231. PUBLISHED JUNE 15, 1920.

135,364. LIQUID FUEL FOR INTERNAL-COMBUSTION ENGINES. GEORGE W. WOOLLEY, Pasadena, Calif.
Filed October 1, 1918. Serial No. 113,519. PUBLISHED MAY 27, 1919.

135,365. SLIPPERS. WORCESTER FELT GOODS COMPANY, Worcester, Mass.
Filed March 27, 1920. Serial No. 130,307. PUBLISHED JUNE 8, 1920.

135,366. CERTAIN NAMED ADHESIVES. DEWEY & ALMY CHEMICAL COMPANY, Cambridge, Mass.
Filed March 30, 1920. Serial No. 130,363. PUBLISHED JUNE 1, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

SEPTEMBER 28, 1920.

135,367. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BELMONT MOTORS CORPORATION, Harrisburg, Pa. Filed July 19, 1920. Serial No. 135,131.

Belmont

Particular description of goods.—Automobiles and Automobile-Trucks.
Claims use since Apr. 26, 1917.

135,368. (CLASS 39. CLOTHING.) DOROTHY DODD SHOE COMPANY, Boston, Mass. Filed July 23, 1920. Serial No. 135,319.

Gold Medal

Particular description of goods.—Boots, Shoes, and Slippers Made of Leather, Felt, Rubber, Silk, and Cloth, or other Fabric Construction.
Claims use since 1904.

135,369. (CLASS 39. CLOTHING.) EVERWEAR HOSIERY COMPANY, Milwaukee, Wis. Filed Jan. 8, 1920. Serial No. 126,924.

Everwear

Particular description of goods.—Hosiery.
Claims use since 1906.

135,370. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed June 25, 1919. Serial No. 119,940.

ALL-WEATHER

Particular description of goods.—Rubber and Rubber and Fabric Vehicle-Tires and Treads Therefor.
Claims use since July, 1916.

135,371. (CLASS 43. THREAD AND YARN.) H. E. LOCKE & COMPANY INC., Boston, Mass. Filed July 16, 1920. Serial No. 135,053.

LINCOLN

Particular description of goods.—Thread and Yarn.
Claims use since December, 1898.

135,372. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed Jan. 5, 1920. Serial No. 126,806.

NIPPON

Particular description of goods.—Leather.
Claims use since 1906.

135,373. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NUNNALLY COMPANY, Atlanta, Ga. Filed May 26, 1920. Serial No. 132,994.

Nunnallys

Particular description of goods.—Candy.
Claims use since 1914.

135,374. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACKAGE CONFECTIONERY COMPANY, Boston, Mass. Filed July 16, 1920. Serial No. 135,061.

BOSTON
PENNY ROLL

Particular description of goods.—Candy.
Claims use since Apr. 16, 1912.

135,875. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE TORRINGTON COMPANY, Torrington, Conn. Filed July 7, 1920. Serial No. 134,674.

Torrington

Particular description of goods.—Pedals for Bicycles, Tricycles, Motorcycles, and Motor-Tricycles.
Claims use since Jan. 29, 1919.

135,876. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WICHITA MOTORS COMPANY, Wichita Falls, Tex. Filed May 25, 1920. Serial No. 182,965.

WICHITA

Particular description of goods.—Tractors.
Claims use since Nov. 15, 1911.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

A. KIMBALL CO. *v.* NOESTING PIN TICKET CO.

Decided December 16, 1919.

[262 Fed. Rep., 148.]

1. PATENTS—ATTRIBUTES OF "INVENTION" STATED.
While patentable "invention" is not a term of legal art or capable of judicial definition, yet it is a means only, or the embodiment of the inventive idea, and merits the title, even if the want it meets is not apparent until some previous invention, imperfectly satisfying the more universal want, discloses the subordinate and narrower need.

2. SAME—PATENT FOR PIN-TICKET DEVICE VALID.
The Thompson patent, No. 1,252,862, for an improved pin-ticket device to be attached to textile and other articles offered for sale, *Held* valid against the contention that it did not disclose invention.

3. SAME—WHEN MECHANICAL SKILL BECOMES INVENTION STATED.
As a mechanic is one who applies his trade by rule or rote and only uses what he learned yesterday to do the work of to-day, it may become invention where a mechanic uses insight or foresight to comprehend a problem and uses even the learning of yesterday to do new things in a new way.

APPEAL from the District Court of the United States for the Southern District of New York.

Patent infringement suit by the A. Kimball Company against the Noesting Pin Ticket Company. Decree for plaintiff, and defendant appeals. Affirmed.

STATEMENT OF THE CASE.

Action is upon Patent 1,252,862, issued to Eugene W. Thompson January 8, 1918. The subject of invention is a "pin ticket," which means a card or tag intended to bear price marks or other descriptive matter, and affixed to articles offered for sale (usually textile), by means of a piece of wire, so formed as to present a staple whose prongs pass through both card and cloth; but the base of said wire staple is so formed and prolonged (at right angles to the staple-points) as to embrace (when bent) the conjoined edges of the pierced cloth and card. The staple ends are then also bent over or back against the rear face of the card.

Of the claims in suit, the sixth defines the invention in most general terms, and is as follows:

In a pin ticket having a plurality of round-pointed double-shank pins formed of a single piece of wire, the wire between said pins engaging with the ticket to form a support therefor, the shank of said pins passing through the ticket, and the free ends of the wire being bent to engage with both surfaces of the ticket to hold the pins in engagement therewith.

The seventh claim is not sufficiently different to require quotation. The court below found the patent valid and infringed; defendant appeals.

Mr. Cyrus N. Anderson and *Mr. Walter K. Earle* for the appellant.

Mr. Nathan Heard and *Mr. Abr. A. Silberberg* for the appellee.

Before WARD, ROGERS, and HOUGH, Circuit Judges.

HOUGH, *Cir. J.*, (after stating the facts as above:)

Appellant states that the only substantial question here presented is validity; *i. e.* can invention be found in this "pin ticket?"

We accept the statement, and shall endeavor to answer the query, without bolstering decision by dwelling on the presumption attaching to grant of letters, or the admitted fact that defendant controls and manufactures under another patent, over which priority was awarded Thompson after a protracted interference. Such proceedings assume a belief in validity on the part of both contestants. (*Roth* v. *Harris*, 168 Fed., 279; 93 C. C. A., 581.)

(1) Invention, as we are instructed by the highest court, is not judicially to be defined; *i. e.*, it cannot be determined as to limit of meaning. But many attributes may be marked. Thus patentable invention is a means only; it is the embodiment of the inventive idea (*Corrington* v. *Westinghouse, etc., Co.*, 178 Fed., 715; 103 C. C. A., 479); and even the smallest invention, if it merits the title, must meet an existing want, yet that want, invoking invention, may never be apparent until some previous invention, imperfectly satisfying the more universal want, discloses the subordinate and narrower need (1 Rob. on Pats., 134).

It is this thought that justifies, and indeed compels, study of the prior art, as distinguished from anticipatory patents or uses. To know, not only what the "more universal want" was, but how far and by what means it had been supplied, is a process not seldom resulting in the validation of modest inventions, and the destruction of many of great pretense.

This indicates that "invention" is not a term of legal art, like "common carrier" or "contingent remainder;" nor can applicability be fixed by consulting dictionaries, while reports furnish, not precedents, but only illustrations. What does connect

135,375. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE TORRINGTON COMPANY, Torrington, Conn. Filed July 7, 1920. Serial No. 134,674.

Torrington

Particular description of goods.—Pedals for Bicycles, Tricycles, Motorcycles, and Motor-Tricycles.
Claims use since Jan. 29, 1919.

135,376. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WICHITA MOTORS COMPANY, Wichita Falls, Tex. Filed May 25, 1920. Serial No. 132,965.

WICHITA

Particular description of goods.—Tractors.
Claims use since Nov. 15, 1911.

DECISIONS

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COMMISSIONER OF PATENTS

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Mr. Nathan Heard and *Mr. Abr. A. Silberberg* for the appellee.

Before WARD, ROGERS, and HOUGH, Circuit Judges.

HOUGH, *Cir. J.*, (after stating the facts as above:)

Appellant states that the only substantial question here presented is validity; *i. e.* can invention be found in this "pin ticket?"

We accept the statement, and shall endeavor to answer the query, without bolstering decision by dwelling on the presumption attaching to grant of letters, or the admitted fact that defendant controls and manufactures under another patent, over which priority was awarded Thompson after a protracted interference. Such proceedings assume a belief in validity on the part of both contestants. (*Roth* v. *Harris*, 168 Fed., 279; 93 C. C. A., 581.)

(1) Invention, as we are instructed by the highest court, is not judicially to be defined; *i. e.*, it cannot be determined as to limit of meaning. But many attributes may be marked. Thus patentable invention is a means only; it is the embodiment of the inventive idea (*Corrington* v. *Westinghouse, etc., Co.*, 178 Fed., 715; 103 C. C. A., 479); and even the smallest invention, if it merits the title, must meet an existing want, yet that want, invoking invention, may never be apparent until some previous invention, imperfectly satisfying the more universal want, discloses the subordinate and narrower need (1 Rob. on Pats., 134).

It is this thought that justifies, and indeed compels, study of the prior art, as distinguished from anticipatory patents or uses. To know, not only what the "more universal want" was, but how far and by what means it had been supplied, is a process not seldom resulting in the validation of modest inventions, and the destruction of many of great pretense.

This indicates that "invention" is not a term of legal art, like "common carrier" or "contingent remainder;" nor can applicability be fixed by consulting dictionaries, while reports furnish, not precedents, but only illustrations. What does connect

the large word with the perhaps small thing is evidence; and litigations like this become studies of facts, as varying in patent matters as in other human contests.

(2) This record shows that, trivial as the article seems (*e. g.*) to ourselves, pin-tickets have long been a widely-used trade adjunct; also that much effort has been expended to produce them cheaply in quantity, yet affixable to a fabric's edge firmly and with ease, without pricking the operator or injuring what is marked.

The "more universal want" has been and still is largely supplied by the "Empire ticket," made under an expired patent (St. John, 340,961). The substantial difference between that ticket and Thompson's device is that the prongs of the latter's staple are formed, not by cutting a wire transversely and making thereby a sharp point, but by doubling the wire back on itself and so producing a smooth, blunt point.

The Bayer reissue, 13,769, shows that making smooth-pointed pins by doubling a small wire on itself was known before Thompson; no more is claimed for it. But the tool which rapidly and cheaply makes staple-points by cutting wire may leave burs or roughened edges, which, though usually negligible, cut (*e. g.*) delicate silk.

Thus the "narrower need" is disclosed, and Thompson is confessedly the first to supply it. Others have tried to; probably Bayer did; but his pin could not hold its ticket firmly, and devices clutching or binding, but not piercing, the fabric, have been put on the market, but without covering the ground.

Here, then, is a want shown to have long existed among intelligent merchants, whose desires are always studied by equally intelligent manufacturers, and the question recurs whether to furnish the means of supplying that want is invention.

(3) It is, of course, urged, and naturally, that no more than a mechanic's skill was needed to take the final step. But a mechanic is one who applies his trade by rule or rote, and only uses what he learned yesterday to do the work of to-day in the same old manner. He may do it excellently, but if he has, not only hindsight, but insight or foresight, first to comprehend the problem and use even the learning of yesterday to do the new thing in a new way, that mechanic has usually earned the inventor's title.

This is what Thompson has done, if the matter be reasoned from the premises of evidence. It is, however, an important evidential element that the trade world to which this little device must appeal, whether of manufacturers or buyers, evidently regards it as important. That word is always relative, and courts and juries should learn its meaning from the evidence, and not their own emotions.

Thus guided by the evidence, we find as matter of fact that the patent discloses invention, and in so doing we arrive at a result not new in this court, and do it in substantially the same way as heretofore. (*George Frost Co.* v. *Cohn*, 119 Fed., 505; 56 C. C. A., 185; *David* v. *Harris*, 206 Fed., 902; 124 C. C. A., 477; *Barry* v. *Harpoon, etc., Co.*, 209 Fed. 207; 126 C. C. A., 301; *Fonseca* v. *Suarez*, 232 Fed., 155; 146 C. C. A., 347.)

The decree is affirmed, with costs.

U. S. Circuit Court of Appeals—First Circuit.

BACKSTAY MACHINE & LEATHER CO. *v.* HAMILTON.

Decided January 6, 1920.

[262 Fed. Rep., 411.]

1. PATENTS—ENTIRE PRIOR ART CONSIDERED ON APPEAL IN DETERMINING VALIDITY, REGARDLESS OF CLAIM IN LOWER COURT.
   Although appellant assigned as error that the court below erred in holding the patent in suit anticipated by a particular patent and lower court stated that no device except that particular patent embodied plaintiff's device, nevertheless the court on appeal will consider the entire prior art as disclosed by the whole record.
2. SAME—INVENTION FOR FINISHING-WELT ANTICIPATED.
   The Schemmel patent, No. 1,226,600, claims 1, 2, 5, and 6, of May 15, 1915, for a finishing-welt, *Held* invalid because anticipated.
3. SAME—INVENTION FOR FINISHING-WELT HELD INVALID.
   The Schemmel patent, No. 1,226,600, claims 3 and 4, of May 15, 1917, for a finishing-welt, is invalid because for a combination of the article claimed to have been invented with some other article which the inventor does not describe.
4. SAME—DESIGN FOR MOLDING OR WELT VOID FOR LACK OF INVENTION.
   The Schemmel design patent, No. 51,804, for a design for a molding or welt, *Held* void for lack of invention.

APPEALS from the District Court of the United States for the District of Massachusetts; George H. Bingham, judge.

Two patent infringement suits by the Backstay Machine & Leather Company against Helen Wade Hamilton. Decrees for defendant, and plaintiff appeals. Affirmed.

Mr. William E. Dyre (*Mr. Henry D. Williams* and *Mr. George K. Woodworth* on the brief) for the appellant.

Mr. W. Orison Underwood for the appellee.

PATENT appeals Nos. 1423 and 1424.

Before JOHNSON and ANDERSON, Circuit Judges, and ALDRICH, District Judge.

JOHNSON, *Cir. J.*:

These were appeals from the final decrees of the District Court of Massachusetts in two patent cases. In one the plaintiff alleged infringement of Patent No. 1,226,600, issued May 15, 1917, to R. C. Schemmel, for a finishing-welt, hereinafter referred to as the article patent; and in the other infringement of Patent No. 51,804, issued February 19, 1918, to R. C. Schemmel, for a "design for a molding or welt," hereinafter referred to as the design patent.

There were six claims in the article patent, all of which were in issue. Under claims 1, 2, 5, and 6 a patent was claimed for a welt or molding constructed so that two longitudinal, parallel beads superimposed close together upon a base could be separated, the base between them nailed, stitched or otherwise sewed, to any article to cover rough joints, and then the beads, because of their resiliency, made to assume their former positions, thus hiding the tacks, stitches, or other securing means.

In his application the patentee thus described his invention:

> My present invention pertains to the finishing of leather and analogous work as used on vehicles and in other connections; and it contemplates the provision of a finishing welt constructed and arranged with a view to being readily nailed, stitched or otherwise attached to the article by which it is carried in such manner that subsequently to the nailing, stitching or other attachment, the welt can be made to assume or assumes of itself such a state that the attaching means will be entirely hidden from view and the finished appearance of the work as a whole will be enhanced.

Claim 1 of the patent is as follows:

> As a new article of manufacture, a welt comprising a body, and longitudinal parallel beads superimposed on and connected with the body, the body being constructed and arranged to permit of the beads being spread apart and subsequently resuming their normal close-together positions, for the purpose set forth.

Claims 2, 5, and 6 were substantially like claim 1.

Claims 3 and 4 were for a combination of an article, without describing any particular article, and the welt described in claim 1 and "attaching means" by which the welt could be attached to the article.

The court below found claims 1, 2, 5, and 6 void for lack of invention and anticipated, and claims 3 and 4 invalid. The reason for the finding of the court in regard to the latter claims was stated as follows:

> It does not seem to me that the third and fourth claims are valid; the invention, if any, resides in the welt and cannot be held to extend to and include any and every article to which the welt may be attached.

The design patent was for "the ornamental design for a molding or welt as shown," the one "shown" being that described in the article patent. This was found void for lack of invention.

The errors assigned in the suit upon the article patent are:

> (1) The court erred in holding claims 1, 2, 5, and 6 void for lack of invention over Patent No. 221,801, issued November 18, 1879, to A. B. Felt.
> (2) The court erred in holding claims 3 and 4 void for the reason that the invention, if any, resides in the welt, and cannot be held to extend to and include any and every article to which the welt may be attached.
> (5) The court erred in dismissing the bill of complaint, with costs to the defendant.

The other errors assigned were that the court erred in finding that the claims of the patent in suit were not infringed.

In the suit upon the design patent the errors assigned were:

> (1) The court erred in holding the patent in suit void for lack of invention over the prior art offered in evidence by the defendant.
> (4) The court erred in dismissing the bill of complaint, with costs to the defendant.

Errors 2 and 3, not given, related to infringement.

(1) The appellee contends that the validity of the article patent is not open on appeal, because the appellant, in his assignment of errors, has set out as error, not the decision, but the reason of the court, given in his opinion, for finding that claims 1, 2, 5, and 6 are void for lack of invention.

It is true that the learned judge sitting in the district court states in his opinion:

> Moldings or welts of the character here under consideration pertain to the art of upholstering. Concealed tack moldings are old, and have been made in various forms; but none of the devices that have been called to my attention, with a single exception, have embodied the characteristics of the plaintiff's device. The exception to which I refer is the product of a machine upon which a patent was granted to Alvin B. Felt, November 18, 1879, in United States Letters Patent No. 221,801.

While the appellant has alleged that the court below erred in holding that the patent in suit was anticipated by the patent to Felt, and although it was said by that court in its opinion that no other devices called to its attention "embodied the characteristics of the plaintiff's device," we think, upon appeal, we are not confined to a consideration of the patent to Felt only, but that we should consider the prior art as disclosed by the whole record. (*Electric Gaslighting Co. et al.* v. *Fuller et al.*, 59 Fed., 1003; 8 C. C. A., 442; Walk. on Pats., 5th Ed., sec. 655; *Brown* v. *Piper*, 91 U. S., 37, 41; 23 L. Ed., 200; *Slawson* v. *Grand Street R. R. Co.*, 107 U. S., 649, 652; 2 Sup. Ct., 663; 27 L. Ed., 576.)

We find, upon referring to the opinion, that the court below took into consideration, in determining whether the patent in suit was anticipated, not only the patent to Felt, but also the fact that "concealed tack moldings are old and have been made in various forms." We are entirely satisfied with the conclusion reached and the reasons stated in the opinion, which we quote:

> In that patent (the patent to Felt) it states that the cording attachment for sewing machines for which he sought a patent related "to the manufacture and application of corded strips to various articles or fabrics," including "trimmings for dresses, for cording seams of military trousers or the edges of cushions, and for other purposes."
> The cording produced by this machine is shown in defendant's Exhibit 23 and plaintiff's Exhibit W. It discloses two parallel beads or cords superimposed upon a base and close together, only one of which is capable of being moved back from the other, and, on being released, resuming or tending to resume its normal or close position to the other bead or cord. To make this corded structure into a finished welt it would only be necessary to turn under and secure the edges of the base as shown in plaintiff's Exhibit B introduced in evidence. This would involve nothing more than the use of mechanical skill, and that not of a high order. Although in the article produced by the Felt machine only one of the cords is capable of being moved back in relation to the other, and on being released of resuming its normal position, while in the structure of the plaintiff's patent each cord is capable of being moved back and again resuming its normal position, this is due to the positioning of the cords or strips. The principle by which it is accomplished is the same in both, and is clearly shown in the Felt construction.
> The language of Judge Sanborn in considering a similar question in *Warren Webster & Co.* v. *Dunham Co.* (181 Fed., 836, 839; 104 C. C. A., 346, 349, seems to me applicable. He there said:
> "Where a machine or a combination is discovered in a remote art, where it is used to perform a different function, and where it was not designed and was not apparently suitable to accomplish the thing desired, the application of it with proper mechanical adaptation to a new use is often the result of the exercise of the inventive faculty and may be protected by patent. But the thought that an existing machine or combination, discovered in the same art or one nearly analogous to it, designed and suitable to perform a similar function, may be used or adopted to accomplish the desideratum, is not the product of inventive genius, but the result of the application of the skill of the mechanic to the subject under consideration. It is only when the new use is so recondite and remote from that to which the old device and combination has been applied, or for which it was conceived, that its application would not occur to the mind of the ordinary mechanic skilled in the art, seeking to devise means to perform the desired function, with the old machine or combination before him, that its conception may rise to the dignity of invention."

(2, 3) We therefore think there was no error in finding that claims 1, 2, 5, and 6 of the article patent lacked invention, because anticipated by the patent to Felt, and by the prior art as disclosed by the record; nor do we find that there was any error

in finding that the third and fourth claims were invalid. These claims are not for an article of manufacture, but for the combination of the article which the inventor claims to have invented with some other article which he does not describe, and we think the court correctly held that—

the invention, if any, resides in the welt, and cannot be held to extend to and include any and every article to which the welt may be attached.

(4) In considering the design patent the court below said:

The question presented, so far as the validity of the design patent is concerned, is whether the patentee in his article patent having conceived of a welt having a base with superimposed parallel beads or raised portions, mechanically constructed to function in a given manner, which may be of various shapes, and beads of some shape being essential to the functioning of the device, can be said to have exercised inventive thought of a character sufficient to warrant a design patent for a welt with beads or raised portions circular in cross section. It seems to me that to state the question is to answer it; that, having devised an article of manufacture with a base having parallel beads which may be of any suitable shape and beads of some shape being essential to constitute the article, it cannot be invention warranting a design patent to conclude that they should be round in cross section rather than some other suitable shape.

Furthermore, the use of beads or raised portions, circular in cross section, in connection with moldings, whether superimposed upon a base or not, is of such long standing that I cannot on the evidence regard the use made of them by the patentee in his design as disclosing inventive thought. (*Tubular Rivet & Stud Co.* v. *Standard Finding Co.*, 231 Fed., 170, 173; 145 C. C. A., 358.) The conclusion reached renders it unnecessary to consider whether the design patent was an attempt at double patenting or not.

We see no occasion for disagreeing with the finding involved in this statement, or for adding anything to the reasoning by which it is sustained.

In each case—

The decree of the district court is affirmed, with costs to the appellee in this court.

U. S. Circuit Court of Appeals—Seventh Circuit.

JAY *et al.* v. WEINBERG *et al.*

Decided April 29, 1919; rehearing denied December 5, 1919.

[262 Fed. Rep., 973.]

PATENTS—INVENTION—ANALOGOUS USE—VACUUM SUCTION DEVICE FOR AUTOMOBILES ANTICIPATED BY WATER-LIFTING DEVICES.

The Higginson and Arundel patent, No. 1,067,814, and the Jay patents, Nos. 1,132,273 and 1,134,457, for vacuum suction devices for raising gasolene in an automobile from a main tank below the level of the carbureter to a secondary tank, *Held* anticipated by prior devices for lifting water from a lower to a higher level, which is not an analogous but the same art.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Illinois.

Suit in equity by Webb Jay and the Stewart-Warner Speedometer Corporation against Frederick Weinberg and the Auto Parts Company. Decree for defendants, and complainants appeal. Affirmed.

For opinion below see 250 Fed., 469.

Mr. Charles Burton and *Mr. George L. Wilkinson* for the appellants.

Mr. R. A. Parker for the appellees.

Before BAKER, Circuit Judge, and LANDIS and ENGLISH, District Judges.

BAKER, *Cir. J.*:

This is an appeal from a final decree dismissing appellants' bill for infringement of the Higginson and Arundel patent, No. 1,067,814, and the Jay patents, Nos. 1,132,273 and 1,134,457, for vacuum suction means of raising gasolene in an automobile from a main tank below the level of the carbureter into a secondary tank from which gasolene flows to the carbureter by gravity.

(1) The trial court found that in the water-elevating art the principle of operation whereby a fluid is lifted by vacuum suction and discharged by gravity, and the general combinations of mechanical means for attaining the result, were old and well known long before appellants' patentees began their labors; that appellants' patentees, starting from this common ground, had made certain specific improvements which they were entitled to have protected; that the appellees, operating under Weinberg's patent, No. 1,229,360, had started from the same common ground and had made certain specific improvements; and that appellees' improvements do not overlap any of appellants'.

Consideration of the record, briefs, and oral argument, has led us to approve the findings of the trial court and the reasons therefor as expressed at length in *Jay* v. *Weinberg*, (D. C., 250 Fed., 469.)

The exigencies of the case have caused appellants to contend that—

the water-elevating art is too remote from the internal combustion engine art to warrant imputing knowledge of expedients in the former to persons engaged in the latter art.

No problem of the internal-combustion engine is present. To the gravity-fed carbureter it is immaterial where the feed-tank gets its supply. So appellants' insistence is that the art of elevating water from a lower to a higher reservoir is not analogous to the art of elevating gasolene from a lower to a higher reservoir. We agree that the arts are not analogous; they are identical.

(2) Where the general art has been developed by the pioneers, there is room for an adapter to have only a specific patent for his particular form of adaptation, and he is not privileged to exclude others from gleaning in the same open field. (*Loew Supply Co.* v. *Fred Miller Brewing Co.*, 138 Fed., 886; 71 C. C. A., 266.)

The decree is affirmed.

Changes in Classification.

(ORDER No. 2,603.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 9, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 55, Harrows and Diggers, (Division I,) establish subclasses—

Pivoted teeth—
153. Tooth with limited play,
154. Tooth-clamp adjustable.

The patents contained in these subclasses have been taken for the most part from class 287, Rod Joints or Couplings, subclasses 7, Harrow-tooth type, and 8, Harrow-tooth type, Tooth and bar, hereinafter abolished.

In class 56, Harvesters, (Division V,) establish the following subclasses and definitions:

Grain-cradles—
324.5. Connections.

Scythes—
Blades—
326.3. Connections—
326.4. Adjustable angle—
326.5. Side tang,
326.6. Nibs.

324.5. GRAIN-CRADLES, CONNECTIONS. Couplings peculiarly adapted for fastening the type of scythe used in grain-cradles to the snathes.

326.3. SCYTHES, BLADES, CONNECTIONS. Specialized for fastening scythes other than those used in cradles to the snathes.

326.4. SCYTHES, BLADES, CONNECTIONS, ADJUSTABLE ANGLE. Wherein the angle of the scythe to the snathe may be varied.

326.5. SCYTHES, BLADES, CONNECTIONS, ADJUSTABLE ANGLE, SIDE TANG. Shank or tang of the scythe having a projecting side lug seated in one of several cavities in the snathe.

326.6. SCYTHES, NIBS. Means for joining the nibs or handhold members to scythe-snathes or one member at right angles to another, after the manner of nib-couplings.

Note.—Compare class 279, CHUCKS OR SOCKETS, subclass 86, Socket type, Side detent, Single transverse bolt.

Note.—Compare class 287, ROD JOINTS OR COUPLINGS, subclass 54, Rigid angle-joints.

The patents contained in subclass 324.5 above have been taken for the most part from class 287, ROD JOINTS OR COUPLINGS, subclass 2, Cradle type, hereinafter abolished.

2. Cradle type,
3. Scythe type—
4. Adjustable angle—
5. Side tang.
6. Nib type,
7. Harrow-tooth type—
8. Tooth and bar.
11. Adjustable angle—
13. Arc connection,
Hinged—
15. Notched arc and detent,
16. Locking-pin,
17. Pivot-clamp,
18. Extension-tang,
19. Screw-clamp.
Rod to base, plate, or head—
22. Hinged,
Rod to base, plate, or head—
24. Handle to transverse tool-heads—
Platelike tool—
26. Socket integral with tool,
27. Resilient connection,
28. Socket in head—
29. Detachable bit—
30. Flat bit—
31. Plural,
32. Wedged-in handle—
33. Screw-actuated wedge,
34. Cap,
35. Cap,
36. Reinforcing-shield—
37. Integral with head,
Rod to base, plate, or head—
Handle to transverse tool-heads—
Socket in head—
38. Split,
39. Center rod,
40. Center bolt,
41. L connection,
42. Loop connection,
43. Y connection,
44. Integral tang,
45. Handle to platelike tool—
46. Trowel type—
47. Socket integral with tool.
Socket—
120. Integral with tool,
122. Spring-pressed detent.

The patents formerly contained in these subclasses have been placed for the most part in class 303, Tool-Handle Fastenings, hereinafter established, with the following exceptions: Those formerly contained in subclasses 2 to 6, inclusive, have been placed, respectively, in class 56, Harvesters, subclasses 324.5, Grain-cradles, Connections; 326.3, Scythes, Blades, Connections; 326.4, Scythes, Blades, Connections, Adjustable angle; 326.5, Scythes, Blades, Connections, Adjustable angle, Side tang, and 326.6, Scythes, Nibs, hereinbefore established, and those formerly contained in subclasses 7 and 8 have been placed for the most part in class 55, Harrows and Diggers, subclasses 153, Pivoted teeth, Tooth with limited play, and 154, Pivoted teeth, Tooth-clamp adjustable, hereinbefore established, and subclasses 94, Harrow-teeth, Spike, Clamped; 95, Harrow-teeth, Spike, Nutted; 96, Harrow-teeth, Spike, Wedged, and 97, Harrow-teeth, Spring, Sectional.

(Note.—Attention is called to the fact that subclass title 11, Adjustable angle, above abolished, still controls and those contained in subclasses 326.3, 326.4, 326.5, and 326.6 have been taken for the most part from class 287, ROD JOINTS OR COUPLINGS, subclasses 3, Scythe type; 4, Scythe type, Adjustable angle; 5, Scythe type, Adjustable angle, Side tang, and 6, Nib type, hereinafter abolished, respectively.

In class 279, CHUCKS OR SOCKETS, (Division XXIX,) abolish the following subclasses, with their definitions:

Socket type—
10. For plural tangs—
11. Forks,
13. Flat bits,
Multiple alternative—
15. End and side sockets,
88. Transverse,
92. Tang with transverse bar,
Transverse pin—
98. Pump-rod type.

The patents formerly contained in these subclasses have been placed for the most part in class 306, Tool-Handle Fastenings, hereinafter established, with the exception of those in subclass 98, which have been placed for the most part in class 287, Rod Joints or Couplings, subclass 58, Adjustable length.

In class 287, Rod Joints or Couplings, (Division XXIX,) abolish the following subclasses, with their definitions:

two subclasses indented thereunder—viz., 12, Ball and socket, and 14, Hinged.)

In class 287, Rod Joints or Couplings, (Division XXIX,) change the title of subclass 25, Rod to base, plate, or head, Handle to transverse tool-heads, Platelike tool, to read:

Rod to base, plate, or head—
25. Platelike body,

abolish the existing definition, and establish in lieu thereof the following definition:

25. ROD TO BASE, PLATE, OR HEAD, PLATELIKE BODY. The rod connected to a platelike body the plane of which is transverse the axis of the rod.

Note.—Compare this class, subclass 23.

Establish, in Division XXIX, class 306, Tool-Handle Fastenings, with the following subclasses and definitions, the patents contained in this class having been taken for the most part from the subclasses hereinbefore abolished in classes 279, Chucks or Sockets, and 287, Rod Joints or Couplings:

306.—TOOL-HANDLE FASTENINGS.
1. Miscellaneous.
2. Adjustable angle—
Pivoted—
3. Swiveled,
4. Bracing-bar,
5. Wedge or cam,
6. Multiple seat or socket,
7. Ball and socket—
8. Clamping-cheeks,
9. Radial screw,
10. Arc-shank connection,
11. Hinged—
12. Notched arc and detent—
13. Spring-actuated,
14. Locking-pin,
15. Screw-clamp,
16. Pivot-clamp—
17. Positive lock,
18. Locking-tang.

306.—TOOL-HANDLE FASTENINGS—Continued.
19. Hinged, freely swinging,
20. Resilient connection.
Rigid—
21. Tool end partial socket,
22. Socket attached—
23. Stud-and-slot interlock,
24. Welded, riveted, or bolted,
25. Interleaving,
26. Separate clamp,
27. Recess-seated,
Socket—
28. Movable detent,
29. Expanded or contracted part,
30. Screw,
31. End, integral,
32. Intermediate, transverse tool,

306.—TOOL-HANDLE FASTENINGS—Continued.
Rigid—
Socket—
33. Wedge—
34. Screw-actuated.
35. Headed securing rod or plate,
36. Headed securing rod and shield,
37. Reinforcing-shield,
38. Through securing-rod,
39. Split or divided head,
40. Loop or yoke connection,
41. Integral tang,
42. Handle and bit holder—
43. Interlocked bit and handle,
44. Trowel type,
45. Plural tangs, fork type.

R. F. WHITEHEAD, *Commissioner.*

Changes in Classification.

(ORDER No. 2,604.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 9, 1920.

It is hereby directed that class 287, Rod Joints or Couplings, be transferred from Division XXIX to Division XXXIX, to take effect immediately.

R. F. WHITEHEAD,
Commissioner.

Changes in Classification.

(ORDER No. 2,606.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 16, 1920.

The transfer of class 91, Coating, from Division XV to Division XVII is hereby directed, to take effect immediately.

R. F. WHITEHEAD,
Commissioner.

Changes in Classification.

(ORDER No. 2,607.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 18, 1920.

The following changes in the classification of inventions are hereby directed to take effect immediately:

In class 74, Machine Elements, (Division XLVII,) abolish subclass—

Machine-brakes—
46. Stop mechanisms.

The patents formerly contained in this subclass have been placed in class 192, Clutches and Power-Stop Control, subclass 116, Stop mechanisms, hereinafter established.

In class 192, Clutches and Power-Stop Control, (Division XLVII,) establish the following subclass and definition—

116. Stop mechanisms.

116. STOP MECHANISMS. Various mechanisms, usually automatic in operation, for stopping a machine when a predetermined result is reached or some part of the machine fails to function or when an operator's position renders him liable to injury.

The patents contained in this subclass have been taken from class 74, Machine Elements, subclass 46, Machine-brakes, Stop mechanisms, hereinbefore abolished.

In class 192, Clutches and Power-Stop Control, (Division XLVII,) in the sixth line of the class definition, change the words "does not include" to read *includes*, and cancel the last sentence of the definition.

R. F. WHITEHEAD,
Commissioner.

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SEPTEMBER, 1920.

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DIGEST

OF THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

SEPTEMBER, 1920.

[Decisions of the Court of Appeals of the District of Columbia are indicated by one star (*), and of the United States Circuit Court of Appeals by the letter [4.]

ABANDONMENT OF INVENTION.

ALLEGED BURDEN OF PROOF.

In an interference proceeding one asserting the abandonment of the invention by another party has the burden of proving it, and where the only evidence relied upon is a delay of ten months after reduction to practice in filing the application for patent the burden is not sustained where the delay is explained by evidence of financial embarrassment. [*Hoenig v. Parker, 367.

AGGREGATION.

See Patentability, 3.

ANALOGOUS USE.

See Construction of Specifications and Patents, 2; Patentability, 1.

ANTICIPATION.

See Construction of Specifications and Patents, 2; Particular Patents 1, 3; Validity of Patents.

APPEAL.

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BURDEN OF PROOF.

See Abandonment of Invention; Interference, 1.

CLASS OF MERCHANDISE.

See Trade-Marks, 1.

COMBINATION.

See Invention, 1; Particular Patents, 1, 4.

CONFUSION OF THE PUBLIC.

See Trade-Marks, 1.

CONSTRUCTION OF CLAIMS.

See Construction of Specifications and Patents, 1; Designs; Particular Patents, 3, 4.

CONSTRUCTION OF SPECIFICATIONS AND PATENTS.

See Invention, 1; Particular Patents.

1. CONSTRUCTION—"ADJUSTABLE."

The Callahan patent, No. 948,719, for an apparatus for elevating and distributing wet concrete to the floors of buildings under construction, claim 5, the phrase "said boom being adjustably connected with the tower and adapted to be arranged at various points in the height thereof" construed in accordance with the apparent intention of the draftsman to refer to the vertical change of the boom on the tower, which was effected by taking out bolts and bolting it again to a new position, although such is not adjustability in the most precise definition.

[4 Concrete Appliances Co. *et al. v.* Meinken *et al.*, 163.

2. INVENTION—ANALOGOUS USE—VACUUM SUCTION DEVICE FOR AUTOMOBILES ANTICIPATED BY WATER-LIFTING DEVICES.

The Higginson and Arundel patent, No. 1,067,814, and the Jay patents, Nos. 1,132,273 and 1,134,457, for vacuum suction devices for raising gasolene in an automobile from a main tank below the level of the carbureter to a secondary tank, *Held* anticipated by prior devices for lifting water from a lower to a higher level, which is not an analogous but the same art.

[4 Jay *et al. v. Weinberg et al.*, 712.

DELAY IN FILING APPLICATIONS.

See Abandonment of Invention.

DESIGNS.

See Infringement; Particular Patents, 2, 5, 7.

ENTITLED TO EQUIVALENTS RESPECTING NON-ESSENTIAL DETAILS.

A design patent for a doll entitles the holder to the usual range of equivalents with respect to known prior unessential details, and though the patent drawings show a doll with a cap the figure shown is included within the claim of the patent, whether the doll is provided with painted hair, real hair, bathing-cap, or military or naval cap or any other standard form of head-dress.

[4 Geo. Borgfeldt & Co. *et al. v.* Weiss, 545.

DILIGENCE.

See Priority of Invention.

DISCLOSURE OF INVENTION.

See Particular Patents, 7.

DRAWINGS.

See Designs.

EARLIER AND LATER APPLICATIONS.

See Validity of Patents, 1.

ELEMENTS.

See Invention, 1.

ERROR.

See Validity of Patents, 2.

EQUIVALENTS.

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EVIDENCE.

See Abandonment of Invention; Interference, 2.

FIRST AND ORIGINAL INVENTOR.

See Priority of Invention.

IDENTITY OF DESIGNS.

See Infringement, 2.

IDENTITY OF TRADE-MARKS.

See Trade-Marks, 2.

INADVERTENTLY-GRANTED PATENT.

See Interference.

INFRINGEMENT.

See Particular Patents, 2.

1. DESIGN PATENT DEPENDS ON IMPRESSION PRODUCED ON PURCHASERS.
The question of infringement of a design patent for a doll is a question as to the impression produced on would-be purchasers.
[d Geo. Borgfeldt & Co. *et al. v.* Weiss, 545.

2. TEST OF DESIGN.
Infringement of a design patent for a doll turns upon whether there is identity of appearance, whether the effect produced upon the eye is the same, and whether there is substantial identity of design, and the persons to be deceived are not experts, but ordinary observers, giving such attention to the matter as purchasers usually give. [* Id.

INTERFERENCE.

See Abandonment of Invention; Priority of Invention; Reduction to Practice.

1. BURDEN OF PROOF—INADVERTENTLY-GRANTED PATENT.
In an interference between an inadvertently-granted patent and an application filed jointly by the patentee and another prior to the filing of the application on which the patent was granted the burden of proof is heavily upon the patentee.
[* Lambert *v.* Hope and Lambert, 369.

2. EVIDENCE OF JOINT OR SOLE INVENTORSHIP.
In an interference between Lambert, whose patent was inadvertently granted during the pendency of an application filed jointly by him and Hope, evidence considered and *Held* that it failed to sustain Lambert's contention that he was the sole inventor. [* Id.

INVENTION.

See Construction of Specifications and Patents, 2; Particular Patents, 1, 2, 5, 6, 7; Validity of Patents, 1.

1. TEST—"NEW RESULT."
"The test of the presence of invention in a new assembly of old elements is sometimes said to be whether a new result is accomplished. This is often not a helpful rule, because its application involves definition of the phrase 'new result,' and this opens the original difficulty. Within a narrow definition, every new combination of old elements gets a new result; but this is not the sense in which the phrase is rightly used as indicative of invention."
[d Concrete Appliances Co. *et al. v.* Meinken *et al.*, 163.

2. ATTRIBUTES STATED.
While patentable "invention" is not a term of legal art or capable of judicial definition, yet it is a means only, or the embodiment of the inventive idea, and merits the title, even if the want it meets is not apparent until some previous invention, imperfectly satisfying the more universal want, discloses the subordinate and narrower need.
[d A. Kimball Co. *v.* Noesting Pin Ticket Co., 709.

3. MECHANICAL SKILL—STATED.
As a mechanic is one who applies his trade by rule or rote and only uses what he learned yesterday to do the work of to-day, it may become invention where a mechanic uses insight or foresight to comprehend a problem and uses even the learning of yesterday to do new things in a new way. [d Id.

JOINT AND SOLE INVENTORS.

See Interference.

LIMITATION OF PATENT.

See Particular Patents, 6.

MECHANICAL SKILL.

See Invention, 3.

NEW RESULTS.

See Construction of Specifications and Patents, 2; Invention, 1; Patentability, 2.

PARTICULAR PATENTS.

1. CALLAHAN—NO. 948,719—DEVICE FOR DISTRIBUTING WET CONCRETE—VALID—NOT ANTICIPATED.
The Callahan patent, No. 948,719, for an apparatus for distributing wet concrete, consisting of an elevating-tower and devices for spreading same over structure, though a combination, *Held* to show invention and not to have been anticipated.
[d Concrete Appliances Co. *et al. v.* Meinken *et al.*, 163.

2. PFEFFER—NO. 51,559—DOLL—VALID—INFRINGED.
The Pfeffer design patent, No. 51,559, for a doll, *Held* valid and infringed.
[d Geo. Borgfeldt & Co. *et al. v.* Weiss, 545.

3. SCHEMMEL—NO. 1,226,600—FINISHING-WELT—ANTICIPATED.
The Schemmel patent, No. 1,226,600, claims 1, 2, 5, and 6, of May 15, 1915, for a finishing-welt *Held* invalid because anticipated.
[d Backstay Machine & Leather Co. *v.* Hamilton, 710.]

4. SAME—SAME—FINISHING-WELT—INVALID.
The Schemmel patent, No. 1,226,600, claims 3 and 4, of May 15, 1917, for a finishing-welt, is invalid because for a combination of the article claimed to have been invented with some other article which the inventor does not describe. [d Id.

5. SAME—DESIGN—NO. 51,804—MOLDING OR WELT—VOID FOR LACK OF INVENTION.
The Schemmel design patent, No. 51,804, for a design for a molding or welt, *Held* void for lack of invention. [d Id.

6. SMITH—NO. 948,746—APPARATUS FOR DISTRIBUTING WET CONCRETE—INVALID FOR LACK OF INVENTION.
The Smith patent, No. 948,746, for an apparatus for distributing wet concrete, as limited by the prior Callahan patent, No. 948,719, *Held* not to show invention.
[d Concrete Appliances Co. *et al. v.* Meinken *et al.*, 163.

7. THOMPSON — NO. 1,252,862 — PIN-TICKET DEVICE — VALID.
The Thompson patent, No. 1,252,862, for an improved pin-ticket device to be attached to textile and other articles offered for sale, *Held* valid against the contention that it did not disclose invention.
[d A. Kimball Co. *v.* Noesting Pin Ticket Co., 709.

PATENTABILITY.

See Invention.

1. ANALOGOUS USE.
Apparatus for elevating and distributing wet concrete *Held* not a mere double use of earlier apparatus for loading coal.
[d Concrete Appliances Co. *et al. v.* Meinken *et al.*, 163.

2. NEW RESULT.
The elevation and gravity distribution of wet concrete to and around the successive floors of a building being constructed and all in a semi-automatic way is a new result in a patentable sense. [d Id.

3. AGGREGATION.
Apparatus for elevating and distributing wet concrete to the floors of buildings under construction, which is in a fair sense a unitary work, does not become an aggregation merely because it involves successive steps under manual control. [d Id.

PRIOR PATENTS.

Construction of Specification and Patents, 2; See Particular Patents, 1

PRIORITY OF INVENTION.

INTERFERENCE.
In an interference between H. and K. priority of invention awarded to H. on the ground that he was the first to conceive and was diligent up to the time of his reduction to practice. [* Hoenig *v.* Kendig, 545.

PUBLICATION.

See Validity of Patents, 1.

REDUCTION TO PRACTICE

See Abandonment of Invention; Priority of Invention.

INTERFERENCE—SIMPLE DEVICE.
A two-part insulation having means for holding the parts in assembled relationship is of such a simple nature that it needed no test to show that it would do what was claimed for it. [* Hoenig *v.* Parker, 367.

REGISTRATION OF TRADE-MARKS.

See Trade-Marks.

SIMILARITY OF TRADE-MARKS.

See Trade-Marks, 1.

STATE OF THE ART.

See Validity of Patents.

TERMINOLOGY.

See Construction of Specifications and Patents, 1.

TEST.

See Infringement, 2; Invention, 1; Reduction to Practice.

TRADE-MARKS.

1. SIMILARITY—"ESCO" AND "CRISCO."
The mark "Esco" is so similar to "Crisco" as to be likely to cause confusion when used on substantially identical goods.
[* The Procter and Gamble Company *v.* Eney Shortening Company, 369.

2. SAME—ORIGIN HAS NO BEARING ON QUESTION OF IDENTITY.
That a mark is made up of the initials of the corporation applying for registration with the termination "Co." has no bearing on the question of its identity with another mark. [* Id.

VALID PATENTS.

See Particular Patents, 1, 2, 7.

VALIDITY OF PATENTS.

1. AFFECTED BY PRIOR APPLICATION FOR ANOTHER PATENT.
A patent applied for after filing of application for but before issue of another patent in the same art should, as to anticipation and the presence of invention, be judged upon the basis of which the earlier application is a part, though it was not a part of the prior art in the sense in which that phrase is used with reference only to publication.
[d Concrete Appliances Co. *et al. v.* Meinken *et al.*, 163.

2. ENTIRE PRIOR ART CONSIDERED ON APPEAL.
Although appellant assigned as error that the court below erred in holding the patent in suit anticipated by a particular patent and lower court stated that no device except that particular patent embodied plaintiff's device, nevertheless the court on appeal will consider the entire prior art as disclosed by the whole record.
[d Backstay Machine & Leather Co. *v.* Hamilton, 710.

VOID PATENTS.

See Particular Patents, 3, 4, 5, 6.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 7TH DAY OF SEPTEMBER, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aarts, Jacobus G., Dongen, near Breda, Netherlands. Furnace. No. 1,352,338; Sept. 7; v. 278; p. 120.
Adcock, R. C., *et al.* (See Swatzell, David N., assignor.)
Agrillo, Giuseppe, Brooklyn, N. Y. Bottle-filler. No. 1,352,165; Sept. 7; v. 278; p. 87.
Ahlm, Charles E. F., Cleveland Heights, Ohio. Battery-charging and starting system for automobiles. No. 1,352,166; Sept. 7; v. 278; p. 87.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and pumping system. (Reissue.) No. 14,946; Sept. 7; v. 278; p. 135.
Aktiebolaget Svenska Kullagerfabriken. (See Bråkenhielm, Carl A. R., assignor.)
Allen, Charles J., *et al.*, executors. (See Allen, Samuel L.)
Allen, Edward A., Portland, Me. Electrolytic cell. No. 1,351,886; Sept. 7; v. 278; p. 35.
Allen, Elizabeth R., *et al.*, executors. (See Allen, Samuel L.)
Allen, Howard G., Albion, N. Y. Spring-motor. No. 1,351,727; Sept. 7; v. 278; p. 3.
Allen, Lewis H., West Springfield, Mass. Safety-razor. No. 1,351,826; Sept. 7; v. 278; p. 22.
Allen, Samuel L., deceased, Moorestown, N. J.; S. H. Allen, C. J. Allen, E. R. Allen, S. J. Allen, and E. A. Elfreth, executors. Nutcracker. No. 1,351,983; Sept. 7; v. 278; p. 54.
Allen, Samuel L., deceased, Moorestown, N. J. S. H. Allen, C. J. Allen, E. R. Allen, S. J. Allen, and E. A. Elfreth, executors. Agricultural implement. No. 1,351,984; Sept. 7; v. 278; p. 54.
Allen, Sarah H., *et al.*, executors. (See Allen, Samuel L.)
Allen, Susan J., *et al.*, executors. (See Allen, Samuel L.)
Allen, William M., assignor of one-fourth to Richard B. Runke, Merrill, Wis. Spring-winding mechanism for phonographs. No. 1,351,938; Sept. 7; v. 278; p. 45.
Alldredge, Francis B., Des Moines, Iowa. Combined worm and lever steering-gear device. No. 1,351,937; Sept. 7; v. 278; p. 45.
Aluminum Castings Company, The. (See Jeffries, Z., and Gibson, assignors.)
Aluminum Castings Company, The. (See Stay, Theron D., assignor.)
American Blower Company. (See Szekely, Ernest, assignor.)
American Briquet Company. (See Plummer, Robert S., assignor.)
American Can Company. (See Doyle, J., and Kenny, assignors.)
American Can Company. (See Freundt, Louis J., assignor.)
American Can Company. (See Gray, James A., assignor.)
American Smelting & Refining Company. (See Cameron, F. K., Cullen, and Hyde, assignors.)
American Telephone and Telegraph Company. (See Fish, Lewin B., assignor.)
American Telephone and Telegraph Company. (See Mills, John, assignor.)
American Tool Works Company, The. (See Sosa, A. M., Robinson, and Schatz, assignors.)
American Vulcanized Fibre Co. (See Pierce, James F., assignor.)
Ames, Butler, Lowell, Mass. Electric horn. No. 1,351,729; Sept. 7; v. 278; p. 3.
Anderegg, George, assignor of one-half to R. C. Tarrant, Sheridan, Wyo. Chain tightener and lock. No. 1,352,339; Sept. 7; v. 278; p. 120.
Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
Anderson, Harry T., Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Manufacture of yokes for railway draft-gears. No. 1,352,167; Sept. 7; v. 278; p. 87.
Andrea, Frank E. (See Jefferson, Daniel H., assignor.)
Andresen, Halvor, assignor to The Vacuum Muffler Corporation, New York, N. Y. Muffler. No. 1,351,985; Sept. 7; v. 278; p. 54.
André, Paul, Le Val d'Ajol, France. Shearing and mowing machine. No. 1,351,929; Sept. 7; v. 278; p. 45.
Andrews, Morrill V., and S. W. Holman, Marmarth, N. D. Water-motor pump. No. 1,352,237; Sept. 7; v. 278; p. 101.
App, Casper J., Lynchburg, Va. Writing implement. No. 1,352,340; Sept. 7; v. 278; p. 120.
Arthur, Ernest L., Pembroke, Va. Automobile-tire-chain holder. No. 1,352,238; Sept. 7; v. 278; p. 101.
Arthur, Kemp B., Norfolk, Va. Oyster-shucking knife. No. 1,352,108; Sept. 7; v. 278; p. 76.
Auerbach, Julia H., Los Angeles, Calif. Corset-fastening. No. 1,351,728; Sept. 7; v. 278; p. 3.
Auto-Ordnance Corporation. (See Payne, Oscar V., assignor.)
Automatic Electric Company. (See Powell, Winfred T., assignor.)
Automatic Electric Company. (See Schwartz, Michael, assignor.)
Ayling, Robert W., West New York, N. J. Butting-tool; No. 1,352,341; Sept. 7; v. 278; p. 120.
Bachrach, Leopold, New York, N. Y. Card-index directory. No. 1,351,730; Sept. 7; v. 278; p. 3.
Bachmann, Albert W., Laporte, Ind. Union-ferrule. No. 1,352,342; Sept. 7; v. 278; p. 120.
Bagnell, Christopher C., assignor to M. H. Bagnell, Duluth, Minn. Pulling-drum. No. 1,351,887; Sept. 7; v. 278; p. 35.
Bagnell, Mary H. (See Bagnell, Christopher C., assignor.)
Bailey, James, assignor to Corning Glass Works, Corning, N. Y. Machine for finishing blown-glass articles. No. 1,352,396; Sept. 7; v. 278; p. 130.
Baird, Edward P., Evanston, assignor to Chicago Cabinet Lock Company, Chicago, Ill. Lock. No. 1,352,239; Sept. 7; v. 278; p. 101.
Baker, Alfred Z., Newark, N. J. Toy aeroplane. No. 1,352,343; Sept. 7; v. 278; p. 121.
Baldwin, Alfred S., Syracuse, N. Y. Vehicle-wheel. No. 1,352,168; Sept. 7; v. 278; p. 87.
Baldwin, Frederick M., Los Angeles, Calif. Oilcloth-cutting machine. No. 1,352,240; Sept. 7; v. 278; p. 101.
Baldwin, Frederick M., Bishop, Calif. Oilcloth display-rack and cutting-table. No. 1,352,397; Sept. 7; v. 278; p. 130.
Baldwin, Murray, Brookline, Mass. Elbow-protector. No. 1,351,731; Sept. 7; v. 278; p. 3.
Ball, Albert, Claremont, N. H., assignor by mesne assignments to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,352,169; Sept. 7; v. 278; p. 88.
Ballou, Marcus H., Pittsburgh, Pa. Tape attachment. (Reissue.) No. 14,947; Sept. 7; v. 278; p. 135.
Barclay, Halmar V., New York, N. Y. Hot appliance. No. 1,351,986; Sept. 7; v. 278; p. 54.
Barker, Charles J., Columbus, Ohio. Window-screen. No. 1,351,732; Sept. 7; v. 278; p. 4.
Barker, F. R., Boston, and W. R. Soper, Lynn, Mass. Measuring-machine. No. 1,351,732; Sept. 7; v. 278; p. 3.
Barker, George P., and O. E. Underwood, Indianapolis, Ind. Safety apparatus for elevators. No. 1,351,827; Sept. 7; v. 278; p. 22.
Barnes, Philip E. (See Laughton, R. E., and Barnes.)
Barrington, Fred G., Venice, Calif. Fire-escape. No. 1,351,734; Sept. 7; v. 278; p. 4.
Barro, Anthony F., assignor of one-half to A. A. Dibblee, New York, N. Y. Razor-blade holder. No. 1,351,987; Sept. 7; v. 278; p. 54.
Bartuzel, Jan, Youngstown, Ohio. Newspaper-holder. No. 1,352,398; Sept. 7; v. 278; p. 131.
Baruch Electric Controller Corporation. (See Baruch, Sidney N., assignor.)
Baruch, Sydney N., assignor to Baruch Electric Controller Corporation, San Francisco, Calif. Electric-circuit protector. No. 1,352,044; Sept. 7; v. 278; p. 64.
Batchelder, Frank R. (See Jennings, Victor H., assignor.)
Batchelor, Horton, Boston, Mass. Generating gas. No. 1,352,241; Sept. 7; v. 278; p. 102.
Baxter, Arthur G., Wabana, Bell Isle, Newfoundland. Poison-bottle indicator. No. 1,352,344; Sept. 7; v. 278; p. 121.
Baxter, William C., Beverly, Mass., assignor by mesne assignments to United Shoe Machinery Corporation, Paterson, N. J. Sole-leveling machine. No. 1,351,735; Sept. 7; v. 278; p. 4.

Bear, Claude A., assignor of two-ninths to G. P. Fox, Albany, two-ninths to A. McGary, New York, N. Y., and two-ninths to G. R. Berger, Chicago, Ill. Door-fastener. No. 1,351,736; Sept. 7; v. 278; p. 4.
Becker, Irvine N., Kaufman, Tex. Block or follower for baling-presses. No. 1,352,845; Sept. 7; v. 278; p. 121.
Begas, Carl L., Brooklyn, N. Y. Electrical testing device. No. 1,351,988; Sept. 7; v. 278; p. 55.
Beidler, George C., Rochester, N. Y. Roll-film-developing apparatus. No. 1,352,109; Sept. 7; v. 278; p. 76.
Bell, John H., South Orange, N. J., assignor to Western Electric Company, Inc., New York, N. Y. Telegraph system. No. 1,351,989; Sept. 7; v. 278; p. 55.
Benjamin, Emanuel V., New Orleans, La. Connecting means for bale-bands. No. 1,351,991; Sept. 7; v. 278; p. 55.
Benson, Matthew P., Troy, and M. M. Wiener, New York, N. Y. Brush-hanger and pad-remover. No. 1,352,346; Sept. 7; v. 278; p. 121.
Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company. Wireless receiving apparatus. No. 1,352,242; Sept. 7; v. 278; p. 102.
Bergey, Aaron E., Bazetta township, Trumbull county, Ohio. Mechanism for driving tools. No. 1,352,045; Sept. 7; v. 278; p. 64.
Bergor, George R., *et al.* (See Bear, Claude A., assignor.)
Beudet, Maurice, Lyon, assignor to Societe Chimique des Usines du Rhone, Anciennement Gilliard, P. Monnet et Cartier, Paris, France. Manufacture of ethylidene diacetate. No. 1,351,990; Sept. 7; v. 278; p. 55.
Biggs-Watterson Co., The. (See Wertman, Milton A., assignor.)
Bijur Motor Appliance Company. (See Hirsch, Morris, assignor.)
Bisbing, Charles F. (See Weinberg, I. H., and Bisbing.)
Bishop, Ashley L., Bristol, assignor to The Steel Products Company, Hartford, Conn. Fastening device. No. 1,352,243; Sept. 7; v. 278; p. 102.
Black, Frederick H., Pittsburgh, Pa. Message-interpreting device. No. 1,352,046; Sept. 7; v. 278; p. 65.
Blake, David C., Durham, N. C. Screen-door and window construction. No. 1,351,940; Sept. 7; v. 278; p. 45.
Blatz, Frederick J., Wilmington, Del., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Dampening leather. No. 1,352,244; Sept. 7; v. 278; p. 102.
Blaw-Knox Company. (See Knox, Luther L., assignor.)
Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Car-lighting system. No. 1,351,828; Sept. 7; v. 278; p. 23.
Blom, Axel V., Berne, Switzerland. Producing asymmetric carbamids. No. 1,351,888; Sept. 7; v. 278; p. 35.
Blystad, Karl A., Kongsvinger, Norway. Wheel for power-driven winter vehicles. No. 1,351,992; Sept. 7; v. 278; p. 55.
Bogart, John C., assignor of one-half to P. R. Dismore, Bay City, Mich. Differential gearing. No. 1,351,737; Sept. 7; v. 278; p. 5.
Boje, Rudolf W., Jr., Buffalo, N. Y. Tongue-ball. No. 1,352,047; Sept. 7; v. 278; p. 65.
Booker, William B., Freeport, Tex. Oil-burner. No. 1,352,347; Sept. 7; v. 278; p. 121.
Bossart, Shirley H., Birmingham, Ala. Air-pump. No. 1,352,348; Sept. 7; v. 278; p. 122.
Boston Rubber Shoe Company. (See Lawrence, George L., Jr., assignor.)
Bowen, William S., New York, N. Y. Propeller-testing device. No. 1,351,738; Sept. 7; v. 278; p. 5.
Bowker, William H., Manchester, England. Wooden lap-pet. No. 1,351,829; Sept. 7; v. 278; p. 23.
Boyd, Roger J., assignor, by mesne assignments, to Carson Pirie Scott & Co., Chicago, Ill. Shipping-case. No. 1,351,739; Sept. 7; v. 278; p. 5.
Boyd, Roger J., assignor, by mesne assignments, to Carson Pirie Scott & Co., Chicago, Ill. Shipping-case. No. 1,351,740; Sept. 7; v. 278; p. 5.
Boyer, Harry L., assignor to Joseph Stokes Rubber Company, Trenton, N. J. Making rubber storage-battery jars. No. 1,352,170; Sept. 7; v. 278; p. 88.
Boyer, Harry L., assignor to Jos. Stokes Rubber Company, Trenton, N. J. Making storage-battery jars. No. 1,352,418; Sept. 7; v. 278; p. 134.
Bradford, Eugene S., Detroit, Mich. Printing mechanism for cylindrical articles. No. 1,351,830; Sept. 7; v. 278; p. 23.
Bradley, Joseph B., Miami, Fla. Window-screen catch. No. 1,352,171; Sept. 7; v. 278; p. 88.
Bråkenhielm, Carl A. B. R., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Ball-retainer for radial ball-bearings. No. 1,352,110; Sept. 7; v. 278; p. 77.
Branch, Charles J., Philadelphia, Pa. Concrete anchor or insert. No. 1,352,245; Sept. 7; v. 278; p. 102.
Brandon, Jarvies D., Lancaster, Ohio. Drill-retriever. No. 1,352,172; Sept. 7; v. 278; p. 88.
Brandon, Julian R., Jr., San Francisco, Calif. Condenser for radiators. No. 1,351,891; Sept. 7; v. 278; p. 36.
Bredsvold, Norine, *et al.* (See Bredsvold, Paul A., assignor.)
Bredsvold, Paul A., Chicago, Ill., assignor of five-twelfths to F. P. Thompson, two-twelfths to F. M. Fairfield, and five-twelfths to N. Bredsvold. Lighting-fixture. No. 1,352,111; Sept. 7; v. 278; p. 77.
Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Can-heading machine. No. 1,351,831; Sept. 7; v. 278; p. 23.
Brickey, Robert S., Aberdeen, S. D. Auxiliary throttle-controller. No. 1,351,832; Sept. 7; v. 278; p. 23.
Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Motor-drive. No. 1,352,112; Sept. 7; v. 278; p. 77.
Brown, Walter T. K., Branford, assignor to Winchester Repeating Arms Co., New Haven, Conn. Tubular ice-skate. No. 1,352,113; Sept. 7; v. 278; p. 77.
Bua, Frank A., Lodi, N. J. Illuminating attachment for music-holders. No. 1,352,349; Sept. 7; v. 278; p. 122.
Burgess, Edward W., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Steering mechanism for traction-engines. No. 1,351,741; Sept. 7; v. 278; p. 5.
Burns, Thomas J., Syracuse, N. Y. Window-shade. No. 1,352,350; Sept. 7; v. 278; p. 122.
Burridge, Francis O., executor. (See Burridge, Lee S.)
Burridge, Lee S., deceased, F. O. Burridge, executor, assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,351,993; Sept. 7, v. 278; p. 56.
Butera, Mike. (See Salia, T., and Butera.)
By-Products Manufacturing Company. (See Lowe, L. P., and Ruff, assignors.)
Byers, James, Chicago, Ill. Gas-burner. No. 1,352,351; Sept. 7; v. 278; p. 122.
Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)
Cameron, F. K., and J. A. Cullen, Salt Lake City, Utah, and R. W. Hyde, New York, N. Y., assignors to American Smelting & Refining Company, Salt Lake City, Utah. Treating zinc-bearing ores. No. 1,352,399; Sept. 7; v. 278; p. 131.
Campagnie Des Forges et Acieries De La Marine et D'Homecourt. (See Rimailho, Emile, assignor.)
Campbell, William C., Denver, Colo. Milk-bottle carrier. No. 1,352,173; Sept. 7; v. 278; p. 88.
Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for treating motion-picture films. No. 1,351,834; Sept. 7; v. 278; p. 24.
Carlson, Lawrence E., Huntington, Ind. Electric switch. No. 1,352,246; Sept. 7; v. 278; p. 102.
Carpenter, Brigham, *et al.* (See Prisbrey, George W., assignor.)
Carr, John D. (See McGarry, H. S., and Carr.)
Carson, Pirie Scott & Company. (See Boyd, Roger J., assignor.)
Carter, Thomas, Belton, S. C. Fireplace heater and cooker. No. 1,352,048; Sept. 7; v. 278; p. 65.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,352,247; Sept. 7; v. 278; p. 103.
Cass, George B., Ottawa, Ohio. Vaporizer for carbureters. No. 1,352,049; Sept. 7; v. 278; p. 65.
Caswell, George B., Fort Terry, N. Y. Oven-grill. No. 1,352,352; Sept. 7; v. 278; p. 122.
Catlin, G. L., and D. Morrison, Port Allegany, assignors to R. W. Hilton, Smethport, Pa. Glass-drawing apparatus. No. 1,351,833; Sept. 7; v. 278; p. 24.
Challet, Etienne, Geneva, Switzerland. Sliding calipers. No. 1,351,941; Sept. 7; v. 278; p. 46.
Champion Ignition Company. (See Schmidt, Albert, assignor.)
Champion Kerosene Burner, The. (See Hill, Clarence A., assignor.)
Chandler and Price Company, The. (See Tyler, Ralph S., assignor.)
Chapron, Baptiste A. J., Puteaux, France. Agricultural tractor. No. 1,351,942; Sept. 7; v. 278; p. 46.
Charles, Henry L., Butte, Mont. Reverberatory furnace. No. 1,351,835; Sept. 7; v. 278; p. 24.
Chase, Philip H., East Orange, N. J. Electric switch. No. 1,352,400; Sept. 7; v. 278; p. 131.
Chase, Philip H., East Orange, N. J. Electric switch. No. 1,352,401; Sept. 7; v. 278; p. 131.
Chase, Philip H., East Orange, N. J. Electric switch. No. 1,352,402; Sept. 7; v. 278; p. 131.
Chattle, Michael, Wauna, Oreg. Engine-starter. No. 1,352,353; Sept. 7; v. 278; p. 123.
Chicago Cabinet Lock Company. (See Baird, Edward P., assignor.)
Chomos, John, Toledo, Ohio. Window-locking device. No. 1,352,114; Sept. 7; v. 278; p. 77.
Christmas, Adolph F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Governing fuel-pump. No. 1,352,050; Sept. 7; v. 278; p. 65.
Church, Ira, assignor of one-half to L. Sanford, Reed City, Mich. Ratchet and clutch mechanism. No. 1,352,354; Sept. 7; v. 278; p. 123.
Churchill, Patrick, Manchester, England. Buoyant life-saving fitting and appliance for ships. No. 1,351,836; Sept. 7; v. 278; p. 24.
Clancy, John C., New York, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,174; Sept. 7; v. 278; p. 89.
Clancy, John C., Freeport, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Obtaining the cyanogen compound of an alkali metal. No. 1,352,175; Sept. 7; v. 278; p. 89.

Clancy, John C., Freeport, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Process of and means for forming nitrogenous compounds. No. 1,352,176; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis catalyst and making same. No. 1,352,177; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis and catalyst therefor. No. 1,352,178; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis. No. 1,352,179; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,180; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,181; Sept. 7; v. 278; p. 89.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,182; Sept. 7; v. 278; p. 89.
Clements Co., The. (See Kennedy, Joseph, assignor.)
Cleveland, Edgar L., Othello, Wash. Collapsible tube. No. 1,352,355; Sept. 7; v. 278; p. 123.
Coar, Enos E., South Bend, Ind. Roof connection for vent-pipes. No. 1,352,248; Sept. 7; v. 278; p. 103.
Cohan, Charles. (See Herschede, W. J., and Cohan.)
Cohen, Louis, Johnstown, N. Y. Auto-bumper. No. 1,351,837; Sept. 7; v. 278; p. 25.
Cohon, Benjamin J., Westwood, and L. Moskowitz, Bayonne, N. J. Lock. No. 1,351,838; Sept. 7; v. 278; p. 25.
Concannon, Michael E., Chicago, Ill. Proportional spacer. No. 1,351,889; Sept. 7; v. 278; p. 36.
Condon, Edward T., Jr., New York, N. Y. Automatic stop mechanism for talking-machines. No. 1,351,839; Sept. 7; v. 278; p. 25.
Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Regulating device for dynamo-electric machines. No. 1,352,051; Sept. 7; v. 278; p. 66.
Conlin, Frederick. (See Heath, Harry E., assignor.)
Conradson, Conrad M., Madison, Wis. Carriage-bed for lathes. No. 1,352,183; Sept. 7; v. 278; p. 89.
Cooley, Fred W., Minneapolis, Wis. Tone-modifier for talking-machines. No. 1,352,115; Sept. 7; v. 278; p. 78.
Cooper, George F., Detroit, Mich. Display-rack. No. 1,351,994; Sept. 7; v. 278; p. 56.
Corning Glass Works. (See Bailey, James, assignor.)
Cornish, Philip, Leytonstone, England. Fixed seat for use in cinemas, theaters, and the like. No. 1,351,995; Sept. 7; v. 278; p. 56.
Corrigan, Clyde S., Norwood, Ohio. Mining-machine. No. 1,351,892; Sept. 7; v. 278; p. 36.
Corte, Camillo, Rome, Italy. Multiple wheel for road-vehicles. No. 1,351,996; Sept. 7; v. 278; p. 56.
Cox, B. P., *et al.* (See Swatzell, David N., assignor.)
Cox, Ross C., and J. F. McGlumitey, St. Joseph, Mo. Mashing and mixing machine. No. 1,351,890; Sept. 7; v. 278; p. 36.
Craigie, Frank, and J. Hines, Chicago, Ill. Nozzle. No. 1,351,840; Sept. 7; v. 278; p. 25.
Craven, James F., Pittsburgh, Pa. Grease-cup. No. 1,351,841; Sept. 7; v. 278; p. 25.
Crawford, Howard H., assignor to Detroit Motor Appliance Company, Detroit, Mich. Radiator-shield. No. 1,352,184; Sept. 7; v. 278; p. 90.
Creitz, Walter M., Bethlehem, Pa. Guard-rail structure. No. 1,352,356; Sept. 7; v. 278; p. 123.
Crippen, George F., Ypsilanti, assignor to The Crinpen Manufacturing Company, Mount Pleasant, Mich. Roll-adjusting apparatus. No. 1,352,052; Sept. 7; v. 278; p. 66.
Crippen Manufacturing Company, The. (See Crippen, George F., assignor.)
Crocker, Arthur T. Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,352,249; Sept. 7; v. 278; p. 103.
Crocker, Clarence T., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,352,250; Sept. 7; v. 278; p. 103.
Cullen, John A. (See Cameron, F. K., Cullen, and Hyde.)
Culleton, Robert A., and D. J. Leahy, Brooklyn, N. Y. Gas-meter. No. 1,351,842; Sept. 7; v. 278; p. 25.
Cullikan, John C., Bombay, N. Y. Package-tie. No. 1,352,357; Sept. 7; v. 278; p. 123.
Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraphy. No. 1,352,116; Sept. 7; v. 278; p. 78.
Curry, David, New York, N. Y. Guard for printing-presses. No. 1,351,997; Sept. 7; v. 278; p. 56.
Curtin, John W., Worcester, Mass. Nut-lock. No. 1,352,053; Sept. 7; v. 278; p. 66.
Curtis, Harry D., Red Bank, N. J. Hat-size reducer. No. 1,351,893; Sept. 7; v. 278; p. 36.
Curtiss Aeroplane & Motor Corporation. (See Curtiss, G. H., and Kleckler, assignors.)
Curtiss Aeroplane and Motor Corporation. (See Curtiss, Glenn H., assignor.)
Curtiss Aeroplane & Motor Corp. (See Kirkham, Charles B., assignor.)
Curtiss Aeroplane & Motor Corporation. (See Kleckler, Henry, assignor.)
Curtiss, Glenn H., and H. Kleckler, assignors to Curtiss Aeroplane & Motor Corporation, Buffalo, N. Y. Flying-boat construction. No. 1,351,742; Sept. 7; v. 278; p. 5.
Curtiss, Glenn H., assignor to Curtiss Aeroplane and Motor Corporation, Garden City, N. Y. Airplane-wing-structure truss. No. 1,351,743; Sept. 7, v. 278; p. 6.
Cutler, William C., North Glendale, Calif. Antiskid device. No. 1,352,403; Sept. 7; v. 278; p. 131.
Cutler, William C., North Glendale, Calif. Directory machine. No. 1,352,416; Sept. 7; v. 278; p. 134.
Dailey, Roy A., Taft, Calif. Overshot. No. 1,351,744; Sept. 7; v. 278; p. 6.
Dalbey, James H., assignor to Elgin Rubber Ace Company, Elgin, Ill. Resilient core for tires. No. 1,351,894; Sept. 7; v. 278, p. 36.
Davis, Minor M., New York, N. Y. Protecting device for electrical instruments. No. 1,352,117; Sept. 7; v. 278; p. 78.
Dean, Mark, Boonville, N. Y. Signal-operating device for automobiles. No. 1,351,745; Sept. 7; v. 278; p. 6.
Deiley, Harvey R. (See Lindstrom, J. T., and Deiley.)
Deiley, Harvey R., Bethlehem, assignor of one-half to J. T. Lindstrom, Allentown, Pa. Automobile safety-signal. No. 1,351,773; Sept. 7; v. 278; p. 11.
Delco-Light Company. (See Kettering, Charles F., assignor.)
De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
Depew, Rufus, Brooklyn, N. Y. Gas-burner for heaters. No. 1,352,358; Sept. 7; v. 278; p. 123.
Detroit Motor Appliance Company. (See Crawford, Howard H., assignor.)
Dibblee, Alphonse A. (See Barro, Anthony F., assignor.)
Dickinson, E. D., and J. Wilkinson, Schenectady, N. Y., assignors to General Electric Company. Flexible coupling. No. 1,352,251; Sept. 7; v. 278; p. 103.
Dietz, Emily K. (See McCorkindale, William P., assignor.)
Diez, Conrad J. (See Meushaw, T. H., and Diez.)
Dillon, Harry E., Philadelphia, Pa. Concrete pipe construction. No. 1,351,895; Sept. 7; v. 278; p. 36.
Dills, Henry S., Garrett, Ind. Fish-bait. No. 1,352,054; Sept. 7; v. 278; p. 66.
Di Salvatore, Anthony, Scotia, N. Y. Ladder and safety-lock. No. 1,352,055; Sept. 7; v. 278; p. 66.
Dismore, Paul R. (See Bogart, John C., assignor.)
Dobbins, James C., Rock Hill, S. C. Brick-machine. No. 1,352,056; Sept. 7; v. 278; p. 66.
Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Fuel-burner. No. 1,351,944; Sept. 7; v. 278; p. 46.
Doble-Detroit Steam Motors Co. (See Doble, Abner, assignor.)
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Lighting means. No. 1,352,252; Sept. 7; v. 278; p. 104.
Doran, John H., assignor to General Electric Company, Schenectady, N. Y. Dash-pot. No. 1,352,359; Sept. 7; v. 278; p. 124.
Dow, Floyd, assignor of one-half to L. D. Edminster, Wyanet, Ill. Pipe-coupling. No. 1,352,118; Sept. 7; v. 278; p. 78.
Doyle, James H., Chicago, and W. J. Kenny, Cicero, Ill., assignors to American Can Company, New York, N. Y. Rail for container bodies. No. 1,351,896; Sept. 7; v. 278, p. 37.
Drey, Leo A., St. Louis, Mo., and J. L. Hiatt, Sapulpa, Okla., assignors to Schram Glass Manufacturing Co., St. Louis, Mo. Fruit-jar fastener. No. 1,352,119; Sept. 7; v. 278; p. 78.
Dulany, John R., Pittsburgh, Pa. Cleaning oil and gas wells. No. 1,351,945; Sept. 7; v. 278; p. 47.
Dunn, Andrew C., Minneapolis, Minn. Shock-absorber. No. 1,351,843; Sept. 7; v. 278; p. 26.
Dunn, Guy A. (See Eldridge, J. J., and Dunn.)
Du Pont, Eleuthere P., Montchanin, Del. Oil-strainer. No. 1,352,120; Sept. 7; v. 278; p. 79.
Du Pont, Ernest. (See Du Pont, Francis I. and E.)
Du Pont, Francis I. and E., Wilmington, Del. Perforated pellet of explosive powder and making same. No. 1,352,121; Sept. 7; v. 278; p. 79.
Duratex Company, The. (See Wilson, John A., assignor.)
Dwyer, William O., assignor to General Electrical Company, Pittsfield, Mass. Stationary induction apparatus. No. 1,352,360; Sept. 7; v. 278; p. 124.
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Folmer, William F., assignor.)
Eastman Kodak Company. (See Ross, Frank E., assignor.)
Eaton, George M., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Rotor for dynamo-electric machines. No. 1,351,897; Sept. 7; v. 278; p. 37.
Eaton, George M., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Rotatable member for dynamo-electric machines. No. 1,351,898; Sept. 7; v. 278; p. 37.

Eberle, John A., St. Louis, Mo. Suspensible seat. No. 1,351,746; Sept. 7; v. 278; p. 6.
Eclipse Machine Company. (See McGrath, William L., assignor.)
Edge Moor Iron Company. (See Sellers, William F., assignor.)
Edminster, Llewellyn D. (See Dow, Floyd, assignor.)
Edwards, Isaac L., Aurora, Ill. Automatic railway switch and signal. No. 1,351,946; Sept. 7; v. 278; p. 47.
Eichendorff, Bruno E., San Francisco, Calif. Attachment for diestocks. No. 1,352,253; Sept. 7; v. 278; p. 104.
Eldridge, John J., and G. A. Dunn, Oakland, Calif. Method and apparatus for drying pulp hollow ware. No. 1,352,404; Sept. 7; v. 278; p. 131.
Electric Auto-Lite Corporation. (See Saxon, Hermon E., assignor.)
Elfreth, Emily A., *et al.*, executors. (See Allen, Samuel L.)
Elgin Rubber Ace Company. (See Dalbey, James H., assignor.)
Elmblad, Hjalmar, Chicago, Ill. Writing-machine. No. 1,352,405; Sept. 7; v. 278; p. 122.
Emerson, Victor L., Philadelphia, Pa. Closure for boiler-headers. No. 1,352,254; Sept. 7; v. 278; p. 104.
Emerson, Victor L., Philadelphia, Pa. Safety-damper for oil-stills and the like. No. 1,352,255; Sept. 7; v. 278; p. 104.
Engel, Henry, and E. Feldman, New York, N. Y. Window and wall cleaner. No. 1,352,122; Sept. 7; v. 278; p. 79.
Erickson, Frederic W., East Greenwich, R. I. Coupling for metal pipes. No. 1,352,256; Sept. 7; v. 278; p. 104.
Evans, Carl, Battle Creek, Mich. Ventilator. No. 1,352,257; Sept. 7; v. 278; p. 104.
Evans, Ethel, Wenatchee, Wash. Tree-barking tool. No. 1,352,057; Sept. 7; v. 278; p. 67.
Everett, John H. D., Boulder, Colo. Ironing-board. No. 1,352,361; Sept. 7; v. 278; p. 124.
Fairfield, Frank M., *et al.* (See Bredsvold, Paul A., assignor.)
Fairhurst, John T., Elizabeth, N. J. Lock for folding partitions. No. 1,351,844; Sept. 7; v. 278; p. 26.
Fairles Manufacturing Co. (See Surface, William E., assignor.)
Fawcett, Robert, *et al.* (See Prisbrey, George W., assignor.)
Federal Telegraph Company. (See Fuller, Leonard F., assignor.)
Feldman, Edward. (See Engel, H., and Feldman.)
Fedor, Sandor, Oxford Furnace, N. J. Folding chair. No. 1,352,185; Sept. 7; v. 278; p. 90.
Felter, William W., Arkansas City, Kans. Forming clamp for two-piece snow-shoes. No. 1,352,362; Sept. 7; v. 278; p. 124.
Fibre Manufacturing Company. (See Frothingham, Samuel T., assignor.)
Findley, William A., San Francisco, Calif. Tool. No. 1,351,947; Sept. 7; v. 278; p. 47.
Firestone Tire & Rubber Company, The. (See Stevens, William C., assignor.)
Fish, Lewin B., assignor to American Telephone and Telegraph Company, East Orange, N. J. Anchoring device. No. 1,351,845; Sept. 7; v. 278; p. 26.
Fischer, Howard L. (See Kristofek, Frank J., assignor.)
Flanagan, James U., assignor to F. F. Slocomb & Co., Incorporated, Wilmington, Del. Machine for seasoning or finishing leather. No. 1,352,186; Sept. 7; v. 278; p. 90.
Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
Flannery Bolt Company. (See Landgraf, Frederick K., assignor.)
Fleischmann, John, Minneapolis, Minn. Hot-water heater. No. 1,351,899; Sept. 7; v. 278; p. 37.
Flinn, John R., Johnstown, Pa. Garbage-can. No. 1,351,747; Sept. 7; v. 278; p. 6.
Flynn, James, Soo Junction, Mich. Sheet-music moving and time-keeping apparatus. No. 1,352,363; Sept. 7; v. 278; p. 124.
Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-film sheath. No. 1,351,998; Sept. 7; v. 278; p. 57.
Foster, Harry J., Chicago, Ill. Circle-guide for oxy-acetylene torches. No. 1,351,846; Sept. 7; v. 278; p. 26.
Fowler, Charles, Tomkins Cove, N. Y. Potato picker or gatherer. No. 1,351,948; Sept. 7; v. 278; p. 47.
Fox, George P., *et al.* (See Bear, Claude A., assignor.)
Freedman, Hyman, Chicago, Ill. Spring structure. No. 1,351,748; Sept. 7; v. 278; p. 7.
French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)
Freundt, Louis J., Chicago, Ill., assignor to American Can Company, New York, N. Y. Shipping and dispensing container. No. 1,351,900; Sept. 7; v. 278; p. 38.
Friedman, Charles. (See Rudolph, Raymond H., assignor.)
Frothingham, Samuel T., Allston, assignor to Fibre Manufacturing Company, Boston, Mass. Water-closet seat. No. 1,352,058; Sept. 7; v. 278; p. 67.
Fuchs, Ernest, Paris, assignor to L. Renault, Billancourt, France. Forging valves and similar articles. No. 1,351,942; Sept. 7; v. 278; p. 47.
Fuller, Leonard F., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,352,059; Sept. 7; v. 278; p. 67.
Gaston, Ralph M., Chicago, Ill. Internal-combustion engine. No. 1,351,950; Sept. 7; v. 278; p. 48.
Gates Rubber Company, The. (See Yelm, Charles W., assignor.)
Gearhart, Clyde M. (See Montuori, Felix, assignor.)
General Electric Company. (See Berg, Ernst J., assignor.)
General Electric Company. (See Case, Frank E., assignor.)
General Electric Company. (See Crocker, Arthur T., assignor.)
General Electric Company. (See Crocker, Clarence T., assignor.)
General Electric Company. (See Dickinson, E. D., and Wilkinson, assignors.)
General Electric Company. (See Doran, John H., assignor.)
General Electric Company. (See Dwyer, William O., assignor.)
General Electric Company. (See Junggren, Oscar, assignor.)
General Electric Company. (See Lord, Henry C., assignor.)
General Electric Company. (See Murphy, Edwin J., assignor.)
General Electric Company. (See Wilson, Leonard, assignor.)
General Motor Corporation. (See Hamilton, Alexander C., assignor.)
Geran, George B., Miami, Fla., assignor of one-half to S. L. Smith, Williamsburg, Ky. Internal-combustion engine. No. 1,352,187; Sept. 7; v. 278; p. 90.
Gerhart, Jacob G., Fredericksburg, Pa. Air-pump. No. 1,351,847; Sept. 7; v. 278; p. 27.
Gibson, Arthur H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Centrifugal brake for power-trucks. No. 1,352,000; Sept. 7; v. 278; p. 67.
Gibson, William A. (See Jeffries, Z., and Gibson.)
Gilbert, William L., Clock Company. (See Hyde, Charles H., assignor.)
Giles, Edgar B., Los Angeles, Calif. Trestle-joint. No. 1,352,188; Sept. 7; v. 278; p. 91.
Gingras, Edward F., Buffalo, N. Y. Apparatus for manufacturing belting. No. 1,351,901; Sept. 7; v. 278; p. 88.
Ginn, Percy E. (See Johnson, H. L., and Raymer, assignors.)
Glaze, Herbert L. (See McFate, J. N., and Glaze, assignors.)
Goddard, Clair E., Omaha, Nebr. Recording apparatus. No. 1,351,902; Sept. 7; v. 278; p. 38.
Goldberg, Jacob, assignor to The Goldberg Padding Machine Company, Cincinnati, Ohio. Cloth-feed mechanism for blindstitch sewing-machines. No. 1,352,061; Sept. 7; v. 278; p. 67.
Goldberg Padding Machine Company, The. (See Goldberg, Jacob, assignor.)
Goodwin, Grover C. (See Goodwin, James D., and G. C.)
Goodwin, James D. and G. C., Richmond, Va. Liquid-fuel burner. No. 1,351,848; Sept. 7; v. 278; p. 27.
Gorton, George. (See Tausch, Joseph H., assignor.)
Gorton, Robert, deceased; C. W. Noyes, administrator, Brookline, Mass. Making garters. No. 1,352,258; Sept. 7; v. 278; p. 105.
Graf, Fritz, Sr., Collingdale, Pa. Fiber-dressing machine. No. 1,351,749; Sept. 7; v. 278; p. 7.
Graves, Inez, Seattle, Wash. Ironing-board. No. 1,352,259; Sept. 7; v. 278; p. 105.
Gray, James A., assignor to American Can Company, San Francisco, Calif. Multiple-disk-cutting apparatus. No. 1,351,951; Sept. 7; v. 278; p. 48.
Gray Telephone Pay Station Company, The, *et al.* (See Long, George A., assignor.)
Graziano, Joseph, Newburgh, N. Y. Temperature-regulator. No. 1,352,364; Sept. 7; v. 278; p. 125.
Great Northern Paper Company. (See Sutherland, Forrest A., assignor.)
Green, Charles F., Defiance, assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-feed system. No. 1,352,123; Sept. 7; v. 278; p. 79.
Green, William R., Los Angeles, Calif. Safety-stirrup. No. 1,352,406; Sept. 7; v. 278; p. 132.
Grönroos, Jakob, Fairport Harbor, Ohio. Antiskid device for automobiles. No. 1,351,750; Sept. 7; v. 278; p. 7.
Guinand, Gustavius, Los Angeles, Calif. Valve-spring lifter. No. 1,352,407; Sept. 7; v. 278; p. 132.
Gunther, George, Seattle, Wash. Nonskid device for motor-vehicles. No. 1,352,260; Sept. 7; v. 278; p. 105.
Guthrie, Edwin. (See Whitten, Wilmot W., assignor.)
Haeberlein, Max, Mountain Lakes, N. J. Fly-ball governor. No. 1,352,189; Sept. 7; v. 278; p. 91.
Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Main-shaft drive. No. 1,352,124; Sept. 7; v. 278; p. 79.
Hamel Shoe Machinery Company. (See Laughton, R. E., and Barnes, assignors.)
Hamilton, Alexander C., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Radiator for motor-vehicles. No. 1,352,190; Sept. 7; v. 278; p. 91.
Hanson, H. L., Butte, Mont., and W. B. Sawyer, Edmonds, Wash. Burning tree-stumps. No. 1,352,261; Sept. 7; v. 278; p. 105.

Hanson & Van Winkle Company, The. (See Todd, E. N., and King, assignors.)
Hara, Fusataro, San Francisco, Calif. Ice-cream-delivery machine. No. 1,351,903; Sept. 7; v. 278; p. 38.
Harding, Henry O., Minneapolis, Minn. Conveying and elevating apparatus. No. 1,352,262; Sept. 7; v. 278; p. 105.
Harding, Henry O., assignor to Washburn Crosby Company, Minneapolis, Minn., Conveyer. No. 1,352,263; Sept. 7; v. 278; p. 105.
Harman, Walter A. (See Ricketts, Lawrence M., assignor.)
Harrah, Hillis A., Kansas City, Mo., assignor of one-half to L. T. Leimbach, Rosedale, Kans. Driving-gearing for tractors. No. 1,352,125; Sept. 7; v. 278; p. 79.
Hartman, Peter B., Watertown, N. Y. Automobile-horn. No. 1,351,904; Sept. 7; v. 278; p. 38.
Harvey, Peter L., Chicago, Ill. Flying-machine. No. 1,351,905; Sept. 7; v. 278; p. 39.
Hatfield, Richard H., Brooklyn, N. Y. Means for synchronizing and harmonizing moving-picture exhibitions. No. 1,352,126; Sept. 7; v. 278; p. 80.
Hays, Charles M. (See Orbin, George, assignor.)
Heath, Harry E., Newark, assignor to F. Conlin, Elizabethport, N. J. Driving mechanism. No. 1,351,999; Sept. 7; v. 278; p. 57.
Heeter, Charles M., Butler, Pa. Valve for deep wells. No. 1,351,906; Sept. 7; v. 278; p. 39.
Heine, Herman, Brooklyn, assignor to A. Kimball Company, New York, N. Y. Pin-pointing machine. No. 1,351,849; Sept. 7; v. 278; p. 27.
Hellmund, R. E., Swissvale, and B. S. Moore, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Arrangement of leads for dynamo-electric machines. No. 1,351,907; Sept. 7; v. 278; p. 39.
Henderson, John, Chicago, Ill. Internal-combustion engine. No. 1,352,127; Sept. 7; v. 278; p. 80.
Henig Engine Co. (See Henig, Frank L., assignor.)
Henig, Frank L., assignor to Henig Engine Co., Chicago, Ill., Pneumatic tool. No. 1,352,191; Sept. 7; v. 278; p. 91.
Hentschel, Paul J., Baltimore, Md. Bottle-stopper. No. 1,352,062; Sept. 7; v. 278; p. 68.
Hernacki, John, Alexandria, La. Shade-roller support. No. 1,352,264; Sept. 7; v. 278; p. 105.
Herndon, William T., Parkton, N. C. Plow. No. 1,351,850; Sept. 7; v. 278; p. 28.
Herschede Hall Clock Company, The. (See Herschede, W. J. and Cohan, assignors.)
Herschede, W. J., and C. Cohan, assignors to The Herschede Hall Clock Company, Cincinnati, Ohio. Speed-regulating device. No. 1,352,419; Sept. 7; v. 278; p. 134.
Hershey, Martin E., Arlington, N. J. Air-exhauster for steam-radiators. No. 1,352,265; Sept. 7; v. 278; p. 106.
Hiatt, James L. (See Drey, L. A., and Hiatt.)
Hidden, Charles P., assignor to Nitrogen Products Company, Providence, R. I. Process and means for producing metallic cyanids. No. 1,352,192; Sept. 7; v. 278; p. 91.
Hidden, Charles P., Providence, R. I., assignor to Nitrogen Products Company. Fixing atmospheric nitrogen. No. 1,352,193; Sept. 7; v. 278; p. 92.
Hill, Clarence A., Columbus, assignor to The Champion Kerosene-Burner Company, Kenton, Ohio. Kerosene-gas-burning furnace. No. 1,352,063; Sept. 7; v. 278; p. 68.
Hillfield Body Company, The. (See Schofield, Frederick C., assignor.)
Hilton, R. W. (See Catlin G. L., and Morrison, assignors.)
Hinchman, Mortimer L., Brooklyn, N. Y. Safety-envelop blank. No. 1,351,851; Sept. 7; v. 278; p. 28.
Hines, John. (See Craigie, F., and Hines.)
Hirsch, Morris, assignor to Bilur Motor Appliance Company, New York, N. Y. Electrical system for motor-vehicles and the like. No. 1,352,266; Sept. 7; v. 278; p. 106.
Hlavaty, Joe, Jr., Wallis, Tex. Sunken-ship indicator. No. 1,352,000; Sept. 7; v. 278; p. 57.
Hodges, Ralph T. (See Stevens, Howard M., assignor.)
Hoefener, Edward W., Los Angeles, Calif. Traveling stool attachment for barbers' chairs. No. 1,352,409; Sept. 7; v. 278; p. 132.
Hoff, Leslie D., Newark, N. J. Combination slitter and perforator. No. 1,351,751; Sept. 7; v. 278; p. 7.
Hoffmann-La Roche Chemical Works, The. (See Müller, Emil, assignor.)
Hofmann, William G., assignor to Howard B. Sherman, Battle Creek, Mich. Cover-locking device for grease-cups. No. 1,352,064; Sept. 7; v. 278; p. 68.
Hojgaard, Anders, C. E., Copenhagen, Denmark. Device for automatic extinction or dampening of the flame in gas-cookers. No. 1,352,001; Sept. 7; v. 278; p. 57.
Holman, Stephen W. (See Andrews, M. L., and Holman.)
Homan, John G., Steubenville, Ohio, assignor, by mesne assignments, to W. H. Keller, Norton, Va. Alloy. No. 1,352,367; Sept. 7; v. 278; p. 125.
Hood, William C., Chicago, Ill. Commutator-brush. No. 1,352,408; Sept. 7; v. 278; p. 132.
Hooker, Leslie E., Lowell, Mass. Machine for making cartridge-shells. No. 1,352,194; Sept. 7; v. 278; p. 92.
Hooper, Harris G., San Francisco, Calif. Aeroplane construction. No. 1,351,852; Sept. 7; v. 278; p. 28.
Honeywell, Edward R., Garber, Okla. Walking-tractor. No. 1,351,752; Sept. 7; v. 278; p. 7.
Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)
Horsey, Melvin, Crisfield, Md. Advertising device. No. 1,352,368; Sept. 7; v. 278; p. 125.
Horton, Dock G., Birmingham, Ala. Shade-roller. No. 1,352,410; Sept. 7; v. 278; p. 133.
Hottenstein, Philip, Gleason, Wis. Sign. No. 1,352,065; Sept. 7; v. 278; p. 68.
Hover, Charles F., Conrad, Mont. Mechanical movement. No. 1,351,753; Sept. 7; v. 278; p. 7.
Howe, Andrew F., assignor, by mesne assignments, to Howe Safety Appliance Company, Granite City, Ill. Safety-guard for rotary grinding-machines. No. 1,351,908; Sept. 7; v. 278; p. 39.
Howe Safety Appliance Company. (See Howe, Andrew F., assignor.)
Howe Scale Company. (See Souander, Andrew, assignor.)
Howell, Clarence S., assignor, by mesne assignments, of one-half to L. McGuire, New York, N. Y. Concrete-pile construction. No. 1,352,128; Sept. 7; v. 278; p. 80.
Hubard, Archibald B., Ogontz, Pa. Antifriction roller and ball-bearing. No. 1,351,754; Sept. 7; v. 278; p. 8.
Hubbell, Lindley D., Hartford, Conn. Firearm. No. 1,352,267; Sept. 7; v. 278; p. 106.
Huber, Sigmund V. (See Williamson, A. G., and Huber.)
Hughes, Arthur J. (See Starling, S. G., and Hughes.)
Hughes, Henry & Son Limited. (See Starling, S. G., and Hughes, assignors.)
Hunt, Harry B., Foremost, Alberta, Canada. Sectional bookcase. No. 1,352,195; Sept. 7; v. 278; p. 92.
Hunt, Homer, Springfield, Mass. Brush. No. 1,352,369; Sept. 7; v. 278; p. 125.
Hunter, Samuel, Bellevue, Pa. Electric routing-machine. No. 1,352,196; Sept. 7; v. 278; p. 92.
Hutton, John, Gibliston, Colinsburgh, Scotland. Machine for planting potatoes and other seed. No. 1,352,411; Sept. 7; v. 278; p. 133.
Hyde, Charles H., assignor to William L. Gilbert Clock Company, Winstead, Conn. Sash for dials. No. 1,351,853; Sept. 7; v. 278; p. 28.
Hyde, Frank, Sioux Falls, S. D. Collar-fastener. No. 1,352,268; Sept. 7; v. 278; p. 106.
Hyde, Reed W. (See Cameron, F. K. Cullen and Hyde.)
Ikeda, Kikunaë, Tokyo, Japan. Manufacturing hydrogen sulfid. No. 1,351,755; Sept. 7; v. 278; p. 8.
Indahl, Mauritz C., Philadelphia, Pa. Differential-gear mechanism. No. 1,352,269; Sept. 7; v. 278; p. 106.
Industrial Research Corporation. (See Brockway, Carl P., assignor.)
Industrial Research Corporation. (See Green, Charles F., assignor.)
Industrial Research Corporation. (See Jones, George G., assignor.)
Ingersoll-Rand Company. (See Christmas, Adolph F., assignor.)
Ingersoll-Rand Company. (See Gibson, Arthur H., assignor.)
Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
Ingersoll-Rand Company. (See Smith, William A., assignor.)
International Aerial Navigation Company. (See Keppel, Jesse E., assignor.)
International Harvester Company. (See Burgess, Edward W., assignor.)
International Harvester Company. (See Johnston, E. A., and Kane, assignors.)
International Nickel Company, The. (See Stanley, Robert C., assignor.)
Irvine, Charles R., Petrolia, Ontario, Canada. Vehicle-tire. No. 1,352,370; Sept. 7; v. 278; p. 125.
Irwin, Beatrice, New York, N. Y. Light-filter. No. 1,351,756; Sept. 7; v. 278; p. 8.
Iseman, Will D., Detroit, Mich. Egg-candler. No. 1,351,757; Sept. 7; v. 278; p. 8.
Jacob, Ernst A. H., San Antonio, Tex. Cotton-tramper. No. 1,352,129; Sept. 7; v. 278; p. 80.
James, Edgar, Lincolnton, N. C. Automobile-drive. No. 1,352,131; Sept. 7; v. 278; p. 81.
James, Eugene, Lincolnton, N. C. Automobile-drive. No. 1,352,130; Sept. 7; v. 278; p. 80.
Jefferson, Daniel H., Los Angeles, assignor to F. E. Anders, Alhambra, Calif. Gaging means. No. 1,352,270; Sept. 7; v. 278; p. 107.
Jeffrey Manufacturing Company, The. (See Ball, Albert, assignor.)
Jeffrey Manufacturing Company, The. (See Levin, Niles D., assignor.)
Jeffries, Z., and W. A. Gibson, assignors to The Aluminum Castings Company, Cleveland, Ohio. Alloy. No. 1,352,271; Sept. 7; v. 278; p. 107.
Jeffries, Z., and W. A. Gibson, assignors to The Aluminum Castings Company, Cleveland, Ohio. Alloy. No. 1,352,272; Sept. 7; v. 278; p. 107.
Jenckes Knitting Machine Company. (See Miller, Max C., assignor.)
Jenkins, Robert C., Bessemer, Ala. Automobile-lock. No. 1,352,132; Sept. 7; v. 278; p. 81.
Jennings, Victor H., assignor, by mesne assignments, to F. R. Batchelder, Worcester, Mass. Woven pocketed carrier. No. 1,352,133; Sept. 7; v. 278; p. 81.

Johnson, Benjamin H., and B. M. Phelps, said Johnson assignor to W. S. Phelps, Roanoke, Va. Bed-frame connection. No. 1,351,758; Sept. 7; v. 278; p. 8.

Johnson, Carl G., Eau Claire, Wis. Camera. No. 1,352,134; Sept. 7; v. 278; p. 81.

Johnson, Frank L., Akron, Ohio. Collapsible tire-core. No. 1,352,274; Sept. 7; v. 278; p. 107.

Johnson, Harry L., Boston, Mass., and M. Raymer, Battle Creek, Mich., assignors to P. E. Ginn, Boston, Mass. Machine for sealing cartons. No. 1,352,197; Sept. 7; v. 278; p. 93.

Johnson, Lawrence E., assignor, by mesne assignments, to Mattie S. Johnson, Melrose, Mass. Method of and apparatus for heat-treating metals. No. 1,351,909; Sept. 7; v. 278; p. 39.

Johnson, Mattie S. (See Johnson, Lawrence E., assignor.)

Johnson, Ralph D., Fairbury, Ill. Clothesline. No. 1,352,273; Sept. 7; v. 278; p. 107.

Johnston, E. A., and E. J. Kane, assignors, by mesne assignments, to International Harvester Company, Chicago, Ill. Tractor steering mechanism. No. 1,351,759; Sept. 7; v. 278; p. 9.

Joiris, Jean L., Wandre, Belgium. Shotgun and like gun. No. 1,351,952; Sept. 7; v. 278; p. 48.

Jones, Charles J., Cheyenne, Wyo. Weather-strip. No. 1,352,276; Sept. 7; v. 278; p. 107.

Jones, Emil J., Jamestown, N. Y. Knockdown sheet-metal drawer. No. 1,352,002; Sept. 7; v. 278; p. 57.

Jones, George G., Cleveland, assignor to Industrial Research Corporation, Toledo, Ohio. Device for removing tires from rims. No. 1,352,135; Sept. 7; v. 278; p. 81.

Jones, John J., Wichita, Kans. Automobile-body construction. No. 1,352,066; Sept. 7; v. 278; p. 68.

Jones, Oliver R., Welland, Ontario, Canada. Wrench. No. 1,352,136; Sept. 7; v. 278; p. 82.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,352,276; Sept. 7; v. 278; p. 108.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,352,277; Sept. 7; v. 278; p. 108.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,352,278; Sept. 7; v. 278; p. 108.

Kallom, F. W., Malden, and P. S. Toennesen, Everett, Mass. Sanding device. No. 1,351,760; Sept. 7; v. 278; p. 9.

Kane, Edmund J. (See Johnston E. H., and Kane.)

Keller, William H. (See Homan, John G., assignor.)

Kennard, Joseph S., Jr., New York, N. Y. Combined motion-picture camera and projector. No. 1,352,003; Sept. 7; v. 278; p. 57.

Kennedy, Joseph, Richmond Hill, assignor to The Clements Co., New York, N. Y. Bolt-anchor. No. 1,352,199; Sept. 7; v. 278; p. 93.

Kennedy, Joseph, Richmond Hill, assignor, by mesne assignments, to The Orsbee Co., Inc., New York, N. Y. Bolt-anchor. No. 1,352,200; Sept. 7; v. 278; p. 93.

Kennedy, Joseph, Richmond Hill, assignor, by mesne assignments, to The Orsbee Co., Inc., New York, N. Y. Bolt-anchor. No. 1,352,201; Sept. 7; v. 278; p. 93.

Kenney, David T., North Plainfield, N. J. Heating system. No. 1,352,371; Sept. 7; v. 278; p. 126.

Kenny, William J. (See Doyle, J. H., and Kenny.)

Kent, Arthur A. (See Richter, William H., assignor.)

Keppel, Jesse E., assignor to International Aerial Navigation Company, St. Louis, Mo. Tail-light signal. No. 1,352,279; Sept. 7; v. 278; p. 108.

Kessel, Fred, New York, N. Y. Caster. No. 1,352,004; Sept. 7; v. 278; p. 58.

Kessler, John H., Binghamton, N. Y. Extension window-screen. No. 1,352,372; Sept. 7; v. 278; p. 126.

Kettering, Charles F., assignor to Delco-Light Company, Dayton, Ohio. System of electrical control. No. 1,351,910; Sept. 7; v. 278; p. 40.

Keyser, Isaac N., Urbana, Ohio. Vermin-exterminator. No. 1,352,067; Sept. 7; v. 278; p. 69.

Kidney, Harvey R., Cleveland, Ohio. Compensating driving mechanism for motor-vehicles. No. 1,351,761; Sept. 7; v. 278; p. 9.

Klewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,352,280; Sept. 7; v. 278; p. 108.

Kimball, A., Company. (See Heine, Herman, assignor.)

King, Bertell W., Brooklyn, N. Y. Means for inscribing unexposed photographic films, plates, or the like. No. 1,351,762; Sept. 7; v. 278; p. 9.

King, Roy D., assignor of one-half to J. Nelson, Chicago, Ill. Spring-die cushion. No. 1,352,911; Sept. 7; v. 278; p. 40.

King, Willis R. (See Todd, E. N., and King.)

Kirkham, Charles B., assignor to Curtiss Aeroplane & Motor Corporation, Buffalo, N. Y. Aeronautical motor. No. 1,351,763; Sept. 7; v. 278; p. 9.

Kleckler, Henry, assignor to Curtiss Aeroplane & Motor Corporation, Hempstead, N. Y. Hoisting connection for airplanes. No. 1,351,764; Sept. 7; v. 278; p. 10.

Kleckler, Henry. (See Curtiss, G. H., and Kleckler.)

Klein, Carl, Wichita, Kans. Metallic fencepost. No. 1,351,912; Sept. 7; v. 278; p. 40.

Kleine, Robert, Chicago, Ill. Radiator-core. No. 1,352,068; Sept. 7; v. 278; p. 69.

Kleinert, I. B., Rubber Company. (See Zwicke, Martin, assignor.)

Klemme, Ernst F., Milwaukee, Wis. Water-closet ventilator. No. 1,351,854; Sept. 7; v. 278; p. 28.

Klunder, Jacob, Grand Rapids, Mich. Direction-indicator and tail-light for vehicles. No. 1,351,913; Sept. 7; v. 278; p. 40.

Knock, Juan F., Lewistown, Ill. Fuel-saver. No. 1,351,855; Sept. 7; v. 278; p. 28.

Knox, Luther L., Avalon, assignor to Blaw-Knox Company, Pittsburgh, Pa. Valve system for reversing furnaces. No. 1,351,914; Sept. 7; v. 278; p. 41.

Knox, Luther L., Avalon, assignor to Blaw-Knox Company, Pittsburgh, Pa. Reversing furnace. No. 1,351,915; Sept. 7; v. 278; p. 41.

Knutsen, Knut, Bergen, Norway. Hatch-cover. No. 1,352,202; Sept. 7; v. 278; p. 94.

Koch, Charles J., assignor to The Sales Service Company, Cincinnati, Ohio. Carrying case for motion-picture projectors. No. 1,351,765; Sept. 7; v. 278; p. 10.

Koch, Gotthardt, Chicago, Ill. Engine-lock. No. 1,352,417; Sept. 7; v. 278; p. 134.

Koetz, Francis M., Woodstock, Ill. Traction-wheel. No. 1,352,281; Sept. 7; v. 278; p. 109.

Kohner, Louis M., Los Angeles, Calif. Oil-burner. No. 1,352,373; Sept. 7; v. 278; p. 126.

Kristofek, Frank J., and H. L. Fischer, St. Paul, Minn. Pencil. No. 1,351,916; Sept. 7; v. 278; p. 41.

Kronman, Edward, New York, N. Y. Coffee-urn. No. 1,352,069; Sept. 7; v. 278; p. 69.

Kucki, Wincent S., Chicago, Ill. Phonograph. No. 1,352,282; Sept. 7; v. 278; p. 109.

Kuhn, Anna O., San Francisco, Calif. Aseptic appliance. No. 1,351,917; Sept. 7; v. 278; p. 41.

Kurek, Edmund. (See Pospisil, R. E., and Kurek.)

La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Machine for making double wall-boxes. No. 1,352,283; Sept. 7; v. 278; p. 109.

La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Blank-feeder. No. 1,352,284; Sept. 7; v. 278; p. 109.

Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Centrifugal pipe-casting. No. 1,351,766; Sept. 7; v. 278; p. 10.

Ladd, James B. Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Method of and apparatus for charging rotating pipe-molds. No. 1,351,767; Sept. 7; v. 278; p. 10.

Lambert, Henry M., Portland, Oreg. Manufacturing tires. No. 1,351,856; Sept. 7; v. 278; p. 29.

Landgraf, Frederick K., assignor to Flannery Bolt Company, Pittsburgh, Pa. Applying and securing staybolt-sleeves to boiler-sheets. No. 1,352,285; Sept. 7; v. 278; p. 110.

Lang, George H., Boston, Mass. Listing-machine. No. 1,352,070; Sept. 7; v. 278; p. 69.

Langley, Kate M. (See Mendal, Henry L., assignor.)

Larimore, George L., Oklahoma, Okla. Fencepost. No. 1,352,203; Sept. 7; v. 278; p. 94.

Larson, Edward E., Thompson, Iowa. Tractor. No. 1,352,286; Sept. 7; v. 278; p. 110.

Larsson, Thure, assignor to Norton Company, Worcester, Mass. Grinding-wheel-balancing device. No. 1,352,005; Sept. 7; v. 278; p. 58.

Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Controlling means. No. 1,352,006; Sept. 7; v. 278; p. 58.

Laughton, R. E., and P. E. Barnes, assignors to Hamel Shoe Machinery Company, Haverhill, Mass. Heel-breasting machine. No. 1,352,007; Sept. 7; v. 278; p. 58.

Lawhead, Lester A., St. Joseph, Mo. Traffic-signal. No. 1,351,857; Sept. 7; v. 278; p. 29.

Lawrence, Emma K. (See Lawrence, Frederick C., assignor.)

Lawrence, Frederick C., assignor to E. K. Lawrence, New York, N. Y. Aeroplane. No. 1,351,918; Sept. 7; v. 278; p. 41.

Lawrence, George L., Jr., assignor to Boston Rubber Shoe Company, Melrose, Mass. Rubber shoe and making same. No. 1,352,008; Sept. 7; v. 278; p. 58.

Lawton, Charles L., Hancock, Mich. Testing device for golf-clubs. No. 1,351,768; Sept. 7; v. 278; p. 10.

Laydon, John, Brooklyn, N. Y., Guard for gas-stove cocks. No. 1,352,287; Sept. 7; v. 278; p. 110.

Leahy, Daniel J. (See Culleton, R. A., and Leahy.)

Le Bras, Louis, New York, N. Y. Pressure-regulator. No. 1,352,288; Sept. 7; v. 278; p. 110.

Leeper, George M., Oakland, Oreg. Drier attachment for stoves. No. 1,352,071; Sept. 7; v. 278; p. 69.

Leimbach, Lizzie T. (See Harrah, Hillis A., assignor.)

Leinweber, Mary C., Weimar, Tex. Horseshoe. No. 1,351,769; Sept. 7; v. 278; p. 10.

Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Yieldable bearing for centrifugal machines. No. 1,352,204; Sept. 7; v. 278; p. 94.

Lelean, Percy S., Westminster, London, England. Disinfecting and destruction of vermin in clothes, bedding, and the like. No. 1,352,289; Sept. 7; v. 278; p. 110.

Lemoine, Louis R., Philadelphia, Pa. assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Gas-burner for pipe-molds. No. 1,351,770; Sept. 7; v. 278; p. 11.

Lenchard, Walter, McKeesport, Pa. Toy pin-board. No. 1,352,137; Sept. 7; v. 278; p. 82.

Leonard, Joseph E., Cedar Rapids, Ind. Tent-stove. No. 1,352,290; Sept. 7; v. 278; p. 111.

Levi, William I., St. Louis, Mo. Curtain-support. No. 1,351,919; Sept. 7; v. 278; p. 42.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Loading-machine. No. 1,351,953; Sept. 7; v. 278; p. 48.

Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,351,771; Sept. 7; v. 278; p. 11.

Lewis, William B. (See von Schlegell, Frederick, and Lewis.)

Libbey, Samuel R., assignor of one-half to S. H. Severson, Brady, Mont. Clamp. No. 1,351,772; Sept. 7; v. 278; p. 11.

Liebermann, Verna B. (See Smith, Harvey G., assignor.)

Liliquist, Victor A., Superior, Wis. Wrench. No. 1,352,009; Sept. 7; v. 278; p. 59.

Lindstrom, John T. (See Delley, Harvey R., assignor.)

Lindstrom, John T., Allentown, and H. R. Delley, Bethlehem, Pa.; said Delley assignor to said Lindstrom. Direction-indicator. No. 1,351,774; Sept. 7; v. 278; p. 11.

Lintern, John B., Cleveland, Ohio. Sanding device. No. 1,352,206; Sept. 7; v. 278; p. 94.

Lintern, William, Cleveland, Ohio. Sanding device. No. 1,352,205; Sept. 7; v. 278; p. 94.

Litchfield, Isaac W., Newtonville, assignor to Litchfield Linoplate Co., Boston, Mass. Printing-plate and making same. No. 1,351,954; Sept. 7; v. 278; p. 48.

Litchfield Linoplate Co. (See Litchfield, Isaac W., assignor.)

Logwood, Charles V., New York, N. Y. Oscillation-generator system. No. 1,351,776; Sept. 7; v. 278; p. 12.

Lokey, Allen T., Memphis, Tex. Cotton-boll-cleaning machine. No. 1,351,858; Sept. 7; v. 278; p. 29.

Lombard, Walter E., Arlington, Mass. Lifting-jack. No. 1,352,207; Sept. 7; v. 278; p. 94.

Long, Frank B., Sacramento, Calif. Articulator for phonographs. No. 1,352,291; Sept. 7; v. 278; p. 111.

Long, George A., assignor of one-fourth to C. Soby, and one-fourth to The Gray Telephone Pay Station Company, Hartford, Conn. System of transmitting intelligence. No. 1,351,775; Sept. 7; v. 278; p. 12.

Lord, Henry C., assignor to General Electric Company, Schenectady, N. Y. Making flow-nozzles. No. 1,352,292; Sept. 7; v. 278; p. 111.

Lovelace, Benjamin F., Baltimore, Md. Producing oxid or oxids of manganese. No. 1,352,208; Sept. 7; v. 278; p. 95.

Lovell, Wesley S., assignor of one-half to R. R. Rockwell, Elmira, N. Y. Gearing. No. 1,352,293; Sept. 7; v. 278; p. 111.

Lowe, Leon P., San Francisco, and F. C. Ruff, Los Angeles, assignors to By-Products Manufacturing Company, San Francisco, Calif. Cracking petroleum. No. 1,351,859; Sept. 7; v. 278; p. 29.

Lowry, Frank J., New Orleans, La. Artificial limb. No. 1,351,955; Sept. 7; v. 278; p. 49.

Lurie, William A., New Orleans, La. Door-lock. No. 1,352,010; Sept. 7; v. 278; p. 59.

Lynn, Walter R. (See Barker, F. R., and Soper.)

Lyster, Fleury J., assignor, by mesne assignments, to Minerals Separation North American Corporation, Broken Hill, New South Wales, Australia. Apparatus for the concentration of ores. No. 1,352,072; Sept. 7; v. 278; p. 69.

McCorkindale, William P., Holyoke, Mass., assignor to Emily K. Dietz, Philadelphia, Pa. Towel-dispensing cabinet. No. 1,351,956; Sept. 7; v. 278; p. 49.

McCormack, Andrew J., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-edge-treating machine. No. 1,352,209; Sept. 7; v. 278; p. 95.

McCormack, Ira A., New York, N. Y. Seal for locks. No. 1,352,073; Sept. 7; v. 278; p. 70.

McCray, Guilford, Tomales, Calif. Egg-washer. No. 1,352,138; Sept. 7; v. 278; p. 82.

McDonough, Joseph G., Eau Claire, Wis. Lumber and timber grading machine. No. 1,351,777; Sept. 7; v. 278; p. 12.

McEown, Frank, New York, N. Y. Safety-razor-blade holder. No. 1,352,011; Sept. 7; v. 278; p. 59.

McFate, Joseph N., Phoenix, Ariz., and H. L. Glaze, Los Angeles, Calif.; said Glaze assignor of four-tenths of his right to said McFate. Tire. No. 1,352,074; Sept. 7; v. 278; p. 70.

McGarry, Henry S., and J. D. Carr, Humble, Tex. Casing-head. No. 1,352,075; Sept. 7; v. 278; p. 70.

McGary, Alexander, *et al.* (See Bear, Claude A., assignor.)

McGinnitey, John F. (See Cox, R. C., and McGinnitey.)

McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,351,860; Sept. 7; v. 278; p. 29.

McGuire, Lawrence. (See Howell, Charles S., assignor.)

McIntosh Battery and Optical Co. (See MacLagan, Hector P., assignor.)

McKenzie, Walter, Tulsa, Okla. Tool-handle. No. 1,352,012; Sept. 7; v. 278. p. 59.

McKnight, Boyd L., assignor of one-half to J. E. Uebele, Washington, D. C. Necktie-pressing device. No. 1,352,294; Sept. 7; v. 278; p. 111.

Mackintosh, Alexander L. (See Riddick, David R., assignor.)

MacLagan, Hector P., Park Ridge, assignor to McIntosh Battery and Optical Co., Chicago, Ill. X-ray cone. No. 1,352,198; Sept. 7; v. 278; p. 93.

Madden, Patrick H., Sparta, Wis. Rail-truck. No. 1,352,076; Sept. 7; v. 278; p. 70.

Madsen, Elith C., Hazleton, Pa. Ash, cinder, and coal separator. No. 1,351,861; Sept. 7; v. 278; p. 30.

Magnuson, Henry O., Chicago, Ill. Molding-machine. No. 1,352,295; Sept. 7; v. 278; p. 112.

Maguth, Michael J., Carlstadt, N. J. Clamping device. No. 1,352,296; Sept. 7; v. 278; p. 112.

Malmberg, Charles J., Jamestown, N. Y. Talking-machine case. No. 1,351,778. Sept. 7; v. 278; p. 12.

Maltby, Frank D. (See Sherman, H. B., and Maltby.)

Mandelbaum, Henry, Brooklyn, N. Y. Compressed-air pump. No. 1,352,013; Sept. 7; v. 278; p. 59.

Marceron, Raymond V., assignor to F. H. Newham, Jr., Washington, D. C. Container and closure therefor. No. 1,351,920; Sept. 7; v. 278; p. 42.

Mariner, Joseph A., Chicago, Ill. Collar-holder. No. 1,352,139; Sept. 7; v. 278; p. 82.

Markwick, Frederick, Detroit, Mich. Sack-fastener. No. 1,351,958; Sept. 7; v. 278; p. 49.

Marshall, Homer F., North Adams, Mass. Picker-stick for looms. No. 1,352,297; Sept. 7; v. 278; p. 112.

Martin, Ernest L., Houston, Tex. Landing device for aeroplanes. No. 1,352,077; Sept. 7; v. 278; p. 71.

Mather, Alonzo C., Chicago, Ill. Electric heater. No. 1,351,779; Sept. 7; v. 278. p. 12.

Matlack, James C., assignor to Notaseme Hosiery Company, Philadelphia, Pa. Stocking. No. 1,352,078; Sept. 7; v. 278; p. 71.

Maupai, Eugene L., New York, N. Y. Dyeing raw silk. No. 1,352,014; Sept. 7; v. 278; p. 5.

Max Ams Machine Company, The. (See Brenzinger, Julius, assignor.)

Maytag Company, The. (See Thompson, Herbert L., assignor.)

Mead, William C., Toronto, Ontario, Canada. Air-valve. No. 1,351,780; Sept. 7; v. 278; p. 12.

Mears, John W., Forest Hills, N. Y. Lubricant distributer and filter for internal-combustion engines. No. 1,352,298; Sept. 7; v. 278; p. 112.

Meeks, Annie L., Gadsden, Ala. Automobile-tire. No. 1,352,375; Sept. 7; v. 278; p. 126.

Mendel, Henry L., assignor of one-fourth to K. M. Langley, Baltimore, Md. Combination cooking device. No. 1,351,921; Sept. 7; v. 278; p. 42.

Mendez, Arsenio F., Camajuani, Cuba. Liquid polish. No. 1,352,015. Sept. 7; v. 278; p. 59.

Menkhaus, John H., Cincinnati, Ohio. Squeegee. No. 1,351,862; Sept. 7; v. 278; p. 30.

Mertz, Emil, Tygh Valley, Oreg. Folding crate. No. 1,352,299; Sept. 7; v. 278; p. 112.

Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)

Meushaw, Thomas H., and C. J. Diez, Baltimore, Md. Fire-plug. No. 1,351,781; Sept. 7; v. 278; p. 13.

Miller, Augustus, East Orange, N. J. Dating-stamp lock. No. 1,352,300; Sept. 7; v. 278; p. 113.

Miller, Jacob H., Cresson, Pa. Grease-cup lid. No. 1,351,922; Sept. 7; v. 278; p. 42.

Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Feeding means for circular knitting-machines. No. 1,352,079; Sept. 7; v. 278; p. 71.

Miller Pasteurizing Machine Company, The. (See Pfouts, Leroy S., assignor.)

Miller Rubber Company, The. (See Riley, Ralph E., assignor.)

Mills, John, assignor to American Telephone and Telegraph Company, Wyoming, N. J. Telephone-repeater. No. 1,351,863; Sept. 7; v. 278. p. 30.

Minerals Separation North American Corporation. (See Lyster, Fleury J., assignor.)

Minnich, Otto J., Boerne, Tex. Fastening device for fence-wires. No. 1,351,959; Sept. 7; v. 278; p. 49.

Miskin, Arthur R., Idaho Falls, Idaho. Earth-scraper. No. 1,352,301; Sept. 7; v. 278; p. 113.

Mitchell, Alexander, Pueblo, Colo. Plow. No. 1,351,782; Sept. 7; v. 278; p. 13.

Mitchell, John E., W. Wolfe, and D. Parks, St. Louis, Mo. Heel-building machine. No. 1,352,302; Sept. 7; v. 278; p. 113.

Mitchell, Raymond C., assignor to The Webster & Perks Tool Company, Springfield, Ohio. Shaft-cooling means for grinding-machines and the like. No. 1,352,303; Sept. 7; v. 278; p. 113.

Mix, Edwin S., assignor to North East Electric Company, Rochester, N. Y. Box. No. 1,352,016; Sept. 7; v. 278; p. 59.

Moeglin, Alfred, Newark, N. J. Internal-combustion engine. No. 1,351,783; Sept. 7; v. 278; p. 13.

Moeller, Gustav W., Harris, Iowa. Accounting and record device. No. 1,351,864; Sept. 7; v. 278; p. 30.

Monarch Lithographing Company. (See Rothenhoefer, Frederick F., assignor.)
Montelius, Ernst E. L., New York, N. Y. Door-lock. No. 1,352,304; Sept. 7; v. 278; p. 113.
Montuori, Felix C., assignor of one-half to C. M. Gearhart, Washington, D. C. Dental casting-machine. No. 1,352,080; Sept. 7; v. 278; p. 71.
Moore, Benjamin S. (See Hellmund, R. E., and Moore.)
Moore, David H., Port Clinton, Ohio. Vehicle-tire. No. 1,352,305; Sept. 7; v. 278; p. 114.
Moran, John F., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,352,081; Sept. 7; v. 278; p. 71.
Morris, Thomas F. Waterford, N. Y. Snap-fastener. No. 1,352,374; Sept. 7; v. 278; p. 126.
Morrison, David. (See Cattin, G. L., and Morrison.)
Morse Chain Company. (See Morse, Frank L., assignor.)
Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Multiplate drive-chain. No. 1,352,017; Sept. 7; v. 278; p. 60.
Moskowitz, Louis. (See Cohon, J., and Moskowitz.)
Mott, Robert L., St. Louis, Mo. Syringe. No. 1,352,306; Sept. 7; v. 278; p. 114.
Mount, William D., Saltville, Va., assignor to Nitrogen Products Company, Providence, R. I. Apparatus for recovering material from solution. No. 1,352,210; Sept. 7; v. 278; p. 95.
Moyers, Oscar C., assignor of one-fourth to W. A. Moyers, Crosbyton, Tex. Flash-eliminator. No. 1,351,960; Sept. 7; v. 278; p. 49.
Moyers, William A. (See Moyers, Oscar C., assignor.)
Müller, Emil, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Homologue of tropine and producing same. No. 1,352,082; Sept. 7; v. 278; p. 71.
Mullis, Charles, Manufacturing Company. (See Williams, James A., assignor.)
Muraski, Stanley, Waterbury, Conn. Lock. No. 1,352,018; Sept. 7; v. 278; p. 60.
Murphy, Edwin J., assignor to General Electric Company, Schenectady, N. Y. Electromagnetic device. No. 1,352,307; Sept. 7; v. 278; p. 114.
Murphy, George F., Pittsburgh, Pa. Casing for shaft-joints. No. 1,352,019; Sept. 7; v. 278; p. 60.
Murphy, Thomas I., St. Lawrence, S. D. Solution for treatment of iron and steel. No. 1,351,961; Sept. 7; v. 278; p. 50.
Murray, Donald, London, England, assignor to The Western Telegraph Company, New York, N. Y. Paper-feed mechanism for printing-telegraphs, &c. No. 1,352,308; Sept. 7; v. 278; p. 114.
Myers, Laura M., Chicago, Ill. Game or toy. No. 1,352,309; Sept. 7; v. 278; p. 115.
Nagelvoort, Adriaan, assignor to The Nitrogen Corporation, Providence, R. I. Producing sodium bicarbonate and hydrogen. No. 1,352,211; Sept. 7; v. 278; p. 95.
Napier, Charles, assignor to Napier Saw Works, Inc., Springfield, Mass. Tempered blade. No. 1,352,140; Sept. 7; v. 278; p. 82.
Napier Saw Works. (See Napier, Charles, assignor.)
Nash, Thomas H., St. Pauls Cray, England. Beating and refining engine. No. 1,351,962; Sept. 7; v. 278; p. 50.
National Brake & Electric Company. (See Aikman, Burton S., assignor.) (Reissue.)
Nelson, Ephriam H., Yale, Iowa. Tank-rack. No. 1,351,923; Sept. 7; v. 278; p. 42.
Nelson, John. (See King, Roy D., assignor.)
Newcomb, E. C., Scituate, Mass., and L. L. Scott, assignors to Standard Engineering Company, St. Louis, Mo. Controlling device for electric circuits. No. 1,352,212; Sept. 7; v. 278; p. 95.
Newham, Frank H., Jr. (See Merceron, Raymond V., assignor.)
Nicholas Power Company. (See Power, Nicholas, assignor.)
Nicholas Power Company. (See Uhlemann, Theodore F., assignor.)
Nicol, David S., assignor to Shawinigan Electro-Metals Company, Limited, Montreal, Quebec, Canada. Manufacture of magnesium powder. No. 1,351,865; Sept. 7; v. 278; p. 31.
Nicosia, Vincent, Waco, Tex. Hair-clipper. No. 1,351,924; Sept. 7; v. 278; p. 43.
Nissen, Louis H., *et al.* (See Procunier, Frank R., assignor.)
Nitrogen Corporation, The. (See Clancy, John C., assignor.)
Nitrogen Corporation, The. (See Nagalvoort, Adriaan, assignor.)
Nitrogen Products Company. (See Hidden, Charles P., assignor.)
Nitrogen Products Company. (See Mount, William D., assignor.)
Nitrogen Products Company. (See Williams, Roger, assignor.)
Nitsch, Charles H. (See Weightman, W. A., and Nitsch.)
Noble, Donald, assignor to The Singer Manufacturing Company, Bridgeport, Conn. Sewing-machine. No. 1,351,866; Sept. 7; v. 278; p. 31.
North East Electric Company. (See Mix, Edwin S., assignor.)
Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Thread parting and clamping mechanism. No. 1,352,083; Sept. 7; v. 278; p. 72.
Norton Company. (See Larsson, Thure, assignor.)
Norton Company. (See Saunders, Lewis E., assignor.)
Notaseme Hosiery Company. (See Matlack, James C., assignor.)
Noyes, Charles W., administrator. (See Gorton, Robert.)
Oakes, Oliver E., Asbury, Mo. Compensating apparatus for well-digging outfits. No. 1,351,867; Sept. 7; v. 278; p. 31.
Olson, Andrew P., Chicago, Ill. Golf-club. No. 1,352,020; Sept. 7; v. 278; p. 60.
Olson, Carl S., Troy, Idaho. Automatic speed-regulator. No. 1,352,310; Sept. 7; v. 278; p. 115.
O'Meara, Michael J., Anderson, Ind. Child's vehicle. No. 1,352,213; Sept. 7; v. 278; p. 95.
O'Neil, Rodolph S., assignor to O'Neil's Recorder Syndicate Limited, London, England. Contact of electrical switch-gears. No. 1,351,963; Sept. 7; v. 278; p. 50.
O'Neil's Recorder Syndicate. (See O'Neil, Rodolph S., assignor.)
Oppenheimer, Edgar A., Chicago, Ill. Chuck for ribbon winding-machines. No. 1,352,376; Sept. 7; v. 278; p. 127.
Opperman, Otto R., London, England. Manufacture of toothed bevel gear-wheels or crown-wheels. No. 1,352,021; Sept. 7; v. 278; p. 60.
Orbin, George, assignor of one-third to C. M. Hays, Hoboken, N. J. Spring-cushion tire. No. 1,351,784; Sept. 7; v. 278; p. 13.
Orofino, Michele, Philadelphia, Pa. Garbage-can. No. 1,351,964; Sept. 7; v. 278; p. 50.
Orres, Olaf B. (See Peterson, Peter J. A., assignor.)
Orsbee Co., The. (See Kennedy, Joseph, assignor.)
Osborn, Henry C. (See Parkes, Walter, assignor.)
Outcalt, Andrew S., Ironton, Wis. Running-gear for wagons and automobiles. No. 1,352,141; Sept. 7; v. 278; p. 82.
Page, George E., assignor of one-half to P. C. Zaenglein, Rochester, N. Y. Machine for pasteurizing milk and other liquids. No. 1,352,214; Sept. 7; v. 278; p. 95.
Paige, Arthur E., Philadelphia, Pa. Multifocal optical element and method and means for making same. No. 1,351,785; Sept. 7; v. 278; p. 14.
Pajalic, Antonio, Dearborn, Mich. Breather for gas-engines. No. 1,352,022; Sept. 7; v. 278; p. 60.
Palmer, Harry R., Harrisburg, Pa. Smoke-filter and forced-draft device for furnaces. No. 1,352,142; Sept. 7; v. 278; p. 83.
Parker, Thomas T., Brooklyn, N. Y. Feed-water heater and purifier. No. 1,352,023; Sept. 7; v. 278; p. 61.
Parkes, Walter, assignor, by mesne assignments, to H. C. Osborn, Cleveland, Ohio. Motion-picture camera. No. 1,352,143; Sept. 7; v. 278; p. 83.
Parkes, Walter, assignor, by mesne assignments, to H. C. Osborn, Cleveland, Ohio. Mechanism for feeding films. No. 1,352,144; Sept. 7; v. 278; p. 83.
Parks, Dennis. (See Mitchell, J. E., Wolfe, and Parks.)
Pawling and Harnischfeger Company. (See Weickel, Henry, assignor.)
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,352,412; Sept. 7; v. 278; p. 133.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,352,413; Sept. 7; v. 278; p. 133.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Breech lubrication. No. 1,352,414; Sept. 7; v. 278; p. 133.
Peckham, Joseph E., Newton Highlands, Mass. Shank-stiffener. No. 1,352,024; Sept. 7; v. 278; p. 61.
Penquite, Maynard E., Colfax, Iowa. Sash-fastener. No. 1,351,868; Sept. 7; v. 278; p. 31.
Peterson, Oscar F. (See Smith, Jonathan J., assignor.)
Peterson, Peter J. A., assignor of one-half to O. B. Orres, Pine River, Minn. Nut-lock and rail-joint protector. No. 1,351,786; Sept. 7; v. 278; p. 14.
Petti, Ralph, assignor to The Singer Manufacturing Company, Bridgeport, Conn. Sewing-machine loop-taker. No. 1,351,869; Sept. 7; v. 278; p. 31.
Peyer, John, New York, N. Y. Tool for alining and fitting machine parts. No. 1,352,311; Sept. 7; v. 278; p. 115.
Pfouts, Leroy S., assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Liquid-treating apparatus. No. 1,352,215; Sept. 7; v. 278; p. 96.
Phelps, Benson M. (See Johnson, B. H., and Phelps.)
Phelps, William S. (See Johnson, B. H., and Phelps, assignors.)
Philadelphia Textile Machinery Company, The. (See Blatz, Frederick J., assignor.)
Pierce, James F., Glynrich, assignor to American Vulcanized Fibre Co., Wilmington, Del. Apparatus for forming tubes. No. 1,351,870; Sept. 7; v. 278; p. 32.
Pierson, Willett C., Cleveland, Ohio. Obtaining products from films. No. 1,352,216; Sept. 7; v. 278; p. 96.
Pines, Wilson, Rogers, Mich. Conveyer. No. 1,352,312; Sept. 7; v. 278; p. 115.
Plummer, Robert S., assignor to American Briquet Company, Philadelphia, Pa. Briquet-drier. No. 1,352,377; Sept. 7; v. 278; p. 127.
Podien, Jakob, Chicago, Ill. Car-replacer. No. 1,351,965; Sept. 7; v. 278; p. 50.
Pospisil, Rudolph E., Chippewa Falls, and E. Kurek, Madison, Wis., assignors of two-thirds to said Pospisil and one-third to said Kurek. Sugar process. No. 1,352,084; Sept. 7; v. 278; p. 72.
Postma, John, Loleta, Calif. Can-punch. No. 1,352,378; Sept. 7; v. 278; p. 127.

Pounder, Harry, Galion, Ohio. Hinge for doors of burial-vaults. No. 1,352,379; Sept. 7; v. 278; p. 127.
Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Selective signaling system. No. 1,352,217; Sept. 7; v. 278; p. 96.
Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Safety device for moving-picture machines. No. 1,352,218; Sept. 7; v. 278; p. 96.
Powers Accounting Machine Company. (See Lasker, William W., assignor.)
Prell, Henry, Cleveland, Ohio. Vibrator. No. 1,352,219; Sept. 7; v. 278; p. 97.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,352,025; Sept. 7; v. 278; p. 61.
Prew, Raymond, Detroit, Mich. Auger. No. 1,352,313; Sept. 7; v. 278; p. 115.
Price, Thornton W., New York, N. Y. Ingot-stripper. No. 1,352,026; Sept. 7; v. 278; p. 61.
Pridmore, Edward A., La Grange, Ill. Molding-machine. No. 1,351,871; Sept. 7; v. 278; p. 32.
Prisbrey, George W., assignor of one-sixth to B. Carpenter and one-sixth to R. Fawcett, St. George, Utah. Portable metal-turning lathe. No. 1,352,380; Sept. 7; v. 278; p. 127.
Procunier, Frank R., assignor of one-fourth to J. C. Stryker, one-fourth to L. N. Turner, and one-fourth to L. H. Nissen, Chicago, Ill. Automobile-bumper. No. 1,352,220; Sept. 7; v. 278; p. 97.
Quinby, George F., Dorchester, Mass. Innersole-applying device. No. 1,352,145; Sept. 7; v. 278; p. 83.
Radium Luminous Material Corporation. (See Willis, Paul M., assignor.)
Radtke, Milton L., Detroit, Mich. Adjustable clamp. No. 1,351,966; Sept. 7; v. 278; p. 50.
Raymer, Morris. (See Johnson, H. L., and Raymer.)
Rece, Frank S., Dallas, Tex. Joint for metallic structures. No. 1,351,967; Sept. 7; v. 278; p. 51.
Reece Button Hole Machine Company, The. (See Kiewicz, John, assignor.)
Reece Shoe Machinery Company. (See Schoenky, August R., assigner.)
Reifsnyder, James D., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Machine for sealed wrapped packages. No. 1,352,221; Sept. 7; v. 278; p. 97.
Remy Electric Company. (See Conklin, Oliver F., assignor.)
Renault, Louis. (See Fuchs, Ernest, assignor.)
Reynolds, John J., Rantoul, Ill. Antijounce-spring construction. No. 1,351,968; Sept. 7; v. 278; p. 51.
Reynolds, Joy S., assignor to Reynolds Torch Manufacturing Company, Seattle, Wash. Oxyacetylene-torch for cutting tubes. No. 1,352,381; Sept. 7; v. 278; p. 128.
Reynolds Torch Manufacturing Company. (See Reynolds, Joy S., assignor.)
Richter, William H., Philadelphia, assignor to A. A. Kent, Ardmore, Pa. Condenser unit and making same. No. 1,351,787; Sept. 7; v. 278; p. 14.
Ricke, George H., Cincinnati, Ohio. Skate. No. 1,351,925; Sept. 7; v. 278; p. 43.
Ricketts, Lawrence M., assignor of one-half to W. A. Harman, Baltimore, Md. Steel wheel. No. 1,352,146; Sept. 7; v. 278; p. 84.
Riddick, David R., Rawlins, Wyo., assignor of one-half to A. L. Mackintosh, Denver, Colo. Garment-hanger. No. 1,352,382; Sept. 7; v. 278; p. 128.
Rigby, Holden, Paterson, N. J. Lubricating means for leaf-springs. No. 1,352,314; Sept. 7; v. 278; p. 116.
Riley, Ralph E., Akron, Ohio, assignor to The Miller Rubber Company. Mechanism for manufacturing rubber bathing-caps. No. 1,352,383; Sept. 7; v. 278; p. 128.
Rimailho, Emile, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Compound crawler. No. 1,352,315; Sept. 7; v. 278; p. 116.
Ringer, Luther, assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y. Cab-signal system. No. 1,351,943; Sept. 7; v. 278; p. 46.
Rishel, Arthur B., Goddard, Kans. Vacuum snow-sweep. No. 1,352,384; Sept. 7; v. 278; p. 128.
Rissman, Henry L., Chicago, Ill. Garment. No. 1,352,027; Sept. 7; v. 278; p. 61.
Robinson, Albert E. (See Sosa, A. M., Robinson, and Schatz.)
Robinson, H. G., and L. K. Stinson, Los Angeles, Calif. Carbureter. No. 1,352,316; Sept. 7; v. 278; p. 116.
Rockwell, Robert R. (See Lovell, Wesley S., assignor.)
Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company Limited, Deptford, England. Car-lighting system. No. 1,351,788; Sept. 7; v. 278; p. 14.
Roofing Patents Company, The. (See Speer, Alexander S., assignor.)
Rose, James R., Edgeworth, Pa. Process of and apparatus for producing carbon and gaseous fuel. No. 1,352,085; Sept. 7; v. 278; p. 72.
Rose, James R., Edgeworth, Pa. Producing carbon and gaseous fuel. No. 1,352,086; Sept. 7; v. 278; p. 72.
Rosen, Paul E., Madison, Wis. Garter. No. 1,351,872; Sept. 7; v. 278; p. 32.
Ross, Frank E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic objective. No. 1,352,028; Sept. 7; v. 278; p. 61.
Rothenhoefer, Frederick F., Covington, Ky., assignor to The Monarch Lithographing Company, Cincinnati, Ohio. Fan. No. 1,352,385; Sept. 7; v. 278; p. 128.
Rowley, James F., Chicago, Ill. Fitting artificial limbs. No. 1,351,789; Sept. 7; v. 278; p. 14.
Rudin, Karl V., Stockholm, Sweden. Calculating-machine. No. 1,352,029; Sept. 7; v. 278; p. 62.
Rudin, Karl V., Stockholm, Sweden. Step-by-step mechanism in calculating-machines. No. 1,352,030; Sept. 7; v. 278; p. 62.
Rudolph, Raymond H., Elgin, assignor of one-half to C. Friedman, Chicago, Ill. Leather-stitching machine. No. 1,352,222; Sept. 7; v. 278; p. 98.
Rudolph, William R., Glenbrook, Conn. Christmas-tree ornament and making same. No. 1,351,790; Sept. 7; v. 278; p. 14.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery. No. 1,352,087; Sept. 7; v. 278; p. 72.
Ruff, Frederick C. (See Lowe, L. P., and Ruff.)
Rundberg, Otto, Spokane, Wash. Rake attachment. No. 1,352,386; Sept. 7; v. 278; p. 128.
Runke, Richard B. (See Allen, William M., assignor.)
Saal, Henry G., Chicago, Ill. Speed-governor. No. 1,352,223; Sept. 7; v. 278; p. 98.
Saal, Henry G., Chicago, Ill. Turntable for phonographs. No. 1,352,224; Sept. 7; v. 278; p. 98.
Sala, Thomas, and M. Butera, Pittsburgh, Pa. Ice-creeper. No. 1,352,088; Sept. 7; v. 278; p. 73.
Sales Service Company, The. (See Koch, Charles J., assignor.)
Sanford, Lottie. (See Church, Ira, assignor.)
Sanford, Percy P., Woodridge, N. Y. Fountain-pen. No. 1,351,873; Sept. 7; v. 278; p. 32.
Sargeant, Arthur C., Agawam, Mass. Door-stop. No. 1,352,147; Sept. 7; v. 278; p. 84.
Sargent, Herbert W., assignor to Sargent Tile Ditcher Company, Fort Dodge, Iowa. Gathering conveyer-bucket. No. 1,351,791; Sept. 7; v. 278; p. 15.
Sargent Tile Ditcher Company. (See Sargent, Herbert W., assignor.)
Sargent, William H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,352,225; Sept. 7; v. 278; p. 98.
Satterlee, John P., Klamath Falls, Oreg. Auditorium, assembly-room, or theater chair or bench. No. 1,252,415; Sept. 7; v. 278; p. 134.
Saunders, Lewis E., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Converting refractory oxids. No. 1,352,387; Sept. 7; v. 278; p. 129.
Saunders, Lewis E., assignor to Norton Company, Worcester, Mass. Shrinking magnesia. No. 1,352,388; Sept. 7; v. 278; p. 129.
Sawyer, Harry, assignor to Shaw Electric Crane Company, Muskegon, Mich. Brake mechanism for hoisting machinery. No. 1,351,792; Sept. 7; v. 278; p. 15.
Sawyer, Marion B. (See Hanson, H. L., and Sawyer.)
Saxon, Herman H., assignor, by mesne assignments, to Electric Auto-Lite Corporation, Toledo, Ohio. Commutator. No. 1,351,926; Sept. 7; v. 278; p. 43.
Schaffner, George H., Detroit, Mich. Illuminated sign. No. 1,352,031; Sept. 7; v. 278; p. 62.
Schaller, Jacob J., Chicago, Ill. Cement composition. No. 1,351,874; Sept. 7; v. 278; p. 32.
Schatz, Herman W. (See Sosa, A. M., Robinson, and Schatz.)
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,352,089; Sept. 7; v. 278; p. 73.
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,352,148; Sept. 7; v. 278; p. 84.
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,352,149; Sept. 7; v. 278; p. 84.
Schmidt, Edwin H., Inspiration, Ariz. Ball-mill. No. 1,351,793; Sept. 7; v. 278; p. 15.
Schmidt, William F., Freeburg, Ill. Shot-firing device. No. 1,351,794; Sept. 7; v. 278; p. 15.
Schnabel, Fritz W., Chicago, Ill. Attachment for ladders. No. 1,351,795; Sept. 7; v. 278; p. 15.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie, Paris, France. Recorder for fluid-pressure press. No. 1,352,150; Sept. 7; v. 278; p. 84.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for repeating automatically on a railway-locomotive track-signals provided for the protection of moving trains. No. 1,352,389; Sept. 7; v. 278; p. 129.
Schnell, Lawrence J., Portland, Oreg. Lock-nut. No. 1,352,090; Sept. 7; v. 278; p. 73.
Schoenky, August, R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Stopping and starting mechanism. No. 1,352,226; Sept. 7; v. 278; p. 98.
Schofield, Frederick C., assignor, by direct and mesne assignments, to The Hillfield Body Company, Salem, Va. Dumping vehicle. No. 1,351,796; Sept. 7; v. 278; p. 15.
Schram Glass Manufacturing Co. (See Drey, L. A., and Hiatt, assignors.)

Schreiber, Edward A., assignor, by mesne assignments, to Vapor Car Heating Company, Inc., Chicago, Ill. Coupling for railway train-pipes. No. 1,351,875; Sept. 7; v. 278; p. 32.

Schumacher, John, Los Angeles, Calif. Plaster-board and making same. No. 1,352,390; Sept. 7; v. 278; p. 119.

Schwartz, Michael, assignor to Automatic Electric Company, Chicago, Ill. Semiautomatic telephone system. No. 1,351,870; Sept. 7; v. 278; p. 32.

Schwarz, Frederick, Berne, Ind. Swing. No. 1,352,317; Sept. 7; v. 278; p. 116.

Schwerin, Carl. (See Wais, Charles C., assignor.)

Scott, Lewis L. (See Newcomb, E. C., and Scott.)

Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Combustion system. No. 1,352,227; Sept. 7; v. 278; p. 99.

Sellers, William F., Wilmington, Del., assignor to Edge Moor Iron Company, Edgemoor, Del. Metallic baffle-plate. No. 1,351,797; Sept. 7; v. 278; p. 16.

Seety, Leopold, Bridgeport, Conn. Lifeboat. No. 1,352,318; Sept. 7; v. 278; p. 116.

Severson, Sanford H. (See Libbey, Samuel R., asignor.)

Shand, E. Blake, Detroit, Mich. Splicer for sash straps and cords. No. 1,352,091; Sept. 7; v. 278; p. 73.

Shaw Electric Crane Company. (See Sawyer, Harry, assignor.)

Shawinigan Electro-Metals Company. See Nicol, David S., assignor.)

Sherman, Howard B. (See Hofmann, William G., assignor.)

Sherman, Howard B., Battle Creek, Mich. Electrical connector. No. 1,352,032; Sept. 7; v. 278; p. 62.

Sherman, Howard B., Battle Creek, Mich. Making connectors. No. 1,352,034; Sept. 7; v. 278; p. 62.

Sherman, Howard B., and F. D. Maltby, said Maltby assignor to said Sherman, Battle Creek, Mich. Electrical connection for spark-plugs, &c. No. 1,352,033; Sept. 7; v. 278; p. 62.

Sherman, Howard B., and F. D. Maltby, Battle Creek, Mich.; said Maltby assignor to said Sherman. Spring clasping terminal for electric connectors. No. 1,352,092; Sept. 7; v. 278; p. 73.

Shippert, Warren A., Chicago, Ill. Stripping device for milking-machines. No. 1,351,798; Sept. 7; v. 278; p. 16.

Shotwell, Marcus A., Miami, Fla. Tire cover or protector. No. 1,352,093; Sept. 7; v. 278; p. 73.

Simmer Automatic Railway Signal Company, The. (See Ringer, Luther, assignor.)

Simonson, Sigvard, Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Yoke for railway draft-gears. No. 1,352,151; Sept. 7; v. 278; p. 84.

Simonson, Sigvard, Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Manufacture of railway draft-gears. No. 1,352,152; Sept. 7; v. 278; p. 85.

Simpson, David B., Wichita, Kans. Friction brake-band. No. 1,351,927; Sept. 7; v. 278; p. 43.

Singer Manufacturing Company, The. (See Noble, Donald, assignor.)

Singer Manufacturing Company, The. (See Petti, Ralph, assignor.)

Sitney, Massey, Brooklyn, N. Y. Mobile armament. No. 1,351,928; Sept. 7; v. 278; p. 43.

Slocomb, F. F., & Co., Incorporated. (See Flanagan, James U., assignor.)

Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,351,799; Sept. 7; v. 278; p. 16.

Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,351,800; Sept. 7; v. 278; p. 17.

Smallwood, Alfred, London, England. Furnace. No. 1,351,801; Sept. 7; v. 278; p. 17.

Smith, David J., Jr., Washington, D. C. Motor-operated gun. No. 1,352,319; Sept. 7; v. 278; p. 116.

Smith, Douglas. (See Smith, Elizabeth J., and D.)

Smith, Elizabeth J. and D., Larchmont, N. Y. Snap-fastener. No. 1,352,153; Sept. 7; v. 278; p. 85.

Smith, Harvey G., Los Angeles, assignor of one-half to V. B. Liebmann, San Diego, Calif. Windshield. No. 1,352,094; Sept. 7; v. 278; p. 74.

Smith, Jonathan J., assignor of one-half to O. F. Petersen, Des Moines, Iowa. Hot-blast downdraft-furnace. No. 1,351,803; Sept. 7; v. 278; p. 17.

Smith, Lincoln G., Des Moines, Iowa. Boiler-furnace. No. 1,351,802; Sept. 7; v. 278; p. 17.

Smith, Raymond A., Kinsley, Kans. Farm-derrick. No. 1,352,035; Sept. 7; v. 278; p. 62.

Smith, Sol. L. (See Gerau, George, assignor.)

Smith, Walter H., Oklahoma, Okla. Cuff-button. No. 1,352,095; Sept. 7; v. 278; p. 74.

Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve. No. 1,352,036; Sept. 7; v. 278; p. 63.

Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Vehicle tail-lamp. No. 1,352,096; Sept. 7; v. 278; p. 74.

Sohr, Charles, *et al.* (See Long, George A., assignor.)

Societa Anonima Stabilimenti Biak. (See Tedesco, Arrigo, assignor.)

Societe Chimique des Usines du Rhone, Anciennement Gilliard, P. Monnet et Cartier. (See Beudet, Maurice, assignor.)

Solberg, Knut E., Philadelphia, Pa. Measuring-calipers. No. 1,351,804; Sept. 7; v. 278; p. 17.

Sonander, Andrew, assignor to Howe Scale Company, Rutland, Vt. Scale. No. 1,352,097; Sept. 7; v. 278; p. 74.

Sosa, Augustus M., A. E. Robinson, Cincinnati, and H. W. Schatz, Norwood, assignors to The American Tool Works Company, Cincinnati, Ohio. Feeding mechanism for metal-working machinery. No. 1,351,969; Sept. 7; v. 278; p. 51.

Sosa, Augustus M., A. E. Robinson, Cincinnati, and H. W. Schatz, Norwood, assignors to The American Tool Works Company, Cincinnati, Ohio. Feeding mechanism for metal-working machinery. No. 1,351,970; Sept. 7; v. 278; p. 51.

Sounders, Herbert V., Wilmington, Calif. Trammel-point. No. 1,352,320; Sept. 7; v. 278; p. 117.

Southard, Francis C., and H. G., Southampton, England. Machine for rolling in the baseplates of high-explosive shells and such like. No. 1,352,321; Sept. 7; v. 278; p. 117.

Southard, Henry G. (See Southard, F. C., and H. G.)

Specialty Automatic Machine Company. (See La Bombard, Leon E., assignor.)

Speckman, Frederick, St. Louis, Mo. Mop-wringer. No. 1,351,805; Sept. 7; v. 278; p. 18.

Speer, Alexander S., Chicago, Ill., assignor to The Roofing Patents Company. Apparatus for cutting roofing-sheets. No. 1,352,154; Sept. 7; v. 278; p. 85.

Speirs, Stuart, New York, N. Y. Brush. No. 1,352,228; Sept. 7; v. 278; p. 99.

Staley, Joseph H., Knightstown, Ind. Press for removing bushings and the like. No. 1,352,098; Sept. 7; v. 278; p. 74.

Standard Engineering Company. (See Newcomb, E. C., and Scott, assignors.)

Standard Engineering Company. (See Scott, Lewis L., assignor.)

Stanley, Robert C., New Brighton, assignor to The International Nickel Company, New York, N. Y. Separating nickel and copper from copper-nickel mattes or materials. No. 1,351,877; Sept. 7; v. 278; p. 33.

Star Device Manufacturing Company. (See Stone, Lloyd B., assignor.)

Starling, S. G., Forest Gate, and A. J. Hughes, assignors to Henry Hughes and Son Limited, London, England. Anemometer. No. 1,352,391; Sept. 7; v. 278; p. 129.

Stay, Theron D., assignor to The Aluminum Castings Company, Cleveland, Ohio. Metallic alloy and making same. No. 1,352,322; Sept. 7; v. 278; p. 117.

Steel Products Company, The. (See Bishop, Ashley L., assignor.)

Steen, John L., Waukegan, Ill. Lock. No. 1,351,806; Sept. 7; v. 278; p. 18.

Steigerwald, Edward, Philadelphia, Pa. Trump-indicating device. No. 1,351,971; Sept. 7; v. 278; p. 51.

Stephan, Joban, Clifton, N. J. Safety device for ladders. No. 1,352,323; Sept. 7; v. 278; p. 117.

Stevens, Howard M., assignor of one-half to R. T. Hodges, Somerset, Ky. Lubricating device for valves and cylinders of superheating-locomotives. No. 1,351,807; Sept. 7; v. 278; p. 18.

Stevens, William C., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Machine and building tires. No. 1,352,099; Sept. 7; v. 278; p. 75.

Stevenson, Charles M., Chicago, Ill., assignor to Stevenson Mfg. Co., Barton, Wis. Inclosure, pen, fence, and the like. No. 1,352,392; Sept. 7; v. 278; p. 129.

Stevenson Mfg. Co. (See Stevenson, Charles M., assignor.)

Stewart, Sylvester N., Dayton, Ohio. Composite railway car. No. 1,351,972; Sept. 7; v. 278; p. 52.

Stickney, Burnham C. (See Thomas, E., and Stickney.)

Stiles, Dewey E., Los Angeles, Calif. Film-retouching holder. No. 1,352,037; Sept. 7; v. 278; p. 63.

Stinson, Lewis K. (See Robinson, H. G., and Stinson.)

Stokes, Jos., Rubber Company. (See Boyer, Harry L., assignor.)

Stokes, Joseph, Rubber Company. (See Boyer, Harry L., assignor.)

Stokes & Smith Company. (See Reifsnyder, James D., assignor.)

Stokes & Smith Company. (See Weightman, W. A., and Nitsch, assignors.)

Stone, J., & Company. (See Rohman, Harry D., assignor.)

Stone, Lloyd B., Tacoma, assignor to Star Device Manufacturing Company, King county, Wash. Switch-lock. No. 1,351,973; Sept. 7; v. 278; p. 52.

Storm, Gustav F., Sanborn, Iowa. Ditch-filler. No. 1,352,155; Sept. 7; v. 278; p. 85.

Storm, Gustav F., Sanborn, Iowa. Eye-guard. No. 1,352,156; Sept. 7; v. 278; p. 85.

Straight, Halver R., Adel, Iowa. Drain-tile. No. 1,351,878; Sept. 7; v. 278; p. 33.

Strain, Charles M., Crawfordsville, Iowa. Disk-sharpening machine. No. 1,352,324; Sept. 7; v. 278; p. 117.

Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)

Stryker, Jesse C., *et al.* (See Procunier, Frank R., assignor.)

Stuart, Edwards B., Chicago, Ill. Typewriting-machine. No. 1,352,229; Sept. 7; v. 278; p. 99.

Stubblefield, John A., Oregon City, Oreg. Nut-lock. No. 1,351,974; Sept. 7; v. 278; p. 52.

Suckoff, Louis A., Chicago, Ill. Spring-inserting tool. No. 1,352,157; Sept. 7; v. 278; p. 85.

Sullivan, Ward, Sidney, Ohio. Fruit-peeler. No. 1,352,325; Sept. 7; v. 278; p. 117.

Sullivan, William E., Roodhouse, Ill. Truck. No. 1,351,808; Sept. 7; v. 278; p. 18.

Surface, William E., assignor to Farics Manufacturing Co., Decatur, Ill. Shade-holder for electric-light bulbs. No. 1,351,879; Sept. 7; v. 278; p. 33.

Surprise, Joseph, New Haven, Conn. Track for sliding doors. No. 1,352,100; Sept. 7; v. 278; p. 75.

Sutherland, Forrest A., assignor to Great Northern Paper Company, Millinocket, Me. Wrapping-machine. No. 1,351,809; Sept. 7; v. 278; p. 19.

Swales, Albert B., London, England. Cabinet. No. 1,352,101; Sept. 7; v. 278; p. 75.

Swatzell, David N., assignor of one-fourth to B. P. Cox, one-fourth to R. C. Adcock, and one-fourth to W. A. Swatzell, Birmingham, Ala. Motor-driven hair-clipper. No. 1,352,326; Sept. 7; v. 278; p. 118.

Swatzell, W. A., *et al.* (See Swatzell, David N., assignor.)

Sweeney, Frank H., San Francisco, Calif. Direction-indicator for vehicles. No. 1,352,327; Sept. 7; v. 278; p. 118.

Szekely, Ernest, assignor to American Blower Company, Detroit, Mich. Manometer. No. 1,352,038; Sept. 7; v. 278; p. 63.

Tarrant, Roy C. (See Anderegg, George, assignor.)

Tatro, Adelor E., Everett, Mass. Pipe-fitting. No. 1,352,102; Sept. 7; v. 278; p. 75.

Tausch, Joseph H., Chicago Ridge, Ill., assignor to G. Gorton, Racine, Wis. Fence-machine. No. 1,351,810; Sept. 7; v. 278; p. 19.

Taylor, Ernest J., Everett, Mass. Mold and forming porcelain insulators therein. No. 1,351,929; Sept. 7; v. 278; p. 43.

Taylor, Harry H., Hutchinson, Kans. Electric generator attachment for windmills. No. 1,351,975; Sept. 7; v. 278; p. 52.

Tedesco, Arrigo, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy. Alloy having high mechanical, chemical, and electrical resistance. No. 1,351,811; Sept. 7; v. 278; p. 19.

Thibert, Napoleon B., Worcester, Mass. Lock-nut. No. 1,352,103; Sept. 7; v. 278; p. 75.

Thomas, Edward, New York, N. Y., and B. C. Stickney, Elizabeth, N. J., assignors to Underwood Computing Machine Company, New York, N. Y. Typewriting-machine. No. 1,351,812; Sept. 7; v. 278; p. 19.

Thomas, James F., Clarinda, Iowa. Garment-pressing device. No. 1,352,158; Sept. 7; v. 278; p. 86.

Thompson, Albert R., assignor to Anderson-Barn-Grover Mfg. Co., San Jose, Calif. Fruit and vegetable washer. No. 1,352,393; Sept. 7; v. 278; p. 130.

Thompson, Frank P., *et al.* (See Bredsvold, Paul A., assignor.)

Thompson, Herbert L., Elgin, Ill., assignor to The Maytag Company, Newton, Iowa. Internal-combustion engine. No. 1,351,880; Sept. 7; v. 278; p. 34.

Thompson, William P., Liverpool, England. Flying-machine. No. 1,351,976; Sept. 7; v. 278; p. 52.

Thomson, John, Brooklyn, N. Y. Electric furnace. No. 1,351,977; Sept. 7; v. 278; p. 52.

Todd, E. N., Milburn, and W. R. King, assignors to The Hanson & Van Winkle Company, Newark, N. J. Nickel plating. No. 1,352,328; Sept. 7; v. 278; p. 118.

Toennesen, Peter S. (See Kallom, F. W., and Toennesen.)

Tokanos, Frank, Long Branch, N. J. Automobile safety-signal. No. 1,352,039; Sept. 7; v. 278; p. 63.

Tracy, Clarence O., Denver, Colo. Automatically-operating motor-driven carrier. No. 1,351,930; Sept. 7; v. 278; p. 43.

Triner, James M., Chicago, Ill. Scale. No. 1,352,104; Sept. 7; v. 278; p. 76.

Tschache, Edward D., assignor to Washburn Crosby Company, Minneapolis, Minn. Conveying and tipping apparatus. No. 1,352,329; Sept. 7; v. 278; p. 118.

Tucker, Chas. L. (See Tucker, Mat A., assignor.)

Tucker, Mat A., assignor of one-third to C. L. Tucker, Moore, Okla. Dirigible headlight. No. 1,352,394; Sept. 7; v. 278; p. 130.

Turner, Louis N., *et al.* (See Procunier, Frank R., assignor.)

Twiford, William R., Manville, Wyo. Pump. No. 1,351,813; Sept. 7; v. 278; p. 19.

Twyman, Thomas W., Avella, Pa. Combined trolley-wire and guard hanger. No. 1,352,105; Sept. 7; v. 278; p. 76.

Tyler, Ralph S., Cleveland Heights village, assignor to The Chandler and Price Company, Cleveland, Ohio. Inking mechanism for printing-presses. No. 1,352,159; Sept. 7; v. 278; p. 86.

Tyler, Sidney J., Afton, Okla. Fixing-bath and developing-tray support and rocker. No. 1,352,330; Sept. 7; v. 278; p. 118.

U. S. Light & Heat Corporation. (See Bliss, William L., assignor.)

Uebele, Joseph E. (See McKnight, Boyd L., assignor.)

Uhlemann, Theodore F., assignor to Nicholas Power Company, New York, N. Y. Framing mechanism for moving-picture machines. No. 1,351,814; Sept. 7; v. 278; p. 20.

Ullmann, Emanuel S., New York, N. Y. Apparatus for mooring airships. No. 1,351,931; Sept. 7; v. 278; p. 44.

Ulrich, William P., Oslo, Minn. Mechanical movement. No. 1,351,978; Sept. 7; v. 278; p. 53.

Underwood Computing Machine Company. (See Thomas, E., and Stickney.)

Underwood, Oliver E. (See Barker, G. P., and Underwood.)

Underwood Typewriter Company. (See Burridge, Lee S., assignor.)

Unger, Warren, Kentland, Ind. Loading apparatus. No. 1,351,932; Sept. 7; v. 278; p. 44.

Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)

United Shoe Machinery Corporation. (See Baxter, William C., assignor.)

United Shoe Machinery Corporation. (See McCormack, Andrew J., assignor.)

United States Cast Iron Pipe and Foundry Company. (See Ladd, James B., assignor.)

United States Cast Iron Pipe & Foundry Company. (See Lemoine, Louis R., assignor.)

Unno, Umikichi, Tokyo, Japan. Electroplating non-conducting substances with copper. No. 1,352,331; Sept. 7; v. 278; p. 118.

Vacuum Muffler Corporation, The. (See Andresen, Halvor, assignor.)

Valentin, Marcel, Mexico, Mexico. Process and apparatus for dredging by suction. No. 1,351,979; Sept. 7; v. 278; p. 53.

Van Osdel, William J., Chicago, Ill. Rotary engine. No. 1,351,933; Sept. 7; v. 278; p. 44.

Vapor Car Heating Company, Inc. (See Schreiber, Edward A., assignor.)

Vescovi, Pietro P., Ottawa, Kans. Portable fire-escape. No. 1,352,230; Sept. 7; v. 278; p. 99.

Victor Typewriter Company. (See Hagerstrom, John A., assignor.)

Vissering, Harry, & Company. (See Anderson, Harry T., assignor.)

Vissering, Harry, & Company. (See Simonson, Sigvard, assignor.)

von Henke, Edmund J., New York, N. Y. Apparatus for and method of welding. No. 1,351,815; Sept. 7; v. 278; p. 20.

Von Schlegell, Frederick, Evanston, and W. B. Lewis, Chicago, Ill. Electric furnace. No. 1,352,040; Sept. 7; v. 278; p. 63.

Vredenburgh, Raymond T., Brookline, Mass. Aerial observer's windshield. No. 1,352,106; Sept. 7; v. 278; p. 76.

Wagenhorst, James H., Akron, Ohio. Pump or compressor. No. 1,352,107; Sept. 7; v. 278; p. 76.

Wais, Charles C., Cincinnati, Ohio, assignor of one-half to C. Schwerin, Covington, Ky. Protective pocket. No. 1,351,816; Sept. 7; v. 278; p. 20.

Waite, William T., Kansas City, Mo. Automatic drag for player-piano transmissions. No. 1,351,881; Sept. 7; v. 278; p. 34.

Walker, Charles E., Grand Rapids, Mich. Reel. No. 1,352,041; Sept. 7; v. 278; p. 64.

Walker, Fred W., Hulbert, Okla. Educational chart. No. 1,352,042; Sept. 7; v. 278; p. 64.

Walters, James M., Los Angeles, Calif. Display-stand. No. 1,351,817; Sept. 7; v. 278; p. 20.

Ward, Edward E., Chicago, Ill. Fuel-saving device. No. 1,352,043; Sept. 7; v. 278; p. 64.

Ward, Timothy F., Earleys, N. C. Barrel-head machine. No. 1,351,934; Sept. 7; v. 278; p. 44.

Washburn Crosby Company. (See Harding, Henry O. B., assignor.)

Washburn Crosby Company. (See Tschache, Edward D., assignor.)

Wayne Manufacturing Company. (See Sargent, William H., assignor.)

Webster & Perks Tool Company, The. (See Mitchell, Raymond C., assignor.)

Wehrenberg, William H., La Crosse, Wis. Padding. No. 1,352,231; Sept. 7; v. 278; p. 99.

Weickel, Henry, assignor to Pawling and Harnischfeger Company, Milwaukee, Wis. Hoisting and conveying apparatus. No. 1,351,882; Sept. 7; v. 278; p. 34.

Weightman, W. A., and C. H. Nitsch, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Producing sealed wrapped packages. No. 1,352,232; Sept. 7; v. 278; p. 100.

Weinberg, Isaac H., and C. F. Bisbing, New York, N. Y. Umbrella and parasol. No. 1,352,332; Sept. 7; v. 278; p. 118.

Weinerth, George S., Reading, Pa. Reinforcing mechanism for circular-knitting machines. No. 1,351,883; Sept. 7; v. 278; p. 35.

Weis, John P., assignor of one-half, by mesne assignments, to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Stop-motion. No. 1,352,333; Sept. 7; v. 278; p. 119.

Wertman, Milton A., Dayton, assignor to The Biggs-Watterson Co., Cleveland, Ohio. Automatic machine-tool. No. 1,351,884; Sept. 7; v. 278; p. 35.

West, Hubbard C., Mount Vernon, N. Y. Lubricant-retaining cap for timers. No. 1,351,818; Sept. 7; v. 278; p. 21.

Wester, Emerick, Easton, Pa. Milk-bottle cap. No. 1,352,334; Sept. 7; v. 278; p. 119.
Western Electric Company, Inc. (See Bell, John H., assignor.)
Western Electric Company. (See Cummings, George C., assignor.)
Western Electric Company. (See Moran, John F., assignor.)
Western Telegraph Company, The. (See Murray, Donald, assignor.)
Westinghouse Electric and Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, R. E., and Moore, assignors.)
Whitcomb, Charles O., Washington, Mich. Railway-tie. No. 1,351,819; Sept. 7; v. 278; p. 21.
White, Charles, Glen Cove, N. Y. Internal-combustion engine. No. 1,351,980; Sept. 7; v. 278; p. 53.
White, William E., Manor, Tex. Gate. No. 1,352,233; Sept. 7; v. 278; p. 100.
Whitten, Wilmot W., assignor of one-half to E. Guthrie, Washington, D. C. Wardrobe-trunk opener and carrier. No. 1,352,234; Sept. 7; v. 278; p. 100.
Wieland, George, St. Louis, Mo. Saw-guard. No. 1,351,820; Sept. 7; v. 278; p. 21.
Wiener, Milton M. (See Benson, M. P., and Wiener.)
Wilkinson, James. (See Dickinson, E. D., and Wilkinson.)
Wilkinson, John F., Winchendon, Mass. Flying-machine. No. 1,351,821; Sept. 7; v. 278; p. 21.
Willard, Theodore A., Cleveland, Ohio. Apparatus for forming storage-battery jars and the like. No. 1,352,160; Sept. 7; v. 278; p. 86.
Willard, Theodore A., Cleveland, Ohio. Forming hard-rubber storage-battery jars. No. 1,352,161; Sept. 7; v. 278; p. 86.
Williams, James A., Cincinnati, Ohio, assignor to Charles Mullis Manufacturing Company, Greensburg, Ind. Painting objects of art. No. 1,351,885; Sept. 7; v. 278; p. 35.
Williams, Roger, assignor to Nitrogen Products Company, Providence, R. I. Production of substantially pure carbon and the like. No. 1,352,162; Sept. 7; v. 278; p. 86.
Williamson, Arba G., Pittsburgh, Pa., and S. V. Huber, Los Angeles, Calif. Train-control system. No. 1,351,822; Sept. 7; v. 278; p. 22.
Willis, Paul M., Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y. Self-luminous writing or reading device. No. 1,351,985; Sept. 7; v. 278; p. 45.
Wilson, Andrew A., Norfolk, Va. Sash-fastener. No. 1,351,986; Sept. 7; v. 278; p. 45.
Wilson, John A., Elizabeth, assignor to The Duratex Company, Newark, N. J. Coated fabric and producing same. No. 1,352,163; Sept. 7; v. 278; p. 87.
Wilson, Leonard, Salt Lake City, Utah, assignor to General Electric Company. Totalizing power system. No. 1,352,235; Sept. 7; v. 278; p. 100.
Winchester Repeating Arms Co. (See Brown, Walter T. K., assignor.)
Windbichler, Loyd, Nokomis, Ill. Dinner-pail. No. 1,351,823; Sept. 7; v. 278; p. 22.
Wirth, Emil, Waukomis, Okla. Fastening-bracket for the mitered ends of timbers or the like. No. 1,352,335; Sept. 7; v. 278; p. 119.
Wolfe, William. (See Mitchell, J. E., Wolfe, and Parks.)
Worthington, Warren, Buffalo, N. Y. Making composite steel platea. No. 1,351,824; Sept. 7; v. 278; p. 22.
Wright, Walter S., Lompoc, Calif. Dental mandrel for holding stones and sandpaper disks. No. 1,352,395; Sept. 7; v. 278; p. 130.
Yardley John O., Stockton, Calif. Non-glare lens for headlights. No. 1,352,236; Sept. 7; v. 278; p. 101.
Yelm, Charles W., assignor to The Gates Rubber Company, Denver, Colo. Repaired tire. No. 1,352,164; Sept. 7; v. 278; p. 87.
Yingst, Harry M., Harrisburg, Pa. Advertising device. No. 1,352,336; Sept. 7; v. 278; p. 119.
Zaenglein, Paul C. (See Page, George E., assignor.)
Zimmerman, John W., Baltimore, Md. Player-piano. No. 1,352,337; Sept. 7; v. 278; p. 120.
Zipf, Carl F., Johnstown, Pa. Toy steam-shovel. No. 1,351,981; Sept. 7; v. 278; p. 53.
Zubal, John, Walsen, Colo. Safety-clevis. No. 1,351,825; Sept. 7; v. 278; p. 22.
Zwicke, Martin, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Garment-protector. No. 1,351,982; Sept. 7; v. 278; p. 53.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Alterson, Louis, Averne, N. Y. Buckle. No. 56,246; Sept. 7; v. 278; p. 135.
Corcoran-Victor Company, The. (See Ryder, Charles D., assignor.)
Faber, Eberhard, New York, N. Y. Rubber eraser-head for lead-pencils. No. 56,247; Sept. 7; v. 278; p. 136.
Ferguson, Clinton B., Newtonville, Mass. Combined candelabrum and electric terminal. No. 56,248; Sept. 7; v. 278; p. 136.
Findley, Robert, Manufacturing Co. (See Kostszewski, Stephen, assignor.)
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric floor-lamp. No. 56,249; Sept. 7; v. 278; p. 136.
Graf, Martin T., Buffalo, N. Y. Sharpener for knives. No. 56,250; Sept. 7; v. 278; p. 136.
Greene, Frank R., Chicago, Ill. Casing for a vending-machine. No. 56,251; Sept. 7; v. 278; p. 136.
Horn & Brannen Manufacturing Co. (See Frerichs, Frederick A., assignor.)
Huyler, Couter D., Greenwich, Conn., assignor to Huyler's Inc., New York, N. Y. Jar. No. 56,252; Sept. 7; v. 278; p. 136.
Huyler's. (See Huyler, Coulter D., assignor.)
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 56,253; Sept. 7; v. 278; p. 137.
Lee, William L., Helena, Mont. Toilet-paper holder. No. 56,254; Sept. 7; v. 278; p. 137.
Moore, David C., Cleveland, Ohio. Radiator-inclosure. No. 56,255; Sept. 7; v. 278; p. 137.
Ryder, Charles D., Covington, Ky., assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Rim for a vehicle-lamp or similar article. No. 56,256; Sept. 7; v. 278; p. 137.
Ryder, Charles D., Covington, Ky., assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Rim for a vehicle-lamp or similar article. No. 56,257; Sept. 7; v. 278; p. 138.
Ryder, Charles D., Covington, Ky., assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Rim for a vehicle-lamp or similar article. No. 56,258; Sept. 7; v. 278; p. 138.
Senger, Arthur, Milwaukee, Wis. Automobile-lens. No. 56,259; Sept. 7; v. 278; p. 138.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

American Abrasive Company, Westfield, Mass. Corundum in bulk. No. 134,471; Sept. 7; v. 278; p. 159.
American Candy Manufacturing Co., Selma, Ala. Candy. No. 134,472; Sept. 7; v. 278; p. 159.
American Carpenter and Builder Co., Chicago, Ill. Monthly magazine. No. 134,473; Sept. 7; v. 278; p. 159.
American Italian Trading Company McDonnell, Truda & Berlingieri, New York, N. Y. Boots and shoes of leather, leather and canvas, canvas with rubber soles, and rubbers. No. 134,562; Sept. 7; v. 278; p. 161.
Auburn Brush Company, Auburn, Me. Dustpan-brushes, brooms, floor-sweepers, and household brushes. No. 134,474; Sept. 7; v. 278; p. 159.
Balme, Jean B. C., New York, N. Y. Hair-coloring. No. 134,475; Sept. 7; v. 278; p. 159.
Bard, W. E., Sedalia, Mo. Medicine for the treatment of colds, coughs, and other throat and lung diseases. No. 134,476; Sept. 7; v. 278; p. 159.
Bartholomew, Roy L., Minneapolis, Minn. Tire-patch. No. 134,477; Sept. 7; v. 278; p. 159.
Banman, Hyman, & Co., New York, N. Y. Handkerchiefs. No. 134,561; Sept. 7; v. 278; p. 161.
Blahnik, V. L., & Sons, Chicago, Ill. Internal remedy for affections of the lungs and throat, colds, coughs, &c. No. 134,478; Sept. 7; v. 278; p. 159.
Bolt, Cadimus L., Ware Shoals, S. C. Medicinal compound for a liver-regulator and general tonic. No. 134,479; Sept. 7; v. 278; p. 159.
Carpenter-Morton Company, Boston, Mass. Prepared roofing. No. 134,480; Sept. 7; v. 278; p. 159.
Carter Annie L., New York, N. Y. Chemical compound for the treatment of the hair and scalp. No. 134,481; Sept. 7; v. 278; p. 159.
Chamberlain-Haber Chemical Co., The, Cleveland, Ohio. Radiator compound for internal-combustion engines. No. 134,482; Sept. 7; v. 278; p. 159.
Chanlin, W. H., & Co., Limited, London, England. Distilled alcoholic liquor. No. 134,483; Sept. 7; v. 278; p. 159.
Chanlin, W. H., & Co., Limited, London, England. Sherry. No. 134,484; Sept. 7; v. 278; p. 159.

Clark, Sawyer D., Boulder, Colo. Salve or ointment for catarrh, eczema, &c. No. 134,485; Sept. 7; v. 278; p. 159.
Colonial Preserve Company, Philadelphia, Pa. Canned fruits. No. 134,486; Sept. 7; v. 278; p. 159.
Consolidated Companies, Inc., Plaquemine, Morgan City, St. Martinville, New Roads, and White Castle, La. Canned corn, tomatoes, peas, canned oysters, shrimp, and syrup. No. 134,487; Sept. 7; v. 278; p. 159.
Crane, Clarence A., Cleveland, Ohio. Non-alcoholic maltless coca beverage. No. 134,488; Sept. 7; v. 278; p. 159.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 134,490; Sept. 7; v. 278; p. 159.
Crane, John, Maywood, Ill. Packing. No. 134,489; Sept. 7; v. 278; p. 159.
Dairy Products Company, The, Dayton, Ohio. Non-alcoholic non-cereal maltless beverage. No. 134,491; Sept. 7; v. 278; p. 159.
Deaderick, Sallie B., Ford City, Pa. Remedy for falling hair, dandruff, and scalp diseases. No. 134,492; Sept. 7; v. 278; p. 159.
Dentamina Trading Co., The, New York, N. Y. Toothache remedy. No. 134,499; Sept. 7; v. 278; p. 160.
Dierke, Charles, Portland, Oreg. Toothbrushes. No. 134,493; Sept. 7; v. 278; p. 159.
Drug Products Co., Inc., New York, N. Y. Medicinal powders, capsules, &c. No. 134,494; Sept. 7; v. 278; p. 159.
Eli Lilly and Company, The, Indianapolis, Ind. Soluble tablets for extemporaneous preparations of solutions for antiseptic uses. No. 134,495; Sept. 7; v. 278; p. 159.
Fabrique de Produits Chimiques Flora, Zurich, Switzerland. Rennet powder and photographic developers. No. 134,496; Sept. 7; v. 278; p. 159.
Faehner, Madeleine, New York, N. Y. Hair-tonic. No. 134,497; Sept. 7; v. 278; p. 159.
Fats and Oils Service Company, New York, N. Y. Bulletin relating to fats, oils, &c. No. 134,498; Sept. 7; v. 278; p. 160.
Gaillard, Auguste, Malaga, Spain. Olive-oil. Nos. 134,500–1; Sept. 7; v. 278; p. 160.
Galbani, Egidio, Melzo, Italy. Cheeses. No. 134,502; Sept. 7; v. 278; p. 160.
Garrett and Company, Incorporated, New York, N. Y. Dealcoholized wines. No. 134,503; Sept. 7; v. 278; p. 160.
Grape Ola Products Corporation, New York, N. Y. Flavoring material for making a non-alcoholic beverage and the beverage made therefrom. Nos. 134,504–6; Sept. 7; v. 278; p. 160.
Headley Good Roads Company, Philadelphia, Pa. Road-oil used as a binder. No. 134,507; Sept. 7; v. 278; p. 160.
Josin, William H., Providence, R. I. Braids, shoe and corset laces, and galloons. No. 134,508; Sept. 7; v. 278; p. 160.
Kali Manufacturing Co., Philadelphia, Pa. Antiseptic and disinfectant for sick-rooms, closets, and household purposes. No. 134,509; Sept. 7; v. 278; p. 160.
Lindh, Charles E., Inc., Philadelphia, Pa. Piece goods. No. 134,510; Sept. 7; v. 278; p. 160.
Lisenby Manufacturing Company, Fresno, Calif. Printing-presses and parts thereof. No. 134,511; Sept. 7; v. 278; p. 160.
Lotus Magazine Foundation, Inc., The, New York, N. Y. Monthly magazine. No. 134,512; Sept. 7; v. 278; p. 160.
McConaghy, Anna V., Washington, D. C. Insecticides. No. 134,513; Sept. 7; v. 278; p. 160.
McKesson & Robbins Inc., New York, N. Y. Perfumery. No. 134,514; Sept. 7; v. 278; p. 160.
Manhattan Medicine Co., The, Des Moines, Iowa. Laxative tonic. No. 134,515; Sept. 7; v. 278; p. 160.
Mims, J. H., Boston, Ga. Medicine for constipation, torpid liver, indigestion, &c. No. 134,550; Sept. 7; v. 278; p. 161.
Morris & Yeomans, Limited, Reddich, England. Hand-needles, hat, toilet, safety, and hair pins, button-hooks, &c. No. 134,516; Sept. 7; v. 278; p. 160.
Muro Wall Board Company, Inc., Buffalo, N. Y. Wall-board and building-paper. No. 134,517; Sept. 7; v. 278; p. 160.
Northam Warren Corporation, New York, N. Y. Cold-cream. No. 134,518; Sept. 7; v. 278; p. 160.
Norwood, Frederick A., Delaware, Ohio. Preparations for headache, colds, rheumatism, &c., bay-rum, rouge, &c. No. 134,519; Sept. 7; v. 278; p. 160.
Novocol Chemical Mfg. Co., Inc., Brooklyn, N. Y. Local anesthetics. No. 134,520; Sept. 7; v. 278; p. 160.
Pelgram & Meyer, New York, N. Y. Ribbons. No. 134,521; Sept. 7; v. 278; p. 160.
Pemetine Company Inc., The, New York, N. Y. Preparation for the treatment of the teeth. No. 134,522; Sept. 7; v. 278; p. 160.
Peoples System of Bakeries, assignor to Peoples System of Bakeries Inc., Chicago, Ill. Baking plant sold as a unit. No. 134,523; Sept. 7; v. 278; p. 160.
Philip Carey Manufacturing Company, The, Lockland, Ohio. Roofing, heat and cold insulating materials, &c. No. 134,525; Sept. 7; v. 278; p. 160.
Photoplay Publishing Company, Chicago, Ill. Magazine-section. No. 134,526; Sept. 7; v. 278; p. 160.
Powers Paper Company, Springfield, Mass. Non-carbonized typewriting and printing paper. No. 134,527; Sept. 7; v. 278; p. 160.
Ransom & Randolph Company, The, Toledo, Ohio. Local anesthetic, sodium phenique compound, &c. No. 134,528; Sept. 7; v. 278; p. 160.
Rhodes, Metallic Packing Co., Inc., Shreveport, La. Metallic rod-packing. No. 134,529; Sept. 7; v. 278; p. 160.
Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. No. 134,530; Sept. 7; v. 278; p. 160.
Rochester Germicide Company, Rochester, N. Y. Disinfectants, insecticides, and germicides. No. 134,531; Sept. 7; v. 278; p. 160.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J. Canvas belting. No. 134,532; Sept. 7; v. 278; p. 161.
Rub-Tex Organization Company, Kenton, Ohio. Fibrous rubber floor-board mats, running-board and step mats for automobiles. No. 134,533; Sept. 7; v. 278; p. 161.
San Fernando Canning Co., San Fernando, Calif. Canned peaches and apricots. No. 134,534; Sept. 7; v. 278; p. 161.
Sawyer, Jesse E., Quincy, Ill. Self-vulcanizing patches for inner tubes of automobile-tires, &c. No. 134,535; Sept. 7; v. 278; p. 161.
Scanlon, Joseph, Brooklyn, N. Y. Toy horse. No. 134,536; Sept. 7; v. 278; p. 161.
Schisa, Ettore M., Syracuse, N. Y., and Lebanon, Pa. Macaroni. No. 134,537; Sept. 7; v. 278; p. 161.
Schweppes, Limited, London, England. Non-alcoholic non-cereal maltless flavored beverages. No. 134,538; Sept. 7; v. 278; p. 161.
Shuman, Frank G., Co., Chicago, Ill. Printed gummed labels. No. 134,539; Sept. 7; v. 278; p. 161.
Smith, Kline & French Co., Philadelphia, Pa. Aspirin. No. 134,540; Sept. 7; v. 278; p. 161.
Sonn Brothers Company, New York, N. Y. Dyestuffs. No. 134,541; Sept. 7; v. 278; p. 161.
Spencer Carroll Company, Dallas, Tex. Inner tubes for pneumatic tires. No. 134,542; Sept. 7; v. 278; p. 161.
Sunderland, W. C., Norwood, Pa. Salve for burns, bruises, bunions, cuts, &c. No. 134,543; Sept. 7; v. 278; p. 161.
Thornton, Leslie M., Kansas City, Mo. Polish for the finish on pianos, &c. No. 134,544; Sept. 7; v. 278; p. 161.
Tifin Products, Inc., New York, N. Y. Candy. No. 134,545; Sept. 7; v. 278; p. 161.
Tilden Produce Co., St. Paul, Minn. Fresh eggs. No. 134,546; Sept. 7; v. 278; p. 161.
Tyler, G. H., & Co., Cincinnati, Ohio. Belts for supporting wearing-apparel. No. 134,547; Sept. 7; v. 278; p. 161.
U. S. Pharmaceutical Manufacturing Company, New York, N. Y. Cough medicine. No. 134,524; Sept. 7; v. 278; p. 160.
United Drug Company, Boston, Mass. Talcum and chafing powder, zinc-stearate talc; worm, colic, and cough remedy, &c. No. 134,548; Sept. 7; v. 278; p. 161.
United States Drug & Chemical Co., The, Cleveland, Ohio. Toilet preparations, hair-tonics, face and shaving lotions, dentifrices, &c. No. 134,549; Sept. 7; v. 278; p. 161.
Universal Remedies Company, Duluth, Minn. Liniment for rheumatism, stiff joints, cuts, bruises, toothache, chilblains, &c. No. 134,551; Sept. 7; v. 278; p. 161.
Universal Theatres Concession Co., Chicago, Ill. Candy. No. 134,552; Sept. 7; v. 278; p. 161.
Vancouver Drug Company, Limited, Vancouver, British Columbia, Canada. Preparations for the relief of headaches and neuralgia. No. 134,553; Sept. 7; v. 278; p. 161.
Waldes & Co., Prague, Bohemia. Placket and glove fasteners, knitting and crochet needles, buttons, thimbles, &c. Nos. 134,554–5; Sept. 7; v. 278; p. 161.
Wall Paper Manufacturers Ltd., The, London, England. Paper hangings. No. 134,556; Sept. 7; v. 278; p. 161.
Wasserman, Jesse H., New York, N. Y. Piston-rings. No. 134,557; Sept. 7; v. 278; p. 161.
Waters, Cleveland L., Seattle, Wash. Hair-restorer. No. 134,558; Sept. 7; v. 278; p. 161.
Walton, Thompson G., Chicago, Ill. Preparation for a medicinal tonic for treatment of stomach, kidneys, liver, and bowels. No. 134,559; Sept. 7; v. 278; p. 161.
Weinberg, L., Baking Co., Cincinnati, Ohio. Bread. No. 134,560; Sept. 7; v. 278; p. 161.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Beech-Nut Packing Company, Canajoharie, N. Y. "Caramels." (For Caramels.) No. 22,093; Sept. 7; v. 278; p. 162.

Board of Education of Louisville, Kentucky, Louisville, Ky. "Cream of Manila Practice Paper. Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) No. 22,094; Sept. 7; v. 278; p. 162.

Board of Education of Louisville, Kentucky, Louisville, Ky. "Grey Manila Practice Paper. Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) No. 22,095; Sept. 7; v. 278; p. 162.

Waterman, L. E. Company, New York, N. Y. "Waterman's Ideal Ink." (For Waterman's Ideal Ink.) Nos. 22,096–9; Sept. 7; v. 278; p. 162.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Caramels." (For Handy Candy Caramels.) No. 5,334; Sept. 7; v. 278; p. 162.

Haynes Automobile Co., The, Kokomo, Ind. "The New Series Haynes Suburban." (For Automobiles.) No. 5,335; Sept. 7; v. 278; p. 162.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Adler, David & Sons, Co., Milwaukee, Wis. Coats, waistcoats, trousers, and overcoats. No. 129,525; Sept. 7; v. 278; p. 146.

Allaire Woodward & Co., Peoria, Ill. Antiseptic healing-powders. No. 128,338; Sept. 7; v. 278; p. 143.

Alston, William H., Birmingham, Ala. Magazine, Quarterly. No. 132,070; Sept. 7; v. 278; p. 149.

Altman, B., & Co., New York, N. Y. Tooth-wash. No. 128,579; Sept. 7; v. 278; p. 144.

American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Woven underwear. No. 131,098; Sept. 7; v. 278; p. 148.

Ascher, Simon & Co., Inc., New York, N. Y. Knitted sweaters, leggings, caps, &c. No. 133,514; Sept. 7; v. 278; p. 151.

Aseptic Chemical Company, Waukegan, Ill. Foot remedy and corn cure. No. 129,485; Sept. 7; v. 278; p. 146.

Bailey, B. F. & Co., New York, N. Y. Cotton table-damask, pattern-cloths, and napkins, Bleached, &c. No. 135,745; Sept. 7; v. 278; p. 157.

Baker, Erwin H., San Jose, Calif. Medicine for the stomach and liver. No. 128,647; Sept. 7; v. 278; p. 144.

Bates, A. J. & Company, New York, N. Y. Leather shoes and shoes with cloth uppers. Nos. 133,005–6; Sept. 7; v. 278; p. 150.

Beston, R. S., & Co., New York, N. Y. Canned fruits. No. 134,346; Sept. 7; v. 278; p. 155.

Biery Oil Company, Franklin, Pa., and New York, N. Y. Lubricating oils and greases, gasoline and mineral waxes, &c. No. 130,798; Sept. 7; v. 278; p. 148.

Bloor, James B., Los Angeles, Calif. Weekly magazine. No. 135,264; Sept. 7; v. 278; p. 156.

Blue Buckle Cotton Mills, Inc., Rock Hill, S. C. Bedticking. Nos. 135,686–8; Sept. 7; v. 278; pp. 156–7.

Blue Buckle Cotton Mills, Inc., Rock Hill, S. C. Bedticking. No. 135,690; Sept. 7; v. 278; p. 157.

Blue Buckle Cotton Mills, Inc., Rock Hill, S. C. Bedticking. No. 135,692; Sept. 7; v. 278; p. 157.

Booth, Ronald E., Seattle, Wash. Toy velocipedes. No. 122,242; Sept. 7; v. 278; p. 140.

Booty, Stanley S., London, England. Boxes for toilet preparations. No. 129,121; Sept. 7; v. 278; p. 145.

Brémont, Joseph, New York, N. Y. Medicinal preparations for venereal diseases. No. 129,488; Sept. 7; v. 278; p. 146.

Broderick, Edward G., New York, N. Y. Cleansing-soda. No. 129,825; Sept. 7; v. 278; p. 146.

Carr Fastener Company, Cambridge, Mc. Snap-fasteners. No. 135,406; Sept. 7; v. 278; p. 156.

Chemical Paper Company, Washington, D. C. Transparent paper and gelatin papers. No. 130,157; Sept. 7; v. 278; p. 147.

Collene Laboratories. (See Govett, Ernest, assignor.)

Commercial Importing Company, Inc., Seattle, Wash. Baking-powder. No. 128,725; Sept. 7; v. 278; p. 144.

Creole Praline Co. Inc., The, New Orleans, La. Candy. No. 123,773; Sept. 7; v. 278; p. 140.

Consolidated Mills Company, High Point, N. C. Hosiery. No. 134,635; Sept. 7; v. 278; p. 155.

Crocker Pen Company, Boston, Mass. Automatic pencils and fountain-pens. No. 133,403; Sept. 7; v. 278; p. 151.

Crooks-Dittmar Co., The, Williamsport, Pa. Wood flooring. No. 127,239; Sept. 7; v. 278; p. 141.

Crooks-Dittmar Co., Williamsport, Pa. Wood flooring. No. 131,943; Sept. 7; v. 278; p. 149.

Crowe, Robert L., Memphis, Tenn. Chemical compound. No. 128,487; Sept. 7; v. 278; p. 144.

De-Fi Manufacturing Company, New York, N. Y. Carbon-paper and typewriter-ribbons. No. 129,005; Sept. 7; v. 278; p. 145.

Douglas Company, Cedar Rapids, Iowa. Corn-oil. No. 113,929; Sept. 7; v. 278; p. 139.

Dudman Drug & Chemical Co., Charleston, S. C. Cough-syrup. No. 129,172; Sept. 7; v. 278; p. 146.

D'Unger, Sebastian V., Fall River, Mass. Trading-stamps or coupons. No. 128,030; Sept. 7; v. 278; p. 143.

Duran & Davalos, New York, N. Y. Evaporated bananas. No. 126,564; Sept. 7; v. 278; p. 141.

Economic Manufacturing Co., Paterson, N. J. Imitation linoleum. No. 134,813; Sept. 7; v. 278; p. 155.

Edson Moore & Company, Detroit, Mich. Manufactured blankets. No. 126,354; Sept. 7; v. 278; p. 141.

Elliott, Clinton, New York, N. Y. Candies and molasses kisses. Nos. 133,653–4; Sept. 7; v. 278; p. 151.

Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 135,806; Sept. 7; v. 278; p. 157.

Evans Dollar Pen Company, The, Waterloo, Iowa. Fountain-pens. No. 133,917; Sept. 7; v. 278; p. 154.

Evans Mfg. Co., Cedar Rapids, Iowa. Work-clothing. No. 128,300; Sept. 7; v. 278; p. 143.

Feisel, Edwin J., San Francisco, Calif. Infants' and children's articles. No. 127,048; Sept. 7; v. 278; p. 141.

Fenner, Frank D., Cranston, R. I. Disinfectant, deodorizer, &c. No. 128,433; Sept. 7; v. 278; p. 144.

Feuillan, William A., Jr., New Orleans, La. Candy. No. 132,786; Sept. 7; v. 278; p. 150.

Fisher, James F., Honolulu, Hawaii. Publications, Monthly, weekly, and periodical. No. 134,815; Sept. 7; v. 278; p. 155.

French, Noyes E., Boston, Mass. Fruit punch sold as a soft drink. No. 133,463; Sept. 7; v. 278; p. 151.

Friedman, Louis, New York, N. Y. Waistbands. No. 133,409; Sept. 7; v. 278; p. 151.

Gem Hammock & Fly Net Company, The, Milwaukee, Wis. Polish for furniture, automobiles, &c. No. 120,530; Sept. 7; v. 278; p. 140.

Geminden, Frank P., Kansas City, Mo. Preparation for the prevention and treatment of influenza. No. 128,963; Sept. 7; v. 278; p. 145.

Gerbasi, Francis C., Brooklyn, N. Y. Ladies' belts of ornamental designs in celluloid. No. 135,599; Sept. 7; v. 278; p. 156.

Govett, Ernest, New York, assignor to Collene Laboratories, Inc., New York, N. Y. Antiseptic colloid solution for the treatment of influenza, &c. No. 129,841; Sept. 7; v. 278; p. 146.

Groton Electrical Devices, Inc., Groton, N. Y. Electrical lavatory drying machines. No. 134,889; Sept. 7; v. 278; p. 155.

Guiterman, Rosenfeld & Co., New York, N. Y. Electrically-operated automobile-horns. No. 135,555; Sept. 7; v. 278; p. 156.

Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, woolen, &c., piece goods. No. 131,872; Sept. 7; v. 278; p. 149.

Hagemeyer Trading Company, New York, N. Y. Compound for cleaning and bleaching wool. No. 128,681; Sept. 7; v. 278; p. 144.

Hall, Homer H., Twin Falls, Idaho. Antiseptic for infections. No. 128,387; Sept. 7; v. 278; p. 143.

Hall, James L., Buffalo, N. Y. Hair-tonic. No. 130,098; Sept. 7; v. 278; p. 147.

Hall, Walter T., & Co., Ottumwa, Iowa. Candy. No. 133,665; Sept. 7; v. 278; p. 152.

Harris Suspender Company, New York, N. Y. Garters. No. 129,783; Sept. 7; v. 278; p. 146.

Hodges, John R., San Antonio, Tex. Antibilious tablets. No. 128,780; Sept. 7; v. 278; p. 144.

Horwitz, S., & Sons, New York, N. Y. Clothing. No. 132,860; Sept. 7; v. 278; p. 150.

House of Willis, Inc., The, New York, N. Y. Pipes, cigarette-holders, tobacco-pouches. No. 127,246; Sept. 7; v. 278; p. 141.

Hulbert Oil & Grease Co., The, Philadelphia, Pa. Lubricating oils and greases. No. 116,774; Sept. 7; v. 278; p. 139.

Igstaedter, Gus, New York, N. Y. Cotton piece goods. No. 135,322; Sept. 7; v. 278; p. 156.

Indiana Indestructible Paint Co., Chicago, Ill. Paint. No. 128,966; Sept. 7; v. 278; p. 145.

Indiana Indestructible Paint Co., Chicago, Ill. Paints. No. 128,969; Sept. 7; v. 278; p. 145.

Irvin, Jewell & Vinson Company, The, Dayton, Ohio. Paste and ready-mixed paints, paint-oils, and varnishes for metal surfaces. No. 130,045; Sept. 7; v. 278; p. 147.

Irvin, Jewell & Vinson Company, The, Dayton, Ohio. Paste and ready-mixed paints, paint-oils, and varnishes for metal surfaces. No. 130,478; Sept. 7; v. 278; p. 147.

Jobbers Overall Co., Inc., Lynchburg, Va. Overalls and work clothes. No. 133,151; Sept. 7; v. 278; p. 150.

Jones, Samuel & Company, Newark, N. J. Paper coated on one side with mucilage. No. 127,289; Sept. 7; v. 278; p. 142.

Kell Company, Billings, Mont. Coffee, tea, canned corn and tomatoes. No. 131,486; Sept. 7; v. 278; p. 148.

Kline, Clarence A., San Francisco, Cal. Engagement and wedding rings. No. 131,638; Sept. 7; v. 278; p. 148.

Koffler, Hyman, New York, N. Y. Trousers. No. 134,022; Sept. 7; v. 278; p. 154.

Krasberg Engineering and Manufacturing Corporation, Chicago, Ill. Phonograph-motors (mechanical). No. 119,074; Sept. 7; v. 278; p. 140.

(REGISTRATION APPLIED FOR.)

Lewis, Harvey M., Atwood, Ill. Non-alcoholic maltless beverages. No. 127,433; Sept. 7; v. 278; p. 142.
Libby, McNeil & Libby, Chicago, Ill. Canned milk. No. 133,156; Sept. 7; v. 278; p. 151.
Lineham Conover Company, Worcester, Mass. Corsets, corset-waists, brassières. No. 113,453; Sept. 7; v. 278; p. 139.
Louis Lewin Company, Chicago, Ill. Overalls. No. 133,787; Sept. 7; v. 278; p. 152.
McCabe, Barney, San Francisco, Calif. Liquid hair restorer and tonic. No. 129,851; Sept. 7; v. 278; p. 147.
McGugin, Albert C., Denver, Colo. Carpets and rugs made of rags. No. 134,840; Sept. 7; v. 278; p. 155.
Madison-Kipp Corporation, Madison, Wis. Mechanical lubricators, oil and grease cups. No. 126,133; Sept. 7; v. 278; p. 141.
Mandel, Louis, Chicago, Ill. Leather shoe dye in all colors. No. 128,787; Sept. 7; v. 278; p. 145.
Marshall Field & Company, Chicago, Ill. Hosiery. No. 131,490; Sept. 7; v. 278; p. 148.
Massachusetts Cotton Mills, Lowell and Boston, Mass. Cotton blankets. No. 135,792; Sept. 7; v. 278; p. 157.
Mato Mfg. Co., New York, N. Y. Washing-powders. No. 117,469; Sept. 7; v. 278; p. 139.
Merrell, William S., Company, The, Cincinnati, Ohio. Capsules of benzol benzoate. No. 128,419; Sept. 7; v. 278; p. 143
Merrell, William S., Company, The, Cincinnati, Ohio. Tablets, phenolphthalein. No. 128,418; Sept. 7; v. 278; p. 143.
Metalmend Manufacturing Co. Inc., Brooklyn, N. Y. Silver-plating compound. No. 126,737; Sept. 7; v. 278; p. 141.
National Aniline & Chemical Company Incorporated, New York, N. Y. Dyestuffs. Nos. 133,836–46; Sept. 7; v. 278; pp. 152–53.
Norfolk Chemical Company, The, Philadelphia, Pa. Colloidal metallic silver medicine. No. 128,400; Sept. 7; v. 278; p. 143.
National Ring Traveler Co., Providence, R. I. Buttons for shoes and clothing. No. 135,611; Sept. 7; v. 278; p. 156.
Nephtalie Kahn-Lang, Rouen, France. Pictures. Nos. 127,826–7; Sept. 7; v. 278; p. 142.
O'Loane, Kiely & Co., Ltd., Vancouver, British Columbia, Canada. Canned fish. No. 133,489; Sept. 7; v. 278; p. 151.
Olsson, Martin, & Sons, London, England. Rafts of sawn or squared timber. No. 130,485; Sept. 7; v. 278; p. 147.
Oneida Community, Limited, Oneida, N. Y. Flat-ware and tableware, silver-plated. No. 127,603; Sept. 7; v. 278; p. 142.
Opitz, Herman, St. Cloud, Minn. Buttons. No. 135,614; Sept. 7; v. 278; p. 156.
Ormerod, John, & Sons Ltd., Castleton, England. Leather goods for use in looms. No. 127,257; Sept. 7; v. 278; p. 142.
Ormerod, John, & Sons Ltd., Castleton, England. Leather goods for use in looms and textile-machinery. No. 127,259; Sept. 7; v. 278; p. 142.
Oxweld Acetylene Company, Newark, N. J. Welding-rods. No. 134,266; Sept. 7; v. 278; p. 155.
Pal Medicine Co., Boston, Mass. Laxative for colds, headaches, la grippe, and constipation. No. 129,800; Sept. 7; v. 278; p. 146.
Paquin, George, Detroit, Mich. Scalp and mange remedy. No. 128,404; Sept. 7; v. 278; p. 141.
Paragon Binder Corporation, New York, N. Y., and Newark, N. J. Binders for loose sheets of paper, &c. No. 103,510; Sept. 7; v. 278; p. 139.
Persons Electric Co., Quincy, Ill. Electric motors. No. 135,762; Sept. 7; v. 278; p. 157.
Peschier, Charles, Lyon, France. Silk piece goods. Nos. 133,590–1; Sept. 7; v. 278; p. 151.
Petroleum Oil Company, Anderson, S. C. Motor and lubricating oils and greases and compounds. No. 133,934; Sept. 7; v. 278; p. 154.
Pierce, Percy, Philadelphia, Pa. Toy aeroplane. No. 124,355; Sept. 7; v. 278; p. 140.
Pierson Company, The, Rockford, Ill. Combined wringer and washboard. No. 118,932; Sept. 7; v. 278; p. 140.
Plaut Company, The, Cincinnati, Ohio. Men's, women's, and children's furnishing goods, viz., underwear, &c. No. 133,937; Sept. 7; v. 278; p. 154.
Probst, A. O., & Co., New York, N. Y. Maltose, glucose, &c., for food flavoring. No. 128,273; Sept. 7; v. 278; p. 143.
Ritz Soap Co. Inc., Jersey City, N. J. Soap. No. 131,539; Sept. 7; v. 278; p. 148.
Rocco Perretta & Company, Utica, N. Y. Cotton salad-oil. No. 134,601; Sept. 7; v. 278; p. 155.
Rockland and Rockport Lime Corporation, Rockland, Me. Chemical calcium hydrated lime. No. 129,609; Sept. 7; v. 278; p. 146.
Rodd Company, The, Pittsburgh, Pa. Blocks, ties, conduits, &c. No. 126,139; Sept. 7; v. 278; p. 141.
Rogers Peet Company, New York, N. Y. Men's and boys' collars. No. 134,034; Sept. 7; v. 278; p. 154.
Rosenberg Bros., New York, N. Y. Fur coats, scarfs, and muffs. No. 132,708; Sept. 7; v. 278; p. 149.
Rub-No-More Co., The, Fort Wayne, Ind. Egg-preserving preparations. No. 128,702; Sept. 7; v. 278; p. 144.
Shapleigh Hardware Company, St. Louis, Mo. Flash-lights and flash-light batteries. No. 135,734; Sept. 7; v. 278; p. 157.
Sinclair Pharmacal Co. Inc., New York, N. Y. Nasal ointment. No. 128,412; Sept. 7; v. 278; p. 143.
Slattery, E. T., Co., Boston, Mass. Men's, women's, and children's hosiery. No. 133,066; Sept. 7; v. 278; p. 130.
Slonim Brothers, Duluth, Minn. Clothing. No. 124,693; Sept. 7; v. 278; p. 141.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Bleaching compounds and powder. No. 118,621; Sept. 7; v. 278; p. 140.
Southern Wood Preserving Co., Atlanta, Ga. Wood fence-posts, cross-arms, conduits, etc. No. 130,070; Sept. 7; v. 278; p. 147.
Spitzer, Rudolph, New York, N. Y. Woolen, worsted, &c., piece goods. No. 132,063; Sept. 7; v. 278; p. 149.
Stixole Manufacturing Co., Cincinnati, Ohio. Adhesive cement. No. 132,815; Sept. 7; v. 278; p. 150.
St. Louis Brass Manufacturing Company, St. Louis, Mo. Electric-light fixtures. No. 119,374; Sept. 7; v. 278; p. 140.
Stone-Tarlow Co. Inc., Brockton, Mass. Boots and shoes made from leather, fabric, or rubber. No. 130,734; Sept. 7; v. 278; p. 147.
Straus, Simon, Portsmouth, Ohio. Bread. No. 132,568; Sept. 7; v. 278; p. 149.
Sumellor Company, The, Worcester, Mass. Ointment for eczema and other skin diseases. No. 108,460; Sept. 7; v. 278; p. 139.
Swift and Company, Chicago, Ill. Soap. No. 131,600; Sept. 7; v. 278; p. 148.
Talcum Puff Company, Brooklyn, N. Y. Talcum powder. No. 128,872; Sept. 7; v. 278; p. 145.
Thompson-Neaylon Manufacturing Co., Chicago, Ill. Automobile-rim clamps, wedges and bolts for same. No. 130,453; Sept. 7; v. 278; p. 147.
Tiffany & Company, New York, N. Y. Candles. Nos. 134,158–9; Sept. 7; v. 278; p. 155.
Tiffany & Company, New York, N. Y. Music-boxes. No. 135,387; Sept. 7; v. 278; p. 156.
Triangle Overall Company, Evansville, Ind. Men's and boys' work-garments—namely, overalls, coats, one-piece working-garments, &c. No. 133,946; Sept. 7; v. 278; p. 154.
Ultramarine Company, The, Jersey City, N. J., and New York, N. Y. Bluing. No. 118,630; Sept. 7; v. 278; p. 140.
Union Lumber Company, San Francisco, Calif. Lumber and forest products—namely, finished ties. No. 133,994; Sept. 7; v. 278; p. 154.
United Battery Service Company, Montgomery, Ala. Battery-containers. No. 132,901; Sept. 7; v. 278; p. 150.
United Publishers Corporation, New York, N. Y. Weekly periodical. No. 132,328; Sept. 7; v. 278; p. 149.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Automobile, piano, and furniture polish. No. 129,156; Sept. 7; v. 278; p. 145.
Vibroplex Company, Inc., The, New York, N. Y. Telegraphic sending-machines. No. 132,330; Sept. 7; v. 278; p. 149.
Warner, Paul S., Madison, Wis. Forms for use in business management, &c. No. 131,415; Sept. 7; v. 278; p. 148.
Wayne Manufacturing Company, St. Louis, Mo. Clothes-washing machines. No. 131,000; Sept. 7; v. 278; p. 148.
Will, Oscar H., & Co., Bismarck, N. D. Annual periodicals. No. 128,575; Sept. 7; v. 278; p. 144.
Wingate's Salvo Manufacturing Co. Inc., Asheville, N. C. Ointment used in the treatment of pulmonary diseases. No. 128,376; Sept. 7; v. 278; p. 143.
Winston, Sally F., Kansas City, Mo. Hair-grower, pressing-oil, &c. No. 129,361; Sept. 7; v. 278; p. 146.
Wohl, Benjamin, New York, N. Y. Clothing. No. 133,941; Sept. 7; v. 278; p. 154.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 7TH DAY OF SEPTEMBER, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accounting and record device. G. W. Moeller. No. 1,351,864; Sept. 7; v. 278; p. 30.
Adjustable clamp. M. L. Radtke. No. 1,351,966; Sept. 7; v. 278; p. 50.
Advertising device. M. Horsey. No. 1,352,368; Sept. 7; v. 278; p. 125.
Advertising device. H. M. Yingst. No. 1,352,336; Sept. 7; v. 278; p. 119.
Aeroplane. F. C. Lawrence. No. 1,351,918; Sept. 7; v. 278; p. 41.
Aeroplane construction. H. G. Hooper. No. 1,351,852; Sept. 7; v. 278; p. 28.
Aeroplane hoisting connection. H. Kleckler. No. 1,351,764; Sept. 7; v. 278; p. 10.
Aeroplane landing device. E. L. Martin. No. 1,352,077; Sept. 7; v. 278; p. 71.
Aeronautical motor. C. B. Kirkham. No. 1,351,763; Sept. 7; v. 278; p. 9.
Agricultural implement. S. L. Allen. No. 1,351,984; Sept. 7; v. 278; p. 54.
Airplane-wing-structure truss. G. H. Curtiss. No. 1,351,743; Sept. 7; v. 278; p. 6.
Airships, Apparatus for mooring. E. S. Ullmann. No. 1,351,931; Sept. 7; v. 278; p. 44.
Alloy. J. G. Homan. No. 1,352,367; Sept. 7; v. 278; p. 125.
Alloy. Z. Jeffries and W. A. Gibson. No. 1,352,271; Sept. 7; v. 278; p. 107.
Alloy. Z. Jeffries and W. A. Gibson. No. 1,352,272; Sept. 7; v. 278; p. 107.
Alloy and making same, Metallic. T. D. Stay. No. 1,352,322; Sept. 7; v. 278; p. 117.
Alloys having high mechanical, chemical, and electrical resistance. A. Tedesco. No. 1,351,801; Sept. 7; v. 278; p. 19.
Ammonia, Production of. J. C. Clancy. No. 1,352,180; Sept. 7; v. 278; p. 89.
Ammonia, Production of. J. C. Clancy. No. 1,352,181; Sept. 7; v. 278; p. 89.
Ammonia, Production of. J. C. Clancy. No. 1,352,174; Sept. 7; v. 278; p. 89.
Ammonia, Production of. J. C. Clancy. No. 1,352,182; Sept. 7; v. 278; p. 89.
Ammonia synthesis. J. C. Clancy. No. 1,352,179; Sept. 7; v. 278; p. 89.
Ammonia synthesis and catalyst therefor. J. C. Clancy. No. 1,352,178; Sept. 7; v. 278; p. 89.
Ammonia synthesis catalyst and making same. J. C. Clancy. No. 1,352,177; Sept. 7; v. 278; p. 89.
Anemometer. S. G. Starling and A. J. Hughes. No. 1,352,391; Sept. 7; v. 278; p. 129.
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Wheel: *See*—
Steel wheel. Vehicle-wheel.
Traction-wheel.
Winding machines, Chuck for ribbon-. E. A. Oppenheimer. No. 1,352,376; Sept. 7; v. 278; p. 127.
Window and wall cleaner. H. Engel and E. Feldman. No. 1,352,122; Sept. 7; v. 278; p. 79.
Window-locking device. J. Chomos. No. 1,352,114; Sept. 7; v. 278; p. 77.
Window-screen. C. J. Barker. No. 1,351,733: Sept. 7; v. 278; p. 4.
Window-screen, Extension. J. H. Kessler. No. 1,352,372; Sept. 7; v. 278; p. 126.
Windmills, Electric generator attachment for. H. H. Taylor. No. 1,351,975; Sept. 7; v. 278; p. 52.
Windshield. H. G. Smith. No. 1,352,094; Sept. 7; v. 278; p. 74.
Windshield, Aerial observer's. R. T. Vredenburgh. No. 1,352,106; Sept. 7; v. 278, p. 76.
Wireless receiving apparatus. E. J. Berg. No. 1,352,242; Sept. 7; v. 278; p. 102.
Wooden lappet. W. H. Bowker. No. 1,351,829; Sept. 7; v. 278; p. 23.
Woven pocketed carrier. V. H. Jennings. No. 1,352,133; Sept. 7; v. 278; p. 81.
Wrapping-machine. F. A. Sutherland. No. 1,351,809; Sept. 7; v. 278; p. 19.
Wrench. O. R. Jones. No. 1,352,136; Sept. 7; v. 278, p. 82.
Wrench. V. A. Lilliquist. No. 1,352,009; Sept. 7; v. 278; p. 59.
Wringer: *See*—
Mop-wringer.
Writing implement. C. J. App. No. 1,352,340; Sept. 7; v. 278; p. 120.
Writing-machine. H. Elmblad. No. 1,352,405; Sept. 7; v. 278; p. 132.
Writing or reading device, Self-luminous. P. M. Willis. No. 1,351,935; Sept. 7; v. 278; p. 45.
X-ray cone. H. P. MacLagan. No. 1,352,198; Sept. 7; v. 278; p. 93.
Zinc-bearing ores, Treating. F. K. Cameron, J. A. Cullen, and R. W. Hyde. No. 1,352,399; Sept. 7; v. 278; p. 131.

ALPHABETICAL LIST OF DESIGNS.

Buckle. L. Alterson. No. 56,246; Sept. 7; v. 278; p. 135.
Candelabrum and electric terminal, Combined. C. B. Ferguson. No. 56,248; Sept. 7; v. 278; p. 136.
Jar. C. D. Huyler. No. 56,252; Sept. 7; v. 278; p. 136.
Lamp or similar article. Rim for a vehicle-. C. D. Ryder. Nos. 56,256–8; Sept. 7; v. 278; pp. 137–8.
Lamp. Electric floor-. F. A. Frerichs. No. 56,249; Sept. 7; v. 278; p. 136.
Lens, Automobile-. A. Senger. No. 56,259; Sept. 7; v. 278; p. 138.
Lighting-fixture arm. S. Kostszewski. No. 56,253; Sept. 7; v. 278; p. 137.
Paper holder, Toilet-. W. L. Lee. No. 56,254; Sept. 7; v. 278; p. 137.
Pencils, Rubber-eraser head for lead-. E. Faber. No. 56,247; Sept. 7; v. 278; p. 136.
Radiator-inclosure. D. C. Moore. No. 56,255; Sept. 7; v. 278; p. 137.
Sharpener, Knife-. M. T. Graf. No. 56,250; Sept. 7; v. 278; p. 136.
Vending-machine casing. F. R. Greene. No. 56,251; Sept. 7; v. 278; p. 136.

ALPHABETICAL LIST OF TRADE-MARKS.

Anesthetics, Local. Novocol Chemical Mfg. Co. No. 134,520; Sept. 7; v. 278; p. 160.
Antiseptic and disinfectant for sick-rooms, &c. Kali Manufacturing Co. No. 134,509; Sept. 7; v. 278; p. 160.
Antiseptics. Eli Lilly and Company. No. 134,495; Sept. 7; v. 278; p. 159.
Aspirin. Smith, Kline & French Co. No. 134,540; Sept. 7; v. 278; p. 161.
Baking plant. Peoples System of Bakeries. No. 134,523; Sept. 7; v. 278; p. 160.
Belting, Canvas. Rosendale-Reddaway Belting & Hose Co., The. No. 134,532; Sept. 7; v. 278; p. 161.
Belts for supporting wearing-apparel. G. H. Tyler & Co. No. 134,547; Sept. 7; v. 278; p. 161.
Beverage, Non-alcoholic maltless cola. C. A. Crane. No. 134,488; Sept. 7; v. 278; p. 159.
Beverage, Non-alcoholic non-cereal maltless. The Dairy Products Company. No. 134,491; Sept. 7; v. 278; p. 159.
Beverage, Non-alcoholic, non-cereal, maltless, flavored. Schweppes, Limited. No. 134,538; Sept. 7; v. 278; p. 169.
Boots and shoes. American Italian Trading Company McDonnell, Truda & Berlingieri. No. 134,562; Sept. 7; v. 278; p. 161.
Braids, shoe and corset laces, and galloons. W. H. Joslin. No. 134,508; Sept. 7; v. 278; p. 160.
Bread. L. Weinberg Baking Co. No. 134,560; Sept. 7; v. 278; p. 161.
Brushes, brooms, floor-sweepers, Dustpan and household. Auburn Brush Company. No. 134,474; Sept. 7; v. 278; p. 159.
Bulletin published at irregular intervals. Fats and Oils Service Company. No. 134,498; Sept. 7; v. 278; p. 160.
Candy. American Candy Manufacturing Co. No. 134,472; Sept. 7; v. 278; p. 159.
Candy. C. A. Crane. No. 135,490; Sept. 7; v. 278; p. 159.
Candy. Tiffin Products, Inc. No. 134,545; Sept. 7; v. 278; p. 161.
Candy. Universal Theatres Concessions Co. No. 134,552; Sept. 7; v. 278; p. 161.
Canned corn, tomatoes, peas, &c. Consolidated Companies. No. 134,487; Sept. 7; v. 278; p. 159.
Canned fruits. Colonial Preserve Company. No. 134,486; Sept. 7; v. 278; p. 159.
Canned fruits and vegetables. Richmond-Chase Company. No. 134,530; Sept. 7; v. 278; p. 160.
Canned peaches and apricots. San Fernando Canning Co. No. 134,534; Sept. 7; v. 278; p. 161.
Cheeses. E. Galbani. No. 134,502; Sept. 7; v. 278; p. 160.
Corundum in bulk. American Abrasive Company. No. 134,471; Sept. 7; v. 278; p. 159.
Cream, Cold-. Northam Warren Corporation. No. 134,518; Sept. 7; v. 278; p. 160.
Disinfectants, insecticides, and germicides. Rochester Germicide Company. No. 134,581; Sept. 7; v. 278; p. 160.
Dyestuffs. Sonn Brothers Company. No. 134,541; Sept. 7; v. 278; p. 161.
Eggs, Fresh. Tilden Produce Co. No. 134,546; Sept. 7; v. 278; p. 161.
Flavoring material for making a non-alcoholic fruit beverage and the beverage made therefrom. Grape Ola Products Corporation. Nos. 134,504–5; Sept. 7; v. 278; p. 160.
Flavoring material for making a non-alcoholic beverage and the beverage made therefrom. Grape Ola Products Corporation. No. 134,506; Sept. 7; v. 278; p. 160.

Hair and scalp, Compound for the treatment of. A. L. Carter. No. 134,481; Sept. 7; v. 278; p. 159.
Hair-coloring. J. B. C. Balme. No. 134,475; Sept. 7; v. 278; p. 159.
Hair-restorer. C. L. Waters. No. 134,558; Sept. 7; v. 278; p. 161.
Hair-tonic. M. Faehner. No. 134,497; Sept. 7; v. 278; p. 159.
Handkerchiefs. Hyman Bauman & Co. No. 134,561; Sept. 7; v. 278; p. 161.
Insecticides. A. V. McConaghy. No. 134,513; Sept. 7; v. 278; p. 160.
Labels, Printed, gummed. The Frank G. Shuman Co. No. 134,539; Sept. 7; v. 278; p. 161.
Liniment for rheumatism, headaches, cuts, bruises, burns, &c. Universal Remedies Company. No. 134,551; Sept. 7; v. 278; p. 161.
Liquor, Distilled alcoholic. W. H. Chaplin Co. No. 134,483; Sept. 7; v. 278; p. 159.
Local anesthetic, sodium phenique compound, and dental medicines for treating pyorrhea. The Ransom & Randolph Company. No. 134,528; Sept. 7; v. 278; p. 160.
Macaroni. E. M. Schisa. No. 134,537; Sept. 7; v. 278; p. 161.
Magazine, Monthly. American Carpenter and Builder Co. No. 134,473; Sept. 7; v. 278; p. 159.
Magazine, Monthly. Lotus Magazine Foundation. No. 135,512; Sept. 7; v. 278; p. 160.
Magazine-section. Photoplay Publishing Company. No. 134,526; Sept. 7; v. 278; p. 160.
Mats for automobiles, Fibrous rubber floor-board. Rub-Tex Organization Company. No. 134,533; Sept. 7; v. 278; p. 161.
Medicinal compound for use as a liver-regulator and general tonic. C. L. Bolt. No. 134,479; Sept. 7; v. 278; p. 159.
Medicinal powders, capsules, &c. Drug Products Co. No. 134,494; Sept. 7; v. 278; p. 159.
Medicine, Cough. U. S. Pharmaceutical Manufacturing Company. No. 134,524; Sept. 7; v. 278; p. 160.
Medicine for colds, coughs, and other throat and lung diseases. W. E. Bard. No. 134,476; Sept. 7; v. 278; p. 159.
Medicine for constipation, pellagra, dropsy, &c. J. H. Mims. No. 134,550; Sept. 7; v. 278; p. 161.
Needles, pins, button-hooks, &c., Hand-. Morris & Yeomans. No. 134,516; Sept. 7; v. 278; p. 160.
Oil, Olive-. A. Gaillard. Nos. 134,500–1; Sept. 7; v. 278; p. 160.
Oil, Road-. Headley Good Roads Company. No. 134,507; Sept. 7; v. 278; p. 160.
Packing. J. Crane. No. 134,489; Sept. 7; v. 278; p. 159.
Packing, Metallic rod-. Rhodes Metallic Packing Co. No. 134,529; Sept. 7; v. 278; p. 160.
Paper hangings. The Wall Paper Manufacturers. No. 134,556; Sept. 7; v. 278; p. 161.
Perfumery. McKesson & Robbins. No. 134,514; Sept. 7; v. 278; p. 160.
Piano, &c., polish. L. M. Thornton. No. 134,544; Sept. 7; v. 278; p. 167.
Piece goods. Charles E. Lindh, Inc. No. 134,510; Sept. 7; v. 278; p. 160.
Piston-rings. J. H. Wasserman. No. 134,557; Sept. 7; v. 278; p. 161.
Placket-fasteners, glove-fasteners, hand sewing-needles, &c. Waldes & Co. Nos. 134,554–5; Sept. 7; v. 278; p. 161.
Powders, milk of magnesia, cough-syrup, &c., Talcum and chafing. United Drug Company. No. 134,548; Sept. 7; v. 278; p. 161.
Preparation for a medicinal tonic for the stomach, kidneys, liver, and bowels. T. G. Walton. No. 134,559; Sept. 7; v. 278; p. 161.
Preparations for headache, colds, grippe, &c. F. A. Norwood. No. 134,519; Sept. 7; v. 278; p. 160.
Preparation for relief of headaches and neuralgia. Vancouver Drug Company. No. 134,553; Sept. 7; v. 278; p. 161.
Preparation for the treatment of the teeth. The Pemetine Company. No. 134,522; Sept. 7; v. 278; p. 160.
Printing-presses and parts thereof. Lisenby Manufacturing Company. No. 134,511; Sept. 7; v. 278; p. 160.
Radiator compound for internal-combustion engines. The Chamberlain-Haber Chemical Co. No. 134,482; Sept. 7; v. 278; p. 159.
Remedy for falling hair, dandruff, and scalp diseases. S. B. Deaderick. No. 134,492; Sept. 7; v. 278; p. 159.
Remedy for various affections of the lungs and relief of consumptive and asthmatic patients, Internal. V. L. Blahnik & Sons. No. 134,478; Sept. 7; v. 278; p. 159.
Remedy, Toothache. The Dentamina Trading Co. No. 134,499; Sept. 7; v. 278; p. 160.
Rennet powder and photographic developers. Fabrique de Produits Chimiques Flora. No. 134,496; Sept. 7; v. 278; p. 159.
Ribbons. Pelgram & Meyer. No. 134,521; Sept. 7; v. 278; p. 160.
Roofing, Heat and cold insulating materials, &c. The Philip Carey Manufacturing Company. No. 134,525; Sept. 7; v. 278; p. 160.
Roofing, Prepared. Carpenter-Morton Company. No. 134,480; Sept. 7; v. 278; p. 159.
Salve. W. C. Sunderland. No. 134,543; Sept. 7; v. 278; p. 161.
Salve or ointment, for catarrh, hay-fever, burns, &c. S. D. Clark. No. 134,485; Sept. 7; v. 278; p. 159.
Sherry. W. H. Chaplin & Company. No. 134,484; Sept. 7; v. 278; p. 159.
Tire-patch. R. L. Bartholomew. No. 134,477; Sept. 7; v. 278; p. 159.
Tires, Inner tubes for pneumatic. Spencer Carroll Company. No. 134,542; Sept. 7; v. 278; p. 161.
Tires, &c., Patches for inner tubes of automobile-. J. E. Sawyer. No. 134,535; Sept. 7; v. 278; p. 161.
Toilet preparations. The United States Drug & Chemical Co. No. 134,549; Sept. 7; v. 278; p. 161.
Tonic, Laxative. The Manhattan Medicine Co. No. 134,515; Sept. 7; v. 278; p. 160.
Toothbrushes. C. Dierke. No. 134,493; Sept. 7; v. 278; p. 159.
Toy horse. J. Scanlon. No. 134,536; Sept. 7; v. 278; p. 161.
Typewriting and printing, Non-carbonized paper. Powers Paper Company. No. 134,527; Sept. 7; v. 278; p. 160.
Wall-board and building-paper. Muro Wall Board Company. No. 134,517; Sept. 7; v. 278; p. 160.
Wines, Dealcoholized. Garrett and Company. No. 134,503; Sept. 7; v. 278; p. 160.

ALPHABETICAL LIST OF LABELS.

"Caramels." (For Caramels.) Beech-Nut Packing Company. No. 22,093; Sept. 7; v. 278; p. 162.
"Cream Manila Practice Paper, Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) Board of Education of Louisville, Kentucky. No. 22,094; Sept. 7; v. 278; p. 162.
"Grey Manilla Practice Paper, Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) Board of Education of Louisville, Kentucky. No. 22,095; Sept. 7; v. 278; p. 162.
"Waterman's Ideal Ink." (For Waterman's Ideal Ink.) L. E. Waterman Company. Nos. 22,096–9; Sept. 7; v. 278; p. 162.

ALPHABETICAL LIST OF PRINTS.

"Handy Candy Caramels." (For Handy Candy Caramels.) Beech-Nut Packing Company. No. 5,334; Sept. 7; v. 278; p. 162.
"The New Series Haynes Suburban." (For Automobiles.) The Haynes Automobile Co. No. 5,335; Sept. 7; v. 278; p. 162.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Antiseptic for infections. H. H. Hall. No. 128,387; Sept. 7; v. 278; p. 143.
Automobile-horns, Electrically-operated. Guiterman, Rosenfeld & Company. No. 135,555; Sept. 7; v. 278; p. 156.
Automobile, piano, and furniture polish. Van Camp Hardware & Iron Company. No. 129,156; Sept. 7; v. 278; p. 145.
Automobile-rim clamps, wedges, and bolts for same. Thompson-Neaylon Manufacturing Co. No. 130,453; Sept. 7; v. 278; p. 147.
Baking-powder. Commercial Importing Company. No. 128,725; Sept. 7; v. 278; p. 144.
Bananas, Evaporated. Duran & Davalos. No. 126,564; Sept. 7; v. 278; p. 141.
Battery-containers. United Battery Service Company. No. 132,901; Sept. 7; v. 278; p. 150.
Bed-ticking. Blue Buckle Cotton Mills, Inc. Nos. 135,686–8; Sept. 7; v. 278; pp. 156–7.
Bed-ticking. Blue Buckle Cotton Mills, Inc. No. 135,690; Sept. 7; v. 278; p. 157.
Bed-ticking. Blue Buckle Cotton Mills, Inc. No. 135,692; Sept. 7; v. 278; p. 157.
Beverages, Non-alcoholic. H. M. Lewis. No. 127,433; Sept. 7; v. 278; p. 142.
Buttons. H. Opitz. No. 135,614; Sept. 7; v. 278; p. 156.
Buttons for shoes and clothing. National Ring Traveler Co. No. 135,611; Sept. 7; v. 278; p. 156.
Blankets, Manufactured. Edson Moore & Company. No. 126,354; Sept. 7; v. 278; p. 141.
Bleaching compounds and powder. Société Anonyme des Produits du Lion Noir. No. 118,621; Sept. 7; v. 278; p. 140.
Blocks, ties, conduits, &c. The Rodd Company. No. 126,139; Sept. 7; v. 278; p. 141.
Bluing. The Ultramarine Company. No. 118,630; Sept. 7; v. 278; p. 140.
Boots and shoes. Stone-Tarlow Co. No. 130,734; Sept. 7; v. 278; p. 147.
Boxes for toilet preparations. S. S. Booty. No. 129,121; Sept. 7; v. 278; p. 145.
Bread. S. Straus. No. 132,568; Sept. 7; v. 278; p. 149.
Candies and molasses kisses. C. Elliott. Nos. 133,653–4; Sept. 7; v. 278; p. 151.
Candles. Tiffany & Co. Nos. 134,158–9; Sept. 7; v. 278; p. 155.
Candy. The Creole Praline Co. No. 123,773; Sept. 7; v. 278; p. 140.
Candy. W. A. Feuillan, Jr. No. 132,786; Sept. 7; v. 278; p. 150.
Candy. W. T. Hall & Co. No. 133,665; Sept. 7; v. 278; p. 152.
Canned fish. O'Loane, Kiely & Co. No. 133,489; Sept. 7; v. 278; p. 151.
Canned fruits. R. S. Beston & Co. No. 134,346; Sept. 7; v. 278; p. 155.
Canned milk. Libby, McNeill & Libby. No. 133,156; Sept. 7; v. 278; p. 151.
Capsules of benzol benzoate. The William S. Merrell Company. No. 128,419; Sept. 7; v. 278; p. 143.
Carpets and rugs. Rag. A. C. McGugin. No. 134,840; Sept. 7; v. 278; p. 155.
Cement, Adhesive. Stixole Manufacturing Co. No. 132,815; Sept. 7; v. 278; p. 150.
Chemical compound. R. L. Crowe. No. 128,487; Sept. 7; v. 278; p. 144.
Clothing. S. Horwitz & Sons. No. 132,860; Sept. 7; v. 278; p. 150.
Clothing. Sionim Brothers. No. 124,693; Sept. 7; v. 278; p. 141.
Clothing. B. Wohl. No. 133,941; Sept. 7; v. 278; p. 154.
Clothing, Infants' and children's. E. J. Feisel. No. 127,048; Sept. 7; v. 278; p. 141.
Clothing, Work-. Evans Mfg. Co. No. 128,300; Sept. 7; v. 278. p. 143.
Coats, waistcoats, trousers, overcoats. David Adler & Sons Co. No. 129,525; Sept. 7; v. 278; p. 146.
Coffee, tea, canned corn, and tomatoes. Keil Company. No. 131,486; Sept. 7; v. 278; p. 148.
Collars, Men's and boys'. Rogers Peet Company. No. 134,034; Sept. 7; v. 278; p. 154.
Colloid solution for influenza, hay-fever, &c., Antiseptic. E. Govett. No. 129,841; Sept. 7; v. 278; p. 146.
Colloidal metallic silver medicine. Norfolk Chemical Company. No. 128,400; Sept. 7; v. 278; p. 143.
Corsets, corset-waists, brassières. Lineham-Conover Company. No. 113,453; Sept. 7; v. 278; p. 139.
Cotton Blankets. Massachusetts Cotton Mills. No. 135,792; Sept. 7. v. 278; p. 157.
Cotton piece goods. G. Igstaedter. No. 135,322; Sept. 7; v. 278; p. 156.
Cotton table-damask, pattern-cloths, and napkins, Bleached, &c. B. F. Bailey & Co. No. 135,745; Sept. 7; v. 278; p. 157.
Disinfectant, deodorizer, &c. F. D. Fenner. No. 128,433; Sept. 7; v. 278; p. 144.
Drying-machines, Electrical lavatory. Groton Electrical Devices, Inc. No. 134,889; Sept. 7; v. 278; p. 155.
Dye, Leather-shoe. L. Mandel. No. 128,787; Sept. 7; v. 278; p. 145.
Dyestuffs. National Aniline & Chemical Company. Nos. 133,836–46; Sept. 7; v. 278. pp. 152–3.
Egg-preserving preparations. The Rub-No-More Co. No. 128,702; Sept. 7; v. 278; p. 144.
Electric-light fixtures. St. Louis Brass Manufacturing Co. No. 119,374; Sept. 7; v. 278; p. 140.
Electric motors. Persons Electric Co. No. 135,762; Sept. 7; v. 278; p. 157.
Engagement and welding rings. C. A. Kline. No. 131,638; Sept. 7; v. 278; p. 148.
Fenceposts, cross-arms, &c., Wood. Southern Wood Preserving Co. No. 130,070; Sept. 7; v. 278; p. 147.
Flash-lights and batteries. Shapleigh Hardware Company. No. 135,734; Sept. 7; v. 278. p. 157.
Flat-ware and tableware, Silver-plated. Oneida Community. No. 127,603; Sept. 7; v. 278; p. 142.
Flooring, Wood. The Crooks-Dittmar Co. No. 127,239; Sept. 7; v. 278; p. 141.
Flooring, Wood. The Crooks-Dittmar Co. No. 131,943; Sept. 7; v. 278; p. 149.
Forms for use in business management, &c., Printed blank. P. S. Warner. No. 131,415; Sept. 7; v. 278; p. 148.
Fur coats, scarfs, and muffs. Rosenberg Bros. No. 132,708; Sept. 7; v. 278; p. 149.
Furnishing goods, Men's, women's, and children's. The Plaut Company. No. 133,937; Sept. 7; v. 278; p. 154.
Furniture, automobile, &c., polish. The Gem Hammock & Fly Net Company. No. 120,530; Sept. 7; v. 278; p. 140.
Garments, Men's and boys' work-. Triangle Overall Company. No. 133,946; Sept. 7; v. 278; p. 154.
Garters. Harris Suspender Company. No. 129,783; Sept. 7; v. 278; p. 146.
Hair-grower, pressing-oil, &c. S. F. Winston. No. 129,361; Sept. 7; v. 278; p. 146.
Hair restorer and tonic. B. McCabe. No. 129,851; Sept. 7; v. 278; p. 147.
Hair-tonic. J. L. Hall. No. 130,098; Sept. 7; v. 278. p. 147.
Healing-powders, Antiseptic. Allaire, Woodward & Co. No. 128,338; Sept. 7; v. 278; p. 143.
Hosiery. Consolidated Mills Company. No. 134,635; Sept. 7; v. 278; p. 155.
Hosiery. Marshall Field & Company. No. 131,490; Sept. 7; v. 278; p. 148.
Hosiery. E. T. Slattery Co. No. 133,060; Sept. 7; v. 278; p. 150.
Knitted sweaters, leggings, caps, &c. Simon Ascher & Co. No. 133,514; Sept. 7; v. 278; p. 151.
Ladies' belts of ornamental design. F. C. Gerbasi. No. 135,559; Sept. 7; v. 278. p. 156.
Laxative for colds, headache, &c. Pal Medicine Co. No. 129,800; Sept. 7; v. 278; p. 146.
Leather goods for use in looms and textile machinery. John Ormerod & Sons. No. 127,257; Sept. 7; v. 278; p. 142.
Leather goods, for use in looms and textile machinery. John Ormerod & Sons. No. 127,259; Sept. 7; v. 278; p. 142.
Lime, Chemical calcium hydrated. Rockland and Rockport Lime Corporation. No. 129,609; Sept. 7; v. 278; p. 146.
Linoleum, Imitation. Economic Manufacturing Co. No. 134,813; Sept. 7; v. 278; p. 155.
Lubricators, Oil, and grease cups. Madison1Kipp Corporation. No. 126,133; Sept. 7; v. 278; p. 141.
Lumber and forest products. Union Lumber Company. No. 133,994; Sept. 7; v. 278; p. 154.
Magazine, Quarterly. W. H. Alston. No. 132,070; Sept. 7; v. 278; p. 149.
Magazine, Weekly. J. B. Bloor. No. 135,264; Sept. 7; v. 278; p. 156.

(REGISTRATION APPLIED FOR.)

Maltose, glucose, &c., for food-flavoring. A. O. Probst & Co. No. 128,273; Sept. 7; v. 278; p. 143.
Medicinal preparations for venereal diseases. J. Brémont. No. 129,488; Sept. 7; v. 278; p. 146.
Medicines for the stomach and liver. E. H. Baker. No. 128,647; Sept. 7; v. 278; p. 144.
Music-boxes. Tiffany & Company. No. 135,387; Sept. 7; v. 278; p. 156.
Oil, Corn-. Douglas Company. No. 113,929; Sept. 7; v. 278; p. 139.
Oil, Cotton salad-. Rocco Perretta & Company. No. 134,601; Sept. 7; v. 278; p. 155.
Oils and greases, gasolene, &c., Lubricating. Blery Oil Company. No. 130,798; Sept. 7; v. 278; p. 148.
Oils and greases, Lubricating. The Hulbert Oil & Grease Co. No. 116,774; Sept. 7; v. 278; p. 139.
Oils, greases, and compounds, Motor and lubricating. Petroleum Oil Company. No. 133,934; Sept. 7; v. 278; p. 154.
Ointment for eczema, &c. The Sumellor Company. No. 108,460; Sept. 7; v. 278; p. 139.
Ointment, Nasal. Sinclair Pharmacal Co. No. 128,412; Sept. 7; v. 278; p. 143.
Ointment used in the treatment of pulmonary diseases. Wingate's Salvo Manufacturing Co. No. 128,376; Sept. 7; v. 278; p. 143.
Overalls. L. Lewin Company. No. 133,787; Sept. 7; v. 278; p. 152.
Overalls and work-clothes. Jobbers Overall Co. No. 133,151; Sept. 7; v. 278; p. 150.
Paint. Indiana Indestructible Paint Co. No. 128,966; Sept. 7; v. 278; p. 145.
Paints. Indiana Indestructible Paint Co. No. 128,969; Sept. 7; v. 278; p. 145.
Paints, paint-oils, and varnishes for metal surfaces. The Irvin, Jewell & Vinson Company. No. 130,045; Sept. 7; v. 278; p. 147.
Paints, paint-oils, and varnishes for metal surfaces. The Irvin, Jewell & Vinson Company. No. 130,478; Sept. 7; v. 278; p. 147.
Paper and typewriter-ribbons, Carbon-. De-Fi Manufacturing Company. No. 129,005; Sept. 7; v. 278; p. 145.
Paper, Binders for loose sheets of. Paragon Binder Corporation. No. 103,510; Sept. 7; v. 278; p. 139.
Paper coated on one side with mucilage. Samuel Jones & Company. No. 127,289; Sept. 7; v. 278; p. 142.
Papers, Transparent and gelatin. Chemical Paper Company. No. 130,157; Sept. 7; v. 278; p. 147.
Pencils and fountain-pens, Automatic. Crocker Pen Company. No. 133,403; Sept. 7; v. 278; p. 151.
Pens, Fountain-. The Evans Dollar Pen Company. No. 133,917; Sept. 7; v. 278; p. 154.
Periodical, Weekly. United Publishers Corporation. No. 132,328; Sept. 7; v. 278; p. 149.
Periodicals, Annual. Oscar H. Will & Co. No. 128,575; Sept. 7; v. 278; p. 144.
Phonograph-motors (mechanical). Krasberg Engineering and Manufacturing Corporation. No. 119,074; Sept. 7; v. 278; p. 140.
Pictures. N. Kahn-Lang. Nos. 127,826–7; Sept. 7; v. 278; p. 142.
Pipes, cigarette-holders, tobacco-pouches. The House of Willis. No. 127,246; Sept. 7; v. 278; p. 141.
Powder, Talcum. Talcum Puff Company. No. 128,872; Sept. 7; v. 278; p. 145.
Preparation for influenza. F. P. Gemenden. No. 128,963; Sept. 7; v. 278; p. 145.
Publication. J. F. Fisher. No. 134,815; Sept. 7; v. 278; p. 155.
Punch, Fruit. N. E. French. No. 133,463; Sept. 7; v. 278; p. 151.
Rafts. Martin Olsson & Sons. No. 130,485; Sept. 7; v. 278; p. 147.
Remedy and corn cure, Foot. Aseptic Chemical Company. No. 129,485; Sept. 7; v. 278; p. 146.
Scalp and mange remedy. G. Paquin. No. 128,404; Sept. 7; v. 278; p. 143.
Shoes. A. J. Bates & Company. Nos. 133,005–6; Sept. 7; v. 278; p. 150.
Silk, linen, woolen, &c., piece goods. Haas Brothers Fabrics Corporation. No. 131,872; Sept. 7; v. 278; p. 149.
Silk Piece Goods. Empire Silk Company. No. 135,806; Sept. 7; v. 278; p. 157.
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Silver-plating compound. Metalmend Manufacturing Co. No. 126,737; Sept. 7; v. 278; p. 141.
Snap-fasteners. Carr Fastener Company. No. 135,406; Sept. 7; v. 278; p. 156.
Soda, Cleansing-. E. G. Broderick. No. 129,825; Sept. 7; v. 278; p. 146.
Soap. Ritz Soap Co. No. 131,539; Sept. 7; v. 278; p. 148.
Soap. Swift and Company. No. 131,600; Sept. 7; v. 278; p. 148.
Stamps or coupons, Trading. S. V. D'Unger. No. 128,030; Sept. 7; v. 278; p. 143.
Syrup, Cough-. Dudman Drug & Chemical Co. No. 129,172; Sept. 7; v. 278; p. 146.
Tablets, Antibilious. J. R. Hodges. No. 128,780; Sept. 7; v. 278; p. 144.
Tablets, Phenolphthalein. The William S. Merrell Company. No. 128,418; Sept. 7; v. 278; p. 143.
Telegraphic sending-machines. The Vibroplex Company. No. 132,330; Sept. 7; v. 278; p. 149.
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Toy aeroplanes. P. Pierce. No. 124,355; Sept. 7; v. 278; p. 140.
Toy velocipedes. R. E. Booth. No. 122,242; Sept. 7; v. 278; p. 140.
Trousers. H. Koffler. No. 134,022; Sept. 7; v. 278; p. 154.
Underwear, Woven. American Wholesale Corporation (Baltimore Bargain House). No. 131,098; Sept. 7; v. 278; p. 148.
Waistbands. L. Friedman. No. 133,409; Sept. 7; v. 278; p. 151.
Washing machines, Clothes-. Wayne Manufacturing Company. No. 131,000; Sept. 7; v. 278; p. 148.
Washing-powders. Mato Mfg. Co. No. 117,469; Sept. 7; v. 278; p. 139.
Welding-rods. Oxweld Acetylene Company. No. 134,266; Sept. 7; v. 278; p. 155.
Wool, Compound for cleaning and bleaching. Hagemeyer Trading Company. No. 128,681; Sept. 7; v. 278; p. 144.
Woolen, worsted, &c., piece goods. R. Spitzer. No. 132,063; Sept. 7; v. 278; p. 149.
Wringer and washboard, Combined. The Pierson Company. No. 118,932; Sept. 7; v. 278; p. 140.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 7, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

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4— 18: 1,352,058
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5— 55: 1,351,758
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305— 3: 1,352,260

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 14TH DAY OF SEPTEMBER, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aaseth, Gustav, Christiania, Norway. Machine for cultivating unbroken ground. No. 1,353,012; Sept. 14; v. 278; p. 289.

Abrams, William B., and R. I. Gay, Philadelphia, Pa. Divider for dough or the like. No. 1,352,424; Sept. 14; v. 278; p. 171.

Air Reduction Company. (See Russell, Richard F., assignor.)

Aktiebolaget Gyro. (See Cassell, Gunnar E., assignor.)

Albé, Angelo, Turin, Italy. Type-casting machine. No. 1,352,644; Sept. 14; v. 278; p. 216.

Albers, William C., New York, assignor to A. F. Pierce, Brooklyn, N. Y. Picture-projecting machine. No. 1,352,420; Sept. 14; v. 278; p. 171.

Alsina, Vicente C., and G. Fernandez, Buenos Aires, Argentina. Preserving manufactured or leaf tobacco. No. 1,352,421; Sept. 14; v. 278; p. 171.

Altpeter, Oscar, Milwaukee, Wis. Machine for making composite shingles. No. 1,352,931; Sept. 14; v. 278; p. 273.

Alvin Electrical Products Company. (See Olevin, Adolph, assignor.)

American Coke and Chemical Company. (See Roberts, Arthur, assignor.)

American Cyanamid Company. (See Buchanan, Guy H., assignor.)

American Kron Scale Company. (See Barrett, Joseph C., assignor.)

American Laundry Machinery Company, The. (See Miller, Ernest W., assignor.)

American Safety Device Company. (See Johnston, Frank B., assignor.)

American Telephone and Telegraph Company. (See Campbell, George A., assignor.)

American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)

American Telephone and Telegraph Company. (See Mills, John, assignor.)

American Telephone & Telegraph Company. (See Sinclair, Charles G., Jr., assignor.)

Anderson, Caroline E., Park City, Utah. Maternity-corset. No. 1,352,422; Sept. 14; v. 278; p. 171.

Anderson, Nils O., and C. Scheich, Chicago, Ill. Antiseptic-powder-dispensing pencil. No. 1,352,932; Sept. 14; v. 278; p. 273.

Andrew, Frederick W., assignor to Elsemann Magneto Corporation, Brooklyn, N. Y. Coupling for impulse-starters. No. 1,352,864; Sept. 14; v. 278; p. 260.

Angier, Edward H., Framingham, Mass. Composite sheet. No. 1,352,774; Sept. 14; v. 278; p. 242.

Anthony, David W., assignor to Anthony Liquid Vending Machine Co., Minneapolis, Minn. Liquid-vending machine. No. 1,352,645; Sept. 14; v. 278; p. 216.

Appelberry, Daniel L., Hammond, Ind. Beef-splitting machine. No. 1,353,013; Sept. 14; v. 278; p. 289.

Arnold, Clarence F., Philadelphia, Pa. Walking doll. No. 1,352,933; Sept. 14; v. 278; p. 273.

Arntzen, Anders, and K. Trosdahl, assignors to Elektrisk Varmeteknik A/S., Sarpsborg, Norway. Electric-heating body. No. 1,352,934; Sept. 14; v. 278; p. 274.

Anthony Liquid Vending Machine Co. (See Anthony, David W., assignor.)

Arbon, Paul, Tulsa, Okla. Casing-head. No. 1,352,423; Sept. 14; v. 278; p. 171.

Armes Automatiques Lewis. (See Hulse, Frederick W., assignor.)

Ashby, Earnest J., Henderson, Ky. Trowel. No. 1,353,014; Sept. 14; v. 278; p. 289.

Ashtabula Bow Socket Company, The. (See Lewis, Frederick K., assignor.)

Augestad, Arent, Marka Brandbu Station, Hadeland, Norway. Inlay-sole for the prevention of the development of galls. No. 1,352,865; Sept. 14; v. 278; p. 260.

Austral Window Co. (See Kellogg, Waldo S., assignor.)

Auto & Motor Truck Axle Company, The. (See Young, Clifford H.)

Auto Pneumatic Action Co. (See Heller, Henry R., assignor.)

Automatic Electric Company. (See Jacobsen, Emil, assignor.)

Ayars, Charles H., Salem, N. J. Can-distributing device. No. 1,352,718; Sept. 14; v. 278; p. 230.

Balduf, Bruno E. (See Kochendorfer, F. S., and Balduf.)

Baldwin, Abram T., deceased; C. P. Baldwin, executrix, Detroit, Mich. Draft-gage. No. 1,352,719; Sept. 14; v. 278; p. 231.

Baldwin, Catherine P., executrix. (See Baldwin, Abram T.)

Balfour, Eva L. D. B. and J. W. B., London, England. Spike. No. 1,352,573; Sept. 14; v. 278; p. 201.

Balfour, John W. B. (See Balfour, Eva L. D. B. and J. W. B.)

Baltzley, Oren F., Hagerstown, assignor to The Liberty Tool Company, Baltimore, Md. Apparatus for drilling, reaming, and countersinking. No. 1,352,646; Sept. 14; v. 278; p. 216.

Barbers Electric Specialty Company, The. (See Coffman, Samuel M., assignor.)

Barnes, George W., and D. C. Travis, assignors to Simmons Company, Kenosha, Wis. Spring construction. No. 1,352,574; Sept. 14; v. 278; p. 202.

Barrett Company, The. (See Perry, Ray P., assignor.)

Barrett, Joseph C., Brooklyn, assignor to American Kron Scale Company, New York, N. Y. Weighing-scale. No. 1,352,935; Sept. 14; v. 278; p. 274.

Barrett, Thomas F., South Pottstown, Pa. Power transmission and storage apparatus. No. 1,352,936; Sept. 14; v. 278; p. 274.

Bastian Bros. Company. (See Mitchel, Charles F., assignor.)

Batchelder, Frank R. (See Jennings, Victor H., assignor.)

Bausch & Lomb Optical Company. (See Patterson, William L., assignor.)

Baymiller, Joel F., Buhl, Idaho. Revolving housekeeping-cabinet. No. 1,352,496; Sept. 14; v. 278; p. 186.

Beanblossom, Albert C., Des Moines, Iowa. Power attachment for automobiles. No. 1,352,497; Sept. 14; v. 278; p. 186.

Bears, Daniel S., assignor to Reliance Manufacturing Co., Providence, R. I. Belt-buckle. No. 1,352,937; Sept. 14; v. 278; p. 274.

Behr, Ernst, Saratoga Springs, N. Y. Leaf-turning device. No. 1,353,015; Sept. 14; v. 278; p. 289.

Bell, George A., assignor of one-half to L. C. Hammond, Silver Creek, N. Y. Spark-plug. No. 1,352,775; Sept. 14; v. 278; p. 242.

Bell, Henry W. (See Currie, J., and Bell.)

Benecke, Louis A., *et al.* (See Flatau, Louis S., assignor.)

Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Separable attachment device. No. 1,352,776; Sept. 14; v. 278; p. 242.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Illuminating device. No. 1,352,777; Sept. 14; v. 278; p. 242.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Combined connecting-block and fuse-block. No. 1,352,778; Sept. 14; v. 278; p. 243.

Benton, George T., assignor of one-half to O. A. McDill, Willow Springs, Mo. Double clamp. No. 1,352,647; Sept. 14; v. 278; p. 216.

Berger, Charles F., Pelham, N. Y. Chalk-trough. No. 1,352,720; Sept. 14; v. 278; p. 231.

Berger, Charles F., Pelham, N. Y. Combination chalk-trough. No. 1,352,721; Sept. 14; v. 278; p. 231.

Bernard, Thomas E., Lakeview, Oreg. Wire-screen holding and dispensing receptacle. No. 1,353,016; Sept. 14; v. 278; p. 290.

Bernecker, George E., assignor to Standard Accessory Corporation, Milwaukee, Wis. Phonograph-lighting attachment. No. 1,352,779; Sept. 14; v. 278; p. 243.

Beyer, Herman E., New York, N. Y., and W. G. Hall, Honolulu, Hawaii, assignors to Ingersoll-Rand Company, Jersey City, N. J. Rectifier and condenser. No. 1,352,648; Sept. 14; v. 278; p. 216.

Bidwell, George L., Riegelsville, Pa. Hard-stock whipper. No. 1,352,866; Sept. 14; v. 278; p. 260.

Bingaman, Charles A., Reading, Pa. Crane. No. 1,352,575; Sept. 14; v. 278; p. 202.

Bird, Milton W., Wenatchee, Wash. Fruit-grading machine. No. 1,352,780; Sept. 14; v. 278; p. 243.

Birkenfeld, Benjamin, New York, N. Y. Automobile signaling device. No. 1,352,781; Sept. 14; v. 278; p. 243.

Birnbaum, Charles. (See Eliasoff, A. L., and Birnbaum.)

Blair, Robert S., South Orange, N. J. Firearm. No. 1,352,938; Sept. 14; v. 278; p. 274.
Blair, Shiras A., Indianapolis, Ind. Washing system. No. 1,352,867; Sept. 14; v. 278; p. 261.
Blake, George H., Alameda, Calif. Device for supplying water-moisture to intake of internal-combustion engines. No. 1,352,649; Sept. 14; v. 278; p. 217.
Blake & Johnson Company, The. (See Duston, Ernest W., assignor.)
Blanchard, Casper E., Chicago, Ill. Bottle-closure. No. 1,352,650; Sept. 14; v. 278; p. 217.
Blomstrom, Carl H., Detroit, Mich. Steering mechanism. No. 1,352,868; Sept. 14; v. 278; p. 261.
Bloom, David, Berkeley, Calif. Receptacle-closure. No. 1,353,017; Sept. 14; v. 278; p. 290.
Blount, William H. (See Sleeper, F. H., and Blount.)
Boeck, Charles H., assignor to White Frost Refrigerator Company, Jackson, Mich. Water-cooler for refrigerators. No. 1,353,018; Sept. 14; v. 278; p. 290.
Boker, Vitus A., Minneapolis, assignor to The E. G. Staude Manufacturing Co., St. Paul, Minn. Radiator-fan-supporting means. No. 1,352,869; Sept. 14; v. 278; p. 261.
Bolls, William W., Washington, D. C. Pulp-canal file. No. 1,353,019; Sept. 14; v. 278; p. 290.
Booth, William T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter. No. 1,352,939; Sept. 14; v. 278; p. 274.
Boston Scale and Machine Co. (See Davis, John V., assignor.)
Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,352,651; Sept. 14; v. 278; p. 217.
Bowers, Walter C., Dayton, Ohio. Making ring-mountings. No. 1,352,870; Sept. 14; v. 278; p. 261.
Bowman, Clyde. (See St. John, G. E., and Bowman.)
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Dispensing device. No. 1,352,425; Sept. 14; v. 278; p. 172.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-hanger. No. 1,352,652; Sept. 14; v. 278; p. 217.
Boye, James H., Manufacturing Company. (See Boye, James H., assignor.)
Bradford, Bruce B., Hot Springs, Mont. Pen and feed pusher. No. 1,352,498; Sept. 14; v. 278; p. 186.
Brand, Johan W., The Hague, Netherlands. Apparatus for mounting or removing pneumatic tires. No. 1,353,020; Sept. 14; v. 278; p. 290.
Brecht, Frank v., and H. W. Tohtz, assignors to Gus v. Brecht Butcher's Supply Company, St. Louis, Mo. Beater for hog-scraping machines. No. 1,352,576; Sept. 14; v. 278; p. 200.
Brecht, G. v., Butcher's Supply Company. (See Brecht, Frank v., and Tohtz, assignors.)
Brenizer, Orson W., Philadelphia, Pa. Hair-curler. No. 1,352,871; Sept. 14; v. 278; p. 262.
Broadwell, Harry M., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Inclosed-switch construction. No. 1,353,021; Sept. 14; v. 278; p. 291.
Broc, Victor H., Neuilly-sur-Seine, France. Electrical connector. No. 1,352,499; Sept. 14; v. 278; p. 187.
Brock, Maynor D., Kansas City, Mo. Adjustable toy vehicle. No. 1,352,577; Sept. 14; v. 278; p. 202.
Brooks, James G., Rushville, Nebr. Hinge or hanger. No. 1,352,782; Sept. 14; v. 278; p. 244.
Brown, Alexander T., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y. Gear-grinding machine. No. 1,352,872; Sept. 14; v. 278; p. 262.
Brown & Bigelow. (See Welcker, Paul H., assignor.)
Brown, Fay C., Berkeley, Calif. Optiphone. No. 1,352,940; Sept. 14; v. 278; p. 274.
Brown, Herbert V., Cherry Tree borough, Pa. Mine-haul. No. 1,352,653; Sept. 14; v. 278; p. 218.
Brown-Lipe Gear Company. (See Brown, Alexander T., assignor.)
Brown-Lipe-Chapin Co. (See Ormsby, Donald D., assignor.)
Brown, Norman, Muenster, Tex. Banjo. No. 1,352,654; Sept. 14; v. 278; p. 218.
Bruce, William M., Jr., Springfield, Ohio. Telegraphy. No. 1,352,873; Sept. 14; v. 278; p. 262.
Buchanan, Guy H., Roselle, N. J., assignor to American Cyanamid Company, New York, N. Y. Producing hydrocyanic acid. No. 1,352,655; Sept. 14; v. 278; p. 218.
Buckham, George T. (See Dawson, A. T., and Buckham.)
Bumgarner, Stephen O, Given, Ohio. Elevator for silos. No. 1,352,500; Sept. 14; v. 278; p. 187.
Burch, William H., St. Louis, Mo. Automobile-indicator. No. 1,352,874; Sept. 14; v. 278; p. 262.
Busch-Sulzer Bros.-Diesel Engine Company. (See Zhindon, Eugen, assignor.)
Butler, Charles H. (See Peirson, C. H., and Butler.)
Butters-Camp Mfg. Co., The. (See Camp, W. H., and Butters, assignors.)
Butters, Robert H. (See Camp, W. H., and Butters.)
Butterworth, Joseph A., assignor to Herbert Morris, Limited, Loughborough, England. Elevating-trucks. No. 1,352,426; Sept. 14; v. 278; p. 172.
Cahill, John, Norfolk, Va. Flexible curtain. No. 1,352,656; Sept. 14; v. 278; p. 218.
Caldwell, Noah L., Knoxville, Tenn. Tire-removing apparatus. No. 1,352,722; Sept. 14; v. 278; p. 231.
Cameron Can Machinery Co. (See Cameron, William, assignor.)
Cameron, Theodore R., San Antonio, Tex. Power reversing mechanism. No. 1,352,784; Sept. 14; v. 278; p. 244.
Cameron, Theodore R., San Antonio, Tex. Feeding apparatus for baling-presses. No. 1,352,785; Sept. 14; v. 278; p. 244.
Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Can-end-feeding mechanism. No. 1,352,578; Sept. 14; v. 278; p. 202.
Camp, Warner H., and R. H. Butters, assignors to The Butters-Camp Mfg. Co., Atlanta, Ga. Gin or linter saw teeth. No. 1,353,022; Sept. 14; v. 278; p. 291.
Campbell, George A., assignor to American Telephone and Telegraph Company, Montclair, N. J. Four-wire transmission system. No. 1,352,786; Sept. 14; v. 278; p. 244.
Candee, Andrew H., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. System of control. No. 1,352,427; Sept. 14; v. 278; p. 172.
Card, Samuel, East Providence, R. I. Separator for spinning-frames. No. 1,352,657; Sept. 14; v. 278; p. 218.
Carey, Charles H., Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-press. No. 1,352,501; Sept. 14; v. 278; p. 187.
Carleton, Paul W. (See Lamb, A. B., Miller, and Carleton.)
Carlisle, Bert, Santa Ana, Calif. Direction-indicator for automobiles. No. 1,353,023; Sept. 14; v. 278; p. 291.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Cuff-link. No. 1,353,109; Sept. 14; v. 278; p. 307.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,353,110; Sept. 14; v. 278; p. 308.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,353,111; Sept. 14; v. 278; p. 308.
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carrette, Armand, Paris, France. Screwing apparatus. No. 1,353,024; Sept. 14; v. 278; p. 291.
Carter, Howard O., Detroit, Mich. Headlight-deflector. No. 1,352,579; Sept. 14; v. 278; p. 203.
Cassel, Gunnar E., assignor to Aktiebolaget Gyro, Stockholm, Sweden. Parallel beach-vise. No. 1,352,787; Sept. 14; v. 278; p. 245.
Catron, John J., Bonham, Tex. Liquid storage and dispensing apparatus. No. 1,352,788; Sept. 14; v. 278; p. 245.
Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Brake for window-sashes. No. 1,352,875; Sept. 14; v. 278; p. 262.
Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)
Chapman, Richard D. (See Crook, A., and Chapman.)
Chase, Harry M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,352,428; Sept. 14; v. 278; p. 172.
Chemical Foundation, The. (See Theil, Otto, assignor.)
Chemical Foundation, The. (See Schwerin, Botho, assignor.)
Chemical Foundation, The. (See Tambach, Rudolf, assignor.)
Chicago Railway Equipment Company. (See William, Charles H., assignor.)
Chicken, C. B., and J. H. Thain, assignors to Sir W. G. Armstrong, Whitworth and Company Limited, Newcastle-upon-Tyne, England. Electrical signaling apparatus. No. 1,353,025; Sept. 14; v. 278; p. 291.
Cincinnati Lathe & Tool Company, The. (See Thiel, Louis, assignor.)
Ciuille, Georges, Epierre, France. Manufacture of steel. No. 1,352,580; Sept. 14; v. 278; p. 203.
Clare, Peter, assignor of one-half to G. W. Wilson, Valley, Wash. Hook. No. 1,353,026; Sept. 14; v. 278; p. 292.
Clarke, Alex A., Dallas, Tex. Handle attachment for surface-treating machines. No. 1,352,581; Sept. 14; v. 278; p. 203.
Clarke, Alex A., Dallas, Tex. Surface-treating device. No. 1,352,582; Sept. 14; v. 278; p. 203.
Clarke, Alex A., Dallas, Tex. Surface-treating machine. No. 1,352,583; Sept. 14; v. 278; p. 203.
Clarke, St. John, Bogota, N. J. Shore-protector. No. 1,352,429; Sept. 14; v. 278; p. 172.
Clarke, William, Montreal, Quebec, Canada. Liquid-fuel burner. No. 1,353,112; Sept. 14; v. 278; p. 308.
Clay, William H., Eustis, Fla. Bow-facing oar. No. 1,353,027; Sept. 14; v. 278; p. 292.
Clements, William E., assignor of one-half to A. C. Penner, Oroville, Calif. Electrode-holder. No. 1,353,028; Sept. 14; v. 278; p. 292.
Coffman, Samuel M., assignor to The Barbers Electric Specialty Company, Kansas City, Mo. Electric hair-drying device. No. 1,352,876; Sept. 14; v. 278; p. 263.
Cogliolo, Tomaso S., assignor to Società Esercizio Bacini, Industrials, Genoa, Italy. Marine propeller. No. 1,352,877; Sept. 14; v. 278; p. 263.
Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction solder-pot heater. No. 1,352,430; Sept. 14; v. 278; p. 173.
Coleman, Stephen L. C., Fredericton, New Brunswick, Canada. Shock-absorbing mechanism for motor-vehicles. No. 1,353,029; Sept. 14; v. 278; p. 292.

Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ignition system. No. 1,352,431; Sept. 14; v. 278; p. 173.
Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical ignition system. No. 1,352,432; Sept. 14; v. 278; p. 173.
Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical ignition system. No. 1,352,433; Sept. 14; v. 278; p. 173.
Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Ignition system. No. 1,352,434; Sept. 14; v. 278; p. 173.
Consumers Biscuit Company. (See Rizzuto, James, assignor.)
Cook, Elmer E., Sharon Hill, assignor of one-half to D. Thorton, Ada, Pa. Six-wheel pivotal bogie-truck. No. 1,352,878; Sept. 14; v. 278; p. 263.
Cosimeter Company. (See Fowler, Edward E., assignor.)
Cotton, Alfred, and L. F. Koellner, Hartford, Conn. Sheet-metal wheel. No. 1,352,723; Sept. 14; v. 278; p. 231.
Cox, Arthur O., and P. Sager, Watsonville, Calif. Cultivator. No. 1,352,783; Sept. 14; v. 278; p. 244.
Craig, Joseph E., Gary, Ind. Combined dental mirror and syringe. No. 1,352,789; Sept. 14; v. 278; p. 245.
Crofut & Knapp Company. (See Josephs, Julius, assignor.)
Crompton & Knowles Loom Works. (See Regan, John, assignor.)
Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
Crompton & Knowles Loom Works. (See Stone, Charles M., assignor.)
Crook, Alfred, and R. D. Chapman, Philadelphia, Pa., assignors to Taylor-Wharton Iron and Steel Company, Highbridge, N. J. Method and means for making asbestos shingles. No. 1,352,941; Sept. 14; v. 278; p. 275.
Cummings, Henry H. (See Thompson, J. T., and Cummings.)
Curran, Edward T., Detroit, Mich. Radiator. No. 1,352,584; Sept. 14; v. 278; p. 204.
Currie, John, and H. W. Bell, Seattle, Wash. Dust-cap for pneumatic valves. No. 1,353,125; Aug. 14; v. 278; p. 310.
Cutler-Hammer Mfg. Co., The. (See Holder, William H., assignor.)
Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
Dahlstrom, John J., Amite, La. Collapsible crate. No. 1,353,030; Sept. 14; v. 278; p. 292.
Danforth, Harland A., Saugus, Mass. Shock-absorber. No. 1,352,724; Sept. 14; v. 278; p. 732.
Danielsson, Axel, Gottenborg, Sweden. Machine for grinding concaved spherical surfaces. No. 1,352,790; Sept. 14; v. 278; p. 245.
Danziger, Adolphe. (See Rider, Thomas B., assignor.)
Davis-Bournonville Company. (See Plumley, Stuart, assignor.)
Davis, H. G., Manufacturing Company. (See Henry, George W., Jr., assignor.)
Davis, Harry S., Indianapolis, Ind. Weather-strip. No. 1,352,879; Sept. 14; v. 278; p. 263.
Davis, Henry J., Waynesboro, Ga. Agricultural machine. No. 1,352,725; Sept. 14; v. 278; p. 232.
Davis, John V., Kelseyville, Calif., assignor, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Automatic weighing and recording scale. No. 1,352,880; Sept. 14; v. 278; p. 263.
Dawley, James C. (See Rinsch, C. W., and Dawley.)
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,352,791; Sept. 14; v. 278; p. 246.
Day, John L., Memphis, Tenn. Fuel-tank. No. 1,352,792; Sept. 14; v. 278; p. 246.
Day and Zimmerman. (See Remington, Joseph P., assignor.)
Daysh, Norman J., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Milking machinery. No. 1,352,726; Sept. 14; v. 278; p. 232.
Dean, Anthony E. (See Winters, Robert E., assignor.)
Deets, Clarence L., Portland, Oreg. Fishing-reel. No. 1,353,113; Sept. 14; v. 278; p. 308.
Defiance Check Writer Corporation. (See Plant, Henry J., assignor.)
Delamater, George R., Steelton, Pa. Mineral-washing apparatus. No. 1,352,727; Sept. 14; v. 278; p. 233.
Delaney, Edward C., New York, N. Y. Seating plan and class-record. No. 1,352,728; Sept. 14; v. 278; p. 233.
De Laval Separator Company, The. (See Daysh, Norman J., assignor.)
Demarest, Charles S., assignor to American Telephone and Telegraph Company, Brooklyn, N. Y. Vacuum-bulb for signaling apparatus. No. 1,353,031; Sept. 14; v. 278; p. 292.
Dennert, Edward C., assignor to Westinghouse Electric and Manufacturing Company, Detroit, Mich. Beverage-preparing machine. No. 1,352,435; Sept. 14; v. 278; p. 178.
Denver Rock Drill Manufacturing Company, The. (See Chase, Harry M., assignor.)
Denver Rock Drill Manufacturing Company. (See Nell, Gustave M., assignor.)
De Teixeira, Anna L. H. (See de Teixeira, Eugenio, assignor.)
De Teixeira, Eugenio, assignor to A. L. H. De Teixeira, Setauket, N. Y. Table implement. No. 1,353,090; Sept. 14; v. 278; p. 304.
De Vaughn, Harry E., assignor to United States Window Glass Company, Morgantown, W. Va. Window-glass-flattening oven. No. 1,352,881; Sept. 14; v. 278; p. 264.
Dickey, Daniel A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Forming composite bodies. No. 1,352,436; Sept. 14; v. 278; p. 174.
Dies, Charles A., Chicago, Ill. Slicing-machine. No. 1,352,658; Sept. 14; v. 278; p. 218.
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Clutch and brake mechanism. No. 1,352,585; Sept. 14; v. 278; p. 204.
Dodge, Charlie B. (See Dodge, Lewis, and C. B.)
Dodge, Lewis, and C. B., Morse Bluff, Nebr. Pneumatic foot. No. 1,352,942; Sept. 14; v. 278; p. 275.
Dodge, Lewis, and C. B., Morse Bluff, Nebr. Pneumatic foot. No. 1,352,943; Sept. 14; v. 278; p. 275.
Dodgson, Frank L., Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y. Railway signaling system. No. 1,352,793; Sept. 14; v. 278; p. 246.
Donegan, David H., Saw Pit, Colo. Ore-concentrator. No. 1,352,882; Sept. 14; v. 278; p. 264.
Drake, Alfred E., assignor to Drake Manufacturing Company, Indianapolis, Ind. Steering device. No. 1,352,659; Sept. 14; v. 278; p. 219.
Drake Manufacturing Company. (See Drake, Alfred E., assignor.)
Duensing, A'Quilla, Altoona, Iowa. Printing device. No. 1,353,032; Sept. 14; v. 278; p. 293.
Dufour, Pierre F., Paris, France. Brake for railway-trains. No. 1,352,586; Sept. 14; v. 278; p. 204.
Duston, Ernest W., assignor to The Blake & Johnson Company, Waterbury, Conn. Rolling-mill bridle. No. 1,352,587; Sept. 14; v. 278; p. 204.
Dutreux, Auguste, assignor to Societe Anonyme pour l'Eclairage Electrique des Vehicules, Issy Les Moulineaux, France. Electric starting system for internal-combustion engines. No. 1,352,794; Sept. 14; v. 278; p. 246.
Duvall, Adele, Chicago, Ill. Underwear. No. 1,352,944; Sept. 14; v. 278; p. 275.
Dyer, William H. (See Robertson, S. M., and Dyer.)
Dyson, Alfred H., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,352,660; Sept. 14; v. 278; p. 219.
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Eastlake, Lewis S., Chicago, Ill. Making lubricating-oils. No. 1,352,502; Sept. 14; v. 278; p. 187.
Eberhart, Cleburne, Jr., assignor to Play-O-Lite Company, Incorporated, Buffalo, N. Y. Piano-lamp. No. 1,353,033; Sept. 14; v. 278; p. 293.
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Egedi, Paul, Buffalo, N. Y. Water-motor. No. 1,352,588; Sept. 14; v. 278; p. 204.
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Elbertz, Frank V., assignor to B. F. Everitt Company, Detroit, Mich. Differential mechanism. No. 1,352,590; Sept. 14; v. 278; p. 205.

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Elia, Giovanni E., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,352,795; Sept. 14; v. 278; p. 246.
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Epright, Alonzo W., and W. H. Grindall, Altoona, Pa. Railway-track scale. No. 1,352,441; Sept. 14; v. 278; p. 175.
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Fairley, Taliaferro J., assignor to Southern Pine Products Co., Inc., New Orleans, La. Extraction. No. 1,353,035; Sept. 14; v. 278; p. 293.
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Flatau, Louis S., St. Louis, assignor of one-third to I. A. Hedges, Webster Grove, and one-third to L. A. Benecke, St. Louis, Mo. Spark-plug. No. 1,352,592; Sept. 14; v. 278; p. 205.
Floresco, Silvio, Berne, Switzerland. Means and method of treating stringed instruments to improve quality of tone. No. 1,352,442; Sept. 14; v. 278; p. 175.
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Fowler, Edward E., Winthrop, assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,352,507; Sept. 14; v. 278; p. 188.
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French, Albert F., Detroit, Mich. Filler composition. No. 1,352,741; Sept. 14; v. 278; p. 235.
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Fries, Edward A., assignor to Randall & Fries, Boston, Mass. Machine for turning plastic material. No. 1,352,443; Sept. 14; v. 278; p. 175.
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Fuhrmann, Warren, Westfield, N. J., assignor, by mesne assignments, to Wilkinson Brothers and Company, Incorporated, New York, N. Y. Ribbon-shifting means for calculators. No. 1,352,503; Sept. 14; v. 278; p. 205.
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Ganss, William H., Toledo, Ohio. Lock. No. 1,352,890; Sept. 14; v. 278; p. 265.
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Genebach, George J., assignor to United Steel and Wire Co., Battle Creek, Mich. Poultry-crate. No. 1,352,444; Sept. 14; v. 278; p. 175.
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Green, Lee B., Detroit, Mich., assignor to The Federal Machine Products Co., Cleveland, Ohio. Ignition-trouble finder. No. 1,352,662; Sept. 14; v. 278; p. 219.
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Griswold, Leslie W., Des Moines, Iowa. Air-control device for engines. No. 1,352,509; Sept. 14; v. 278; p. 188.
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Hachmann, Frederick, assignor of one-half to H. Stifel, St. Louis, Mo., one-sixteenth to P. E. Moody and one-sixteenth to C. R. Watson, Detroit, Mich., one-eighth to D. M. Hutchinson, Ferguson, Mo., and one-sixteenth to H. A. Wright, Detroit, Mich. Piston. No. 1,353,041; Sept. 14; v. 278; p. 294.
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Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,352,447; Sept. 14; v. 278; p. 176.
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Hansen, Viggo N., Winnetka, assignor to Standex Manufacturing Corporation, Chicago, Ill. Engine-controlled lubricating system. No. 1,352,954; Sept. 14; v. 278; p. 277.
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Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Means for feeding articles in stacked relation. No. 1,352,745; Sept. 14; v. 278; p. 236.
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Hart, Hubert C., Unionville, Conn. Polishing and buffing metal articles. No. 1,352,598; Sept. 14; v. 278; p. 206.
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Hartog, Stephen D., assignor to S. D. Hartog Manufacturing Company, St. Louis, Mo. Valve-facing tool. No. 1,352,599; Sept. 14; v. 278; p. 206.
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Haskell, Henry L., Ludington, assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Aeroplane. No. 1,352,600; Sept. 14; v. 278; p. 207.
Hastam & Stretton Limited. (See Stratton, T., and Jones, assignors.)
Hatmaker, William T., assignor to The Huffman Recording Pump Company, Dayton, Ohio. Liquid-dispensing pump. No. 1,352,664; Sept. 14; v. 278; p. 220.
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Hayes, Stephen Q., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting system. No. 1,352,451; Sept. 14; v. 278; p. 176.
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Healy, Maurice F., Watertown, Mass. Lifting-dog. No. 1,352,665; Sept. 14; v. 278; p. 220.
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Heller, Henry R., assignor, by mesne assignments, to Auto Pneumatic Action Co., New York, N. Y. Musical instrument. No. 1,352,958; Sept. 14; v. 278; p. 278.
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Holcomb and Hoke Manufacturing Company. (See Holcomb, J. I., and Hoke, Jr., assignors.)
Holcomb & Hoke Manufacturing Company. (See Tripp, Charles E., assignor.)
Holcomb, James I., and J. F. Hoke, Jr., assignors to Holcomb and Hoke Manufacturing Company, Indianapolis, Ind. Amusement apparatus. No. 1,352,666; Sept. 14; v. 278; p. 220.
Holder, William H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical controller. No. 1,352,896; Sept. 14; v. 278; p. 266.
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Holt, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Storage-battery locomotive. No. 1,352,452; Sept. 14; v. 278; p. 177.
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Hubbell, Harvey, Bridgeport, Conn. Electric-switch mechanism. No. 1,352,604; Sept. 14; v. 278; p. 207.
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Hulse, Frederick W., Northfield, near Birmingham, England, assignor of one-half to Armes Automatiques Lewis, Antwerp, Belgium. Cartridge-extractor for firearms. No. 1,352,515; Sept. 14; v. 278; p. 190.
Hultberg, John E., Warren, Pa. Tool-handle. No. 1,353,043; Sept. 14; v. 278; p. 295.
Hunt, Nathaniel H., assignor of one-half to W. G. Kent, London, England. Means for measuring the velocity of a moving body. No. 1,352,809; Sept. 14; v. 278; p. 249.
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Hunter, Alfred R., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-working machine. No. 1,353,115; Sept. 14; v. 278; p. 308.
Hunter, Percy E., Pittsburgh, Pa. Metal supporting and transferring table. No. 1,352,811; Sept. 14; v. 278; p. 250.
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Irrgang, Hans F., St. Maries, Idaho. Electric switch. No. 1,352,966; Sept. 14; v. 278; p. 280.
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Jackson, Henry O., assignor to The Jackson Compressor Company, Denver, Colo. Rotary air-compressor. No. 1,352,750; Sept. 14; v. 278; p. 237.

Jackson, Henry O., assignor to The Jackson Compressor Company, Denver, Colo. Rotary air-compressor. No. 1,352,751; Sept. 14; v. 278; p. 237.

Jacoby, Charles N. (See Richardson, D., and Jacoby.)

Jacobs, George, Detroit, Mich. Resilient wheel. No. 1,352,752; Sept. 14; v. 278; p. 238.

Jacobsen, Emil, Evanston, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,352,605; Sept. 14; v. 278; p. 208.

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jenckes Spinning Company. (See Wood, William P., assignor.)

Jennings, Victor H., Worcester, Mass., assignor, by mesne assignments, to F. R. Batchelder. Woven carrier. No. 1,352,453; Sept. 14; v. 278; p. 177.

Johnson, Emil F., Lamberton, Minn. Shortening attachment for reins. No. 1,352,812; Sept. 14; v. 278; p. 250.

Johnston, Frank B., assignor to American Safety Device Company, New York, N. Y. Safety-scaffold. No. 1,352,454; Sept. 14; v. 278; p. 177.

Johnston, Frank B., assignor to American Safety Device Company, New York, N. Y. Scaffold-supporting machine. No. 1,352,455; Sept. 14; v. 278; p. 177.

Johnson, Harry L., assignor to Percy E. Ginn, Boston, Mass. Package-sealing machine. No. 1,352,899; Sept. 14; v. 278; p. 267.

Johnson, Howard A., Norfolk, Va. Multiple sliding door for use in airplane-hangars or other large openings. No. 1,352,606; Sept. 14; v. 278; p. 208.

Johnson, Thomas A., Rockford, Ill. Bottle-stopper protector and supporter. No. 1,352,967; Sept. 14; v. 278; p. 280.

Jones, Charles H., Medford, Mass. Mechanism for guiding and spacing candy. No. 1,352,607; Sept. 14; v. 278; p. 208.

Jones, John W. (See Stretton, T., and Jones.)

Josephs, Julius, assignor to the Crofut & Knapp Company, New York, N. Y. Cap. No. 1,352,968; Sept. 14; v. 278; p. 281.

Joyce-Cridland Company, The. (See Ripsch, C. W., and Dawley, assignors.)

Kabushiki-Kwaisha Mamiyado. (See Mamiya, Katsusaburo, assignor.)

Kalata, Frank, Springfield, Ill. Car-coupling. No. 1,352,516; Sept. 14; v. 278; p. 190.

Kalix, John, White Plains, N. Y. Carrier. No. 1,352,969; Sept. 14; v. 278; p. 281.

Kaltenbach, Robert W., assignor to The McMyler Interstate Company, Cleveland, Ohio. Box-car unloader. No. 1,352,608; Sept. 14; v. 278; p. 208.

Kastenholz, Charles C., *et al.* (See Kugler, James R., and E. W., assignors.)

Kays, Charles A. (See Wilhem, J., and Kays.)

Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,352,970; Sept. 14; v. 278; p. 281.

Keffer, Charles A. (See Stehle, F., and Keffer.)

Kehawke Mfg. Co. (See Hawkinson, Paul E., assignor.)

Keiper, Henry B., Lancaster, Pa. Ball retainer and separator for thrust-bearings. No. 1,353,044; Sept. 14; v. 278; p. 295.

Kellam, Albert S., and N. F. Norvell, Richmond, Va. Valve. No. 1,352,900; Sept. 14; v. 278; p. 267.

Kellogg, Waldo S., assignor to Austral Window Co., New York, N. Y. Balanced window. No. 1,352,971; Sept. 14; v. 278; p. 281.

Kelly, James, Eagle Pass, Tex., assignor of one-half to G. Honetschlager, Stanford, Mont. Ignition system for gas-engines. No. 1,353,045; Sept. 14; v. 278; p. 295.

Kemble, Charles P. (See Kennicott, C. L., and Kemble.)

Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mold. No. 1,352,457; Sept. 14; v. 278; p. 178.

Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Coal-crusher. No. 1,352,609; Sept. 14; v. 278; p. 208.

Kennicott, Cass L., and C. P. Kemble, Chicago Heights; said Kennicott assignor, by mesne assignments, to A. C. Harding, Chicago, Ill. Machine for forming metal. No. 1,352,813; Sept. 14; v. 278; p. 250.

Kent, Walter G. (See Hunt, Nathaniel H., assignor.)

Kessel, John A., Buffalo, N. Y. Ash-sifter. No. 1,352,667; Sept. 14; v. 278; p. 220.

Keyworth, William C., Paterson, N. J. Swift for reeling-machines. No. 1,352,458; Sept. 14; v. 278; p. 178.

Kimball, Robert E., Cleveland, Ohio. Set-back register. No. 1,352,973; Sept. 14; v. 278; p. 281.

Kimbark, Eugene U., Evanston, Ill. Envelop. No. 1,352,972; Sept. 14; v. 278; p. 281.

King, Edward M., Elida, Ohio. Game apparatus. No. 1,352,517; Sept. 14; v. 278; p. 190.

King, Stewart B., Highlands, N. J. Skiff. No. 1,352,753; Sept. 14; v. 278; p. 238.

Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Trunk for harps or like instruments. No. 1,352,814; Sept. 14; v. 278; p. 250.

Kirsh, Hugh L., Beaver Dam, Wis. Fittings for molding plants. No. 1,352,815; Sept. 14; v. 278; p. 250.

Kauber, Laurence M., assignor of one-half to San Diego Consolidated Gas & Electric Company, San Diego, Calif. Repeating fuse apparatus. No. 1,352,816; Sept. 14; v. 278; p. 251.

Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Attachment-plug. No. 1,352,817; Sept. 14; v. 278; p. 251.

Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,353,124; Sept. 14; v. 278; p. 310.

Knapp, Albert S., assignor to Wickwire Spencer Steel Corporation, Worcester, Mass. Loom for weaving wire-cloth. No. 1,352,610; Sept. 14; v. 278; p. 209.

Knight, Herbert M., Rome, N. Y. Concrete block construction. No. 1,353,046; Sept. 14; v. 278; p. 296.

Kochendorfer, Frederic S., Chicago, and B. E. Balduf, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Annealing-furnace. No. 1,352,459; Sept. 14; v. 278; p. 178.

Koellner, Louie F. (See Cotton, Alfred, and Koellner.)

Komarcsevits, George, Cleveland, Ohio. Street-cleaner. No. 1,353,047; Sept. 14; v. 278; p. 296.

Konyvka, Frank, Cleveland, Ohio. Piston. No. 1,352,460; Sept. 14; v. 278; p. 178.

Koontz, Victor R., assignor to Victor Tool Company, Waynesboro, Pa. Collapsible tap. No. 1,353,048; Sept. 14; v. 278; p. 296.

Kops Bros. (See Kops, Waldemar, assignor.)

Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Brassière. No. 1,352,974; Sept. 14; v. 278; p. 282.

Korn, Joseph, Newark, N. J. Crease-retaining device for hats. No. 1,352,975; Sept. 14; v. 278; p. 282.

Kramer, John S., Steger, Ill. Talking-machine. No. 1,352,901; Sept. 14; v. 278; p. 267.

Kramer, John S., Steger, Ill. Locking device for drawers. No. 1,352,902; Sept. 14; v. 278; p. 267.

Kries, Lawrence F., assignor to C. M. Marshall, trustee, Baltimore, Md. Cartridge-fuse. No. 1,353,123; Sept. 14; v. 278; p. 310.

Krippendorf, Paul F. W. C., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last and last-making. No. 1,352,518; Sept. 14; v. 278; p. 190.

Krotowych, Jhan, Lillian, W. Va. Window curtain and shade support. No. 1,353,122; Sept. 14; v. 278; p. 310.

Kugler, Earl W. (See Kugler, James R., and E. W.)

Kugler, James R., and E. W., Clear Lake, Iowa., assignors to P. Hauenstein, Minneapolis, and C. C. Kastenholz, St. Paul, Minn. Electric retouching-pencil. No. 1,352,976; Sept. 14; v. 278; p. 282.

Ladd, F. C., and F. G. Neal, Springfield, assignors, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass. Paper-finishing machine. No. 1,352,611; Sept. 14; v. 278; p. 209.

Laing, David F., McDonald Hills, Saskatchewan, Canada. Swingletree-clip. No. 1,353,049; Sept. 14; v. 278; p. 296.

Lamb, A. B., Washington, D. C., E. W. Miller, Akron, Ohio, and P. W. Carleton, Penns Grove, N. J. Respirator. No. 1,352,818; Sept. 14; v. 278; p. 352.

Lamb, James J. (See Wright, W. M., Teenies, and Lamb.)

Lambrakos, Peter, New York, N. Y. Milk-can handle. No. 1,353,050; Sept. 14; v. 278; p. 296.

Lance, Alfred F., Chicago, Ill. Spring structure. No. 1,352,612; Sept. 14; v. 278; p. 209.

Landers, Frary & Clark. (See Smith, Herbert M., assignor.)

Langan, James J., New York, N. Y. Cigarette-box. No. 1,352,613; Sept. 14; v. 278; p. 209.

Langlyke, Peter I., Chicago, Ill. Spring structure for cushions. No. 1,352,977; Sept. 14; v. 278; p. 282.

Lantieri, Frank and G., Newark, N. J. Hair waver or curler. No. 1,352,978; Sept. 14; v. 278; p. 282.

Lantieri, Gabriel. (See Lantieri, Frank and G.)

Laserson, Frederick M., New York, N. Y. Electrical cloth-cutter. No. 1,353,052; Sept. 14; v. 278; p. 297.

Laserson, Frederick M., New York, N. Y. Pocket-marking machine. No. 1,353,051; Sept. 14; v. 278; p. 296.

Laserson, Frederick M., New York, N. Y. Portable saw. No. 1,352,519; Sept. 14; v. 278; p. 190.

Lavigne, Joseph P., assignor to United States Novelty Mfg. Co., Detroit, Mich. Packless valve. No. 1,353,053; Sept. 14; v. 278; p. 297.

Lawson, Frans O. (See Wright, J. B., and Lawson.)

Lawrence, Melvin G., Revere, Mass. Fishline-spreader. No. 1,352,979; Sept. 14; v. 278; p. 283.

Lehner, John, Pittsburgh, Pa. Suction mechanism for dental plates. No. 1,352,614; Sept. 14; v. 278; p. 209.

Leland, Floyd L., Flint, Mich. Vacuum-cleaner. No. 1,352,520; Sept. 14; v. 278; p. 191.

Lenholt, John E., assignor of one-half to C. R. Tainter, Guilford, Conn. Wrench. No. 1,352,461; Sept. 14; v. 278; p. 179.

Lentatz, Ambrose, West Hoboken, N. J. Collar-button. No. 1,352,754; Sept. 14; v. 278; p. 238.

Leonard, John E., assignor to The National Motion Picture Camera Company, Los Angeles, Calif. Double-exposure mechanism for motion-picture cameras. No. 1,352,668; Sept. 14; v. 278; p. 220.

Les Successeurs d'Albert Godde. (See Selmbille, Louis E., assignor.)

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,353,054; Sept. 14; v. 278; p. 297.

Levy, Samuel, Knoxville, Tenn. Ice-cream dipper. No. 1,352,755; Sept. 14; v. 278; p. 238.

Levy, Samuel, Knoxville, Tenn. Ice-cream dipper. No. 1,352,756; Sept. 14; v. 278; p. 238.

Lewellen, Rosa B., Hylton, Tex. Garbage-can. No. 1,352,521; Sept. 14; v. 278; p. 191.

Lewis, Frederick K., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Top for vehicles and the like. No. 1,353,129; Sept. 14; v. 278; p. 311.

Lewis, James A., Hartford City, Ind. Groove-cutting tool. No. 1,352,522; Sept. 14; v. 278; p. 191.

Liberty Burner Co. (See Yeager, Matthias S., assignor.)

Liberty Tool Company, The. (See Baltzley, Oren F., assignor.)

Liming, Franz O., Chicago, Ill., assignor of one-half to J. M. Liming, Fairfield, Iowa. Door-controlling apparatus. No. 1,352,980; Sept. 14; v. 278; p. 283.

Lingle, Victor A., Lewisburg, Pa. Coil-box. No. 1,353,116; Sept. 14; v. 278; p. 309.

Liming, John M. (See Liming, Franz O., assignor.)

Lloyd, Winfield S. (See Zeitler, Mary S., and Lloyd.)

Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Tank-car construction. No. 1,352,981; Sept. 14; v. 278; p. 283.

Longmeyer, Emanuel. (See Gracey, James G., assignor.)

Loog, John D., New York, N. Y. Automatic graphite-lubricating system for internal-combustion-engine cylinders. No. 1,353,055; Sept. 14; v. 278; p. 297.

Loscalzo, Angelo, New York, N. Y. Safety-fender. No. 1,352,757; Sept. 14; v. 278; p. 238.

Lougheed, Wellington, Wyandotte, assignor of one-half to J. B. Sparks, Royal Oak, Mich. Door-lock. No. 1,352,819; Sept. 14; v. 278; p. 251.

Ludwig, Charles S., Trenton, N. J. Jelly-strainer. No. 1,353,056; Sept. 14; v. 278; p. 298.

Lum, Walter O., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,352,462; Sept. 14; v. 278; p. 179.

Lüthi, Josef A., Lachen-Vonwil, Switzerland. Snap-hook. No. 1,352,982; Sept. 14; v. 278; p. 283.

Lyon & Healy. (See Kirk, Walter I., assignor.)

McConnell, Nathaniel W., Florence, Colo. Suspender. No. 1,352,903; Sept. 14; v. 278; p. 268.

McDill, Ottis A. (See Benton, George T., assignor.)

McEachern, Dougald, Nelson, British Columbia, Canada. Rail-joint. No. 1,352,669; Sept. 14; v. 278; p. 221.

McIntosh Battery and Optical Co. (See MacLagan, Hector P., assignor.)

McKallip, John C., Houston, Tex. Gasoline-measuring device. No. 1,352,820; Sept. 14; v. 278; p. 251.

McKay, Hugh V., Sunshine, Victoria, Australia. Threshing-machine. No. 1,352,821; Sept. 14; v. 278; p. 252.

McKechnie, James, Barrow-in-Furness, England, assignor to Vickers Limited, London, England. Valve-gear of internal-combustion engines. No. 1,352,758; Sept. 14; v. 278; p. 239.

McKiernan, Elbert, Fort Madison, Iowa. Draft-regulator. No. 1,352,670; Sept. 14; v. 278; p. 221.

McLellan, Charles T., Sioux City, Iowa. Egg-candler. No. 1,352,822; Sept. 14; v. 278; p. 252.

McMath, John F., Oakland, Calif. Casting device. No. 1,352,523; Sept. 14; v. 278; p. 191.

McMyler Interstate Company, The. (See Kaltenbach, Robert W., assignor.)

McNell, Charles H., Beverly, Mass. Weight-operated circuit-closer. No. 1,353,057; Sept. 14; v. 278; p. 298.

McPhail, Archibald, Fargo, N. D., assignor to Sterling Machine and Wire Works, Beneficial Trust Association (Unincorporated), Sterling, Ill. Machine for manufacturing spiral combined reinforcement and fastening. No. 1,352,904; Sept. 14; v. 278; p. 268.

Machrol, Michael, Kenosha, Wis. Fly-wheel balancer. No. 1,352,905; Sept. 14; v. 278; p. 268.

MacLagan, H. P., Park Ridge, assignor to McIntosh Battery and Optical Co., Chicago, Ill. Cassette. No. 1,352,615; Sept. 14; v. 278; p. 209.

Maegly, George B., Kansas City, Mo., assignor to Stromberg Motor Devices Company, Chicago, Ill. Apparatus for supplying fuel to hydrocarbon-motors. No. 1,352,671 Sept. 14; v. 278; p. 221.

Mahoney, James. (See Salmons, C. C., and Mahoney.)

Mamiya, Katsusaburo, Ohito, assignor to Kabushiki-Kwaisha Mamiyado, Tokyo, Japan. Anchoring device for safes. No. 1,352,906; Sept. 14; v. 278; p. 268.

Manly, Walter D., Shackelford county, Tex. Wire-stretching tool. No. 1,352,983; Sept. 14; v. 278; p. 283.

Marble and Shattuck Chair Company, The. (See Onsrud, Oscar, assignor.)

Meredith, W. C., and W. C. Willis, assignors of one-third to R. H. White, Atlanta, Ga. Boring-tool. No. 1,352,825; Sept. 14; v. 278; p. 252.

Markert, John P., New York, N. Y. Carton. No. 1,352,759; Sept. 14; v. 278; p. 239.

Marks, Willard C., assignor to Spang, Chalfant & Co., Incorporated, Etna, Pa. Die-head. No. 1,352,823; Sept. 14; v. 278; p. 252.

Marsh, Edward Washington, D. C. Toy bucket. No. 1,352,463; Sept. 14; v. 278; p. 179.

Marshall, Charles M., trustee. (See Kries, Lawrence F., assignor.)

Martin, Asa L. (See Martin, Clark W., assignor.)

Martin, Clark W., assignor of one-half to A. L. Martin, North Union township, Fayette county, Pa. Gee-strap. No. 1,352,672; Sept. 14; v. 278; p. 221.

Martin, Elizabeth M., Sterling Ill. Combination-boiler. No. 1,352,824; Sept. 14; v. 278; p. 252.

Martin, Thomas P., Jr., Oklahoma, Okla. Pass-book. No. 1,352,907; Sept. 14; v. 278; p. 269.

Matteson, Frederick R., Taunton, assignor to Freeman-Daughaday Company, Chartley, Mass. Separable cuff-button. No. 1,352,908; Sept. 14; v. 278; p. 269.

Mayer, Waldemar F., Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Machine-tool control. No. 1,352,673; Sept. 14; v. 278; p. 222.

Meier, Albert J., Glendale, Mo. Power-generating system. No. 1,352,616; Sept. 14; v. 278; p. 210.

Mersman, Clarence A., Hubbard, Iowa. Fruit-jar vise. No. 1,353,058; Sept. 14; v. 278; p. 298.

Meyer, Henry H., Red Wing, Minn. Grain-separator. No. 1,353,059; Sept. 14; v. 278; p. 298.

Meyers, Henry J., Los Angeles, Calif. Folding bed. No. 1,352,909; Sept. 14; v. 278; p. 269.

Michalek, Frank, Chicago, Ill. Noodle-machine. No. 1,352,826; Sept. 14; v. 278; p. 253.

Miller, Charles, F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple-retort underfeed stoker. No. 1,352,464; Sept. 14; v. 278; p. 179.

Miller, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple-feed horizontal underfeed stoker. No. 1,352,465; Sept. 14; v. 278; p. 179.

Miller, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Underfeed stoker and draft-controlling mechanism therefor. No. 1,352,466; Sept. 14; v. 278; p. 180.

Miller, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple section horizontal underfeed stoker. No. 1,352,467; Sept. 14; v. 278; p. 180.

Miller, Elton W. (See Lamb, A. B., Miller, and Carleton.)

Miller, Ernest W., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Safety device for extractors. No. 1,352,827; Sept. 14; v. 278; p. 253.

Miller, Franklin P., East Orange, N. J. Ice-cream-making machine. No. 1,352,984; Sept. 14; v. 278; p. 283.

Mills, Chester B., East McKeesport, and C. E. Wilson, Wilkinburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Starting system for automobiles. No. 1,352,468; Sept. 14; v. 278; p. 480.

Mills, John, assignor to American Telephone and Telegraph Company, Wyoming, N. J. Four-wire circuit. No. 1,352,828; Sept. 14; v. 278; p. 253.

Milnor, Joseph W., assignor to The Western Union Telegraph Company, New York, N. Y. Voltage-regulator for direct and alternating current generators. No. 1,353,060; Sept. 14; v. 278; p. 298.

Mitchel, Charles F., assignor to Bastian Bros. Company, Rochester, N. Y. Pinwheel. No. 1,352,674; Sept. 14; v. 278; p. 222.

Mittet, Hans P., Aalesund, Norway. Apparatus for hard-twisting of fine and thick threads. No. 1,352,524; Sept. 14; v. 278; p. 191.

Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,352,675; Sept. 14; v. 278; p. 222.

Moody, Philip E., *et al.* (See Hachmann, Frederick, assignor.)

Moore, Charles A., St. Paul, Minn. Heater. No. 1,352,676; Sept. 14; v. 278; p. 222.

Moore, Wade W., Pittsburgh, Pa., assignor to Jesse E. Roach, Oakland, Calif. Eraser attachment for pencils. No. 1,352,677; Sept. 14; v. 278; p. 222.

Morehead, John, Detroit, Mich. Steam-trap. No. 1,352,617; Sept. 14; v. 278; p. 210.

Morgan Construction Company. (See Sheperdson, John W., assignor.)

Morris, Herbert, Limited. (See Butterworth, Joseph A., assignor.)

Mullen, George B., Bay Side, N. Y. Dust-cap for tire-valves. No. 1,353,061; Sept. 14; v. 278; p. 299.

Murnane, Daniel J., Chicago Heights, Ill. Building structure. No. 1,352,678; Sept. 14; v. 278; p. 223.

Murphy Engineering Company. (See Murphy, Peter W., assignor.)

Murphy, Peter W., assignor to The Murphy Engineering Company, Detroit, Mich. Explosive-engine. No. 1,352,985; Sept. 14; v. 278; p. 284.

Murray, James G. (See Sawders, F. P., and Murray.)

Myers, Cornelius T., Detroit, Mich. Air-deflecting device. No. 1,352,679; Sept. 14; v. 278; p. 223.

Nagler, Harry, Brooklyn, N. Y. Show-case lock. No. 1,352,680; Sept. 14; v. 278; p. 223.

Nakasora, Seihachiro, Niles, Calif. Direction-indicator. No. 1,353,128; Sept. 14; v. 278; p. 311.

National Motion Picture Camera Company, The. (See Leonard, John E., assignor.)

Neal, Franklin G. (See Ladd, F. C., and Neal.)

Nell, Gustave M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Valve. No. 1,352,469; Sept. 14; v. 278; p. 180.

Nelson, Arvid, assignor to Howe Lamp & Mfg. Co., Chicago, Ill. Rotary fan. No. 1,352,829; Sept. 14; v. 278; p. 253.

Nelson, Lewis B., Wallingford, Iowa. Dumping-body for vehicles. No. 1,353,062; Sept. 14; v. 278; p. 299.

Newman, Alexander M. (See Seelau, Franz, assignor.)
New Way Machine Company. (See Wright, W. M., Teepies, and Lamb, assignors.)
Nickerson, Frederick M., Everett, assignor to The Phonoharp Company, East Boston, Mass. Playing attachment for zithers. No. 1,352,618; Sept. 14; v. 278; p. 210.
Nicols, William L., Tuscumbia, Ala. Toy cannon. No. 1,352,681; Sept. 14; v. 278; p. 223.
Norfolk, Joseph R. B., Chicago, Ill. Artificial leg. No. 1,352,682; Sept. 14; v. 278; p. 223.
Norris, Paul E., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Terminal structure for electric batteries. No. 1,352,619; Sept. 14; v. 278; p. 210.
Norvell, Norman F. (See Kellam, A. S., and Norvell.)
Nugent, William W., Chicago, Ill. Gravity center-oiler. No. 1,352,986; Sept. 14; v. 278; p. 284.
Nutt, William C., Point Marion, Pa. Power transmission. No. 1,353,063; Sept. 14; v. 278; p. 299.
Obermeyer, Edward C., Nessen City, Mich. Adjustable ladder. No. 1,352,830; Sept. 14; v. 278; p. 253.
Ohrmundt, Arthur E. (See Uttech, H. C., and Ohrmundt.)
Olevin, Adolph, assignor to Alvin Electrical Products Company, Detroit, Mich. Combination-lock for letter-boxes. No. 1,353,064; Sept. 14; v. 278; p. 299.
Ollivier, Jocelyn-Emile, Haute-Savoie, France. Traction-increasing device. No. 1,352,683; Sept. 14; v. 278; p. 223.
Onsrud, Oscar, Chicago, Ill., assignor to The Marble and Shattuck Chair Company, Cleveland, Ohio. Dovetailing-machine. No. 1,352,620; Sept. 14; v. 278; p. 210.
Ormsby, Donald D., assignor to Brown-Lipe-Chapin Co., Syracuse, N. Y. Compensating gearing. No. 1,352,910; Sept. 14; v. 278; p. 269.
Osborn, Frank, assignor of one-half to G. W. Finnup, Garden City, Kans. Automatic temperature-regulator. No. 1,352,685; Sept. 14; v. 278; p. 224.
Ostendorf, Otto L., Rochester, N. Y. Record-cabinet. No. 1,352,684; Sept. 14; v. 278; p. 224.
Otis Elevator Company. (See Furlow, Floyd C., assignor.)
Paca, William S., Oil City, Pa., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Associated-switchboard telephone system. No. 1,353,065; Sept. 14; v. 278; p. 299.
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Page, Fred M. (See Gregware, Harvey L., assignor.)
Page, Rescue B., Los Angeles, Calif. Folding bed. No. 1,352,525; Sept. 14; v. 278; p. 191.
Palmer, John F., St. Joseph, Mich. Resilient ring or annulus and making same. No. 1,352,470; Sept. 14; v. 278; p. 181.
Panoulias, Panayiotis, New York, N. Y. Coating and stroking or decorating machine. No. 1,352,686; Sept. 14; v. 278; p. 224.
Paque, Edward J., assignor to The Pollak Steel Company, Cincinnati, Ohio. Apparatus for forming forgings. No. 1,352,911; Sept. 14; v. 278; p. 269.
Patchen, Raymond S., Marion, Ind. Spark-plug intensifier. No. 1,352,526; Sept. 14; v. 278; p. 192.
Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Automatic projector. No. 1,352,471; Sept. 14; v. 278; p. 181.
Partridge, Allen R., Cleveland, Ohio. Process and apparatus for reclaiming and refining copper and other metals. No. 1,352,912; Sept. 14; v. 278; p. 270.
Pascoe, Frank S., Cristobal, Canal Zone, Panama. Reversible chair. No. 1,353,066; Sept. 14; v. 278; p. 300.
Pasternak, Joseph. (See Pasternak, Stanley and J.)
Pasternak, Stanley, Chicago, and J. Pasternak, West Harvey, Ill. Curtain-stretcher. No. 1,353,067; Sept. 14; v. 278; p. 300.
Paul, Stephen, Lansing, Mich. Adjustable guide for hammers. No. 1,352,621; Sept. 14; v. 278; p. 211.
Payette, Joseph A., assignor, by mesne assignments, to General Chain Company, Providence, R. I. Machine for making metal fabric. No. 1,352,913; Sept. 14; v. 278; p. 270.
Peirce, Charles L., Jr., Pittsburgh, Pa. Key-holder. No. 1,352,622; Sept. 14; v. 278; p. 211.
Peirson, Charles H., Glenside, and C. H. Butler, assignors to E. F. Houghton & Co., Philadelphia, Pa. Press. No. 1,352,987; Sept. 14; v. 278; p. 284.
Penner, Abram C. (See Clements, William E., assignor.)
Perron, Alexander J., Sparta, Wis. Spark-plug. (Reissue.) No. 14,949; Sept. 14; v. 278; p. 312.
Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Centrifugal machine and disintegrating material. No. 1,352,623; Sept. 14; v. 278; p. 211.
Perry, Ray P., assignor to The Barrett Company, Upper Montclair, N. J. Producing felt. No. 1,352,687; Sept. 14; v. 278; p. 224.
Peteler, Adolph, Freeport, N. Y. Lifting-jack with rotatable cams. No. 1,352,472; Sept. 14; v. 278; p. 181.
Peterson, Niels, St. Anthony, Idaho. Tractor-wheel. No. 1,353,068; Sept. 14; v. 278; p. 300.
Peterson, Victor H., Waverley, Mass. Tool. No. 1,352,688; Sept. 14; v. 278; p. 224.
Phonoharp Company, The. (See Nickerson, Frederick M., assignor.)
Platt, Joseph W., New York, N. Y. Gas-heater. No. 1,352,473; Sept. 14; v. 278; p. 181.
Pierce, Albert F. (See Albers, William C., assignor.)
Pilkington, William G., Buffalo, N. Y. Device for transferring and dispensing liquid. No. 1,353,069; Sept. 14; v. 278; p. 300.
Pinkerton, James W., Lodi, and E. Tomlinson, Stockton, Calif., said Tomlinson, assignor to Pinkerton. Double-suction centrifugal pump. No. 1,352,831; Sept. 14; v. 278; p. 253.
Plant, Henry J., assignor to Defiance Check Writer Corporation. Rochester, N. Y. Check-protector. No. 1,352,689; Sept. 14; v. 278; p. 225.
Plant, Henry J., assignor to Defiance Check Writer Corporation, Rochester, N. Y. Printing-machine. No. 1,352,690; Sept. 14; v. 278; p. 225.
Plant, Henry J., assignor to Defiance Check Writer Corporation, Rochester, N. Y. Check-protector. No. 1,352,691; Sept. 14; v. 278; p. 225.
Plasclascovitie, Sidney, Denver, Colo. Shelf for ladders. No. 1,352,914; Sept. 14; v. 278; p. 270.
Play-O-Lite Company. (See Eberhart, Cleburne, Jr., assignor.)
Plumley, Stuart, Westfield, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Universal metal-cutting apparatus. No. 1,352,760; Sept. 14; v. 278; p. 239.
Polcek, Henry, New York, N. Y. Safety window-lock. No. 1,352,624; Sept. 14; v. 278; p. 211.
Pollak Steel Company, The. (See Paque, Edward J., assignor.)
Popular Reflex Camera Corporation. (See Harris, Varian M., assignor.)
Pospeshil, Joseph B., Detroit, Mich. Auxiliary frame and spring attachment. No. 1,352,625; Sept. 14; v. 278; p. 211.
Pospyhala, Ignatius G., Spring Valley, Ill. Railway-track switch. No. 1,352,988; Sept. 14; v. 278; p. 285.
Posson, Edward, Chicago, Ill. Grain-door for cars. No. 1,352,692; Sept. 14; v. 278; p. 225.
Power, Henry, assignor of one-half to W. Halton, Montreal, Quebec, Canada. Sanding device. No. 1,352,626; Sept. 14; v. 278; p. 211.
Prendergast, Edward, St. Louis, Mo. Road-machine. No. 1,352,989; Sept. 14; v. 278; p. 285.
Pressed Steel Car Company. (See Lockwood, Burns D., assignor.)
Price, Joseph H., Cape Girardeau, Mo. Spark and throttle lever lock. No. 1,353,693; Sept. 14; v. 278; p. 225.
Priest, Charles P., Philadelphia, Pa. Extracting precious metals. No. 1,352,832; Sept. 14; v. 278; p. 254.
Pallander, Charles A. (See Stotzhoff, W. S., and Pallander.)
Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Trolley. No. 1,352,474; Sept. 14; v. 278; p. 182.
Radimak, Steven, Newark, N. J. Brushing-machine. No. 1,352,527; Sept. 14; v. 278; p. 192.
Radimak, Steven, New York, N. Y. Doll-eye-painting machine. No. 1,352,528; Sept. 14; v. 278; p. 192.
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Randall & Fries. (See Fries, Edward A., assignor.)
Randall, James R. (See Townsend, Fred, assignor.)
Ratigan, James P., Los Angeles, Calif. Pumping apparatus. No. 1,352,627; Sept. 14; v. 278; p. 212.
Ray, James S., Duluth, Minn. Time-lock. No. 1,352,694; Sept. 14; v. 278; p. 226.
Rayfield, Charles L., assignor to Findelson & Kropf Manufacturing Company, Chicago, Ill. Carbureter. No. 1,352,628; Sept. 14; v. 278; p. 212.
Reed, Thomas L. (See Edwards, A. R., Turner, and Reed.)
Rees, Llewelyn M., Hamilton, Ontario, Canada. Weather-strip. No. 1,352,695; Sept. 14; v. 278; p. 226.
Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion. No. 1,352,529; Sept. 14; v. 278; p. 192.
Regan, Julia M., Darby, Pa. Garment-supporter. No. 1,353,070; Sept. 14; v. 278; p. 300.
Reinker, Christian, Lakewood, Ohio. Gear-remover or pinion-puller. No. 1,352,990; Sept. 14; v. 278; p. 285.
Reliance Manufacturing Co. (See Bears, Daniel S., assignor.)
Remington, Joseph P., assignor of one-half to Day and Zimmerman, Philadelphia, Pa. Machine for wrapping confections. No. 1,352,629; Sept. 14; v. 278; p. 212.
Richardson Corporation. (See Richardson, D., and Jacoby, assignors.)
Richardson, Durbin, and C. N. Jacoby, assignors to Richardson Corporation, Rochester, N. Y. Portable beverage-dispensing apparatus. No. 1,352,475; Sept. 14; v. 278; p. 182.
Richey, James I., Cincinnati, Ohio. Means for lubricating leaf-springs. No. 1,352,915; Sept. 14; v. 278; p. 270.
Rider, Thomas B., assignor of one-half to A. Danziger, Los Angeles, Calif. X-ray tube. No. 1,352,630; Sept. 14; v. 278; p. 213.
Ripsch, Charles W., and J. C. Dawley, assignors to The Joyce-Cridland Company, Dayton, Ohio. Ratchet mechanism. No. 1,352,631; Sept. 14; v. 278; p. 213.
Rittman, Walter F., Pittsburgh, Pa. Apparatus for treatment of hydrocarbons. No. 1,352,916; Sept. 14; v. 278; p. 270.
Rittman, Walter F., Pittsburgh, Pa. Apparatus for treatment of hydrocarbons. No. 1,352,917; Sept. 14; v. 278; p. 270.

Rizzuto, James, assignor of one-third to Consumers Biscuit Company, New Orleans, La. Glass-retaining device for containers. No. 1,352,531; Sept. 14; v. 278; p. 192.
Roach, Jesse E. (See Moore, Wade W., assignor.)
Roberts, Arthur, Evanston, assignor to American Coke and Chemical Company, Chicago, Ill. Coking coal. No. 1,352,696; Sept. 14; v. 278; p. 226.
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Robertson, Samuel M., and F. C. Dyer, Toronto, Ontario, Canada. Wrench. No. 1,352,729; Sept. 14; v. 278; p. 233.
Robinson, Charles W., Battle Creek, Mich. Collapsible berry-box. No. 1,352,833; Sept. 14; v. 278; p. 234.
Robison, Floyd W. (See Holley, C. M., and Robison.)
Rockford Milling Machine Company. (See Sundstrand, Gustaf D., assignor.)
Rohbock, William L., Cleveland, Ohio. Fastening device. No. 1,352,918; Sept. 14; v. 278; p. 271.
Rosenberg, Isadore, Port Chester, N. Y. Combination valve-grinder and breast-drill. No. 1,352,476; Sept. 14; v. 278; p. 182.
Ross, Clyde P., Kenilworth, assignor to Roberts & Schaefer Company, Chicago, Ill. Automatic traction-hoist. No. 1,352,632; Sept. 14; v. 278; p. 213.
Ross, Henry R., St. John, New Brunswick, Canada. Refrigerator-car. No. 1,352,532; Sept. 14; v. 278; p. 193.
Ross, Henry R., St. John, New Brunswick, Canada. Traveling refrigerating plant. No. 1,352,533; Sept. 14; v. 278; p. 193.
Roure, Augusto, Buenos Aires, Argentina. Dismountable house. No. 1,352,991; Sept. 14; v. 278; p. 285.
Rowland, John, Republic, Wash. Combination baby carriage and sleigh. No. 1,353,071; Sept. 14; v. 278; p. 300.
Ruff, William J., Quincy, Ill. Parachute. No. 1,353,130; Sept. 14; v. 278; p. 311.
Ruff, William J., Quincy, Ill. Parachute. No. 1,353,131; Sept. 14; v. 278; p. 311.
Ruggles, William G., San Francisco, Calif. Observation-station. No. 1,352,992; Sept. 14; v. 278; p. 285.
Ruhoff, Otto E., assignor to French Battery & Carbon Company, Madison, Wis. Oil-protected electric battery and producing same. No. 1,352,634; Sept. 14; v. 278; p. 254.
Runne, Henry G., assignor of one-half to C. L. Townsend, Rochester, N. Y. Toy. No. 1,352,836; Sept. 14; v. 278; p. 254.
Runne, Henry G., assignor, by mesne assignments, of one-half to C. L. Townsend, Rochester, N. Y. Toy vehicle. No. 1,352,835; Sept. 14; v. 278; p. 254.
Runyan, Clarence, Aurora, Ind. Retailer. No. 1,353,072; Sept. 14; v. 278; p. 301.
Russell, Richard F., Jersey City, N. J., assignor to Air Reduction Company, Inc. Welding-rod. No. 1,352,534; Sept. 14; v. 278; p. 193.
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Ryan, Thomas F. (See Thompson, John T., assignor.)
Ryan, Wilbur J., *et al.* (See Zwicker, Frederick P., assignor.)
Ryder, Gilbert E., Leonia, N. J. Making return-bends and related structures. No. 1,352,535; Sept. 14; v. 278; p. 193.
Ryder, Linus I. and M. Z., Briarcliff Manor, N. Y. Dirigible light. No. 1,352,993; Sept. 14; v. 278; p. 286.
Ryder, Mary Z. (See Ryder, Linus I. and M. Z.)
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,352,536; Sept. 14; v. 278; p. 193.
Sackett, Hart, Grand Rapids, Mich. Humidifier. No. 1,352,477; Sept. 14; v. 278; p. 182.
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Salmons, Claude C., and J. Mahoney, West Philadelphia, Pa. Combined clamp and fastener. No. 1,352,919; Sept. 14; v. 278; p. 271.
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Sanguinet, George A., St. Louis, Mo. Wringer-mop. No. 1,352,837; Sept. 14; v. 278; p. 255.
Santilli, Stefano, Canton, Ohio. Fruit-crusher. No. 1,352,537; Sept. 14; v. 278; p. 194.
Sardo, Jacob, Johnstown, Pa. Clothesline-reel. No. 1,352,994; Sept. 14; v. 278; p. 286.
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Sattler, John H., San Francisco, Calif. Combined coal and gas stove. No. 1,352,539; Sept. 14; v. 278; p. 194.
Satterfield, Rosa P., San Antonio, Tex. Sun-hat. No. 1,352,838; Sept. 14; v. 278; p. 255.
Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Spring-shackle. No. 1,352,633; Sept. 14; v. 278; p. 213.
Schachter, Nathan, Chicago, Ill. Shock-absorber spring and blank therefor. No. 1,352,540; Sept. 14; v. 278; p. 194.
Scheich, Conrad. (See Anderson, Nils O., and Scheich.)
Scherbius, Arthur, Berlin, Germany. Direct-current machine. No. 1,352,920; Sept. 14; v. 278; p. 271.
Schilla, Adolph W., Duluth, Minn. Galley-gage. No. 1,352,478; Sept. 14; v. 278; p. 182.
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Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Fuse for aviation-bombs. No. 1,352,542; Sept. 14; v. 278; p. 195.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Percussion-fuse for projectiles. No. 1,352,543; Sept. 14; v. 278; p. 195.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Percussion-fuse for projectiles. No. 1,352,544; Sept. 14; v. 278; p. 195.
Schnekenburger, William, Detroit, Mich. Weather strip. No. 1,352,545; Sept. 14; v. 278; p. 196.
Schoepf, Theodore H., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,352,480; Sept. 14; v. 278; p. 183.
Schön, Ludwig, assignor to Fried Krupp Aktiengelschaft, Essen-on-the-Ruhr, Germany. Arrangement for automatically regulating the voltage of dynamos. No. 1,352,839; Sept. 14; v. 278; p. 255.
Schultze, August J., Galveston, Tex. Universal lock and latch. No. 1,352,762; Sept. 14; v. 278; p. 239.
Schweinert, Maximilian C., West Hoboken, N. J. Gage for gas-engines or the like. No. 1,352,697; Sept. 14; v. 278; p. 226.
Schweinert, Maximilian C., West Hoboken, N. J. Pressuregage. No. 1,352,698; Sept. 14; v. 278; p. 227.
Schwerin, Botho, assignor, by mesne assignments, to The Chemical Foundation, Inc., Frankfort-on-the-Main, Germany. Diaphragm for electrochemical and electro-osmotic purposes. No. 1,352,763; Sept. 14; v. 278; p. 240.
Seattle-Astoria Iron Works. (See Troyer, Nelson, assignor.)
Seelau, Franz, Berlin-Wilmersdorf, assignor of one-half to A. M. Newman, Berlin-Wannsee, Germany. Arrangement for phonographically recording and reproducing telephonic messages. No. 1,352,546; Sept. 14; v. 278; p. 196.
Seimbille, Louis E., Paris, France, assignor to Les Successeurs d'Albert Godde, Bedin & Cie., Paris, France. Electrical heating apparatus. No. 1,352,547; Sept. 14; v. 278; p. 196.
Selden Company, The. (See Selden, James M., assignor.)
Selden, James M., assignor to The Selden Company, Pittsburgh, Pa. Heater. No. 1,352,481; Sept. 14; v. 278; p. 183.
Severén, Thaddeus, Bridgeport, Conn. Ratchet-wrench. No. 1,352,764; Sept. 14; v. 278; p. 240.
Sévigné, Henri, Winthrop, Mass. Lock-nut. No. 1,352,765; Sept. 14; v. 278; p. 240.
Sgritta, Alfonso, Brooklyn, N. Y. Pulley. No. 1,353,074; Sept. 14; v. 278; p. 301.
Shants, Ralph A., assignor of one-third to O. A. Steelhammer, Salem, and one-third to J. F. Steelhammer, Woodburn, Oreg. Valve-grinder. No. 1,352,840; Sept. 14; v. 278; p. 255.
Shelton, James, Knoxville, Tenn. Valve-stem stuffing-box. No. 1,352,548; Sept. 14; v. 278; p. 196.
Sheperdson, John W., assignor to Morgan Construction Company, Worcester, Mass. Conveying mechanism. No. 1,352,766; Sept. 14; v. 278; p. 240.
Sherwin, Frank, Brookings, S. D. Seed-drill. No. 1,352,482; Sept. 14; v. 278; p. 183.
Shiffer, Warren L., and P. K. Shnyder, Williamsport, Pa. Pivoted link. No. 1,353,134; Sept. 14; v. 278; p. 312.
Shipman, Bennet C., San Francisco, Calif. Pipe-joining device. No. 1,352,767; Sept. 14; v. 278; p. 241.
Shnyder, Peter K. (See Shiffer, W. L., and Shnyder.)
Sibley, Roy L., Garden, Calif. Fruit-grader. No. 1,353,075; Sept. 14; v. 278; p. 301.
Silver, Herbert A., Cincinnati, Ohio. Amusement device. No. 1,352,841; Sept. 14; v. 278; p. 255.
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Simmons Company. (See Gail, John F., assignor.)
Sinclair, Charles G., Jr., Towaco, N. J., assignor to American Telephone & Telegraph Company. Cable-hanger. No. 1,352,549; Sept. 14; v. 278; p. 197.
Singleton, Clifton E., Brooklyn, N. Y. Tire-tool. No. 1,352,550; Sept. 14; v. 278; p. 197.
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Sir W. G. Armstrong Whitworth and Company. (See Chicken, C. B., and Thain, assignors.)
Sleeper & Hartley. (See Sleeper, F. H., and Blount, assignors.)
Sleeper, F. H., and W. H. Blount, assignors to Sleeper & Hartley, Inc., Worcester, Mass. Coil feeding and cutting mechanism. No. 1,352,842; Sept. 14; v. 278; p. 256.
Small, John W., Burlington, N. C. Threading attachment for shuttles of looms. No. 1,353,076; Sept. 14; v. 278; p. 301.
Smith, Arthur A., Portland, Me. Automobile-tire remover. No. 1,353,078; Sept. 14; v. 278; p. 302.
Smith, Arthur A., Portland, Me. Machine for cutting doughnuts, cakes, &c. No. 1,353,077; Sept. 14; v. 278; p. 302.
Smith, Ernest L., Sabula, Iowa. Hairpin. No. 1,353,079; Sept. 14; v. 278; p. 302.
Smith, Frank C., Minneapolis, Minn. Ventilator attachment. No. 1,352,843; Sept. 14; v. 278; p. 256.
Smith, Franklin S., Philadelphia, Pa. Destroying insect life. No. 1,352,699; Sept. 14; v. 278; p. 227.
Smith, George F., Buffalo, N. Y. Flush-valve for water-closets. No. 1,352,551; Sept. 14; v. 278; p. 197.

Smith, Harry K., Hamilton, Md. Bail-car fastening for cans. No. 1,353,080; Sept. 14; v. 278; p. 302.
Smith, Herbert M., assignor to Landers, Frary & Clark, New Britain, Conn. Vacuum-bottle. No. 1,352,844; Sept. 14; v. 278; p. 256.
Smith, Louis R., Lomita, Calif. Finishing and burnishing pliers. No. 1,352,552; Sept. 14; v. 278; p. 197.
Smith, Walter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,352,483; Sept. 14; v. 278; p. 183.
Smith, William H., Washington, D. C. Separating waxlike material from paper-stock. No. 1,352,553; Sept. 14; v. 278; p. 197.
Snyder, Emmanuell H., Davenport, Iowa. Lifting device for planters. No. 1,352,634; Sept. 14; v. 278; p. 213.
Snyder, Walter, Philadelphia, Pa. Manufacture of metal forms. No. 1,352,845; Sept. 14; v. 278; p. 256.
Snyder, Ward H., Congress Park, Ill. Spark-plug. No. 1,352,554; Sept. 14; v. 278; p. 198.
Société Anonyme pour l'Eclairage Electrique des Vehicules. (See Dutreux, Auguste, assignor.)
Società Esercizio Bacini, Industrials. (See Cogliolo, Tomaso S., assignor.)
Sommers, Dell D., Champion, Alberta, Canada. Farm implement. No. 1,352,555; Sept. 14; v. 278; p. 198.
Sonora Phonograph Company. (See Herzog, John, assignor.)
Sorg, Michael, Indianapolis, Ind. Sash-cord device. No. 1,352,846; Sept. 14; v. 278; p. 256.
Soudy, Antoine, Lyon, France. Lubricating-cup. No. 1,352,847; Sept. 14; v. 278; p. 257.
Soule, Clarence A., Canandaigua, N. Y. Garment-hanger. No. 1,352,556; Sept. 14; v. 278; p. 198.
Southern Pine Products Co. (See Fairley, Taliaferro J., assignor.)
Southwell, John A., Scranton, Pa. Spade or shovel. No. 1,352,921; Sept. 14; v. 278; p. 271.
Spang, Chalfant & Co. (See Marks, Willard C., assignor.)
Sparks, Jacob B. (See Lougheed, Wellington, assignor.)
Sprague, Leo A., Henderson, N. Y. Propulsion mechanism. No. 1,352,922; Sept. 14; v. 278; p. 271.
Stack, William F., Bay St. Louis, Miss. Method of and means for feeding lubricants to steam-engines. No. 1,353,081; Sept. 14; v. 278; p. 302.
Standard Accessory Corporation. (See Bernecker, George E., assignor.)
Standard Parts Company, The. (See Fay, Thomas J., assignor.)
Standex Manufacturing Corporation. (See Hansen, Viggo N., assignor.)
Stanley Works, The. (See Waters, Archibald D., assignor.)
Stansbie, Jess, Cambridge, Nebr. Halter. No. 1,352,557; Sept. 14; v. 278; p. 198.
Stanton, William H., Ridley Park, Pa. Producing silicate of soda and the like. No. 1,352,700; Sept. 14; v. 278; p. 227.
Stanyo, Desider, Milwaukee, Wis. Fan-wheel. No. 1,352,848; Sept. 14; v. 278; p. 257.
Staude, E. G., Manufacturing Co., The. (See Boker, Vitus A., assignor.)
Steelhammer, John F. (See Shantz, Ralph A., assignor.)
Steelhammer, Oscar A., *et al.* (See Shantz, Ralph A., assignor.)
Stehle, Frank K., and C. A. Keffer, Philadelphia, Pa. Piston-ring. No. 1,353,082; Sept. 14; v. 278; p. 302.
Steinbach, Max, New York, N. Y. Wire-tightening implement. No. 1,352,484; Sept. 14; v. 278; p. 184.
Stephens-Adamson Manufacturing Co. (See Kendall, Myron A., assignor.)
Stephens, William B., Sunset, Tex. Wire-stretcher. No. 1,353,083; Sept. 14; v. 278; p. 306.
Stevens, Robert W., New Haven, Conn. Shower-pipe for paper-making machines. No. 1,352,485; Sept. 14; v. 278; p. 184.
Stifel, Herman, *et al.* (See Hachmann, Frederick, assignor.)
Stirling Machine and Wire Works, Beneficial Trust Association. (See McPhail, Archibald, assignor.)
St. John, George E., and C. Bowman, Hammond, Ind. Split pulley. No. 1,352,761; Sept. 14; v. 278; p. 239.
Stone, Charles M., assignor to Crompton & Knowles Loom Works, Lewiston, Me. Warp stop-motion. No. 1,352,558; Sept. 14; v. 278; p. 199.
Stone, Nathan M., Chicago, Ill. Dental lamp. No. 1,352,995; Sept. 14; v. 278; p. 286.
Stothoff, William S., and C. A. Pallander, assignors to William Wharton, Jr., & Co., Incorporated, Easton, Pa. Tractor-wheel. No. 1,352,635; Sept. 14; v. 278; p. 214.
Stramaglia, Nicola, Chicago, Ill. Automatic train-stop. No. 1,353,084; Sept. 14; v. 278; p. 303.
Streich, William F., Detroit, Mich. Drawer-stabilizer. No. 1,352,924; Sept. 14; v. 278; p. 272.
Stretton, Theodore, Cardiff, Wales, and J. W. Jones, Cannock, England, assignors to Hastam & Stretton Limited, Cardiff, Wales. Miner's electric lamp. No. 1,352,636; Sept. 14; v. 278; p. 214.
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Stromberg Motor Devices Company. (See Maegly, George B., assignor.)
Sturtze, John G., Lowville, N. Y. Adjustable platform for hay-loaders. No. 1,352,996; Sept. 14; v. 278; p. 286.
Sumner, Henry W., Seattle, Wash. Fuel-feeding device for oil-engines. No. 1,352,637; Sept. 14; v. 278; p. 214.
Summers, Mark L., Hammonton, Calif., assignor to Taylor-Wharton Iron and Steel Company, Highbridge, N. J. Dredge-tumbler. No. 1,352,997; Sept. 14; v. 278; p. 286.
Sundstrand, Gustaf D., assignor to Rockford Milling Machine Company, Rockford, Ill. Milling-machine. No. 1,352,849; Sept. 14; v. 278; p. 257.
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Swedlund, Erick J., Williston, N. D. Separable cuff-button. No. 1,353,085; Sept. 14; v. 278; p. 303.
Sweetser, Emery B., Brooklyn, N. Y. Saltcellar. No. 1,352,701; Sept. 14; v. 278; p. 227.
Swift, George W., Jr., Bordentown, N. J. Creasing and slotting machine. No. 1,353,086; Sept. 14; v. 278; p. 303.
Swift, George W., Jr., Bordentown, N. J. Feed mechanism. No. 1,353,088; Sept. 14; v. 278; p. 303.
Swift, George W., Jr., Bordentown, N. J. Feed mechanism for slotting and creasing machines. No. 1,353,087; Sept. 14; v. 278; p. 303.
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Tainter, Charles R. (See Lenhoit, John E., assignor.)
Tambach, Rudolf, assignor, by mesne assignments, to The Chemical Foundation, Inc., Ludwigshafen-on-the-Rhine, Germany. Producing tannate-lime compound difficultly soluble in dilute acid. No. 1,352,768; Sept. 14; v. 278; p. 241.
Taylor, Augustus. (See Elliott, Harold F., assignor.)
Taylor-Wharton Iron and Steel Company. (See Crook, A., and Chapman, assignors.)
Taylor-Wharton Iron and Steel Company. (See Mayer, Waldermar F., assignor.)
Taylor-Wharton Iron and Steel Company. (See Summers, Mark L., assignor.)
Teel, Lawrence H., Salem, Mass. Tire-holder for automobiles. No. 1,352,559; Sept. 14; v. 278; p. 199.
Teeples, Clarence. (See Wright, W. M., Teeples, and Lamb.)
Teich, August W., Lansing, Ill. Resilient wheel. No. 1,352,769; Sept. 14; v. 278; p. 241.
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Thiel, Louis, assignor to The Cincinnati Lathe & Tool Company, Cincinnati, Ohio. Lathe-gearing. No. 1,352,923; Sept. 14; v. 278; p. 272.
Thiel, Otto, Landstuhl, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Treating molten metal. No. 1,353,126; Sept. 14; v. 278; p. 310.
Thomas, Horace T., Lansing, Mich. Cooling system for automobile-engines. No. 1,352,560; Sept. 14; v. 278; p. 199.
Thomas, Wilfred V., Catskill, N. Y. Self-oiling governor. No. 1,352,850; Sept. 14; v. 278; p. 257.
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Thompson, Charles E., assignor of one-half to T. J. Hill, New York, N. Y. Wheel-lock. No. 1,353,117; Sept. 14; v. 278; p. 309.
Thompson, Eddie G., Devils Lake, N. D. Valve-grinding tool. No. 1,352,638; Sept. 14; v. 278; p. 214.
Thompson, Emory A., Hope, Ark. Vehicle-wheel. No. 1,352,639; Sept. 14; v. 278; p. 214.
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Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Cartridge. No. 1,353,118; Sept. 14; v. 278; p. 309.
Thompson, John T., Newport, Ky., and H. H. Cummings, Newton, Mass.; said Cummings assignor, by mesne assignments, of one-half to T. F. Ryan, New York, N. Y. Cartridge-magazine. No. 1,353,092; Sept. 14; v. 278; p. 304.
Thompson, Mat R., Chicago, Ill. Disk flange attachment to autos and trailers. No. 1,352,561; Sept. 14; v. 278; p. 199.
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Thropp, Joseph W., Trenton, N. J. Means for adjusting rolls. No. 1,352,999; Sept. 14; v. 278; p. 287.
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Thurston, Ernest B., assignor to The Haughton Elevator and Machine Company, Toledo, Ohio. Electric switch. No. 1,352,927; Sept. 14; v. 278; p. 272.
Thurston, Ernest B., assignor to The Haughton Elevator & Machine Co., Toledo, Ohio. Progressive manufacture conveyers. No. 1,352,928; Sept. 14; v. 278; p. 272.
Tiencken, Wiley E., Mount Pleasant, S. C. Safety-pin. No. 1,353,093; Sept. 14; v. 278; p. 304.
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Tokash, Julia, McDowell, W. Va. Flytrap. No. 1,352,562; Sept. 14; v. 278; p. 199.
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Townsend, Charles L. (See Runne, Henry G., assignor.)
Townsend, Fred, assignor of one-half to J. R. Randall, Chicago, Ill. Peanut-blanching machine. No. 1,352,702; Sept. 14; v. 278; p. 227.
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Tripp, Charles A., Wilmington, Del., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Drain-pipe for liquid-dispensers. No. 1,352,640; Sept. 14; v. 278; p. 215.
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Trosien, Charles G., Pontiac, Mich. Gear-lock for automobiles. No. 1,353,120; Sept. 14; v. 278; p. 309.
Troyer, Nelson, assignor of one-half to Seattle-Astoria Iron Works, Seattle, Wash. Machine for applying compound to can-tops. No. 1,352,641; Sept. 14; v. 278; p. 215.
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Tulek, William B., New York, N. Y. Fixture for use in cutter-grinding and similar operations. No. 1,352,703; Sept. 14; v. 278; p. 227.
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United Shoe Machinery Corporation. (See Hill, George S., assignor.)
United Shoe Machinery Corporation. (See Krippendorf, P. F. W. C., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Window Glass Company. (See De Vaughn, Harry E., assignor.)
United States Novelty Mfg. Co. (See Lavigne, Joseph R., assignor.)
United Steel and Wire Co. (See Genebach, George J., assignor.)
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Vickers Limited. (See Ella, Grovanni E., assignor.)
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Vincent, Harry S., Ridgewood, N. J. Throttle-valve. No. 1,352,772; Sept. 14; v. 278; p. 241.
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Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,352,487; Sept. 14; v. 278; p. 184.
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Von Schlegell, Frederick, Evanston, Ill. Electric-arc furnace. No. 1,352,541; Sept. 14; v. 278; p. 194.
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Wales, Nathaniel B., assignor to Wales Motors Corporation, Detroit, Mich. Air-compression power plant. No. 1,353,100; Sept. 14; v. 278; p. 306.
Wales, Nathaniel B., New York, N. Y., assignor, by mesne assignments, to The Wales Motors Corporation. Power plant for automobiles. No. 1,353,099; Sept. 14; v. 278; p. 306.
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Westinghouse Electric & Manufacturing Company. (See Pukerud, Thomas S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Schoepf, Theodore H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Walter H., assignor.)

Westinghouse Union Battery Company. (See Norris, Paul E., assignor.)
Wetsler, Anna E., Portland, Oreg. Pickling-weight. No. 1,353,104; Sept. 14; v. 278; p. 307.
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Wharton, William, Jr., & Co., Incorporated. (See Stothoff, W. S., and Pallander, assignors.)
Wheeler, Wellington Brazil, El Segundo, Calif. Advertising device. No. 1,353,105; Sept. 14; v. 278; p. 307.
White, Charles, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,352,568; Sept. 14; v. 278; p. 201.
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White, Joseph J., Jr., Erie, Pa., assignor of one-half to H. G. Green, Columbus, Ohio. Bituminous pitch and sulfur composition and making same. No. 1,353,003; Sept. 14; v. 278; p. 287.
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White, William E., Minneapolis, Minn. Spacing-clip. No. 1,352,642; Sept. 14; v. 278; p. 215.
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Wicoff, Henry A., Decatur, Ill. Safety device for spring-motors. No. 1,353,106; Sept. 14; v. 278; p. 307.
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Wiggin, Joseph N., East Orange, assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J. Fabric and making same. No. 1,352,560; Sept. 14; v. 278; p. 201.
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Wilhelm, Joseph, and C. A. Kays, McKees Rocks, Pa. Film-reel. No. 1,353,004; Sept. 14; v. 278; p. 287.
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Willett, Leonard, Paducah, Ky. Runner attachment for harrows. No. 1,353,007; Sept. 14; v. 278; p. 288.
Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable third or fourth point support for brake-beams. No. 1,352,570; Sept. 14; v. 278; p. 201.
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Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,352,492; Sept. 14; v. 278; p. 185.
Winters, Robert E., Coraopolis, assignor of one-half to A. E. Dean, Pittsburgh, Pa. Speed-change mechanism. No. 1,352,716; Sept. 14; v. 278; p. 230.
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Wood, William F., assignor to Jenckes Spinning Company, Pawtucket, R. I. Winding-machine. No. 1,352,930; Sept. 14; v. 278; p. 273.
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Pearson, Carl J. and S. L. M., Chicago, Ill. Phonograph-casing. No. 56,305; Sept. 14; v. 278; p. 320.
Pearson, Sigrid L. M. (See Pearson, Carl J. and S. L. M.)
Phillips, Erwin B., Stratford, Conn. Box. No. 56,306; Sept. 14; v. 278; p. 320.
Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic tire. No. 56,307; Sept. 14; v. 278; p. 320.
Porter, Adelaide M., Greenwich, assignor to Huyler's Inc., New York, N. Y. Confectionery bouquet. No. 56,308; Sept. 14; v. 278; p. 321.
Rees, Frank W., assignor to Sees-All Manufacturing Company, Seattle, Wash. Rear-sight mirror for motor-vehicles. No. 56,309; Sept. 14; v. 278; p. 321.
Saxton, A. H., and J. J. Bachmayer, assignors to National Bundle Tyer Company, Bliss field, Mich. Bundle-tier-machine frame. No. 56,310; Sept. 14; v. 278; p. 321.
Sees-All Manufacturing Company. (See Rees, Frank W., assignor.)
Sonora, Inc. (See Wolff, Joseph.)
Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
Strongson, Herman L., Brooklyn, N. Y., assignor to Loeb-Strongson Corp., New York, N. Y. Pouring-spout for cans. No. 56,311; Sept. 14; v. 278; p. 321.
Thomson, Ralph K., Sioux Falls, S. D. Automobile side curtain. Nos. 56,312–13; Sept. 14; v. 278; p. 321.
Tin Decorating Company, The. (See Connor, Martha H., assignor.)
Ver-Vac Company, The. (See Nickolson, Harry R., assignor.)
Viggiano, Peter, Shinnston, W. Va. Jewelry-holder. No. 56,314; Sept. 14; v. 278; p. 322.
Walker Brothers Company. (See Walker, Willard R., assignor.)
Walker, Willard R., assignor to Walker Brothers Company, Syracuse, N. Y. Culinary fixture. No. 56,315; Sept. 14; v. 278; p. 322.
Wolff, Joseph, assignor to Sonora Phonograph Corporation, Brooklyn, N. Y. Tone-arm for talking-machines. No. 56,316; Sept. 14; v. 278; p. 322.
Wolff, Joseph, assignor to Sonora, Inc., Brooklyn, N. Y. Phonograph-cabinet. Nos. 56,317–29; Sept. 14; v. 278; p. 322.
Wright, Joseph F., Cincinnati, Ohio. Handbag or similar article. No. 56,261; Sept. 14; v. 278; p. 313.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. O. Chemical Co., Ocilla, Ga. Insecticide. No. 134,611; Sept. 14; v. 278; p. 354.
All-American Truck Company, Chicago, Ill. Motor-trucks. No. 134,564; Sept. 14; v. 278; p. 353.
Allen, Rena, Daytona, Fla. Medicine for ground-itch on children and sorehead on chickens. No. 134,563; Sept. 14; v. 278; p. 353.
Altman, B. & Co., New York, N. Y. Soap. No. 134,565; Sept. 14; v. 278; p. 353.
American Ink Company, Seattle, Wash. Writing-inks. No. 134,566; Sept. 14; v. 278; p. 353.
American La France Fire Engine Co., Inc., Elmira, N. Y. Respirators, respirator masks and hoods, emergency-hoods, &c. No. 134,567; Sept. 14; v. 278; p. 353.
American-Swiss Watch Co., Inc., Peekskill, N. Y. Watches, watch movements, watchcases, and parts thereof. No. 134,568; Sept. 14; v. 278; p. 353.
Ames-Bonner Company, The, Toledo, Ohio. Hand, wall, and stand mirrors. No. 134,569; Sept. 14; v. 278; p. 353.
Andersen-Meyer & Company, Ltd., New York, N. Y. Bristles and human hair. No. 134,570; Sept. 14; v. 278; p. 353.
Anglo-American Pharmaceutical Corporation, New York, N. Y. Antiseptic powder. No. 134,856; Sept. 14; v. 278; p. 363.
Ansbacher, A. B., & Company, New York, N. Y. Dry paints, water paste paints, and paint and varish pigments. No. 134,571-2; Sept. 14; v. 278; p. 353.
Apollo Magneto Corporation, Dover, Del., and Brooklyn, N. Y. Ignition-magnetos and parts thereof and electrical condensers. No. 134,573; Sept. 14; v. 278; p. 353.
Armleder, O., & Co., The, Cincinnati, Ohio. Automobile-trucks, wagons, carts, drays, and vehicles. No. 134,574; Sept. 14; v. 278; p. 353.
Armour & Company, Chicago, Ill. Musical-instrument strings. Nos. 134,575–8; Sept. 14; v. 278; p. 353.
Arrow Brand Hemstitching & Tucking Co., The, New York, N. Y. Ladies' and misses' waists for outer wear. No. 134,579; Sept. 14; v. 278; p. 353.
Atlantic Remedies Co., The, New York, N. Y. Medicines for stomach, bowel, liver, &c., and for the blood. No. 134,580; Sept. 14; v. 278; p. 353.
Aubrey-Becker Sales Company, San Francisco, Calif. Cough candy, drops, and lozenges. No. 134,581; Sept. 14; v. 278; p. 353.
Bacharach, S., and Company, Philadelphia, Pa. Men's and young men's suits and overcoats. No. 134,582; Sept. 14; v. 278; p. 353.
Bake-Rite Oven Mfg. Company, Reno, Nev., and San Francisco, Calif. Sales-counters, display-racks, kitchen-cabinets, chairs, stools &c. No. 134,583; Sept. 14; v. 278; p. 353.
Baldwin Company, The, Cincinnati, Ohio. Pianos, player-pianos, and piano-players. No. 134,584; Sept. 14; v. 278; p. 353.
Barton, Ernest L., Chester, S. C. Dress-shirts, negligée shirts and soft collars. No. 134,585; Sept. 14; v. 278; p. 353.
Bates, A. J., & Company, New York, N. Y. Leather. No. 134,586; Sept. 14; v. 278; p. 356.
Baugatz, Frédéric G., Paris, France. Corsets and belts worn as substitutes for corsets. No. 134,587; Sept. 14; v. 278; p. 353.
Bausher, Solon D., Reading, Pa. Knit underwear. No. 134,588; Sept. 14; v. 278; p. 353.
Bay, H. C., Company, Chicago, Ill., and Bluffton, Ind. Pianos and piano-players. Nos. 134,589–91; Sept. 14; v. 278; pp. 353–4.
Bencon Phonograph Company, Boston, Mass. Phonographs, records and needles. No. 134,592; Sept. 14; v. 278; p. 354.
Beaver Refining Company, Pittsburgh, Pa. Gasolene, benzin, naphtha, fuel-oil, &c. No. 134,593; v. 278; p. 354.
"Bestov" Manufacturing Co., Seattle, Wash. Electrical goods. No. 134,594; Sept. 14; v. 278; p. 354.
Betz Bros., Inc., New York, N. Y. Toilet stalls and doors and shower-bath partitions. No. 134,857; Sept. 14; v. 278; p. 363.
Bifiex Products Company, Waukegan, Ill. Automobile-bumpers and attaching-brackets. No. 134,595; Sept. 14; v. 278; p. 354.
Blazer, Henry C., Kansas City, Mo. Leather, fabric, and combination shoes. No. 134,643; Sept. 14; v. 278; p. 355.
Block, Louis A., New Orleans, La. Polishing and cleaning liquid. No. 134,596; Sept. 14; v. 278; p. 354.
Block, Monroe, & Co., Providence, R. I. Pearls. No. 134,597; Sept. 14; v. 278; p. 354.
Bloom, William, & Co., Inc., New York, N. Y. Clothing. No. 134,598; Sept. 14; v. 278; p. 354.
Borgfeldt, George, & Co., New York, N. Y. Toy building-blocks. No. 134,599; Sept. 14; v. 278; p. 354.
Borgfeldt, George, & Co., New York, N. Y. Kimonos. No. 134,600; Sept. 14; v. 278; p. 354.
Brandes, Diedrich H., New York, N. Y. Paints and varnishes. No. 134,601; Sept. 14; v. 278; p. 354.

Briggs, Andrew G., Richmond, Va. Waxy preparation for polishing automobiles, furniture, and stained and hardwood floors. No. 134,602; Sept. 14; v 278; p. 354.
British-American Tobacco Company Limited, London, England. Cigarettes. No. 134,603; Sept. 14; v. 278; p. 354.
Brooklyn Shield & Rubber Company, Brooklyn, N. Y. Aprons. No. 134,604; Sept. 14; v. 278; p. 354.
Burgess Battery Company, Madison, Wis. Electric batteries. No. 134,605; Sept. 14; v. 278; p. 354.
California Soda Products Co., San Francisco, Calif. Preparation used for softening water. No. 134,606; Sept. 14; v. 278; p. 354.
Catholic News Publishing Company, The, New York, N. Y. Weekly newspaper. No. 134,607; Sept. 14; v. 278; p. 354.
Central Glass Works, Wheeling, W. Va. Glassware. No. 134,608; Sept. 14; v. 278; p. 354.
Chapa, A. C., San Antonio, Tex. Salve and a liniment. No. 134,609; Sept. 14; v. 278; p. 354.
Charleston Oil Company, Charleston, S. C. Lubricating-oil. No. 134,610; Sept. 14; v. 278; p. 354.
Chicago Hardware Foundry Company, North Chicago, Ill. Lunch-room equipments, Industrial. No. 134,612; Sept. 14; v. 278; p. 354.
Christoforides, John, London, England. Smoking and Chewing tobacco, cigars, and cigarettes. No. 134,613; Sept. 14; v. 278; p. 354.
Cleveland Dental Manufacturing Company, The, Cleveland, Ohio. Dental pliers, forceps, and rongeurs. No. 134,614; Sept. 14; v. 278; p. 354.
Clode, E. J., New York, N. Y. Printed books published in series. No. 134,615; Sept. 14; v. 278; p. 354.
Closgard Wardrobe Company, Washington, D. C. Folding wardrobes. No. 134,616; Sept. 14; v. 278; p. 354.
Cohn, Goldwater Company, Los Angeles, Calif. Men's and boys' athletic underwear. No. 134,617; Sept. 171; v. 278; p. 354.
Columbia Graphophone Company, New York, N. Y. Monthly-magazine publications. No. 134,618; Sept. 14; v. 278; p. 354.
Conn, C. G., Ltd., Elkhart, Ind. Wind musical instruments of the bugle and trumpet type. No. 134,619; Sept. 14; v. 278; p. 354.
Cope-Walton Co. Inc., The, New York, N. Y. Hand-soap. No. 134,620; Sept. 14; v. 278; p. 354.
Crawford McGregor & Canby Company, The, Dayton, Ohio. Shoe-lasts. No. 134,621; Sept. 14; v. 278; p. 354.
Dallas Saturday Night Company, The, Dallas, Tex. Newspapers. No. 134,622; Sept. 14; v. 278; p. 354.
Deco Co., The, New York, N. Y. Leather goods. No. 134,623; Sept. 14; v. 278; p. 354.
Deco Co., The, New York, N. Y. Jewelry. No. 134,624; Sept. 14; v. 278; p. 354.
De Nobili Cigar Co., Inc., Long Island City and New York, N. Y. Cigars. No. 134,625; Sept. 14; v. 278; p. 355.
De Nordiske Fabriker, De-No-Fa, Aktieselskap, Christiania, Norway. Refined and unrefined fats used in the manufacture of ointment. No. 134,626; Sept. 14; v. 278; p. 355.
Dentocide Chemical Co., The, Baltimore, Md. Tooth-paste. No. 134,627; Sept. 14; v. 278; p. 355.
De Palma, Frank, Brooklyn, N. Y. Shaving-cream. No. 134,628; Sept. 14; v. 278; p. 355.
Dibble, Louis G., Shortsville, N. Y. Bassinettes. No. 134,629; Sept. 14; v. 278; p. 355.
Dick, W. B., & Company, Inc., New York, N. Y. Lubricating oils and greases. No. 134,630; Sept. 14; v. 278; p. 355.
Dillow, Guy G., St. Louis, Mo. Laxative tablets. No. 134,631; Sept. 14; v. 278; p. 355.
Donnelly, W. J., Company, The, Detroit, Mich. Waterproof automobile textile material, &c. No. 134,632; Sept. 14; v. 278; p. 355.
Douglas Paint Oil Co., Chicago, Ill. Linseed-oil substitute. No. 134,633; Sept. 14; v. 278; p. 355.
Druggists Concentrates Co., Pittsburgh, Pa. Toilet preparations. No. 134,635; Sept. 14; v. 278; p. 355.
Evans, Charles E., Manchester, Ga. Medicinal compound for the liver. No. 134,636; Sept. 14; v. 278; p. 355.
Evans, Madge, Hat Co., New York, N. Y. Straw and cloth hats for children, girls, and misses. No. 134,637; Sept. 14; v. 278; p. 355.
Evening News Publishing Company, Newark, N. J. Newspaper-section. No. 134,638; Sept. 14; v. 278; p. 355.
Everit Chemical Co., New Haven, Conn. Fire-extinguishing fluid. No. 134,639; Sept. 14; v. 278; p. 355.
Excello Mat Company, Inc., New York, N. Y. Leather table mats and runners. No. 134,640; Sept. 14; v. 278; p. 355.
Fair Maid Undergarment Co., The, New York, N. Y. Children's and misses' undergarments. No. 134,641; Sept. 14; v. 278; p. 355.
Farm Equipment Co., The, Baltimore, Md. Steel fire-resisting and surface roofing. No. 134,642; Sept. 14; v. 278; p. 355.
Feeback, Harry F., El Paso, Tex. Hair-tonic. No. 134,644; Sept. 14; v. 278; p. 355.
Feinberg & Feinberg, New York, N. Y. Cravats and neckties. No. 134,645; Sept. 14; v. 278; p. 355.
Fesler & Company, St. Louis, Mo. Ointment and tablets for colds, la grippe, and influenza, &c. No. 134,646; Sept. 14; v. 278; p. 355.
Fischer, J. & C., New York, N. Y. Pianofortes, grand and upright pianos, and player-pianos. No. 134,647; Sept. 14; v. 278; p. 355.
Fitzgerald & Perry, Keota, Iowa. Medicinal preparation to be externally used. No. 134,648; Sept. 14; v. 278; p. 355.
Fitzpatrick Bros., Chicago, Ill. Cleaning compound. No. 134,858; Sept. 14; v. 278; p. 363.
Fleisher, W. L., & Co., Inc., New York, N. Y. Air-conditioning apparatus, air-driers, &c. No. 134,649; Sept. 14; v. 278; p. 355.
Fougera, E., & Co., New York, N. Y. Medicines for the prevention of infections of the urinary tract. No. 134,650; Sept. 14; v. 278; p. 355.
Fox River Paper Company, Appleton, Wis. Writing-paper. No. 134,859; Sept. 14; v. 278; p. 363.
Foxley Staves and Lumber Co., Ltd., New Orleans, La. Staves. No. 134,860; Sept. 14; v. 278; p. 363.
Fulfashon Hosiery Company, New York, N. Y. Hosiery, Nos. 134,651–2; Sept. 14; v. 278; p. 355.
Gardner Motor Co., St. Louis, Mo. Automobiles. No. 134,653; Sept. 14; v. 278; p. 355.
Gary Laboratories Company, Gary, Ind. Foot-lotion. No. 134,654; Sept. 14; v. 278; p. 355.
Gates Rubber Company, The, Denver, Colo. Rubber tires. No. 134,655; Sept. 14; v. 278; p. 355.
General Electric Company Limited, The, London, England. Electric carbons. No. 134,656; Sept. 14; v. 278; p. 355.
Gerstendorfer Bros., New York, N. Y. Paints and painters' materials and a furniture-polish. No. 134,657; Sept. 14; v. 278; p. 355.
Gleason's, Edwin P., Son, Inc., New York, N. Y. Cotton piece goods. No. 134,861; Sept. 14; v. 278; p. 363.
Glidden Company, The, Cleveland, Ohio. Paints and painters' materials. Nos. 134,658–9; Sept. 14; v. 278; pp. 355–6.
Goodrich, B. F., Company, The, New York, N. Y. Billiard-cushions. No. 134,660; Sept. 14; v. 278; p. 356.
Goodrich, B. F., Company, The, New York, N. Y. Elevator-belts made of rubber reinforced with fabric. No. 134,661; Sept. 14; v. 278; p. 356.
Goodwirth, Emil, St. Louis, Mo. Writing and engrossing ink. No. 134,662; Sept. 14; v. 278; p. 356.
Gooken, James B., Los Angeles, Calif. Rectal suppositories. No. 134,663; Sept. 14; v. 278; p. 356.
Graham, Murdock M., Boston, Mass. Dolls. No. 134,748; Sept. 14; v. 278; p. 358.
Grand Rapids School Equipment Co., Grand Rapids, Mich. Phonographs. No. 134,664; Sept. 14; v. 278; p. 356.
Grant, W. T., Co., New York, N. Y. Hosiery. No. 134,665; Sept. 14; v. 278; p. 356.
Grasselli Chemical Co., The, Cleveland, Ohio. Dyestuffs. No. 134,666; Sept. 14; v. 278; p. 356.
Graves, Willard E., New York, N. Y. Children's dresses. No. 134,667; Sept. 14; v. 278; p. 356.
Greenbaum, Jacob L., Toledo, Ohio. Physic for children. No. 134,668; Sept. 14; v. 278; p. 356.
Greenhalgh, J. H., & Company, Chicago, Ill. Accounting-forms. No. 134,669; Sept. 14; v. 278; p. 356.
Grimwood Bros., Evansville, Ind. Phonograph-cabinets. No. 134,671; Sept. 14; v. 278; p. 356.
Haas, Adolph R., Chicago, Ill. Ladies' waists and blouses. No. 134,672; Sept. 14; v. 278; p. 356.
Haiff, S., & Co., Los Angeles, Calif. Hosiery. No. 134,673; Sept. 14; v. 278; p. 356.
Hall, Martha, San Francisco, Calif. Medicine for tuberculosis. No. 134,674; Sept. 14; v. 278; p. 356.
Halsam Products Company, Chicago, Ill. Building-blocks, play-blocks, and blocks for games. No. 134,675; Sept. 14; v. 278; p. 356.
Hardy, Robert T., Brooklyn, N. Y. Semi-annual periodicals. No. 134,676; Sept. 14; v. 278; p. 356.
Hartford Battery Manufacturing Company, The, Hartford, Conn. Storage batteries and parts thereof. No. 134,677; Sept. 14; v. 278; p. 356.
Haynes Automobile Company, The, Kokomo, Ind. Automobiles. No. 134,678; Sept. 14; v. 278; p. 356.
Heffner, Charles L., Brooklyn, N. Y. Medicinal preparation used in the treatment of certain named diseases. No. 134,679; Sept. 14; v. 278; p. 356.
Henderson Lithographing Company, The, Cincinnati, Ohio. Blotters, folders, &c. No. 134,680; Sept. 14; v. 278; p. 356.
Holquin, Ramona M., Douglas, Ariz. Remedy against dandruff, &c., and tonic to stimulate the growth of hair. No. 134,681; Sept. 14; v. 278; p. 356.
Hoosier Chemical Company, Mount Carmel, Ill. Stove-polish. No. 134,682; Sept. 14; v. 278; p. 356.
Hope Knitting Company, Cohoes, N. Y. Underwear for men and women. No. 134,683; Sept. 14; v. 278; p. 356.
Hudnut, Richard, New York, N. Y. Perfume, toilet water, sachet, talcum, face, and bath powders, cologne, &c. No. 134,684; Sept. 14; v. 278; p. 356.
Hunt Chemical Company, Jacksonville, Fla. Stainless croup and pneumonia salve. No. 134,685; Sept. 14; v. 278; p. 356.
Hunt Chemical Company, Jacksonville, Fla. Cold, croup, and pneumonia salve. No. 134,686; Sept. 14; v. 278; p. 356.
Hurley, William J., Chicago, Ill. Tonic for the bowel action and improving the digestion. No. 134,687; Sept. 14; v. 278; p. 356.
Hurley, William J., Chicago, Ill. Tonic for aiding the digestive organs and improving the appetite. No. 134,688; Sept. 14; v. 278; p. 356.

Iles, Albert S., Birmingham, England. Table ball-game. No. 134,690; Sept. 14; v. 278; p. 356.
Imrie, Carl B., Brooklyn, N. Y. Deodorants and preparations for the relief of excessive perspiration. No. 134,689; Sept. 14; v. 278; p. 356.
Indiana Truck Corporation, Marion, Ind. Motor-trucks. No. 134,691; Sept. 14; v. 278; p. 356.
International Coal Products Corporation. (See Smith, Charles H., assignor.)
Interstate Commerce Company, Richmond, Va. Non-alcoholic, non-cereal beverages. No. 134,862; Sept. 14; v. 278; p. 363.
"J. D." Insulating & Refrigerating Co. Ltd., Liverpool, England. Composition fireproof floorings and coverings for partitions, walls, and roofings. No. 134,692; Sept. 14; v. 278; p. 357.
Jennings Lace Works Corporation, Brooklyn, N. Y. Clothing. No. 134,693; Sept. 14; v. 278; p. 357.
Johnson City Mills, Johnson City, Tenn. Hosiery. No. 134,694; Sept. 14; v. 278; p. 357.
Jonas, Joseph C., Brooklyn, N. Y. Corn remedies, cough medicine, liniment for sprains, &c. No. 134,695; Sept. 14; v. 278; p. 357.
Judy, Will S., Lexington, Ky. Tobacco-seed. No. 134,696; Sept. 14; v. 278; p. 357.
Kasser, Adolf, Philadelphia, Pa. Soap. No. 134,697; Sept. 14; v. 278; p. 357.
Kaufman, Jacob J., Columbus, Ga. Pomade hair-dressing. No. 134,698; Sept. 14; v. 278; p. 357.
Kendorski, Walter, Philadelphia, Pa. Deodorant, an insecticide, and a roach powder. No. 134,699; Sept. 14; v. 278; p. 357.
Kick, Emile F., Newark, N. J. Sulfureted oil for emulsifying raw oils. No. 134,700; Sept. 14; v. 278; p. 357.
Kiger, Elizabeth, Birmingham, Ala. Hair-tonic. No. 134,701; Sept. 14; v. 278; p. 357.
Kilbourne & Clark Manufacturing Co., Seattle, Wash. Radio telegraph and telephone apparatus. No. 134,702; Sept. 14; v. 278; p. 357.
King Ventilating Company, Owatonna, Minn. Plans for building. No. 134,703; Sept. 14; v. 278; p. 357.
Koss, Edward H., Washington, D. C. Ointment for the relief of colds in the head and chapped skin. No. 134,704; Sept. 14; v. 278; p. 357.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 134,705; Sept. 14; v. 278; p. 357.
Kurman, Sonia, New York, N. Y. Hair-tonic. No. 134,706; Sept. 14; v. 278; p. 357.
Laclede-Christy Clay Products Company, St. Louis, Mo. High-temperature cement for the construction and repair of furnaces. No. 134,707; Sept. 14; v. 278; p. 357.
Lamb Railway Service Co., Ltd., Windsor, Canada, and Detroit, Mich. Automobile and furniture finish. No. 134,708; Sept. 14; v. 278; p. 357.
Lawrence Airplane Model and Supply Company, Chicago, Ill. Toy airplanes. No. 134,709; Sept. 14; v. 278; p. 357.
Lawrence Canning Co., Rockland, Me. Sardines. No. 134,710; Sept. 14; v. 278; p. 357.
Lazell Perfumer, Newburgh, N. Y. Toilet preparations. No. 134,711; Sept. 14; v. 278; p. 357.
Liberty Steel Products Company, Inc., New York, N. Y. Rubber tires. No. 134,712; Sept. 14; v. 278; p. 357.
Lichtenstein & Company Limited, Uxbridge, England. Coloring matters for foods and liquids. No. 134,713; Sept. 14; v. 278; p. 357.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 134,714; Sept. 14; v. 278; p. 357.
Lilly, Eli, & Company, The, Indianapolis, Ind. Expectorant and bronchial sedative. No. 134,715; Sept. 14; v. 278; p. 357.
Locke, H. E., & Company, Boston, Mass. Thread and yarn. No. 134,716; Sept. 14; v. 278; p. 357.
Locke, Insulator Manufacturing Company, The, Baltimore, Md. Insulators for high-tension insulation. No. 134,717; Sept. 14; v. 278; p. 357.
London, Samuel, & Co., Inc., New York, N. Y. Dress, negligée, and work shirts. No. 134,718; Sept. 14; v. 278; p. 357.
Lone Prairie Remedies Co., San Antonio, Tex. Medicine for tick-fever in animals. No. 134,719; Sept. 14; v. 278; p. 357.
Louisiana Motor Car Company, Inc., Shreveport, La. Automobiles. No. 134,720; Sept. 14; v. 278; p. 357.
Lowe, Jacob J., Boston, Mass. X-ray apparatus for determining the fit of footwear. No. 134,721; Sept. 14; v. 278; p. 357.
Lustr-Ite Corporation, The, Brooklyn, N. Y. Toilet preparations. No. 134,722; Sept. 14; v. 278; p. 357.
Lynn-Kerr & Co., Louisville, Ky. Pattern-hats for misses, women, and children. No. 134,723; Sept. 14; v. 278; p. 357.
McLaren Rubber Company, Charlotte, N. C. Rubber or rubber and fabric tires and tubes for vehicles. No. 134,724; Sept. 14; v. 278; p. 357.
McCrackin, Furman B., Bamberg, S. C. Medicine used in the treatment of chills, fever, malaria, &c. No. 134,725; Sept. 14; v. 278; p. 358.
McIntosh Battery and Optical Co., Chicago, Ill. Apparatus for therapeutic purposes. No. 134,726; Sept. 14; v. 278; p. 358.
M. & G. Novelty Company, Attleboro, Mass. Lingerie, scarf, collar, and bib clasps. No. 134,727; Sept. 14; v. 278; p. 358.
Madansky Brothers, Oklahoma, Okla. Clothing for men and boys. No. 134,728; Sept. 14; v. 278; p. 358.
Maire, August E., Minneapolis, Minn. Cold-water paint. No. 134,729; Sept. 14; v. 278; p. 358.
Manghisi, Andrew A., West Hoboken, N. J. Phonographs. No. 134,732; Sept. 14; v. 278; p. 358.
Mann, Alexander S., Providence, R. I. Liquid antiseptic. No. 134,730; Sept. 14; v. 278; p. 358.
Many Blanc and Co., Chicago, Ill. Cigars. No. 134,731; Sept. 14; v. 278; p. 358.
Marten, Edward R., St. Louis, Mo. Laxative medicinal remedies. No. 134,733; Sept. 14; v. 278; p. 358.
Martin, C. J., Austin, Tex. Insecticide and vermin-exterminator. No. 134,734; Sept. 14; v. 278; p. 358.
Master Builders Company, The, Cleveland, Ohio. Liquid preparation. No. 134,735; Sept. 14; v. 278; p. 358.
Mebane Bedding Co., The, Mebane, N. C. Felt mattresses. No. 134,736; Sept. 14; v. 278; p. 358.
Medici Society—American Branch—Inc., Boston, Mass. Prints and publications. No. 134,737; Sept. 14; v. 278; p. 358.
Mehlin, Paul G., & Sons, New York, N. Y. Pianos. No. 134,738; Sept. 14; v. 278; p. 358.
Meissner, C. R., Co., New York, N. Y. Embroidery-wool, wool threads, and threads made of linen, cotton, &c. No. 134,739; Sept. 14; v. 278; p. 358.
Melhuish, Harold T., Amityville, N. Y. Antiseptic and healing ointment. No. 134,740; Sept. 14; v. 278; p. 358.
Merchant Lovers Leather Co., Boston, Mass. Leather. No. 134,741; Sept. 14; v. 278; p. 358.
Metzler, Jerome, New York, N. Y. Silks, satin, velvets, &c. No. 134,742; Sept. 14; v. 278; p. 358.
Meyer Brothers Drug Company, St. Louis, Mo. Toilet preparations. No. 134,743; Sept. 14; v. 278; p. 358.
Midland Playing Card Co., Chicago, Ill. Playing-cards. No. 134,744; Sept. 14; v. 278; p. 358.
Mills, Angier, Ashland, Mass. Waterproof wrapping and lining paper. No. 134,745; Sept. 14; v. 278; p. 358.
Mt. Tom Hat Manufacturing Company, Inc., Easthampton, Mass. Men's hats. No. 134,746; Sept. 14; v. 278; p. 358.
Muller Export Company, New York, N. Y., and Chicago, Ill. Hosiery. No. 134,747; Sept. 14; v. 278; p. 358.
Murray, Robt. W., Birmingham, Ala. Medicinal treatment for colds and grippe. No. 134,749; Sept. 14; v. 279; p. 358.
Narrow Fabric Co., The, Wyomissing borough, near Reading, Pa. Notions. No. 134,750; v. 278; p. 358.
New York Band Instr. Co., New York, N. Y. Musical instruments. No. 134,752; Sept. 14; v. 278; p. 358.
Newark Plaster Company, Newark, N. J. Plaster-of-Paris of non-adhesive character for use of dentists and surgeons. No. 134,751; Sept. 14; v. 278; p. 358.
Notaseme Hosiery Company, Philadelphia, Pa. Dolls. No. 134,753; Sept. 14; v. 278; p. 358.
Oakley Chemical Co., New York, N. Y. Granulated chemical cleaning compounds. No. 134,754; Sept. 14; v. 278; p. 358.
Ohio Varnish Company, The, Cleveland, Ohio. Paste soap. No. 134,755; Sept. 14; v. 278; p. 358.
Ori-Ori Company, New York, N. Y. Hair dyes and shampoo. No. 134,756; Sept. 14; v. 278; p. 358.
Palmer, Solon, New York, N. Y. Toilet and shaving soap. No. 134,757; Sept. 14; v. 278; p. 358.
Palmer Tire Company, The, Topeka, Kans. Tire-repair outfits comprising rubber patches and cement for attaching same. No. 134,758; Sept. 14; v. 278; p. 358.
Pandolfo, Samuel C., St. Cloud, Minn. Tanks, tool-chests, and canteens for automobiles. No. 134,759; Sept. 14; v. 278; p. 359.
Parker, Bettie, Lackawanna, N. Y. Soap. No. 134,760; Sept. 14; v. 278; p. 359.
Penn Grains and Feed Company, Philadelphia, Pa. Dairy rations. No. 134,863; Sept. 14; v. 278; p. 363.
Petroleum Products Co., San Francisco, Cal. Kerosene. No. 134,761; Sept. 14; v. 278; p. 359.
Phoenix Light Company, Milwaukee, Wis. Electric-light-fixture parts. No. 134,762; Sept. 14; v. 278; p. 359.
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Monthly magazine. No. 134,763; Sept. 14; v. 278; p. 359.
Piroxloid Products Corporation, New York, N. Y. Dice, dominoes, chess, checkers, &c. No. 134,764; Sept. 14; v. 278; p. 359.
Plymouth Phonograph Co., Plymouth, Wis. Phonographs. No. 134,765; Sept. 14; v. 278; p. 359.
Poetzl, Charles, Baltimore, Md. Remedy to promote the growth of the hair. No. 134,766; Sept. 14; v. 278; p. 359.
Polonia Drug Company, The, Philadelphia, Pa. Liniments to be used externally for relieving rheumatic and gouty conditions, neuralgia, liquid couch medicines headache remedies, liver-pills, &c. No. 134,767; Sept. 14; v. 278; p. 359.
Pomeroy Ink Manufacturing Co., Newark, N. J. Writing-inks of all kinds, inks for stamp-pads, and numbering-machines, &c. Nos. 134,768–9; Sept. 14; v. 278; p. 359.
Poor's Publishing Company, New York, N. Y. Publications. No. 134,770; Sept. 14; v. 278; p. 359.
Porcupine Manufacturing Company. (See Steell, Edgar M., assignor.)
Price, William B., Poughkeepsie, and New York, N. Y. Preparation for waterproofing and preserving automobile-tops and similar articles. No. 134,771; Sept. 14; v. 278; p. 359.

Procter and Gamble Company, The, Cincinnati, Ohio. Paper-pulp. No. 134,772; Sept. 14; v. 278; p. 359.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 134,773; Sept. 14; v. 278; p. 359.
Progressive Cigar Corporation of Philadelphia, Philadelphia, Pa. Cigars. No. 134,774; Sept. 14; v. 278; p. 359.
Quaker City Shirt Manufacturing Company, The, Norristown, Pa. Shirts, (dress, negligée, and work,) collars and cuffs. No. 134,775; v. 278; p. 359.
Radior Co. Ltd. of London, New York, N. Y. Forehead and under-chin pads. No. 134,776; v. 278; p. 359.
Randall-McLoughlin Co., Seattle, Wash. Agricultural seeds—namely, grain and grass seeds, nursery stock, &c. No. 134,777; Sept. 14; v. 278; p. 359.
Reliance Fur Dyeing, Inc., Paterson, N. J. Raw furs. No. 134,778; Sept. 14; v. 278; p. 359.
Retona Products Company, Dayton, Ohio. Laxative tablets and tonic. No. 134,779; Sept. 14; v. 278; p. 359.
Rice-Stix Dry Goods Company, St. Louis, Mo. Trunks, traveling-bags, suitcases, and brief-cases. No. 134,780; Sept. 14; v. 278; p. 359.
Richardson Corporation, Rochester, N. Y. Non-alcoholic maltless syrup and beverage made therefrom. No. 134,781; Sept. 14; v. 278; p. 359.
Ritter Bros., New York, N. Y. Ladies' handbags. No. 134,782; Sept. 14; v. 278; p. 359.
Ritzwoller & Co., Inc., New York, N. Y. Children's dresses. No. 134,783; Sept. 14; v. 278; p. 359.
Rogers & Madison Trunk Corporation, Petersburg, Va. Trunks, suitcases, traveling-bags, and handbags. No. 134,784; Sept. 14; v. 278; p. 359.
Rosenbaum Brothers, Salt Lake City, Utah. Overalls for men and boys. No. 134,785; Sept. 14; v. 278; p. 359.
Rumford Chemical Works, Providence, R. I. Baking-powder. No. 134,786; Sept. 14; v. 278; p. 359.
Russia Cement Company, Gloucester, Mass. Polish, cleaning, and preserving preparations for stoves. No. 134,787; Sept. 14; v. 278; p. 359.
Safety Equipment Company, The, Cleveland, Ohio. Trestles of the portable variety. No. 134,788; Sept. 14; v. 278; p. 359.
Safronik, Teddey, Buchanan, Saskatchewan, Canada. Salve for bruises, pimples, eczema, and all skin diseases. No. 134,789; Sept. 14; v. 278; p. 359.
Salisbury & Satterlee Co., Minneapolis, Minn. Mattresses. No. 134,790; Sept. 14; v. 278; p. 359.
Salisbury & Satterlee Co., Minneapolis, Minn. Mattresses, metal beds, couches, cribs, &c. No. 134,791; Sept. 14; v. 278; p. 359.
Salzer, John A., Seed Co., La Crosse, Wis. Garden, field, and flower seeds. No. 134,792; Sept. 14; v. 278; p. 360.
Samstag & Hilden Bros., New York, N. Y. Hand-mirrors, bonnet-mirrors, and picture-frames. No. 134,793; Sept. 14; v. 278; p. 360.
Sands Manufacturing Company, The, Cleveland, Ohio. Gas, gasolene, and kerosene water heaters, &c. No. 134,794; Sept. 14; v. 278; p. 360.
Schneider, Abraham B., New York, N. Y. Imitation fur. No. 134,796; Sept. 14; v. 278; p. 360.
Schoenfeld, Henry, New York, N. Y. Saffron. No. 134,797; Sept. 14; v. 278; p. 360.
Schoonmaker, F. W., Incorporated, New York, N. Y. Paste for skin irritations, bites, and poisonings. No. 134,798; Sept. 14; v. 278; p. 360.
Scrandrett, Leslie A., Sydney, New South Wales, Australia. Hides, skins, and raw furs. No. 134,795; Sept. 14; v. 278; p. 360.
Sears, Roebuck and Co., Chicago, Ill. Women's hats. No. 134,799; Sept. 14; v. 278; p. 360.
Sears, Roebuck and Co., Chicago, Ill. Hats for children and misses. No. 134,800; Sept. 14; v. 278; p. 360.
Service Station Supply Co., Detroit, Mich. Battery-testers. No. 134,801; Sept. 14; v. 278; p. 360.
Sherman, Mae Cleveland, Ohio. Liquid polish for furniture. No. 134,802; Sept. 14; v. 278; p. 360.
Shiman-Miller Manufacturing Company, Newark, N. J. Jewelry, not including watches. No. 134,803; Sept. 14; v. 278; p. 360.
Silkheart Mattress Co., Melbane, N. C. Mattresses. No. 134,804; Sept. 14; v. 278; p. 360.
Sinclair Manufacturing Company, The, Toledo, Ohio. Powdered lye. Nos. 134,805–6; Sept. 14; v. 278; p. 360.
Sioris, Pantelis A., New York, N. Y. Weekly newspapers. No. 134,807; Sept. 14; v. 278; p. 360.
Smith, Charles H., Irvington, N. J., assignor to International Coal Products Corporation, Richmond, Va. Briquets made from coal. No. 134,808; Sept. 14; v. 278; p. 360.
Solomon, Maurice, Cincinnati, Ohio. Liquid cleansing compound for removing grease-spots from fabrics. No. 134,809; Sept. 14; v. 278; p. 360.
Somma Shops, Inc., New York, N. Y. Furniture. No. 134,810; Sept. 14; v. 278; p. 360.
Sonn Brothers Company, New York, N. Y. Dyestuffs. Nos. 134,811–6; Sept. 14; v. 278; p. 360.
Sons and Daughters of Levi, Dothan, Ala. Medicine for treatment of mumps, measles, cholera, and liver trouble in hogs. No. 134,817; Sept. 14; v. 278; p. 360.
Standard Oil Company, New York, N. Y. Isopropyl alcohol. No. 134,818; Sept. 14; v. 278; p. 360.
Standard Tobacco Company, Inc., New York, N. Y. Cigarettes. No. 134,819; Sept. 14; v. 278; p. 360.
Stanford Seed Co., Inc., The, Binghamton, Buffalo, and Albany, N. Y. Seeds. No. 134,820; Sept. 14; v. 278; p. 360.
Stanley & Griffin, assignors to Stanley-Griffin, Lowell, Mass. Preparation for treatment of consumption and tuberculosis. No. 134,670; Sept. 14; v. 278; p. 356.
States Company, The, Hartford, Conn. Electrical transformers. No. 134,821; Sept. 14; v. 278; p. 361.
Steell Edgar M., assignor to Porcupine Manufacturing Company, Spokane, Wash. Automobile-tire patches and inner-liners. No. 134,822; Sept. 14; v. 278; p. 361.
Stitzel, E. E., & Son., Philadelphia, Pa. Automobile and furniture polish. No. 134,823; Sept. 14; v. 278; p. 361.
Straub, Gustav L., New York, N. Y. Natural prepared floral wreath. No. 134,824; Sept. 14; v. 278; p. 361.
Stromberg, Benjamen, New York, N. Y. Men's soft silk collars. No. 134,825; Sept. 14; v. 278; p. 361.
Strong, Carlisle & Hammond Company, The, Cleveland, Ohio. Annealing, tempering, forging, case-hardening, and melting metallurgical furnaces. No. 134,826; Sept. 14; v. 278; p. 361.
Tedford, W. L., Little Rock, Ark. Tires, tubes, and casing-patch. No. 134,827; Sept. 14; v. 278; p. 361.
Tiffany and Company, New York, N. Y. Electric lamps, candelabra, candlesticks, &c. Nos. 134,828–9; Sept. 14; v. 278; p. 361.
Toledo Enameled Wire Products Co., The, Toledo, Ohio. Wire, particularly magnet-wire. No. 134,830; Sept. 14; v. 278; p. 361.
Torrington Company, The, Torrington, Conn. Electric vacuum-cleaners. No. 134,864; Sept. 14; v. 278; p. 364.
Traders' Box & Lumber Company, Rochester, N. Y. Cribbeds. No. 134,831; Sept. 14; v. 278; p. 361.
True, Dr. J. F., & Co., Inc., Auburn, Me. Vermifuge and remedies for indigestion, biliousness, headache, colds, &c. No. 134,832; Sept. 14; v. 278; p. 361.
Tuttle, W. E., Co., The, Rochester, N. Y. Shoes of leather and a combination of leather and fabric. No. 134,833; Sept. 14; v. 278; p. 361.
Underwood Typewriter Company, New York, N. Y. Typewriting machine and parts. No. 134,865; Sept. 14; v. 278; p. 364.
United Drug Company, Boston, Mass. Smoking-tobacco. No. 134,834; Sept. 14; v. 278; p. 361.
United Drug Company, Boston, Mass. Preparation having deodorant, antiseptic, and perspiration-absorbent properties. No. 134,835; Sept. 14; v. 278; p. 361.
United Products & Sales Corporation, San Francisco, Calif. Lubricating oils and greases. No. 134,836; Sept. 14; v. 278; p. 361.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y., Arctics. No. 134,837; Sept. 14; v. 278; p. 361.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Liquid preparation for surface finish in the nature of a varnish. No. 134,838; Sept. 14; v. 278; p. 361.
Van Range, John, Co., The, Cincinnati, Ohio. Servingtables. No. 134,839; Sept. 14; v. 278; p. 361.
Veratone Phonograph Co., The, Marietta, Ohio. Phonograph-cabinets. No. 134,840; Sept. 14; v. 278; p. 361.
Vesper, Anna M., San Francisco, Calif. Automobile-polish. No. 134,841; Sept. 14; v. 278; p. 361.
Walker-Matteson Company, Joliet, Ill. Jar-rubbers. No. 134,842; Sept. 14; v. 278; p. 361.
Wallace & Freed Incorporated, Seattle, Wash. Songs, sheet-music, &c. No. 134,843; Sept. 14; v. 278; p. 361.
Ward Baking Company, New York, N. Y. Cakes. No. 134,844; Sept. 14; v. 278; p. 361.
Waters, Horace, & Co., New York, N. Y. Pianos. No. 134,866; Sept. 14; v. 278; p. 364.
Watson, Mamie E., Jackson, Miss. Hair-grower. No. 134,845; Sept. 14; v. 278; p. 361.
Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Underwear for men and women. No. 134,846; Sept. 14; v. 278; p. 361.
Wilcox & White Co., The, Meriden, Conn. Mechanical music-playing instruments and music-rolls therefor. No. 134,847; Sept. 14; v. 278; p. 361.
Williams, W. Reed, (1908) Limited, London, England. Articles of jewelry. No. 134,848; Sept. 14; v. 278; p. 361.
Wilson, Harold G., Titusville, Fla. Medicine used in the treatment of headache, neuralgia, rheumatism, &c. No. 134,849; Sept. 14; v. 278; p. 361.
Wing, John F., Maywood, Ill. Spark-plug intensifiers. No. 134,850; Sept. 14; v. 278; p. 361.
Wirt, John D., Frankfort, Ind. Cereal foods. No. 134,867; Sept. 14; v. 278; p. 364.
Wisconsin Shoe Company, Milwaukee, Wis. Athletic shoes made in the various combinations. No. 134,851; Sept. 14; v. 278; p. 361.
Wise, Shaw & Feder Company, The, Cincinnati, Ohio. Shoes. No. 134,852; Sept. 14; v. 278; p. 362.
Wood, George H., Boston, Mass. Liniment used externally for rheumatism, bruises, colds, &c. No. 134,853; Sept. 14; v. 278; p. 362.
Wright & Lawrence, Chicago, Ill. Preparation for the treatment of certain named diseases. No. 134,854; Sept. 14; v. 278; p. 362.
Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Iron and steel pipe, wire, and nails. No. 134,868; Sept. 14; v. 278; p. 364.
Zalkind, Philip, New York, N. Y. Paper boxes and cartons. No. 134,855; Sept. 14; v. 278; p. 362.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Bosack, J. H., Mfg. Co., Wilkes-Barre, Pa. "Bosack's Pelinko Horke Vino." (For a Medicinal Tonic.) No. 22,100; Sept. 14; v. 278; p. 365.
California Central Creameries, San Francisco, Calif. "Golden State." (For Powdered Skim-Milk.) No. 22,101; Sept. 14; v. 278; p. 365.
Corona Typewriter Company, Inc., Groton, N. Y. "The Personal Writing Machine." (For Typewriting-Machines.) No. 22,102; Sept. 14; v. 278; p. 365.
Crooke, John J., Company, The, New York, N. Y., and Chicago, Ill. "Indian Ink." (For Ink.) No. 22,103; Sept. 14; v. 278; p. 365.
Emerick, Martin L., M. D., Lancaster, Pa. "Dr. Emerick's Peacherb Tablets, Fruit Herb and Vegetable Extracts and Dr. Emerick's Famous Laxative Base." (For Constipation, Biliousness, Dyspepsia, and Autotoxemia.) No. 22,104; Sept. 14; v. 278; p. 365.
Emerick, Martin L., M. D., Lancaster, Pa. "Dr. Emerick's Peacherb Laxative Tablets." (For a Medicine for Constipation.) No. 22,105; Sept. 14; v. 278; p. 365.
Finkelman, George A., Revere, Mass. "George's Cre-Me-Est Complexion Cream." (For a Container for Medicated Cold-Cream.) No. 22,106; Sept. 14; v. 278; p. 365.
Greenmount Cigar Company, The, Brooklyn, N. Y. "Garcia Silveria." (For Cigars.) No. 22,107; Sept. 14; v. 278; p. 365.
Hoover, Roy H., Freeport, Ill. "Plantlife." (For a Fertilizer Compound.) No. 22,108; Sept. 14; v. 278; p. 365.
Isaacson, Joseph R., Chicago, Ill. "Cuban Grown." (For Cigars.) No. 22,109; Sept. 14; v. 278; p. 365.
Kordick, Peter Company, Chicago, Ill. "The Original Apollo." (For Cigars.) No. 22,110; Sept. 14; v. 278; p. 365.
Lautz Bros. & Co., Buffalo, N. Y. "Queen Anne Soap Powder." (For Soap Powder.) No. 22,111; Sept. 14; v. 278; p. 365.
Lautz Bros. Co., Buffalo, N. Y. "Queen Anne Scourer." (For a Scouring Preparation.) No. 22,112; Sept. 14; v. 278; p. 365.
Laytin, Ben, Omaha, Nebr. "Cowhide." (For Overalls.) No. 22,113; Sept. 14; v. 278; p. 365.
Leoffler Food Products Co., Inc., Washington, D. C. "Dono the Square Donut." (For Doughnuts.) No. 22,114; Sept. 14; v. 278; p. 365.
Lewis, William W., Seattle, Wash. "Uneek Salad Dressing." (For Containers Containing Salad-Dressing.) No. 22,115; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Picture Builder No. 2." (For Educational Playthings—Namely, Picture-Builders.) No. 22,116; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Picture Builder No. 3." (For Educational Playthings—Namely, Picture-Builders.) No. 22,117; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 41." (For Educational Playthings—Namely, Design-Builders.) No. 22,118; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 31." (For Educational Playthings—Namely, Design-Builders.) No. 22,119; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 22." (For Educational Playthings — Namely, Design-Builders.) No. 22,120; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 11." (For Educational Playthings—Namely, Design-Builders.) No. 22,121; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 21." (For Educational Playthings—Namely, Design-Builders.) No. 22,122; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 61." (For Educational Playthings—Namely, Design-Builders.) No. 22,123; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 51." (For Educational Playthings—Namely, Design-Builders.) No. 22,124; Sept. 14; v. 278; p. 365.
Magnus, Joseph E., Chicago, Ill. "Puritan Malt Extract." (For Cans Containing Malt Extract.) No. 22,125; Sept. 14; v. 278; p. 365.
Merrimac Packing Co., Lawrence, Mass. "Black-Iron." (For Stove-Polishes.) No. 22,126; Sept. 14; v. 278; p. 365.
Milwaukee Paper Box Company, Milwaukee, Wis. "My-O-My Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,127; Sept. 14; v. 278; p. 365.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Nougats." (For Boxes Containing Chocolate Candy.) No. 22,128; Sept. 14; v. 278; p. 365.
Milwaukee Paper Box Company, Milwaukee, Wis. "Old Style Chocolate Creams." (For Boxes Containing Chocolate Creams.) No. 22,129; Sept. 14; v. 278; p. 365.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Boxes Containing Chocolate-Covered Cherries.) No. 22,130; Sept. 14; v. 278; p. 365.
Mitchell, L., & Co., Chicago, Ill. "Magic Marvel." (For Packages Containing Washing-Powder.) No. 22,131; Sept. 14; v. 278; p. 365.
Newark Paraffine & Parchment Paper Co., Newark, N. J.; Columbus, Ohio, and New York, N. Y. "Dixie Chews." (For Candy.) No. 22,132; Sept. 14; v. 278; p. 365.
No-Leak-O Piston Ring Company, Baltimore, Md. "No-Leak-O Oilsealing." (For Piston-Rings.) No. 22,133; Sept. 14; v. 278; p. 365.
Pennsylvania Chocolate Company, Pittsburgh, Pa. "Zay-Tek." (For Chocolate and Cocoa.) No. 22,134; Sept. 14; v. 278; p. 365.
Rath, Olive H., Columbus, Ohio. "Hunter Malt." (For a Malt-Syrup.) No. 22,135; Sept. 14; v. 278; p. 365.
Rumple, Julius, Weston, Mo. "Home Pride." (For Flour.) No. 22,136; Sept. 14; v. 278; p. 366.
Sterling Pin Company, Derby, Conn. "Bird Design." (For Cartons Containing Hairpins.) No. 22,137; Sept. 14; v. 278; p. 366.
Van Dyke, William L., Tampa, Fla. "Usacuba." (For Cigars.) No. 22,138; Sept. 14; v. 278; p. 366.
Walters, Henry V., Long Branch, N. J. "Some!!!" (For Cakes.) No. 22,139; Sept. 14; v. 278; p. 366.
White & Wyckoff Mfg. Co., Holyoke, Mass. "Martha Washington." (For Boxes of Stationery and Writing-Tablets.) No. 22,140; Sept. 14; v. 278; p. 366.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Lead Pencil Company, New York, N. Y. "The Largest Selling Quality Pencil in the World." (For Lead-Pencils.) Nos. 5,336–8; Sept. 14; v. 278; p. 366.
B. V. D. Company, The, New York, N. Y. "Long Wear." (For Athletic Underwear.) No. 5,340; Sept. 14; v. 278; p. 366.
Boston Confectionery Company, Cambridge, Mass. "It Simply isn't Christmas without Sparrows." (For Confectionery.) No. 5,339; Sept. 14; v. 278; p. 366.
Cunningham, John A., & Co., Attleboro, Mass. "The Snappy Link." (For Cuff-Links.) No. 5,341; Sept. 14; v. 278; p. 366.
Detmer Woolen Co., New York, N. Y. "Come in Let Us Show You Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) No. 5,342; Sept. 14; v. 278; p. 366.
Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Fig Pudding." (For Heinz Fig-Pudding." No. 5,343; Sept. 14; v. 278; p. 366.
Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Tomato Ketchup." (For Heinz Tomato Catchup.) No. 5,344; Sept. 14; v. 278; p. 366.
Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans." (For Heinz Oven-Baked Beans.) No. 5,345; Sept. 14; v. 278; p. 366.
Kirk, James S., & Company, Chicago, Ill. "For a Lovely Complexion and Glorious Hair." (For Soap.) No. 5,346; Sept. 14; v. 278; p. 366.
No-Leak-O Piston Ring Company, Baltimore, Md. "No-Leak-O Oilsealing." (For Piston-Rings.) No. 5,347; Sept. 14; v. 278; p. 366.
Palmolive Company, The, "Simple Home Treatment Which Makes Your Hair Thick and Beautiful." (For Shampoo.) No. 5,348; Sept. 14; v. 278; p. 366.
Porcher, E. P., Cocoa, Fla. "Deerfield." (For Oranges and Grapefruit.) No. 5,349; Sept. 14; v. 278; p. 366.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You'll fuss a pipe like it's the new baby." (For Smoking-Tobacco.) No. 5,350; Sept. 14; v. 278; p. 366.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "How do you get that way?" (For Smoking-Tobacco.) No. 5,351; Sept. 14; v. 278; p. 366.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Abbott Laboratories, The, Chicago, Ill. Anesthetics. No. 128,311; Sept. 14; v. 278; p. 331.
Accolite Mfg. Co., Newark, N. J. Buttons of all kinds except those made from precious metal. No. 128,873; Sept. 14; v. 278; p. 332.
Akaba, Inosuke, Stockton, Calif. Rice. No. 129,618; Sept. 14; v. 278; p. 334.
Albers Bros. Milling Company, San Francisco, Calif. Stock feed. No. 135,462; Sept. 14; v. 278; p. 351.
Allied Packers, Incorporated, Chicago, Ill. Meats, lard, butter, eggs, &c. No. 131,768; Sept. 14; v. 278; p. 337.
Amalgamated Leather Companies, Inc. Wilmington, Del., and New York, N. Y. Leather. No. 131,691; Sept. 14; v. 278; p. 336.
Anaheim Citrus Fruit Association, Anaheim, Calif. Fresh citrus fruits. No. 134,341; Sept. 14; v. 278; p. 343.
Anderson, Albert J., La Crosse, Wis. Trailer coupling attachments. No. 130,463; Sept. 14; v. 278; p. 335.
Anderson, Meyer & Company, Ltd., New York, N. Y. Turpentine and turpentine substitutes. No. 134,623; Sept. 14; v. 278; p. 344.
Animated Advertising Corporation, Kansas City, Mo. Mechanical advertising-signs. No. 133,648; Sept. 14; v. 278; p. 341.
Automatic Clerk Company, Newark, N. J. Chewing-gum. No. 128,646; Sept. 14; v. 278; p. 331.
Baker R & L Company, The, Cleveland, Ohio. Vehicle Bodies; No. 133,953; Sept. 14; v. 278; p. 342.
Baltimore Butterine Co., The, Baltimore, Md. Oleomargarin. No. 133,394; Sept. 14; v. 278; p. 340.
Barney, Capen & Denham Co., Brockton, Mass. Leather boots and shoes. No. 133,907; Sept. 14; v. 278; p. 342.
Bastian-Morley Co., Laporte, Ind. Gas water-heaters. No. 134,873; Sept. 14; v. 278; p. 346.
Bastian-Morley Co., Laporte, Ind. Gas water-heaters. No. 134,875. Sept. 14; v. 278; p. 346.
Bay City Milling Co., Bay City, Mich. Wheat-flour. No. 135,265; Sept. 14; v. 278; p. 349.
Beaton, J. R. Co. Inc., New York, N. Y. Hosiery. No. 132,626; Sept. 14; v. 278; p. 338.
Bech, Van Siclen & Co., Inc., New York, N. Y. Canned fruits, fish, vegetables, milk. No. 134,176; Sept. 14; v. 278; p. 342.
Bee Bee Confection Company, The, Dayton, Ohio. Non-alcoholic, non-cereal, maltless beverages. No. 122,681; Sept. 14; v. 278; p. 329.
Bernard, Gustave, New York, N. Y. Tooth-paste. No. 129,820; Sept. 14; v. 278; p. 334.
Bingo Mustard Co., South Bend, Ind. Mustard. No. 134,841; Sept. 14; v. 278; p. 345.
Bishop & Company, Los Angeles, Calif. Candy. No. 135,034; Sept. 14; v. 278; p. 348.
Bitoslag Paving Company, New York, N. Y. Paving material. No. 135,198; Sept. 14; v. 278; p. 349.
Blackman, Samuel, Philadelphia, Pa. Non-alcoholic fruit-punches, ginger-ale, and root-beer. No. 130,264; Sept. 14; v. 278; p. 335.
Blyn, I., & Sons, Inc., New York, N. Y. Shoes. No. 115,899; Sept. 14; v. 278; p. 327.
Boal's Rolla Corporation, New York, N. Y. Medicated fruit usable as a laxative and purgative. No. 120,089; Sept. 14; v. 278; p. 328.
Boston Belting Corporation, Boston, Mass. Belting, hose, and packing. No. 122,459; Sept. 14; v. 278; p. 329.
Brooks, Clyde, Columbus, Ohio. Protein substance. No. 117,477; Sept. 14; v. 278; p. 328.
Candy Products Corporation, Chicago, Ill. Candies. No. 134,938; Sept. 14; v. 278; p. 347.
Cardinet Candy Co., Oakland, Calif. Candy. No. 135,134; Sept. 14; v. 278; p. 349.
Carolene Co., Inc., The, Chicago, Ill. Compound of refined nut-oils and evaporated skimmed milk. No. 134,945; Sept. 14; v. 278; p. 347.
Carr, R. F., Memphis, Tenn. Polishes for automobiles, furniture, &c. No. 133,294; Sept. 14; v. 278; p. 339.
Carter Carburetor Company, St. Louis, Mo. Carburetors. No. 133,519; Sept. 14; v. 278; p. 340.
Central Tent & Awning Company, St. Louis, Mo. Tents and awnings. No. 133,871; Sept. 14; v. 278; p. 342.
Cereal Products Refining Company, San Francisco, Calif. Syrup for food purposes. Nos. 134,459–60; Sept. 14; v. 278; p. 343.
Cereal Products Refining Company, San Francisco, Calif. Syrup for food purposes and a dough-developer. No. 134,458; Sept. 14; v. 278; p. 343.
Chalet Chocolate Corporation, New York, N. Y. Candy, chocolate, and cocoa. No. 134,880; Sept. 14; v. 278; p. 346.
Chandler, Fred K., Des Moines, Iowa. Stock food. No. 135,359; Sept. 14; v. 278; p. 351.

Challenger, Edgar O., New York, N. Y. Kansas hard-wheat patent flour. No. 118,294; Sept. 14; v. 278; p. 328.
Chester Beverage Co., Chester, Pa. Root-beer, ginger-ale, lemon-soda, &c. No. 133,080; Sept. 14; v. 278; p. 338.
Chicago Metallic Manufacturing Co., Chicago, Ill. Muffin-pans. No. 122,154; Sept. 14; v. 278; p. 328.
Chipman, Benjamin, Baltimore, Md. Men's silk and cotton dress or work shirts. No. 133,203; Sept. 14; v. 278; p. 338.
Chipman Knitting Mills, Easton, Pa. Hosiery. No. 135,357; Sept. 14; v. 278; p. 351.
Clamert Manufacturing Company, The, Pittsburgh, Pa. Headlight-lenses. No. 135,442; Sept. 14; v. 278; p. 351.
Comfort Garment Company, Pittsburgh, Pa. Infants' underwaists. No. 131,310; Sept. 14; v. 278; p. 335.
Connecticut Pop Corn Co., Norwich, Conn. Popcorn confection. No. 134,881; Sept. 14; v. 278; p. 346.
Conner & Co., Portland, Oreg. Table-syrup, molasses, and honey. No. 134,932; Sept. 14; v. 278; p. 346.
Consolidated Belting Company, Philadelphia, Pa. Leather belting. No. 128,265; Sept. 14; v. 278; p. 331.
Craddock Terry Company, Lynchburg, Va. Misses' and children's shoes. No. 134,773; Sept. 14; v. 278; p. 345.
Cremint Co., New York, N. Y. Packages of candy. No. 126,717; Sept. 14; v. 278; p. 330.
Damsey, Bessie, New York, N. Y. Nightgowns, pajamas, combinations, &c. No. 133,404; Sept. 14; v. 278; p. 340.
Dan Valley Mills, Danville, Va. Wheat-flour. Nos. 133,613–14; Sept. 14; v. 278; p. 341.
Danielson-Gardanier Manufacturing Company, Chicago, Ill. Broaches, expanding burnishers, wrenches, &c. No. 134,118; Sept. 14; v. 278; p. 342.
Dawson, Joseph C., Lynn, Mass. Rubber vehicle-tires. No. 130,409; Sept. 14; v. 278; p. 335.
De-Fi Manufacturing Company, New York, N. Y. Carbon-paper, typewriter-ribbons. No. 129,004; Sept. 14; v. 278; p. 332.
Delmore Manufacturing Company, Inc., New York, N. Y. Light motor road-vehicles. No. 130,721; Sept. 14; v. 278; p. 335.
De Vol, F. C., Hardware Co., Council Bluffs, Iowa. Warm-air furnace burning coal, wood, oil, or other fuel. No. 134,464; Sept. 14; v. 278; p. 343.
Dewhurst, Thomas B., Lexington, Ky. Automobile-headlight lenses. No. 130,884; Sept. 14; v. 278; p. 335.
Dickbudt, John H., St. Paul, Minn. Ice-cream cones or cornets. No. 134,774; Sept. 14; v. 278; p. 345.
Dodd, William E., New York, N. Y. Silk, velvet, and cotton ribbons. No. 129,626; Sept. 14; v. 278; p. 334.
Dodge, Sweeney & Co., San Francisco, Calif. Canned fruits, vegetables, fish, &c. No. 132,776; Sept. 14; v. 278; p. 338.
Du Pont, E. I., de Nemours & Co., Wilmington, Del., and New York, N. Y. Lithopone. No. 112,295; Sept. 14; v. 278; p. 327.
Early-Stratton Co., Memphis, Tenn. Coffee. No. 135,039; Sept. 14; v. 278; p. 348.
Emerson Drug Company, Baltimore, Md. Non-alcoholic, non-cereal, maltless beverage. No. 118,830; Sept. 14; v. 278; p. 328.
Excelsior Motor Mfg. & Supply Co., Chicago, Ill. Motorcycles and bicycles. No. 132,687; Sept. 14; v. 278; p. 338.
Fabric Belt & Lace Co., La Crosse, Wis. Canvas belting and belt-lacing. No. 127,472; Sept. 14; v. 278; p. 331.
Fairfield Canning Company, The, Chillicothe, Ohio. Canned vegetables. No. 126,117; Sept. 14; v. 278; p. 330.
Farm Equipment Company, The, Baltimore, Md. Belting. No. 126,687; Sept. 14; v. 278; p. 330.
Fischer, Albert C., Chicago, Ill. Composition roofing, asphalt shingles, asphalts, &c. No. 128,836; Sept. 14; v. 278; p. 332.
Fitzgerald Manufacturing Company, The, Torrington, Conn. Massage shower-bath sprays. No. 134,468; Sept. 14; v. 278; p. 343.
Flores, Anania, Marianna, Pa. Hair-restorer. No. 128,344; Sept. 14; v. 278; p. 331.
Franklin Valveless Engine Company, Franklin, Pa. Gas-engines, oil-engines, working barrels for oil-well pumps, &c. No. 133,576; Sept. 14; v. 278; p. 341.
Gates Rubber Company, The, Denver, Colo. Belting hose, machinery packing, tires. No. 132,859; Sept. 14; v. 278; p. 338.
Gerson & Goodman, Philadelphia, Pa. Men's dress and negligée shirts. No. 133,577; Sept. 14; v. 278; p. 341.
Gilardini, Felice, Turin, Italy. Leather belts. No. 128,888; Sept. 14; v. 278; p. 330.

Globe Canning Co., Eastport and North Lubec, Me. Sardines. No. 111,725; Sept. 14; v. 278; p. 327.
Golden Seal Laboratories, Inc., Parkersburg, W. Va. Preparation for treatment of indigestion and dyspepsia. No. 128,436; Sept. 14; v. 278; p. 331.
Goodrich, B. F., Company, The, New York, N. Y. Belts made of rubber reinforced with fabric. No. 131,952; Sept. 14; v. 278; p. 337.
Goodrich, B. F., Company, The New York, N. Y. Elevator-belts. No. 131,959; Sept. 14; v. 278; p. 337.
Goodrich, B. F., Company, The, New York, N. Y. Hose and sheet-packing. No. 131,958; Sept. 14; v. 278; p. 337.
Goodrich, B. F., Company, The, New York, N. Y. Sheet-packing. No. 131,964; Sept. 14; v. 278; p. 337.
Goodwill Rubber Co. Inc., New York, N. Y. Inner tubes for pneumatic tires. No. 133,660; Sept. 14; v. 278; p. 341.
Gordon & Dilworth, Inc., New York, N. Y. Orange marmalade. No. 133,966; Sept. 14; v. 278; p. 342.
Goulds Manufacturing Co., The, Seneca Falls, N. Y. Power-driven water-supply pumps. No. 132,918; Sept. 14; v. 278; p. 338.
Graham-Bumgarner Company, Parkersburg, W. Va. Shoes. No. 135,323; Sept. 14; v. 278; p. 350.
Graham-Bumgarner Company, Parkersburg, W. Va. Shoes. No. 135,325; Sept. 14; v. 278; p. 350.
Great Grimsby Coal, Salt and Tanning Company Limited, Great Grimsby, England. Oilskin clothing. No. 134,747; Sept. 14; v. 278; p. 344.
Great Western Milling Company, Los Angeles, Calif. Feed for stock, particularly for hens. No. 135,471; Sept. 14; v. 278; p. 352.
Great Western Milling Company, Los Angeles, Calif. Food for stock, particularly for chickens. No. 135,470; Sept. 14; v. 278; p. 357.
Great Western Milling Company, Los Angeles, Calif. Food for stock, particularly for hogs. No. 135,472; Sept. 14; v. 278; p. 352.
Guiterman, Rosenfeld & Company, New York, N. Y. Mechanically-operated automobile-horns. No. 133,258; Sept. 14; v. 278; p. 338.
Gurley Candy Company, Minneapolis, Minn. Candy. Nos. 135,042–3; Sept. 14; v. 278; p. 348.
Haughton, Richard, Paoli, Pa. Seeds (flower and vegetable and field) and horses. Nos. 134,471–2; Sept. 14; v. 278; p. 344.
Hawley & Hoops, New York, N. Y. Chocolate candy. No. 135,145; Sept. 14; v. 278; p. 349.
Heald Machine Company, The, Worcester, Mass. Grinding-machines. No. 133,315; Sept. 14; v. 278; p. 340.
Hide Leather & Belting Co., Indianapolis, Ind. Leather belting. No. 133,305; Sept. 14; v. 278; p. 339.
Hide Leather & Belting Co., Indianapolis, Ind. Leather belting. No. 133,309; Sept. 14; v. 278; p. 339.
Hide Leather & Belting Co., Indianapolis, Ind. Leather belting. Nos. 133,311–13; Sept. 14; v. 278; p. 339.
Highway Motors Co., Chicago, Ill. Motor-trucks. No. 126,779; Sept. 14; v. 278; p. 329.
Hooven, Owens, Rentschler Company, The, Hamilton, Ohio. Corliss steam-engines, puppet-valve steam-engines, sugar-mills, &c. No. 134,891; Sept. 14; v. 278; p. 346.
Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. Nos. 135,278–9; Sept. 14; v. 278; p. 350.
House Brothers, Plant City, Fla. Fresh citrus fruits. No. 135,277; Sept. 14; v. 278; p. 350.
Hunt, Allen, Crooksville, Ohio. Medical preparation for hog cholera. No. 126,472; Sept. 14; v. 278; p. 330.
Illinois Battery Steamer Co., Peoria, Ill. Battery-steamers, battery steamers and stills, stills, &c. No. 129,596; Sept. 14; v. 278; p. 333.
Indiana Indestructible Paint Co., Chicago, Ill. Flat paint for finishing interior walls, &c. No. 128,967; Sept. 14; v. 278; p. 332.
International Company, The, Baltimore, Md. Fruit emulsion, flavors without alcohol, powdered egg preparations, &c. No. 133,672; Sept. 14; v. 278; p. 341.
International Cork Company, Brooklyn, N. Y. Cork blocks and floor-tiling and heat-insulating materials, &c. No. 126,127; Sept. 14; v. 278; p. 330.
International Corn Products Corporation, Detroit, Mich. Popcorn. No. 134,957; Sept. 14; v. 278; p. 347.
International India Rubber Corporation, South Bend, Ind. Belting, hose, packing, tires. No. 134,823; Sept. 14; v. 278; p. 345.
International India Rubber Corporation, South Bend, Ind. Rubber tires. No. 134,822; Sept. 14; v. 278; p. 345.
Kalinska, Constancya A., Cleveland, Ohio. Remedy for debilities of stomach, headache, &c. No. 129,178; Sept. 14; v. 278; p. 333.
Kaufman Packing Co., Inc., Baltimore, Md. Lard containing cotton-seed oil. No. 133,973; Sept. 14; v. 278; p. 342.
Kearns-Gorsuch Bottle Company, The, Zanesville, Ohio. Glass bottles and jars. No. 133,358; Sept. 14; v. 278; p. 340.
Kellerit-Schlauch-Gesellschaft m. b. H., Vienna, Austria. Flexible paper tubes. No. 110,278; Sept. 14; v. 278; p. 327.
Kleinert, I. B., Rubber Company, New York, N. Y. Infants' and children's underwear and baby-pants. No. 135,329; Sept. 14; v. 278; p. 351.
Kleinert, I. B., Rubber Company, New York, N. Y. Infants' and children's underwear, baby pants and waders. No. 135,328; Sept. 14; v. 278; p. 350.
Klemm, A. M., & Son, Winter Haven, Fla. Fresh citrus fruit. No. 125,891; Sept. 14; v. 278; p. 329.
Kolar, Otto J., Chicago, Ill. Perfume-cream for neutralizing body-odors. No. 129,263; Sept. 14; v. 278; p. 333.
Kops, Rae, New York, N. Y. Corsets. No. 134,782; Sept. 14; v. 278; p. 345.
Lamb, T. A., Company, Memphis, Tenn. Coffee. No. 134,827; Sept. 14; v. 278; p. 345.
Langhoff Brothers Company, New Orleans, La. Table-syrup. No. 134,966; Sept. 14; v. 278; p. 347.
La Rue Medicine Company, Los Angeles, Calif. Liquid composition for the treatment of kidney, bladder, and liver diseases. No. 129,787; Sept. 14; v. 278; p. 334.
Lauter, Felix, Castletown, N. Y. Phonograph-records. No. 135,153; Sept. 14; v. 278; p. 349.
Lewis, Albert D., Los Angeles, Calif. Grape product containing less than one-half of one per cent. of alcohol. No. 134,829; Sept. 14; v. 278; p. 345.
Lockyer, Frank H., Supply Co. Limited, Liverpool, England. Dried herbs for seasoning. No. 115,641; Sept. 14; v. 278; p. 327.
Magee Furnace Company Inc., Boston, Mass. Stoves, ranges, and parts thereof. No. 133,548; Sept. 14; v. 278; p. 340.
Marshall Canning Company, Marshalltown, Iowa. Canned vegetables. No. 134,971; Sept. 14; v. 278; p. 347.
Massasoit Manufacturing Company, Fall River, Mass. Wicking used for packing. Nos. 129,220–1; Sept. 14; v. 278; p. 333.
Massasoit Manufacturing Company, Fall River, Mass. Wicking used for packing purposes. No. 129,231; Sept. 14; v. 278; p. 333.
Medco Company, The, Dayton, Ohio. Finger-nail polish. No. 126,047; Sept. 14; v. 278; p. 330.
Mercury Body Corporation, Lexington, Ky. Automobile bodies and underframes. No. 135,568; Sept. 14; v. 278; p. 352.
Metzger, Louis, & Co., New York, N. Y. Sweaters, neck-scarfs, shawls, &c. No. 135,333; Sept. 14; v. 278; p. 351.
Mills Candy Co., Milwaukee, Wis. Candy. No. 135,054; Sept. 14; v. 278; p. 348.
Missouri Cobalt Company, Fredericktown, Mo. Color ingredients for paints, paint and glaze enamels, &c. No. 129,945; Sept. 14; v. 278; p. 334.
Money Back Laboratories, Inc., Oklahoma, Okla. Tube-patches, heavy-casing patches and patch kits. Nos. 131,583–5; Sept. 14; v. 278; p. 336.
Morse, A. G., Co., Chicago, Ill. Candy. No. 134,839; Sept. 14; v. 278; p. 345.
Mountain Mill Paper Company, Lee, Mass. Greaseproof parchment-paper. No. 133,550; Sept. 14; v. 278; p. 340.
National Carbon Company, Inc., New York, N. Y. Dry batteries. No. 134,596; Sept. 14; v. 278; p. 344.
National Ring Traveler Co., Providence, R. I. Shoe and clothing buttons. No. 132,479; Sept. 14; v. 278; p. 337.
New York Merchandise Company, New York, N. Y. Safety-pins. No. 135,940; Sept. 14; v. 278; p. 352.
Nourse Oil Company, Rosedale, Kans., and Kansas City, Mo. Lubricating-oils. No. 125,904; Sept. 14; v. 278; p. 330.
O'Connell, Edward J., Pittsfield, Mass. Automobile-tire patch. No. 135,165; Sept. 14; v. 278; p. 349.
Old Baldy Citrus Association, Upland, Calif. Fresh citrus fruits. No. 134,381; Sept. 14; v. 278; p. 343.
Orbis Products Trading Co. Inc., New York, N. Y. Gum-arabic, perfumery, essential oils, &c. No. 114,769; Sept. 14; v. 278; p. 327.
Oswego Milling Company, Inc., Oswego, N. Y. Stock food. Nos. 135,014–5; Sept. 14; v. 278; p. 348.
Papendick Bakery Company, St. Louis, Mo. Bread. No. 135,616; Sept. 14; v. 278; p. 352.
Patch, E. L., Co., The, Stoneham, Mass. Root-beer extract. No. 134,851; Sept. 14; v. 278; p. 346.
Patrick, F. A., & Co., Duluth, Minn. Rubber hose. No. 130,925; Sept. 14; v. 278; p. 335.
Patterson-Sargent Company, The, Cleveland, Ohio. Dry and ready-mixed paints, wood-stains, varnish-stains, &c. No. 134,756; Sept. 14; v. 278; p. 344.
Pauwela Pineapple Company, San Francisco, Calif. Canned fruits. Nos. 134,977–9; Sept. 14; v. 278; p. 347.
Powers Manufacturing Company, The, Waterloo, Iowa. Transmission-linings. No. 132,200; Sept. 14; v. 278; p. 337.
Rainier Products Company Seattle, Wash. Maltless non-alcoholic fruit beverage. No. 134,546; Sept. 14; v. 278; p. 344.
Remschel, Theodore G., Chicago, Ill. Milk-powder. No. 126,198; Sept. 14; v. 278; p. 330.
Rico Milk Products Company, East Troy Wis. Evaporated cream. No. 133,166; Sept. 14; v. 278; p. 338.
Rustokut Company, The, Washington, D. C. Preparation for removing rust. No. 128,620; Sept. 14; v. 278; p. 331.
Samstag and Hilder Bros., New York, N. Y. Combs and button-hooks not made of precious metal. No. 128,466; Sept. 14; v. 278; p. 331.
Schoenhofen Company, Chicago, Ill. Birch-ale. No. 134,795; Sept. 14; v. 278; p. 345.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Scott Player Action Co., Racine, Wis. Player-piano actions. No. 135,385; Sept. 14; v. 278; p. 351.

Scourby, Constantine, New York, N. Y. Chocolates, bonbons, and candies. No. 132,490; Sept. 14; v. 278; p. 337.

Scranton Distributing and Mfg. Co., Scranton, Pa. Kidney and bladder stimulant. No. 128,902; Sept. 14; v. 278; p. 332.

Sharp-Philippi Co. Inc., Gloucester City, N. J. Antiseptic solution for leucorrhea, gout, boils, &c. No. 128,566; Sept. 14; v. 278; p. 331.

Shelby Candy and Manufacturing Company, The, Shelby, Ohio. Chocolates and candy. Nos. 135,300–2; Sept. 14; v. 278; p. 350.

Sheip, William H., & Company, New York, N. Y. Underwear. No. 131,129; Sept. 14; v. 278; p. 335.

Sicher, D. E., & Co. Inc., New York, N. Y. Women's, misses', and children's muslin, lawn, &c., undergarments. No. 134,921; Sept. 14; v. 278; p. 346.

Silz, A., Inc., New York, N. Y. Macaroni, cheeses, orange and grapefruit marmalade, &c. No. 131,754; Sept. 14; v. 278; p. 336.

Skeiton Motors Corporation, St. Louis, Mo. Automobiles. No. 134,433; Sept. 14; v. 278; p. 343.

Smaltz, Hugh N., Marion, Ind. Fabric gloves. No. 131,543; Sept. 14; v. 278; p. 336.

Smedley, Victor C., Denver, Colo. Preparation for dental-pulp preserving and capping. No. 129,815; Sept. 14; v. 278; p. 334.

Smith, Bertha H., Los Angeles, Calif. Skin ointment. No. 120,934; Sept. 14; v. 278; p. 328.

Smith, Edgar W., Indianapolis, Ind. Automobile and furniture polish. No. 130,449; Sept. 14; v. 278; p. 335.

Snyder, J. H., Med. Co., Jonesboro, Ark. Lotion for treating the complexion. No. 128,803; Sept. 14; v. 278; p. 332.

Société Anonyme des Anciens Établissements Hotchkiss & Cie., St. Denis, France. Automobiles complete, parts of automobiles, &c. No. 128,904; Sept. 14; v. 278; p. 332.

Southern Cotton Oil Company, Th., Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga.; Chicago, Ill. Edible oil. Nos. 135,117–8; Sept. 14; v. 278; p. 349.

Specific Remedy Company, Cincinnati, Ohio. Preparation for bathing the feet. No. 129,752; Sept. 14; v. 278; p. 334.

Spitz, Fannie S., Albuquerque, N. Mex. Piñon nuts. No. 124,123; Sept. 14; v. 278; p. 329.

St. Albans Grain Company, St. Albans, Vt. Poultry feeds—namely, buttermilk, baby-chick food, &c. No. 133,897; Sept. 14; v. 278; p. 342.

Stein, Jacob, New York, N. Y. Dress-shields. No. 135,176; Sept. 14; v. 278; p. 349.

Stephens, Henry M., Blevins, Ark. Cantaloups. No. 133,286; Sept. 14; v. 278; p. 339.

Stewart-Warner Speedometer Corporation, Chicago, Ill. Light-diffuseers or diffusing-bowls. No. 107,222; Sept. 14; v. 278; p. 327.

St. Louis Piston Ring Corporation, St. Louis, Mo. Metallic packing-rings. No. 135,174; Sept. 14; v. 278; p. 349.

Strickler, Jacob M., Kansas City, Mo. Non-alcoholic, non-cereal, maltless soft-drink syrup. No. 130,688; Sept. 14; v. 278; p. 335.

Strong, Kennard & Nutt Company, The, Cleveland, Ohio. Protective and safety devices for workers and others. No. 126,340; Sept. 14; v. 278; p. 330.

Sun Gloss Polish Co., Woonsocket, R. I. Furniture, automobile, and piano polish. No. 133,288; Sept. 14; v. 278; p. 339.

Sun Harbor Packing Corporation, San Diego, Calif. Canned fish. No. 134,981; Sept. 14; v. 278; p. 347.

Tacoma Grain Company, Tacoma, Wash. Wheat-flour. No. 135,739; Sept. 14; v. 278; p. 352.

Tiffany & Company, New York, N. Y. Music-boxes. No. 135,388; Sept. 14; v. 278; p. 351.

Tisco Company, The, Chicago, Ill. Concentrated vanilla flavoring for foods. No. 134,863; Sept. 14; v. 278; p. 346.

True-Matic Tire & Tube Company, Wilmington, Del., and Wellington, Ohio. Automobile-tires composed principally of rubber. No. 135,530; Sept. 14; v. 278; p. 352.

Twin City Extract Co., Minneapolis, Minn. Non-alcoholic fruit juices. No. 122,617; Sept. 14; v. 278; p. 329.

Ungerer & Company, Inc., New York, N. Y. Flower-extraction products. No. 123,145; Sept. 14; v. 278; p. 329.

United States Leather Company, The, New York, N. Y. Leather. No. 129,197; Sept. 14; v. 278; p. 333.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Carriage-cloth. No. 129,106; Sept. 14; v. 278; p. 333.

Universal Garment Company, Inc., Philadelphia, Pa. Men's underwear and pajamas. No. 134,926; Sept. 14; v. 278; p. 346.

Universal Milk Company, The, Dover, Del. Condensed skimmed milk mixed with cocoanut-oil. Nos. 135,029–30; Sept. 14; v. 278; p. 348.

"U-Save-It" Stores Association, Inc., Birmingham, Ala. Wooden counters, shelving, wood and glass show-cases. No. 119,619; Sept. 14; v. 278; p. 328.

Victory Rubber Manufacturing Co., Atlanta, Ga., Rubber pneumatic tires. No. 133,718; Sept. 14; v. 278; p. 341.

Ward Baking Company, New York, N. Y. Bread. No. 133,810; Sept. 14; v. 278; p. 342.

Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour. No. 133,721; Sept. 14; v. 278; p. 341.

Webber, Sebastian C., Brinkley, Ark. Non-alcoholic, non-cereal, maltless beverages and syrups for making the same. No. 132,660; Sept. 14; v. 278; p. 338.

West End Thread Company, The, Millbury, Mass. Thread and yarns. No. 134,397; Sept. 14; v. 278; p. 343.

Westfield Manufacturing Company, Westfield, Mass. Pedal-driven three-wheel juvenile vehicles. Nos. 134,494–5; Sept. 14. v. 278; p. 344.

Whitney, Summers and Swim, Modesto, Calif. Dried fruits and fresh deciduous fruits. No. 133,511; Sept. 14; v. 278; p. 340.

Wilson Rubber Company, The, Des Moines, Iowa. Repair shoes and patches for pneumatic tires. No. 133,441; Sept. 14; v. 278; p. 340.

Winorr Canning Company, The, Circleville, Ohio. Canned vegetables. No. 134,990; Sept. 14; v. 278; p. 347.

Wood, W. B., Mfg. Co., St. Louis, Mo. Ice-cream. No. 134,869; Sept. 14; v. 278; p. 346.

Woodward, Thad. Lincoln, Nebr. Remedy for catarrh. No. 130,001; Sept. 14; v. 278; p. 335.

Zonta Tire & Rubber Company, Sioux City, Iowa. Fabric and cord tire-casings and inner tubes. No. 132,282; Sept. 14; v. 278; p. 337.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 14TH DAY OF SEPTEMBER, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid, Producing hydrocyanic. G. H. Buchanan. No. 1,352,655; Sept. 14; v. 278; p. 218.

Advertising device. W. B. Wheeler. No. 1,353,105; Sept. 14; v. 278; p. 307.

Aeroplane. H. L. Haskell. No. 1,352,600; Sept. 14; v. 278; p. 207.

Agricultural machine. H. J. Davis. No. 1,352,725; Sept. 14; v. 278; p. 232.

Air-compressor regulator. C. Wainwright. No. 1,353,098; Sept. 14; v. 278; p. 305.

Air-compressor, Rotary. H. O. Jackson. No. 1,352,750; Sept. 14; v. 278; p. 237.

Air-compressor, Rotary. H. O. Jackson. No. 1,352,751; Sept. 14, v. 278; p. 237.

Air-deflecting device. C. T. Myers. No. 1,352,679; Sept. 14; v. 278; p. 223.

Airplane-hangars or other large openings, Multiple sliding door for. H. A. Johnson. No. 1,352,606; Sept. 14; v. 278; p. 208.

Amusement apparatus. J. I. Holcomb and J. F. Hoke, Jr. No. 1,352,666; Sept. 14; v. 278; p. 220.

Amusement device. H. A. Silver. No. 1,352,841; Sept. 14; v. 278; p. 255.

Annealing-furnace. F. S. Kochendorfer and B. E. Balduf. No. 1,352,459; Sept. 14; v. 278; p. 178.

Attachment device, Separable. R. B. Benjamin. No. 1,352,776; Sept. 14; v. 278; p. 242.

Automobile direction-indicator. B. Carlisle. No. 1,353,023; Sept. 14; v. 278; p. 291.

Automobile gear-lock. C. G. Trosien. No. 1,353,119; Sept. 14; v. 278; p. 309.

Automobile gear-lock. C. G. Trosien. No. 1,353,120; Sept. 14; v. 278; p. 309.

Automobile-indicator. W. H. Burch. No. 1,352,874; Sept. 14; v. 278; p. 262.

Automobile mud and dust shield. O. R. Emery. No. 1,352,798; Sept. 14; v. 278; p. 247.

Automobile-signal. C. H. Felton. No. 1,352,946; Sept. 14; v. 278; p. 276.

Automobile starting system. C. B. Mills and C. E. Wilson. No. 1,352,468; Sept. 14; v. 278; p. 180.

Automobile-starter. H. C. Fentress. No. 1,352,803; Sept. 14; v. 278; p. 248.

Automobiles, Power attachment for. A. C. Beanblossom. No. 1,352,497; Sept. 14; v. 278; p. 186.

Automobile wrecking-trailer. G. H. Houck. No. 1,352,898; Sept. 14; v. 278; p. 267.

Automobiles, Power plant for. N. B. Wales. No. 1,353,099; Sept. 14; v. 278; p. 306.

Autos and trailers, Disk-flange attachment to. M. R. Thompson. No. 1,352,561; Sept. 14; v. 278; p. 199.

Auxiliary frame and spring attachment. J. B. Pospeshil. No. 1,352,625; Sept. 14; v. 278; p. 211.

Aviation-bombs, Fuse for. E. Schneider. No. 1,352,542; Sept. 14; v. 278; p. 195.

Baling-presses, Feeding apparatus for. T. R. Cameron. No. 1,352,785; Sept. 14; v. 278; p. 244.

Banana heater and ripener. A. L. Frankelberger. (Reissue.) No. 14,948; Sept. 14; v. 278; p. 312.

Banjo. N. Brown. No. 1,352,654; Sept. 14; v. 278; p. 218.

Batteries, Terminal structure for electric. P. E. Norris. No. 1,352,619; Sept. 14; v. 278; p. 210.

Bearings, Ball retainer and separator for thrust-. H. B. Kelper. No. 1,353,044; Sept. 14; v. 278; p. 295.

Bed, Folding. H. J. Meyers. No. 1,352,909; Sept. 14; v. 278; p. 269.

Bed, Folding. R. B. Page. No. 1,352,525; Sept. 14; v. 278; p. 191.

Bed, Sofa-. J. J. Gruenfeld, Jr. No. 1,352,806; Sept. 14; v. 278; p. 229.

Beef-splitting machine. D. L. Appelberry. No. 1,353,013; Sept. 14; v. 278; p. 289.

Belt-conveyer. C. S. Wray. No. 1,353,008; Sept. 14; v. 278; p. 288.

Belt-driving. K. E. A. Granstedt. No. 1,352,511; Sept. 14; v. 278; p. 189.

Beverage-dispensing apparatus, Portable. D. Richardson and C. N. Jacoby. No. 1,352,475; Sept. 14; v. 278; p. 182.

Beverage-preparing machine. E. C. Dennert. No. 1,352,435; Sept. 14; v. 278; p. 173.

Bicycle-pedals, Repair of. J. Glanz. No. 1,352,445; Sept. 14; v. 278; p. 175.

Board: *See*—
Game-board. Ironing-board.

Bodies, Forming composite. D. A. Dickey. No. 1,352,436; Sept. 14; v. 278; p. 174.

Boiler: *See*—
Combination-boiler.

Boiler. M. Folkush. No. 1,352,505; Sept. 14; v. 278; p. 187.

Book, Pass-. T. P. Martin, Jr. No. 1,352,907; Sept. 14; v. 278; p. 269.

Boots and shoes, Making. H. C. Egerton. No. 1,352,738; Sept. 14; v. 278; p. 234.

Bottle-closure. C. E. Blanchard. No. 1,352,650; Sept. 14; v. 278; p. 217.

Bottle-stopper protector and supporter. T. A. Johnson. No. 1,352,967; Sept. 14; v. 278; p. 280.

Bottle, Vacuum-. H. M. Smith. No. 1,352,844; Sept. 14; v. 278; p. 256.

Bow-guide. H. F. Fisher. No. 1,353,036; Sept. 14; v. 278; p. 293.

Box: *See*—
Cigarette-box. Valve-stem stuffing-box.
Coil-box.

Box, Collapsible berry-. C. W. Robinson. No. 1,352,833; Sept. 14; v. 278; p. 254.

Box-press. W. V. Hart. No. 1,352,749; Sept. 14; v. 278; p. 237.

Brace: *See*—
Mud-guard brace.

Brake: *See*—
Railway-brake. Window-sash brake.
Railway-train brake.

Brake-beams, Adjustable third or fourth point support for. C. H. Williams. No. 1,352,570; Sept. 14; v. 278; p. 201.

Brassière. W. Kops. No. 1,352,974; Sept. 14; v. 278; p. 282.

Breakwater. G. Uriarte. No. 1,353,001; Sept. 14; v. 278; p. 287.

Bridge-articulator, Anatomical. L. Greenfield. No. 1,353,039; Sept. 14; v. 278; p. 294.

Bridge, Lift-. A. A. Henderson. No. 1,352,450; Sept. 14; v. 278; p. 176.

Brushing-machine. S. Radimak. No. 1,352,527; Sept. 14; v. 278; p. 192.

Buckle, Belt-. D. S. Bears. No. 1,352,937; Sept. 14; v. 278; p. 274.

Buckle for leaf-springs, Wedge-lock. N. Waterhouse. No. 1,352,488; Sept. 14; v. 278; p. 184.

Building structure. D. J. Murnane. No. 1,352,678; Sept. 14; v. 278; p. 223.

Burner: *See*—
Hydrocarbon-burner. Liquid-fuel burner.

Button, Collar-. A. Lentatz. No. 1,352,754; Sept. 14; v. 278; p. 238.

Button, Separable cuff-. E. J. Swedlund. No. 1,353,085; Sept. 14; v. 278; p. 303.

Button, Separable cuff-. F. R. Maffeson. No. 1,352,908; Sept. 14; v. 278; p. 269.

Cabinet, Record-. O. L. Ostendorf. No. 1,352,684; Sept. 14; v. 278; p. 224.

Cabinet, Stove-. T. Wone. No. 1,353,121; Sept. 14; v. 278; p. 309.

Cabinet, Revolving housekeeping-. J. F. Baymiller. No. 1,352,496; Sept. 14; v. 278; p. 186.

Cable-hanger. C. G. Sinclair, Jr. No. 1,352,549; Sept. 14; v. 278; p. 196.

Calculators, Ribbon-shifting means for. W. Fuhrmann. No. 1,352,593; Sept. 14; v. 278; p. 305.

Camera, Reflex. V. M. Harris. No. 1,352,449; Sept. 14; v. 278; p. 176.

Cameras, Double-exposure mechanism for motion-picture. J. E. Leonard. No. 1,352,668; Sept. 14; v. 278; p. 220.

Can: *See*—
Garbage-can.

Can-distributing device. C. H. Ayars. No. 1,352,718; Sept. 14; v. 278; p. 230.

Can handle, Milk-. P. Lambrakos. No. 1,353,050; Sept. 14; v. 278; p. 296.

Can-tops, Machine for applying compound to. N. Troyer. No. 1,352,641; Sept. 14; v. 278; p. 215.

Cans, Bail-ear fastening for. H. K. Smith. No. 1,353,080; Sept. 14; v. 278; p. 302.

Candy, Mechanism for guiding and spacing. C. H. Jones. No. 1,342,607; Sept. 14; v. 278; p. 208.
Cannon, Gas-. J. H. Wily. No. 1,352,715; Sept. 14; v. 278; p. 230.
Cap. J. Josepha. No. 1,352,968; Sept. 14; v. 278; p. 281.
Car construction, Tank-. B. D. Lockwood. No. 1,352,981; Sept. 14; v. 278; p. 283.
Car-coupling. F. Kalata. No. 1,352,516; Sept. 14; v. 278; p. 190.
Car, Refrigerator-. H. R. Ross. No. 1,352,532; Sept. 14; v. 278; p. 193.
Car unloader, Box-. R. W. Kaltenbach. No. 1,352,608; Sept. 14; v. 278; p. 208.
Cars, Doorway construction for. A. N. Warfield. No. 1,353,102; Sept. 14; v. 278; p. 306.
Cars, Grain-door for. E. Posson. No. 1,352,692; Sept. 14; v. 278; p. 225.
Carbureter. C. L. Rayfield. No. 1,352,628; Sept. 14; v. 278; p. 212.
Carbureter-heater. C. E. Warwick. No. 1,352,854; Sept. 14; v. 278; p. 258.
Carriage and sleigh, Combination baby-. J. Rowland. No. 1,353,071; Sept. 14; v. 278; p. 300.
Carrier: *See*—
Tire-carrier.
Woven carrier.
Carrier. J. Kalix. No. 1,352,969; Sept. 14; v. 278; p. 281.
Carton. J. P. Markert. No. 1,352,759; Sept. 14; v. 278; p. 239.
Cartridge. J. T. Thompson. No. 1,353,118; Sept. 14; v. 278; p. 309.
Cartridge-magazine. J. T. Thompson and H. H. Cummings. No. 1,353,092; Sept. 14; v. 278; p. 304.
Casing-head. E. Arbon. No. 1,352,423; Sept. 14; v. 278; p. 171.
Cassette. H. P. MacLagan. No. 1,352,615; Sept. 14; v. 278; p. 209.
Casting device. J. F. McMath. No. 1,352,523; Sept. 14; v. 278; p. 191.
Centrifugal machine and disintegrating material. R. P. Perry. No. 1,352,623; Sept. 14; v. 278; p. 211.
Chair: *See*—
Reversible chair.
Chalk-trough. C. F. Berger. No. 1,352,720; Sept. 14; v. 278; p. 231.
Chalk-trough, Combination. C. F. Berger. No. 1,352,721; Sept. 14; v. 278; p. 231.
Check-protector. H. J. Plant. No. 1,352,689; Sept. 14; v. 278; p. 224.
Check-protector. H. J. Plant. No. 1,352,691; Sept. 14; v. 278; p. 225.
Chuck. C. E. Gilbert. No. 1,352,951; Sept. 14; v. 278; p. 277.
Cigarette-box. J. J. Langan. No. 1,352,613; Sept. 14; v. 278; p. 209.
Circuit-closer, Weight-operated. C. H. McNeil. No. 1,353,057; Sept. 14; v. 278; p. 298.
Circuit, Four-wire. J. Mills. No. 1,352,828; Sept. 14; v. 278; p. 253.
Circuit interrupter. W. O. Lum. No. 1,352,462; Sept. 14; v. 278; p. 179.
Circuit-interrupting system. S. Q. Hayes. No. 1,352,451; Sept. 14; v. 278; p. 176.
Clamp: *See*—
Double clamp.
Electrical clamp.
Clamp. O. H. Hunt. No. 1,352,810; Sept. 14; v. 278; p. 250.
Clamp and fastener, Combined. C. C. Salmons and J. Mahoney. No. 1,352,919; Sept. 14; v. 278; p. 271.
Clasp: *See*—
Jewelry-clasp.
Clay products, Handling. J. P. B. Fiske. No. 1,352,947; Sept. 14; v. 278; p. 276.
Cleaner: *See*—
Roller-cleaner.
Street-cleaner.
Vacuum-cleaner.
Windshield-cleaner.
Clip: *See*—
Spacing-clip.
Swingletree-clip.
Cloth-cutter, Electrical. F. M. Laserson. No. 1,353,052; Sept. 14; v. 278; p. 297.
Clothesline-reel. J. Sardo. No. 1,352,994; Sept. 14; v. 278; p. 286.
Clutch and brake mechanism. S. A. Dobyne. No. 1,352,585; Sept. 14; v. 278; p. 204.
Coal, Coking. A. Roberts. No. 1,352,696; Sept. 14; v. 278; p. 226.
Coal-crusher. M. A. Kendall. No. 1,352,609; Sept. 14; v. 278; p. 208.
Coating and stroking or decorating machine. P. Panoulias. No. 1,352,686; Sept. 14; v. 278; p. 224.
Coil-box. V. A. Lingle. No. 1,353,116; Sept. 14; v. 278; p. 309.
Coil feeding and cutting mechanism. F. H. Sleeper and W. H. Blount. No. 1,352,842; Sept. 14; v. 278; p. 256.
Collar. J. M. van Heusen. No. 1,352,563; Sept. 14; v. 278; p. 200.
Collar. J. M. van Heusen. No. 1,352,705; Sept. 14; v. 278; p. 228.
Collar. J. M. van Heusen. No. 1,352,706; Sept. 14; v. 278; p. 228.
Combination-boiler. E. M. Martin. No. 1,352,824; Sept. 14; v. 278; p. 252.
Combination-lock. F. C. Vartuli. No. 1,352,771; Sept. 14; v. 278; p. 241.
Commutator-grinder. F. E. Fuller. No. 1,352,805; Sept. 14; v. 278; p. 249.
Composite sheet. E. H. Angier. No. 1,352,774; Sept. 14; v. 278; p. 242.
Concrete block construction. H. M. Knight. No. 1,353,046; Sept. 14; v. 278; p. 296.
Condenser. R. N. Ehrhart. No. 1,352,438; Sept. 14; v. 278; p. 174.
Condensing apparatus. R. N. Ehrhart. No. 1,352,437; Sept. 14; v. 278; p. 174.
Confections, Machine for wrapping. J. P. Remington. No. 1,352,629; Sept. 14; v. 278; p. 212.
Connecting-block and fuse-block, Combined. R. B. Benjamin. No. 1,352,778; Sept. 14; v. 278; p. 243.
Control apparatus. A. J. Hall. No. 1,352,447; Sept. 14; v. 278; p. 176.
Control apparatus. A. J. Hall and C. C. Whittaker. No. 1,352,448; Sept. 14; v. 278; p. 176.
Control apparatus. W. H. Smith. No. 1,352,483; Sept. 14; v. 278; p. 183.
Control system. A. H. Candee. No. 1,352,427; Sept. 14; v. 278; p. 172.
Control system. T. H. Schoepf. No. 1,352,480; Sept. 14; v. 278; p. 183.
Conveying mechanism. J. W. Sheperdson. No. 1,352,766; Sept. 14; v. 278; p. 240.
Conveyer, Progressive manufacture. E. B. Thurston. No. 1,352,928; Sept. 14; v. 278; p. 272.
Copper and other metals, Process and apparatus for reclaiming and refining. A. R. Partridge. No. 1,352,912; Sept. 14; v. 278; p. 270.
Corset, Maternity-. C. E. Anderson. No. 1,352,422; Sept. 14; v. 278; p. 171.
Coupling: *See*—
Car-coupling.
Flexible coupling.
Impulse-starter coupling.
Pipe-coupling.
Crane. C. A. Bingham. No. 1,352,575; Sept. 14; v. 278; p. 202.
Crank-pedal. J. Glanz. No. 1,352,446; Sept. 14; v. 278; p. 176.
Crate, Collapsible. J. J. Dahlstrom. No. 1,353,030; Sept. 14; v. 278; p. 292.
Crate, Poultry-. G. J. Genebach. No. 1,352,444; Sept. 14; v. 278; p. 175.
Creasing and slotting machine. G. W. Swift, Jr. No. 1,353,086; Sept. 14; v. 278; p. 303.
Crusher: *See*—
Coal-crusher.
Fruit-crusher.
Crushing-machine. W. Elik. No. 1,352,797; Sept. 14; v. 278; p. 247.
Cuff-link. F. S. Carr. No. 1,353,109; Sept. 14; v. 278; p. 307.
Cup: *See*—
Lubricating-cup.
Current generators, Voltage-regulator for direct and alternating. J. W. Millnor. No. 1,353,060; Sept. 14; v. 278; p. 298.
Curtain and shade support, Window. J. Krotowych. No. 1,353,122; Sept. 14; v. 278; p. 310.
Curtain, Flexible. J. Cahill. No. 1,352,656; Sept. 14; v. 278; p. 218.
Curtain-hanger. J. H. Boye. No. 1,352,652; Sept. 14; v. 278; p. 217.
Curtain-rod support. A. Schmidt. No. 1,352,479; Sept. 14; v. 278; p. 183.
Curtain-stretcher. S. and J. Pasternak. No. 1,353,067; Sept. 14; v. 278; p. 300.
Cushions, Spring structure for. P. I. Langlyke. No. 1,352,977; Sept. 14; v. 278; p. 282.
Cut-off, Thermostatic. A. U. Sarnmark. No. 1,352,538; Sept. 14; v. 278; p. 194.
Cutter: *See*—
Cloth-cutter.
Cutter-grinding and similar operations, Fixture for use in. W. B. Tulek. No. 1,352,703; Sept. 14; v. 278; p. 227.
Cultivator. A. O. Cox and P. Sager. No. 1,352,783; Sept. 14; v. 278; p. 244.
Cycle, Tread-. W. R. Young. No. 1,353,011; Sept. 14; v. 278; p. 289.
Dental mirror and syringe. J. E. Craig. No. 1,352,789; Sept. 14; v. 278; p. 245.
Dental plates, Suction mechanism for. J. Lehner. No. 1,352,614; Sept. 14; v. 278; p. 209.
Diaphragm for electrochemical and electro-osmotic purposes. B. Schwerin. No. 1,352,763; Sept. 14, v. 278; p. 240.
Die-head. W. C. Marks. No. 1,352,823; Sept. 14; v. 278; p. 252.
Differential mechanism. F. V. Ebertz. No. 1,352,590; Sept. 14; v. 278; p. 205.
Direct-current machine. A. Scherbius. No. 1,352,920; Sept. 14; v. 278; p. 271.
Direction-indicator. S. Nakasora. No. 1,353,128; Sept. 14; v. 278; p. 311.
Dirigible light. L. I. and M. Z. Ryder. No. 1,352,993; Sept. 14; v. 278; p. 286.
Dismountable house. A. Roure. No. 1,352,991; Sept. 14; v. 278; p. 285.
Dispensing device. J. H. Boye. No. 1,352,425. Sept. 14; v. 278; p. 172.
Doll-eye-painting machine. S. Radimak. No. 1,352,528; Sept. 14; v. 278; p. 192.
Doll, Walking. C. F. Arnold. No. 1,352,933; Sept. 14; v. 278; p. 273.

Door-controlling apparatus. F. O. Liming. No. 1,352,980; Sept. 14; v. 278; p. 283.
Door-lock. W. Lougheed. No. 1,352,819; Sept. 14; v. 278; p. 251.
Door-stop. J. M. Guynn. No. 1,352,456; Sept. 14; v. 278; p. 178.
Double clamp. G. T. Benton. No. 1,352,647; Sept. 14; v. 278; p. 216.
Dough-divider. W. B. Abrams and R. I. Gay. No. 1,352,424; Sept. 14; v. 278; p. 171.
Doughnuts, cakes, &c., Machine for cutting. A. A. Smith. No. 1,353,077; Sept. 14; v. 278; p. 302.
Dovetailing-machine. O. Onsrud. No. 1,352,620; Sept. 14; v. 278; p. 210.
Draft appliance. F. J. Trumpour. No. 1,353,094; Sept. 14; v. 278; p. 304.
Draft-gage. A. T. Baldwin. No. 1,352,719; Sept. 14; v. 278; p. 231.
Draft-regulator. E. McKiernan. No. 1,352,670; Sept. 14 v. 278; p. 221.
Draft-rigging. A. N. Warfield. No. 1,353,101; Sept. 14; v. 278; p. 306.
Drawer-locking device. J. S. Kramer. No. 1,352,902; Sept. 14; v. 278; p. 267.
Drawer-stabilizer. W. F. Streich. No. 1,352,924; Sept. 14; v. 278; p. 272.
Dredge-tumbler. M. L. Summers. No. 1,352,997; Sept. 14; v. 278; p. 286.
Drill: *See*—
Rock-drill.
Seed-drill.
Drilling, reaming, and countersinking, Apparatus for. O. F. Baltzley. No. 1,352,646; Sept. 14; v. 135; p. 216.
Dynamos, Arrangement for automatically regulating the voltage of. L. Schön. No. 1,352,839; Sept. 14; v. 278; p. 255.
Egg-candler. C. T. McLellan. No. 1,352,822; Sept. 14; v. 278; p. 252.
Electric-arc furnace. F. von Schlegell. No. 1,352,541; Sept. 14; v. 278; p. 194.
Electric battery and producing same, Oil-protected. O. E. Ruhoff. No. 1,352,834; Sept. 14; v. 278; p. 254.
Electric generator, Wind-wheel. A. H. Heyroth. No. 1,352,960; Sept. 14; v. 278; p. 278.
Electric meter. T. T. Varley. No. 1,352,564; Sept. 14; v. 278; p. 200.
Electric switch. C. J. Klein. No. 1,353,124; Sept. 14; v. 278; p. 310.
Electric switch. E. B. Thurston. No. 1,352,927; Sept. 14; v. 278; p. 272.
Electric switch. H. F. Irrgang. No. 1,352,966; Sept. 14; v. 278; p. 280.
Electric-switch mechanism. H. Hubbell. No. 1,352,604; Sept. 14; v. 278; p. 207.
Electrical circuit-breaker, Automatic. H. E. Wadsworth and W. B. Ensign. No. 1,352,707; Sept. 14; v. 278; p. 228.
Electrical clamp. J. P. B. Fiske. No. 1,352,948; Sept. 14; v. 278; p. 276.
Electrical connector. V. H. Broc. No. 1,352,499; Sept. 14; v. 278; p. 187.
Electrical controller. W. H. Holder. No. 1,352,896; Sept. 14; v. 278; p. 266.
Electrical ignition system. F. Conrad. No. 1,352,432; Sept. 14; v. 278; p. 173.
Electrical ignition system. F. Conrad. No. 1,352,433; Sept. 14; v. 278; p. 173.
Electrode-holder. W. E. Clements. No. 1,353,028; Sept. 14; v. 278; p. 292.
Electromagnet, Alternating-current. E. B. Thurston. No. 1,342,926; Sept. 14; v. 278; p. 272.
Elevator: *See*—
Hydraulic elevator.
Silo-elevator.
Engine: *See*—
Explosive-engine.
Internal-combustion engine.
Engine cylinders, Automatic graphite lubricating system for internal-combustion-. J. D. Loog. No. 1,353,055; Sept. 14; v. 278; p. 297.
Engine gage, Gas-. M. C. Schweinert. No. 1,352,697; Sept. 14; v. 278; p. 226.
Engine reverse-gear. E. Zbinden. No. 1,352,717; Sept. 14; v. 278; p. 230.
Engines, Air-control device for. L. W. Griswold. No. 1,352,509; Sept. 14; v. 278; p. 188.
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Kerosene. Petroleum Products Co. No. 134,761; Sept. 14; v. 278; p. 359.
Kimonos. George Borgfeldt & Co. No. 134,600; Sept. 14; v. 278; p. 354.
Knit underwear. S. D. Bausher. No. 134,588; Sept. 14; v. 278; p. 353.
Lamps, candelabra, candlesticks, electroliers, and pocket-lights, Electric. Tiffany and Company. Nos. 134,828–9; Sept. 14; v. 278; p. 361.
Leather. A. J. Bates & Company. No. 134,586; Sept. 14; v. 278; p. 353.
Leather. Merchant Lovcys Leather Co. No. 134,741; Sept. 14; v. 278; p. 358.
Leather goods. The Deco Co. No. 134,623; Sept. 14; v. 278; p. 354.
Liniment. G. H. Wood. No. 134,853; Sept. 14; v. 278; p. 362.
Liniments, cough medicines, tonics, &c. The Polonia Drug Company. No. 134,767; Sept. 14; v. 278; p. 359.
Lotion, Foot. Gary Laboratories Company. No. 134,654; Sept. 14; v. 278; p. 355.
Lunch-room equipments. Industrial. Chicago Hardware Foundry Company. No. 134,612; Sept. 14; v. 278; p. 354.
Lye, Powdered. The Sinclair Manufacturing Company. Nos. 134,805–6; Sept. 14; v. 278; p. 360.
Magazine, Monthly. Columbia Graphophone Company. No. 134,618; Sept. 14; v. 278; p. 354.
Magazine, Monthly. The Pierce-Arrow Motor Car Company. No. 134,763; Sept. 14; v. 278; p. 359.
Magnetos and parts thereof and electrical condensers. Apollo Magneto Corporation. No. 134,573; Sept. 14; v. 278; p. 353.
Mattresses. Salisbury & Satterlee Co. No. 134,790; Sept. 14; v. 278; p. 359.
Mattresses. Silkheart Mattress Co. No. 134,804; Sept. 14; v. 278; p. 360.
Mattresses, Felt. The Mebane Bedding Co. No. 134,736; Sept. 14; v. 278; p. 358.
Mattresses, metal beds, couches, &c. Salisbury & Satterlee Co. No. 134,791; Sept. 14; v. 278; p. 359.
Mats and runners, Leather table. Excello Mat Company. No. 134,640; Sept. 14; v. 278; p. 355.
Medicinal compound for the liver. C. E. Evans. No. 134,636; Sept. 14; v. 278; p. 355.
Medicinal preparation. C. L. Heffner. No. 134,679; Sept. 14; v. 278; p. 356.
Medicinal preparation externally used. Fitzgerald & Perry. No. 134,648; Sept. 14; v. 278; p. 355.
Medicinal treatment for colds and grippe. R. W. Murray. No. 134,749; Sept. 14; v. 278; p. 358.
Medicine for ground-itch on children and sorehead on chickens. R. Allen. No. 134,563; Sept. 14; v. 278; p. 353.
Medicine for headache, neuritis, colds, &c. H. G. Wilson. No. 134,849; Sept. 14; v. 278; p. 361.
Medicine for the treatment of mumps, measles, cholera, and liver troubles in hogs. Sons and Daughters of Levi. No. 134,817; Sept. 14; v. 278; p. 360.
Medicine for tick-fever in animals. Lone Prairie Remedies Co. No. 134,719; Sept. 14; v. 278; p. 357.
Medicine used in the treatment of chills, fever, malaria, &c. F. B. McCrackin. No. 134,725; Sept. 14; v. 278; p. 358.
Medicine used in the treatment of tuberculosis. M. Hall. No. 134,674; Sept. 14; v. 278; p. 356.
Medicine for stomach, bowel, liver, and similar troubles for the blood. The Atlantic Remedies Co. No. 134,580; Sept. 14; v. 278; p. 353.
Medicines for the prevention of infections of the urinary tract. E. Fougera & Co. No. 134,650; Sept. 14; v. 278; p. 355.

Mirrors and picture-frames, Hand and bonnet. Samstag & Hilder Bros. No. 134,798; Sept. 14; v. 278; p. 360.
Mirrors, Hand, wall, and stand. The Ames Bonner Company. No. 134,569; Sept. 14; v. 278; p. 353.
Musical-instrument strings. Armour and Company. Nos. 134,575–8; Sept. 14; v. 278; p. 353.
Musical instruments. New York Band Instr. Co. No. 134,752; Sept. 14; v. 278; p. 358.
Musical instruments of the bugle and trumpet type, Wind. C. G. Conn, Ltd. No. 134,619; Sept. 14; v. 278; p. 354.
Music-playing instruments and music-rolls therefor, Mechanical. The Wilcox & White Co. No. 134,847; Sept. 14; v. 278; p. 361.
Newspaper-section. Evening News Publishing Company. No. 134,638; Sept. 14; v. 278; p. 355.
Newspaper, Weekly. Catholic News Publishing Company. No. 134,607; Sept. 14; v. 278; p. 354.
Newspapers. The Dallas Saturday Night Company. No. 134,622; Sept. 14; v. 278; p. 354.
Notions. The Narrow Fabric Co. No. 134,750; Sept. 14; v. 278; p. 358.
Oil, Lubricating. Charleston Oil Company. No. 134,610; Sept. 14; v. 278; p. 354.
Oil substitute, Linseed. Douglas Paint Oil Co. No. 134,633; Sept. 14; v. 278; p. 355.
Oil to be used in emulsifying raw oils, Sulfureted. E. F. Kick. No. 134,700; Sept. 14; v. 278; p. 357.
Oils and greases, Lubricating. United Products & Sales Corporation. No. 134,836; Sept. 14; v. 278; p. 361.
Oils and greases, Lubricating. W. B. Dick & Company. No. 134,630; Sept. 14; v. 278; p. 355.
Ointment. E. H. Koss. No. 134,704; Sept. 14; v. 278; p. 357.
Ointment and tablets for the treatment of colds, influenza, &c. Fesler & Company. No. 134,646; Sept. 14; v. 278; p. 355.
Ointment, Antiseptic and healing. H. T. Melhuish. No. 134,740; Sept. 14; v. 278; p. 358.
Overalls. Rosenbaum Brothers. No. 134,785; Sept. 14; v. 278; p. 359.
Pads, Forehead and under-chin. Radlor Co. Ltd. of London. No. 134,776; Sept. 14; v. 278; p. 359.
Paint, Cold-water. A. E. Maire. No. 134,729; Sept. 14; v. 278; p. 358.
Paints, &c., Dry and water paste. A. B. Ansbacher & Company, Inc. Nos. 134,571–2; Sept. 14; v. 278; p. 353.
Paints and painters' materials. The Glidden Company. Nos. 134,658–9; Sept. 14; v. 278; pp. 355–6.
Paints and painters' materials and a furniture polish. Gerstendorfer Bros. No. 134,657; Sept. 14; v. 278; p. 355.
Paints and varnishes. D. H. Brandes. No. 134,601; Sept. 14; v. 278; p. 354.
Paper boxes and cartons. P. Zalkind. No. 134,855; Sept. 14; v. 278; p. 362.
Paper-pulp. The Procter and Gamble Company. No. 134,772; Sept. 14; v. 278; p. 359.
Paper, Waterproof wrapping and lining. Angier Mills. No. 134,745; Sept. 14; v. 278; p. 358.
Paper, Writing. Fox River Paper Company. No. 134,859; Sept. 14; v. 278; p. 363.
Paste for skin irritations, bites, and poisonings. F. W. Schoonmaker, Incorporated. No. 134,798; Sept. 14; v. 278; p. 360.
Pearls. Monroe Block & Co. No. 134,597; Sept. 14; v. 278; p. 354.
Perfume, toilet water, sachet powder, &c. Richard Hudnut. No. 134,684; Sept. 14; v. 278; p. 356.
Periodicals, Semi-annual. R. T. Hardy. No. 134,676; Sept. 14; v. 278; p. 356.
Phonograph-cabinets. Grimwood Bros. No. 134,671; Sept. 14; v. 278; p. 356.
Phonographs. A. A. Manghisi. No. 134,732; Sept. 14; v. 278; p. 358.
Phonographs. Grand Rapids School Equipment Co. No. 134,664; Sept. 14; v. 278; p. 356.
Phonographs. Plymouth Phonograph Co. No. 134,765; Sept. 14; v. 278; p. 359.
Phonographs, records, and needles. Beacon Phonograph Company. No. 134,592; Sept. 14; v. 278; p. 354.
Physic for children. J. L. Greenbaum. No. 134,668; Sept. 14; v. 278; p. 356.
Pianofortes, grand and upright pianos, and piano-players. J. & C. Fischer. No. 134,647; Sept. 14; v. 278; p. 355.
Pianos. Horace Waters & Co. No. 134,866; Sept. 14; v. 278; p. 363.
Pianos. Paul G. Mehlin & Sons. No. 134,738; Sept. 14; v. 278; p. 358.
Pianos and piano-players. H. C. Bay Company. No. 134,589; Sept. 14; v. 278; p. 353.
Pianos and piano-players. H. C. Bay Company. Nos. 134,590–1; Sept. 14; v. 278; pp. 353–4.
Pianos, player-pianos, and piano-players. The Baldwin Company. No. 134,584; Sept. 14; v. 278; p. 352.
Pipe, wire, and nails, Iron and steel. The Youngstown Sheet & Tube Company. No. 134,868; Sept. 14; v. 278; p. 363.
Plaster of Paris for dentists' and surgeons' use in laboratory work, Non-adhesive. Newark Plaster Company. No. 134,751; Sept. 14; v. 278; p. 358.
Polish, cleaning, and preserving preparations for stoves. Russia Cement Company. No. 134,787; Sept. 14; v. 278; p. 359.
Polishing and cleaning liquid. L. A. Block. No. 134,596; Sept. 14; v. 278; p. 354.
Preparation for polishing automobiles, furniture, and stained and hardwood floors, Waxy. A. G. Briggs. No. 134,602; Sept. 14; v. 278; p. 354.
Preparation for softening water. California Soda Products Co. No. 134,606; Sept. 14; v. 278; p. 354.
Preparation for the treatment of certain named diseases. Wright & Lawrence. No. 134,854; Sept. 14; v. 278; p. 362.
Preparation for the treatment of consumption and tuberculosis. Stanley & Griffin. No. 134,670; Sept. 14; v. 278; p. 356.
Preparation having deodorant, antiseptic, and perspiration-absorbent properties. United Drug Company. No. 134,835; Sept. 14; v. 278; p. 361.
Preparation, Liquid. The Master Builders Company. No. 134,735; Sept. 14; v. 278; p. 358.
Preparations for surface finish in the nature of a varnish, Liquid. Van Camp Hardware & Iron Company. No. 134,838; Sept. 14; v. 278; p. 361.
Prints and publications. Medici Society—American Branch. No. 134,737; Sept. 14; v. 278; p. 358.
Publications. Poor's Publishing Company. No. 134,770; Sept. 14; v. 278; p. 359.
Radio telegraph and telephone apparatus. Kilbourne & Clark Manufacturing Co. No. 134,702; Sept. 14; v. 278; p. 357.
Remedies, cough medicine, liniment, hair-tonic, Corn. J. C. Jonas. No. 134,695; Sept. 14; v. 278; p. 357.
Remedies, Laxative, medicinal. E. R. Marten. No. 134,733; Sept. 14; v. 278; p. 358.
Remedy against dandruff and falling out of hair, &c. R. M. Holquin. No. 134,681; Sept. 14; v. 278; p. 356.
Remedy to promote the growth of the hair. C. Poetzl. No. 134,766; Sept. 14; v. 278; p. 359.
Respirators, respirator masks and hoods, &c. American La France Fire Engine Co., Inc. No. 134,567; Sept. 14; v. 278; p. 353.
Roofings, Steel fire-resisting and surface. The Farm Equipment Co. No. 134,642; Sept. 14; v. 278; p. 355.
Rubber elevator-belts reinforced with fabric. The B. F. Goodrich Company. No. 134,661; Sept. 14; v. 278; p. 356.
Rubbers, Jar. Walker, Matteson Company. No. 134,842; Sept. 14; v. 278; p. 361.
Saffron. H. Schoenfeld. No. 134,797; Sept. 14; v. 278; p. 360.
Salve and a liniment. A. C. Chapa. No. 134,609; Sept. 14; v. 278; p. 354.
Salve, Cold, croup, and pneumonia. Hunt Chemical Company. No. 134,686; Sept. 14; v. 278; p. 356.
Sales-counters, display racks and cabinets, &c. Bake-Rite Mfg. Company. No. 134,583; Sept. 14; v. 278; p. 353.
Salve for bruises, pimples, eczema, and all skin diseases. T. Safronik. No. 134,789; Sept. 14; v. 278; p. 359.
Salve, Stainless croup and pneumonia. Hunt Chemical Company. No. 134,685; Sept. 14; v. 278; p. 356.
Sardines. Lawrence Canning Co. No. 134,710; Sept. 14; v. 278; p. 357.
Seed, Tobacco. W. S. Judy. No. 134,696; Sept. 14; v. 278; p. 357.
Seeds. Stanford Seed Co. No. 134,820; Sept. 14; v. 278; p. 360.
Seeds, Agricultural. Randall-McLoughlin Co. No. 134,777; Sept. 14; v. 278; p. 359.
Seeds, Garden, field, and flower. John A. Salzer Seed Co. No. 134,792; Sept. 14; v. 278; p. 360.
Shirts, and soft collars, Dress and negligée. E. L. Barton. No. 134,585; Sept. 14; v. 278; p. 353.
Shirts, Dress, negligée, and work. Samuel London & Co. Inc. No. 134,718; Sept. 14; v. 278; p. 357.
Shirts, (dress, negligée, and work,) collars, and cuffs. The Quaker City Shirt Manufacturing Company. No. 134,775; Sept. 14; v. 278; p. 359.
Shoe-lasts. The Crawford McGregor & Canby Company. No. 134,621; Sept. 14; v. 278; p. 354.
Shoes. The Wise, Shaw & Feder Company. No. 134,852; Sept. 14; v. 278; p. 362.
Shoes. The W. E. Tuttle Co. No. 134,833; Sept. 14; v. 278; p. 361.
Shoes, Athletic. Wisconsin Shoe Company. No. 134,851; Sept. 14; v. 278; p. 361.
Shoes, Leather, &c. H. C. Blazer. No. 134,643; Sept. 14; v. 278; p. 355.
Silks, satins, velvets, broadcloths, serge in the piece. J. Metzler. No. 134,742; Sept. 14; v. 278; p. 358.
Sloris, Pantelis A., New York, N. Y. Weekly newspapers. No. 134,807; Sept. 14; v. 278; p. 360.
Soap. A. Kasser. No. 134,697; Sept. 14; v. 278; p. 357.
Soap, B. Altman & Co. No. 134,565; Sept. 14; v. 278; p. 353.
Soap, B. Parker. No. 134,760; Sept 14, v. 278; p. 359.
Soap. The Procter and Gamble Company. No. 134,773; Sept. 14; v. 278; p. 359.
Soap, Hand. The Cope-Walton Co. No. 134,620; Sept. 14; v. 278; p. 354.
Soap, Paste. The Ohio Varnish Company. No. 134,755; Sept. 14; v. 278; p. 358.
Soap, Toilet and shaving. Solon Palmer. No. 134,757; Sept. 14; v. 278; p. 358.
Songs, sheet-music, and book of songs, Printed. Wallace & Freed, Incorporated. No. 134,843; Sept. 14; v. 278; p. 361.

Spark-plug intensifiers. J. F. Wing. No. 134,850; Sept. 14; v. 278; p. 361.
Stalls and doors and shower bath partitions, Toilet. Betz Bros., Inc. No. 134,857; Sept. 14; v. 278; p. 363.
Staves. Foxley Stave & Lumber Co., Ltd. No. 134,860; Sept. 14; v. 278; p. 363.
Stove-polish. Hoosier Chemical Company. No. 134,682; Sept. 14; v. 278; p. 356.
Suits and overcoats, Men's and young men's. S. Bacharach and Company. No. 134,582; Sept. 14; v. 278; p. 353.
Suppositories, Rectal. J. B. Gooken. No. 134,663; Sept. 14; v. 278; p. 356.
Syrup and beverage made therefrom, non-alcoholic maltless. Richardson Corporation. No. 134,781; Sept. 14; v. 278; p. 359.
Tables, Serving-. The John Van Range Co. No. 134,839; Sept. 14; v. 278; p. 361.
Tablets and tonic, Laxative. Retona Products Company. No. 134,779; Sept. 14; v. 278; p. 359.
Tablets, Laxative. G. G. Dillow. No. 134,631; Sept. 14; v. 278; p. 355.
Tanks, tool-chests, and canteens for automobiles. S. C. Pandolfo. No. 134,759; Sept. 14; v. 278; p. 3.95
Therapeutic purposes, Apparatus for. McIntosh Battery and Optical Co. No. 134,726; Sept. 14; v. 274; p. 358.
Thread and yarn. H. E. Locke & Company. No 134,716; Sept. 14; v. 278; p. 357.
Tire patches and inner liners, Automobile-. E. M. Steell. No. 134,822; Sept. 14; v. 278; p. 361.
Tire-repair outfits. The Palmer Tire Company. No. 134,758; Sept. 14; v. 278; p. 358.
Tires and tubes for vehicles, Rubber or rubber and fabric. McClaren Rubber Company. No. 134,724; Sept. 14; v. 278; p. 357.
Tires, Rubber. Gates Rubber Company. No. 134,655; Sept. 14; v. 278; p. 355.
Tires, Rubber. Liberty Steel Products Company. No. 134,712; Sept. 14; v. 278; p. 357.
Tires, tubes, and casing-patch. W. L. Tedford. No. 134,827; Sept. 14. v. 278; p. 361.
Tobacco, cigars, and cigarettes, Smoking and chewing. J. Christoforides. No. 134,613; Sept. 14; v. 278; p. 354.
Tobacco, Smoking-. United Drug Company. No. 134,834; Sept. 14; v. 278; p. 361.
Toilet preparations. Druggists Concentrates Co. No. 134,635; Sept. 14; v. 278; p. 355.
Toilet preparations. Lazell Perfumer. No. 134,711; Sept. 14; v. 278; p. 357.
Toilet preparations. Meyer Brothers Drug Company. No. 134,743; Sept. 14; v. 278; p. 358.
Toilet preparations. The Lustr-ite Corporation. No. 134,722; Sept. 14; v. 278. p. 357.
Tonic for aiding the digestive organs and improving the appetite. W. J. Hurley. No. 134,688; Sept. 14; v. 278; p. 356.
Tonic for the bowel action and improving the digestion. W. J. Hurley. No. 134,687; Sept. 14; v. 278; p. 356.
Tooth-paste. The Dentocide Chemical Co. No. 134,627; Sept. 14; v. 278; p. 355.
Toy airplanes. Lawrence Airplane Model and Supply Company. No. 134,709; Sept. 14; v. 278; p. 357.
Toy building-blocks. George Borgfeldt & Co. No. 134,599; Sept. 14; v. 278; p. 354.
Trestles. The Safety Equipment Company. No. 134,788; Sept. 14; v. 278; p. 359.
Trucks, Motor-. All-American Truck Company. No. 134,564; Sept. 14; v. 278; p. 353.
Trucks, Motor-. Indiana Truck Corporation. No. 134,691; Sept. 14; v. 278; p. 356.
Trucks, wagons, carts, drays, and vehicles, Automobile-. The O. Armleder Co. No. 134,574; Sept. 14; v. 278; p. 353.
Trunks, suitcases, traveling-bags, and handbags. Rogers & Madison Trunk Corporation. No. 134,784; Sept. 14; v. 278; p. 359.
Trunks, traveling-bags, suitcases, and brief-cases. Rice-Stix Goods Company. No. 134,780; Sept. 14; v. 278; p. 359.
Typewriting machine and parts. Underwood Typewriter Company. No. 134,865; Sept. 14; v. 278; p. 363.
Undergarments, Children's and misses'. Fair Maid Undergarment Co., The. No. 134,641; Sept. 14; v. 278; p. 355.
Underwear for men and women. Hope Knitting Company. No. 134,683; Sept. 14; v. 278; p. 356.
Underwear for men and women. Watts, Ritter & Company. No. 134,846; Sept. 14; v. 278; p. 361.
Underwear, Men's and boy's athletic. Cohn, Goldwater Company. No. 134,617; Sept. 14; v. 278; p. 354.
Vermifuge and remedies for indigestion, biliousness, colds, &c. Dr. J. F. True & Co. No. 134,832; Sept. 14; v. 278; p. 361.
Waists and blouses, Ladies'. A. R. Haas. No. 134,672; Sept. 14; v. 278; p. 356.
Waists for outer wear, Ladies' and misses'. The Arrow Brand Hemstitching & Tucking Co. No. 134,579; Sept. 14; v. 278; p. 353.
Water-heaters, &c., Gas, gasolene, and kerosene. The Sands Manufacturing Company. No. 134,794; Sept. 14; v. 278; p. 360.
Waterproof automobile textile material, &c. The W. J. Donnelly Company. No. 134,632; Sept. 14; v. 278; p. 355.
Waterproofing and preserving automobile-tops, &c., Preparation for. W. B. Price. No. 134,771; Sept. 14; v. 278; p. 359.
Wardrobes, Folding. Closgard Wardrobe Company. No. 134,616; Sept. 14; v. 278; p. 354.
Watches, watch-movements, watch-cases, and parts thereof. American Swiss Watch Co. No. 134,568; Sept. 14; v. 278; p. 353.
Wire and particularly magnet-wire. The Toledo Enameled Wire Products Co. No. 134,830; Sept. 14; v. 278; p. 361.
Wreath, Floral. G. L. Straub. No. 134,824; Sept. 14; v. 278; p. 361.
X-ray apparatus. J. J. Lowe. No. 134,721; Sept. 14; v. 278; p. 357.

ALPHABETICAL LIST OF LABELS.

"Bird Design." (For Cartons Containing Hairpins.) Sterling Pin Company. No. 22,137; Sept. 14; v. 278; p. 366.
"Black-Iron." (For Stove-Polishes.) Merrimac Packing Co. No. 22,126; Sept. 14; v. 278; p. 365.
"Bosack's Pelinko Horke Vino." (For a Medicinal Tonic.) Bosack, J. H., Mfg. Co. No. 22,100; Sept. 14; v. 278; p. 365.
"Chocolate Covered Cherries." (For Boxes Containing Chocolate-Covered Cherries.) Milwaukee Paper Box Company. No. 22,130; Sept. 14; v. 278; p. 365.
"Chocolate Covered Nougats." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,128; Sept. 14; v. 278; p. 365.
"Cowhide." (For Overalls.) B. Laytin. No. 22,113; Sept. 14; v. 278; p. 365.
"Cuban Grown." (For Cigars.) J. R. Isaacson. No. 22,109; Sept. 14; v. 278; p. 365.
"Dixie Chews." (For Candy.) Newark Paraffine & Parchment Paper Co. No. 22,132; Sept. 14; v. 278; p. 365.
"Dono The Square Donut." (For Doughnuts.) Leoffler Food Products Co. Inc. No. 22,114; Sept. 14; v. 278; p. 365.
"Dr. Emerick's Peacherb Laxative Tablets." (For Medicine for Constipation.) M. L. Emerick, M. D. No. 22,105; Sept. 14; v. 278; p. 365.
"Dr. Emerick's Peacherb Tablets, Fruit Herb and Vegetable Extracts and Dr. Emerick's Famous Laxative Base." (For Constipation, Biliousness, Dyspepsia, and Autotoxemia.) M. L. Emerick, M. D. No. 22,104; Sept. 14; v. 278; p. 365.
"Garcia Silveria." (For Cigars.) The Greenmount Cigar Company. No. 22,107; Sept. 14; v. 278; p. 365.
"George's Cre-Me-Eat Complexion Cream." (For Containers for Medicated Cold-Cream.) G. A. Finkelman. No. 22,106; Sept. 14; v. 278; p. 365.
"Golden State." (For Powdered Skim-Milk.) California Central Creameries. No. 22,101; Sept. 14; v. 278; p. 365.
"Home Pride." (For Flour.) J. Rumpel. No. 22,136; Sept. 14; v. 278; p. 366
"Hunter Malt." (For a Malt-Syrup.) Olive H. Roth. No. 22,135; Sept. 14; v. 278; p. 365.
"Indian Ink." (For Ink.) The John J. Crooke Corporation. No. 22,103; Sept. 14; v. 278; p. 365.
"Magic Marvel." (For Packages Containing Washing-Powder.) L. Mitchell & Co. No. 22,131; Sept. 14; v. 278; p. 365.
"Martha Washington." (For Boxes of Stationery and Writing-Tablets.) White & Wyckoff Mfg. Co. No. 22,140; Sept. 14; v. 278; p. 366.
"My-O-My Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,127; Sept. 14; v. 278; p. 365.
"No-Leak-O Oilsealing." (For Piston-Rings.) No-Leak-O Piston Ring Company. No. 22,133; Sept. 14; v. 278; p. 365.
"Old Style Chocolate Creams." (For Boxes Containing Chocolate Creams.) Milwaukee Paper Box Company. No. 22,129; Sept. 14; v. 278; p. 365.
"Plant Life." (For a Fertilizer Compound.) R. H. Hoover. No. 22,108; Sept. 14; v. 278; p. 365.
"Puritan Malt Extract." (For Cans Containing Malt Extract.) J. E. Magnus. No. 22,125; Sept. 14; v. 278; p. 365.

"Purple Seal Playthings Picture Builder No. 2." (For Educational Playthings—Namely, Picture-Builders.) Chas. F. Lorenzen & Co. No. 22,116; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Picture Builders No. 3." (For Educational Playthings—Namely, Picture-Builders.) Chas. F. Lorenzen & Co. No. 22,117; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 11." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,121; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 21." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,122; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 22." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,120; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 31." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,119; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 41." (For Educational Playthings—Namely, Design-Builder.) Chas. F. Lorenzen & Co. No. 22,118; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 51." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,124; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 61." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,123; Sept. 14; v. 278; p. 365.
"Queen Anne Soap Powder." (For Soap Powder.) Lautz Bros. & Co. No. 22,111; Sept. 14; v. 278; p. 365.
"Queen Anne Scourer." (For a Scouring Preparation.) Lautz Bros. & Co. No. 22112; Sept. 14; v. 278; p. 365.
"Some!!!" (For Cakes.) H. V. Walters. No. 22,139; Sept. 14; v. 278; p. 366.
"The Original Apollo." (For Cigars.) Peter Kordick Company. No. 22,110; Sept. 14; v. 278; p. 365.
"The Personal Writing Machine." (For Typewriting-machines.) Corona Typewriter Company, Inc. No. 22,102; Sept. 14; v. 278; p. 365.
"Uneek Salad Dressing." (For Containers Containing Salad-Dressing.) W. W. Lewis. No. 22,115; Sept. 14; v. 278; p. 365.
"Usacuba." (For Cigars.) W. L. Van Dyke. No. 22,138; Sept. 14; v. 278; p. 366.
"Zay-Tek." (For Chocolate and Cocoa.) Pennsylvania Chocolate Company. No. 22,134; Sept. 14; v. 278; p. 365.

ALPHABETICAL LIST OF PRINTS.

"Come in, Let Us Show You Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) Detmer Woolen Co. No. 5,342; Sept. 14; v. 278; p. 366.
"Deerfield." (For Oranges and Grapefruit.) E. P. Porcher. No. 5,349; Sept. 14; v. 278; p. 366.
"For a Lovely Complexion and Glorious Hair." (For Soap.) James S. Kirk & Company. No. 5,346; Sept. 14; v. 278; p. 366.
"Heinz Fig Pudding." (For Heinz Fig-Pudding.) H. J. Heinz Company. No. 5,343; Sept. 14; v. 278; p. 366.
"Heinz Oven Baked Beans." (For Heinz Oven-Baked Beans.) H. J. Heinz Company. No. 5,345; Sept. 14; v. 27; p. 366.
"Heinz Tomato Ketchup." (For Heinz Tomato Catchup.) H. J. Heinz Company. No. 5,344; Sept. 14; v. 278; p. 366.
"How do you get that way?" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,351; Sept. 14; v. 278; p. 366.
"It Simply isn't Christmas without Sparrows." (For Confectionery.) Boston Confectionery Company. No. 5,339; Sept. 14; v. 278; p. 366.
"Long Wear." (For Athletic Underwear.) The B. V. D. Company. No. 5,340; Sept. 14; v. 278; p. 366.
"No-Leak-O Oilsealing." (For Piston-Rings.) No-Leak-O Piston Ring Company. No. 5,347; Sept. 14; v. 278; p. 366.
"Simple Home Treatment Which Makes Your Hair Thick and Beautiful." (For Shampoo.) The Palmolive Company. No. 5,348; Sept. 14; v. 278; p. 366.
"The Largest Selling Quality Pencil in the World." (For Lead-Pencils.) American Lead Pencil Company. Nos. 5,336–8; Sept. 14; v. 278; p. 366.
"The Snappy Link." (For Cuff-Links.) John A. Cunningham & Co. No. 5,341; Sept. 14; v. 278; p. 366.
"You'll fuss a pipe like it's the new baby." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,350; Sept. 14; v. 278; p. 366.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Anesthetics. The Abbott Laboratories. No. 128,311; Sept. 14; v. 278; p. 331.
Antiseptic solution for leucorrhea, gouts, boils, &c. Sharpe-Philippi Co. No. 128,566; Sept. 14; v. 278; p. 331.
Automobile bodies and underframes. Mercury Body Corporation. No. 135,568; Sept. 14; v. 278; p. 352.
Automobiles. Skelton Motors Corporation. No. 134,433; Sept. 14; v. 278; p. 343.
Automobiles complete, parts of automobiles, &c. Société Anonyme des Anciens Établissements, Hotchkiss & Cie. No. 128,904; Sept. 14; v. 278; p. 332.
Battery-steamers, battery steamers and stills, stills, &c. Illinois Battery Steamer Co. No. 129,596; Sept. 14; v. 278; p. 333.
Belting. The Farm Equipment Co. No. 126,687; Sept. 14; v. 278; p. 330.
Belting. E. F. Houghton & Co. Nos. 135,278–9; Sept. 14; v. 278; p. 350.
Belting and belt-lacing, Canvas. Fabric Belt & Lace Co. No. 127,472; Sept. 14; v. 278; p. 331.
Belting, hose, packing. Boston Belting Corporation. No. 122,459; Sept. 14; v. 278; p. 329.
Belting, hose, machinery packing, tires. The Gates Rubber Company. No. 132,859; Sept. 14; v. 278; p. 338.
Belting, hose, packing, tires. International India Rubber Corporation. No. 134,823; Sept. 14; v. 278; p. 345.
Belting, Leather. Consolidated Belting Company. No. 128,265; Sept. 14; v. 278; p. 331.
Belting, Leather. Hide Leather & Belting Co. No. 133,305; Sept. 14; v. 278; p. 339.
Belting, Leather. Hide Leather & Belting Co. No. 133,309; Sept. 14; v. 278; p. 333.
Belting, Leather. Hide Leather & Belting Co. Nos. 133,311–13; Sept. 14; v. 278; p. 339.
Belts. The B. F. Goodrich Company. No. 131,952; Sept. 14; v. 278; p. 337.
Belts, Elevator-. The B. F. Goodrich Company. No. 131,950; Sept. 14; v. 278; p. 337.
Belts, Leather. F. Gilardini. No. 128,888; Sept. 14; v. 278; p. 332.
Beverage, Non-alcoholic maltless. Emerson Drug Company. No. 118,830; Sept. 14; v. 278; p. 328.
Beverages, and syrups for making the same, Non-alcoholic, non-cereal. S. C. Webber. No. 132,660; Sept. 14; v. 278; p. 338.
Beverages, Non-alcoholic fruit. Rainier Products Company. No. 134,546; Sept. 14; v. 278; p. 344.
Beverages, Non-alcoholic non-cereal maltless. The Bee Bee Confection Company. No. 122,681; Sept. 14; v. 278; p. 329.
Birch-ale. Schoenhofen Company. No. 134,795; Sept. 14; v. 278; p. 345.
Blocks and floor-tiling, heat-insulating materials, &c., made of cork. International Cork Company. No. 126,127; Sept. 14; v. 278; p. 330.
Boots and shoes. Leather. Barney, Capen & Denham Co. No. 133,907; Sept. 14; v. 278; p. 342.
Bread. Papendick Bakery Company. No. 135,616; Sept. 14; v. 278; p. 352.
Bread. Ward Baking Company. No. 133,810; Sept. 14; v. 278; p. 342.
Broaches, expanding burnishers, wrenches, &c. Danielson-Gardanier Manufacturing Company. No. 134,118; Sept. 14; v. 278; p. 342.
Buttons of all kinds except those made of precious metal. Accolite Mfg. Co. No. 128,873; Sept. 14; v. 278; p. 332.
Buttons, Shoe and clothing. National Ring Traveler Co. No. 132,479; Sept. 14; v. 278; p. 337.
Candies. Candy Products Corporation. No. 134,938; Sept. 14; v. 278; p. 347.
Candy. Bishop & Co. No. 135,034; Sept. 14; v. 278; p. 348.
Candy. Cardinet Candy Co. No. 135,134; Sept. 14; v. 278; p. 349.
Candy. Gurley Candy Company. Nos. 135,042–3; Sept. 14; v. 278; p. 348.
Candy. Mills Candy Co. No. 135,054; Sept. 14; v. 278; p. 348.
Candy. A. G. Morse Co. No. 134,839; Sept. 14; v. 278; p. 345.
Candy, chocolate, and cocoa. Chalet Chocolate Corporation. No. 134,880; Sept. 14; v. 278; p. 346.
Candy, Packages of. Cremint Co. No. 126,717; Sept. 14; v. 278; p. 330.
Canned fish. Sun Harbor Packing Corporation. No. 134,981; Sept. 14; v. 278; p. 347.
Canned fruits. Pauwela Pineapple Company. Nos. 134,977–9; Sept. 14; v. 278; p. 347.
Canned fruits, fish, vegetables, and milk. Bech, Van Siclen & Co. No. 134,176; Sept. 14; v. 278; p. 342.
Canned fruits, vegetables, and fish and dried fruits. Dodge, Sweeney & Co. No. 132,776; Sept. 14; v. 278; p. 338.
Canned vegetables. The Fairfield Canning Company. No. 126,117; Sept. 14; v. 278; p. 330.
Canned vegetables. Marshall Canning Company. No. 134,971; Sept. 14; v. 278; p. 347.
Canned vegetables. The Winorr Canning Company. No. 134,990; Sept. 14; v. 278; p. 347.
Cantaloups. H. M. Stephens. No. 133,286; Sept. 14; v. 278; p. 339.
Carbon-paper, typewriter-ribbons. De-Fi Manufacturing Company. No. 129,004; Sept. 14; v. 278; p. 332.
Carburetors. Carter Carburetor Company. No. 133,519; Sept. 14; v. 278; p. 340.
Carriage-cloth made of fabric and rubber. United States Rubber Company. No. 129,106; Sept. 14; v. 278; p. 333.
Chewing-gum. Automatic Clerk Company. No. 128,646; Sept. 14; v. 278; p. 331.
Chocolate candy. Hawley & Hoops. No. 135,145; Sept. 14; v. 278; p. 349.
Chocolates and candy. The Shelby Candy and Manufacturing Company. Nos. 135,300–2; Sept. 14; v. 278; p. 350.
Chocolates, bonbons, and candies. C. Scourby. No. 132,490; Sept. 14; v. 278; p. 337.
Coffee. Early-Stratton Co. No. 135,039; Sept. 14; v. 278; p. 348.
Coffee. T. A. Lamb Company. No. 134,827; Sept. 14; v. 278; p. 345.
Color ingredients for paints, paint and glaze enamels, &c. Missouri Cobalt Company. No. 129,945; Sept. 14; v. 278; p. 334.
Corsets. R. Kops. No. 134,782; Sept. 14; v. 278; p. 345.
Combs and button-hooks not made of precious metal. Samstag and Hilder Bros. No. 128,466; Sept. 14; v. 278; p. 331.
Composition roofing, asphalt shingles, asphalts, &c. A. C. Fischer. No. 128,836; Sept. 14; v. 278; p. 332.
Compound of refined nut oils and evaporated skimmed milk. The Carolene Co. No. 134,945; Sept. 14; v. 278; p. 347.
Confection, Popcorn. Connecticut Pop Corn Co. No. 134,881; Sept. 14; v. 278; p. 346.
Counters, shelving, show-cases. "U-Save-It" Stores Association. No. 119,619; Sept. 14; v. 278; p. 328.
Coupler attachments, Trailer. A. J. Anderson. No. 130,463; Sept. 14; v. 278; p. 335.
Cream, Evaporated. Rico Milk Products Company. No. 133,166; Sept. 14; v. 278; p. 338.
Dress-shields. J. Stein. No. 135,176; Sept. 14; v. 278; p. 349.
Dried fruits and fresh deciduous fruits. Whitney, Summers & Swim. No. 133,511; Sept. 14; v. 278; p. 340.
Dry batteries. National Carbon Company. No. 134,596; Sept. 14; v. 278; p. 344.
Edible oil. The Southern Cotton Oil Company. Nos. 135,117–18; Sept. 14; v. 278; p. 349.
Engines, sugar-mills, and plate-glass machinery. The Hooven, Owens, Rentschler Company. No. 134,891; Sept. 14; v. 278; p. 346.
Feed for stock, particularly for hens. Great Western Milling Company. No. 135,471; Sept. 14; v. 278; p. 352.
Feed, Stock. Albers Bros. Milling Company. No. 135,462; Sept. 14; v. 278; p. 351.
Feeds, Poultry. St. Albans Grain Company. No. 133,897; Sept. 14; v. 278; p. 342.
Flat paint for finishing interior walls, &c. Indiana Indestructible Paint Co. No. 128,967; Sept. 14; v. 278; p. 332.
Flavoring for foods, Concentrated vanilla. The Tisco Company. No. 134,863; Sept. 14; v. 278; p. 346.
Flour, Kansas hard-wheat patent. E. O. Challenger. No. 118,294; Sept. 14; v. 278; p. 328.
Flour, Wheat-. Bay City Milling Co. No. 135,265; Sept. 14; v. 278; p. 349.
Flour, Wheat-. Dan Valley Mills. Nos. 133,613-4; Sept. 14; v. 278; p. 341.
Flour, Wheat-. Tacoma Grain Company. No. 135,739; Sept. 14; v. 278; p. 352.
Flour, Wheat-. Washburn-Crosby Company. No. 133,721; Sept. 14; v. 278; p. 341.
Flower-extraction products. Ungerer & Company. No. 123,145; Sept. 14; v. 278; p. 329.

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Food for stock, particularly for chickens. Great Western Milling Company. No. 135,470; Sept. 14; v. 278; p. 351.
Food for stock, particularly for hogs. Great Western Milling Company. No. 135,472; Sept. 14; v. 278; p. 352.
Food, Stock. F. K. Chandler. No. 135,359; Sept. 14; v. 278; p. 351.
Food, Stock. Oswego Milling Company. Nos. 135,014–5; Sept. 14; v. 278; p. 348.
Fruit Emulsion, flavors without alcohol, powdered egg preparations, &c. The International Company. No. 133,672; Sept. 14; v. 278; p. 341.
Fruit, Fresh citrus. A. M. Klemm & Son. No. 125,891; Sept. 14; v. 278; p. 329.
Fruit-juices. Twin City Extract Co. No. 122,617; Sept. 14; v. 278; p. 329.
Fruit, Medicated. Boal's Rolls Corporation. No. 120,089; Sept. 14; v. 278; p. 328.
Fruit punches, ginger-ale, root-beer, non-alcoholic. S. Blackman. No. 130,264; Sept. 14; v. 278; p. 335.
Fruits, Fresh citrus. Anaheim Citrus Fruit Association. No. 134,341; Sept. 14; v. 278; p. 343.
Fruits, Fresh citrus. House Brothers. No. 135,277; Sept. 14; v. 278; p. 350.
Fruits, Fresh citrus. Old Baldy Citrus Association. No. 134,381; Sept. 14; v. 278; p. 343.
Furniture, automobile, and piano polish. Sun Gloss Polish Co. No. 133,288; Sept. 14; v. 278; p. 339.
Furnace, burning coal, wood, or oil, Warm-air. P. C. De Vol Hardware Co. No. 134,464; Sept. 14; v. 278; p. 343.
Gas-engines, oil-engines, oil well packers, &c. Franklin Valveless Engine Company. No. 133,576; Sept. 14; v. 278; p. 341.
Glass bottles and jars. The Kearns-Gorsuch Bottle Company. No. 133,358; Sept. 14; v. 278; p. 340.
Gloves, Fabric. H. N. Smaltz. No. 131,543; Sept. 14; v. 278; p. 336.
Grape product containing less than one-half of one per cent. of alcohol. A. D. Lewis. No. 134,829; Sept. 14; v. 278; p. 345.
Grinding-machines. The Heald Machine Company. No. 133,315; Sept. 14; v. 278; p. 340.
Gum-arabic, gum-tragacanth, perfumery, &c. Orbis Products Trading Co. No. 114,769; Sept. 14; v. 278; p. 327.
Hair-restorer. A. Flores. No. 128,344; Sept. 14; v. 278; p. 331.
Heaters, Gas water-. Bastian-Morley Co. No. 134,873; Sept. 14; v. 278; p. 346.
Heaters, Gas water-. Bastian-Morley Co. No. 134,875; Sept. 14; v. 278; p. 346.
Herbs for seasoning, Dried. Frank H. Lockyer Supply Co., Limited. No. 115,641; Sept. 14; v. 278; p. 327.
Horns, Mechanically-operated automobile. Guiterman, Rosenfeld & Company. No. 133,258; Sept. 14; v. 278; p. 338.
Hose and sheet packing. The B. F. Goodrich Company. No. 131,958; Sept. 14; v. 278; p. 337.
Hose, Rubber, &c. F. A. Patrick & Co. No. 130,925; Sept. 14; v. 278; p. 335.
Hosiery. J. R. Beaton Co. No. 132,626; Sept. 14; v. 278; p. 338.
Hosiery. Chipman Knitting Mills. No. 135,357; Sept. 14; v. 278; p. 357.
Ice-cream. W. B. Wood Mfg. Co. No. 134,869; Sept. 14; v. 278; p. 346.
Ice-cream cones or cornets. J. H. Dickhudt. No. 134,774; Sept. 14; v. 278; p. 345.
Inner Tubes for Pneumatic Tires. Goodwill Rubber Co. No. 133,660; Sept. 14; v. 278; p. 341.
Lard containing cotton-seed oil. Kaufman Packing Co. No. 133,973; Sept. 14; v. 278; p. 342.
Leather. Amalgamated Leather Companies. No. 131,691; Sept. 14; v. 278; p. 336.
Leather. The United States Leather Company. No. 129,197; Sept. 14; v. 278; p. 333.
Lenses, Automobile-headlight. T. B. Dewhurst. No. 130,884; Sept. 14; v. 278; p. 335.
Lenses, Headlight-. The Clamert Manufacturing Company. No. 135,442; Sept. 14; v. 278; p. 351.
Light-diffusers. Stewart-Warner Speedometer Corp. No. 107,222; Sept. 14; v. 278; p. 327.
Liquid composition for the treatment of kidney, bladder, and liver diseases. La Rue Medicine Company. No. 129,787; Sept. 14; v. 278; p. 334.
Lithopone. E. I. du Pont de Nemours & Co. No. 112,295; Sept. 14; v. 278; p. 327.
Lotion for treating the complexion. J. H. Snyder Med. Co. No. 128,803; Sept. 14; v. 278; p. 332.
Macaroni, cheese, orange, and grapefruit marmalade. A. Silz, Inc. No. 131,754; Sept. 14; v. 278; p. 336.
Massage shower-bath sprays. The Fitzgerald Manufacturing Company. No. 134,468; Sept. 14; v. 278; p. 343.
Meats, lard, butter, eggs, &c. Allied Packers. No. 131,768; Sept. 14; v. 278; p. 337.
Medical preparation for hog-cholera. A. Hunt. No. 126,472; Sept. 14; v. 278; p. 330.
Milk mixed with cocoanut-oil. Condensed skimmed. The Universal Milk Company. Nos. 135,029–30; Sept. 14; v. 278; p. 348.
Milk-powder. T. G. Remschel. No. 126,198; Sept. 14; v. 278; p. 330.
Motorcycles and bicycles. Excelsior Motor Mfg. & Supply Co. No. 132,637; Sept. 14; v. 278; p. 338.
Music-boxes. Tiffany & Company. No. 135,388; Sept. 14; v. 278; p. 351.
Mustard. Bingo Mustard Co. No. 134,841; Sept. 14; v. 278; p. 345.
Nail polish, Finger-. The Medco Company. No. 126,047; Sept. 14; v. 278; p. 330.
Nightgowns, pajamas, combinations, &c. Bessie Damsey. No. 133,401; Sept. 14; v. 278; p. 340.
Nuts, Pinon-. F. S. Spitz. No. 124,123; Sept. 14; v. 278; p. 329.
Oils, Lubricating-. Nourse Oil Company. No. 125,904; Sept. 14; v. 278; p. 330.
Oilskin clothing. Great Grimsby Coal, Salt and Tanning Company, Limited. No. 134,747; Sept. 14; v. 278; p. 344.
Ointment, Skin-. B. H. Smith. No. 120,934; Sept. 14; v. 278; p. 328.
Oleomargarin. The Baltimore Butterine Co. No. 133,394; Sept. 14; v. 278; p. 340.
Orange marmalade. Gordon & Dilworth. No. 133,966; Sept. 14; v. 278; p. 342.
Packing-rings, Metallic. St. Louis Piston Ring Corporation. No. 135,174; Sept. 14; v. 278; p. 349.
Packing, Sheet-. The B. F. Goodrich Company. No. 131,964; Sept. 14; v. 278; p. 337.
Paints, wood stains, varnish-stains, &c. The Patterson-Sargent Company. No. 134,756; Sept. 14; v. 278; p. 344.
Pans, Muffin-. Chicago Metallic Manufacturing Co. No. 122,154; Sept. 14; v. 278; p. 328.
Paper, Grease-proof parchment-. Mountain Mill Paper Company. No. 133,550; Sept. 14; v. 278; p. 340.
Paper tubes, Flexible. Kellerit-Schlauch-Gesellschaft m. b. h. No. 110,278; Sept. 14; v. 278; p. 327.
Patches and patch kits, Tube and heavy-casing. Money Back Laboratories. Nos. 131,583–5; Sept. 14; v. 278; p. 336.
Paving material. Bitoslag Paving Company. No. 135,198; Sept. 14; v. 278; p. 349.
Perfume-cream for neutralizing body-odors. O. J. Kolar. No. 129,263; Sept. 14; v. 278; p. 333.
Phonographic records. F. Lauter. No. 135,153; Sept. 14; v. 278; p. 349.
Piano actions, Player-. Scott Player Action Co. No. 135,385; Sept. 14; v. 278; p. 351.
Pins, Safety-. New York Merchandise Company. No. 135,040; Sept. 14; v. 278; p. 352.
Polish, Automobile and furniture. E. W. Smith. No. 130,449; Sept. 14; v. 278; p. 335.
Polishes for automobiles, &c. R. F. Carr. No. 133,294; Sept. 14; v. 278; p. 339.
Popcorn. International Corn Products Corporation. No. 134,957; Sept. 14; v. 278; p. 347.
Preparation for bathing the feet. Specific Remedy Company. No. 129,752; Sept. 14; v. 278; p. 334.
Preparation for dental-pulp preserving and capping. V. C. Smedley. No. 129,815; Sept. 14; v. 278; p. 334.
Preparation for removing rust. The Rustokut Company. No. 128,620; Sept. 14; v. 278; p. 331.
Preparation for the treatment of indigestion, &c. Golden Seal Laboratories. No. 128,436; Sept. 14; v. 278; p. 331.
Protective and safety devices for workers and others. The Strong, Kennard & Nutt Company. No. 126,340; Sept. 14; v. 278; p. 330.
Protein substance. C. Brooks. No. 117,477; Sept. 14; v. 278; p. 328.
Pumps, Power-driven water-supply. The Goulds Manufacturing Co. No. 132,918; Sept. 14; v. 278; p. 338.
Remedy for catarrh. T. Woodward. No. 130,001; Sept. 14; v. 278; p. 335.
Remedy for debilities of stomach, headache, &c. C. A. Kalinska. No. 129,178; Sept. 14; v. 278; p. 333.
Ribbons, Silk, velvet, and cotton. W. E. Dodd. No. 129,626; Sept. 14; v. 278; p. 334.
Rice. I. Akaba. No. 129,618; Sept. 14; v. 278; p. 334.
Root-beer, birch-beer, ginger-ale, lemon-soda, &c. Chester Beverage Co. No. 133,080; Sept. 14; v. 278; p. 338.
Root-beer extract. The E. L. Patch Co. No. 134,851; Sept. 14; v. 278; p. 346.
Rubber tires. International India Rubber Corporation. No. 134,822; Sept. 14; v. 278; p. 345.
Sardines. Globe Canning Co. No. 111,725; Sept. 14; v. 278; p. 327.
Seeds and horses. R. Haughton. Nos. 134,471–8; Sept. 4; v. 278; p. 344.
Shirts, Men's dress and negligée. Gerson & Goodman. No. 133,577; Sept. 14; v. 278; p. 341.
Shirts, Men's silk and cotton dress or work. B. Chipman. No. 133,203; Sept. 14; v. 278; p. 338.
Shoes. I. Blyn & Sons. No. 115,899; Sept. 14; v. 278; p. 327.
Shoes. Graham-Bumgarner Company. No. 135,323; Sept. 14; v. 278; p. 350.
Shoes. Graham-Bumgarner Company. No. 135,325; Sept. 14; v. 278; p. 350.
Shoes for misses and children. Craddock Terry Company. No. 134,773; Sept. 14; v. 278; p. 345.
Signs, Advertising-. Animated Advertising Corporation. No. 133,648; Sept. 14; v. 278; p. 341.

(REGISTRATION APPLIED FOR.)

Stimulant for kidney and bladder. Scranton Distributing and Mfg. Co. No. 128,902; Sept. 14; v. 278; p. 332.
Stoves, ranges, and parts thereof. Magee Furnace Company. No. 133,548; Sept. 14; v. 278; p. 340.
Sweaters, neckscarfs, shawls, &c. Louis Metzger & Company. No. 135,338; Sept. 14; v. 278; p. 351.
Syrup for food purposes and a dough-developer. Cereal Products Refining Company. Nos. 134,458–60; Sept. 14; v. 278; p. 343.
Syrup, molasses, and honey, Table-. Conner & Co. No. 134,932; Sept. 14; v. 278; p. 346.
Syrup, Non-alcoholic, non-cereal, maltless soft-drink. J. M. Strickler. No. 130,688; Sept. 14; v. 278; p. 335.
Syrup, Table-. Langhoff Brothers Company. No. 134,966; Sept. 14; v. 278; p. 347.
Tents and awnings. Central Tent & Awning Company. No. 133,871; Sept. 14; v. 278; p. 342.
Thread and yarns. The West End Thread Company. No. 134,397; Sept. 14; v. 278; p. 343.
Tire-casings and inner-tubes. Zonta Tire & Inner Tubes. No. 132,282; Sept. 14; v. 278; p. 337.
Tire patch, Automobile-. E. J. O'Connell. No. 135,165; Sept. 14; v. 278; p. 349.
Tires, Automobile-. True-Matic Tire & Tube Company. No. 135,530; Sept. 14; v. 278; p. 352.
Tires, Repair shoes and patches for pneumatic. The Wilson Rubber Company. No. 133,441; Sept. 14; v. 278; p. 340.
Tires, Rubber pneumatic. Victory Rubber Manufacturing Co. No. 133,718; Sept. 14; v. 278; p. 341.
Tires, Rubber vehicle-. J. C. Dawson. No. 130,409; Sept. 14; v. 278; p. 335.
Tooth-paste. G. Bernard. No. 129,820; Sept. 14; v. 278; p. 334.
Transmission-linings. The Powers Manufacturing Company. No. 132,200; Sept. 14; v. 278; p. 337.
Trucks, Motor-. Highway Motors Co. No. 125,779; Sept. 14; v. 278; p. 329.
Turpentine and turpentine substitutes. Anderson, Meyer & Company, Ltd. No. 134,623; Sept. 14; v. 278; p. 344.
Undergarments, Women's, misses', and children's. D. E. Sicher & Co. No. 134,921; Sept. 14; v. 278; p. 346.
Underwaists, Infants'. Comfort Garment Company. No. 131,310; Sept. 14; v. 278; p. 335.
Underwear. William H. Shelp & Company. No. 131,129; Sept. 14; v. 278; p. 335.
Underwear and baby-pants, Infants' and children's. I. B. Kleinert Rubber Company. No. 135,329; Sept. 14; v. 278; p. 351.
Underwear and pajamas, Men's. Universal Garment Company. No. 134,926; Sept. 14; v. 278; p. 346.
Underwear, baby-pants, and waders, Infants' and children's. I. B. Kleinert Rubber Company. No. 135,328; Sept. 14; v. 278; p. 350.
Vehicle-bodies. The Baker R & L Company. No. 133,958; Sept. 14; v. 278; p. 342.
Vehicles, Light motor road-. Delmore Manufacturing Co. No. 130,721; Sept. 14; v. 278; p. 335.
Vehicles, Pedal-driven, three-wheel juvenile. Westfield Manufacturing Company. Nos. 134,494–5; Sept. 14; v. 278; p. 344.
Wicking used for packing. Massasoit Manufacturing Company. No. 129,131; Sept. 14; v. 278; p. 333.
Wicking used for packing. Massasoit Manufacturing Company. Nos. 129,220–1; Sept. 14; v. 278; p. 333.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 14, 1920.

NOTE.—First number—class, second number—subclass, third number—patent number.

2— 41: 1,352,704
67: 1,352,563
1,352,705
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73: 1,352,422
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108: 1,352,838
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144: 1,352,944
3— 2: 1,352,682
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10— 100: 1,352,823
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	80: 1,352,644		16: 1,352,684		99: 1,352,820		81: 1,352,862	252—	1,352,553		60: 1,352,612				
200—	8: 1,352,896		18: 1,353,016		100: 1,352,645		115: 1,352,857	253—	39: 1,352,743	271—	49: 1,353,088				
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	126: 1,352,816		85: 1,352,698		1,352,595		84.5: 1,353,113		161: 1,353,063	280—	11: 1,353,071				
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	160: 1,352,889		69: 1,352,650	226—	63: 1,353,069	244—	12: 1,352,600		184: 1,352,454		159: 1,352,679				
	166: 1,353,021		81: 1,353,017	228—	60: 1,352,566		21: 1,353,130		1,352,455	281—	17: 1,352,907				
	168: 1,353,124		99: 1,353,104		64: 1,352,830		1,353,131		186: 1,352,653	285—	57: 1,353,006				
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203—	6: 1,353,035		60: 1,352,602		72: 1,352,972		139: 1,352,479		132: 1,352,982	290—	31: 1,352,794				
204—	28: 1,352,763		1,352,711	230—	16: 1,352,856		170: 1,352,861		248: 1,352,964		38: 1,352,468				
	29: 1,352,619	219—	8: 1,353,028		24: 1,353,098		187: 1,353,084	258—	180: 1,352,005		44: 1,352,960				
	1,352,834		38: 1,352,854		30: 1,352,750		347: 1,352,988	259—	51: 1,352,984	292—	17: 1,352,456				
	64: 1,352,430		40: 1,352,547		1,352,751		476: 1,352,801	261—	41: 1,352,628		175: 1,352,624				
	1,352,541		44: 1,352,435	234—	1: 1,352,694	248—	11.5: 1,352,495	262—	29: 1,353,054		216: 1,352,762				
	1,352,580		48: 1,352,934	235—	60: 1,352,593		32: 1,352,895	263—	19: 1,352,481	293—	16: 1,352,757				
206—	13: 1,352,814		57: 1,352,447		144: 1,352,973		33: 1,352,549	265—	7: 1,352,880	294—	60: 1,352,921				
	41: 1,352,613	220—	19: 1,352,444	236—	58: 1,352,808		37: 1,352,663		62: 1,352,935		88: 1,352,947				
	46: 1,352,962		36: 1,352,521		95: 1,352,685	250—	1: 1,352,940		71: 1,352,441		89: 1,352,665				
208—	24: 1,353,108		56: 1,353,127	237—	79: 1,352,477		19: 1,352,883	266—	4: 1,352,459	296—	116: 1,353,129				
	38: 1,353,011		82: 1,352,531	238—	186: 1,352,669		1,352,886		23: 1,352,760	298—	35: 1,353,062				
	70: 1,352,445		86: 1,352,792	240—	1: 1,352,995		20: 1,353,002	267—	2: 1,352,724	301—	64: 1,352,723				
	1,352,446		91: 1,353,080		2: 1,352,779		34: 1,352,615		29: 1,352,955	304—	34: 1,352,914				
	140: 1,352,596		94: 1,353,050		4: 1,353,033		35: 1,352,630		37: 1,352,915	305—	13: 1,352,635				
	165: 1,352,577	221—	60: 1,352,425		17.5: 1,352,636	251—	6: 1,352,900		45: 1,352,651		13: 1,353,068				
	1,352,835				44: 1,352,777		48: 1,353,053		46: 1,352,540						
210—	165: 1,352,961				52: 1,352,708		101: 1,352,423		53: 1,352,488						

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 21st DAY OF SEPTEMBER, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abramowitz, Hyman, New York, N. Y. Toy machine-gun. No. 1,353,696; Sept. 21; v. 278; p. 484.

Adams-Pond Company. (See Allbright, Edwin F., assignor.)

Adams, Raymond K., Dwyer, Wyo. Hoisting-crane or stacker. No. 1,353,697; Sept. 21; v. 278; p. 485.

Adams, Thomas M., Houston, Tex. Standing valve. No. 1,353,303; Sept. 21; v. 278; p. 405.

Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Combined carrier and radio system. No. 1,353,698; Sept. 21, v. 278; p. 485.

Aguere, Arthur, West Somerville, Mass. Electric plug. No. 1,353,699; Sept. 21; v. 278; p. 485.

Ahlstrom, Fritz A., Absaraka, N. D. Fencing-machine. No. 1,353,304; Sept. 21; v. 278; p. 405.

Aktiebolaget Svenska Kullagerfabriken. (See Palmgren, Nils A., assignor.)

Aladdin Products Company. (See Robison, Clinton S., assignor.)

Albany Perforated Wrapping Paper Company. (See Crandell, Willis S., assignor.)

Alberti, Emilio, New York, assignor to International Cork Company, Brooklyn, N. Y. Feeding attachment for crown-cork making machines. No. 1,353,136; Sept. 21; v. 278; p. 373.

Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,353,700; Sept. 21; v. 278; p. 485.

Allana, Priscilla. (See Lambert, Emma N., assignor.)

Allbright, Edwin F., Atlantic, assignor to Adams-Pond Company, Inc., Boston, Mass. Concrete construction. No. 1,353,373; Sept. 21; v. 278; p. 419.

Allen, Arthur M., Hope, Ark. Seat-hook. No. 1,353,701; Sept. 21; v. 278; p. 485.

Allen Hosiery Company. (See Longtin, William J., assignor.)

Alnutt, Lawrence L., Chattanooga, Tenn. Musical-instrument-string retoner. No. 1,353,135; Sept. 21; v. 278; p. 373.

Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Heat-insulated vessel and casing therefor. No. 1,353,305; Sept. 21; v. 278; p. 405.

American Metal Cap Company. (See Hammer, Charles, assignor.)

American Mine Door Company, The. (See Bowman, C. L., and Body, assignors.)

American Optical Company. (See Boutelle, William H., assignor.)

American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)

American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)

American Telephone and Telegraph Company. (See Grisson, George, assignor.)

American Wagon Company. (See Kuhnen, Alexander F., assignor.)

Andersen, Hans, Nymore, Minn. Log-skidding grapple. No. 1,353,503; Sept. 21; v. 278; p. 445.

Anderson, Eugene G., Seattle, Wash. Display-table. No. 1,353,208; Sept. 21; v. 278; p. 387.

Andersson, Wictor O. J., Malmö, Sweden. Calculating-machine. No. 1,353,504; Sept. 21; v. 278. p. 445.

Anfinson, Anton, Wakonda, S. D. Roadway. No. 1,353,446; Sept. 21; v. 278; p. 433.

Ansonia Manufacturing Company. (See Malby, Seth G., assignor.)

Arrighi, Pietro, San Francisco, Calif. Rotary engine. No. 1,353,374; Sept. 21; v. 278; p. 419.

Aschauer, Charles J., Decatur, Ill. Building construction. No. 1,353,702; Sept. 21; v. 278; p. 485.

Ash, Charles S., Geneva, N. Y. Truing-stand. No. 1,353,505; Sept. 21; v. 278; p. 445.

Atwood, Seth B., Rockford, Ill. Door-bumper. No. 1,353,506; Sept. 21, v. 278; p. 445.

Ashenhurst, Harold S., assignor of four-fifths to J. J. Reynolds, Chicago, Ill. Manufacturing an insulating material. No. 1,353,621; Sept. 21; v. 278; p. 469.

Ashenhurst, Harold S., assignor of four-fifths to J. J. Reynolds, Chicago, Ill. Reinforced insulating material. No. 1,353,622; Sept. 21; v. 278; p. 469.

Ault, Eugene B., Calallen, Tex. Bee-cage. No. 1,353,137; Sept. 21; v. 278; p. 373.

Automatic Electric Company. (See Yanochowski, G. A., and Hershey, assignors.)

Averill, Rex G., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-tender. No. 1,353,507; Sept. 21; v. 278; p. 445.

Averill, Rex G., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-tender. No. 1,353,508; Sept. 21; v. 278; p. 445.

Averill, Rex G., and C. H. Tomlinson; said Averill assignor to The Ohio Brass Company, Mansfield, Ohio. Multiple electric air and car coupling. No. 1,353,557; Sept. 21; v. 278; p. 455.

Avillar, Manuel D., New York, N. Y. Machine for slotting piston-rings and similar objects. No. 1,353,558; Sept. 21; v. 278; p. 456.

Babcock, Fay L., Largo, Fla. Toy. No. 1,353,703; Sept. 21; v. 278; p. 486.

Badger Manufacturing Corporation. (See Isrig, Walter V., assignor.)

Bagley, William W., Chicago, Ill., assignor to J. Rousso, Los Angeles, Calif. Towel-cabinet. No. 1,353,704; Sept. 21; v. 278; p. 486.

Bair, George I., Detroit, Mich. Window for automobile-curtains. No. 1,353,306; Sept. 21; v. 278; p. 406.

Baisch, Robert, and O. Kreutz, Detroit, Mich. Toy gun. No. 1,353,138; Sept. 21; v. 278; p. 373.

Bambrick, Charles L., Brooks, Alberta, Canada. Film-holder. No. 1,353,705; Sept. 21; v. 278; p. 486.

Bancel, Paul A., Nutley, assignor to The Ingersoll-Rand Company, Jersey City, N. J. Regenerative power installation. No. 1,353,706; Sept. 21; v. 278; p. 486.

Barber, Alfred H. (See Gasser, J., and Barber.)

Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-delivery mechanism for printing-presses. No. 1,353,509; Sept. 21; v. 278; p. 446.

Barker-Sweet Manufacturing Company, The. (See Sweet, Parker H., assignor.)

Barkis, Henry B., Sr., Lodi, Calif. Nut-bleaching apparatus. No. 1,353,209; Sept. 21; v. 278; p. 387.

Barkschat, Henry. (See Blinn, Edmund B., assignor.)

Barlow, William L., Clear Lake, Iowa. Device for catching and holding hogs. No. 1,353,376; Sept. 21; v. 278; p. 419.

Barnard, Dudley J., Barking, England. Grab. No. 1,354,651. Sept. 21; v. 278; p. 475.

Barnard, Joseph, Hackney, London, assignor to H. E. and G. G. Bloch, Birmingham, England. Toy animal. No. 1,353,707; Sept. 21; v. 278; p. 486.

Barnett, John H., Tettenhall, England. Seat of motor-cars. No. 1,353,708; Sept. 21; v. 278; p. 487.

Barr, Edward B., Newton, Kans. Door-latch. No. 1,353,447; Sept. 21; v. 278; p. 433.

Bartholomew, Wallace J. (See Dann, Frederick J., assignor.)

Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Making and filling bags. No. 1,353,210; Sept. 21; v. 278; p. 387.

Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)

Bauer, Martha V., Washington, D. C. Token. No. 1,353,709; Sept. 21; v. 278; p. 487.

Baumann, Karl, Urmston, assignor to The British Westinghouse Electric & Manufacturing Company, Limited, London, England. Blade or vane for steam-turbines. No. 1,353,710; Sept. 21, v. 278; p. 487.

Baumgartl, Leroy, Chicago, Ill. Manufacturing slabs or the like of cement or like material. No. 1,353,510; Sept. 21; v. 278; p. 446.

Baumgartl, Leroy, Chicago, Ill. Demountable wheel. No. 1,353,511; Sept. 21; v. 278; p. 446.

Baumgartl, Leroy, Chicago, Ill. Manufacturing slabs or the like of cement or like material. No. 1,353,512; Sept. 21; v. 278; p. 446.

Bausch, Albert. (See Maguire, W., and Bausch.)

Beach, Chester H., assignor to Frederick J. Osius, Racine, Wis. Support for sewing-machine motors. No. 1,353,211; Sept. 21; v. 278; p. 388.

Beattie, Charles W., Parsonsfield, Me., assignor of one-half to J. C. Nicholson, Peabody, Mass. Discharge-valve for flush-tanks. No. 1,353,559; Sept. 21; v. 278; p. 456.

Beckwith, Walter C., Fostoria, Ohio. Device for raising sunken vessels. No. 1,353,623; Sept. 21; v. 278; p. 469.

Bell, Hugo, Lawrence, Mass. Antiskid device for motor-vehicles. No. 1,353,560; Sept. 21; v. 278; p. 456.
Bilknap, Frank L. (See James, Willard C., assignor.)
Bellm, Henry E. (See Colver, A. S., and Bellm.)
Bennett, Ralph R., San Jose, Calif. Weighing-machine. No. 1,353,139; Sept. 21; v. 278; p. 373.
Bens, Frank J., San Jose, Calif. Lace-tip. No. 1,353,140; Sept. 21; v. 278; p. 374.
Berger, Samuel, Newark, N. J. Sink scoop or shovel. No. 1,353,307; Sept. 21; v. 278; p. 406.
Bergeron, Lindor, Macamic, Quebec, Canada. Sleigh. No. 1,353,141; Sept. 21; v. 278; p. 374.
Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Electric welding and reactor. No. 1,353,711; Sept. 21, v. 278; p. 487.
Bergstrom-Brewster Motor Company. (See Bergstrom, Cuthbert C., assignor.
Bergstrom, Cuthbert C., assignor to The Bergstrom-Brewster Motor Company, Denver, Colo. Stake-holder. No. 1,353,624; Sept. 21; v. 278; p. 470.
Bernier, Henry N., St. Eugene, De Guigues, Quebec, assignor of one-half to J. De Froy, Timmins, Ontario, Canada. Funnel. No. 1,353,712; Sept. 21; v. 278; p. 487.
Berry, William O., assignor of one-half to W. F. Wallis, Caro, Mich. Coupling device. No. 1,353,713; Sept. 21; v. 278; p. 488.
Berthon, Paul. (See Radisson, A., and Berthon.)
Bingley, John W., Watertown, N. Y. Engineer's brake-valve. No. 1,353,375; Sept. 21; v. 278; p. 419.
Black, George H., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of welt-shoes. No. 1,353,308; Sept. 21; v. 278; p. 406.
Blinn, Edmund B., Pasadena, assignor of one-third to H. Barkschat, Los Angeles, Calif. Concrete pole. No. 1,353,309; Sept. 21; v. 278; p. 406.
Bloch, George G., *et al.* (See Barnard, Joseph, assignor.)
Bloch, Harris E., *et al.* (See Barnard, Joseph, assignor.)
Bobo, Walton E., Hattiesburg, Miss., assignor to The Magnolia Company, Chicago, Ill. Curing sweet potatoes or yams. No. 1,353,561; Sept. 21; v. 278; p. 456.
Body, John J. (See Bowman, C. L., and Body.)
Bohen, Michael M. Casper, Wyo. Shoveling-machine. No. 1,353,142; Sept. 21; v. 278; p. 374.
Böhling, Rudolf H., assignor to the firm Rohrbogenwerk G. m. b. H., Hamburg, Germany. Method and device for manufacturing pipe-bends, serpentines, and the like. No. 1,353,714; Sept. 21; v. 278; p. 488.
Bohre, Anton C. deceased; K. C. Bohre, executrix, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Concentration of sulfuric acid. No. 1,353,488; Sept. 21; v. 278; p. 433.
Bohre, Katharina C., executrix. (See Bohre, Anton C.)
Boiler, Edward V., West Side, Iowa. Aeroplane. No. 1,353,212; Sept. 21; v. 278; p. 388.
Bois, Nathaniel, San Francisco, Calif. Stair structure. No. 1,353,377; Sept. 21; v. 278; p. 420.
Bonnet, Gottlieb, Lincoln Valley, N. D. Insect-trap. No. 1,353,310; Sept. 21; v. 278; p. 406.
Boswell, Fletcher O., assignor to F. O. B. Manufacturing Company, Philadelphia, Pa. Automobile-lock. No. 1,353,143; Sept. 21; v. 278; p. 374.
Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,353,513; Sept. 21; v. 278; p. 446.
Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,353,514; Sept. 21; v. 278; p. 447.
Bouvier, Jean B. (See Frappart, H., and Bouvier.)
Boutelle, William H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,353,311; Sept. 21; v. 278; p. 407.
Bovard, William H. (See Wolfe, P. L., and Bovard.)
Bowlus, Charles F., Dallas, Tex. Heater. No. 1,353,312; Sept. 21; v. 278; p. 407.
Bowman, Charles L., Canton, Ohio, and J. J. Body, Dante, Va., assignors to The American Mine Door Company, Canton, Ohio. Automatic mine-door. No. 1,353,715; Sept. 21; v. 278; p. 488.
Boyce, John A., Chicago, Ill. Printing and folding machine. No. 1,353,799; Sept. 21; v. 278; p. 504.
Bradley, Charles S., New York, N. Y. Production of iron and steel. No. 1,353,716; Sept. 21; v. 278; p. 488.
Brandenburg, Albert F., assignor of one-half to H. E. Palmer, Dayton, Ohio. Pen-brush. No. 1,353,625; Sept. 21; v. 278; p. 470.
Braun, Carl F., San Francisco, Calif. Heat-exchanger. No. 1,353,449; Sept. 21; v. 278; p. 433.
Brinnon, Burleigh B. (See Harbour, T. P., and Brinnon.)
British Westinghouse Electric & Manufacturing Company, The. (See Baumann, Karl, assignor.)
Bromfield, Henry A. M., Daylesford, Victoria, Australia. Weed and clod cutter. No. 1,353,626; Sept. 21; v. 278; p. 470.
Brown & Bigelow. (See Kristofek, F. J., and Fischer, assignors.)
Brown, Vincent B., Plattsmouth, Nebr. Sickle. No. 1,353,450; Sept. 21; v. 278; p. 433.
Brown, Walter W., Chico, Calif. Primer for engines. No. 1,353,144; Sept. 21; v. 278; p. 374.
Bryant Electric Company, The. (See Thomas, George B., assignor.)
Brush, Alanson P., Detroit, Mich. Internal-combustion engine of the V-type. No. 1,353,213; Sept. 21; v. 278; p. 388.
Buchanan, Frederick F., and N. F. Slack, Machipongo, Va. Package-tie. No. 1,353,717; Sept. 21; v. 278; p. 488.
Bucher, David H., Louisville, Ky. Collapsible pail. No. 1,353,627; Sept. 21; v. 278; p. 470.
Bullock, Percy W. (See Handley, George, assignor.)
Buresch, William W., Baltimore, Md. Bottle-capping tool. No. 1,353,718; Sept. 21; v. 278; p. 489.
Buresch, William W., Baltimore, Md. Bottle-capping tool. No. 1,353,719; Sept. 21; v. 278; p. 489.
Burns, Walter G., Fort Wayne, Ind. Driving mechanism for ore-concentrators. No. 1,353,451; Sept. 21; v. 278; p. 434.
Butterworth, Frank W., assignor to Western Brick Company, Danville, Ill. Brick. No. 1,353,515; Sept. 21; v. 278; p. 447.
Cahill, Henry D., Boston, Mass. Electric-lamp body, reflector, and shade-holder. No. 1,353,562; Sept. 21; v. 278; p. 456.
Cahill, Henry D., Boston, Mass. Electric-cluster-lamp body and shade-holder. No. 1,353,563; Sept. 21; v. 278; p. 457.
Calleson, Amos, Brooklyn, N. Y. Sealing appliance. No. 1,353,628; Sept. 21; v. 278; p. 470.
Calmer, Edward, St. Louis, Mo. Fire-kindler. No. 1,353,214; Sept. 21; v. 278; p. 388.
Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,353,378; Sept. 21; v. 278; p. 420.
Calthrop's, E. R., Aerial Patents Limited. (See Calthrop, Everard R., assignor.)
Campbell, William J., Indianapolis, Ind. Eraser attachment for pencils. No. 1,353,215; Sept. 21; v. 278; p. 388.
Carlson, Edward P., Seattle, Wash. Hydraulic pump. No. 1,353,216; Sept. 21; v. 278; p. 388.
Carvalho, David N., New York, N. Y. Process and composition for the protection of monetary and other documents. No. 1,353,720; Sept. 21; v. 278; p. 489.
Case, J. I., Threshing Machine Company. (See Crawford, John F., assignor.)
Caulfeild, Geraldine M. and H. F. S., Lee, England. Motor-vehicle. No. 1,353,379; Sept. 21; v. 278; p. 430.
Caulfeild, H. F. S. (See Caulfeild, Geraldine M. and H. F. S.)
Celite Products Company. (See Starr, E. B., and Marsh, assignors.)
Central Scientific Company. (See Krause, Arndt M., assignor.)
Chapman, Frank, Providence, R. I. Portable stove. No. 1,353,314; Sept. 21; v. 278; p. 407.
Chapman, Walter I., Jersey City, N. J. Roofing-tile and fastening means therefor. No. 1,353,807; Sept. 21; v. 278; p. 505.
Chappelle, Charles C., New York, N. Y. Gas-burner. No. 1,353,217; Sept. 21; v. 278; p. 389.
Cherry, Edward P., Dayton, assignor of one-half to N. N. Cherry, Springfield, Ohio. Illuminated sign. No. 1,353,516; Sept. 21; v. 278; p. 447.
Cherry, Norman N. (See Cherry, Edward P., assignor.)
Chesnutt, John L., assignor to The Service Caster & Truck Company, Kansas City, Mo. Operating mechanism for elevating-trucks. No. 1,353,564; Sept. 21; v. 278; p. 457.
Chipperfield, Walter, Hornchurch, assignor to Roneo Limited, London, England. Metal filing-cabinet. No. 1,353,452; Sept. 21; v. 278; p. 434.
Chipperfield, Walter, Romford, assignor to Roneo Limited, London, England. Means for simultaneously locking sliding drawers, shelves, or other sliding structures. No. 1,353,453; Sept. 21; v. 278; p. 434.
Chisholm, Douglas W., Garnkirk, Scotland. Closing die or bell for welded tubes. No. 1,353,721; Sept. 21; v. 278; p. 489.
Chmielarski, Walter, Gary, Ind. Bomb-dropper. No. 1,353,518; Sept. 21; v. 278; p. 447.
Church, John L., Oakland, Calif. Dice-game device. No. 1,353,380; Sept. 21; v. 278; p. 420.
Cibulka, George A., St. Louis, Mo. Collapsible box. No. 1,353,629; Sept. 21; v. 278; p. 470.
Clark, Ernest H., Birmingham, Ala. Record-book. No. 1,353,315; Sept. 21; v. 278; p. 407.
Clark, Francisco, Durango, Mexico. Combination-key. No. 1,353,722; Sept. 21; v. 278; p. 489.
Clary, Simon, Carnegie, Pa. Guard device for railways. No. 1,353,723; Sept. 21; v. 278; p. 489.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Impulse-controlling system. No. 1,353,517; Sept. 21; v. 278; p. 447.
Clement, Lewis M., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for varying electrical coupling. No. 1,353,145; Sept. 21; v. 278; p. 375.
Clemons, Fay A., Clemons, Iowa. Stock-waterer. No. 1,353,146; Sept. 21; v. 278; p. 375.
Cleveland Tractor Company, The. (See Strait, William, assignor.)
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,353,316; Sept. 21; v. 278; p. 408.
Coching, Gregorio C., Manila, Philippine Islands. Combined eye-shade and reflector. No. 1,353,630; Sept. 21; v. 278; p. 471.
Cobb, Harry E., Springfield, Ill. Ensilage-packer. No. 1,353,724; Sept. 21; v. 278; p. 489.

Cochran, John J., assignor, to Martin-Lumaghi Manufacturing Company, St. Louis, Mo. Means for supplying explosive mixtures to engines. No. 1,353,454; Sept. 21; v. 278; p. 434.
Coffman, Edward S., Clifton Forge, Va., assignor to F. E. Stebbins, Washington, D. C. Door-controlling device. No. 1,353,218; Sept. 21; v. 278; p. 389.
Cohen, Samuel, and A. R. Foerster, New York, N. Y. Button device. No. 1,353,725; Sept. 21; v. 278; p. 490.
Cole, Frederick W., Newton Highlands, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, Newton Upper Falls, Mass. Electromechanical valve mechanism for timing and controlling blasts on fire-alarm whistles and the like. No. 1,353,317; Sept. 21; v. 278; p. 408.
Collicutt, D. Fellows, Columbia, S. C. Scythe-snathe. No. 1,353,631; Sept. 21; v. 278; p. 471.
Collins, Thomas E., Chicago, Ill. Door check and closers. No. 1,353,219; Sept. 21; v. 278; p. 389.
Colver, Arthur S., and H. E. Bellm, assignors of one-third to C. C. Colver, Chicago, Ill. Labeling-machine. No. 1,353,519; Sept. 21; v. 278; p. 448.
Colver, Charles C. (See Colver, A. S., and Bellm, assignors.)
Converse, Atherton D., Winchendon, Mass. Toy aeroplane. No. 1,353,147; Sept. 21; v. 278; p. 375.
Cook, Charles B. (See Cook, Clayton T. and C. B.)
Cook, Clayton T. and C. B., Owosso, Mich. Acetylene-gas generator. No. 1,353,455; Sept. 21; v. 278; p. 435.
Coons, Alonzo, Wappingers Falls, N. Y. Clamp. No. 1,353,632; Sept. 21; v. 278; p. 471.
Cooper, Cullen B., *et al.* (See Lambeth, Acey L., assignor.)
Cooper, Samuel S., Landgraff, W. Va. Trolley-pole head. No. 1,353,381; Sept. 21; v. 278; p. 420.
Coote, John M., Elizabeth, N. J. Elevator safety-contact. No. 1,353,148; Sept. 21; v. 278; p. 375.
Copthorne, Howard N., Chicago, Ill., and A. L. Tannehill, Gary, Ind. Producing artificial resin. No. 1,353,220; Sept. 21; v. 278; p. 389.
Coryell, William C., assignor to The General Fireproofing Company, Youngstown, Ohio. Machine for making building fabric. No. 1,353,456; Sept. 21; v. 278; p. 435.
Cossitt, Malcolm L., Oakland, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifolding medium. No. 1,353,149; Sept. 21; v. 278; p. 375.
Cothran, John T., Spartanburg, S. C. Lifting-rod collar for spinning-frames. No. 1,353,633; Sept. 21; v. 278; p. 471.
Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
Cowan, John A., Kansas City, Mo. Traction device for vehicles. No. 1,353,318; Sept. 21; v. 278; p. 408.
Craig, Robert M., Wilkinsburg, Pa. Making metallic denture-backings. No. 1,353,565; Sept. 21; v. 278; p. 457.
Crandell, Willis S., Elsmere, assignor to Albany Perforated Wrapping Paper Company, Albany, N. Y. Process of and machine for winding rolls of paper towels and toilet-paper, &c. No. 1,353,634; Sept. 21; v. 278; p. 471.
Crawford, John F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Metal-bending machine. No. 1,353,365; Sept. 21; v. 278; p. 472.
Crawford, William R., Pomona, Calif. Smokeless orchard-heater. No. 1,353,030; Sept. 21; v. 278; p. 472.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,353,319; Sept. 21; v. 278; p. 408.
Crissinger, Joseph J., Greensburg, Pa. Nut-lock. No. 1,353,382; Sept. 21; v. 278; p. 421.
Crisson, George, Hoboken, N. J., assignor to American Telephone and Telegraph Company. Repeater-circuit. 1,353,637; Sept. 21; v. 278; p. 472.
Crommett, Charles F., Chelsea, Mass. Containing apparatus and valve system therefor. No. 1,353,320; Sept. 21; v. 278; p. 408.
Crommett, Charles F., Chelsea, Mass. Valve. No. 1,353,321; Sept. 21; v. 278; p. 409.
Crosthwait, David N., Jr., Marshalltown, Iowa. Apparatus for returning water to boilers. No. 1,353,467; Sept. 21; v. 278; p. 435.
Cuau, Charles, Paris, France. Construction of radiators for cooling the circulating water in explosion-motors. No. 1,353,322; Sept. 21; v. 278; p. 409.
Cummings, B. F., Perforator Company, The. (See Swanson, Iljalmar, assignor.)
Cunningham, Clyde L., Perris, Calif. Tire. No. 1,353,726; Sept. 21; v. 278; p. 490.
Curran, William, Lewiston, Me., assignor of one-third to P. F. Tremblay, Lewiston, and one-third to H. W. Oakes, Auburn, Me. Let-off-rod operator. No. 1,353,727; Sept. 21; v. 278; p. 490.
Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)
Cutler, William C., North Glendale, Calif. Directory-machine. No. 1,353,458; Sept. 21; v. 278; p. 435.
Dann, Frederick J., Countesthorpe, England, assignor to Wallace J. Bartholomew, London, England. Spade and like digging-tool. No. 1,353,459; Sept. 21; v. 278; p. 435.
Daugherty, Alvin A., New York, N. Y. Apparatus for producing gasolene and other products from hydrocarbons. No. 1,353,638; Sept. 21; v. 278; p. 472.
Davidson, Frank B., Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y. Paper-board. No. 1,353,323; Sept. 21; v. 278; p. 409.
Davis, A. B. (See Fisk, Alfred A., assignor.)
Davis, Claude H., Wanganui, New Zealand. Vacuum milking-machine. No. 1,353,639; Sept. 21; v. 278; p. 472.
Davis, George H., West Orange, N. J. Perforated music-sheet for automatic musical instruments. No. 1,353,460; Sept. 21; v. 278; p. 436.
Dawson, William. (See Williams, William M., assignor.)
Deden, Freda L., Fort Smith, Ark. Typewriter attachment. No. 1,353,150; Sept. 21; v. 278; p. 375.
Defenbaugh, Carl C., Winnemucca, Nev. Combination potato masher and beater. No. 1,353,520; Sept. 21; v. 278; p. 448.
De Froy, Jules. (See Bermier, Henry N., assignor.)
De Lorme, Alfred C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Safety spark-gap for magnetos. No. 1,353,566; Sept. 21; v. 278; p. 457.
Deming, Edwin W., Redding, Conn. Range-finder. No. 1,353,151; Sept. 21; v. 278; p. 376.
Dence, Carl, assignor of one-fourth to M. J. Joyce, Brooklyn, N. Y. Table. No. 1,353,728; Sept. 21; v. 278; p. 490.
Dentists' Supply Company, The. (See Whiteley, George H., Jr., assignor.)
Di Carlo, Donato, Philadelphia, Pa. Talking-machine. No. 1,353,324; Sept. 21; v. 278; p. 409.
Dice, John A., assignor of one-half to D. H. Parker, Espanola, Ontario, Canada. Folding ironing-board. No. 1,353,729; Sept. 21; v. 278; p. 490.
Dieser, Julius N., assignor of one-half to A. L. Silverstein, San Francisco, Calif. Vulcanizing-pad. No. 1,353,383; Sept. 21; v. 278; p. 421.
Dietzel, William, Merrick, N. Y. Combination utensil. No. 1,353,222; Sept. 21; v. 278; p. 389.
Dillon, James L., Leavenworth, Kans., assignor of one-half to F. L. Wendler, St. Louis, Mo. Wrench. No. 1,353,567; Sept. 21; v. 278; p. 457.
Dillon, James L., Leavenworth, Kans., assignor of one-half to F. L. Wendler, St. Louis, Mo. Pipe-vise. No. 1,353,568; Sept. 21; v. 278; p. 458.
Dillon, James L., Leavenworth, Kans., assignor of one-half to F. L. Wendler, St. Louis, Mo. Lifting-sling. No. 1,353,569; Sept. 21; v. 278; p. 458.
Dimmock, Charles, Toronto, Ontario, Canada. Coin-controlled apparatus. No. 1,353,223; Sept. 21; v. 278; p. 390.
Dinesen, Laurits, assignor to Perfection Manufacturing Company, Minneapolis, Minn. Milking apparatus. No. 1,353,570; Sept. 21; v. 278; p. 458.
Dinwiddie, William W., West Orange, N. J. Production of molded articles. No. 1,353,152; Sept. 21; v. 278; p. 376.
Disbrow, Adelbert A., Stevenson, Wash. Writer's aiding device. No. 1,353,730; Sept. 21; v. 278; p. 491.
Diskin, Moses B., New York, N. Y. Resilient wheel. No. 1,353,731; Sept. 21; v. 278; p. 491.
Dobmeier, George, Buffalo, N. Y. Safety-bung. No. 1,353,732; Sept. 21; v. 278; p. 491.
Dodge, William J., San Diego, Calif. Gas turbine-engine. No. 1,353,733; Sept. 21; v. 278; p. 491.
Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Draft mechanism. No. 1,353,224; Sept. 21; v. 278; p. 390.
Dominicus, Cornelis, Baarn, assignor to P. G. Tideman, Apeldoorn, Netherlands. Change-speed gear. No. 1,353,461; Sept. 21; v. 278; p. 436.
Donoghue, Hugh, Munhall, Pa. Apparatus and method for making concrete elements. No. 1,353,225; Sept. 21; v. 278; p. 390.
Dorion, Wilfrid, Charlesbourg, Quebec, Canada. Means to change the speed of driving-pulleys. No. 1,353,153; Sept. 21; v. 278; p. 376.
Dovel, Darley B., Pickerington, Ohio. Exhibiting or sign-display apparatus. No. 1,353,734; Sept. 21; v. 278; p. 491.
Dreibrodt, Otto, Bitterfeld, Germany, assignor to Elektrochemische Werke, G. m. b. H. Method of and apparatus for forming large crystals. No. 1,353,571; Sept. 21; v. 278; p. 459.
Drey Automatic Glass Machine Company. (See Schram, Alexander L., assignor.)
Dreyfus, Henry, London, England. Manufacture of compositions, preparations, or articles having a basis of cellulose acetate. No. 1,353,384; Sept. 21; v. 278; p. 421.
Dreyfus, Henry, London, England. Manufacture of compositions, preparations, or articles having a basis of cellulose acetate. No. 1,353,385; Sept. 21; v. 278; p. 421.
Ducas, Charles. New York, N. Y. Fire-box for boilers. No. 1,353,640; Sept. 21; v. 278; p. 473.
Duffey, Edward M., Kansas City, Mo. Battery-plate support. No. 1,353,154; Sept. 21; v. 278; p. 376.
Duffies, Alfred S., Markesan, Wis., and F. Mead, Chicago, Ill. Cushioned wheel. No. 1,353,325; Sept. 21; v. 278; p. 409.
Duffies, Alfred S., Markesan, Wis. Cushioned-wheel rim. No. 1,353,326; Sept. 21; v. 278; p. 409.

Duffy, James J., Chicago, Ill. Auxiliary rail-support for temporary use. No. 1,353,572; Sept. 21; v. 278; p. 459.

Duggan, Joseph L., Chester, Pa. Game. No. 1,353,462; Sept. 21; v. 278; p. 436.

Dunfield, John D., Petrolia, Ontario, Canada. Shoe-tree. No. 1,353,327; Sept. 21; v. 278; p. 410.

Dunkley Company. (See Dunkley, Samuel J., assignor.)

Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Pitting-knife. No. 1,353,328; Sept. 21; v. 278; p. 410.

Dunlop Rubber Company, The. (See Macbeth, C., and Hardeman, assignors.)

Duodo, Arturo, Genoa, Italy. Evaporating and distilling apparatus. No. 1,353,521; Sept. 21; v. 278; p. 448.

Dupler, John C., Marietta, Pa. Antiskidding device. No. 1,353,329; Sept. 21; v. 278; p. 410.

Dyer, Guy S., Layton, Utah. Leaching-machine. No. 1,353,463; Sept. 21; v. 278; p. 436.

Eaton, Orrin O., Watsonville, Calif. Shipping package. No. 1,353,155; Sept. 21; v. 278; p. 376.

Eaves, Augustus J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph repeating system. No. 1,353,464; Sept. 21; v. 278; p. 437.

Edwards, William A., Chicago, Ill. Two-cycle engine. No. 1,353,465; Sept. 21; v. 278; p. 437.

Egerton, Henry C., Ridgewood, N. J. Molding composite articles. No. 1,353,800; Sept. 21; v. 278; p. 504.

Ehrhart, Raymond N., Edgewood, Pa. Surface condenser. No. 1,353,641; Sept. 21; v. 278; p. 473.

Ehrhart, Raymond N., Edgewood, Pa. Condenser. No. 1,353,642; Sept. 21; v. 278; p. 473.

Elektrochemische Werk G. m. b. H. (See Dreibrodt, Otto, assignor.)

Emerson, Victor H., New York, N. Y. Manufacturing sound-records. No. 1,353,522; Sept. 21; v. 278; p. 448.

Emery, Ralph T., Cleveland, Ohio. Trunk-band. No. 1,353,814; Sept. 21; v. 278; p. 506.

Enright, John W., New Orleans, La. Stationary chemical-mixing fire-extinguisher system. No. 1,353,466; Sept. 21; v. 278; p. 437.

Erb, Emil, New York, N. Y. Household article. No. 1,353,386; Sept. 21; v. 278; p. 421.

Erickson, Erick, Minneapolis, Minn. Bag-holder. No. 1,353,330; Sept. 21; v. 278; p. 410.

Erpenbeck, Theodore C., Chicago, Ill. Buckle. No. 1,353,331; Sept. 21; v. 278; p. 410.

Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Antenna structure. No. 1,353,735; Sept. 21; v. 278; p. 491.

Espinoza, Romolo J., Rosa, N. Mex. Cultivator. No. 1,353,574; Sept. 21; v. 278; p. 459.

Esmarian, Garabed, and K. Kafafian, Paterson, N. J. Demountable rim. No. 1,353,573; Sept. 21; v. 278; p. 459.

Eubanks, Sayers D., Hillsboro, N. C. Check for pickersticks for looms. No. 1,353,387; Sept. 21; v. 278; p. 421.

Eustege, Thomas P., Wellington, New Zealand. Door-retainer. No. 1,353,523; Sept. 21; v. 278; p. 448.

F. O. B. Manufacturing Company. (See Boswell, Fletcher O., assignor.)

Fajman, Wilhelm. (See Vesely, Bedrich, and Fajman.)

Farquhar, Moubray G., and A. H. Hill, Birmingham, England. Automatic firearm. No. 1,353,736; Sept. 21; v. 278; p. 492.

Fenton, John A., North Andover, Mass. Stop-motion. No. 1,353,226; Sept. 21; v. 278; p. 390.

Fietsch, John F., Forest Park, Ill. Device for measuring material for tooth-fillings. No. 1,353,467; Sept. 21; v. 278; p. 437.

Fischer, Howard L. (See Kristofek, F. J., and Fischer.)

Fischer, Joseph H., Milwaukee, Wis. Filling apparatus for electrolytic cells. No. 1,353,332; Sept. 21; v. 278; p. 410.

Fisk, Alfred A., assignor of one-half to A. B. Davis, Pomona, Calif. Door-latch and burglar-alarm. No. 1,353,388; Sept. 21; v. 278; p. 421.

Fitz-Emnire Double Pivot Last Company. (See Whipple, Leland B., assignor.)

Fitzgerald, Maurice F., Winsted, assignor to The Fitzgerald Mfg. Co., Torrington, Conn. Automobile-horn. No. 1,353,575; Sept. 21; v. 278; p. 460.

Fitzgerald Mfg. Co., The. (See Fitzgerald, Maurice F., assignor.)

Fleming, Isaac, and H. S. Hill, assignors, by mesne assignments, to J. J. Mathe, Los Angeles, Calif. Machine for cutting vents in automobile-hoods. No. 1,353,524; Sept. 21; v. 278; p. 449.

Foerster, Arthur R. (See Cohen, S., and Foerster.)

Ford Motor Company. (See Galamb, Joseph, assignor.)

Ford, Paul B., assignor to Market Garden Tractor Co., Minneapolis, Minn. Garden-tractor. No. 1,353,156; Sept. 21; v. 278; p. 377.

Forsythe, Clarence E., Milwaukee, Wis. Safety-catch for cuff-links. No. 1,353,525; Sept. 21; v. 278; p. 449.

Foster Machine Company. (See Holt, F. A., and Kershaw, assignors.)

Frappart, Henry, and J. B. Bouvier, Kincaid, Ill. Rail-clamp. No. 1,353,577; Sept. 21; v. 278; p. 460.

Frank, Harry S., St. Louis, Mo. Making piston-rings. No. 1,353,227; Sept. 21; v. 278; p. 390.

Frank, Harry S., St. Louis, Mo. Manufacturing piston-rings. No. 1,353,576; Sept. 21; v. 278; p. 460.

Freedman, Isadore. (See Natkiel, H., and Freedman.)

Freeman, Russell M., Detroit, Mich. Convertible vehicle-body. No. 1,353,157; Sept. 21; v. 278; p. 377.

Frengle, Fred, Cotati, Calif. Rotary sheet-metal cutter. No. 1,353,526; Sept. 21; v. 278; p. 449.

Fulcher Pulp Bottle Company, The. (See Fulcher, William H., assignor.)

Fulcher, William H., assignor to The Fulcher Pulp Bottle Company, Oakland, Calif. Machine for forming pulp hollow ware. No. 1,353,578; Sept. 21; v. 278; p. 460.

Fullenlove, McClellan C., assignor to Perfect Projection Shutter Company, Inc., Louisville, Ky. Motion-picture shutter. No. 1,353,527; Sept. 21; v. 278; p. 449.

Fuller, Eugene, Providence, R. I. Bed-bottom. No. 1,353,579; Sept. 21; v. 278; p. 460.

Gaeng, Anna E., Bloomingdale, N. Y. Yarn-holder. No. 1,353,528; Sept. 21; v. 278; p. 449.

Galamb, Joseph, assignor to Ford Motor Company, Detroit, Mich. Electric switch. No. 1,353,580; Sept. 21; v. 278; p. 460.

Gallagher, Richard D., Jr., New York, N. Y. Friction draft-gear for railway-cars. No. 1,353,529; Sept. 21; v. 278; p. 450.

Gamewell Fire Alarm Telegraph Company, The. (See Cole, Frederick W., assignor.)

Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-mandrel and producing same. No. 1,353,158; Sept. 21; v. 278; p. 377.

Gardner, William A. (See Webb, B., and Gardner.)

Gasser, Joseph, and A. H. Barber, Trenton, N. J. Raising and lowering device. No. 1,353,737; Sept. 21; v. 278; p. 492.

Gates, Sylvester A., Detroit, Mich. Automobile-curtain. No. 1,353,468; Sept. 21; v. 278; p. 437.

Gaunt, Charles F., Birmingham, England. Naval, military, and other metallic badges. No. 1,353,228; Sept. 21; v. 278; p. 391.

Gaviak, Joseph G., Monongahela, Pa. Toy vehicle. No. 1,353,581; Sept. 21; v. 278; p. 461.

Geary, Henry H., Fostoria, Ohio. Salesman's Portable office. No. 1,353,530; Sept. 21; v. 278; p. 450.

Gemsey, Julius O., Montevideo, Minn. Music-leaf turner. No. 1,353,582; Sept. 21; v. 278; p. 461.

General Electric Company. (See Bergman, Sven R., assignor.)

General Electric Company. (See Heisler, Charles L., assignor.)

General Electric Company. (See Otis, Albert N., assignor.)

General Electric Company. (See Steenstrup, Christian, assignor.)

General Electric Company. (See Wagner, R. E., and Laird, assignors.)

General Electric Company. (See Winter, Fred H., assignor.)

General Fireproofing Company, The. (See Coryell, William C., assignor.)

George, Frank L., Los Angeles, Calif. Damper for grand-piano actions. No. 1,353,643; Sept. 21; v. 278; p. 474.

George, Frank L., Los Angeles, Calif. Damper for upright-piano actions. No. 1,353,644; Sept. 21; v. 278; p. 474.

George, Frank L., Los Angeles, Calif. Pianissimo device for upright-piano actions. No. 1,353,645; Sept. 21; v. 278; p. 474.

George, Frank L., Los Angeles, Calif. Touch-regulator for grand-piano actions. No. 1,353,646; Sept. 21; v. 278; p. 474.

George, Frank L., Los Angeles, Calif. Action for grand pianos. No. 1,353,647. Sept. 21; v. 278; p. 475.

George, Frank L., Los Angeles, Calif. Action-bracket for grand pianos. No. 1,353,648; Sept. 21; v. 278; p. 475.

George, Frank L., Los Angeles, Calif. Combination jack-spring and touch-regulator for upright-piano actions. No. 1,353,649; Sept. 21; v. 278; p. 475.

Georgeson, Frank, Red Granite, Wis. Hayrack. No. 1,353,299; Sept. 21; v. 278; p. 391.

Gervais, Wainwright B., assignor to Variety Manufacturing Company, Chicago, Ill. Counterbalanced fire-shutter. No. 1,353,333; Sept. 21; v. 278; p. 411.

Gesiani, Telesforo C., Olongapo, Zamb, Philippine Islands. Automatic lighter. No. 1,353,334; Sept. 21; v. 278; p. 411.

Getz, Benjamin E., assignor to A. F. Meyer Mfg. Co., Morton, Ill. Grain-elevator. No. 1,353,335; Sept. 21; v. 278; p. 411.

Getz, Benjamin E., assignor to A. F. Meyer Mfg. Co., Morton, Ill. Elevator. No. 1,353,336; Sept. 21; v. 278; p. 411.

Gilbertson, Otto M., La Crosse, Wis. Railway-mail-delivering apparatus. No. 1,353,738; Sept. 21; v. 278; p. 492.

Gillespie, Thomas J., Homestead, assignor of one-half to H. J. Trimble, Pittsburgh, Pa. Collar-fastener. No. 1,353,739; Sept. 21; v. 278; p. 493.

Gillespie, William G., Chicago, Ill. Fuel-saver. No. 1,353,740; Sept. 21; v. 278; p. 493.

Gillette Safety Razor Company. (See Parker, Riley H., assignor.)

Glaser, William H. (See Samuelson, G. B., and Glazer.)

Gold, Michael. (See Schwarzenbach, A. J., and Tucker, assignor.)

Goldstone, Morris, Brooklyn, N. Y. Window-cleaner. No. 1,353,741; Sept. 21; v. 278; p. 493.

Gonsky, Peter R., Chicago, Ill. Combination phonograph and lamp. No. 1,353,469; Sept. 21; v. 278; p. 438.

Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)

Goodwin, Hall, Chicago, Ill. Fire-prevention device for motion-picture apparatus. No. 1,353,389; Sept. 21; v. 278; p. 422.

Gordon, Thomas, Philadelphia, Pa. Curling hair or similar fibrous material. No. 1,353,837; Sept. 21; v. 278; p. 412.

Gould Coupler Company. (See Craveling, John L., assignor.)

Gove, Edward H., Biddeford, Me. Tank-siphon. No. 1,353,230; Sept. 21; v. 278; p. 391.

Grant, Josceline C. H., Chania Bridge, British East Africa. Spring-fitting for vehicle-axles. No. 1,353,470; Sept. 21; v. 278; p. 438.

Graves, George W., assignor to The Graves Supply Company, Cincinnati, Ohio. Stove. No. 1,353,743; Sept. 21; v. 278; p. 493.

Graves Supply Company, The. (See Graves, George W., assignor.)

Gravatt, Charles M., Port Royal, Va. Marking device. No. 1,353,742; Sept. 21; v. 278; p. 493.

Grieshamer, John, Jacksonville, Fla. Automobile-light dimmer. No. 1,353,231; Sept. 21; v. 278; p. 391.

Griffin, W. H., and O. C. Hartsough, Canton, Ohio. Convertible interior of automobiles. No. 1,353,232; Sept. 21; v. 278; p. 391.

Griffith, Raymond W., Milwaukee, Wis. Combination-lock. No. 1,353,583; Sept. 21; v. 278; p. 461.

Grikscheit, William, Detroit, Mich. Priming-cup. No. 1,353,584; Sept. 21; v. 278; p. 461.

Grosvold, Fred E., Eau Claire, Wis. Humidifying-radiator unit. No. 1,353,744; Sept. 21; v. 278; p. 494.

Grotz, Charles A., Chicago, Ill. Transmission mechanism. No. 1,353,890; Sept. 21; v. 278; p. 422.

Groves, Barnett W., St. Petersburg, Fla. Combined pail and sprinkler. No. 1,353,650; Sept. 21; v. 278; p. 475.

Goewey, Philip W. (See Reed, Walter C., assignor.)

Guarantee Visible Measure Sales Company. (See Townsend, William S., assignor.)

Guertler, George J., Cincinnati, Ohio. Flytrap. No. 1,353,233; Sept. 21; v. 278; p. 392.

Gunn, Fred W., Dedham, Mass. Hose-clamping tool. No. 1,353,338; Sept. 21; v. 278; p. 412.

Gustaffson, Art, Moline, Ill. Folding umbrella. No. 1,353,234; Sept. 21; v. 278; p. 392.

Guver, Joseph A., Marion, Ind. Electric iron. No. 1,353,471; Sept. 21; v. 278; p. 438.

Haase, Arnold, San Francisco, Calif. Foundry practice. No. 1,353,472; Sept. 21; v. 278; p. 438.

Hagen, Lars J., Portland, Oreg. Ship construction. No. 1,353,235; Sept. 21; v. 278; p. 392.

Hall, Harry M., Willcox, Ariz. Pump. No. 1,353,391; Sept. 21; v. 278; p. 422.

Hall, Stewart E., Akron, assignor of one-third to E. R. Sloan, Maumee, and one-third to E. H. Workinger, Akron, Ohio. Battery-box-forming machine. No. 1,353,339; Sept. 21; v. 278; p. 412.

Halley, John R., Nashville, Iowa. Coin and stamp box. No. 1,353,585; Sept. 21; v. 278; p. 461.

Hammer, Charles Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Band catsup-cap. No. 1,353,801; Sept. 21; v. 278; p. 504.

Hammermann, Fred, New York, N. Y. Anchor-bolt. No. 1,353,159; Sept. 21; v. 278; p. 377.

Hampton, James, Southampton, assignor of one-half to John I. Thornycroft and Company Limited, London, England. Means for holding and releasing depth charges, mines, and the like on boats or ships. No. 1,353,652; Sept. 21; v. 278; p. 476.

Handley, George, Palmers Green, assignor to P. W. Bullock, London, England. Rotary pump for pumping liquids. No. 1,353,745; Sept. 21; v. 278; p. 494.

Hanson, Andrew C., Racine, Wis. Rotary safety-razor. No. 1,353,160; Sept. 21; v. 278; p. 377.

Hanson, T. Sophus. (See Nelson, Henry, assignor.)

Harberson, Edward M., Los Angeles, Calif. Yoke construction for leaf-springs. No. 1,353,746; Sept. 21; v. 278; p. 494.

Harbour, Thomas P., and B. B. Brinnon, Bellefontaine, Ohio. Commutator. No. 1,353,392; Sept. 21; v. 278; p. 422.

Hardeman, William E. (See Macbeth, C., and Hardeman.)

Harder, Harry E. (See Newsom, J. N., Harder, and Leschen.)

Harnsberger, John H., Catlett, Va. Rail-joint-coupling device. No. 1,353,653; Sept. 21; v. 278; p. 476.

Harrison, Francis, London, England. Removing film from used metallic-filament electric lamps. No. 1,353,654; Sept. 21; v. 278; p. 476.

Hartman, Charles, Sandwich, Ill., assignor to Sandwich Manufacturing Company. Hay-loader. No. 1,353,586; Sept. 21; v. 278; p. 462.

Hartsough, Oliver C. (See Griffin, W. H., and Hartsough.)

Harwood, Sumpter L., assignor of one-half to T. R. Long, Uniontown, Ala. Paste-dispensing device. No. 1,353,747; Sept. 21; v. 278; p. 494.

Hastings, Odie L. (See Iles, E. J., and Hastings.)

Hatfield, Joseph M., Independence, Kans. Can-covering. No. 1,353,236; Sept. 21; v. 278; p. 392.

Haupt, Mathias, Spokane, Wash. Motor-vehicle. No. 1,353,393; Sept. 21; v. 278; p. 422.

Hawthorne, Ellsworth A., Bridgeport, Conn. Electrical connection. No. 1,353,748; Sept. 21; v. 278; p. 494.

Heady, Thomas J., Cottonwood, Ariz. Window-holder. No. 1,353,655; Sept. 21; v. 278; p. 476.

Heard, Ralph G., Boston, assignor to Tolman Print, Inc., Brockton, Mass. Marking-card for milk-bottles. No. 1,353,531; Sept. 21; v. 278; p. 450.

Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Saliva-ejector. No. 1,353,587; Sept. 21; v. 278; p. 462.

Hedström, Herman O., Djursholm, Sweden. Producing compounds of radium. No. 1,353,532; Sept. 21; v. 278; p. 450.

Heenan & Froude. (See Walker, George H., assignor.)

Hegarty, William J., Lawsonville, Cork, Ireland. Hand or armpit support for water-closets. No. 1,353,749; Sept. 21; v. 278; p. 494.

Heidorf, Christopher J., Hudson Falls, N. Y. Wall-paper finish. No. 1,353473; Sept. 21; v. 278; p. 438.

Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Fluid-operated motor. No. 1,353,656; Sept. 21; v. 278; p. 476.

Heitler, Kurt, New York, N. Y. Garment-protector. No. 1,353,750; Sept. 21; v. 278; p. 495

Heltzenreder, Jacob, Jr., Detroit, Mich. Upholstering. No. 1,353,340; Sept. 21; v. 278; p. 412.

Hershaw, Grindrod. (See Holt, F. A., and Hershaw.)

Hershey, Harry E. (See Yanochowski, G. A., and Hershey.)

Hessel, William F., New York, N. Y. Electrical switch device. (Reissue.) No. 14,950; Sept. 21; v. 278; p. 507.

Heywood, Vincent E, Worcester, Mass. Making window-envelops. No. 1,353,588; Sept. 21; v. 278; p. 462.

Hildebrand, Richard E., Chicago, Ill. Spark-plug intensifier. No. 1,353,657; Sept. 21; v. 278; p. 477.

Hill, Arthur H. (See Farquhar, M. G., and Hill.)

Hill, Hugh S. (See Fleming, I., and Hill.)

Him, Thomas P. (See Hoffman, E. A., and Him.)

Hoe, R., and Co. (See Reynolds, Howard, assignor.)

Hoffman, Edwin A., and T. P. Him, Wilkes-Barre, Pa. Rail-bond for electric railways. No. 1,353,237; Sept. 21; v. 278; p. 392.

Hoffman, Roscoe C., Argos, Ind. Disk wheel. No. 1,353,161; Sept. 21; v. 278; p. 377.

Holdredge, Henry J., Wilkes-Barre, Pa. Electrical snap-switch. No. 1,353,589; Sept. 21; v. 278; p. 462.

Holden, Edward A. T., Duluth, Minn. Grain-scraper. No. 1,353,341; Sept. 21; v. 278; p. 412.

Hollmann, William H., Loretto, Tenn. Cultivator. No. 1,353,342; Sept. 21; v. 278; p. 413.

Holmes, John H., Anoka, Minn. Winch. No. 1,353,238; Sept. 21; v. 278; p. 393.

Holt, Frank A., Rochdale, and G. Kershaw, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass. Winding-machine. No. 1,353,474; Sept. 21; v. 278; p. 438.

Holt, Frank A., Rochdale, and G. Kershaw, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass. Winding-machine. No. 1,353,475; Sept. 21; v. 278; p. 439.

Holt, Frank A., Rochdale, and G. Kershaw, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass. Yarn-tension device. No. 1,353,476; Sept. 21; v. 278; p. 439.

Honig, Charles A., St. Louis, Mo. Dressing for automobile-tops and the like. No. 1,353,239; Sept. 21; v. 278; p. 393.

Hoodwin, Joseph W., Chicago, Ill. Crimping and folding machine. No. 1,353,590; Sept. 21; v. 278; p. 462.

Hooker Electrochemical Company. (See Marsh, William J., assignor.)

Hope, John F., and E. Lambert, Kansas City, Mo. Process of and apparatus for drying wood veneer or other substances. No. 1,353,591; Sept. 21; v. 278; p. 463.

House, Henry A., Jr., Springfield, Mass., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Wire wheel. No. 1,353,394; Sept. 21; v. 278; p. 423.

House, Henry A., Jr., Springfield, Mass., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Forming wire-spoke nipples. No. 1,353,395; Sept. 21; v. 278; p. 423.

Houston, Albert L., *et al.* (See Lambeth, Acey L., assignor.)

Howard, Allen F. (See Leonard, C. L., and Howard.)

Howard, Frank E., Lamanda Park, Calif. Garment-supporter for hosiery. No. 1,353,592; Sept. 21; v. 278; p. 463.

Huddleston, Loyd E, Kansas City, Mo. Burglar-proof sash-lock. No. 1,353,533; Sept. 21; v. 278; p. 450.

Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,353,534; Sept. 21; v. 278; p. 451.

Hughes, Thomas J., Seattle, Wash. Collapsible rivet-mold. No. 1,353,813; Sept. 21; v. 278; p. 506.

Hutson, James L., Shelbyville, Tenn. Perpetual calendar. No 1,353,751; Sept. 21; v. 278; p. 495.

Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)

Iles, Elijah J., and O. L. Hastings, Alexandria, La. Curing-house for sweet-potatoes. No. 1,353,752; Sept. 21; v. 278; p. 495.

Ingersoll, George B., Detroit, Mich. Selective change-speed gearing and control mechanism. No. 1,353,240; Sept. 21; v. 278; p. 393.

Ingersoll-Rand Company, The. (See Bancel, Paul A., assignor.)

Ingersoll-Rand Company. (See Stage, Harold I., assignor.)

Ingram, Alfred, and H. I., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,396; Sept. 21; v. 278; p. 423.

Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,397; Sept. 21; v. 278; p. 423.

Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for tumblers, jars, bottles, and other receptacles. No. 1,353,398; Sept. 21; v. 278; p. 424.

Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles and other receptacles. No. 1,353,399; Sept. 21; v. 278; p. 424.

Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,400; Sept. 21; v. 278; p. 424.

Ingram, Harry. (See Ingram, Alfred and H.)

Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)

Inman Manufacturing Company. (See Joslin, Frank M., assignor.)

International Cork Company. (See Alberti, Emilio, assignor.)

International Torpedo Boat Corporation. (See Shearer, William B., assignor.)

Isgrig, Walter V., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile- bumper. No. 1,353,241; Sept. 21; v. 278; p. 393.

Jacobsson, Axel T., Cleveland, Ohio. Frame for moving-picture screens. No. 1,353,242; Sept. 21; v. 278; p. 393.

James, Henry V., Radlett, England. Controlling means for electromagnetic feed-reel brakes. No. 1,353,401; Sept. 21; v. 278; p. 424.

James, Willard C., Los Angeles, Calif., assignor to F. L. Belknap, Chicago, Ill. Vertically-pivoted wall-bed. No. 1,353,162; Sept. 21; v. 278; p. 378.

James, Willard C., Los Angeles, Calif., assignor to F. L. Belknap, Chicago, Ill. Screened bed having vertical pivots. No. 1,353,163; Sept. 21; v. 278; p. 378.

James, William A., Providence, R. I. Hair-cutter. No. 1,353,243; Sept. 21; v. 278; p. 393.

Jameson, Charles V., Chicago, Ill. Pneumatic action for musical instruments. No. 1,353,753; Sept. 21; v. 278; p. 495.

Jamieson, Frank F., Montreal, Quebec, Canada, assignor to Mechanical Rubber Company. Apparatus for making tobacco-pouches. No. 1,353,477; Sept. 21; v. 278; p. 439.

Jansen, Theodore W., Des Moines, Iowa. Machine for burning in and burnishing engine-bearings. No. 1,353,164; Sept. 21; v. 278; p. 378.

Jayne, Robert K., Jackson, Miss. Sleeping-cabinet. No. 1,353,754; Sept. 21; v. 278; p. 495.

Jefferson, Benjamin H., and W. I. Kirk, assignors to Lyon & Healy, Chicago, Ill. Piano-pedal and like device. No. 1,353,755; Sept. 21; v. 278; p. 496.

Jeffries, Oscar S., Sr., assignor of one-half to G. W. Kirk, Philadelphia, Pa. Muffler. No. 1,353,478; Sept. 21; v. 278; p. 439.

Joerns, Cora A. (See Joerns, Frederick, assignor.)

Joerns, Frederick, assignor to C. A. Joerns, St. Paul, Minn. Hydraulic hoist. No. 1,353,244; Sept. 21; v. 278; p. 394.

Johanson, Charles, Dover, N. J. Pattern-controlled mechanism. No. 1,353,756; Sept. 21; v. 278; p. 496.

Johnson, Carl E., St. Paul, Minn. Combined engine and vehicle frame. No. 1,353,245; Sept. 21; v. 278; p. 394.

Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company. Sound-box for sound recording and reproducing machines. No. 1,353,479; Sept. 21; v. 278; p. 439.

Johnson, John, Brooklyn, N. Y. Mixer. No. 1,353,165; Sept. 21; v. 278; p. 378.

Johnson, John, Brooklyn, N. Y. Rapid dissolver. No. 1,353,166; Sept. 21; v. 278; p. 378.

Johnston, Samuel C., Lancaster, S. C. Knock-off mechanism for looms. No. 1,353,343; Sept. 21; v. 278; p. 413.

Jonassen, Alfred C. and N., Whakatane, New Zealand. Resilient tire. No. 1,353,757; Sept. 21; v. 278; p. 496.

Jorgenson, John, Racine, Wis. Spark-plug. No. 1,353,593; Sept. 21; v. 278; p. 463.

Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Machine for making partitions for boxes. No. 1,353,344; Sept. 21; v. 278; p. 413.

Joyce, Michael J. (See Dence, Carl, assignor.)

Kafafian, Krikor. (See Esmarian, G., and Kafafian.)

Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Combined electro-magnetically and manually operable organ-stop. No. 1,353,594; Sept. 21; v. 278; p. 463.

Karl, Ernest, Litchfield, Conn. Adjustable chase and lockup for printing, cutting, and creasing presses. No. 1,353,758; Sept. 21; v. 278; p. 496.

Karechits, Frank, Bridgeport, Conn. Combination-chair. No. 1,353,595; Sept. 21; v. 278; p. 463.

Kaufman, Michael M., and J. P. Lynn, Chicago, Ill., assignors to P. P. Thomas, trustee, Minneapolis, Minn. Mechanical pencil. No. 1,353,345; Sept. 21; v. 278; p. 413.

Keltz, Joseph F., Jersey City, N. J. Eye-shield for automobile-drivers. No. 1,353,759; Sept. 21; v. 278; p. 496.

Kelley, Charles E., and G. D. Speicher, Larksville, borough, Pa. Latch for doors of mine-cars. No. 1,353,760; Sept. 21; v. 278; p. 496.

Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)

Kiefer, Arthur W., Chicago, Ill. Pipe-wrench. No. 1,353,246; Sept. 21; v. 278; p. 394.

Kirk, George W. (See Jeffries, Oscar S., Sr., assignor.)

Kirk, Walter I. (See Jefferson, B. H., and Kirk.)

Kirkpatrick, Gladys L., assignor of one-half to J. E. Robbins, Greensburg, Ind. Boy's pants. No. 1,353,480; Sept. 21; v. 278; p. 440.

Kitselman, Alva L., Muncie, Ind. Wire-fabric machine. No. 1,353,346; Sept. 21; v. 278; p. 413.

Klingback, Adam, Emmett, Idaho. Power-hammer. No. 1,353,347; Sept. 21; v. 278; p. 414.

Klovstad, John A., Hope, N. D. Self-loading coal and grain truck. No. 1,353,247; Sept. 21; v. 278; p. 394.

Knapp, Walter C., assignor to Liberty Bread Slicer, Inc., Rochester, N. Y. Slicing-machine. No. 1,353,802; Sept. 21; v. 278; p. 504.

Knapp, Walter C., assignor to Liberty Bread Slicer, Inc., Rochester, N. Y. Slicing-machine. No. 1,353,803; Sept. 21; v. 278; p. 504.

Knoche, Bernhard N., Valley Stream, N. Y. Spool. No. 1,353,761; Sept. 21; v. 278; p. 497.

Knudsen, Carl H., Brooklyn, N. Y. Internal-combustion engine. No. 1,353,481; Sept. 21; v. 278; p. 440.

Koll, Emil, Cincinnati, Ohio. Piano-flange. No. 1,353,596; Sept. 21; v. 278; p. 464.

Koretzky, Harry M., Brooklyn, N. Y. Portable hand-lamp. No. 1,353,348; Sept. 21; v. 278; p. 414.

Korob, Albert S., Chicago, Ill. Gripper for printing-presses. No. 1,353,808; Sept. 21; v. 278; p. 505.

Kostko, Jaroslaw K., St. Louis, Mo. Dynamo-electric machine. No. 1,353,658; Sept. 21; v. 278; p. 477.

Krafft, Alfred, Honolulu, Hawaii. Direct macerating and juice-straining system. No. 1,353,349; Sept. 21; v. 278; p. 414.

Krause, Arndt M., assignor to Central Scientific Company, Chicago, Ill. Mercurial barometer. No. 1,353,482; Sept. 21; v. 278; p. 440.

Kreutz, Oscar. (See Baisch, R., and Kreutz.)

Krickel, Louis H., Monroe, La. Hairpin. No. 1,353,350; Sept. 21; v. 278; p. 414.

Kristofek, Frank J., and H. L. Fischer, assignors to Brown & Bigelow, St. Paul, Minn. Pencil. No. 1,353,352; Sept. 21; v. 278; p. 415.

Krumland, Edward, Columbus, Nebr. Hauling attachment for automobiles. No. 1,353,762; Sept. 21; v. 278; p. 497.

Kuhnen, Alexander F., Dixon, Ill., assignor to American Wagon Company, Chicago, Ill. Wagon-body. No. 1,353,351; Sept. 21; v. 278; p. 415.

L-W-F Engineering Company. (See Mitchell, Glenn D., assignor.)

Lacoste, Emile, New Orleans, La. Violin attachment. No. 1,353,763; Sept. 21; v. 278; p. 497.

Laird, Wesley E. (See Wagner, R. E., and Laird.)

Lambert, Emma N., assignor of one-half to P. C. Allana, Bethlehem, Pa. Game-board. No. 1,353,764; Sept. 21; v. 278; p. 497.

Lambert, Eric. (See Hope, J. F., and Lambert.)

Lambeth, Acey L., Mineral Wells, assignor of one-half to C. B. Cooper and one-half to A. L. Houston, Dallas, Tex. Underreamer for reaming out producing-sands. No. 1,353,354; Sept. 21; v. 278; p. 415.

Landis, Abraham B., Enfield, Pa. Change-speed transmission. No. 1,353,355; Sept. 21; v. 278; p. 415.

Lang, Donald W., and A. D. Vaughn, Eldred, Pa. Spark-plug. No. 1,353,597; Sept. 21; v. 278; p. 464.

Lapham, Frank W., Cicero, Ill. Carbureting-screen. No. 1,353,248; Sept. 21; v. 278; p. 394.

Lawrence, A. C., Leather Company. (See Libby, Chester D., assignor.)

Lawrence, Athol E. N., Rustenberg, Transvaal, South Africa. Hammer for pianos and similar instruments. No. 1,353,357; Sept. 21; v. 278; p. 416.

Lawrence Sperry Aircraft Company, The. (See Sperry, Lawrence B., assignor.)

La Vercombe, Harley H., Detroit, Mich. Device for expanding reamers. No. 1,353,535; Sept. 21; v. 278; p. 451.

Lavers, Harry I., West Somerville, Mass. Work-holding clamp. No. 1,353,353; Sept. 21; v. 278; p. 415.

Lee, Frank W., Spokane, Wash. Potato-planter. No. 1,353,356; Sept. 21; v. 278; p. 415.

Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Electric switch. No. 1,353,249; Sept. 21; v. 278; p. 394.

Leins, Arthur, *et al.* (See Leins, Karl, assignor.)

Leins, Karl, assignor of one-third to A. Leins, and one-third to F. Reuther, New York, N. Y. Garter. No. 1,353,483; Sept. 21; v. 278; p. 440.

Leonard, Charles L., and A. F. Howard, Ionia, Mich. Beet-topping means. No. 1,353,403; Sept. 21; v. 278; p. 425.

Leschen, William F. (See Newsom, J. N., Harder, and Leschen.)

Lewis, Lloyd V., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,353,250; Sept. 21; v. 278; p. 395.

Lewis, Samuel H., New York, N. Y. Brake for motor-driven vehicles. No. 1,353,806; Sept. 21; v. 278; p. 505.

Lewis, Thomas E., Fort Worth, Tex. Apparatus for preserving and protecting poles and the like. No. 1,353,598; Sept. 21; v. 278; p. 464.

Lewsen, Nicolaus, Portland, Me. Tire-rim-expanding jack. No. 1,353,765; Sept. 21; v. 278; p. 497.

Libby, Chester D., Malden, assignor to A. C. Lawrence Leather Company, Boston, Mass. Jointed welting. No. 1,353,251; Sept. 21; v. 278; p. 395.

Libby, Pearl A., Waldoboro, Me. Tree-protector. No. 1,353,404; Sept. 21; v. 278; p. 425.

Liberty Bread Slicer, Inc. (See Knapp, Walter C., assignor.)

Lichtman, Michael, New York, N. Y. Telescope. No. 1,353,766; Sept. 21; v. 278; p. 498.

Lindsay, John H., Brooklyn, N. Y. Water-seal vacuum-valve. No. 1,353,767; Sept. 21; v. 278; p. 498.

Long, Thomas R. (See Harwood, Sumpter L., assignor.)

Littig, Charles R., Chicago, Ill. Safety device for baling-presses. No. 1,353,252; Sept. 21; v. 278; p. 395.

Livingston, Charles F., and E. E. Lordge, San Jose, Calif. Automobile-signal. No. 1,353,253; Sept. 21; v. 278; p. 395.

Loeffler, John, St. Louis, Mo. Vegetable-cutter. No. 1,353,484; Sept. 21; v. 278; p. 441.

Loomer, Henry M., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding device for rotary cutters. No. 1,353,254; Sept. 21; v. 278; p. 395.

Long, George A., Mooresville, Ind. Machine for handling ensilage. No. 1,353,405; Sept. 21; v. 278; p. 425.

Longtin, William J., Philadelphia, assignor to Allen Hosiery Company, Wayne Junction, Germantown, Philadelphia, Pa. Stocking. No. 1,353,659; Sept. 21; v. 278; p. 477.

Lopez, Edith L., New York, N. Y. Doll. No. 1,353,406; Sept. 21; v. 278; p. 425.

Lordge, Edward E. (See Livingston, C. F., and Lordge.)

Loughlin, Luke, Jersey City, N. J. Radiator. No. 1,353,768; Sept. 21; v. 278; p. 498.

Lovell, Stanley P., Brockton, Mass. Colloid-treated fabric and producing same. No. 1,353,599; Sept. 21; v. 278; p. 464.

Lundqvist, Nils H., assignor of one-half to C. Park, New Haven, Conn. Valve-spring lifter. No. 1,353,255; Sept. 21; v 278; p 396

Luther, William M., Walla Walla, Wash. Dehydrator. No. 1,353,167; Sept. 21; v. 278; p. 378.

Lynn, John P. (See Kaufmann, M. M., and Lynn.)

Lyon & Healy. (See Jefferson, B. H., and Kirk, assignors.)

McArthur, George P., Rockledge, Pa. Pipe-bending mechanism. No. 1,353,168; Sept. 21; v. 278; p. 379.

McBride, James P., Seattle, Wash. Bolting-up and plate-tightening machine. No. 1,353,600; Sept. 21; v. 278; p. 464.

McCarroll, Frank, Dallas, Tex. Foldable landing-gear for aeroplanes. No. 1,353,407; Sept. 21; v. 278; p. 425.

McCormick, Loyd S., Leavenworth, Kans. Automobile-steering-post lock. No. 1,353,408; Sept. 21; v. 278; p. 425.

McDermott, Frank A., Washington, D. C. Extracting oils from the peel of citrus fruits. No. 1,353,169; Sept. 21; v. 278; p. 379.

McEvoy, John P., Sourlake, Tex. Valve structure for oil-wells. No. 1,353,409; Sept. 21; v. 278; p. 426.

McGall, Albert, assignor to Tubal Corporation, New York, N. Y. Safety-razor-blade sharpener. No. 1,353,485; Sept. 21; v. 278; p. 441.

McGhee, Jesse M., Estancia, N. Mex. Convertible wardrobe-bed. No. 1,353,536; Sept. 21; v. 278; p. 451.

McKimmy, Fred, Beaver Dam, Ohio. Fishing-reel. No. 1,353,170; Sept. 21; v. 278; p. 380.

McQuat, Elizabeth, New York, N. Y. Music-chart. No. 1,353,486; Sept. 21; v. 278; p. 441.

McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,353,601; Sept. 21; v. 278; p. 465.

McWilliams, Rowland, Glen Ridge, N. J. Reinforced concrete construction. No. 1,353,770; Sept. 21; v. 278; p. 498.

Macbeth, Colin, and W. E. Hardeman, Birmingham, assignors to The Dunlop Rubber Company, Limited, Westminster, England. Manufacture of solid rubber tires. No. 1,353,769; Sept. 21; v. 278; p. 498.

MacDonald, Angus, Melrose, Mass. Headrest attachment for beds. No. 1,353,537; Sept. 21; v. 278; p. 451.

MacIndoe, John F., Schuylkill Falls, Pa. Grease-cup. No. 1,353,171; Sept. 21; v. 278; p. 380.

Magnolia Company, The. (See Bobo, Walton E., assignor.)

Magnuson, Carl A., Portland, Oreg. Nut-lock. No. 1,353,602; Sept. 21; v. 278; p. 465.

Maguire, William, and A. Bausch, Brooklyn, N. Y. Snap for bracelets. No. 1,353,772; Sept. 21; v. 278; p. 499.

Mahtes, Anthony, Dexterville, Wis., assignor of one-third to J. Maskoliunas and one-third to J. Skinder, Chicago, Ill. Berry-picker. No. 1,353,172; Sept. 21; v. 278; p. 380.

Main, F. P., Cleveland, Ohio. Serving-table. No. 1,353,660; Sept. 21; v. 278; p. 477.

Malby, Seth G., Derby, assignor to Ansonia Manufacturing Company, Ansonia, Conn. Safety-razor. No. 1,353,603; Sept. 21; v. 278; p. 465.

Malcolm, James. (See Preston, J. C., and Malcolm.)

Malik, John, Pittsburgh, Pa. Railway-track construction. No. 1,353,771; Sept. 21; v. 278; p. 499.

Malsbary, Otis G., Parlier, Calif. Track-laying wheel. No. 1,353,256; Sept. 21; v. 278; p. 396.

Mample, Adolph Z., St. Paul, Minn. Electric combination-lock. No. 1,353,257; Sept. 21; v. 278; p. 396.

Manifold Impressions Corporation. (See Cossitt, Malcolm L., assignor.)

Marchius, Christ, Portland, Oreg. Gill-net retriever. No. 1,353,604; Sept. 21; v. 278; p. 465.

Market Garden Tractor Co. (See Ford, Paul B., assignor.)

Marsh, Howard E. (See Starr, E. B., and Marsh.)

Marsh, William J., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Treating copper-bearing alloys. No. 1,353,773; Sept. 21; v. 278; p. 499.

Marshall, George M., Lake Francis, Manitoba, Canada. Submarine-detector. No. 1,353,410; Sept. 21; v. 278; p. 426.

Martin, Louis L., Toronto, Ontario, Canada. Perfumier. No. 1,353,258; Sept. 21; v. 278; p. 396.

Martin-Lumaghi Manufacturing Company. (See Cochran, John J., assignor.)

Maskoliunas, Jacob *et al.* (See Mahtes, Anthony, assignor.)

Mason, Arnold T., Hampstead, London, England. Book. No. 1,353,774; Sept. 21; v. 278; p. 499.

Massoline, Peter D., Jersey City, N. J., and L. Ronca, New York, N. Y. Steering-wheel lock for motor-vehicles. No. 1,353,487; Sept. 21; v. 278; p. 441.

Mathe, Joseph J. (See Fleming, I., and Hill, assignors.)

Maxwell, Thomas A., Chanute, Kans. Hair-cutting device. No. 1,353,173; Sept. 21; v. 278; p. 380.

Mayers, Joseph A., New York, N. Y. Instantaneous water-heater. No. 1,353,174; Sept. 21; v. 278; p. 381.

Mead, Francis. (See Duffies, A. S., and Mead.)

Mechanical Rubber Company. (See Jamieson, Frank F., assignor.)

Meleg, Joseph, Beaver Falls, Pa. Resilient wheel. No. 1,353,175; Sept. 21; v. 278; p. 381.

Metzger, Modeste A., Chicago, Ill. Door. No. 1,353,176; Sept. 21; v. 278; p. 381.

Meyer, A. F., Mfg. Co. (See Getz, Benjamin E., assignor.)

Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus. No. 1,353,815; Sept. 21; v. 278; p. 506.

Meyer, William, Chicago, Ill. Optical apparatus. No. 1,353,259; Sept. 21; v. 278; p. 396.

Mieske, Herman A., Fall Creek, Wis. Four-wheel drive for automobiles and similar vehicles. No. 1,353,411; Sept. 21; v. 278; p. 426.

Miller Rubber Company, The. (See Riley, Ralph E., assignor.)

Mills, Asbery T., Richland, Iowa. Automatic-locking spring-washer. No. 1,353,776; Sept. 21; v. 278; p. 499.

Milwaukee Corrugating Company. (See Whetstone, Frank M., assignor.)

Mitchell, Glenn D., assignor, by mesne assignments, to L-W-F Engineering Company Inc., College Point, N. Y. Strut construction. No. 1,353,538; Sept. 21; v. 278; p. 451.

Molyneux, Fred, Cadishead, England. Variable-speed transmission-gear. No. 1,353,775; Sept. 21; v. 278; p. 499.

Monks, Frederick I., Houston, Tex. Mattress-support. No. 1,353,260; Sept. 21; v. 278; p. 397.

Montgomery, Harry A., Baltimore, Md. Portable testing apparatus for water-distributing systems of railway passenger-cars. No. 1,353,810; Sept. 21; v. 278; p. 506.

Moore, George L. Nut-lock. No. 1,353,777; Sept. 21; v. 278; p. 500.

Moore, James A., assignor of one-half to J. Young, Weir, Kans. Hoop-rolling device. No. 1,353,778; Sept. 21; v. 278; p. 500.

Moore, John T., Eureka, Calif. Trolling-spoon. No. 1,353,779; Sept. 21; v. 278; p. 500.

Morgal, John F., assignor to The E. W. Ross Company, Springfield, Ohio. Cutting and distributing device for silo-fillers. No. 1,353,261; Sept. 21; v. 278; p. 397.

Morris, Elby A., Leetonia, Ohio. Trolley-retriever. No. 1,353,262; Sept. 21; v. 278; p. 397.

Mueller, John G., Dayton, Ohio. Rail-brace. No. 1,353,412; Sept. 21; v. 278; p. 426.

Mueller, John L., St. Louis, Mo. Measuring and cutting mechanism. No. 1,353,661; Sept. 21; v. 278; p. 477.

Mueller, Matilda, Rugby, N. D. Toothbrush. No. 1,353,780; Sept. 21; v. 278; p. 500.

Mulligan, John A., Narragansett Pier, R. I. Envelop-opener. No. 1,353,413; Sept. 21; v. 278; p. 426.

Muncy, David J., Amarillo, Tex. Guard. No. 1,353,811; Sept. 21; v. 278; p. 506.

Munning, A. P., & Co. (See Zucker, Henry L., assignor.)

Murufas, Menelaus G., Los Angeles, Calif. Chrome-rollers for printing presses. No. 1,353,662; Sept. 21; v. 278; p. 477.

Napier, Charles H., Macon, Ga. Target-throwing device. No. 1,353,663; Sept. 21; v. 278; p. 478.

Napolillo, Antonio, Rivesville, W. Va. Check-holding device. No. 1,353,605; Sept. 21; v. 278; p. 466.

Nash Tractor Company. (See Nash, William, assignor.)

Nash, William, assignor to The Nash Tractor Company, Denver, Colo. Auxiliary radiator for automobiles. No. 1,353,263; Sept. 21; v. 278; p. 397.

National Biscuit Company. (See Davidson, Frank B., assignor.)

Natkiel, Harry, and I. Freedman, assignors of one-third to Louis Potemkin, New York, N. Y. Hair-waver. No. 1,353,781; Sept. 21; v. 278; p. 500.

Nelson, Charles, Skykomish, Wash. Lifter. No. 1,353,782; Sept. 21; v. 278; p. 500.

Nelson, Henry, assignor of one-half to T. Sophus Hanson, Northwood, Iowa. Device for recovering pump-cylinders. No. 1,353,177; Sept. 21; v. 278; p. 381.

Newman, W. E., and D. K. Stuart, Ogden, Utah. Flume No. 1,353,264; Sept. 21; v. 278; p. 397.

Newsholme, Norman R., Keighley, England. Doffing mechanism for spinning-frames. No. 1,353,414; Sept. 21; v. 278; p. 427.

Newsom, Joseph N., H. E. Harder, and W. F. Leschen, assignors to Newsom Valve Company, St. Louis, Mo. Pneumatic valve. No. 1,353,415; Sept. 21; v. 278; p. 427.

Newsom Valve Company. (See Newsom, J. N. Harder, and Leschen, assignors.)

Nichols, George R., Jr., deceased, Chicago, Ill.; The Peoples Trust and Savings Bank, Chicago, administrator. Steering and control mechanism for tractors and the like. No. 1,353,606; Sept. 21; v. 278; p. 466.

Nicholson, John C. (See Beattie, Charles W., assignor.)

Niewiarowski, Piotr, Omaha, Nebr. Signal device for vehicles. No. 1,353,359; Sept. 21; v. 278; p. 416.

Norall, Carl A., Ajo, Ariz. Automatic fuel-saver. No. 1,353,664; Sept. 21; v. 278; p. 478.

Nolan, Edmund, Detroit, Mich. Grease-cup. No. 1,353,607; Sept. 21; v. 278; p. 466.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Bohre, Anton C., assignor.)

North East Electric Company. (See Lee, Thomas L., assignor.)

Oakes, Henry W., *et al.* (See Curran, William, assignor.)

Oehm, William N., Michigan City, Ind. Draft-arm. No. 1,353,488; Sept. 21; v. 278; p. 441.

Ohio Brass Company, The. (See Averill, R. G., and Tomlinson, assignors.)

Ohio Brass Company, The. (See Averill, Rex G., assignor.)

Orcutt, C. Blake, New York, N. Y. Roller-towel cabinet. No. 1,353,416; Sept. 21; v. 278; p. 427.

Oshize, Heikichi, Santa Barbara, Calif. Gas-saving and heat-retaining device. No. 1,353,265; Sept. 21; v. 278; p. 398.

Osius, Frederick J. (See Beech, Chester H., assignor.)

Otis, Albert N., Schenectady, N. Y., assignor to General Electric Company. Temperature-controller. No. 1,353,665; Sept. 21; v. 278; p. 478.

Owen, Harry E., Muncie, Ind. Power-transmission device. No. 1,353,178; Sept. 21; v. 278; p. 381.

Page, Frederick H., assignor to Handley Page Limited, London, England. Wing and similar member of aircraft. No. 1,353,666; Sept. 21; v. 278; p. 478.

Page, Handley, Limited. See Page, Frederick H., assignor.)

Palmer, Edward P., Minneapolis, Minn. Reciprocating engine. No. 1,353,539; Sept. 21; v. 278; p. 452.

Palmer, Harry E. (See Brandenburg, Albert F., assignor.)

Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Journal-box for railway-carriages and the like. No. 1,353,489; Sept. 21; v. 278; p. 442.

Pantalek, John, Modesto, Calif. Safety pocket-knife. No. 1,353,490; Sept. 21; v. 278; p. 442.

Park, Carl. (See Lundqvist, Nils H., assignor.)

Parker, Douglass H. (See Dice, John A., assignor.)

Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Screw-thread gage. No. 1,353,608; Sept. 21; v. 278; p. 466.

Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 1,353,609; Sept. 21; v. 278; p. 466.

Parrish, George L., Ricketts, Pa. Talking-machine-top support and release therefor. No. 1,353,540; Sept. 21; v. 278; p. 452.

Parrish, John T., Duluth, Minn. Gear-casing and band-operating device for automobiles. No. 1,353,812; Sept. 21; v. 278; p. 506.

Patterson, John F., Los Angeles, Calif. Educational game. No. 1,353,491; Sept. 21; v. 278; p. 442.

Patterson, John W., Memphis, Tenn. Direction-indicator. No. 1,353,783; Sept. 21; v. 278; p. 501.

Pearman, Robert H., Boston, Mass., assignor to T. E. Steere, Providence, R. I. Camera. No. 1,353,266; Sept. 21; v. 278; p. 398.

Pendleton, Charles E., Enid, Okla. Double-acting power-wrench. No. 1,353,417; Sept. 21; v. 278; p. 427.

Penfield, Raymond C. (See Wallace, William W., assignor.)

Peoples Trust and Savings Bank, The, administrator. (See Nichols, George R., Jr.)

Perfection Manufacturing Company. (See Dinesen, Laurits, assignor.)

Perfect Projection Shutter Company. (See Fullenlove, McClellan C., assignor.)

Pet-Son Pump Company, The. (See Peters, Theodore, assignor.)

Peters, Theodore, assignor to The Pet-Son Pump Company, Ferdinand, Ind. Pump. No. 1,353,492; Sept. 21. v. 278; p. 442.

Peterson, Horace J., Montpelier, Idaho. Selective cooling and heating system for automobile-radiators. No. 1,353,418; Sept. 21 v. 278; p. 428.

Peterson, John, North Mankato, Minn. Stove leg and caster. No. 1,353,784; Sept. 21; v. 278; p. 501.

Petrovitch, John, Cleveland, Ohio. Airplane-wing. No. 1,353,179; Sept. 21; v. 278; p. 382.

Phelps Dodge Corporation. (See Robinson, Eugene C., assignor.)

Pierce, Vinton U. D., Washington, D. C. Rapid-fire gun. No. 1,353,267; Sept. 21; v. 278; p. 398.

Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Eyelet-machine. No. 1,353,493; Sept. 21; v. 278. p. 442.

Platt, John J., Devon, Milford, Conn. Spark-plug. No. 1,353,785; Sept. 21; v. 278; p. 501.

Post, Charles B., New London, Ohio. Automatic controller for steering-gears. No. 1,353,610; Sept. 21; v. 278; p. 467.

Potemkin, Louis. (See Natkiel, H., and Freedman, assignors.)

Potter, George M., *et al.* (See Woodward, William H., assignor.)

Preston, John C., Balmain, near Sydney, and J. Malcolm, Lindfield, near Sydney, New South Wales, Australia Nursery service-wagon. No. 1,353,180; Sept. 21; v. 278; p. 382.

Process Company, The. (See Coast, John W., Jr., assignor.)

Radlsson, Augustin, and P. Berthon; said Radlsson assignor to Societe de Stearinerie et Savonnerie de Lyon, Lyon, France. Method of and apparatus for hydrogenating fatty acids and their glycerids. No. 1,353,419; Sept. 21; v. 278; p. 428.

Ramén, Arthur, Helsingborg, Sweden. Mechanical furnace. No. 1,353,268; Sept. 21. v. 278; p. 398.

Reed, James H., Burns, Oreg. Package-tie. No. 1,353,611; Sept. 21; v. 278; p. 467.

Reed, Walter C., Dalton, assignor to P. W. Goewey, Pittsfield, Mass. Swell-box for pipe-organs. No. 1,353,667; Sept. 21; v. 278; p. 478.

Reeves, Frank N., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,353,612; Sept. 21; v. 278; p. 467.

Reno, Michael J., and A. Scaramella, New Haven, Conn. Crushing-machine. No. 1,353,420; Sept. 21; v. 278; p. 428.

Renton, James H., Philadelphia, Pa. Cop-making apparatus. No. 1,353,613; Sept. 21; v. 278; p. 467.

Retterer, Fred. Harpster, Ohio. Automobile-chock. No 1,353,541. Sept. 21; v. 278; p. 452.

Reuther, Frank, *et al.* (See Leins, Karl, assignor.)

Reynolds, Howard, assignor to R. Hoe and Co., New York, N. Y. Trimming and finishing mechanism. No. 1,353,668; Sept. 21; v. 278; p. 479.

Reynolds, James J. (See Ashenhurst, Harold S., assignor.)

Rhoades, Philip F., New York, N. Y., assignor of one-third to W. M. Welling, Long Valley, N. J. Winding-machine. No. 1,353,269; Sept. 21; v. 278; p. 398.

Rich, Chester A., assignor to The Rich Pump Company, Cincinnati, Ohio. Ladder. No. 1,353,270; Sept. 21; v. 278; p. 399.

Rich Pump Company, The. (See Rich, Chester A., assignor.)

Richards, Brayton G., Chicago, Ill., assignor to Jacques Rousso, Los Angeles, Calif. Towel-rack. No. 1,353,271; Sept. 21; v. 278; p. 399.

Richter, Charles M., Chicago, Ill. Collar. No. 1,353,181; Sept. 21; v. 278; p. 382.

Riley, Ralph E., Akron, Ohio, assignor to The Miller Rubber Company. Manufacture of rubber bathing-caps and analogous articles. No. 1,353,421. Sept. 21; v. 278; p. 428.

Risch, Robert, Milwaukee, Wis. Attachment for digging implements. No. 1,353,494; Sept. 21; v. 278; p. 443.

Robbins, John E. (See Kirkpatrick, Gladys L., assignor.)

Roberts, Drew D., Perry, Fla. Power-transmission attachment for automobiles. No. 1,353,786; Sept. 21; v. 278; p. 501.

Roberts, Eugene, assignor to Sugar Centrifugal Discharger Company, Salt Lake City, Utah. Spray-nozzle. No. 1,353,495; Sept. 21; v. 278; p. 442

Roberts, Joseph I., Prescott, Ariz. Device for arching and fitting semi-elliptic springs. No. 1,353,272; Sept. 21; v. 278; p. 399.

Robinson, Eugene C., Douglas, Ariz., assignor of fifty-five-one-hundredths to Phelps Dodge Corporation. Rabble. No. 1,353,422; Sept. 21; v. 278; p. 428.

Robison, Clinton S., assignor to Aladdin Products Company, Chicago, Ill. Manufacture of dye-soap. No. 1,353,182; Sept. 21; v. 278; p. 382.

Robitsch, Frederick L. (See Viezzi, Luigi, assignor.)

Rodberg, Anders M., Tampa, Fla. Marine steam-turbine. No. 1,353,360; Sept. 21; v. 278; p. 416.

Rogers, William I., Birmingham, England. Body of motor road-vehicles. No. 1,353,787; Sept. 21; v. 278; p. 502.

Rohrgenwerk, G. M. B. H. (See Böhling, Rudolph H., assignor.)

Ronca, Louis. (See Massoline, P. D., and Ronca.)

Roneo Limited. (See Chipperfield, Walter, assignor.)

Roseboom, Jesse G., Cincinnati, Ohio. Signal for motor-vehicles. No. 1,353,361; Sept. 21; v. 278; p. 416.

Rosenberg, Heyman, New York, N. Y. Automobile-wrench combination. No. 1,353,496; Sept. 21; v. 278; p. 443.

Ross, E. W., Company, The. (See Morgal, John F., assignor.)

Ross, Herbert E., Sydney, New South Wales, Australia. Hook-link fastener for eyeleted wearing-apparel. No. 1,353,614; Sept. 21; v. 278; p. 468.

Rousso, Jacques. (See Bagly, William W., assignor.)

Rousso, Jacques. (See Richards, Brayton G., assignor.)

Roy, Camille E., Chicago, Ill. Tray. No. 1,353,273; Sept. 21; v. 278; p. 399.

Royle, Vernon, Paterson, N. J. Attachment for routing-machines. No. 1,353,497; Sept. 21; v. 278; p. 443.

Ruedy, Henry U., Toledo, Ohio. Head equipment for barrels. No. 1,353,183; Sept. 21; v. 278; p. 382.

Safely, Robert P., Oakland, Calif. Direction-indicator. No. 1,353,788; Sept. 21; v. 278; p. 502.

Samuelson, George B., Isleworth, and W. H. Glaser, Tunbridge Wells, England. Railway system. No. 1,353,423; Sept. 21; v. 278; p. 429.

Sandwich Manufacturing Company. (See Hartman, Charles, assignor.)

Santos, Vicente C., Singalong, Manila, Philippine Islands. Shoe-fastener. No. 1,353,424; Sept. 21; v. 278; p. 429.

Savitsky, Constantine, Denver, Colo. Dictionary-key. No. 1,353,615; Sept. 21; v. 278; p. 468.

Scaramella, Albert. (See Reno, M. J., and Scaramella.)

Scelta, Frank, Harrison, N. Y. Window-ventilator. No. 1,353,789; Sept. 21; v. 278; p. 502.

Schernagel, Herman J., Tompkinsville, N. Y., assignor to Elmer A. Sperry, Brooklyn, N. Y. Multiple-expansion internal-combustion engine. No. 1,353,542; Sept. 21; v. 278; p. 452.

Schatte, Charles, New York, N. Y. Brush. No. 1,353,184; Sept. 21; v. 278; p. 382.

Schiappi, John F., Sioux City, Iowa. Emulsifying-machine. No. 1,353,425; Sept. 21; v. 278; p. 429.

Schlegel, George R., New Berlinville, Pa. Milk-bottle holder. No. 1,353,498; Sept. 21; v. 278; p. 443.

Schlueter, Henry W., Los Angeles, Calif. Tunnel construction. No. 1,353,274; Sept. 21; v. 278; p. 399.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Power-barring apparatus. No. 1,353,275; Sept. 21; v. 278; p. 399.

Schoelkopf, Christian P., St. Paul, Minn. Portable door and window fastener. No. 1,353,543; Sept. 21; v. 278; p. 452.

Schossow, Frederick A., Detroit, Mich. Controlling mechanism for flushing-valves. No. 1,353,804; Sept. 21; v. 278; p. 505.

Schram, Alexander L., Hillsboro, Ill., assignor, by mesne assignments, to Drey Automatic Glass Machine Company, St. Louis, Mo. Drop-feeding device for glass-machines. No. 1,353,276; Sept. 21; v. 278; p. 400.

Schram, Alexander L., Hillsboro, Ill. Jar. No. 1,353,277; Sept. 21; v. 278; p. 400.

Schram, Alexander L., Hillsboro, Ill., assignor to Schram Glass Mfg. Co., St. Louis, Mo. Fruit-jar. No. 1,353,278; Sept. 21; v. 278; p. 400.

Schram Glass Mfg. Co. (See Schram, Alexander L., assignor.)

Schulthess, Jacob, Salt Lake City, Utah. Copy-guide. No. 1,353,279; Sept. 21; v. 278; p. 400.

Schwarzenbach, Alwin J., Hasbrouck Heights, and B. W. Tucker, South Orange, N. J.; said Tucker assignor, by mesne assignments, of his right to Michael Gold, New York, N. Y. Machine for shaping artificial-flower petals. No. 1,353,426; Sept. 21; v. 278; p. 429.

Scott-Paine, Hubert, Southampton, England. Flying-boat or other light marine vessel. No. 1,353,669; Sept. 21; v. 278; p. 479.

Scott, William M., Tredyffrin township, Chester county, Pa. Electrical switching system. No. 1,353,185; Sept. 21; v. 278; p. 383.

Scovill Manufacturing Company. (See Warner, Percy de F. and F. E., assignors.)

Scullin Steel Co. (See Doerr, Harry E., assignor.)

Sealy, Christopher, Brooklyn, N. Y. Automobile pilot-signal. No. 1,353,790; Sept. 21; v. 278; p. 502.

Seguin, Laurent, assignor to Societe Des Moteurs Gnome Et Rhone, Paris, France. Dashboard for motor-vehicles. No. 1,353,427; Sept. 21; v. 278; p. 429.

Seifert, John W., Houston, Tex. Washing-machine. No. 1,353,791; Sept. 21; v. 278; p. 502.

Selander, Gustaf, Chicago, Ill. Clinker-extractor. No. 1,353,428; Sept. 21; v. 278; p. 430.

Semon, William H., Minneapolis, Minn. Device for securing protecting-jackets upon cans. No. 1,353,280; Sept. 21; v. 278; p. 401.

Service Caster & Truck Company, The. (See Chestnutt, John L., assignor.)

Severns, William, Chicago, Ill. Polishing apparatus. No. 1,353,423; Sept. 21; v. 278; p. 430.

Sharp, Robert H., Chicago, Ill. Vanity-case. No. 1,353,281; Sept. 21; v. 278; p. 401.

Shearer, William B., New York, N. Y., assignor to International Torpedo Boat Corporation, Wilmington, Del. Gun-mount for boats. No. 1,353,499; Sept. 21; v. 278; p. 444.

Shipton, James D., Vancouver, British Columbia, Canada. Zinc-reduction furnace. No. 1,353,362; Sept. 21; v. 278; p. 417.

Shoemaker, George W., Dalton, Pa. Washboard. No. 1,353,792; Sept. 21; v. 278; p. 502.

Shrauger, Adelia G., Odanah, Wis. Jar-lifter. No. 1,353,282; Sept. 21; v. 278; p. 401.

Shuff, John, Waukesha Wis. Woodworking sticker or molder-head. No. 1,353,616; Sept. 21; v. 278; p. 468.

Sibbald, Charles J., T. A., and J. O., Troy, N. Y. Loop-transferring device. No. 1,353,793; Sept. 21; v. 278; p. 503.

Sibbald, Charles T. A. (See Sibbald, C. J., C. T. A., and J. O.)

Sibbald, John O. (See Sibbald, C. J., C. T. A., and J. O.)

Sigler, Charles J., Honey Creek, Iowa. Surgical forceps. No. 1,353,430; Sept. 21; v. 278; p. 430.

Silsbee, Joseph L., Salt Lake City, Utah. Recovering potassium chlorid from brine. No. 1,353,283; Sept. 21; v. 278; p. 401.

Silverstein, Albert L. (See Dieser, Julius N., assignor.)

Simon, Henry, Filer, Idaho. Frame for a plurality of pictures. No. 1,353,363; Sept. 21; v. 278; p. 417.

Sims, James F., Kansas City, Mo. Dust-collector. No. 1,353,431; Sept. 21; v. 278; p. 430.

Skinder, J., *et al.* (See Mahtes, Anheny, assignor.)

Slack, Newman F. (See Buchanan, F. R. and Slack.)

Sleeper & Hartley. (See Sleeper, Frank H., assignor.)

Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Tube-coiling machine. No. 1,353,186; Sept. 21; v. 278; p. 383.

Sloan, E. R., *et al.* (See Hall, Stewart E., assignor.)

Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway mail-delivery. No. 1,353,284; Sept. 21; v. 278; p. 401.

Smith, James T., Tacoma, Wash. Derailment-brake. No. 1,353,794; Sept. 21; v. 278; p. 503.

Smith, John B., South Orange, N. J. Means for promoting combustion. No. 1,353,432; Sept. 21; v. 278; p. 430.

Smith, Launcelot E., South Shields, C. Zulver, London, and H. A. Thompson, North Shields, England. Liquid-fuel fitting for furnace-fronts. No. 1,353,795; Sept. 21; v. 278; p. 503.

Smith, Raymond D., assignor to Tremont Products Company, Boston, Mass. Multisocket switch. No. 1,353,433; Sept. 21; v. 278; p. 430.

Snelling, Walter O., Allentown, Pa. Initial detonating agent. No. 1,353,805; Sept. 21; v. 278; p. 505.

Societe de Stearinerie et Savonnerie de Lyon. (See Radisson, A. and Berthon, assignors.)

Societe Des Moteurs Gnome Et Rhone. (See Seguin, Laurent, assignor.)

Sommer, Otto, assignor to Stauwerke A.-G., Zurich, Switzerland. Reversible weir. No. 1,353,285; Sept. 21; v. 278; p. 401.

Sowers, George S., Spring Hill, Kans. Train-check railway-ticket. No. 1,353,286; Sept. 21; v. 278; p. 402.

Speicher, Gustave D. (See Kelley, C. E., and Speicher.)

Spelling, Thomas C., New York, N. Y. Combination bottle and closure. No. 1,353,187; Sept. 21; v. 278; p. 383.

Sperry, Elmer A. (See Scharnagel, Herman J., assignor.)

Sperry, Lawrence B., Brooklyn, N. Y., assignor to The Lawrence Sperry Aircraft Company, Inc., New York, N. Y. Twin-propeller aeroplane. No. 1,353,544; Sept. 21; v. 278; p. 452.

Spindler, Ferdinand G., New York, N. Y., assignor to A. Traeger, Weehawken, N. J. Colorimeter. No. 1,353,500; Sept. 21; v. 278; p. 444.

Splitdorf Electrical Company. (See De Lorme, Alfred C., assignor.)

Spokane Mail Equipment Company. (See Smith, Herbert E., assignor.)

Stage, Harold I., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-operated percussive tool. No. 1,353,796; Sept. 21; v. 278; p. 503.

Starr, Edward B., and H. E. Marsh, Lompoc, Calif., assignors to Celite Products Company, Los Angeles, Calif. Method and apparatus for cutting bricks or blocks from natural deposits. No. 1,353,188; Sept. 21; v. 278; p. 383.

Stauwerke, A.-G. (See Sommer, Otto, assignor.)

Stebbins, Frank E. (See Coffman, Edward S., assignor.)

Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,353,797; Sept. 21; v. 278; p. 503.

Steenfeldt-Lindholm, Peter, Christiania, Norway. Drying or cooling apparatus. No. 1,353,358; Sept. 21; v. 278; p. 416.

Steere, Thomas E. (See Pearman, Robert H., assignor.)

Stein, Joseph, Philadelphia, Pa. Support for garment-hangers. No. 1,353,287; Sept. 21; v. 278; p. 402.

Stevens, Samuel M., Asheville, N. C. Revolving house. No. 1,353,798; Sept. 21; v. 278; p. 503.

Stokes, Charles L., Milong, via Young, New South Wales, Australia. Carbureter. No. 1,353,288; Sept. 21; v. 278; p. 402.

Stokes, Fremont, Little Rock, Ark. Internal-combustion engine. No. 1,353,289; Sept. 21; v. 278; p. 402.

Stokke, Iver, Sioux Falls, S. D. Compression-air-valve diaphragm. No. 1,353,290; Sept. 21; v. 278; p. 402.

Straessle, Anton, Zurich, Switzerland. Massaging-machine. No. 1,353,809; Sept. 21; v. 278; p. 505.

Straith, John, Richmond, Va. Clothes-drier. No. 1,353,670; Sept. 21; v. 278; p. 479.

Strait, William, Appleton, Wis., assignor to The Cleveland Tractor Company, Euclid, Ohio. Traction-machine. No. 1,353,617; Sept. 21; v. 278; p. 468.

Stroud, Edmund H., Chicago, Ill. Apparatus for supplying powdered fuel to furnaces. No. 1,353,291; Sept. 21; v. 278; p. 403.

Stuart, Charles J., Somerville, Mass. Automatic controlling device. No. 1,353,434; Sept. 21; v. 278; p. 481.

Stuart, David K. (See Newman, W. E., and Stuart.)

Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)

Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,545; Sept. 21; v. 278; p. 453.

Sturtevant, Thomas J., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,546; Sept. 21; v. 278; p. 453.

Sturtevant, Thomas J., Wellesley, assignor, by mesne assignments, to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,547; Sept. 21; v. 278; p. 453.

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,548; Sept. 21; v. 278; p. 453.

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,549; Sept. 21; v. 278; p. 454.

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,550; Sept. 21; v. 278; p. 454.

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,551; Sept. 21; v. 278; p. 454.

Sugar Centrifugal Discharger Company. (See Roberts, Eugene, assignor.)

Supple, Clare M., Boston, Mass. Stocking-supporter. No. 1,353,671; Sept. 21; v. 278; p. 479.

Swann, James E. C., Virginia Beach, Va. Commutation-book. No. 1,353,189; Sept. 21; v. 278; p. 383.

Swanson, Hjalmar, assignor to The B. F. Cummins Perforator Company, Chicago, Ill. Punching-machine. No. 1,353,292; Sept. 21; v. 278; p. 403.

Swanson, Peter, Soudan, Minn. Auxiliary car-step. No. 1,353,364; Sept. 21; v. 278; p. 417.

Sweet, Alvin H., Los Angeles, Calif. Windshield attachment for auto-vehicles. No. 1,353,552; Sept. 21; v. 278; p. 454.

Sweet, Alvin H., Los Angeles, Calif. Side bumper for vehicles. No. 1,353,553; Sept. 21; v. 278; p. 455.

Sweet, Parker H., Boonton, N. J., assignor to The Barker-Sweet Manufacturing Company, Jamaica, N. Y. Gin or linter saw. No. 1,353,435; Sept. 21; v. 278; p. 431.

Sweningson, Louis, *et al.* (See Woodward, William H., assignor.)

Swickard, Frank, assignor of ninety-nine per cent. to L. J. Swickard, Fort Bridger, Wyo. Flytrap. No. 1,353,672; Sept. 21; v. 278; p. 480.

Swickard, Laura J. (See Swickard, Frank, assignor.)

Symes, Henry, Dunedin, New Zealand. Automatic telephone system. No. 1,353,673; Sept. 21; v. 278; p. 480.

Tamm, Alfred M., and J. Tennessen, Jr., Brillion, Wis. Blower-pipe, wind-break, and silage-distributer. No. 1,353,674; Sept. 21; v. 278; p. 480.

Tannehill, Arthur L. (See Copthorne, H. N., and Tannehill.)

Tennessen, John, Jr. (See Tamm, A. M., and Tennessen.)

Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Seam. No. 1,353,554; Sept. 21; v. 278; p. 455.

Thaxton, Guy W., Fairfield, Ala. Signaling system. No. 1,353,436; Sept. 21; v. 278; p. 431.

Thiea, Joseph, Great Bend, Kans. Barge. No. 1,353,190; Sept. 21; v. 278; p. 384.

Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Switch-handle. No. 1,353,675; Sept. 21; v. 278; p. 480.

Thomas-Oberkirch Company, Limited. (See Thomas, William M., assignor.)

Thomas, Philip P., trustee. (See Kaufmann, M. M., and Lynn, assignors.)

Thomas, William M., New York, N. Y., assignor to Thomas-Oberkirch Company, Limited. Direct-vision view-finder for motion-picture cameras. No. 1,353,191; Sept. 21; v. 278; p. 384.

Thompson, Herbert A. (See Smith, L. E., Zulver, and Thompson.)

Thompson, Perry D., Tulsa, Okla. Chain-hook. No. 1,353,676; Sept. 21; v. 278; p. 480.

Thornycroft, John I., and Company. (See Hampton, James, assignor.)

Tideman, Pieter G. (See Dominicus, Cornelis, assignor.)

Tiefel, Charles G. (See Todd, L. M., and Tiefel.)

Tiefel, Charles G., assignor to Todd Protectograph Company, Inc., Rochester, N. Y. Check-writer. No. 1,353,437; Sept. 21; v. 278; p. 431.

Tillman, Ferdinand J., assignor to Typewriting Calculating Attachment Company, St. Louis, Mo. Calculating-machine. No. 1,353,293; Sept. 21; v. 278; p. 403.

Tipker, Ralph, Little York, Ill. Steering means for tractors and other vehicles. No. 1,353,192; Sept. 21; v. 278; p. 384.

Todd, Libanus M., and C. G. Tiefel, assignors, by mesne assignments, to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,353,618; Sept. 21; v. 278; p. 468.

Todd Protectograph Company. (See Tiefel, Charles G., assignor.)

Todd Protectograph Company. (See Todd, L. M., and Tiefel, assignors.)

Tolmon Print, Inc. (See Heard, Ralph G., assignor.)

Tomlinson, Charles H. (See Averill, R. G., and Tomlinson.)

Tomlinson, George E., Winchester, Ky. Flexible coupling. No. 1,353,677; Sept. 21; v. 278; p. 481.

Torrent, John, Jr., Muskegon, Mich. Antifreeze device for radiators. No. 1,353,678; Sept. 21; v. 278; p. 481.

Townsend, William S., assignor to Guarantee Visible Measure Sales Company, Washington, D. C. Liquid-gage. No. 1,352,193; Sept. 21; v. 278; p. 384.

Traeger, Alfred. (See Spindler, Ferdinand G., assignor.)

Tremblay, Patrick F., *et al.* (See Curran, William, assignor.)

Tremont Products Company. (See Smith, Raymond D., assignor.)

Trimble, Harry J. (See Gillespie, Thomas J., assignor.)

Tubal Corporation. (See McGall, Albert, assignor.)

Tucker, Benjamin W. (See Schwarzenbach, A. J., and Tucker.)

Typewriting Calculating Attachment Company. (See Tillman, Ferdinand J., assignor.)

Underhill, Charles R., New Haven, Conn. Gear-shifting mechanism. No. 1,353,438; Sept. 21; v. 278; p. 431.

Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)

Union Special Machine Company. (See Tate, Samuel G., assignor.)

Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)

United Shoe Machinery Company. (See Black, George H., assignor.)

United Shoe Machinery Corporation. (See Loomer, Henry M., assignor.)

Variety Manufacturing Company. (See Gervais, Wainwright B., assignor.)

Vaughn, Arthur D. (See Lang, D. W., and Vaughn.)

Venard, Peter I., Denver, Colo. Fountain mucilage-brush. No. 1,353,679; Sept. 21; v. 278; p. 481.

Vesely, Bedrich, and W. Fajman, New York, N. Y. Shank-button machine. No. 1,353,680; Sept. 21; v. 278; p. 480.

Victor Talking Machine Company. (See Johnson, Eldridge R., assignor.)

Vidaver, Maxwell, New York, N. Y. Apparatus for manufacturing toilet-pins. No. 1,353,294; Sept. 21; v. 278; p. 403.

Viezzi, Luigi, West New York, N. J. Window-seat. No. 1,353,681; Sept. 21; v. 278; p. 481.

Viezzi, Luigi, West New York, assignor of one-half to F. L. Robitsch, Union Hill, N. J. Scriber. No. 1,353,682; Sept. 21; v. 278; p. 481.

Vogelzang, Frank, Rock Valley, Iowa. Flying-machine. No. 1,353,501; Sept. 21; v. 278; p. 444.

Voorhies, Felix E., Dallas, Tex. Cotton-seed-linting machine. No. 1,353,295; Sept. 21; v. 278; p. 403.

Wade, Percy, assignor to The Weldit Company, Washington, D. C. Oil-burner system and torch therefor. No. 1,353,683; Sept. 21; v. 278; p. 482.

Waechter, Charles H., New York, N. Y. Attachment for bathtubs. No. 1,353,313; Sept. 21; v. 278; p. 407.

Wagner, R. E., and W. E. Laird, Pittsfield, Mass., assignors to General Electric Company. Welding-machine. No. 1,353,684; Sept. 21; v. 278; p. 482.

Wagner, William F., North Braddock, Pa. Bolt-keeper. No. 1,353,440; Sept. 21; v. 278; p. 432.

Walker, George H., Worcester, assignor to Heenan & Froude, Limited, Manchester, England. Apparatus for treating gases with liquids. No. 1,353,686; Sept. 21; v. 278; p. 482.

Wallace, William W., Bucyrus, Ohio, assignor to R. C. Penfield, Chicago, Ill. Multiple-tool lathe. No. 1,353,686; Sept. 21; v. 278; p. 482.

Wallis, William F. (See Berry, William O., assignor.)

Walter, Cecil M., Four Oaks, near Birmingham, England. Electrolytic apparatus. No. 1,353,194; Sept. 21; v. 278; p. 384.

Walters, Canard J., Ellamar, Alaska. Turbine-engine. No. 1,353,687; Sept. 21; v. 278; p. 483.

Warner, Frank E. (See Warner, Percy de F., and F. E.)

Warner, P. de F., and F. E. Waterbury, assignors to Scovill Manufacturing Company, New Haven, Conn. Toggle-button. No. 1,353,439; Sept. 21; v. 278; p. 431.

Waterbury Farrel Foundry and Machine Company, The. (See Pierson, William D., assignor.)

Watling, John B., Chicago, Ill. Caster. No. 1,353,195; Sept. 21; v. 278; p. 385.

Webb, B., and W. A. Gardner, Pinetops, N. C. Wire-stretcher. No. 1,353,365; Sept. 21; v. 278; p. 417.

Weber, Jacob L., Chicago, Ill. Knockdown crate or box. No. 1,353,688; Sept. 21; v. 278; p. 483.

Weismantel, Joseph W., Newark, N. J. Combination bed attachment. No. 1,353,502; Sept. 21; v. 278; p. 444.

Weisenreider, John M., Brooklyn, N. Y. Time-controlled lighting device. No. 1,353,441; Sept. 21; v. 278; p. 432.

Weissman, Joseph, New York, N. Y. Washable sanitary napkin. No. 1,353,196; Sept. 21; v. 278; p. 385.

Weldit Company, The. (See Wade, Percy, assignor.)

Welling, William M. (See Rhoades, Philip F., assignor.)

Wendler, Frederick L. (See Dillon, James L., assignor.)

Werder, John F., assignor to Zip Manufacturing Company, Denver, Colo. Grinding compound. No. 1,353,197; Sept. 21; v. 278; p. 385.

Wessell, Fernando A., New York, N. Y. Hammer rest-rail for grand-piano actions. No. 1,353,442; Sept. 21; v. 278; p. 432.

Western Brick Company. (See Butterworth, Frank W., assignor.)

Western Electric Company. (See Clausen, Henry P., assignor.)

Western Electric Company. (See Clement, Louis M., assignor.)

Western Electric Company. (See Eaves, Augustus J., assignor.)

Western Electric Company. (See McQuarrie, James L., assignor.)

Western Electric Company. (See Reeves, Frank N.)

Wheatley, Daniel Y., Hythe, England. Balance agricultural implement. No. 1,353,366; Sept. 21; v. 278; p. 417.

Whelan, Eugene B., Omaha, Nebr. Combined by-pass and relief valve. No. 1,353,296; Sept. 21; v. 278; p. 404.

Whetstone, Frank M., Chicago, Ill., assignor to Milwaukee Corrugating Company, Greenfield, Wis. Expanded-metal machine. No. 1,353,198; Sept. 21; v. 278; p. 385.

Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Sheet-metal shears. No. 1,353,367; Sept. 21; v. 278; p. 418.

White, Henry W., New Orleans, La. Material for building construction. No. 1,353,619; Sept. 21; v. 278; p. 468.

White, S. S., Dental Manufacturing Company, The. (See Heck, George D., assignor.)

Whiteley, George H., Jr., York, Pa., assignor to The Dentists' Supply Company. Artificial tooth. No. 1,353,199; Sept. 21; v. 278; p. 385.

Widmayer, Charles O., Syracuse, N. Y. Mouthpiece for wind musical instruments. No. 1,353,297; Sept. 21; v. 278; p. 404.

Wiener, John A., Rothschild, Wis. Regulator. No. 1,353,298; Sept. 21; v. 278; p. 404.

Wilkie, William H., Detroit, Mich. Tray for lunch-boxes. No. 1,353,689; Sept. 21; v. 278; p. 483.

Willans, George H., Gloucester, England. Combined feed-water heater and steam-superheater for locomotive and other smoke or fire tube boilers. No. 1,353,200; Sept. 21; v. 278; p. 385.

Williams, Edward, Birmingham, England. Controlling mechanism. No. 1,353,368; Sept. 21; v. 278; p. 418.

Williams, Edward, Birmingham, England. Control mechanism. No. 1,353,369; Sept. 21; v. 278; p. 418.

Williams, Frank E., Alhambra, Calif. Friction band-brake. No. 1,353,370; Sept. 21; v. 278; p. 418.

Williams, William M., assignor of one-eighth to William Dawson, Reno, Nev. Distributing mechanism for hay-loaders for wagons. No. 1,353,201; Sept. 21; v. 278; p. 386.

Williams, William M., assignor of one-half to W. Dawson, Reno, Nev. Alfalfa-hay loader. No. 1,353,202; Sept. 21; v. 278; p. 386.

Wilson, Charles, Coventry, England. Coupling. No. 1,353,299; Sept. 21; v. 278; p. 404.

Wilson, Charles W., York, Pa. Process and apparatus for making photographic prints. No. 1,353,690; Sept. 21; v. 278; p. 483.

Wilson, Robert G., Davis, W. Va. Egg-mixer. No. 1,353,443; Sept. 21; v. 278; p. 432.

Winslow, Dion L., Boston, Mass. Page arrangement for books. No. 1,353,371; Sept. 21; v. 278; p. 418.

Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Voltage-regulator for alternating-current generators. No. 1,353,691; Sept. 21; v. 278; p. 483.

Wire Wheel Corporation of America. (See House, Henry A., Jr., assignor.)

Wismer, George C., Santa Barbara, Calif. Sound-board. No. 1,353,555; Sept. 21; v. 278; p. 455.

Wolfe, Paul T., and W. H. Bovard, Los Angeles, Calif. Aeroplane. No. 1,353,692; Sept. 21; v. 278; p. 484.

Wolff, Aaron H., New York, N. Y. Gas-toaster. No. 1,353,203; Sept. 21; v. 278; p. 386.

Wolhaupter, Benjamin, New Rochelle, N. Y. Adjustable rail-anchor. No. 1,353,204; Sept. 21; v. 278; p. 386.

Woodhull, Sereno W., Newport, R. I. Optical cabinet. No. 1,353,372; Sept. 21; v. 278; p. 419.

Woodward, William H., assignor of two-fifths to L. Sweningson and one-fifth to G. M. Potter, Cleveland, Ohio. Rotary internal-combustion engine. No. 1,353,205; Sept. 21; v. 278; p. 386.

Workinger, Earl H., *et al.* (See Hall, Stewart E., assignor.)

Xardell, Charles A., Utica, N. Y. Heater. No. 1,353,556; Sept. 21; v. 278; p. 455.

Yanochowski, George A., Chicago, Ill., and H. E. Hershey, Whitewater, Kans., assignors to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,353,300; Sept. 21; v. 278; p. 404.

Yates, Hubert, Cheam, England. Anticreep device or anchor for railway-rails. No. 1,353,206; Sept. 21; v. 278; p. 387.

Yauck, Alexander, Kansas City, Mo. Collar-button. No. 1,353,444; Sept. 21; v. 278; p. 432.

Yorke, John P., Westminster, London, England. Magnetic deflector for electric arcs in lamps, searchlights, and the like. No. 1,353,693; Sept. 21; v. 278; p. 484.

Young, John. (See Moore, James A., assignor.)

Zakzewski, John S., Fullerton, Nebr. Folding chair. No. 1,353,694; Sept. 21; v. 278; p. 484.

Zaun, George F., San Bernardino, Calif. Car-door ventilator. No. 1,353,301; Sept. 21; v. 278; p. 405.

Zebrowski, Alexander, Stamford, Conn. Shade-bracket. No. 1,353,695; Sept. 21; v. 278; p. 484.

Ziegler, Jacob, Coffeyville, Kans. Combination-tool. No. 1,353,445; Sept. 21; v. 278; p. 433.

Zinser, Charles P., Washington, Ill. Draft connection for earth-stirring implements. No. 1,353,620; Sept. 21; v. 278; p. 469.

Zip Manufacturing Company. (See Werder, John F., assignor.)

Zofsak, John J., Greensburg, Pa. Washing-machine. No. 1,353,302; Sept. 21; v. 278; p. 405.

Zucker, Henry L., East Orange, N. J., assignor to A. P. Munning & Co., New York, N. Y. Buffing and polishing wheel. No. 1,353,207; Sept. 21; v. 278; p. 387.

Zulver, Cornelis. (See Smith, L. E., Zulver, and Thompson.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Accounting Machine Company, New York, N. Y. Memorandum-paper holders. No. 134,869; Sept. 21; v. 278; p. 529.

Acme Ventilator Corporation, Lynn, Mass. Ventilators for exterior use on houses and buildings. No. 134,870; Sept. 21; v. 278; p. 529.

Acorn Battery Company, Chicago, Ill. Electric batteries. No. 134,871; Sept. 21; v. 278; p. 529.

Adjustable Sales Corporation, The, Rochester, N. Y. Children's velocipedes. No. 134,872; Sept. 21; v. 278; p. 529.

Adler, Morris Company, The, Quincy, Ill. Automobiles. No. 134,873; Sept. 21; v. 278; p. 529.

Aidol Medicine Co., New York, N. Y. Liniment for treatment of rheumatism, &c. No. 134,874; Sept. 21; v. 278; p. 529.

Alexander & Irwin Co. Inc. (See Alexander & Irwin Co., assignor.)

Alexander & Irwin Co., Philadelphia, Pa., assignor to Alexander & Irwin Co. Incorporated, New York, N. Y. Hosiery. No. 134,875; Sept. 21; v. 278; p. 529.

Allied Machinery Company of America, New York, N. Y. Wood, fiber, and canvas hand-buckets and bins. No. 134,876; Sept. 21; v. 278; p. 529.

American Hand Rubber Company, Hempstead and New York, N. Y. Hard-rubber pipe-bits, and cigar and cigarette-holders. No. 134,877 Sept. 21; v. 278; p. 529.

American Laboratories Incorporated, Richmond, Va. Cough-syrup preparation. No. 134,878; Sept. 21; v. 278; p. 529.

American Oil Company, The, Providence, R. I. Oil used in the treatment of woolen fabrics. No. 134,879; Sept. 21; v. 278; p. 529.

American Safetee Soap Corporation (now by change of name Safetee Soap Corporation), Brooklyn, N. Y. Soap, shaving sticks, cream, and powder. No. 134,880; Sept. 21; v. 278; p. 529.
American Thermophone Company, Boston, Mass. Telephones and parts thereof. No. 134,881; Sept. 21: v. 278; p. 529.
American Writing Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 134,882; Sept. 21; v. 278; p. 529.
American Writing Paper Company, Holyoke, Mass. Writing-paper and printing-paper. No. 134,883; Sept. 21; v. 278; p. 529.
Anderson, Marl, Preston, Wash. Salve for external application for skin diseases. No. 134,884; Sept. 21; v. 278; p. 529.
Antoine, Arthur, New York, N. Y. Hair-tonic. No. 134,885; Sept. 21; v. 278; p. 529.
Arc-O'-Manufacturing Co., Inc., Chicago. Spark-plugs. Nos. 134,886–7; Sept. 21; v. 278; p. 529.
Atlanta Barbers' Supply Co., The, Atlanta, Ga. Hair-tonic and dandruff-preventive. No. 134,888; Sept. 21; v. 278; p. 529.
Baker R. & L. Company, The, Cleveland, Ohio. Automobiles. No. 134,889; Sept. 21; v. 278; p. 529.
Baker R. & L. Company, The, Cleveland, Ohio. Automobiles—namely, electric passenger-vehicles and trucks. No. 135,174; Sept. 21; v. 278; p. 539.
Bauer & Black, Chicago, Ill. Medicated plasters. No. 134,890; Sept. 21; v. 278; p. 529.
Bayer Company, Inc., The, New York, N. Y. Analgesic and antipyretic. Nos. 134,891–2; Sept. 21; v. 278; p. 529.
Beach, L. E., Baltimore, Md. Cathartic medicine. No. 134,893; Sept. 21; v. 278; p. 529.
Blual Chemical Co., New York, N. Y. Laundry bluing in capsule form. No. 134,894; Sept. 21; v. 278; p. 529.
Boorum & Pease Co., New York, N. Y. Blank books, pads, and tablets. No. 134,895; Sept. 21; v. 278; p. 529.
Brewer, Bert B., New York, N. Y. Women's hats. No. 134,896; Sept. 21; v. 278; p. 529.
Brown, E., & Son (Blacking & Boot Polish Manufacturers) Limited, London, England. Polishes for leather and enameled goods. No. 134,897; Sept. 21; v. 278; p. 530.
Calbreath, Charles E., St. Louis, Mo. Metal-polish. No. 134,898; Sept. 21; v. 278; p. 530.
Carnrick, G. W., Co., New York, N. Y. Medicinal tablet for the treatment of anemia and chlorosis. No. 134,899; Sept. 21; v. 278; p. 530.
Cellucotton Products Company, The, Neenah, Wis. Sanitary napkins. No. 134,900; Sept. 21; v. 278; p. 530
Central Ohio Paper Co., The, Columbus, Ohio. Mailing-envelops, papeteries, and writing-tablets. No. 134,901; Sept. 21; v. 278; p. 530.
Charest, Joseph C. R., Detroit, Mich. Reconstruction-tonic. No. 134,902; Sept. 21; v. 278; p. 530.
Chappell, Alexander W., Red Bank, N. J. General tonic for poultry. No. 134,903; Sept. 21; v. 278; p. 530.
Chatillon, Mouly, Roussel & Co., Lyon, France. Piece goods of silk, wool, linen, &c. No. 134,904; Sept. 21; v. 278; p. 530.
Chelsea Engineering Sales Corporation, New York, N. Y. Abrasive, detergent, and polishing materials. No. 134,905; Sept. 21; v. 278; p. 530.
Chemical Company of America, The, New York, N. Y. Chemical compound for waterproofing textile fabrics. No. 134,906; Sept. 21; v. 278; p. 530.
China, Japan & South America Trading Co. Ltd., New York, N. Y. Cotton piece goods. No. 134,907; Sept. 21; v. 278; p. 530.
Church, Clifford C., Boston, Mass. Toy vehicles. No. 134,908; Sept. 21; v. 278; p. 530.
Citrus Soap Company, San Diego, Calif. Washing-powder. No. 134,909; Sept. 21; v. 278; p. 530.
Clarke, H., & Sons, Inc., Baltimore, Md. Soap. No. 134,910; Sept. 21; v. 278; p. 530.
Cleveland Ignition Company, The, Cleveland, Ohio. Ignition and electric-lighting systems and magnetos for automobiles and repair parts therefor. No. 134,911; Sept. 21; v. 278; p. 530.
Cleveland Tractor Company, Euclid, Ohio. Tractors and parts thereof. No. 135,175; Sept. 21; v. 278; p. 539.
Chalmers Pump & Manufacturing Company, Lima, Ohio. Steam-pumps, pumping machinery, jet and surface condensers. No. 135,176; Sept. 21; v. 278; p. 539.
Chocolate Truffles Co., Portland, Oreg. Chocolate candy. No. 135,177; Sept. 21; v. 278; p. 539.
Clox-Lite Mfg. Company, Inc., Newark, N. J. Automatic circuit-controllers. No. 134,912; Sept. 21; v. 278; p. 530.
Cohen, Philip, New York, N. Y. Sanitary garbage-cans. No. 134,913; Sept. 21; v. 278; p. 530.
Collapeule Company, Inc., The, New York, N. Y. Medicament for the treatment of malignant blood diseases. Nos. 134,914–5; Sept. 21; v. 278; p. 530.
Columbia Refining Co., New York, N. Y. Lubricating oils and greases. No. 134,916; Sept. 21; v. 278; p. 530.
Commercial Shirt Company, New York, N. Y. Cotton and silk piece goods. No. 134,917; Sept. 21; v. 278; p. 530.
Congoleum Company, The. Prepared floor-coverings of the oiled-cloth type. No. 134,918; Sept. 21; v. 278; p. 530.
Conway, Carle C., and Earle E., and Theodore P. Brown, Boston, Mass. Pianos. Nos. 134,919–23; Sept. 21; v. 278; p. 530.
Cooper Underwear Company, Kenosha, Wis. Hosiery. No. 134,924; Sept. 21; v. 278; p. 530.
Cunningham, Mrs. J. C., East Liverpool, Ohio. Ointment for treatment of piles. No. 134,925; Sept. 21; v. 278; p. 530.
D. D. D. Company, Chicago, Ill. Liquid for treatment of eye trouble. No. 134,926; Sept. 21; v. 278; p. 530.
De Burgos Luque, Juan, Aguilar de la Frontara, Spain. Wines. No. 135,005; Sept. 21; v. 278; p. 533.
Dental Products Company, Chicago, Ill. Anaesthetic tablets. No. 134,927; Sept. 21; v. 278; p. 530.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Rubber erasers. Nos. 134,928–9; Sept. 21; v. 278; p. 530.
Dunham Company, The, Berea, Ohio. Soil-tilling machines. No. 134,930; Sept. 20; v. 278; p. 531.
Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 134,931–5; Sept. 21; v. 278; p. 531.
Economy Manufacturing Company, New York, N. Y. Ladies' dresses, skirts, coats, and suits. No. 135,178; Sept. 21; v. 278; p. 539.
Elberfeld Chemical & Mfg. Co., Sandwich, Mass. Ammonia, bluing, bleaching preparation, and disinfectant. No. 134,936; Sept. 21; v. 278; p. 531.
Elcesser-Heynemann Co., San Francisco, Calif. Wearing-apparel—namely, children's play-suits. No. 134,937; Sept. 21; v. 278; p. 531.
Evans, George B., Philadelphia, Pa. Toilet powder. Nos. 134,938–9; Sept. 21; v. 278; p. 531.
Everett Knitting Works, Lebanon, N. H. Knitted underwear, both one and two piece. No. 134,940; Sept. 21; v. 278; p. 531.
Everbest Milling Corporation, Erie, Pa. Cornmeal, bolted meal, buckwheat-flour, wheat, pastry, and Graham flours. No. 134,941; Sept. 21; v. 278; p. 531.
Faire Bros. & Co., Limited, Leicester, England. Elastic webs. No. 134,942; Sept. 21; v. 278; p. 531.
Farese, Raffaele A., Newark, N. J. Hair-invigorator. No. 134,943; Sept. 21; v. 278; p. 531.
Fisher, I., Son & Co., Philadelphia, Pa. Hosiery. No. 134,944; Sept. 21; v. 278; p. 531.
Ford Manufacturing Co., Waterford, N. Y. Knitted underwear. No. 134,945; Sept. 21; v. 278; p. 531.
Forest Paper Company, New York, N. Y. Writing and printing bond-paper, ledger and writing paper, and mailing-envelops. No. 134,946; Sept. 21; v. 278; p. 531.
Forsyth Dental Infirmary for Children, Boston, Mass. Dentifrice. No. 134,947; Sept. 21; v. 278; p. 531.
Freedman, Hyman, Chicago, Ill. Furniture. No. 134,948; Sept. 21; v. 278; p. 531.
Fuerst & Kraemer Limited, New Orleans, La. Candy. No. 134,949; Sept. 21; v. 278; p. 531.
Fulghum & Company, Los Angeles, Calif. Hair-nets. No. 134,950; Sept 21; v. 278; p. 531.
Gallaher, J. F., Dayton, Ohio. Ointment for the treatment of pimples, dandruff, and dry scaly eczema. No. 134,951; Sept. 21; v. 278; p. 531.
Garden, Polly B., New York, N. Y. Hair-tonic and gloss and shampoo preparation. No. 134,952; Sept. 21; v. 278; p. 531.
Garfinkel, Frank, New York, N. Y. Laxative candy. No. 134,953; Sept. 21; v. 278; p. 531.
Gemmer Manufacturing Company, Detroit, Mich. Steering-gears for motor vehicles. No. 135,179; Sept. 21; v. 278; p. 539.
General Rubber Goods Company, The, Cleveland, Ohio. Manufactured rubber merchandise. No. 134,954; Sept. 21; v. 278; p. 531.
Gibson, Joseph E., San Diego, Calif. Photograph-mountings. No. 134,955; Sept. 21; v. 278; p. 531.
Gladney Milling Company, Sherman, Tex. Wheat-flour. No. 134,956; Sept. 21; v. 278; p. 531.
Gloeckler, Louis H., New York, N. Y. Toothache remedies. No. 134,957; Sept. 21; v. 278; p. 531.
Goodyear Tire & Rubber Company, Akron, Ohio. Hose made wholly or in part of rubber. No. 135,180; Sept. 21; v. 278; p. 539.
Gottman, Theodore & Sons, Chicago, Ill. Chocolate candy. No. 135,181; Sept. 21; v. 278; p. 539.
Grace, W. R. & Co., New York, N. Y., San Francisco, Calif. Tea. No. 134,958; Sept. 21; v. 278; p. 531.
Graylawn Farms Company, Waterbury, Vt. Insecticides. No. 134,959; Sept. 21 v. 278; p. 531.
Great Northern Toy Co. Inc., New York, N. Y. Toy hydro- and aero-planes. No. 135,960; Sept. 21; v. 278; p. 531.
Gross, Ignatz, Los Angeles, Calif. Boys' suits, overcoats, and caps. No. 134,961; Sept. 21; v. 278; p. 531.
Hall, Thomas H., Jersey City, N. J. Gloves of leather and fabric. No. 134,962; Sept. 21; v. 278; p. 531.
Hammond Iron Works, Warren, Pa. Oil-tanks. No. 134,963; Sept. 21; v. 278; p. 532.
Harder, Francis C., Plainfield, N. J. Cotton piece goods. No. 135,182; Sept. 21; v. 278; p. 540.
Hawk-Eye Mfg. Company, Dallas, Tex. Polishing preparations for automobiles, carriages, coaches, floors, &c. No. 134,964; Sept. 21; v. 278; p. 532.
Howkeye Oil Company, Waterloo, Iowa. Medicated crude oil for treating cutaneous diseases of animals. No. 134,965; Sept. 21; v. 278; p. 532.

Hexter-Stewart Corporation Company, The, Cleveland, Ohio. Liquid soap. No. 134,966; Sept. 21; v. 278; p. 532.
Hill, Ernest A., San Francisco, Calif. Overalls for children. No. 134,967; Sept. 21; v. 278; p. 532.
Hind & Harrison Plush Co., The, New York and Clark Mills, N. Y. Pile-fabric piece goods. No. 134,968; Sept. 21; v. 278; p. 532.
Hoerner, William M., Harrisburg, Pa. Blank books in which saving-stamps will be pasted. No. 134,969; Sept. 21; v. 278; p. 532.
Holland, William W., Wood River, Ill. Base-metal alloys. No. 134,970; Sept. 21; v. 278; p. 532.
Holt Manufacturing Company, The, Stockton, Calif. Wagons. No. 134,971; Sept. 21; v. 278; p. 532.
Horton Manufacturing Company, The, Bristol, Conn. Fishing-lines. No. 134,972; Sept. 21; v. 278; p. 532.
Howell, Henry M., New York, N. Y. Germicide. No. 134,973; Sept. 21; v. 278; p. 532.
Huber, Joseph M., New York, N. Y. Printing-inks. No. 134,974; Sept. 21; v. 278; p. 532.
Hutchinson, James F., Rochester, N. Y. Telephone-index blank. No. 134,975; Sept. 21; v. 278; p. 532.
Ilg Electric Ventilating Company, Chicago, Ill. Electrically-operated fans and blowers. No. 134,976; Sept. 21; v. 278; p. 532.
Ilg Electric Ventilating Company, Chicago, Ill. Electrically-operated heating and ventilating units. No. 134,977; Sept. 21; v. 278; p. 532.
International Cork Company, Brooklyn, N. Y. Cork disks, washers, and gaskets. No. 134,978; Sept. 21; v. 278; p. 532.
International Salt Co., New York, N. Y. Table-salt. No. 134,979; Sept. 21; v. 278; p. 532.
International Worsted Mills, Methuen, Mass. Light-weight fancy worsted cloth in the piece. No. 134,980; Sept. 21; v. 278; p. 532.
Ionite Storage Battery Co., Worcester, Mass. Electric batteries and parts thereof. No. 134,981; Sept. 21; v. 278; p. 532.
Jeffrey, William R., Boston, Mass. Medicine for gall-stones and gravel. No. 134,982; Sept. 21; v. 278; p. 532.
Jennings & Company, Inc., Boston, Mass. Dyestuffs. No. 134,983; Sept. 21; v. 278; p. 532.
Jordan and Hamble Compounding Company, Houston, Tex. Liniment for the treatment of rheumatism. No. 134,984; Sept. 21; v. 278; p. 532.
Jordan Motor Car Co., Cleveland, Ohio. Automobiles. No. 134,985; Sept. 21; v. 278; p. 532.
Kaufmann Bros. & Bondy, New York, N. Y. Smokers' pipes, cigar, and cigarette holders. No. 134,986; Sept. 21; v. 278; p. 532.
Kayser, Henry, & Fils, Inc., New York, N. Y. Filter-paper. No. 134,987; Sept. 21; v. 278; p. 532.
Keiner & Pohl Company, Milwaukee, Wis. Leather-dressings. No. 134,988; Sept. 21; v. 278; p. 532.
Knight, Charles V., Portsmouth, Va. Chill and fever tonic. No. 134,989; Sept. 21; v. 278; p. 532.
Kunzemann, John J., Brooklyn, N. Y. Automobile-mirrors. No. 134,990; Sept. 21; v. 278; p. 532.
Laakman, Edward M., Farmington, Mo. Preparations for treatment of eczema and other skin and scalp eruptions. No. 134,991; Sept. 21; v. 278; p. 532.
Lange Soap Co., San Antonio, Tex. Soap. No. 134,992; Sept. 21; v. 278; p. 532.
Larivee, Laura J., Detroit, Mich. Scalp-ointment. No. 134,993; Sept. 21; v. 278; p. 532.
Lash's Bitters Co., New York, N. Y. Non-alcoholic beverage. No. 134,994; Sept. 21; v. 278; p. 532.
Laubheim Bros., New York, N. Y. Watches. No. 134,995; Sept. 21; v. 278; p. 532.
Leprince, Maurice, Paris, France. Remedy for the treatment of venereal diseases. No. 134,996; Sept. 21; v. 278; p. 532.
Liberty Hosiery Company, The, Rock Hill, S. C. Men's half-hose. No. 134,997; Sept. 21; v. 278; p. 533.
Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation of hexamethylenamin. No. 134,998; Sept. 21; v. 278; p. 533.
Lilly, Eli, & Company, The, Indianapolis, Ind. Headache-tablets, pills, and capsules. No. 134,999; Sept. 21; v. 278; p. 533.
Lilly, George L., Jacksonville, Fla. General tonic. No. 135,000; Sept. 21; v. 278; p. 533.
Lily Cup Company, The, New York, N. Y. Paper or pulp towels. No. 135,001; Sept. 21; v. 278; p. 533.
Lincoln Manufacturing Company, Detroit, Mich. Ornamental art electric-lighting fixtures. No. 135,002; Sept. 21; v. 278; p. 533.
Ludlow, Bertha A., Caldwell, N. J. Dry medicated asthma and bronchial shields. No. 135,003; Sept. 21; v. 278; p. 533.
Ludwig, Arthur J., New York, N. Y. Textile fabrics. No. 135,004; Sept. 21; v. 278; p. 533.
McClaren Rubber Company, Charlotte, N. C. Rubber or rubber and fabric tires and tubes for vehicles. No. 135,006; Sept. 21; v. 278; p. 533.
McNeal, Janet C., Washington, D. C. Corsets and abdominal supporters. No. 135,007; Sept. 21; v. 278; p. 533.
M W M Soap Co., San Jose, Calif. Soap. No. 135,008; Sept. 21; v. 278; p. 533.
Macbeth-Evans Glass Company, Pittsburgh, Pa. Glass dishes. No. 135,009; Sept. 21; v. 278; p. 533.
Macy, R. H., & Co. Inc., New York, N. Y. Children's one-piece sleeping-suits. No. 135,010; Sept. 21; v. 278; p. 533.
Marshalltown Syrup & Sugar Company, Marshalltown, Iowa. Toppings for ice-cream. No. 135,183; Sept. 21; v. 278; p. 540.
Martin, Arda N., Baltimore, Md. Remedy for war-wounds, old sores, burns, and abscesses. No. 135,011; Sept. 21; v. 278; p. 533.
Meltow Medicine Company, Inc., McBee, S. C. Compound of medicine for the treatment of liver, kidney, and stomach troubles. No. 135,012; Sept. 21; v. 278; p. 533.
Middlesex County Creamery Co., Boston, Mass. Oleomargarin. No. 135,013; Sept. 21; v. 278; p. 533.
Miller, Edward, & Co., Meriden, Conn. Electric-lighting fixtures and lamps. No. 135,014; Sept. 21; v. 278; p. 533.
Mills Brothers Company, The, Cincinnati, Ohio. Soap. No. 135,015; Sept. 21; v. 278; p. 533.
Moldenhauer, Henry R., Watertown, Wis. Brick-cheese. No. 135,016; Sept. 21; v. 278; p. 533.
Moore & Thompson Paper Company, Bellows Falls, Vt. Wrapping-paper. No. 135,017; Sept. 21; v. 278; p. 533.
Morey and Company, Cambridge, Mass. Finished paper-stock, book-paper, newspaper, and wrapping-paper. No. 135,018; Sept. 21; v. 278; p. 533.
Morris & Yeomans, Limited, Redditch, England. Boot-drivers, boot-awls, machinery-springs. No. 135,019; Sept. 21; v. 278; p. 533.
Moss, Henry, & Co. Inc., New York, N. Y. Stencils, oil-board, wax seals, and rubber bands. No. 135,020; Sept. 21; v. 278; p. 533.
Nakayama, Toyozo, Osaka, Japan. Stationery. No. 135,021; Sept. 21; v. 278; p. 533.
Napco Corporation, Indianapolis, Ind. Pastelike preparation for shaving and skin-healing purposes. No. 135,022; Sept. 21; v. 278; p. 533.
National Papeterie Company, Springfield, Mass. Writing-paper and envelops. No. 135,023; Sept. 21; v. 278; p. 533.
New York Boat Oar Co., Inc., New York, N. Y. Oars, sweeps, and sculls. No. 135,024; Sept. 21; v. 278; p. 533.
Novelty Incandescent Lamp Company, Emporium, Pa. Incandescent electric lamps. No. 135,025; Sept. 21; v. 278; p. 533.
Novelty Knitting Mills, Milwaukee, Wis. Knitted caps, sweaters, gloves, and mittens. No. 135,026; Sept. 21; v. 278; p. 533.
Omega Chemical Company, The, New York, N. Y. Soaps. No. 135,027; Sept. 21; v. 278; p. 533.
Oppenheimer, Charles, Philadelphia, Pa. Hair-nets. No. 135,184; Sept. 21; v. 278; p. 540.
Pacific Coast Borax Co., New York, N. Y. Soap and soap chips. No. 135,028; Sept. 21; v. 278; p. 533.
Palmyra Knitting Company, Palmyra, N. J. Women's knit napkins. No. 135,029; Sept. 21; v. 278; p. 533.
Pantasote Leather Company, The, Passaic, N. J. Waterproof fabrics in the piece. Nos. 135,030–1; Sept. 21; v. 278; p. 534.
Paper Mills' Company, The, Chicago, Ill. Writing and printing paper and writing-tablets. No. 135,032; Sept. 21; v. 278; p. 534.
Par Po Mfg. Co., Detroit, Mich. Parcel-post packages. No. 135,033; Sept. 21; v. 278; p. 534.
Parkhill Mfg. Co., Fitchburg, Mass. Ginghams and cotton piece goods. No. 135,034; Sept. 21; v. 278; p. 534.
Paristyle Novelty Co. Inc., New York, N. Y. Hair-nets. No. 135,035; Sept. 21; v. 278; p. 534.
Parsons & Whittemore Inc., New York, N. Y. Writing, printing, blotting, and wrapping papers. No. 135,036; Sept. 21; v. 278; p. 534.
Pearson Products Corporation, New York, N. Y. Tobacco-pouches. No. 135,037; Sept. 21; v. 278; p. 534.
Peck, A. E., Manufacturing Company, Minneapolis, Minn. Tooth-paste and tooth-powder. No. 135,038; Sept. 21; v. 278; p. 534.
Peck, Samuel W., & Co., New York, N. Y. Young men's three-piece suits. No. 135,039; Sept. 21; v. 278; p. 534.
Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate and candy. No. 135,185; Sept. 21; v. 278; p. 540.
Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate candy. No. 135,186; Sept. 21; v. 278; p. 540.
Perez, Henry L., New York, N. Y. Concentrated and powdered inks, ink-sticks, and ink for writing purposes. No. 135,040; Sept. 21; v. 278; p. 534.
Pershing, Eli R., Washington, D. C. Candies. No. 135,041; Sept. 21; v. 278; p. 534.
Piper, Roscoe B., Sioux City, Iowa. Automobile tires and tubes. No. 135,042; Sept. 21; v. 278; p. 534.
Plaza Music Co., New York, N. Y. Talking-machine needles. No. 135,043; Sept. 21; v. 278; p. 534.
Plix Light Company, Inc., New York, N. Y. Motor-driven electric light and power units. No. 135,044; Sept. 21; v. 278; p. 534.
Praisner, Solomon, Brooklyn, N. Y. Fluid intended to relieve falling hair. No. 135,045; Sept. 21; v. 278; p. 534.
Premier Manufacturing Co., Lexington, Ky. Athletic union-suits. No. 135,046; Sept. 21; v. 278; p. 534.
Procter and Gamble Company, Cincinnati, Ohio. Soap. No. 135,047; Sept. 21; v. 278; p. 534.
Quinn, Frank O., Omaha, Nebr. Washing-powder. No. 135,048; Sept. 21; v. 278; p. 534.

Rainford, Jacob A., Bergen Field, N. J. Undervests, storm-vests, padded and quilted vests and jackets. No. 135,049; Sept. 21; v. 278; p. 534.
Reardon, John J., Philadelphia, Pa. Ginger-ale, ginger-beer, sarsaparilla, and club-soda. No. 135,050; Sept. 21; v. 278; p. 534.
Regina Company, The, New York, N. Y. Electric vacuum-cleaners, and parts thereof. No. 135,051; Sept. 21; v. 278; p. 534.
Reflex Auto Accessory Co., Auburn, Ind. Brake-band lining. No. 135,052; Sept. 21; v. 278; p. 534.
Rein Drive Tractors, Limited, Toronto, Ontario, Canada. Tractors. No. 135,053; Sept. 21; v. 278; p. 534.
Rhodes Metallic Pack Co. Inc., Shreveport, La. Metallic rod-packing. No. 135,054; Sept. 21; v. 278; p. 534.
Richards, Arthur W., West Hartford, Conn. Compounds used for cleansing, polishing, and burnishing the surfaces of metal and glass. No. 135,055; Sept. 21; v. 278; p. 534.
Rifkin, Abraham, Wilkes-Barre, Pa. Work-shirts and overalls. No. 135,056; Sept. 21; v. 278; p. 534.
Ritchie-Wertz Manufacturing Company, The, Dayton, Ohio. Toy airplanes. No. 135,057; Sept. 21; v. 278; p. 534.
Ritter Bros., New York, N. Y. Ladies' handbags. No. 135,058; Sept. 21; v. 278; p. 534.
Société Rodier, Paris, France. Velvet, wool, and cashmere piece goods. No. 135,059; Sept. 21; v. 278; p. 534.
Société Rodier, Paris, France. Woolen and cotton piece goods. No. 135,060; Sept. 21; v. 278; p. 534.
Société Rodier, Paris, France. Velvet, wool, and cashmere piece goods. No. 135,061; Sept. 21; v. 278; p. 534.
Rose, Leon R., New Haven, Conn. Powder-puff. No. 135,062; Sept. 21; v. 278; p. 534.
Rosenblum & Kern, New York, N. Y. Memorandum-books. No. 135,063; Sept. 21; v. 278; p. 534.
Samstag and Hilder Bros., New York, N. Y. Combs in shell, &c. No. 135,064; Sept. 21; v. 278; p. 535.
Schweppes Limited, London, England. Manufactured medicinal compound comprising an aperient water. No. 135,065; Sept. 21; v. 278; p. 535.
Schwob, Adolphe, Inc., New York, N. Y. Watches and watch-movements. No. 135,066; Sept. 21; v. 278; p. 535.
Scott, Lucinda, Wichita, Kans. Medicinal preparation for the treatment of cholera in hogs and poultry. No. 135,067; Sept. 21; v. 278; p. 535.
Scranton Distributing and Mfg. Co., Scranton, Pa. Bitter-wine tonic for medicinal purposes. No. 135,068; Sept. 21; v. 278; p. 535.
Sears, John M., Fuquay Springs, N. C. Medical compounds for cuts, bruises, burns, sore throat, &c. No. 135,069; Sept. 21; v. 278; p. 535.
Shainberg & Eber, Memphis, Tenn. Women's and children's outer and under garments, &c. No. 135,070; Sept. 21; v. 278; p. 535.
Shapleigh Hardware Company, St. Louis, Mo. Flashlights. No. 135,071; Sept. 21; v. 278; p. 535.
Sharkey, Alice M., Fond du Lac, Wis. Remedy for piles. No. 135,072; Sept. 21; v. 278; p. 535.
Sita, Mike, Tacoma, Wash. Leather-dressing for cleaning and polishing shoes. No. 135,073; Sept. 21; v. 278; p. 535.
Slazenger, Frank L., New York, N. Y. Tennis-rackets. No. 135,074; Sept. 21; v. 278; p. 535.
Society of Chemical Industry in Basle, Basel, Switzerland. Phonographic developers. No. 135,075; Sept. 21; v. 278; p. 535.
Spalding, Buren H., Los Angeles, Calif. Vegetable compound in the form of a tablet used as an aid to the blood. No. 135,076; Sept. 21; v. 278; p. 535.
Standard Varnish Works, New York, N. Y. Dry, ready-mixed, and paste paints and enamel paints. No. 135,077; Sept. 21; v. 278; p. 535.
Star Binding & Trimming Co., Inc., The, New York, N. Y. Glove-binding. No. 135,078; Sept. 21; v. 278; p. 535.
Stearyte Co., The, New York, N. Y. Stearate of zinc, as employed by manufacturers of toilet preparations. No. 135,079; Sept. 21; v. 278; p. 535.
St. Louis Rubber Cement Co., St. Louis, Mo. Graphite, soapstone, and mica. No. 135,080; Sept. 21; v. 278; p. 535.
Strayhorn, Oscar P., St. Louis, Mo. Pharmaceutical preparation used in dressing the hair and cleansing the scalp. No. 135,081; Sept. 21; v. 278; p. 535.
Suffolk Brewing Company, Boston, Mass. Cereal malt beverage. Nos. 135,082–3; Sept. 21; v. 278; p. 535.
Sunbeam Chemical Company, Chicago, Ill. Bluing. Nos. 135,084–5; Sept. 21; v. 278; p. 535.
Super-Glass Co., The, Philadelphia, Pa. Sheet-glass. No. 135,086; Sept. 21; v. 278; p. 535.
Supertone Talking Machine Co., Inc., New York, N. Y. Talking-machines and parts thereof. No. 135,087; Sept. 21; v. 278; p. 535.
Symonds, Frank P., Salem, Mass. Witch-hazel, disinfectant, insect-exterminators, fortified ammonia. No. 135,088; Sept. 21; v. 278; p. 535.
T. D. S. Co., The, Pasadena, Calif. Blood-purifier in the form of a liquid solution. No. 135,089; Sept. 21; v. 278; p. 535.
Tel-O-Tone Phonograph Company. (See The Western News Company, assignor.)
Tiffany & Company, New York, N. Y. Cleaning and polishing materials for jewelry and metal ware. No. 135,090; Sept. 21; v. 278; p. 535.
Tiffany & Company, New York, N. Y. Canes, parasols, and umbrellas. No. 135,091; Sept. 21; v. 278; p. 535.
Tiffin Products, Inc., Long Island, N. Y. Candies. No. 135,092; Sept. 21; v. 278; p. 535.
Tilleman, H. George, New York, N. Y. Carbon-papers and ink-ribbons. No. 135,093; Sept. 21; v. 278; p. 535.
Torrington Company, The, Torrington, Conn. Phonograph-needles. No. 135,187; Sept. 21; v. 278; p. 540.
U. S. Fire Extinguisher Co., Syracuse, N. Y. Fire-extinguishing compounds. No. 135,096; Sept. 21; v. 278; p. 535.
Unexcelled Manufacturing Company, New York, N. Y. Fireworks. No. 135,094; Sept. 21; v. 278; p. 535.
United States Graphite Company, The, Saginaw, Mich. Mining-machine lubricant. No. 135,095; Sept. 21; v. 278; p. 535.
Valle, Ballina y Fernandez, S. A., Villaviciosa, Spain. Champagne cider. No. 135,097; Sept. 21; v. 278; p. 536.
Victory Bag & Paper Co., Chicago, Ill. Paper bags. No. 135,098; Sept. 21; v. 278; p. 536.
Victory Bag & Paper Co., Marinette, Wis., and Chicago, Ill. Paper bags. No. 135,099; Sept 21; v. 278; p. 536.
Wais, Mary, Newark, N. J. Medicinal tonic. No. 135,100; Sept. 21; v. 278; p. 536.
Wallace Roberts Canning Company, Woodstown, N. J. Jellies, fruit jams, table preserves, canned fruits, and vegetables. No. 135,188; Sept. 21; v. 278; p. 540.
Waterman, Mabel, New Rochelle, N. Y. Toy animals. No. 135,101; Sept. 21; v. 278; p. 536.
Watkins, Edwin D., Memphis, Tenn. Toilet preparation—namely, skin-cream. No. 135,102; Sept. 21; v. 278; p. 536.
Welch, E. M., Cleveland, Ohio. General medicinal tonic. No. 135,103; Sept. 21; v. 278; p. 536.
Wellisch, W. T., & Co., Inc., San Francisco, Calif. Rice. Nos. 135,104–58; Sept. 21; v. 278; pp. 536–7.
Welsher, Samuel I., New York, N. Y. Soap flakes. No. 135,159; Sept. 21; v. 278; p. 537.
Wertheimer, Samuel M., New York, N. Y. Men's cotton, mercerized, and silk hosiery. No. 135,160; Sept. 21; v. 278; p. 537.
Western News Company, The, assignor to Tel-O-Tone Phonograph Company, Chicago, Ill. Phonographs and phonograph-cabinets. No. 135,161; Sept. 21; v. 278; p. 537.
Western Wheeled Scraper Company, Aurora, Ill. Dump, spreader, and flat cars and dump-wagons. No. 135,162; Sept. 21; v. 278; p. 537.
Whitaker Paper Company, The, Cincinnati, Ohio. Wrapping-paper. No. 135,163; Sept. 21; v. 278; p. 537.
Whitaker Paper Company, The, Cincinnati, Ohio. Printing-paper. No. 135,164; v. 278; p. 537.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Paper and stationery. No. 135,165; Sept. 21; v. 278; p. 537.
Wilbur White Chemical Company, The, Owego, N. Y. Photographic developer. No. 135,166; Sept. 21; v. 278; p. 537.
William, Charles, Stores Inc., The, Brooklyn, N. Y. Floor-covering in the nature of linoleum. No. 135,167; Sept. 21; v. 278; p. 537.
Williams, Connor O., Wichita, Kans. Automobile-tires and inner tubes of rubber. No. 135,168; Sept. 21; v. 278; p. 538.
Wood, J. W., Detroit, Mich. Medicine for the treatment of tuberculosis, &c. No. 135,169; Sept. 21; v. 278; p. 538.
Woodard, William H., Wilson, N. C. Confectionery. No. 135,170; Sept. 21; v. 278; p. 538.
Yeager, H. W., & Co., Philadelphia, Pa. Electrically-operated vacuum-creating apparatus for player-pianos. No. 135,171; Sept. 21; v. 278; p. 538.
Ynetema, Theodore J., Scranton, Pa. Scalp remedies, a liquid preparation used in treatment of the hair. No. 135,172; Sept. 21; v. 278; p. 538.
Young, Chas. W., & Co., Philadelphia, Pa. Soap flakes. No. 135,173; Sept. 21; v. 278; p. 538.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allen Corporation, The, New York, N. Y. "Pronto." (For Glass Containers Containing a Fire-Extinguishing Fluid.) No. 22,141; Sept. 21; v. 278; p. 541.
Atlasette Gloves, Inc., New York, N. Y. "Atlasette, 'The Glove I Love.'" (For Gloves.) No. 22,142; Sept. 21; v. 278; p. 541.
Basso Co., The, Chicago, Ill. "Asiago Basso." (For Cheese.) No. 22,143; Sept. 21; v. 278; p. 541.
Bigwood, Benjamin F., Everett and Boston, Mass. "Prohibition Ginger." (For a Preparation or Compound for Cramps, Chills, &c.) No. 22,144; Sept. 21; v. 278; p. 541.
California Soda Products Company, San Francisco, Calif. "Snow Crystals." (For Instantaneous Water-Softener.) No. 22,146; Sept. 21; v. 278; p. 541.
Chappell, Alexander W., Red Bank, N. J. "Suculine." (For General Tonic for Poultry.) No. 22,147; Sept. 21; v. 278; p. 541.
Federal Snap Fastener Corporation, New York, N. Y. "Harmony Forget-Me-Not Snaps." (For Snap-Fasteners.) No. 22,148; Sept. 21; v. 278; p. 541.
Goldberg, David N., Chicago, Ill. "Grapette." (For Beverage.) No. 22,149; Sept. 21; v. 278; p. 541.
Hall, Peter, Pasadena, Calif. "Gyft Chocolate from California." (For Boxes Containing Chocolates.) No. 22,150; Sept. 21; v. 278; p. 541.
Howard, R. S. Company, New York, N. Y. "Player Action Par Excellence." (For Actions for Player-Pianos.) No. 22,151; Sept. 21; v. 278; p. 541.
Jackson Brewing Company, New Orleans, La. "Jax." (For Cereal Beverages.) No. 22,152; Sept. 21; v. 278; p. 541.
Lee, L. H., Elmhurst, Ill. "Oriental." (For Shampoo.) No. 22,155; Sept. 21; v. 278; p. 541.
Lorensen, Chas. F. & Co., Chicago, Ill. "Purple Seal Playthings." (For Educational Playthings—namely, Picture-Builders.) No. 22,153; Sept. 21; v. 278; p. 541.
Lorenzen, Chas. F. & Co., Chicago, Ill. "Purple Seal Playthings." (For Phantom Blocks 71.) No. 22,154; Sept. 21; v. 278; p. 541.
Mandabach, Peter A., Chicago, Ill. "Euco-Mint." (For Packages Containing Tooth-Paste.) No. 22,156; Sept. 21; v. 278; p. 541.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate of Yore." (For Boxes Containing Chocolate Candy.) No. 22,159; Sept. 21; v. 278; p. 541.
Milwaukee Paper Box Company, Milwaukee, Wis. "Her Candied Opinion." (For Boxes Containing Chocolate Candy.) No. 22,157; Sept. 21; v. 278; p. 541.
Milwaukee Paper Box Company, Milwaukee, Wis. "Shelley's Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,158; Sept. 21; v. 278; p. 541.
Pacific Guano & Fertiliser Co., The, Honolulu, Hawaii. "Gaviota" (Sea Gull.) (For Artificial Fertilizer.) No. 22,160; Sept. 21; v. 278; p. 541.
Permatite Manufacturing Company, Inc., Minneapolis, Minn. "Perma-Tite Valve Grinding Compound." (For Cans Containing a Valve-Grinding Compound.) No. 22,161; Sept. 21; v. 278; p. 541.
Permatite Manufacturing Company, Inc., Minneapolis, Minn. "Perma-Tite Household Patch." (For Packages Containing a Household Patch for Patching Rubber Goods.) No. 22,162; Sept. 21; v. 278; p. 541.
Peters Manufacturing Company, Boston, Mass., and New York, N. Y. "American Cloth." (For Cloth.) No. 22,163; Sept. 21; v. 278; p. 541.
Price Compound Company, Minneapolis, Minn. "Price's No Ice." (For Preservative Compound for Fish and Game.) No. 22,164; Sept. 21; v. 278; p. 541.
Saniwax Paper Co., Kalamazoo, Mich. "Home Made." (For Bread.) No. 22,166; Sept. 21; v. 278; p. 541.
Saniwax Paper Co., Kalamazoo, Mich. "Milk Maid." (For Bread.) No. 22,167; Sept. 21; v. 278; p. 541.
Saniwax Paper Co., Kalamazoo, Mich. "Mothers." (For Bread.) No. 22,165; Sept. 21; v. 278; p. 541.
Shaw Family, Inc., The, San Jose, Calif. "Shaw's." (For Strawberry Jam.) No. 22,168; Sept. 21; v. 278; p. 541.
Shepherd & Cleveland, Chicago, Ill. "All In One Ointment." (For Ointment.) No. 22,169; Sept. 21; v. 278; p. 541.
Staehle, Louis L., Newark, N. J. "Essex Poisoned Wheat." (For Poisoned Food for Rats, Mice, &c.) No. 22,170; Sept. 21; v. 278; p. 541.
Sweet-Odor-Home Company, San Francisco, Calif. "Sweet-Odor-Home." (For Liquid Deodorant.) No. 22,171; Sept. 21; v. 278; p. 541.
West, Augustus A., Philadelphia, Pa. "Magic Hair Curlers." (For Applied or Fastened Hair-Curlers.) Nos. 22,172–3; Sept. 21; v. 278; p. 541.
Van Buskirk, H., Seed Co., Rocky Ford, Colo. "Salmotinto." (For Cantaloup-Seed.) No. 22,145; Sept. 21; v. 278; p. 541.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

B. V. D. Company, The, New York, N. Y. "Economy." (For Athletic Underwear.) No. 5,354; Sept. 21; v. 278; p. 542.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Cloves." (For Candy-namely, Cloves.) No. 5,352; Sept. 21; v. 278; p. 542.
Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Licorice." (For Candy—namely, Licorice.) No. 5,353; Sept. 21; v. 278; p. 542.
Detmer Woolen Co., New York, N. Y. "Come In—Let us show you Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) No. 5,365; Sept. 21; v. 278; p. 542.
Franklin, Joseph A., Chicago, Ill. "Shot." (For Non-Alcoholic Beverage.) No. 5,356; Sept. 21; v. 278; p. 542.
Franklin, Joseph A., Chicago, Ill. "The Drink With a Tickle for a Nickle." (For a Non-Alcoholic Beverage.) No. 5,357; Sept. 21; v. 278; p. 542.
Fuld, William, Baltimore, Md. "Ouija." (For a Talking-Board.) No. 5,358; Sept. 21; v. 278; p. 542.
Hays, Daniel, Company, The, Gloversville, N. Y. "Hays Gloves." (For Leather Gloves.) No. 5,355; Sept. 21; v. 278; p. 542.
Mutual Service Corporation, New York, N. Y. "Delight in Every Bite." (For Apples.) No. 5,359; Sept. 21; v. 278; p. 542.
Reliance Manufacturing Company, Chicago, Ill. "Big Yank." (For Work-Shirts.) No. 5,360; Sept. 21; v. 278; p. 542.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "No Need Putting in a Call for the Old Family Yard Stick." (For Smoking-Tobacco.) No. 5,362; Sept. 21; v. 278; p. 542.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "What a Grip You've Got on Smokesport at Both Ends." (For Smoking-Tobacco.) No. 5,361; Sept. 21; v. 278; p. 542.
Whitaker, George S., Gloversville, N. Y. "The New Improved Double Floor Whitaker Denture Vacuum." (For a Vacuum Denture.) No. 5,363; Sept. 21; v. 278; p. 542.
World Phonograph Company, Chicago, Ill. "My Mama." (For Phonographs.) No. 5,364; Sept. 21; v. 278; p. 542.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Adam-Christian Co., Richmond, Va. Fruit and flavoring extracts, &c. for use in the preparation of non-alcoholic beverages. No. 118,100; Sept. 21; v. 278; p. 509.
Aerograph Company, Limited, The, London, England. Airbrushes, spray painting apparatus. No. 127,790; Sept. 21; v. 278; p. 511.
Albano & Gangemi, Brooklyn, N. Y. Tonic. No. 130,310; Sept. 21; v. 278; p. 516.
Altman, B., & Co., New York, N. Y. Perfume, toilet water, face-powder, &c. No. 131,460; Sept. 21; v. 278; p. 520.
Apple-Lax Company, The, Winchester, Va. Pure apple-syrup laxative. No. 129,921; Sept. 21; v. 278; p. 514.
Associated Dental Supply Co., San Francisco, Calif. Dental pastes, mouth-washes, and pyorrhea remedies. No. 126,835; Sept. 21; v. 278; p. 511.
Auerbach, D. & Sons., New York, N. Y. Chocolates. No. 133,121; Sept. 21; v. 278; p. 524.
Avalon Farms Company, The, Chicago, Ill. Tonic in tablet form for hogs. No. 131,250; Sept. 21; v. 278; p. 519.
Avedon & Company, Inc., New York, N. Y. Women's and misses' blouses, dresses, coats, &c. No. 130,007; Sept. 21; v. 278; p. 514.
Ayer, Harriet H., New York, N. Y. Antiseptic liquid-soap, shampoo and bath-foam. No. 131,059; Sept. 21; v. 278; p. 518.
Ayer, Harriet H., New York, N. Y. Hair tonic and invigorant. No. 131,062; Sept. 21; v. 278; p. 518.
Ayer, Harriet H., New York, N. Y. Rouge paste, liquid or powder; No. 131,060; Sept. 21; v. 278; p. 518.
Ayres, John F., Salem, N. J. White potatoes. No. 133,814; Sept. 21; v. 278; p. 524.
Baker, Mary E., Washington, D. C. Ladies' hats and bonnets. No. 135,549; Sept. 21; v. 278; p. 528.
Baltránas, Paul A., Chicago, Ill. Laxative medicine or bitters. No. 130,260; Sept. 21; v. 278; p. 516.
Barvoets, John F., Everton, Liverpool, England. Perfumery, face-creams, tooth-powder, &c. No. 127,993; Sept. 21; v. 278; p. 512.
Beecher-Hollins Co., Boston, Mass. Embalming fluid. No. 130,510; Sept. 21; v. 278; p. 516.
Beich, Paul F., Co., Bloomington, Ill. Candy. No. 134,004; Sept. 21; v. 278; p. 525.
Bell, Henry, Atlanta, Ga. Preparation for the treatment of disorders of the stomach and liver. No. 132,343; Sept. 21; v. 278; p. 522.
Bigheart Producing & Refining Company, New York, N. Y. Petroleum products—namely, crude oil, gasolene, &c. No. 134,180; Sept. 21; v. 278; p. 525.
Big Diamond Mills Co., Minneapolis, Minn. Wheat-flour. No. 107,904; Sept. 21; v. 278; p. 509.
Bisceglia Brothers, San Jose, Calif. Canned fruits and vegetables. No. 130,567; Sept. 21; v. 278; p. 516.
Boesch, Theodore K., Philadelphia, Pa. Mosquito-repelling toilet powder. No. 132,682; Sept. 21; v. 278; p. 523.
Bonkowski, Vincent V., Detroit, Mich. Laxative wafers. No. 125,529; Sept. 21; v. 278; p. 511.
Boon, J. A., Gary, Ind. Liniment for use in the treatment of rheumatism. No. 130,201; Sept. 21; v. 278; p. 515.
Brauer & Kreidt, Norlina, N. C. Liquid-fuel intensifier. No. 130,946; Sept. 21; v. 278; p. 518.
Brown, Ralph D., Dubuque, Iowa. Candied popcorn crispettes. No. 120,237; Sept. 21; v. 278; p. 510.
Bruning, William H., Evansville, Ind. Ground coffee and coffee in the bean. No. 123,870; Sept. 21; v. 278; p. 510.
Burns, Jabez & Sons., New York, N. Y. Roasters and parts and supplies for same for roasting coffee, &c. No. 134,634; Sept. 21; v. 278; p. 527.
Butcher, Martha F., Washington, D. C. Insecticides. No. 130,910; Sept. 21; v. 278; p. 518.
California Packing Corporation, San Francisco, Calif. Canned goods. No. 127,893; Sept. 21; v. 278; p. 512.
California Sanitary Canning Co., Los Angeles, Calif. Canned fruits. No. 123,614; Sept. 21; v. 278; p. 510.
Cape County Milling Company, Jackson, Mo. Wheat-flour. Nos. 135,267–8; Sept. 21; v. 278; p. 527.
Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, billets, and shapes. No. 134,572; Sept. 21; v. 278; p. 525.
Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, billets, and shapes. No. 134,577; Sept. 21; v. 278; p. 526.
Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, billets, and shapes. Nos. 134,579–80; Sept. 21; v. 278; p. 526.
Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, billets, and shapes. No. 134,582; Sept. 21; v. 278; p. 526.
Carpenter Steel Company, The, Reading, Pa. Tool-steels in bars, billets and shapes. No. 134,571; Sept. 21; v. 278; p. 525.
Carpenter Steel Company, The, Reading, Pa. Tool-steel in bars, billets, and shapes. Nos. 134,574–6; Sept. 21; v. 278; p. 526.
Carpenter Steel Company, The, Reading, Pa. Tool-steel in bars, billets and shapes. No. 134,581; Sept. 21; v. 278; p. 526.
Carpenter Steel Company, The, Reading, Pa. Tool-steel in bars, billets, and shapes. No. 134,584; Sept. 21; v. 278; p. 526.
Carillo, Achille, Chelsea, Mass. Medicine for venereal diseases. No. 132,591; Sept. 21; v. 278; p. 523.
Chapman, Frank, Providence, R. I. Soldering-flux. No. 128,295; Sept. 21; v. 278; p. 513.
Commonwealth Chemical Corporation, Jersey City, N. J., and New York, N. Y. Camphor substitute for use in making celluloid. No. 131,856; Sept. 21; v. 278; p. 521.
Corona Chemical Company, Milwaukee, Wis. Insecticides. No. 131,066; Sept. 21; v. 278; p. 518.
Crane, George W., Fort Wayne, Ind. Preparation for prevention and relief of colds, croup, sore throat, &c. No. 132,914; Sept. 21; v. 278; p. 524.
Criss, Tereasa, Shaw, Miss. Hair-growers and hair-shampooing mixture. No. 130,753; Sept. 21; v. 278; p. 517.
Dakota Chemical Company, Sioux Falls, S. D. Medicinal preparations in soft capsules for the treatment of bot and worm ailments in horses, &c. No. 132,298; Sept. 21; v. 278; p. 522.
Denver Rock Drill Manufacturing Company, The, Denver, Colo. Hoists. No. 134,703; Sept. 21; v. 278; p. 527.
Di Brenle Mfg. Co., Cleveland, Ohio. Face-powder. No. 122,595; Sept. 21; v. 278; p. 510.
Dubuque Spiral Harrow Co., Dubuque, Iowa. Spiral harrow. No. 133,615; Sept. 21; v. 278; p. 524.
Eagle-Picher Lead Co., The, Cincinnati, Ohio. Sulfuric acid. No. 131,741; Sept. 21; v. 278; p. 520.
Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and Steel. Nos. 135,703–4; Sept. 21; v. 278; p. 528.
Fitzgerald, Asa L., El Centro, Calif. Pile remedy. No. 132,688; Sept. 21; v. 278; p. 523.
Flannery, J. Rogers, Pittsburgh, Pa. Preparation for cleaning and renovating oil and gas wells. No. 131,418; Sept. 21; v. 278; p. 519.
Flores, Anania, Marianna, Pa. Perfume. No. 128,346; Sept. 21; v. 278; p. 513.
Fraiberger, Max, San Francisco, Calif. Medicine for the treatment of anhidrosis. No. 128,347; Sept. 21; v. 278; p. 513.
Franco-American Food Company, The, Jersey City, N. J. Canned pork and beans, beans and spaghetti. No. 128,059; Sept. 21; v. 278; p. 512.
Fruit Supply Company, St. Louis, Mo. Fresh apples. No. 130,165; Sept. 21; v. 278; p. 515.
Garden Chemical Company, New York, N. Y. Insecticides. No. 130,722; Sept. 21; v. 278; p. 517.
Gillette Safety Razor Company, Boston, Mass. Safety-razors. No. 124,856; Sept. 21; v. 278; p. 511.
Grammes, L. F., & Sons, Allentown, Pa. Wrenches. No. 134,817; Sept. 21; v. 278; p. 527.
Grape Ola Products Corporation, New York, N. Y. Flavoring material for foods. No. 126,375; Sept. 21; v. 278; p. 511.
Harper, Edward F., Philadelphia, Pa. Liniment for rheumatism, sprains, bruises, &c. No. 129,927; Sept. 21; v. 278; p. 514.
Hegewisch Chemical Works, Chicago, Ill. Preparation for coughs, colds, and first stages of consumption. No. 132,692; Sept. 21; v. 278; p. 523.
Hempy-Cooper Manufacturing Company, Kansas City, Mo. Indicator for indicating the internal condition of storage and other batteries. No. 133,920; Sept. 21; v. 278; p. 525.
Henderson, Samuel G. G., Los Angeles, Calif. Vegetable compound for the treatment of the stomach, liver, bowels, &c. No. 132,249; Sept. 21; v. 278; p. 521.
Houser, Jacob, Oakland, Calif. Preparation for treatment of the hair and scalp. No. 132,435; Sept. 21; v. 278; p. 522.
Howard, Savanna V., Chicago, Ill. Hair-tonic. No. 132,790; Sept. 21; v. 278; p. 524.
Hudson Coffee Mills, Inc., New York, N. Y. Tea. No. 130,039; Sept. 21; v. 278; p. 515.

Ideal Disinfectant Co., Newark, N. J. Disinfectants and deodorants. No. 129,503; Sept. 21; v. 278; p. 514.
Improved Chilling and Transport Limited, London, England. Chilled fresh meats. No. 132,693; Sept. 21; v. 278; p. 523.
Jaquet, Daniel, Seine, France. Perfumes, face powders and cream, lip-sticks, &c. No. 126,327; Sept. 21; v. 278; p. 511.
Jolie, Inc., New York, N. Y. Rouges, face-creams, toilet waters, perfumes, &c. No. 131,219; Sept. 21; v. 278; p. 519.
Kabushiki Kaisha Hiro Sampei Shoten, Tokyo, Japan. Perfumes, incense, and toilet articles. No. 122,047; Sept. 21; v. 278; p. 510.
La Manna, Azema & Farnan, New York, N. Y. Sardines. No. 131,273; Sept. 21; v. 278; p. 519.
Lee, E. H., Knoxville, Tenn. Preparation for use in promoting the growth of hair, tetter-salve, &c. No. 132,748; Sept. 21; v. 278; p. 524.
Levy, Maurice, New Rochelle, N. Y. Hair-coloring preparation. No. 131,710; Sept. 21; v. 278; p. 521.
Lind Drug Co., Orange, N. J. Remedies for coughs, colds, and la grippe. No. 130,838; Sept. 21; v. 278; p. 517.
Lloyd Brothers, Cincinnati, Ohio. Medicine for hypodermic use for spasm of any part of urinary tract. No. 130,904; Sept. 21; v. 278; p. 517.
Lloyd Brothers, Cincinnati, Ohio. Medicines for treatment of the kidneys and bladder; uterus, worms, &c. No. 130,905; Sept. 21; v. 278; p. 518.
Logan Iron and Steel Company, Philadelphia, Pa. Bar-iron. No. 135,374; Sept. 21; v. 278; p. 528.
Lovell, Oscar H., St. Louis, Mo. Medicinal preparation which acts on the liver and bowels. No. 131,027; Sept. 21; v. 278; p. 518.
Mackie Pine Oil Specialty Co. Inc., Covington, La. Disinfectant. No. 129,938; Sept. 21; v. 278; p. 514.
Magnolia Chemical Company, Houston, Tex. Germicides, insecticides, and disinfectants. No. 131,582; Sept. 21; v. 278; p. 520.
Marcy, E. H., Laboratories, Inc., Framingham, Mass. Solutions containing combinations of non-specific plant-proteins prepared for hypodermic intra-muscular injection. No. 131,343; Sept. 21; v. 278; p. 519.
Mears, William J., Kansas City, Mo. Preparation for the treatment of insect bites and stings. No. 131,078; Sept. 21; v. 278; p. 519.
Meilier Company Perfumer, St. Louis, Mo. Perfume, toilet water, talcum powder, face-powder, &c. No. 130,052; Sept. 21; v. 278; p. 515.
Merck & Co., New York, N. Y. Salicylic-acid ester of salicylic acid. No. 132,309; Sept. 21; v. 278; p. 522.
Merrill Process Co., The, Boston, Mass. Mineral oils. No. 125,397; Sept. 21; v. 278; p. 511.
Mile-A-Minute, Incorporated, Pittsburgh, Pa. Preparation to be added to gasolene for increasing mileage and preventing carbon. No. 130,104; Sept. 21; v. 278; p. 515.
Miller Saw-Trimmer Company, Pittsburgh, Pa. Printers' machinery. No. 117,054; Sept. 21; v. 278; p. 509.
Mirolene Co., The, Alsen, N. D. Remedy for the internal treatment of coughs and colds. No. 131,081; Sept. 21; v. 278; p. 519.
Moore, Charles A., Sr., New Castle, Pa. Capsules to be taken internally for the treatment of piles. No. 132,543; Sept. 21; v. 278; p. 522.
Morris, Emory S., Atlanta, Ga. Insecticides. No. 128,367; Sept. 21; v. 278; p. 513.
Morton Chemical Company, The, Seattle, Wash. Antipyretic and diaphoretic capsules for headache, colds, and la grippe. No. 131,718; Sept. 21; v. 278; p. 521.
Morton, Erin M., Centertown, Ky. Laxative tablets for sluggish and torpid liver. No. 130,149; Sept. 21; v. 278; p. 515.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food colors. Nos. 131,440–4; Sept. 21; v. 278; p. 520.
National Oil Products Co., Harrison, N. J. Oils suitable for the tanning of leather. No. 130,728; Sept. 21; v. 278; p. 517.
New Era Mfg. Co., New York, N. Y. Check-writers. No. 134,481; Sept. 21; v. 278; p. 525.
Norma-Tone Co., Boston, Mass. Laxative tablets. No. 131,229; Sept. 21; v. 278; p. 519.
Norris, Inc., Atlanta, Ga. Chocolates, bonbons, and candies. No. 133,675; Sept. 21; v. 278; p. 524.
Ogden, John, Philadelphia, Pa. Sickles. No. 134,723; Sept. 21; v. 278; p. 527.
Omega Chemical Company, The, New York, N. Y. Dentifrices. No. 130,609; Sept. 21; v. 278; p. 517.
Page & Hill Co., Minneapolis, Minn. Liquid containing creosote, &c., used as a wood-preserver. No. 132,417; Sept. 21; v. 278; p. 522.
Pan American Smelting Works, Inc., New York, N. Y. White-metal alloys. No. 135,341; Sept. 21; v. 278; p. 528.
Patek Brothers, Milwaukee, Wis. Dry, paste, and ready mixed paints, calcimines, &c. No. 113,317; Sept. 21; v. 278; p. 509.
Penick & Ford Ltd., Inc., New Orleans, La. Live-stock-feeders' molasses. No. 132,554; Sept. 21; v. 278; p. 522.
Perfection Auto Parts Company, The, Cleveland, Ohio. Pistons. No. 120,287; Sept. 21; v. 278; p. 510.
Preiss, Gustave A., Elgin, Ill. Lubricating-oils. No. 135,109; Sept. 21; v. 278; p. 527.
Photo Chemical Co. Inc., New York, N. Y. Tonic and restorative preparations. No. 129,803; Sept. 21; v. 278; p. 514.
Remington Salt Company, Ithaca, N. Y. Salt. No. 128,863; Sept. 21; v. 278; p. 513.
Republic Druggist Syndicate, Inc., New York, N. Y. Compound of beef and iron, a compound of extract of cod-liver oil, &c. No. 130,292; Sept. 21; v. 278; p. 516.
Rex Relief Company, Maryville, Tenn. Medicinal preparation for treatment of colds and the liver. No. 129,247; Sept. 21; v. 278; p. 514.
Richard Bros. Die Works, Detroit, Mich. Dies, punches, die-retainers, punch-retainers, &c. No. 129,605; Sept. 21; v. 278; p. 514.
Ritzler, Charles Edward, Dayton, Ohio. Non-intoxicating carbonated beverages. No. 132,570; Sept. 21; v. 278; p. 523.
Roosa & Ratliff Chemical Co., Cincinnati, Ohio. Toilet preparations. No. 131,828; Sept. 21; v. 278; p. 521.
Salux Laboratories, Inc., Seattle, Wash. Hair-shampoo. No. 131,989; Sept. 21; v. 278; p. 521.
Sani-Mani Laboratory, The, Long Beach, Calif. Preparation used to soften cuticle and remove stains. No. 134,733; Sept. 21; v. 278; p. 527.
Scarbrough, H. S., Lufkin, Tex. Medicine to be used in the treatment of gonorrhea. No. 132,336; Sept. 21; v. 278; p. 522.
Schmidt, Otto, New York, N. Y. Russian dressing and mayonnaise. No. 141,670; Sept. 21; v. 278; p. 520.
Seacoast Canning Co., Eastport, Me. and East San Pedro, Calif. Canned sardines. No. 127,777; Sept. 21; v. 278; p. 511.
Sebree, Harry H., St. Louis, Mo. Rust-eradicator in the form of dry powdered chemicals. No. 128,707; Sept. 21; v. 278; p. 513.
Seibert, William, Dr., Chino, Calif. Medicinal pills, said pills being used as a general medicinal tonic. No. 131,287; Sept. 21; v. 278; p. 519.
Sellers, William, & Company, Incorporated, Philadelphia, Pa. Starting-valves, check-valves, and strainers. No. 132,621; Sept. 21; v. 278; p. 523.
Sellers, William, & Co., Incorporated, Philadelphia, Pa. Turning-lathes, planers, drill-presses, &c. No. 132,622; Sept. 21; v. 278; p. 523.
Sheats Stock Tonic Company, Winder, Ga. Stock-tonics and worm-powders. No. 130,623; Sept. 21; v. 278; p. 517.
Short & Son Co., Reading, Pa. Chewing-gum. No. 120,886; Sept. 21; v. 278; p. 510.
Shuptrine Company, Savannah, Ga. Shampoo. No. 131,452; Sept. 21; v. 278; p. 520.
Spicer, Oliver W., Colorado Springs, Colo. Tablets for la grippe and colds. No. 130,988; Sept. 21; v. 278; p. 518.
Springville Canning Co., The, Springville, N. Y. Canned fruits and vegetables. No. 131,836; Sept. 21; v. 278; p. 521.
Stearns & White Co., Chicago, Ill. Laxative paraffin-oil. No. 132,408; Sept. 21; v. 278; p. 522.
Stoneman, William H., Albany, N. Y. Enamel paints, dry, paste, and ready-mixed paints. No. 128,028; Sept. 21; v. 278; p. 512.
Stoneman, William H., Albany, N. Y. Ready-mixed paints. No. 128,029; Sept. 21; v. 278; p. 512.
Sveda, John, Detroit, Mich. External medicine for rheumatism, neuralgia, and general soreness. No. 128,870; Sept. 21; v. 278; p. 513.
Taft, Fred M., Logansport, Ind. Liquid polish for autos, pianos, and furniture. No. 134,615; Sept. 21; v. 278; p. 526.
Talcum Puff Co., New York, N. Y. Toilet preparations. No. 131,925; Sept. 21; v. 278; p. 521.
Talcum Puff Co., Brooklyn, N. Y. Toilet preparations. No. 132,327; Sept. 21; v. 278; p. 522.
Tanenbaum, Jacob, New York, N. Y. Toilet preparation—viz, rouge and face-powder. No. 132,898; Sept. 21; v. 278; p. 524.
Thayer, Henry, & Co., Inc., Cambridge, Mass. Salves and ointments. No. 130,450; Sept. 21; v. 278; p. 516.
Tirel, J., Paris, France. Chemical products for removing rust-stains. No. 124,582; Sept. 21; v. 278; p. 510.
Toch Brothers, New York, N. Y. Paint-pigments and ready-mixed paints. No. 134,439; Sept. 21; v. 278; p. 525.
U. R. S. Candy Stores, Inc., New York, N. Y. Candy. No. 133,116; Sept. 21; v. 278; p. 524.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Deodorant and germicide. No. 131,890; Sept. 21; v. 278; p. 521.
Ultra Refined Crude Products Company, Chicago, Ill. Deodorized kerosene. No. 135,676; Sept. 21; v. 278; p. 528.
United Drug Company, Boston, Mass. Tooth-paste. No. 130,396; Sept. 21; v. 278; p. 516.
Universal Winding Company, Cranston, R. I., and Boston, Mass. Winding-machines for thread, yarn, cord, twine, &c. No. 134,283; Sept. 21; v. 278; p. 525.

(REGISTRATION APPLIED FOR.)

Vosburgh, Incorporated, Chicago, Ill. Shampoo liquid and shampoo jelly. No. 130,348; Sept. 21; v. 278; p. 516.

Weideman Company, The, Cleveland, Ohio. Flavoring extracts for foods, coffee, &c. No. 98,642; Sept. 21; v. 278; p. 509.

Welch, C. S. Company, The, New York, N. Y. Complexion-powder, toilet rouge, and talcum powder. No. 130,499; Sept. 21; v. 278; p. 516.

Wetterwald & Pfister Co., New York, N. Y. Aniline dyes. No. 130,781; Sept. 21; v. 278; p. 517.

Willis & Echels, Chicago, Ill. Motion-picture films. No. 131,295; Sept. 21; v. 278; p. 519.

Woodlands, Limited, Dover, England. Flour-improvers comprising a harmless persulfate. No. 128,177; Sept. 21; v. 278; p. 524.

Worsham Company, The, Henderson, Ky. Eczema-lotion. No. 130,187; Sept. 21; v. 278; p. 515.

Wyoming Shovel Works, The, Wyoming, Pa. Shovels, spades, scoops, mattocks, and picks. No. 134,385; Sept. 21; v. 278; p. 525.

Young, Smyth, Field Company, Philadelphia, Pa. Dyes. No. 128,637; Sept. 21; v. 278; p. 518.

Zauder Bros., Inc., New York, N. Y. Hair-coloring. No. 132,624; Sept. 21; v. 278; p. 522.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 21st DAY OF SEPTEMBER, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acetylene-gas generator. C. T. and C. B. Cook. No. 1,353,465; Sept. 21; v. 278; p. 435.

Acid, Concentration of sulfuric. A. C. Bohre. No. 1,353,448; Sept. 21; v. 278; p. 433.

Acids and their glycerids, Method of and apparatus for hydrogenating fatty. A. Radlsson and P. Berthon. No. 1,353,419; Sept. 21; v. 278; p. 428.

Aeroplane. E. V. Boller. No. 1,353,212; Sept. 21; v. 278; p. 388.

Aeroplane. P. T. Wolfe and W. H. Bovard. No. 1,353,692; Sept. 21; v. 278; p. 484.

Aeroplane, Twin-propeller. L. B. Sperry. No. 1,353,544; Sept. 21; v. 278; p. 452.

Aeroplanes, Foldable landing-gear for. F. McCarroll. No. 1,353,407; Sept. 21; v. 278; p. 423.

Agricultural implement Balance. D. Y. Wheatley. No. 1,353,366; Sept. 21; v. 278; p. 417.

Air and car coupling, Multiple electric. R. G. Averill and C. H. Tomlinson. No. 1,353,557. Sept. 21; v. 278; p. 455.

Aircraft, Wing and similar member of. F. H. Page. No. 1,353,666; Sept. 21; v. 278; p. 478.

Airplane-wing. J. Petrovitch. No. 1,353,179; Sept. 21; v. 278; p. 382.

Alarm: *See*—
Latch and burglar-alarm.

Alloys, Treating copper-bearing. W. J. Marsh. No. 1,353,778; Sept. 21; v. 278; p. 499.

Anchor-bolt. F. Hammermann. No. 1,353,159; Sept. 21; v. 278; p. 377.

Antenna structure. L. Espenschied. No. 1,353,735; Sept. 21; v. 278; p. 492.

Antiskidding device. J. C. Dupler. No. 1,353,329; Sept. 21; v. 278; p. 410.

Automatic controlling device. C. J. Stuart. No. 1,353,434; Sept. 21; v. 278; p. 431.

Automobile-bumper. W. V. Isgrig. No. 1,353,241; Sept. 21; v. 278; p. 393.

Automobile-chock. F. Retterer. No. 1,353,541; Sept. 21; v. 278; p. 452.

Automobile-curtain. S. A. Gates. No. 1,353,568; Sept. 21; v. 278; p. 437.

Automobile hauling attachment. E. Krumland. No. 1,353,762; Sept. 21; v. 278; p. 497.

Automobile-lock. F. O. Boswell. No. 1,353,143; Sept. 21; v. 278; p. 374.

Automatic-locking spring-washer. A. T. Mills. No. 1,353,776; Sept. 21; v. 278; p. 499.

Automobile pilot-signal. C. Sealy. No. 1,353,790; Sept. 21; v. 278; p. 502.

Automobile-signal. C. F. Livingston and E. E. Lordge. No. 1,353,253; Sept. 21; v. 278; p. 395.

Automobile-tops, Dressing for. C. A. Honig. No. 1,353,239; Sept. 21; v. 278; p. 393.

Automobile - wrench combination. H. Rosenberg. No. 1,353,496; Sept. 21; v. 278; p. 443.

Automobiles, &c., Four-wheel drive for. H. A. Mieske. No. 1,353,411; Sept. 21; v. 278; p. 426.

Automobiles, Auxiliary radiator for. W. Nash. No. 1,353,263; Sept. 21; v. 278; p. 397.

Automobiles, Convertible interior of. W. H. Griffin and O. C. Hartsough. No. 1,353,232; Sept. 21; v. 278; p. 391.

Automobiles, Gear-casing and band-operating device for. J. T. Parrish. No. 1,353,612; Sept. 21; v. 278; p. 506.

Axles, Spring-fitting for vehicle. J. C. H. Grant. No. 1,353,470; Sept. 21; v. 278; p. 438.

Badges, Naval, military and other metallic. C. F. Gaunt. No. 1,353,228; Sept. 21; v. 278; p. 391.

Bag-holder. E. Erickson. No. 1,353,330; Sept. 21; v. 278; p. 410.

Bags, Making and filling. A. M. Bates. No. 1,353,210; Sept. 21; v. 278; p. 387.

Baling-presses, Safety device for. C. R. Littig. No. 1,353,252; Sept. 21; v. 278; p. 395.

Barge. J. Thies. No. 1,353,190; Sept. 21; v. 278; p. 384.

Barometer, Mercurial. A. M. Krause. No. 1,353,482; Sept. 21; v. 278; p. 440.

Barrels, Head equipment for. H. U. Ruedy. No. 1,353,183; Sept. 21; v. 278; p. 382.

Bathtub attachment. C. H. Waechter. No. 1,353,318; Sept. 21. v. 278; p. 407.

Battery-box-forming machine. S. E. Hall. No. 1,353,239; Sept. 21; v. 278; p. 412.

Battery-plate support. E. M. Duffey. No. 1,353,154; Sept. 21; v. 278; p. 376.

Bearings, Machine for burning in and burnishing engine-. T. W. Jansen. No. 1,353,164; Sept. 21; v. 278; p. 378.

Bed attachment, Combination. J. W. Weismantel. No. 1,353,502; Sept. 21; v. 278; p. 444.

Bed-bottom. R. Fuller. No. 1,353,579; Sept. 21; v. 278; p. 460.

Bed, Convertible wardrobe-. J. M. McGhee. No. 1,353,536; Sept. 21; v. 278; p. 451.

Bed having vertical pivots, Screened. W. C. James. No. 1,353,163; Sept. 21; v. 278; p. 378.

Bed headrest attachment. A. MacDonald. No. 1,353,537; Sept. 21; v. 278; p. 451.

Bed, Vertically-pivoted wall- W. C. James. No. 1,353,162; Sept. 21; v. 278; p. 378.

Bee-cage. E. B. Ault. No. 1,353,187; Sept. 21; v. 278; p. 373.

Beet-topping means. C. L. Leonard and A. F. Howard. No. 1,353,403; Sept. 21; v. 278; p. 425.

Berry-picker. A. Mahtes. No. 1,353,172; Sept. 21; v. 278; p. 380.

Blower-pipe, windbreak, and silage-distributer. A. M. Tamm and J. Tennessen, Jr. No. 1,353,674; Sept. 21; v. 278; p. 480.

Board: *See*—
Game-board. Paper-board.
Ironing-board. Sound-board.

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Violin attachment. E. Lacoste. No. 1,353,763; Sept. 21; v. 278; p. 497.

Vulcanising-pad. J. N. Dieser. No. 1,353,382; Sept. 21; v. 278; p. 421.

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Washing-machine. J. W. Seifert. No. 1,353,791; Sept. 21; v. 278; p. 502.

Washing-machine. J. J. Zofzak. No. 1,353,502; Sept. 21; v. 278; p. 405.

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Water-distributing systems of railway passenger-cars, Portable testing apparatus for. H. A. Montgomery. No. 1,353,810; Sept. 21; v. 278; p. 506.

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Cushioned wheel. Track-laying wheel.
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Winding-machine. P. F. Rhoades. No. 1,353,269; Sept. 21; v. 278; p. 398.

Window, Automobile-curtain. G. I. Bair. No. 1,353,306; Sept. 21; v. 278; p. 406.

Window-cleaner. M. Goldstone. No. 1,353,741; Sept. 21; v. 278; p. 493.

Window-holder. T. J. Heady. No. 1,353,655; Sept. 21; v. 278; p. 476.

Window-seat. L. Viezzi. No. 1,353,681; Sept. 21; v. 278; p. 481.

Window-ventilator. F. Sceltz. No. 1,353,789; Sept. 21; v. 278; p. 502.

Wire-fabric machine. A. L. Kitselman. No. 1,353,346; Sept. 21; v. 278; p. 413.

Wire-spoke nipples, Forming. H. A. House, Jr. No. 1,353,395; Sept. 21; v. 278; p. 423.

Wire-stretcher. B. Webb and W. A. Gardner. No. 1,353,365; Sept. 21; v. 278; p. 417.

Wire wheel. H. A. House, Jr. No. 1,353,394; Sept. 21; v. 278; p. 423.

Woodworking sticker or molder-head. J. Shuff. No. 1,353,616; Sept. 21; v. 278; p. 468.

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Wrench. J. L. Dillon. No. 1,353,567; Sept. 21; v. 278; p. 457.

Writer's aiding device. A. A. Disbrow. No. 1,353,790; Sept. 21; v. 278; p. 491.

Zinc-reduction furnace. J. D. Shipton. No. 1,353,362; Sept. 21; v. 278; p. 417.

Yarn-holder. A. E. Gaeng. No. 1,353,528; Sept. 21; v. 278; p. 449.

Yarn-tension device. F. A. Holt and G. Kershaw. No. 1,353,476; Sept. 21; v. 278; p. 439.

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Abrasive, detergent, and polishing materials. Chelsea Engineering Sales Corporation. No. 134,905; Sept. 21; v. 278; p. 530.

Alloys, Base-metal. W. W. Holland. No. 134,970; Sept. 21; v. 278; p. 532.

Ammonia, bluing, bleaching preparation, and disinfectant. Elberfeld Chemical & Mfg. Co. No. 134,936; Sept. 21; v. 278; p. 531.

Analgesic and antipyretic. The Bayer Company. Nos. 134,891–2; Sept. 21; v. 278; p. 529.

Apparel, Wearing-. Eloesser-Heynemann. No. 134,937; Sept. 21; v. 278; p. 531.

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Automobiles. The Baker R & L Company. No. 135,174; Sept. 21; v. 278; p. 539.

Automobiles. The Morris Adler Company. No. 134,873; Sept. 21; v. 278; p. 529.

Automobiles and repair parts therefor, Ignition and electric-lighting systems and magnetos for. The Cleveland Ignition Company. No. 134,911; Sept. 21; v. 278; p. 182.

Batteries and parts thereof, Electric. Ionite Storage Battery Co. No. 134,981; Sept. 21; v. 278; p. 532.

Batteries, Electric. Acorn Battery Company. No. 134,871; Sept. 21; v. 278; p. 529.

Beverage, Cereal malt. Suffolk Brewing Company. Nos. 135,082–3; Sept. 21; v. 278; p. 535.

Beverage, Non-alcoholic. Lash's Bitters Co. No. 134,994; Sept. 21; v. 278; p. 532.

Binding, Glove-. The Star Binding & Trimming Co. No. 135,078; Sept. 21; v. 278; p. 535.

Blood-purifier. The T. D. S. Co. No. 135,089; Sept. 21; v. 278; p. 535.

Bluing. Sunbeam Chemical Company. Nos. 135,084–5; Sept. 21; v. 278; p. 535.

Bluing in capsule form, Laundry. Blual Chemical Co. No. 134,894; Sept. 21; v. 278; p. 529.

Books in which saving-stamps will be pasted, Blank. W. M. Hoerner. No. 134,969; Sept. 21; v. 278; p. 532.

Books, Memorandum-. Rosenblum & Kern. No. 135,063; Sept. 21; v. 278; p. 534.

Books, pads, and tablets, Blank. Boorum & Pease Co. No. 134,895; Sept. 21; v. 278; p. 529.

Boot drivers and awls, machinery-springs. Morris & Yeomans. No. 135,019; Sept. 21; v. 278; p. 533.

Brake-band lining. Reflex Auto Accessory Co. No. 135,052; Sept. 21; v. 278; p. 534.

Buckets and bins, Wood, fiber, and canvas hand-. Allied Machinery Company of America. No. 134,876; Sept. 21; v. 278; p. 529.

Candles. E. R. Pershing. No. 135,041; Sept. 21; v. 278; p. 534.

Candles. Tiffin Products Inc. No. 135,092; Sept. 21; v. 278; p. 535.

Candy. Fuerst & Kraemer Limited. No. 134,949; Sept. 21; v. 278; p. 531.

Candy, Chocolate. Chocolate Truffles Co. No. 135,177; Sept. 21; v. 278; p. 539.

Candy, Chocolate. Pennsylvania Chocolate Company. No. 135,186; Sept. 21; v. 278; p. 540.

Candy, Chocolate. Theodore Gottman & Sons. No. 135,181; Sept. 21; v. 278; p. 539.

Canes, parasols, and umbrellas. Tiffany & Company. No. 135,091; Sept. 21; v. 278; p. 535.

Cars and dump-wagons, Dump, spreader, and flat. Western Wheeled Scraper Company. No. 135,162; Sept. 21; v. 278; p. 537.

Cheese, Brick. H. R. Moldenhauer. No. 135,016; Sept. 21; v. 278; p. 533.

Chocolate and candy. Pennsylvania Chocolate Company. No. 135,185; Sept. 21; v. 278; p. 540.

Cider, Champagne. Valle, Ballina y Fernandez, S. A. No. 135,097; Sept. 21; v. 278; p. 536.

Circuit-controllers, Automatic. Clox-Lite Mfg. Company. No. 134,912; Sept. 21; v. 278; p. 530.

Cleaners and parts thereof, Electric vacuum-. The Regina Company. No. 135,051; Sept. 21; v. 278; p. 534.

Cleaning and polishing materials for jewelry and metal ware. Tiffany & Company. No. 135,090; Sept. 21; v. 278; p. 535.

Cleansing, polishing, and burnishing the surfaces of metal and glass, Compounds used for. A. W. Richards. No. 135,055; Sept. 21; v. 278; p. 534.

Combs. Samstag and Hilder Bros. No. 135,064; Sept. 21; v. 278; p. 535.

Confectionery. W. H. Woodard. No. 135,170; Sept. 21; v. 278; p. 538.

Cork disks, washers, and gaskets. International Cork Company. No. 134,978; Sept. 21; v. 278; p. 532.

Cornmeal, bolted meal, buckwheat-flour, &c. Everbest Milling Corporation. No. 134,941; Sept. 21; v. 278; p. 531.

Corsets and abdominal supporters. J. C. McNeal. No. 135,007; Sept. 21; v. 278; p. 533.

Cotton and silk piece goods. Commercial Shirt Company. No. 134,917; Sept. 21; v. 278; p. 530.

Cotton piece goods. China, Japan & South America Trading Co. No. 134,907; Sept. 21; v. 278; p. 530.

Cotton piece goods. F. C. Harder. No. 135,182; Sept. 21; v. 278; p. 540.

Cough-syrup preparation. American Laboratories. No. 134,878; Sept. 21; v. 278; p. 529.

Dentrifice. The Forsyth Dental Infirmary for Children. No. 134,947; Sept. 21; v. 278; p. 531.

Dresses, skirts, coats, and suits, Ladies'. Economy Manufacturing Company. No. 135,178; Sept. 21; v. 278; p. 539.

Dyestuffs. Jennings & Company. No. 134,983; Sept. 21; v. 278; p. 532.

Electric light and power units, Motor-driven. Phx Light Company. No. 135,044; Sept. 21; v. 278; p. 534.

Electric-lighting fixtures, Ornamental art. Lincoln Manufacturing Company. No. 135,002; Sept. 21; v. 278; p. 533.

Electric-lighting fixtures and electric lamps. Edward Miller & Co. No. 135,014; Sept. 21; v. 278; p. 533.

Envelops, papeteries, writing-tablets. The Central Ohio Paper Co. No. 134,901; Sept. 21; v. 278; p. 530.

Fabrics, Textile. A. I. Ludwig. No. 135,004; Sept. 21; v. 278; p. 533.

Fans and blowers. Ilg Electric Ventilating Company. No. 134,976; Sept. 21; v. 278; p. 532.

Fire-extinguishing compounds. U. S. Fire Extinguisher Co. No. 135,096; Sept. 21; v. 278; p. 535.

Fireworks. Unexcelled Manufacturing Company. No. 135,094; Sept. 21; v. 278; p. 535.

Fishing-lines. The Horton Manufacturing Co. No. 134,972; Sept. 21; v. 278; p. 532.

Flash-lights. Shapleigh Hardware Company. No. 135,071; Sept. 21; v. 278; p. 535.

Floor-covering. The Charles William Stores. No. 135,167; Sept. 21; v. 278; p. 537.

Floor-coverings, Prepared. The Congoleum Company. No. 134,918; Sept. 21; v. 278; p. 530.

Flour, Wheat-. Gladney Milling Company. No. 134,956; Sept. 21; v. 278; p. 531.

Furniture. H. Freedman. No. 134,948; Sept. 21; v. 278; p. 531.

Garbage-cans, Sanitary. P. Cohen. No. 134,913; Sept. 21; v. 278; p. 530.

Garments, Women's and children's outer and under. Shainberg and Eber. No. 135,070; Sept. 21; v. 278; p. 535.

Germicide. H. M. Howell. No. 134,973; Sept. 21; v. 278; p. 532.

Ginger-ale, ginger-beer, sarsaparilla, &c. J. J. Reardon. No. 135,050; Sept. 21; v. 278; p. 534.

Ginghams and cotton piece goods. Parkhill Mfg. Co. No. 135,034; Sept. 21; v. 278; p. 534.

Glass dishes. Macbeth-Evans Glass Company. No. 135,009; Sept. 21; v. 278; p. 533.

Glass, Sheet-. The Super-Glass Co. No. 135,086; Sept. 21; v. 278; p. 535.

Gloves of leather and fabric. T. H. Hall. No. 134,962; Sept. 21; v. 278; p. 531.

Graphite, soapstone, and mica. St. Louis Rubber Cement Co. No. 135,080; Sept. 21; v. 278; p. 535.

Hair, Fluid to relieve falling. S. Praisner. No. 135,045; Sept. 21; v. 278; p. 534.

Hair-invigorator. R. A. Farese. No. 134,943; Sept. 21; v. 278; p. 531.

Hair-nets. C. Oppenheimer. No. 135,184; Sept. 21; v. 278; p. 540.

Hair-nets. Fulghum & Company. No. 134,950; Sept. 21; v. 278; p. 531.

Hair-nets. Paristyle Novelty Co. No. 135,035; Sept. 21; v. 278; p. 534.

Hair-tonic. A. Antoine. No. 134,885; Sept. 21; v. 278; p. 529.

Hair-tonic and dandruff-preventive. Atlanta Barbers' Supply Co. No. 134,888; Sept. 21; v. 278; p. 529.

Hair-tonic and gloss and shampoo preparation. P. B. Garden. No. 134,952; Sept. 21; v. 278; p. 531.

Handbags, Ladies'. Ritter Bros. No. 135,058; Sept. 21; v. 278; p. 534.

Hats, Women's. B. B. Brewer. No. 134,896; Sept. 21; v. 278; p. 529.

Heating and ventilating units. Ilg Electric Ventilating Company. No. 134,977; Sept. 21; v. 278; p. 532.

Hose made wholly or in part of rubber. The Goodyear Tire & Rubber Company. No. 135,180; Sept. 21; v. 278; p. 539.

Hose, Men's half-. The Liberty Hosiery Company. No. 134,997; Sept. 21; v. 278; p. 533.

Hosiery. Alexander & Irwin Co. No. 134,875; Sept. 21; v. 278; p. 529.

Hosiery. Cooper Underwear Company. No. 134,924; Sept. 21; v. 278; p. 530.

Hosiery. I. Fisher Son & Co. No. 134,984; Sept. 21; v. 278; p. 531.

Hosiery, Men's. S. M. Wertheimer. No. 135,160; Sept. 21; v. 278; p. 537.

Ice-cream toppings. Marshalltown Syrup & Sugar Company. No. 135,183; Sept. 21; v. 278; p. 540.

Inks and ink-sticks. H. L. Perez. No. 135,040. Sept. 21; v. 278; p. 534.

Inks, Printing-. J. M. Huber No. 134,974; Sept. 21; v. 278; p. 532.

Insecticides. Graylawn Farms Company. No. 134,950; Sept. 21; v. 278; p. 531.

Jellies, fruit jams, table preserves, canned fruits and vegetables. Wallace Roberts Canning Company. No. 135,188; Sept. 21; v. 278; p. 540.

Knitted caps, sweaters, gloves, mittens. Novelty Knitting Mills. No. 135,026; Sept. 21; v. 278; p. 533.

Knit napkins, Women's. Palmyra Knitting Company. No. 135,029; Sept. 21; v. 278; p. 533.

Knitted underwear, both one and two piece. Everett Knitting Works. No. 134,940; Sept. 21; v. 278; p. 531.

Knitted underwear. Ford Manufacturing Co. No. 134,945; Sept. 21; v. 278; p. 531.

Lamps, Incandescent electric. Novelty Incandescent Lamp Company. No. 135,025; Sept. 21; v. 278; p. 533.

Laxative candy. F. Garfinkel. No. 134,953; Sept. 21; v. 278; p. 531.

Leather and enameled-goods polish. E. Brown & Son (Blacking & Boot Polish Manufacturers). No. 134,897; Sept. 21; v. 278; p. 530.

Leather-dressing for shoes. M. Sita. No. 135,073; Sept. 21; v. 278; p. 535.

Leather-dressings. Keiner & Pohl Company. No. 134,988; Sept. 21; v. 278; p. 532.

Liniment for rheumatism, &c. Aidol Medicine Co. No. 134,874; Sept. 21; v. 278; p. 529.

Liniment for the treatment of rheumatism. Jordan and Hamble Compounding Company. No. 134,984; Sept. 21; v. 278; p. 532.

Lubricant, Mining-machine. The United States Graphite Company. No. 135,095; Sept. 21; v. 278; p. 535.

Medical compounds for cuts, bruises, burns, &c. J. M. Sears. No. 135,069; Sept. 21; v. 278; p. 535.

Medicated asthma and bronchial shields. B. A. Ludlow. No. 135,003; Sept. 21; v. 278; p. 533.

Medicament for the treatment of malignant blood diseases. The Collapsule Company. Nos. 134,914–15; Sept. 21; v. 278; p. 530.

Medicinal compound. Schweppes, Limited. No. 135,065; Sept. 21; v. 278; p. 535.

Medicinal preparation for cholera in hogs and poultry. L. Scott. No. 135,067; Sept. 21; v. 278; p. 535.

Medicinal preparation of hexamethylenamin. The Ely Lilly & Company. No. 134,998; Sept. 21; v. 278; p. 533.

Medicinal tablet for the treatment of anemia and chlorosis. G. W. Carnrick Co. No. 134,899; Sept. 21; v. 278; p. 530.

Medicine, Cathartic. L. E. Beach. No. 134,893; Sept. 21; v. 278; p. 529.

Medicine for gall-stones and gravel. W. R. Jeffery. No. 134,982; Sept. 21; v. 278; p. 532.

Medicine for the treatment of tuberculosis, bronchitis, and asthma. J. W. Wood. No. 135,169; Sept. 21; v. 278; p. 538.

Medicines for liver, kidneys, and stomach troubles, Compound of. Melton Medicine Company. No. 135,012; Sept. 21; v. 278; p. 533.

Mirrors, Automobile-. J. J. Kunzemann. No. 134,990; Sept. 21; v. 278; p. 532.

Napkins, Sanitary. The Cellucotton Products Co. No. 134,900; Sept. 21; v. 278; p. 530.

Oars, sweeps, and sculls. New York Boat Oar Co. No. 135,024; Sept. 21; v. 278; p. 533.

Oil for cutaneous diseases of animals, Medicated crude. Hawkeye Oil Company. No. 134,965; Sept. 21; v. 278; p. 532.

Oil used in the treatment of woolen fabrics. The American Oil Company. No. 134,879; Sept. 21; v. 278; p. 529.

Oils and greases, Lubricating. Columbia Refining Co. No. 134,916; Sept. 21; v. 278; p. 530.

Ointment for piles. Mrs. J. C. Cunningham. No. 134,925; Sept. 21; v. 278; p. 530.

Ointment for pimples, dandruff, and eczema. J. F. Gallaher. No. 134,951; Sept. 21; v. 278; p. 531.

Ointment, Scalp-. L. J. Larivee. No. 134,993; Sept. 21; v. 278 p. 532.

Oleomargarin. Middlesex County Creamery Co. No. 135,013; Sept. 21; v. 278; p. 533.

Overalls for children. E. A. Hill. No. 134,967; Sept. 21; v. 278; p. 532.

Packing, Metallic rod-. Rhodes Metallic Pack Co. No. 135,054; Sept. 21; v. 278; p. 534.

Paints and enamel paints, Dry, ready-mixed, and paste. Standard Varnish Works. No. 135,077; Sept. 21; v. 278; p. 535.

Paper and envelops, Writing-. National Papeterie Company. No. 135,023; Sept. 21; v. 278; p. 533.

Paper and mailing-envelops. Forest Paper Company. No. 134,946; Sept. 21; v. 278; p. 531.

Paper and mailing-envelops, Writing-. American Writing Paper Company. No. 134,882; Sept. 21; v. 278; p. 529.

Paper and stationery, Writing-. White & Wyckoff Manufacturing Company. No. 135,165; Sept. 21; v. 278; p. 537.

Paper and writing-tablets. The Paper Mills Company. No. 135,032; Sept. 21; v. 278 p. 534.
Paper bags. Victory Bag & Paper Co. Nos. 135,098–9; Sept. 21; v. 278; p. 536.
Paper, Filter-. Henry Kayser & Fils. No. 134,987; Sept. 21; v. 278; p. 532.
Paper holders, Memorandum-. Accounting Machine Company. No. 134,869; Sept. 21; v. 278; p. 529.
Paper or pulp towels. The Lily Cup Company. No. 135,001; Sept. 21; v. 278; p. 533.
Paper, Printing-. The Whitaker Paper Company. No. 135,164; Sept. 21; v. 278; p. 537.
Paper-stock, book, newspaper, and wrapping paper, Finished. Morey and Company. No. 135,018; Sept. 21; v. 278; p. 533.
Paper, Wrapping-. Moore & Thompson Paper Company. No. 135,017; Sept. 21; v. 278; p. 533.
Paper, Wrapping-. Whitaker Paper Company. No. 135,163; Sept. 21; v. 278; p. 537.
Paper, Writing and printing. American Writing Paper Company. No. 134,883; Sept. 21; v. 278; p. 529.
Papers and inked ribbons, Carbon-. H. G. Tilleman. No. 135,093; Sept. 21; v. 278; p. 535.
Papers, Writing, printing, blotting, and wrapping. Parsons & Whittemore. No. 135,036; Sept. 21; v. 278; p. 534.
Parcel-post packages. Par Co. Mfg. Co. No. 135,033; Sept. 21; v. 278; p. 534.
Pharmaceutical preparation used in dressing the hair and cleaning the scalp. O. P. Strayborn. No. 135,081; Sept. 21; v. 278; p. 535.
Phonograph-needles. The Torrington Company. No. 135,187; Sept. 21; v. 278; p. 540.
Phonographs and phonograph-cabinets. The Western News Company. No. 135,161; Sept. 21; v. 278; p. 537.
Phonograph-mountings. J. E. Gibson. No. 134,955; Sept. 21; v. 278; p. 531.
Photographic developer. The Wilbur White Chemical Co. No. 135,166; Sept. 21; v. 278; p. 537.
Photographic developers. Society of Chemical Industry in Basle. No. 135,075; Sept. 21; v. 278; p. 535.
Pianos. C. C. and E. E. Conway and T. P. Brown, trustees. No. 134,919–23; Sept. 21; v. 278; p. 530.
Pianos, Vacuum-creating apparatus for player-. H. W. Yeager & Co. No. 135,171; Sept. 21; v. 278; p. 538.
Pile-fabric piece goods. The Hind & Harrison Plush Co. No. 134,968; Sept. 21; v. 278; p. 532.
Pipe-bits, cigar and cigarette holders, Hard-rubber. American Hard Rubber Company. No. 134,877; Sept. 21; v. 278; p. 529.
Pipes, cigar and cigarette holders, Smoker's. Kaufmann Bros. & Bondy. No. 134,986; Sept. 21; v. 278; p. 532.
Plasters, Medicated. Bauer & Black. No. 134,890; Sept. 21; v. 278; p. 529.
Polish, Metal-. C. E. Calbreath. No. 134,898; Sept. 21; v. 278; p. 530.
Polishing preparation for automobiles, carriages, coaches, floors, &c. Hawk-Eye Mfg. Company. No. 134,964; Sept. 21; v. 278; p. 532.
Ponchos, Tobacco-. Pearson Products Corporation. No. 135,037; Sept. 21; v. 278; p. 534.
Powder-puff. L. R. Rose. No. 135,062; Sept. 21; v. 278; p. 534.
Powder, Toilet. G. B. Evans. Nos. 134,938–9; Sept. 21; v. 278; p. 531.
Preparation for shaving and skin-healing purposes. The Napco Corporation. No. 135,022; Sept. 21; v. 278; p. 533.
Preparations for the treatment of eczema, &c. E. M. Laakman. No. 134,991; Sept. 21; v. 278; p. 532.
Pumps, pumping machinery, jet and surface condensers, Steam-. The Chalmers Pump & Manufacturing Company. No. 135,176; Sept. 21; v. 278; p. 539.
Remedies, Scalp. T. J. Yntema. No. 135,172; Sept. 21; v. 278; p. 538.
Remedies, Toothache. L. H. Gloeckler. No. 134,957; Sept. 21; v. 278; p. 531.
Remedy for piles. A. M. Sharkey. No. 135,072; Sept. 21; v. 278; p. 535
Remedy for venereal diseases. M. Leprince. No. 134,996; Sept. 21; v. 278; p. 532.
Remedy for war-wounds, old sores, &c. A. N. Martin. No. 135,011; Sept. 21; v. 278; p. 533.
Rice. W. T. Wellsch & Co. Nos. 135,104–158; v. 278; pp. 536–7.
Rubber erasers. Joseph Dixon Crucible Company. Nos. 134,928–9; Sept. 21; v. 278; p. 530.
Rubber merchandise, Manufactured. General Rubber Goods Company. No. 134,954; Sept. 21; v. 278; p. 531.
Salt, Table-. International Salt Co. of New York. No. 134,979; Sept. 21; v. 278; p. 532.
Salve for the treatment of all skin diseases. M. Anderson. No. 134,884; Sept. 21; v. 278; p. 529.
Shirts and overalls, Work-. A. Rifkin. No. 135,056; Sept. 21; v. 278; p. 534.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 134,931–5; Sept. 21; v. 278; p. 531.
Silk, wool, &c., piece goods. Chatillon, Mouly, Roussel & Co. No. 134,904; Sept. 21; v. 278; p. 530.
Soap. H. Clarke & Sons. No. 134,910; Sept. 21; v. 278; p. 530.
Soap. Lange Soap Co. No. 134,992; Sept. 21; v. 278; p. 532.
Soap. M. W. M. Soap Co. No. 135,008; Sept. 21; v. 278; p. 533.
Soap. The Mills Brothers Company. No. 135,015; Sept. 21; v. 278; p. 533.
Soap. The Procter and Gamble Company. No. 135,047; Sept. 21; v. 278; p. 534.
Soap and soap chips. Pacific Coast Borax Co. No. 135,028; Sept. 21; v. 278; p. 533.
Soap flakes. Chas. W. Young & Co. No. 135,173; Sept. 21; v. 278; p. 538.
Soap flakes. S. I. Welsher. No. 135,159; Sept. 21; v. 278; p. 537.
Soap, Liquid. The Hexter Stewart Corporation Company. No. 134,966; Sept. 21; v. 278; p. 532.
Soap, shaving-sticks, cream, and powder. American Safetee Soap Corporation. No. 134,880; Sept. 21; v. 278; p. 529.
Soaps. The Omega Chemical Company. No. 135,027; Sept. 21; v. 278; p. 533.
Soil-filling machines. The Dunham Company. No. 134,930; Sept. 21; v. 278; p. 530.
Spark-plugs. The Arc-O-Manufacturing Co. Nos. 134,886–7; Sept. 21; v. 278; p. 529.
Stationery. T. Nakayama. No. 135,021; Sept. 21; v. 278; p. 533.
Steering-gears and motor-vehicles. Gemmer Manufacturing Company. No. 135,179; Sept. 21; v. 278; p. 539.
Stencils, oil-board, wax seals, and rubber bands. Henry Moss & Co. No. 135,020; Sept. 21; v. 278; p. 533.
Suits, Children's sleeping-. R. H. Macy & Co. No. 135,010; Sept. 21; v. 278; p. 533.
Suits, overcoats, and caps, Boys'. I. Gross. No. 134,961; Sept. 21; v. 278; p. 531.
Suits, Young men's three-piece. Samuel W. Peck & Co. No. 135,039; Sept. 21; v. 278; p. 534.
Tablets, Anesthetic. Dental Products Company. No. 134,927; Sept. 21; v. 278; p. 530.
Tablets, pills, and capsules, Headache-. Eli Lilly & Company. No. 134,999; Sept. 21; v. 278; p. 533.
Talking-machine needles. Plaza Music Co. No. 135,043; Sept. 21; v. 278; p. 534.
Talking-machines and parts thereof. Supertone Talking Machine Co. No. 135,087; Sept. 21; v. 278; p. 535.
Tanks, Oil-. Hammond Iron Works. No. 134,963; Sept. 21; v. 278; p. 532.
Tea. W. R. Grace & Co. No. 134,958; Sept. 21; v. 278; p. 531.
Telephone-index blank. J. F. Hutchinson. No. 134,975; Sept. 21; v. 278; p. 532.
Telephones and parts thereof. American Thermophone Company. No. 134,881; Sept. 21; v. 278; p. 529.
Tennis-rackets. F. L. Slazenger. No. 135,074; Sept. 21; v. 278; p. 535.
Tires and inner tubes of rubber, Automobile. C. O. Williams. No. 135,168; Sept. 21; v. 278; p. 538.
Tires and tubes, Automobile. R. B. Piper. No. 135,042; Sept. 21; v. 278; p. 534.
Tires and tubes for vehicles, Rubber or rubber and fabric. McClaren Rubber Company. No. 135,006; Sept. 21; v. 278; p. 533.
Toilet preparation. E. D. Watkins. No. 135,101; Sept. 21; v. 278; p. 536.
Tonic, Bitter-wine. Scranton Distributing and Mfg. Co. No. 135,068; Sept. 21; v. 278; p. 535.
Tonic, Chill and fever. C. V. Knight. No. 134,989; Sept. 21; v. 278; p. 532.
Tonic for poultry. A. W. Chappell. No. 134,903; Sept. 21; v. 278; p. 530.
Tonic, General. G. L. Lilly. No. 135,000; Sept. 21; v. 278; p. 533.
Tonic, General medicinal. E. M. Welch. No. 131,103; Sept. 21; v. 278; p. 536.
Tonic, Medicinal. M. Wais. No. 135,100; Sept. 21; v. 278; p. 536.
Tonic, Reconstruction-. J. C. R. Charest. No. 134,902; Sept. 21; v. 278; p. 530.
Tooth paste and powder. A. E. Peck Manufacturing Company. No. 135,038; Sept. 21; v. 278; p. 534.
Toy animals. M. Waterman. No. 135,101; Sept. 21; v. 278; p. 536.
Toy airplanes. The Ritchie-Wertz Manufacturing Company. No. 135,057; Sept. 21; v. 278; p. 534.
Toy hydro- and aero-planes. Great Northern Toy Co. No. 134,960; Sept. 21; v. 278; p. 531.
Toy vehicles. C. C. Church. No. 134,908; Sept. 21; v. 278; p. 530.
Tractors. Rein Drive Tractors, Limited. No. 135,053; Sept. 21; v. 278; p. 534.
Tractors and parts thereof. Cleveland Tractor Company. No. 135,175; Sept. 21; v. 278; p. 539.
Treatment of eye trouble, Liquid for. D. D. D. Company. No. 134,926; Sept. 21; v. 278; p. 530.
Undervests, storm-vests, padded and quilted vests and jackets. J. A. Rainford. No. 135,049; Sept. 21; v. 278; p. 534.
Union-suits, Athletic. Premier Manufacturing Co. No. 135,046; Sept. 21; v. 278; p. 534.
Vegetable compound used as an aid to the blood. B. H. Spalding. No. 135,076; Sept. 21; v. 278; p. 535.
Velocipedes, Children's. The Adjustable Sales Corporation. No. 134,872; Sept. 21; v. 278; p. 529.
Velvet, wool, and cashmere piece goods. Société Rodier. No. 135,059; Sept. 21; v. 278; p. 534.
Velvet, wool, and cashmere piece goods. Société Rodier. No. 135,061; Sept. 21; v. 278; p. 534.

Ventilators for exterior use on houses and buildings. Acme Ventilator Corporation. No. 134,870; Sept. 21; v. 278; p. 529.
Wagons. The Holt Manufacturing Company. No. 134,971; Sept. 21; v. 278; p. 532.
Washing-powder. Citrus Soap Company. No. 134,909; Sept. 21; v. 278; p. 530.
Washing-powder. F. O. Quinn. No. 135,048; Sept. 21; v. 278; p. 534.
Watches. Laubheim Bros. No. 134,995; Sept. 21; v. 278; p. 532.
Watches and watch-movements. Adolphe Schwob, Inc. No. 135,066; Sept. 21; v. 278; p. 535.
Waterproof fabrics in the piece. The Pantasote Leather Company. Nos. 135,030–1; Sept. 21; v. 278; p. 534.
Waterproofing textiles, Chemical compounds for. The Chemical Company of America. No. 134,906; Sept. 21; v. 278; p. 530.
Webs, Elastic. Faire Bros. & Co. No. 134,942; Sept. 21; v. 278; p. 531.
Wines. J. de Burgos Luque. No. 135,005; Sept. 21; v. 278; p. 533.
Witch-hazel, disinfectant, &c. F. P. Symonds. No. 135,088; Sept. 21; v. 278; p. 535.
Woolen and cotton piece goods. Société Rodier. No. 135,060; Sept. 21; v. 278; p. 534.
Worsted cloth in the piece. International Worsted Mills. No. 134,980; Sept. 21; v. 278; p. 532.
Zinc stearate. The Stearyte Co. No. 135,079; Sept. 21; v. 278; p. 535.

ALPHABETICAL LIST OF LABELS.

"All In One Ointment." (For Ointment.) Shepherd & Cleveland. No. 22,169; Sept. 21; v. 278; p. 541.
"American Cloth." (For Cloth.) Peters Manufacturing Co. No. 22,163; Sept. 21; v. 278; p. 541.
"Asiago Basso." (For Cheese.) The Basso Co. No. 22,143; Sept. 21; v. 278; p. 541.
"Atlasette, 'The Glove I Love.'" (For Gloves.) Atlasette Gloves Inc. No. 22,142; Sept. 21; v. 278; p. 541.
"Chocolates of Yore." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,159; Sept. 21; v. 278; p. 541.
"Essex Poisoned Wheat." (For Poisoned Food for Rats, Mice, &c.) Louis L. Staeble. No. 22,170; Sept. 21; v. 278; p. 541.
"Euco-Mint." (For Packages Containing Tooth-Paste.) P. A. Mandabach. No. 22,156; Sept. 21; v. 278; p. 541.
"'Gaviota' (Sea Gull)." (For Artificial Fertilizer.) The Pacific Guano & Fertilizer Co. No. 22,160; Sept. 21; v. 278; p. 541.
"Grapette." (For Beverage.) D. N. Goldberg. No. 22,149; Sept. 21; v. 278; p. 541.
"Gyft Chocolate from California." (For Boxes Containing Chocolates.) P. Hall. No. 22,150; Sept. 21; v. 278; p. 541.
"Harmony Forget-Me-Not Snaps." (For Snap-Fasteners.) Federal Snap Fastener Corporation. No. 22,148; Sept. 21; v. 278; p. 541.
"Her Candied Opinion." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,157; Sept. 21; v. 278; p. 541.
"Home Made." (For Bread.) Saniwax Paper Co. No. 22,166; Sept. 21; v. 278; p. 541.
"Jax." (For Cereal Beverages.) Jackson Brewing Company. No. 22,152; Sept. 21; v. 278; p. 541.
"Magic Hair Curlers." (For Applied or Fastened Hair-Curlers.) A. A. West. Nos. 22,172–3; Sept. 21; v. 278; p. 541.
"Milk Maid." (For Bread.) Saniwax Paper Co. No. 22,167; Sept. 21; v. 278; p. 541.
"Mother's." (For Bread.) Saniwax Paper Co. No. 22,165; Sept. 21; v. 278; p. 541.
"Oriental." (For Shampoo.) L. H. Lee. No. 22,155; Sept. 21; v. 278; p. 541.
"Perma-Tite Household Patch." (For Packages Containing a Household Patch for Patching Rubber Goods.) Permatite Manufacturing Company, Inc. No. 22,162; Sept. 21; v. 278; p. 541.
"Perma-Tite Valve Grinding Compound." (For Cans Containing a Valve-Grinding Compound. Permatite Manufacturing Company, Inc. No. 22,161; Sept. 21; v. 278; p. 541.
"Player Action Par Excellence." (For Actions for Player-Pianos.) R. S. Howard Company. No. 22,151; Sept. 21; v. 278; p. 541.
"Price's No Ice." (For Preservative Compound for Fish and Game.) Price Compound Company. No. 22,164; Sept. 21; v. 278; p. 541.
"Prohibition Ginger." (For a Preparation or Compound for Cramps, Chills, &c. B. F. Bigwood. No. 22,144; Sept. 21; v. 278; p. 541.
"Pronto." (For Glass Containers Containing a Fire-Extinguishing Fluid.) The Allen Corporation. No. 22,141; Sept. 21; v. 278; p. 541.
"Purple Seal Playthings." (For Educational Playthings—Namely, Picture-Builders.) C. F. Lorenzen & Co. No. 22,153; Sept. 21; v. 278; p. 541.
"Purple Seal Playthings." (For Phantom Blocks 71.) C. F. Lorenzen & Co. No. 22,154; Sept. 21; v. 278; p. 541.
"Salmotinto." (For Cantaloup-Seed.) H. Van Buskirk Seed Co. No. 22,145; Sept. 21; v. 278; p. 541.
"Shaw's." (For Strawberry Jam.) The Shaw Family, Inc. No. 22,168; Sept. 21; v. 278; p. 541.
"Shelley's Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,158; Sept. 21; v. 278; p. 541.
"Snow Crystals." (For Instantaneous Water-Softener.) California Soda Products Company. No. 22,146; Sept. 21; v. 278; p. 541.
"Succuline." (For General Tonic for Poultry.) A. W. Chappell. No. 22,147; Sept. 21; v. 278; p. 541.
"Sweet-Odor-Home." (For Liquid Deodorant.) Sweet-Odor-Home Company. No. 22,171; Sept. 21; v. 278; p. 541.

ALPHABETICAL LIST OF PRINTS.

"Big Yank." (For Work-Shirts.) Reliance Manufacturing Company. No. 5,360; Sept. 21; vol. 278; p. 542.
"Come In—Let us show you Detmer University Novelties. Latest Suitings." (For Detmer Woolens.) Detmer Woolen Co. No. 5,365; Sept. 21; v. 278; p. 542.
"Delight in Every Bite." (For Apples.) Mutual Service Corporation. No. 5,359; Sept. 21; v. 278; p. 542.
"Economy." (For Athletic Underwear.) The B. V. D. Company. No. 5,354; Sept. 21; v. 278; p. 542.
"Handy Candy Cloves." (For Candy—namely, Cloves.) Beech-Nut Packing Company. No. 5,352; Sept. 21; v. 278; p. 542.
"Handy Candy Licorice." (For Candy—namely, Licorice.) Beech-Nut Packing Company. No. 5,353; Sept. 21; v. 278; p. 542.
"Hays Gloves." (For Leather Gloves.) The Daniel Hays Company. No. 5,355; Sept. 21; v. 278; p. 542.
"My Mama." (For Phonographs.) World Phonograph Company. No. 5,364; Sept. 21; v. 278; p. 542.
"No Need Putting in a Call for the Old Family Yard Stick." (For Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,362; Sept. 21; v. 278; p. 542.
"Ouija." (For Talking Board.) W. Fuld. No. 5,358; Sept. 21; v. 278; p. 542.
"Shot." (For Non-Alcoholic Beverage.) J. A. Franklin. No. 5,356; Sept. 21; v. 278; p. 542.
"The Drink With a Tickle for a Nickle." (For Non-Alcoholic Beverage.) J. A. Franklin. No. 5,357; Sept. 21; v. 278; p. 542.
"The New Improved Double Floor Whitaker Denture Vacuum." (For Vacuum Denture.) G. S. Whitaker. No. 5,363; Sept. 21; v. 278; p. 542.
"What a Grip You've Got on Smokesport at Both Ends." (For Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,361; Sept. 21; v. 278; p. 542.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Acid ester of salicylic acid. Salicylic. Merck & Co. No. 132,809; Sept. 21; v. 278; p. 522.
Acid, Sulfuric. The Eagle-Picher Lead Co. No. 131,471; Sept. 21; v. 278; p. 520.
Alloy steels in bars, billets, and shapes. The Carpenter Steel Company. No. 134,572; Sept. 21; v. 278; p. 525.
Alloy steels in bars, billets, and shapes. The Carpenter Steel Company. No. 134,577; Sept. 21; v. 278; p. 526.
Alloy steels in bars, billets, and shapes. The Carpenter Steel Company. Nos. 134,579–80; Sept. 21; v. 278; p. 526.
Alloy steels in bars, billets, and shapes. The Carpenter Steel Company. No. 134,582; Sept. 21; v. 278; p. 526.
Alloys, White-metal. Pan American Smelting Works. No. 135,341; Sept. 21; v. 278; p. 528.
Antipyretic and diaphoretic capsules for headaches, colds, and la grippe. The Morton Chemical Company. No. 131,718; Sept. 21; v. 278; p. 521.
Apples, Fresh. Fruit Supply Company. No. 130.165; Sept. 21; v. 278; p. 515.
Auto, piano, and furniture polish. F. M. Taft. No. 134,615; Sept. 21; v. 278; p. 526.
Batteries, Indicators for indicating the internal condition of storage and other. Hempy-Cooper Manufacturing Company. No. 133,920; Sept. 21; v. 278; p. 525.
Beef and iron compound, blood-purifier, &c. Republic Druggist Syndicate. No. 130,292; Sept. 21; v. 278; p. 516.
Beverages containing less than one-half of one per cent. of alcohol by volume. C. E. Ritzler. No. 132,570; Sept. 21; v. 278; p. 523.
Brushes, spray painting apparatus operated by compressed air, Air-. The Aerograph Company. No. 127,790; Sept. 21; v. 278; p. 511.
Camphor substitute. Commonwealth Chemical Corp. No. 131,856; Sept. 21; v. 278; p. 521.
Candied popcorn crispettes. R. D. Brown. No. 120,237; Sept. 21; v. 278; p. 510.
Candy. U. R. S. Candy Stores. No. 133,116; Sept. 21; v. 278; p. 524.
Candy. Paul F. Beich Co. No. 134,004; Sept. 21; v. 278; p. 525.
Canned fruits. California Sanitary Canning Co. No. 123,614; Sept. 21; v. 278; p. 510.
Canned fruits and vegetables. Bisceglia Brothers. No. 130,567; Sept. 21; v. 278; p. 516.
Canned fruits and vegetables. The Springfield Canning Co. No. 131,836; Sept. 21; v. 278; p. 521.
Canned goods. California Packing Corporation. No. 127,893; Sept. 21; v. 278; p. 512.
Canned pork and beans, beans and spaghetti. The Franco-American Food Company. No. 128,059; Sept. 21; v. 278; p. 512.
Canned sardines. Seacoast Canning Co. No. 127,777; Sept. 21; v. 278; p. 511.
Capsules to be taken internally for the treatment of piles. C. A. Moore, Sr. No. 132,548; Sept. 21; v. 278; p. 522.
Check-writers. New Era Mfg. Co. No. 134,481; Sept. 21; v. 278; p. 525.
Chilled fresh meats. Improved Chilling and Transport Limited. No. 132,693; Sept. 21; v. 278; p. 523.
Chocolates. D. Auerbach & Sons. No. 133,121; Sept. 21; v. 278; p. 524.
Chocolates, bonbons, and candies. Norris, Inc. No. 133,675; Sept. 21; v. 278; p. 524.
Clothing, Women's and misses. Avedon & Company. No. 130,007; Sept. 21; v. 278; p. 514.
Coffee. W. H. Bruning. No. 123,870; Sept. 21; v. 278; p. 510.
Colors, Food-. National Aniline & Chemical Company. Nos. 131,440–4; Sept. 21; v. 278; p. 520.
Compound for treatment of the stomach, liver, bowels, &c., Vegetable. S. G. G. Henderson. No. 132,249; Sept. 21; v. 278; p. 521.
Creosote, &c., Liquid containing. Page & Hill Co. No. 132,417; Sept. 21; v. 278; p. 522.
Dental pastes, mouth-washes, pyorrhea remedies. Associated Dental Supply Co. No. 126,835; Sept. 21; v. 278; p. 511.
Dentifrices. The Omega Chemical Company. No. 130,609; Sept. 21; v. 278; p. 517.
Deodorant and germicide. U. S. Sanitary Specialties Corporation. No. 131,890; Sept. 21; v. 278; p. 521.
Disinfectant. Mackie Pine Oil Specialty Co. No. 129,938; Sept. 21; v. 278; p. 514.
Disinfectants and deodorants. Ideal Disinfectant Co. No. 129,503; Sept. 21; v. 278; p. 514.
Dyes. Young Smyth Field Company. No. 128,637; Sept. 21; v. 278; p. 513.
Dyes, Anilin. Wetterwald & Pfister Co. No. 130,781; Sept. 21; v. 278; p. 517.
Embalming fluid. Beecher-Hollins Co. No. 130,510; Sept. 21; v. 278; p. 516.
Flavoring extracts, cocoa, coffee, &c. The Weideman Company. No. 986,642; Sept. 21; v. 278; p. 509.
Flavoring material. Grape Ola Products Corporation. No. 126,375; Sept. 21; v. 278; p. 511.
Flour-improvers. Woodlands Limited. No. 133,177; Sept. 21; v. 278; p. 524.
Flour, Wheat-. Big Diamond Mills Co. No. 107,904; Sept. 21; v. 278; p. 509.
Flour, Wheat-. Cape County Milling Company. Nos. 135,267–8; Sept. 21; v. 278; p. 527.
Fruit and flavoring extracts, &c., for use in the preparation of non-alcoholic beverages. Adam-Christian Co. No. 118,100; Sept. 21; v. 278; p. 510.
Fuel intensifier, Liquid-. Brauer & Kreidt. No. 130,946; Sept. 21; v. 278; p. 518.
Germicides, insecticides, and disinfectants. Magnolia Chemical Company. No. 131,582; Sept. 21; v. 278; p. 520.
Gum, Chewing-. Short & Son Co. No. 120,886; Sept. 21; v. 278; p. 510.
Gasolene, Preparation to be added to. Mile-A-Minute Incorporated. No. 130,104; Sept. 21; v. 278; p. 515.
Hair-coloring. Zauder Bros. Inc. No. 132,624; Sept. 21; v. 278; p. 523.
Hair-coloring preparation. M. Levy. No. 131,710; Sept. 21; v. 278; p. 521.
Hair-growers and hair-shampooing mixture. T. Criss. No. 130,753; Sept. 21; v. 278; p. 517.
Hair-shampoo. Salux Laboratories. No. 131,989; Sept. 21; v. 278; p. 521.
Harrow, Spiral. Dubuque Spiral Harrow Co. No. 133,615; Sept. 21; v. 278; p. 524.
Hair-tonic. S. V. Howard. No. 132,790; Sept. 21; v. 278; p. 524.
Hair tonic and invigorant. H. H. Ayer. No. 131,062; Sept. 21; v. 278; p. 518.
Hats and bonnets, Ladies'. M. E. Baker. No. 135,549; Sept. 21; v. 278; p. 528.
Hoists. The Denver Rock Drill Manufacturing Company. No. 134,703; Sept. 21; v. 278; p. 527.
Insecticides. M. F. Butcher. No. 130,910; Sept. 21; v. 278; p. 518.
Insecticides. Corona Chemical Company. No. 131,066; Sept. 21; v. 278; p. 518.
Insecticides. Garden Chemical Company. No. 130,722; Sept. 21; v. 278; p. 517.
Insecticides. E. S. Morris. No. 128,367; Sept. 21; v. 278; p. 513.
Iron and steel. Federal Tool & Alloy Steel Corporation. Nos. 135,703–4; Sept. 21; v. 278; p. 528.
Iron, Bar-. Logan Iron and Steel Company. No. 135,374; Sept. 21; v. 278; p. 528.
Kerosene, Deodorized. Ultra Refined Crude Products Company. No. 135,676; Sept. 21; v. 278; p. 528.
Laxative, Apple-syrup. The Apple-Lax Company. No. 129,921; Sept. 21; v. 278; p. 514.
Liniment for rheumatism, sprains, bruises, &c. E. F. Harper. No. 129,927; Sept. 21; v. 278; p. 514.
Laxative wafers. V. V. Bonkowski. No. 125,529; Sept. 21; v. 278; p. 511.
Liniment for rheumatism. J. A. Boon. No. 130,201; Sept. 21; v. 278; p. 515.
Lotion, Eczema-. The Worsham Company. No. 130,187; Sept. 21; v. 278; p. 515.
Medicinal pills. Dr. W. Selbert. No. 131,287; Sept. 21; v. 278; p. 519.
Medicinal preparations for the treatment of bot and worm ailments in horses, &c. Dakota Chemical Company. No. 132,208; Sept. 21; v. 278; p. 522.
Medicinal preparation for treatment of colds and the liver. Rex Relief Company. No. 129,247; Sept. 21; v. 278; p. 514.
Medicinal preparation which acts on the liver and bowels. O. H. Lovell. No. 131,027; Sept. 21; v. 278; p. 518.
Medicine for hypodermic use for spasm of any part of urinary tract. Lloyd Brothers. No. 130,904; Sept. 21; v. 278; p. 517.
Medicine for rheumatism, neuralgia, &c., External. J. Sveda. No. 128,870; Sept. 21; v. 278; p. 513.
Medicine for the treatment of anhidrosis. M. Fraiberger. No. 128,347; Sept. 21; v. 278; p. 513.
Medicine to be used in the treatment of gonorrhea. H. S. Scarbrough. No. 132,336; Sept. 21; v. 278; p. 522.
Medicine for venereal diseases. A. Carrillo. No. 132,591; Sept. 21; v. 278; p. 523.
Medicine or bitters, Laxative. P. A. Baltranas. No. 130,260; Sept. 21; v. 278; p. 516.

(REGISTRATION APPLIED FOR.)

Medicines for use in the treatment of diseases of the kidneys and bladder, uterus, worms, &c. Lloyd Brothers. No. 130,905; Sept. 21; v. 278; p. 518.
Metal-working machinery and tools. Richard Bros. Die Works. No. 129,605; Sept. 21; v. 278; p. 514.
Molasses, Live-stock-feeders'. Penick & Ford, Ltd. No. 132,554; Sept. 21; v. 278; p. 522.
Mosquito-repelling toilet powder. T. K. Boesch. No. 132,682; Sept. 21; v. 278; p. 523.
Oil, Laxative paraffin-. Stearns & White Co. No. 132,408; Sept. 21; v. 278; p. 521.
Oils for conveying heat by circulation between heating apparatus and heat-radiating apparatus, Mineral. The Merrill Process Co. No. 125,397; Sept. 21; v. 278; p. 511.
Oils, Lubricating-. G. A. Preiss. No. 135,109; Sept. 21; v. 278; p. 527.
Oils suitable for tanning leather. National Oil Products Co. No. 130,728; Sept. 21; v. 278; p. 517.
Paint-pigments and ready-mixed paints. Toch Brothers. No. 134,439; Sept. 21; v. 278; p. 525.
Paints, calcimines, varnishes, &c. Patek Brothers. No. 113,317; Sept. 21; v. 278; p. 509.
Paints, Enamel, paste, &c. W. H. Stoneman. No. 128,028; Sept. 21; v. 278; p. 512.
Paints, Ready-mixed. W. H. Stoneman. No. 128,029; Sept. 21; v. 278; p. 512.
Perfume. A. Flores. No. 128,346; Sept. 21; v. 278; p. 513.
Perfume, toilet water, face-powder, &c. Mellier Company Perfumer. No. 130,052; Sept. 21; v. 278; p. 515.
Perfumes, face powders, cream, and paints, &c. D. Jaquet. No. 126,327; Sept. 21; v. 278; p. 511.
Perfumes, incense, and toilet articles. Kabushiki Kaisha Hiro Sampei Shoten. No. 122,047; Sept. 21; v. 278; p. 510.
Perfumery, face-creams, tooth-powder, &c. J. F. Barvoets. No. 127,993; Sept. 21; v. 278; p. 512.
Petroleum products. Bigheart Producing & Refining Company. No. 134,180; Sept. 21; v. 278; p. 525.
Picture films, Motion-. Willis & Eckels. No. 131,295; Sept. 21; v. 278; p. 519.
Pile remedy. A. L. Fitzgerald. No. 132,688; Sept. 21; v. 278; p. 523.
Pistons. The Perfection Auto Parts Company. No. 120,287; Sept. 21; v. 278; p. 510.
Potatoes, White. John F. Ayres. No. 133,814; Sept. 21; v. 278; p. 524.
Powder, Face-. Di Brenle Mfg. Co. No. 122,595; Sept. 21; v. 278; p. 510.
Powder, Talcum. Talcum Puff Co. No. 131,925; Sept. 21; v. 278; p. 521.
Powder, Talcum. Talcum Puff Co. No. 132,327; Sept. 21; v. 278; p. 522.
Powders, toilet rouge, Complexion and talcum. The C. S. Welch Company. No. 130,499; Sept. 21; v. 278; p. 516.
Printers' machinery. Miller Saw-Trimmer Company. No. 117,054; Sept. 21; v. 278; p. 509.
Preparation for cleaning and renovating oil and gas wells. J. R. Flannery. No. 131,418; Sept. 21; v. 278; p. 519.
Preparation for coughs, colds, and first stages of consumption. Hegewith Chemical Works. No. 132,692; Sept. 21; v. 278; p. 523.
Preparation for prevention and relief of coughs, colds, croup, &c. G. W. Crane. No. 132,914; Sept. 21; v. 278; p. 524.
Preparation for the treatment of disorders of the stomach and liver. H. Bell. No. 132,343; Sept. 21; v. 278; p. 522.
Preparation for the treatment of insect-bites and stings. W. J. Mears. No. 131,078; Sept. 21; v. 278; p. 519.
Preparation for use in promoting the growth of hair, &c. E. H. Lee. No. 132,748; Sept. 21; v. 278; p. 524.
Preparation for the treatment of the hair and scalp. J. Hauser. No. 132,435; Sept. 21; v. 278; p. 522.
Preparation used to soften cuticle and remove stains. The Sani Mani Laboratory. No. 134,733; Sept. 21; v. 278; p. 527.
Razors, Safety-. Gillette Safety Razor Company. No. 124,856; Sept. 21; v. 278; p. 511.
Remedies for coughs, colds, and la grippe. Lind Drug Co. No. 130,838; Sept. 21; v. 278; p. 517.
Remedy for the internal treatment of coughs and colds. The Mirolene Co. No. 131,081; Sept. 21; v. 278; p. 519.
Roasters and parts and supplies for same for roasting coffee, &c. Jabez Burns & Sons. No. 134,634; Sept. 21; v. 278; p. 527.
Rouges, face-creams, talcs, &c. Jolie, Inc. No. 131,219; Sept. 21; v. 278; p. 519.
Rouge paste, liquid, or powder. H. H. Ayer. No. 131,060; Sept. 21; v. 278; p. 518.
Russian dressing and mayonnaise. O. Schmidt. No. 131,670; Sept. 21; v. 278; p. 520.
Rust-eradicator. H. H. Sebree. No. 128,707; Sept. 21; v. 278; p. 513.
Rust-stains, Chemical products for removing. J. Tirel. No. 124,582; Sept. 21; v. 278; p. 510.
Salt. Remington Salt Company. No. 128,863; Sept. 21; v. 278; p. 513.
Salves and ointments. Henry Thayer & Co. No. 130,450; Sept. 21; v. 278; p. 516.
Sardines. La Manna, Azema & Farman. No. 131,273; Sept. 21; v. 278; p. 519.
Shampoo. Shuptrine Company. No. 131,452; Sept. 21; v. 278; p. 520.
Shampoo liquid and jelly. Vosburgh (Inc.). No. 130,348; Sept. 21; v. 278; p. 516.
Shovels, spades, scoops, &c. The Wyoming Shovel Works. No. 134,285; Sept. 21; v. 278; p. 525.
Sickles. J. Ogden. No. 134,723; Sept. 21; v. 278; p. 527.
Soap shampoo and bath-foam, Antiseptic liquid-. H. H. Ayer. No. 131,059; Sept. 21; v. 278; p. 518.
Soldering-flux. F. Chapman. No. 128,295; Sept. 21; v. 278; p. 513.
Solutions for hypodermic intramuscular injections. E. H. Marcy Laboratories. No. 131,343; Sept. 21; v. 278; p. 519.
Tablet, Laxative. Norma-Tone Co. No. 131,229; Sept. 21; v. 278; p. 519.
Tablets for la grippe and colds. O. W. Spicer. No. 130,988; Sept. 21; v. 278; p. 518.
Tablets, Laxative. E. M. Morton. No. 130,149; Sept. 21; v. 278; p. 515.
Tea. Hudson Coffee Mills. No. 130,039; Sept. 21; v. 278; p. 515.
Toilet preparations. B. Altman & Co. No. 131,460; Sept. 21; v. 278; p. 520.
Toilet preparations. Roosa & Ratliff Chemical Co. 131,828; Sept. 21; v. 278; p. 521.
Toilet preparations. J. Tanenbaum. No. 132,898; Sept. 21; v. 278; p. 524.
Tonic. Albano & Gangemi. No. 130,310; Sept. 21; v. 278; p. 516.
Tonic and restorative preparations. Proto Chemical Co. 129,803; Sept. 21; v. 278; p. 514.
Tonic for hogs. The Avalon Farms Company. No. 131,250; Sept. 21; v. 278; p. 519.
Tonics and worm-powders, Stock-. Sheats Stock Tonic Company. No. 130,623; Sept. 21; v. 278; p. 517.
Tool-steel in bars, billets, and shapes. The Carpenter Steel Company. Nos. 134,574–6; Sept. 21; v. 278; p. 526.
Tool-steel in bars, billets, and shapes. The Carpenter Steel Company. No. 134,581; Sept. 21; v. 278; p. 526.
Tool-steels in bars, billets, and shapes. The Carpenter Steel Company. No. 134,571; Sept. 21; v. 278; p. 525.
Tool-steels in bars, billets, and shapes. The Carpenter Steel Company. No. 134,584; Sept. 21; v. 278; p. 526.
Tooth-paste. United Drug Company. No. 130,396; Sept. 21; v. 278; p. 516.
Turning-lathes, planers, drill-presses, &c. William Sellers & Company. No. 132,622; Sept. 21; v. 278; p. 523.
Valves and strainers, Starting and check. William Sellers & Company. No. 132,621; Sept. 21; v. 278; p. 523.
Winding machines for thread, yarn, cord, twine, &c.; countershafts and parts thereof. Universal Winding Company. No. 134,283; Sept. 21; v. 278; p. 525.
Wrenches. L. F. Grammes & Sons. No. 134,817; Sept. 21; v. 278; p. 527.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 21, 1920.

NOTE.—First number—class, second number—subclass, third number—patent number.

2— 67: 1,353,181
122: 1,353,480
149: 1,353,759
150: 1,353,228
4— 5: 1,353,230
1,353,559
1,353,804
18: 1,353,749
5— 1: 1,353,260
14: 1,353,754
18: 1,353,162
1,353,163
39: 1,353,579
41: 1,353,502
43: 1,353,537
52: 1,353,536
6— 9: 1,353,137
7— 15: 1,353,496
12— 128: 1,353,327
142: 1,353,308
13— 5: 1,353,337
10: 1,353,295
14: 1,353,435
15— 13: 1,353,429
38: 1,353,184
39: 1,353,780
59: 1,353,741
16— 4: 1,353,195
46: 1,353,219
77: 1,353,506
87: 1,353,218
165: 1,353,784
17— 24: 1,353,803
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	8: 1,353,711	236—	21: 1,353,174	244—	1: 1,353,518		161: 1,353,560		19: 1,353,809	304—	10: 1,353,428
	19: 1,353,665		46: 1,353,434		2: 1,353,407		186: 1,353,238		61: 1,353,800		21: 1,353,782
	25: 1,353,471		56: 1,353,767		12: 1,353,147		1,353,365	271—	28: 1,353,519		69: 1,353,651
220—	9: 1,353,236	237—	78: 1,353,744		1,353,179	255—	22: 1,353,304	274—	2: 1,353,324		82: 1,353,503
	11: 1,353,280	238—	10: 1,353,577		1,353,666		76: 1,353,354		35: 1,353,479		99: 1,353,177
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	62: 1,353,680		53: 1,353,412		1,353,544		43: 1,353,641	279—	75: 1,353,209		43: 1,353,624
221—	60: 1,353,747		141: 1,353,771		19: 1,353,692		119: 1,353,268	280—	15: 1,353,141		45: 1,353,157
	73.5: 1,353,320		169: 1,353,572		21: 1,353,378		1,353,422		50: 1,353,180		85: 1,353,552
	107: 1,353,467		191: 1,353,653		29: 1,353,212		125: 1,353,322		94: 1,353,610		102: 1,353,787
	127: 1,353,356		322: 1,353,204		31: 1,353,538		129: 1,353,768		112: 1,353,470		138: 1,353,406
223—	54: 1,353,632		324: 1,353,206	246—	31: 1,353,436		236: 1,353,449	281—	38: 1,353,774		145: 1,353,306
224—	29: 1,353,762	240—	2: 1,353,469		33: 1,353,250	258—	10: 1,353,738	283—	23: 1,353,286	308—	2: 1,353,247
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	37: 1,353,712		8.5: 1,353,348		307: 1,353,715	259—	72: 1,353,443		36: 1,353,515		1,353,737
	53: 1,353,210		41: 1,353,231	249—	18: 1,353,139		96: 1,353,165		38: 1,353,315	309—	102: 1,353,650
	86: 1,353,628		111: 1,353,562	250—	6: 1,353,698		1,353,166		63: 1,353,371		144: 1,353,495
	1,353,718		1,353,563		33: 1,353,735		1,353,425	291—	34: 1,353,560	310—	11: 1,353,573
	1,353,719	241—	1: 1,353,671	251—	127: 1,353,409	261—	12: 1,353,288	292—	142: 1,353,533		63: 1,353,161
228—	58: 1,353,270		6: 1,353,483	253—	47: 1,353,360		41: 1,353,313		202: 1,353,780	312—	10: 1,353,674
229—	6: 1,353,629		1,353,592		1,353,687		85: 1,353,685		222: 1,353,447	304—	24: 1,353,681
230—	28: 1,353,216	242—	13: 1,353,269		77: 1,353,710	262—	19: 1,353,188		241: 1,353,655	305—	13: 1,353,256
	33: 1,353,258		43: 1,353,474		1,353,797	266—	19: 1,353,362		275: 1,353,523		

BANGOR PUBLIC
DEC 20 1920
LIBRARY

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED DURING THE MONTH OF SEPTEMBER, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aaron, Solomon E., Boston, Mass. Wire-stripping pliers. No. 1,354,365; Sept. 28; v. 278; p. 662.
Aarts, Jacobus G., Dongen, near Breda, Netherlands. Furnace. No. 1,352,338; Sept. 7; v. 278; p. 120.
Aaseth, Gustav, Christiania, Norway. Machine for cultivating unbroken ground. No. 1,353,012; Sept. 14; v. 278; p. 289.
Abbott, Adrian O., Jr., Detroit, Mich. Fishing-reel. No. 1,353,816; Sept. 28; v. 278; p. 551.
Abramowitz, Hyman, New York, N. Y. Toy machine-gun. No. 1,353,696; Sept. 21; v. 278; p. 484.
Abrams, William B., and R. I. Gay, Philadelphia, Pa. Divider for dough or the like. No. 1,352,424; Sept. 14; v. 278; p. 171.
Acme Engineering & Mfg. Co. (See Brandstetter, Josef, assignor.)
Adamczyk, Florvan, Coupon, Pa. Railway-tie construction. No. 1,354,366; Sept. 28; v. 278; p. 662.
Adams, Harry E. (See Decker, H. L., and Adams.)
Adams-Pond Company. (See Allbright, Edwin F., assignor.)
Adams, Raymond K., Dwyer, Wyo. Hoisting-crane or stacker. No. 1,353,697; Sept. 21; v. 278; p. 485.
Adams, Thomas M., Houston, Tex. Standing valve. No. 1,353,303; Sept. 21; v. 278; p. 405.
Adams & Westlake Company, The. (See Hamm, William S., assignor.)
Adcock, R. C., *et al.* (See Swatzell, David N., assignor.)
Addressograph Company. (See Duncan, Joseph S., assignor.)
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Combined carrier and radio system. No. 1,353,698; Sept. 21, v. 278; p. 485.
Agrillo, Giuseppe, Brooklyn, N. Y. Bottle-filler. No. 1,352,165; Sept. 7; v. 278; p. 87.
Aguere, Arthur. West Somerville, Mass. Electric plug. No. 1,353,699; Sept. 21; v. 278; p. 485.
Ahlm, Charles E. F., Cleveland Heights, Ohio. Battery-charging and starting system for automobiles. No. 1,352,166; Sept. 7; v. 278; p. 87.
Ahlstrom, Fritz A., Absaraka, N. D. Fencing-machine. No. 1,353,304; Sept. 21; v. 278; p. 405.
Ahrendt, William G., Newark, N. J. Belt-buckle. No. 1,354,450; Sept. 28; v. 278; p. 679.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and pumping system. (Reissue.) No. 14,046; Sept. 7; v. 278; p. 135.
Air Reduction Company. (See Russell, Richard F., assignor.)
Aitken, William A., Gravesend, England. Fourdrinier paper-making machine. No. 1,353,941; Sept. 28; v. 278; p. 575.
Ajello, Gaetan, New York, N. Y. Safety device for aircraft. No. 1,354,367; Sept. 28; v. 278; p. 663.
Akin, Delbert A., assignor of one-third to J. Meckay, and one-third to E. F. Fuller, Spokane, Wash. Dental flask and charger. No. 1,353,942; Sept. 28; v. 278; p. 576.
Aktiebolaget Gyro. (See Cassell, Gunnar E., assignor.) 1,352,644; Sept. 14; v. 278; p. 216.
Aktiebolaget Svenska Kullagerfabriken. (See Bråkenhielm, Carl A. B. R., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Palmgren, Nils A., assignor.)
Aladdin Products Company. (See Robison, Clinton S., assignor.)
Albany Perforated Wrapping Paper Company. (See Crandell, Willis S., assignor.)
Albé, Angelo, Turin, Italy. Type-casting machine. No.
Albers, William C., New York, assignor to A. F. Pierce, Brooklyn, N. Y. Picture-projecting machine. No. 1,352,420; Sept. 14; v. 278; p. 171.
Alberti, Emilio, New York, assignor to International Cork Company, Brooklyn, N. Y. Feeding attachment for crown-cork making machines. No. 1,353,136; Sept. 21; v. 278; p. 373.
Albrecht, Armin G., St. Paul, Minn. Wheel-puller. No. 1,354,271; Sept. 28; v. 278; p. 644.
Alexander, Edward E., and J. T. Piggott, assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Pipe-ball-annealing furnace. No. 1,354,368; Sept. 28; v. 278; p. 663.
Alitalo, Kustaa E., Åbo, Finland. Fire-extinguishing apparatus. No. 1,353,864; Sept. 28; v. 278; p. 564.
Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,353,700; Sept. 21; v. 278; p. 485.
Allana, Priscilla. (See Lambert, Emma N., assignor.)
Allbright, Edwin F., Atlantic, assignor to Adams-Pond Company, Inc., Boston, Mass. Concrete construction. No. 1,353,373; Sept. 21; v. 278; p. 419.
Allen, Arthur M., Hope, Ark. Seat-hook. No. 1,353,701; Sept. 21; v. 278; p. 485.
Allen, Charles J., *et al.*, executors. (See Allen, Samuel L.)
Allen, Edward A., Portland, Me. Electrolytic cell. No. 1,351,886; Sept. 7; v. 278; p. 35.
Allen, Elizabeth R., *et al.*, executors. (See Allen, Samuel L.)
Allen Hosiery Company. (See Longtin, William J., assignor.)
Allen, Howard G., Albion, N. Y. Spring-motor. No. 1,351,727; Sept. 7; v. 278; p. 3.
Allen, Lewis H., West Springfield, Mass. Safety-razor. No. 1,351,826; Sept. 7; v. 278; p. 22.
Allen, Samuel L., deceased, Moorestown, N. J.; S. H. Allen, C. J. Allen, E. R. Allen, S. J. Allen, and E. A. Elfreth, executors. Nutcracker. No. 1,351,983; Sept. 7; v. 278; p. 54.
Allen, Samuel L., deceased, Moorestown, N. J. S. H. Allen, C. J. Allen, E. R. Allen, S. J. Allen, and E. A. Elfreth, executors. Agricultural implement. No. 1,351,984; Sept. 7; v. 278; p. 54.
Allen, Sarah H., *et al.*, executors. (See Allen, Samuel L.)
Allen, Susan J., *et al.*, executors. (See Allen, Samuel L.)
Allen, Walter S., assignor to Detroit Steel Casting Company, Detroit, Mich. Cast vehicle-wheel. No. 1,353,819; Sept. 28; v. 278; p. 551.
Allen, William M., assignor of one-fourth to Richard B. Runke, Merrill, Wis. Spring-winding mechanism for phonographs. No. 1,351,938; Sept. 7; v. 278; p. 45.
Alldredge, Francis B., Des Moines, Iowa. Combined worm and lever steering-gear device. No. 1,351,937; Sept. 7; v. 278; p. 45.
Allison, Otho G., *et al.* (See Link, William, assignor.)
Alnutt, Lawrence L., Chattanooga, Tenn. Musical-instrument-string retoner. No. 1,353,135; Sept. 21; v. 278; p. 373.
Alsina, Vicente C., and G. Fernandez, Buenos Aires, Argentina. Preserving manufactured or leaf tobacco. No. 1,352,421; Sept. 14; v. 278; p. 171.
Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Heat-insulated vessel and casing therefor. No. 1,353,305; Sept. 21; v. 278; p. 405.
Altpeter, Oscar, Milwaukee, Wis. Machine for making composite shingles. No. 1,352,931; Sept. 14; v. 278; p. 273.
Aluminum Castings Company, The. (See Jeffries, Z., and Gibson, assignors.)
Aluminum Castings Company, The. (See Stay, Theron D., assignor.)
Alvin Electrical Products Company. (See Olevin, Adolph, assignor.)
Ambruster, Cornelius, Roslyn, Pa. Storage-battery electrode or plate. No. 1,354,086; Sept. 28; v. 278; p. 606.
American Bar Lock Company. (See Law, Charles H., assignor.)
American Blower Company. (See Szekely, Ernest, assignor.)
American Briquet Company. (See Plummer, Robert S., assignor.)
American Can Company. (See Doyle, J., and Kenny, assignors.)
American Can Company. (See Freundt, Louis J., assignor.)
American Can Company. (See Gray, James A., assignor.)
American Coke and Chemical Company. (See Roberts, Arthur, assignor.)
American Cyanamid Company. (See Buchanan, Guy H., assignor.)
American Electrical Heater Company. (See Kuhn, F., Thomas, and Spiess, assignors.)
American Kron Scale Company. (See Barrett, Joseph C., assignor.)
American Laundry Machinery Company, The. (See Miller, Ernest W., assignor.)
American Metal Cap Company. (See Hammer, Charles, assignor.)

American Mine Door Company, The. (See Bowman, C. L., and Body, assignors.)
American Optical Company. (See Boutelle, William H., assignor.)
American Safety Device Company. (See Johnston, Frank B., assignor.)
American Safety Razor Company. (See Behrman, Marcus B., assignor.)
American Smelting & Refining Company. (See Cameron, F. K., Cullen, and Hyde, assignors.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Campbell, George A., assignor.)
American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)
American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
American Telephone and Telegraph Company. (See Fish, Lewin B., assignor.)
American Telephone and Telegraph Company. (See Grisson, George, assignor.)
American Telephone and Telegraph Company. (See Mills, John, assignor.)
American Telephone & Telegraph Company. (See Sinclair, Charles G., Jr., assignor.)
American Telephone and Telegraph Company. (See Thompson, George K., assignor.)
American Tool Works Company, The. (See Sosa, A. M., Robinson, and Schatz, assignors.)
American Vulcanized Fibre Co. (See Pierce, James F., assignor.)
American Wagon Company. (See Kuhnen, Alexander F., assignor.)
Ames, Butler, Lowell, Mass. Electric horn. No. 1,351,729; Sept. 7; v. 278; p. 3.
Ammann, Theophile, Berne, Switzerland. Rotary switch. No. 1,353,820; Sept. 28; v. 278; p. 551.
Anderegg, George, assignor of one-half to R. C. Tarrant, Sheridan, Wyo. Chain tightener and lock. No. 1,352,339; Sept. 7; v. 278; p. 120.
Andersen, Hans, Nymore, Minn. Log-skidding grapple. No. 1,353,503; Sept. 21; v. 278; p. 445.
Anderson, Albert L., assignor of one-fourth to J. F. Mazna and one-fourth to G. B. Shafer, Spokane, Wash. Demountable rim. No. 1,353,943; Sept. 28; v. 278; p. 576.
Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
Anderson, Caroline E., Park City, Utah. Maternity-corset. No. 1,352,422; Sept. 14; v. 278; p. 171.
Anderson, Eugene G., Seattle, Wash. Display-table. No. 1,353,208; Sept. 21; v. 278; p. 387.
Anderson, Harry T., Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Manufacture of yokes for railway draft-gears. No. 1,352,167; Sept. 7; v. 278; p. 87.
Anderson, Luther H., Seattle, Wash. Machine for winding ribbon. No. 1,354,369; Sept. 28; v. 278; p. 663.
Anderson, Nils O., and C. Scheich, Chicago, Ill. Antiseptic-powder-dispensing pencil. No. 1,352,932; Sept. 14; v. 278; p. 273.
Andersson, Victor O. J., Malmö, Sweden. Calculating-machine. No. 1,353,504; Sept. 21; v. 278, p. 445.
André, Paul, Le Val d'Ajol, France. Shearing and mowing machine. No. 1,351,939; Sept. 7; v. 278; p. 45.
Andres, Frank E. (See Jefferson, Daniel H., assignor.)
Andresen, Halvor, assignor to The Vacuum Muffler Corporation, New York, N. Y. Muffler. No. 1,351,985; Sept. 7; v. 278; p. 54.
Andrew, Frederick W., assignor to Eisemann Magneto Corporation, Brooklyn, N. Y. Coupling for impulse-starters. No. 1,352,864; Sept. 14; v. 278; p. 260.
Andrews, Cyrus N., Yucaipa, Calif. Apparatus for producing talking-motion-picture entertainments. No. 1,354,272; Sept. 28; v. 278; p. 644.
Andrews, Morrill V., and S. W. Holman, Marmarth, N. D. Water-motor pump. No. 1,352,237; Sept. 7; v. 278; p. 101.
Anechiarico, Luigi, Asbury Park, N. J. Stepladder. No. 1,354,370; Sept. 28; v. 278; p. 663.
Anfinson, Anton, Wakonda, S. D. Roadway. No. 1,353,446; Sept. 21; v. 278; p. 433.
Angier, Edward H., Framingham, Mass. Composite sheet. No. 1,352,774; Sept. 14; v. 278; p. 242.
Angier, Edward H., Framingham, Mass. Wrapping tires and the like and machine for practising the same. No. 1,354,371; Sept. 28; v. 278; p. 663.
Ansonia Manufacturing Company. (See Malby, Seth G., assignor.)
Anthony, David W., assignor to Anthony Liquid Vending Machine Co., Minneapolis, Minn. Liquid-vending machine. No. 1,352,645; Sept. 14; v. 278; p. 216.
Anthony Liquid Vending Machine Co. (See Anthony, David W., assignor.)
App, Casper J., Lynchburg, Va. Writing implement. No. 1,352,340; Sept. 7; v. 278; p. 120.
Appelberry, Daniel L., Hammond, Ind. Beef-splitting machine. No. 1,353,013; Sept. 14; v. 278; p. 289.
Arbon, Paul, Tulsa, Okla. Casing-head. No. 1,352,423; Sept. 14; v. 278; p. 171.
Arc-O Manufacturing Co., The. (See Olson, William O., assignor.)
Argovia, A.-G. (See Wildi, Carl, assignor.)
Armes Automatiques Lewis. (See Hulse, Frederick W., assignor.)
Armstrong, Marshall, Hagersville, Ontario, Canada. Brake-beam guard. No. 1,354,372; Sept. 28; v. 278; p. 664.
Arnold, Clarence F., Philadelphia, Pa. Walking doll. No. 1,352,933; Sept. 14; v. 278; p. 273.
Arnold, Ernest A., and B. E. Rothig, Eau Claire, Wis. Automobile-bumper. No. 1,354,273; Sept. 28; v. 278; p. 644.
Arntzen, Anders, and K. Trosdahl, assignors to Elektriak Varmeteknik A/S., Sarpsborg, Norway. Electric-heating body. No. 1,352,934; Sept. 14; v. 278; p. 274.
Arrighi, Pietro, San Francisco, Calif. Rotary engine. No. 1,353,374; Sept. 21; v. 278; p. 419.
Art Woodwork Company. (See Czumpft, John, assignor.)
Arthur, Ernest L., Pembroke, Va. Automobile-tire-chain holder. No. 1,352,238; Sept. 7; v. 278; p. 101.
Arthur, Kemp B., Norfolk, Va. Oyster-shucking knife. No. 1,352,108; Sept. 7; v. 278; p. 76.
Aschauer, Charles J., Decatur, Ill. Building construction. No. 1,353,702; Sept. 21; v. 278; p. 485.
Ash, Charles S., Geneva, N. Y. Truing-stand. No. 1,353,505; Sept. 21; v. 278; p. 445.
Ashby, Earnest J., Henderson, Ky. Trowel. No. 1,353,014; Sept. 14; v. 278; p. 289.
Ashby, Howard E. (See Ashby, Thomas E. and H. E.)
Ashby, Thomas E. and H. E., Wayne, Mich. Sled. No. 1,353,817; Sept. 28; v. 278; p. 551.
Ashenfelter, Loyd E., Atlanta, Ga. Tobacco-biter. No. 1,353,944; Sept. 28; v. 278; p. 576.
Ashenhurst, Harold S., assignor of four-fifths to J. J. Reynolds, Chicago, Ill. Manufacturing an insulating material. No. 1,353,621; Sept. 21; v. 278; p. 469.
Ashenhurst, Harold S., assignor of four-fifths to J. J. Reynolds, Chicago, Ill. Reinforced insulating material. No. 1,353,622; Sept. 21; v. 278; p. 469.
Ashtabula Bow Socket Company, The. (See Lewis, Frederick K., assignor.)
Ashworth, Charles B., Detroit, Mich. Internal-combustion engine. No. 1,354,274; Sept. 28; v. 278; p. 644.
Atherton, Stanley E., Cleveland, Ohio. Safety-guard for use on trucks and automobiles. No. 1,354,444; Sept. 28; v. 278; p. 678.
Atlanta Utility Works. (See Moore, James W., assignor.)
Atlas Powder Company. (See Grant, H. L., and Haddow, assignors.)
Atwell, Robert L., Atlanta, Ga. Combination camera and film case. No. 1,354,011; Sept. 28; v. 278; p. 590.
Atwood, Seth B., Rockford, Ill. Door-bumper. No. 1,353,506; Sept. 21, v. 278; p. 445.
Aubert, Albert M., Billancourt, France. Furnace. No. 1,353,818; Sept. 28; v. 278; p. 551.
Auerbach, Julia H., Los Angeles, Calif. Corset-fastening. No. 1,351,728; Sept. 7; v. 278; p. 3.
Aufderheide, Edward W., Chicago, Ill. Beading. No. 1,353,885; Sept. 28; v. 278; p. 564.
Augestad, Arent. Marka Brandbu Station, Hadeland, Norway. Inlay-sole for the prevention of the development of galls. No. 1,352,865; Sept. 14; v. 278; p. 260.
Ault, Eugene B., Calallen, Tex. Bee-cage. No. 1,353,137; Sept. 21; v. 278; p. 373.
Austin, Allen C., Syracuse, N. Y. Pressing-machine. No. 1,354,232; Sept. 28; v. 278; p. 635.
Austral Window Co. (See Kellogg, Waldo S., assignor.)
Auto & Motor Truck Axle Company, The. (See Young, Clifford H.)
Auto-Ordnance Corporation. (See Payne, Oscar V., assignor.)
Auto Pneumatic Action Co. (See Heller, Henry R., assignor.)
Auto Supply Manufacturing Company, The. (See Tryon, Edward E., assignor.)
Automatic Electric Company. (See Jacobsen, Emil, assignor.)
Automatic Electric Company. (See Powell, Winfred T., assignor.)
Automatic Electric Company. (See Schwartz, Michael, assignor.)
Automatic Electric Company. (See Yanochowski, G. A., and Hershey, assignors.)
Automotive Development Co. (See Huggins, M. J., and Dressler, assignors.)
Autopiano Company. (See La Joie, Herbert J., assignor.)
Averill, Rex G., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-tender. No. 1,353,507; Sept. 21; v. 278; p. 445.
Averill, Rex G., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-tender. No. 1,353,508; Sept. 21; v. 278; p. 445.
Averill, Rex G., and C. H. Tomlinson; said Averill assignor to The Ohio Brass Company, Mansfield, Ohio. Multiple electric air and car coupling. No. 1,353,557; Sept. 21; v. 278; p. 455.
Avillar, Manuel D., New York, N. Y. Machine for slotting piston-rings and similar objects. No. 1,353,558; Sept. 21; v. 278; p. 456.
Ayars, Charles H., Salem, N. J. Can-distributing device. No. 1,352,718; Sept. 14; v. 278; p. 230.
Ayling, Robert W., West New York, N. J. Butting-tool; No. 1,352,341; Sept. 7; v. 278; p. 120.
Babcock, Fay L., Largo, Fla. Toy. No. 1,353,703; Sept. 21; v. 278; p. 486.

Bachman, Siegmund, Chicago, Ill. Box. No. 1,354,012; Sept. 28; v. 278; p. 590.
Bachman, William F., Chicago, Ill. Balance. No. 1,354,275; Sept. 28; v. 278; p. 644.
Bachmann, Albert W., Laporte, Ind. Union-ferrule. No. 1,352,342; Sept. 7; v. 278; p. 120.
Bachrach, Leopold, New York, N. Y. Card-index directory. No. 1,351,730; Sept. 7; v. 278; p. 3.
Bäckdahl, Carl G. A., assignor to United States Tire Company, Stockholm, Sweden. Expansible core for india-rubber articles. No. 1,354,459; Sept. 28; v. 278; p. 681.
Badger Manufacturing Corporation. (See Isrig, Walter V., assignor.)
Baekeland, Leo H., assignor to General Bakelite Company, New York, N. Y. Potentially reactive composition and making same. No. 1,354,154; Sept. 28; v. 278; p. 620.
Bagley, William W., Chicago, Ill., assignor to J. Rousso, Los Angeles, Calif. Towel-cabinet. No. 1,353,704; Sept. 21; v. 278; p. 486.
Bagnell, Christopher C., assignor to M. H. Bagnell, Duluth, Minn. Pulling-drum. No. 1,351,887; Sept. 7; v. 278; p. 35.
Bagnell, Mary H. (See Bagnell, Christopher C., assignor.)
Bahde, Carl A. H., Milwaukee, Wis. Fish-clamp. No. 1,353,981; Sept. 28; v. 278; p. 584.
Bailey, James, assignor to Corning Glass Works, Corning, N. Y. Machine for finishing blown-glass articles. No. 1,352,396; Sept. 7; v. 278; p. 130.
Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Horizontal shell-rolling mill. No. 1,353,982; Sept. 28; v. 278; p. 584.
Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Phase-distribution system. No. 1,353,983; Sept. 28; v. 278; p. 584.
Bair, George I., Detroit, Mich. Window for automobile-curtains. No. 1,353,306; Sept. 21; v. 278; p. 406.
Baird, Edward P., Evanston, assignor to Chicago Cabinet Lock Company, Chicago, Ill. Lock. No. 1,352,239; Sept. 7; v. 278; p. 101.
Baisch, Robert, and O. Kreutz, Detroit, Mich. Toy gun. No. 1,353,138; Sept. 21; v. 278; p. 373.
Baker, Alfred Z., Newark, N. J. Toy aeroplane. No. 1,352,343; Sept. 7; v. 278; p. 121.
Baker, Alva, Plattsburg, N. Y. Sash-lock. No. 1,354,013; Sept. 28; v. 278; p. 590.
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Automatic fluid-controller. No. 1,354,373; Sept. 28; v. 278; p. 664.
Baker Steam Motor Car and Manufacturing Co., The (See Baker, Hartley O., assignor.)
Baker-Vawter Company. (See Manny, Fred L., assignor.)
Balduf, Bruno E. (See Kochendorfer, F. S., and Balduf.)
Baldwin, Abram T., deceased; C. P. Baldwin, executrix, Detroit, Mich. Draft-gage. No. 1,352,719; Sept. 14; v. 278; p. 231.
Baldwin, Alfred S., Syracuse, N. Y. Vehicle-wheel. No. 1,352,168; Sept. 7; v. 278; p. 87.
Baldwin, Catherine P., executrix. (See Baldwin, Abram T.)
Baldwin, Frederick M., Los Angeles, Calif. Oilcloth-cutting machine. No. 1,352,240; Sept. 7; v. 278; p. 101.
Baldwin, Frederick M., Bishop, Calif. Oilcloth display-rack and cutting-table. No. 1,352,397; Sept. 7; v. 278; p. 130.
Baldwin, J. P., et al. (See Stephens, James W. T., assignor.)
Baldwin, Murray, Brookline, Mass. Elbow-protector. No. 1,351,731; Sept. 7; v. 278; p. 3.
Balfour, Eva L. D. B. and J. W. B., London, England. Spike. No. 1,352,573; Sept. 14; v. 278; p. 201.
Balfour, John W. B. (See Balfour, Eva L. D. B. and J. W. B.)
Ball, Albert, Claremont, N. H., assignor by mesne assignments to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,352,169; Sept. 7; v. 278; p. 88.
Ballou, Marcus H., Pittsburgh, Pa. Tape attachment. (Reissue.) No. 14,947; Sept. 7; v. 278; p. 135.
Baltsley, Oren F., Hagerstown, assignor to The Liberty Tool Company, Baltimore, Md. Apparatus for drilling, reaming, and countersinking. No. 1,352,646; Sept. 14; v. 278; p. 216.
Bambrick, Charles L., Brooks, Alberta, Canada. Film-holder. No. 1,353,705; Sept. 21; v. 278; p. 486.
Bancel, Paul A., Nutley, assignor to The Ingersoll-Rand Company, Jersey City, N. J. Regenerative power installation. No. 1,353,706; Sept. 21; v. 278; p. 486.
Bancel, Paul A., Nutley, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. No. 1,354,276; Sept. 28; v. 278; p. 645.
Barber, Alfred H. (See Gasser, J., and Barber.)
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-delivery mechanism for printing-presses. No. 1,353,509; Sept. 21; v. 278; p. 446.
Barbers Electric Specialty Company, The. (See Coffman, Samuel M., assignor.)
Barclay, Frank R., Youngstown, Ohio. Seam and edge binder for floor-coverings. No. 1,354,155; Sept. 28; v. 278; p. 620.
Barclay, Hjalmar V., New York, N. Y. Hot appliance. No. 1,351,986; Sept. 7; v. 278; p. 54.
Barker, Charles J., Columbus, Ohio. Window-screen. No. 1,351,733; Sept. 7; v. 278; p. 4.
Barker, F. E., Boston, and W. R. Soper, Lynn, Mass. Measuring-machine. No. 1,351,732; Sept. 7; v. 278; p. 3.
Barker, George P., and O. E. Underwood, Indianapolis, Ind. Safety apparatus for elevators. No. 1,351,827; Sept. 7; v. 278; p. 22.
Barker-Sweet Manufacturing Company, The. (See Sweet, Parker H., assignor.)
Barkis, Henry B., Sr., Lodi, Calif. Nut-bleaching apparatus. No. 1,353,209; Sept. 21; v. 278; p. 387.
Barkschat, Henry. (See Blinn, Edmund B., assignor.)
Barlow, William L., Clear Lake, Iowa. Device for catching and holding hogs. No. 1,353,376; Sept. 21; v. 278; p. 419.
Barnard, Dudley J., Barking, England. Grab. No. 1,354,651. Sept. 21; v. 278; p. 475.
Barnard, Joseph, Hackney, London, assignor to H. E. and G. G. Bloch, Birmingham, England. Toy animal. No. 1,353,707; Sept. 21; v. 278; p. 486.
Barnes, George W., and D. C. Travis, assignors to Simmons Company, Kenosha, Wis. Spring construction. No. 1,352,574; Sept. 14; v. 278; p. 202.
Barnes, Philip E. (See Laughton, R. E., and Barnes.)
Barnett, John H., Tettenhall, England. Seat of motor-cars. No. 1,353,708; Sept. 21; v. 278; p. 487.
Barr, Edward B., Newton, Kans. Door-latch. No. 1,353,447; Sept. 21; v. 278; p. 433.
Barrett Company, The. (See Perry, Ray P., assignor.)
Barrett, Joseph C., Brooklyn, assignor to American Kron Scale Company, New York, N. Y. Weighing-scale. No. 1,352,935; Sept. 14; v. 278; p. 274.
Barrett, Thomas F., South Pottstown, Pa. Power transmission and storage apparatus. No. 1,352,936; Sept. 14; v. 278; p. 274.
Barrington, Fred G., Venice, Calif. Fire-escape. No. 1,351,734; Sept. 7; v. 278; p. 4.
Barro, Anthony F., assignor of one-half to A. A. Dibblee, New York, N. Y. Razor-blade holder. No. 1,351,987; Sept. 7; v. 278; p. 54.
Bartholomew, Wallace J. (See Dann, Frederick J., assignor.)
Bartuzel, Jan, Youngstown, Ohio. Newspaper-holder. No. 1,352,398; Sept. 7; v. 278; p. 131.
Baruch Electric Controller Corporation. (See Baruch, Sidney N., assignor.)
Baruch, Sydney N., assignor to Baruch Electric Controller Corporation, San Francisco, Calif. Electric-circuit protector. No. 1,352,044; Sept. 7; v. 278; p. 64.
Bassett, Richard W. C., and A. E. Jerram, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Heel-plate-scouring machine. No. 1,353,821; Sept. 28; v. 278; p. 551.
Bassick Company, The. (See Harrison, George, Jr., assignor.)
Bastian, Arthur J., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molding process and apparatus. No. 1,354,156; Sept. 28; v. 278; p. 620.
Bastian Bros. Company. (See Mitchel, Charles F., assignor.)
Batcheider, Frank R. (See Jennings, Victor H., assignor.)
Batchelor, Horton, Boston, Mass. Generating gas. No. 1,352,241; Sept. 7; v. 278; p. 102.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Making and filling bags. No. 1,353,210; Sept. 21; v. 278; p. 387.
Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)
Bauer, John, Detroit, Mich. Storm-shield. No. 1,354,374; Sept. 28; v. 278; p. 664.
Bauer, Martha V., Washington, D. C. Token. No. 1,353,709; Sept. 21; v. 278; p. 487.
Baum, Willis M. (See Gilman, F. L., and Baum.)
Baumann, Karl, Urmston, assignor to The British Westinghouse Electric & Manufacturing Company, Limited, London, England. Blade or vane for steam-turbines. No. 1,353,710; Sept. 21, v. 278; p. 487.
Baumgartl, Leroy, Chicago, Ill. Manufacturing slabs or the like of cement or like material. No. 1,353,510; Sept. 21; v. 278; p. 446.
Baumgartl, Leroy, Chicago, Ill. Demountable wheel. No. 1,353,511; Sept. 21; v. 278; p. 446.
Baumgartl, Leroy, Chicago, Ill. Manufacturing slabs or the like of cement or like material. No. 1,353,512; Sept. 21; v. 278; p. 446.
Bausch, Albert. (See Maguire, W., and Bausch.)
Bausch & Lomb Optical Company. (See Patterson, William L., assignor.)
Baxter, Arthur G., Wabana, Belle Isle, Newfoundland. Poison-bottle indicator. No. 1,352,344; Sept. 7; v. 278; p. 121.
Baxter, Reginald, London, England. Means for applying medicaments to the body. No. 1,354,014; Sept. 28; v. 278; p. 590.

Baxter, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-leveling machine. No. 1,351,735; Sept. 7; v. 278; p. 4.

Bayer, Erik C., Copenhagen, Denmark. Preparing pumice-stone for use in concrete. No. 1,354,233; Sept. 28; v. 278; p. 636.

Baymiller, Joel F., Buhl, Idaho. Revolving housekeeping-cabinet. No. 1,352,496; Sept. 14; v. 278; p. 186.

Beach, Chester H., assignor to Frederick J. Oslus, Racine, Wis. Support for sewing-machine motors. No. 1,353,211; Sept. 21; v. 278; p. 898.

Beanblossom, Albert C., Des Moines, Iowa. Power attachment for automobiles. No. 1,352,497; Sept. 14; v. 278; p. 186.

Bear, Claude A., assignor of two-ninths to G. P. Fox, Albany, two-ninths to A. McGary, New York, N. Y., and two-ninths to G. R. Berger, Chicago, Ill. Door-fastener. No. 1,351,736; Sept. 7; v. 278; p. 4.

Beard, Roy, Bowling Green, Ky. Drilling-machine. No. 1,354,015; Sept. 28; v. 278; p. 591.

Bears, Daniel S., assignor to Reliance Manufacturing Co., Providence, R. I. Belt-buckle. No. 1,352,937; Sept. 14; v. 278; p. 274.

Beattie, Charles W., Parsonsfield, Me., assignor of one-half to J. C. Nicholson, Peabody, Mass. Discharge-valve for flush-tanks. No. 1,353,559; Sept. 21; v. 278; p. 456.

Becker, Irvine N., Kaufman, Tex. Block or follower for baling-presses. No. 1,352,845; Sept. 7; v. 278; p. 121.

Beckwith, Walter C., Fostoria, Ohio. Device for raising sunken vessels. No. 1,353,623; Sept. 21; v. 278; p. 469.

Begas, Carl L., Brooklyn, N. Y. Electrical testing device. No. 1,351,988; Sept. 7; v. 278; p. 55.

Behr, Ernst, Saratoga Springs, N. Y. Leaf-turning device. No. 1,353,015; Sept. 14; v. 278; p. 289.

Behrman, Marcus B., Tomkinsville, N. Y., assignor to American Safety Razor Company, Brooklyn, N. Y. Lather-brush. No. 1,353,984; Sept. 28; v. 278; p. 584.

Beidler, George C., Rochester, N. Y. Roll-film-developing apparatus. No. 1,352,109; Sept. 7; v. 278; p. 76.

Bell, Hugo, Lawrence, Mass. Antiskid device for motor-vehicles. No. 1,353,560; Sept. 21; v. 278; p. 456.

Bell, George A., assignor of one-half to L. C. Hammond, Silver Creek, N. Y. Spark-plug. No. 1,352,775; Sept. 14; v. 278; p. 242.

Bell, George W., Detroit, Mich. Pneumatic antivibration device for automobiles. No. 1,353,886; Sept. 28; v. 278; p. 565.

Bell, Henry W. (See Currie, J., and Bell.)

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Inc., New York, N. Y. Telegraph system. No. 1,351,989; Sept. 7; v. 278; p. 55.

Bellm, Henry E. (See Colver, A. S., and Bellm.)

Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,354,157; Sept. 28; v. 278; p. 620.

Benecke, Louis A., et al. (See Flatau, Louis S., assignor.)

Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)

Benjamin, Emanuel V., New Orleans, La. Connecting means for bale-bands. No. 1,351,991; Sept. 7; v. 278; p. 55.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Separable attachment device. No. 1,352,776; Sept. 14; v. 278; p. 242.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Illuminating device. No. 1,352,777; Sept. 14; v. 278; p. 242.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Combined connecting-block and fuse-block. No. 1,352,778; Sept. 14; v. 278; p. 243.

Bennett, Ernest M., Prahran, Melbourne, Victoria, Australia. Reflecting lamp shade and globe. No. 1,354,158; Sept. 28; v. 278; p. 621.

Bennett, John B. (See Eubanks, T. G., and Bennett.)

Bennett, Ralph R., San Jose, Calif. Weighing-machine. No. 1,353,139; Sept. 21; v. 278; p. 373.

Benoit, Ida V., Brooklyn, N. Y. Pin-attached separable fastener. No. 1,354,159; Sept. 28; v. 278; p. 621.

Benson, Matthew P., Troy, and M. M. Wiener, New York, N. Y. Brush-hanger and pad-remover. No. 1,352,346; Sept. 7; v. 278; p. 121.

Benton, George T., assignor of one-half to O. A. McDill, Willow Springs, Mo. Double clamp. No. 1,352,647; Sept. 14; v. 278; p. 216.

Benz, Frank J., San Jose, Calif. Lace-tip. No. 1,353,140; Sept. 21; v. 278; p. 374.

Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company. Wireless receiving apparatus. No. 1,352,242; Sept. 7; v. 278; p. 102.

Berg, Louis L., Bellingham, Wash. Shoemaker's jack. No. 1,353,985; Sept. 28; v. 278; p. 585.

Bergendorf, Gottfrid, assignor to Rock Island Plow Company, Rock Island, Ill. Support for motors. No. 1,353,986; Sept. 28; v. 278; p. 585.

Berger, Charles F., Pelham, N. Y. Chalk-trough. No. 1,352,720; Sept. 14; v. 278; p. 231.

Berger, Charles F., Pelham, N. Y. Combination chalk-trough. No. 1,352,721; Sept. 14; v. 278; p. 231.

Berger, Samuel, Newark, N. J. Sink scoop or shovel. No. 1,353,307; Sept. 21; v. 278; p. 406.

Bergeron, Lindor, Macamic, Quebec, Canada. Sleigh. No. 1,353,141; Sept. 21; v. 278; p. 374.

Bergey, Aaron E., Basetta township, Trumbull county, Ohio. Mechanism for driving tools. No. 1,352,045; Sept. 7; v. 278; p. 64.

Bergman, Sven E., Nahant, Mass., assignor to General Electric Company. Electric welding and reactor. No. 1,353,711; Sept. 21. v. 278; p. 487.

Bergor, George R., et al. (See Bear, Claude A., assignor.)

Bergstrom-Brewster Motor Company. (See Bergstrom, Cuthbert C., assignor.

Bergstrom, Cuthbert C., assignor to The Bergstrom-Brewster Motor Company, Denver, Colo. Stake-holder. No. 1,353,624; Sept. 21; v. 278; p. 470.

Bergve, Einar, Christiania, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Manufacture of reducing alkaline melts. No. 1,354,451; Sept. 28; v. 278; p. 679.

Bernard, Thomas E., Lakeview, Oreg. Wire-screen holding and dispensing receptacle. No. 1,353,016; Sept. 14; v. 278; p. 290.

Bernecker, George E., assignor to Standard Accessory Corporation, Milwaukee, Wis. Phonograph-lighting attachment. No. 1,352,779; Sept. 14; v. 278; p. 243.

Bernier, Henry N., St. Eugene, De Guigues, Quebec, assignor of one-half to J. De Froy, Timmins, Ontario, Canada. Funnel. No. 1,353,712; Sept. 21; v. 278; p. 487.

Berry, William O., assignor of one-half to W. F. Wallis, Caro, Mich. Coupling device. No. 1,353,713; Sept. 21; v. 278; p. 488.

Berthon, Paul. (See Radisson, A., and Berthon.)

Bethlehem Steel Company. (See Lachman, Maurice, assignor.)

Beudet, Maurice, Lyon, assignor to Societe Chimique des Usines du Rhone, Anciennement Gilliard, P. Monnet et Cartier, Paris, France. Manufacture of ethylidene diacetate. No. 1,351,990; Sept. 7; v. 278; p. 55.

Beyer, Herman E., New York, N. Y., and W. G. Hall, Honolulu, Hawaii, assignors to Ingersoll-Rand Company, Jersey City, N. J. Rectifier and condenser. No. 1,352,648; Sept. 14; v. 278; p. 216.

Bidwell, George L., Riegelsville, Pa. Hard-stock whipper. No. 1,352,866; Sept. 14; v. 278; p. 260.

Biggs-Watterson Co., The. (See Wertman, Milton A., assignor.)

Bijur Motor Appliance Company. (See Hirsch, Morris, assignor.)

Bilknap, Frank L. (See James, Willard C., assignor.)

Bingaman, Charles A., Reading, Pa. Crane. No. 1,352,575; Sept. 14; v. 278; p. 202.

Bingley, John W., Watertown, N. Y. Engineer's brake-valve. No. 1,353,375; Sept. 21; v. 278; p. 419.

Bird, Milton W., Wenatchee, Wash. Fruit-grading machine. No. 1,352,780; Sept. 14; v. 278; p. 243.

Birkenfeld, Benjamin, New York, N. Y. Automobile signaling device. No. 1,352,781; Sept. 14; v. 278; p. 243.

Birnbaum, Charles. (See Eliasoff, A. L., and Birnbaum.)

Bisbing, Charles F. (See Weinberg, I. H., and Bisbing.)

Bishop, Ashley L., Bristol, assignor to The Steel Products Company, Hartford, Conn. Fastening device. No. 1,352,243; Sept. 7; v. 278; p. 102.

Black, Frederick H., Pittsburgh, Pa. Message-interpreting device. No. 1,352,046; Sept. 7; v. 278; p. 65.

Black, George H., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of welt-shoes. No. 1,353,308; Sept. 21; v. 278; p. 406.

Blaetz, Harry M., Philadelphia, Pa., assignor to Royal Electrotype Company. Holder for electroplating. No. 1,354,234; Sept. 28; v. 278; p. 636.

Blair, Robert S., South Orange, N. J. Firearm. No. 1,352,938; Sept. 14; v. 278; p. 274.

Blair, Shiras A., Indianapolis, Ind. Washing system. No. 1,352,867; Sept. 14; v. 278; p. 261.

Blake, David C., Durham, N. C. Screen-door and window

Blake, George H., Alameda, Calif. Device for supplying construction. No. 1,351,940; Sept. 7; v. 278; p. 45.
water-moisture to intake of internal-combustion engines. No. 1,352,649; Sept. 14; v. 278; p. 217.

Blake & Johnson Company, The. (See Duston, Ernest W., assignor.)

Blanchard, Casper E., Chicago, Ill. Bottle-closure. No. 1,352,650; Sept. 14; v. 278; p. 217.

Blatz, Frederick J., Wilmington, Del., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Dampening leather. No. 1,352,244; Sept. 7; v. 278; p. 102.

Blaw-Knox Company. (See Knox, Luther L., assignor.)

Blewett, Arthur R., Portland, Oreg., assignor to Blewett Tractor Company, Tacoma, Wash. Tractor-machine. No. 1,353,945; Sept. 28; v. 278; p. 576.

Blewett Tractor Company. (See Blewett, Arthur R., assignor.)

Blinn, Edmund B., Pasadena, assignor of one-third to H. Barkschat, Los Angeles, Calif. Concrete pole. No. 1,353,309; Sept. 21; v. 278; p. 406.

Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Car-lighting system. No. 1,351,828; Sept. 7; v. 278; p. 28.

Bloch, George G., et al. (See Barnard, Joseph, assignor.)

Bloch, Harris E., et al. (See Barnard, Joseph, assignor.)

Blochmon, Berget H., assignor to Wilson & Co., Inc., Chicago, Ill. Refrigerator. No. 1,353,867; Sept. 28; v. 278; p. 565.

Blom, Axel V., Berne, Switzerland. Producing asymmetric carbamids. No. 1,351,888; Sept. 7; v. 278; p. 55.

Blomstrom, Carl H., Detroit, Mich. Steering mechanism. No. 1,352,868; Sept. 14; v. 278; p. 261.

Bloom, David, Berkeley, Calif. Receptacle-closure. No. 1,353,017; Sept. 14; v. 278; p. 290.

Blount, William H. (See Sleeper, F. H., and Blount.)

Blystad, Karl A., Kongsvinger, Norway. Wheel for power-driven winter vehicles. No. 1,351,992; Sept. 7; v. 278; p. 55.

Bobo, Walton E., Hattiesburg, Miss., assignor to The Magnolia Company, Chicago, Ill. Curing sweet potatoes or yams. No. 1,353,561; Sept. 21; v. 278; p. 456.

Bock, William A., Chicago, Ill. Car-mover. No. 1,354,277; Sept. 28; v. 278; p. 645.

Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulator. No. 1,354,160; Sept. 28; v. 278; p. 621.

Body, John J. (See Bowman, C. L., and Body.)

Boeck, Charles H., assignor to White Frost Refrigerator Company, Jackson, Mich. Water-cooler for refrigerators. No. 1,353,018; Sept. 14; v. 278; p. 290.

Boerner, Emil G., and E. H. Ropes, Washington, D. C. Grain-sampler. No. 1,354,016; Sept. 28; v. 278; p. 591.

Boesch, Harry L. (See Chase, A. H., and Boesch.)

Bogart, John C., assignor of one-half to P. R. Dismore, Bay City, Mich. Differential gearing. No. 1,351,737; Sept. 7; v. 278; p. 5.

Bohen, Michael M., Casper, Wyo. Shoveling-machine. No. 1,353,142; Sept. 21; v. 278; p. 374.

Böhling, Rudolf H., assignor to the firm Bohrbogenwerk G. m. b. H., Hamburg, Germany. Method and device for manufacturing pipe-bends, serpentines, and the like. No. 1,353,714; Sept. 21; v. 278; p. 488.

Bohre, Anton C., deceased; K. C. Bohre, executrix, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Concentration of sulfuric acid. No. 1,353,488; Sept. 21; v. 278; p. 438.

Bohre, Katharina C., executrix. (See Bohre, Anton C.)

Boiler, Edward V., West Side, Iowa. Aeroplane. No. 1,353,212; Sept. 21; v. 278; p. 888.

Bois, Nathaniel, San Francisco, Calif. Stair structure. No. 1,353,377; Sept. 21; v. 278; p. 420.

Boje, Rudolf W., Jr., Buffalo, N. Y. Tongue-ball. No. 1,352,947; Sept. 7; v. 278; p. 65.

Boker, Vitus A., Minneapolis, assignor to The E. G. Staude Manufacturing Co., St. Paul, Minn. Radiator-fan-supporting means. No. 1,352,869; Sept. 14; v. 278; p. 261.

Bolls, William W., Washington, D. C. Pulp-canal file. No. 1,353,019; Sept. 14; v. 278; p. 290.

Bonnet, Gottlieb, Lincoln Valley, N. D. Insect-trap. No. 1,353,310; Sept. 21; v. 278; p. 406.

Bonom, Alfred, Paterson, N. J. Labyrinth packing. No. 1,354,235; Sept. 28; v. 278; p. 636.

Booker, William B., Freeport, Tex. Oil-burner. No. 1,352,347; Sept. 7; v. 278; p. 121.

Booth, William N., Detroit, Mich. Demountable-rim support for motor-vehicles. No. 1,354,161; Sept. 28; v. 278; p. 621.

Booth, William T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter. No. 1,352,939; Sept. 14; v. 278; p. 274.

Borkey, Stephen F., Flint, Mich. Forming axles. No. 1,353,987; Sept. 28; v. 278; p. 585.

Borst, William E., assignor of one-half to C. C. Gilleo, Grand Rapids, Mich. Mortise-mold. No. 1,353,888; Sept. 28; v. 278; p. 565.

Bosley, Allen E., St. Louis, Mo. Front-axle brace. No. 1,354,162; Sept. 28; v. 278; p. 621.

Bossart, Shirley H., Birmingham, Ala. Air-pump. No. 1,352,348; Sept. 7; v. 278; p. 122.

Boston Rubber Shoe Company. (See Lawrence, George L., Jr., assignor.)

Boston Scale and Machine Co. (See Davis, John V., assignor.)

Boswell, Fletcher O., assignor to F. O. B. Manufacturing Company, Philadelphia, Pa. Automobile-lock. No. 1,353,143; Sept. 21; v. 278; p. 374.

Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,352,651; Sept. 14; v. 278; p. 217.

Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,353,513; Sept. 21; v. 278; p. 446.

Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,353,514; Sept. 21; v. 278; p. 447.

Bour, Lucien P., Paris, France. Safety-fastening for hair-slides. No. 1,354,236; Sept. 28; v. 278; p. 636.

Bouvier, Jean B. (See Frappart, H., and Bouvier.)

Boutelle, William H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,353,311; Sept. 21; v. 278; p. 407.

Bovard, William H. (See Wolfe, P. L., and Bovard.)

Bowden, Junius A., Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, New York, N. Y. Pressure-gage. No. 1,354,017; Sept. 28; v. 278; p. 591.

Bowen, David R., and C. F. Schnuck, assignors to Farrel Foundry & Machine Company, Ansonia, Conn. Machine for treating rubber and similar materials. No. 1,354,452; Sept. 28; v. 278; p. 680.

Bowen, William S., New York, N. Y. Propeller-testing device. No. 1,351,738; Sept. 7; v. 278; p. 5.

Bowers, Charles L. (See Seaver, H. E., and Bowers.)

Bowers, Walter C., Dayton, Ohio. Making ring-mountings. No. 1,352,870; Sept. 14; v. 278; p. 261.

Bowker, William H., Manchester, England. Wooden lappet. No. 1,351,829; Sept. 7; v. 278; p. 23.

Bowles, Charles F., Dallas, Tex. Heater. No. 1,353,312; Sept. 21; v. 278; p. 407.

Bowman, Charles L., Canton, Ohio, and J. J. Body, Dante, Va., assignors to The American Mine Door Company, Canton, Ohio. Automatic mine-door. No. 1,353,715; Sept. 21; v. 278; p. 488.

Bowman, Clyde. (See St. John, G. E., and Bowman.)

Boyce, John A., Chicago, Ill. Printing and folding machine. No. 1,353,799; Sept. 21; v. 278; p. 504.

Boyd, George W., Rector, Ark. Pump-jack. No. 1,354,237; Sept. 28; v. 278; p. 636.

Boyd, Roger J., assignor, by mesne assignments, to Carson Pirie Scott & Co., Chicago, Ill. Shipping-case. No. 1,351,739; Sept. 7; v. 278; p. 5.

Boyd, Roger J., assignor, by mesne assignments, to Carson Pirie Scott & Co., Chicago, Ill. Shipping-case. No. 1,351,740; Sept. 7; v. 278; p. 5.

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Dispensing device. No. 1,352,425; Sept. 14; v. 278; p. 172.

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-hanger. No. 1,352,652; Sept. 14; v. 278; p. 217.

Boye, James H., Manufacturing Company. (See Boye, James H., assignor.)

Boyer, Harry L., assignor to Joseph Stokes Rubber Company, Trenton, N. J. Making rubber storage-battery jars. No. 1,352,170; Sept. 7; v. 278; p. 88.

Boyer, Harry L., assignor to Jos. Stokes Rubber Company, Trenton, N. J. Making storage-battery jars. No. 1,352,418; Sept. 7; v. 278; p. 134

Bradford, Bruce B., Hot Springs, Mont. Pen and feed pusher. No. 1,352,496; Sept. 14; v. 278; p. 186.

Bradford, Eugene S., Detroit, Mich. Printing mechanism for cylindrical articles. No. 1,351,830; Sept. 7; v. 278; p. 23.

Bradfords Dyers' Association Limited. (See Whitehead, P. K., and Rothwell, assignors.)

Bradley, Charles S., New York, N. Y. Production of iron and steel. No. 1,353,716; Sept. 21; v. 278; p. 488.

Bradley, Joseph B., Miami, Fla. Window-screen catch. No. 1,352,171; Sept. 7; v. 278; p. 88.

Bräkenhielm, Carl A. B. R., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Ball-retainer for radial ball-bearings. No. 1,352,110; Sept. 7; v. 278; p. 77.

Braly, Norman B., Butte, Mont. Factoring device. No. 1,354,375; Sept. 28; v. 278; p. 664.

Branch, Charles J., Philadelphia, Pa. Concrete anchor or insert. No. 1,352,245; Sept. 7; v. 278; p. 102.

Brand, Johan W., The Hague, Netherlands. Apparatus for mounting or removing pneumatic tires. No. 1,353,020; Sept. 14; v. 278; p. 290.

Brandenburg, Albert F., assignor of one-half to H. E. Palmer, Dayton, Ohio. Pen-brush. No. 1,353,625; Sept. 21; v. 278; p. 470.

Brandon, Jarvies D., Lancaster, Ohio. Drill-retriever. No. 1,352,172; Sept. 7; v. 278; p. 88.

Brandon, Julian R., Jr., San Francisco, Calif. Condenser for radiators. No. 1,351,891; Sept. 7; v. 278; p. 36.

Brandstetter, Josef, assignor to Acme Engineering & Mfg. Co., Chicago, Ill. Speed-indicator. No. 1,354,278; Sept. 28; v. 278; p. 645.

Brandt, Henry F., Peoria, Ill. Vehicle-wheel. No. 1,354,163; Sept. 28; v. 278; p. 621.

Braun, Carl F., San Francisco, Calif. Heat-exchanger. No. 1,353,449; Sept. 21; v. 278; p. 433.

Brecht, Frank v., and H. W. Tohtz, assignors to Gus v. Brecht Butcher's Supply Company, St. Louis, Mo. Rester for hog-scraping machines. No. 1,352,576; Sept. 14; v. 278; p. 200.

Brecht, G. v., Butcher's Supply Company. (See Brecht, Frank v., and Tohtz, assignors.)

Bredsvold, Norine, et al. (See Bredsvold, Paul A., assignor.)

Bredsvold, Paul A., Chicago, Ill., assignor of five-twelfths to F. P. Thompson, two-twelfths to F. M. Fairfield, and five-twelfths to N. Bredsvold. Lighting-fixture. No. 1,352,111; Sept. 7; v. 278; p. 77.

Brenizer, Orson W., Philadelphia, Pa. Hair-curler. No. 1,352,871; Sept. 14; v. 278; p. 262.

Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Can-heading machine. No. 1,351,831; Sept. 7; v. 278; p. 23.

Brickey, Robert S., Aberdeen, S. D. Auxiliary throttle-controller. No. 1,351,832; Sept. 7; v. 278; p. 23.

Bridgham, Arthur L., assignor of one-half to C. H. Sherburne, Boston, Mass. Locomotive. No. 1,354,238; Sept. 28; v. 278; p. 637.

Brinnon, Burleigh B. (See Harbour, T. P., and Brinnon.)

British Westinghouse Electric & Manufacturing Company, The. (See Baumann, Karl, assignor.)

British Westinghouse Electric & Manufacturing Company, The. (See Scanes, Arthur E. L., assignor.)

Broadgate, William C., assignor to F. W. Harmon, New Haven, Conn. Making lanolin. No. 1,354,376; Sept. 28; v. 278; p. 665.

Broadwell, Harry M., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Inclosed-switch construction. No. 1,353,021; Sept. 14; v. 278; p. 291.

Broc, Victor H., Neuilly-sur-Seine, France. Electrical connector. No. 1,352,499; Sept. 14; v. 278; p. 187.

Brock, Addison W., assignor to H. Gamse & Bro., Baltimore, Md. Bronzing-machine. No. 1,354,018; Sept. 28; v. 278; p. 591.

Brock, Maynor D., Kansas City, Mo. Adjustable toy vehicle. No. 1,352,577; Sept. 14; v. 278; p. 202.

Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Motor-drive. No. 1,352,112; Sept. 7; v. 278; p. 77.

Bromfield, Henry A. M., Daylesford, Victoria, Australia. Weed and clod cutter. No. 1,353,626; Sept. 21; v. 278; p. 470.

Brooks, James. G., Rushville, Nebr. Hinge or hanger. No. 1,352,782; Sept. 14; v. 278; p. 244.

Brooks, Winfred M., West Orange, N. J. Shackle-seal. No. 1,354,164; Sept. 28; v. 278; p. 621.

Brooks, Winfred M., West Orange, N. J. Sealing means. No. 1,354,165; Sept. 28; v. 278; p. 622.

Brown, Alexander T., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y. Gear-grinding machine. No. 1,352,872; Sept. 14; v. 278; p. 262.

Brown & Bigelow. (See Kristofek, F. J., and Fischer, assignors.)

Brown & Bigelow. (See Welcker, Paul H., assignor.)

Brown, Fay C., Berkeley, Calif. Optiphone. No. 1,352,940; Sept. 14; v. 278; p. 274.

Brown, Herbert V., Cherry Tree borough, Pa. Mine-haul. No. 1,352,653; Sept. 14; v. 278; p. 218.

Brown, Kenneth W., Yonkers, N. Y. Golf score-card. No. 1,353,889; Sept. 28; v. 278; p. 565.

Brown-Lipe Gear Company. (See Brown, Alexander T., assignor.)

Brown-Lipe-Chapin Co. (See Ormsby, Donald D., assignor.)

Brown, Norman. Muenster, Tex. Banjo. No. 1,352,654; Sept. 14; v. 278; p. 218.

Brown, Vincent E., Plattsmouth, Nebr. Sickle. No. 1,353,450; Sept. 21; v. 278; p. 433.

Brown, Walter T. K., Branford, assignor to Winchester Repeating Arms Co., New Haven, Conn. Tubular ice-skate. No. 1,352,113; Sept. 7; v. 278; p. 77.

Brown, Walter W., Chico, Calif. Primer for engines. No. 1,353,144; Sept. 21; v. 278; p. 374.

Browne, Arthur W., Ithaca, N. Y. Dehydration. No. 1,354,279; Sept. 28; v. 278; p. 645.

Bruce, William M., Jr., Springfield, Ohio. Telegraphy. No. 1,352,873; Sept. 14; v. 278; p. 262.

Brush, Alanson P., Detroit, Mich. Internal-combustion engine of the V-type. No. 1,353,213; Sept. 21; v. 278; p. 388.

Brush, Alanson P., Detroit, Mich. Valve. No. 1,354,019; Sept. 28; v. 278; p. 592.

Bryant, Alfred A., Easley, S. C. Clevis adjustment for plows. No. 1,353,946; Sept. 28; v. 278; p. 576.

Bryant Electric Company, The. (See Thomas, George B., assignor.)

Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Transversely-split demountable rim. No. 1,353,088; Sept. 28; v. 278; p. 585.

Bryce, Harry W., Downers Grove, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,354,020; Sept. 28; v. 278; p. 592.

Bua, Frank A., Lodi, N. J. Illuminating attachment for music-holders. No. 1,352,349; Sept. 7; v. 278; p. 122.

Buchanan, Frederick F., and N. F. Slack, Machipongo, Va. Package-tie. No. 1,353,717; Sept. 21; v. 278; p. 488.

Buchanan, Guy H., Roselle, N. J., assignor to American Cyanamid Company, New York, N. Y. Producing hydrocyanic acid. No. 1,352,655; Sept. 14; v. 278; p. 218.

Bucher, David H., Louisville, Ky. Collapsible pail. No. 1,353,627; Sept. 21; v. 278; p. 470.

Buckham, George T. (See Dawson, A. T., and Buckham.)

Buecher, Jacob. (See Merkel, H., and Buecher.)

Bucker, William, Dewey, Okla. Pipe-clamp. No. 1,354,081; Sept. 28; v. 278; p. 606.

Buffalo Foundry & Machine Company. (See Yahn, Frederick C. M., assignor.)

Bullock, Percy W. (See Handley, George, assignor.)

Bumgardners, Benjamin T., *et al.* (See Traywick, Walter F., assignor.)

Bumgarner, Stephen O, Given, Ohio. Elevator for silos. No. 1,352,500; Sept. 14; v. 278; p. 187.

Bunnell, Harry C., Westport, N. Y. Railway-rail brace. No. 1,354,239; Sept. 28; v. 278; p. 637.

Buraky, John, Windsor, Ontario, Canada. Toilet-cabinet. No. 1,354,240; Sept. 28; v. 278; p. 637.

Burch, William H., St. Louis, Mo. Automobile-indicator. No. 1,352,874; Sept. 14; v. 278; p. 262.

Burchell, Alice, Mayfield, England. Child's combination-cot adaptable as play-pen, &c. No. 1,354,088; Sept. 28; v. 278; p. 607.

Buresch, William W., Baltimore, Md. Bottle-capping tool. No. 1,353,718; Sept. 21; v. 278; p. 489.

Buresch, William W., Baltimore, Md. Bottle-capping tool. No. 1,353,719; Sept. 21; v. 278; p. 489.

Burgess Battery Company. (See Maisel, Lorens, assignor.)

Burgess, Edward W., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Steering mechanism for traction-engines. No. 1,351,741; Sept. 7; v. 278; p. 5.

Burgess, Edward W., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Silo-packer. No. 1,354,280; Sept. 28; v. 278; p. 645.

Burkheiser, Adam C. (See King, B. W., and Burkheiser.)

Burns, Thomas J., Syracuse, N. Y. Window-shade. No. 1,352,350; Sept. 7; v. 278; p. 122.

Burns, Walter G., Fort Wayne, Ind. Driving mechanism for ore-concentrators. No. 1,353,451; Sept. 21; v. 278; p. 434.

Burridge, Francis O., executor. (See Burridge, Lee S.)

Burridge, Lee S., deceased, F. O. Burridge, executor, assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,351,993; Sept. 7, v. 278; p. 56.

Burroughs, Arthur S. (See Dutro, O. V., and Burroughs.)

Busch-Sulzer Bros.-Diesel Engine Company. (See Zhindon, Eugen, assignor.)

Busko, Joseph E., Pittsburgh, Pa., assignor to Safety First Supply Company. Ladder-foot. No. 1,354,166; Sept. 28; v. 278; p. 622.

Butera, Mike. (See Salia, T., and Butera.)

Butler, Charles H. (See Peirson, C. H., and Butler.)

Butters-Camp Mfg. Co., The. (See Camp, W. H., and Butters, assignors.)

Butters, Robert H. (See Camp, W. H., and Butters.)

Butterworth, Frank W., assignor to Western Brick Company, Danville, Ill. Brick. No. 1,353,515; Sept. 21; v. 278; p. 447.

Butterworth, Joseph A., assignor to Herbert Morris, Limited, Loughborough, England. Elevating-trucks. No. 1,352,426; Sept. 14; v. 278; p. 172.

By-Products Manufacturing Company. (See Lowe, L. P., and Ruff, assignors.)

Byers, James, Chicago, Ill. Gas-burner. No. 1,352,351; Sept. 7; v. 278; p. 122.

C-K Co., The. (See Conover, George W., assignor.)

Cabot, Godfrey L. (See Crommett, Charles F., and O. J., assignors.)

Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)

Cady, Elisha J. (See Wyzenbeek, A., and Cady.)

Cahill, Henry D., Boston, Mass. Electric-lamp body, reflector, and shade-holder. No. 1,353,562; Sept. 21; v. 278; p. 456.

Cahill, Henry D., Boston, Mass. Electric-cluster-lamp body and shade-holder. No. 1,353,563; Sept. 21; v. 278; p. 457.

Cahill, John, Norfolk, Va. Flexible curtain. No. 1,352,656; Sept. 14; v. 278; p. 218.

Caldwell, Noah L., Knoxville, Tenn. Tire-removing apparatus. No. 1,352,722; Sept. 14; v. 278; p. 231.

Calleson, Amos, Brooklyn, N. Y. Sealing appliance. No. 1,353,628; Sept. 21; v. 278; p. 470.

Callsen, Henry, New York, N. Y. Dental tool. No. 1,354,089; Sept. 28; v. 278; p. 607.

Calmer, Edward, St. Louis, Mo. Fire-kindler. No. 1,353,214; Sept. 21; v. 278; p. 388.

Calolaro, Angelo, Salt Lake City, Utah. Recording device for weighing-scales. No. 1,354,445; Sept. 28; v. 278; p. 678.

Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,353,378; Sept. 21; v. 278; p. 420.

Calthrop's, E. R., Aerial Patents Limited. (See Calthrop, Everard R., assignor.)

Camell, Ramon, Rhone, and L. Cochet and J. Gritte, Lyon, assignors to Societe Lyonnaise Des Réchauds Catalytiques Camell, Cochet, Gritte & Cie. (Société en Commandite), Calure, Rhone, France. Catalytic heating apparatus. No. 1,354,090; Sept. 28; v. 278; p. 607.

Cameron Can Machinery Co. (See Cameron, William, assignor.)

Cameron, F. K., and J. A. Cullen, Salt Lake City, Utah, and R. W. Hyde, New York, N. Y., assignors to American Smelting & Refining Company, Salt Lake City, Utah. Treating zinc-bearing ores. No. 1,352,399; Sept. 7; v. 278; p. 131.

Cameron, Theodore R., San Antonio, Tex. Power reversing mechanism. No. 1,352,784; Sept. 14; v. 278; p. 244.

Cameron, Theodore R., San Antonio, Tex. Feeding apparatus for baling-presses. No. 1,352,785; Sept. 14; v. 278; p. 244.

Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Can-end-feeding mechanism. No. 1,352,578; Sept. 14; v. 278; p. 202.

Camp, Warner H., and R. H. Butters, assignors to The Butters-Camp Mfg. Co., Atlanta, Ga. Gin or linter saw teeth. No. 1,353,022; Sept. 14; v. 278; p. 291.

Campagnie Des Forges et Acieries De La Marine et D'Homecourt. (See Rimailho, Emile, assignor.)

Campbell, George A., assignor to American Telephone and Telegraph Company, Montclair, N. J. Four-wire transmission system. No. 1,352,786; Sept. 14; v. 278; p. 244.

Campbell, William C., Denver, Colo. Milk-bottle carrier. No. 1,352,173; Sept. 7; v. 278; p. 88.

Campbell, William J., Indianapolis, Ind. Eraser attachment for pencils. No. 1,353,215; Sept. 21; v. 278; p. 388.

Candee, Andrew H., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. System of control. No. 1,352,427; Sept. 14; v. 278; p. 172.

Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,354,167; Sept. 28; v. 278; p. 622.

Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Stamping-press. No. 1,354,377; Sept. 28; v. 278; p. 665.

Canellos, Steve G., Connellsville, Pa. Wall-papering device. No. 1,354,430; Sept. 28; v. 278; p. 675.

Cappelen, Frederick W., Minneapolis, Minn. Headlight-shade. No. 1,353,890; Sept. 28; v. 278; p. 565.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for treating motion-picture films. No. 1,351,834; Sept. 7; v. 278; p. 24.

Card, Samuel, East Providence, R. I. Separator for spinning-frames. No. 1,352,057; Sept. 14; v. 278; p. 218.

Carey, Charles H., Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-press. No. 1,352,501; Sept. 14; v. 278; p. 187.

Carleton, Paul W. (See Lamb, A. B., Miller, and Carleton.)

Carlisle, Bert, Santa Ana, Calif. Direction-indicator for automobiles. No. 1,353,023; Sept. 14; v. 278; p. 291.

Carlson, Edward P., Seattle, Wash. Hydraulic pump. No. 1,353,216; Sept. 21; v. 278; p. 388.

Carlson, Lawrence E., Huntington, Ind. Electric switch. No. 1,352,246; Sept. 7; v. 278; p. 102.

Carmean, James H., Kansas City, Mo. Glove. No. 1,354,241; Sept. 28; v. 278; p. 637.

Carpenter, Brigham, *et al.* (See Prisbrey, George W., assignor.)

Carpenter, Robert H., Chicago, Ill. Adjustable clamp. No. 1,354,378; Sept. 28; v. 278; p. 665.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Cuff-link. No. 1,353,109; Sept. 14; v. 278; p. 307.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,353,110; Sept. 14; v. 278; p. 308.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,353,111; Sept. 14; v. 278; p. 308.

Carr Fastener Company. (See Carr, Fred S., assignor.)

Carr, John D. (See McGarry, H. S., and Carr.)

Carran, Edward, Moxee City, Wash. Sickle-bar attachment for mowing-machines. No. 1,354,242; Sept. 28; v. 278; p. 637.

Carrette, Armand, Paris, France. Screwing apparatus. No. 1,353,024; Sept. 14; v. 278; p. 291.

Carroll, John D., West Lafayette, assignor to Turbo Rotary Engine Company, Evansville, Ind. Piston-vane. No. 1,354,281; Sept. 28; v. 278; p. 646.

Carroll, John D., West Lafayette, assignor to Turbo Rotary Engine Company, Evansville, Ind. Rocker for piston-vanes. No. 1,354,282; Sept. 28; v. 278; p. 646.

Carson, Pirie Scott & Company. (See Boyd, Roger J., assignor.)

Carter, Howard O., Detroit, Mich. Headlight-deflector. No. 1,352,579; Sept. 14; v. 278; p. 203.

Carter, Thomas, Belton, S. C. Fireplace heater and cooker. No. 1,352,048; Sept. 7; v. 278; p. 65.

Carvalho, David N., New York, N. Y. Process and composition for the protection of monetary and other documents. No. 1,353,720; Sept. 21; v. 278; p. 489.

Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,352,247; Sept. 7; v. 278; p. 103.

Case, J. I., Threshing Machine Company. (See Crawford, John F., assignor.)

Casey, Kellogg K. V. (See Woodbridge, R. G., Jr., Casey, and Henning.)

Cass, George R., Ottawa, Ohio. Vaporizer for carburetors. No. 1,352,040; Sept. 7; v. 278; p. 65.

Cassel, Gunnar E., assignor to Aktiebolaget Gyro, Stockholm, Sweden. Parallel bench-vise. No. 1,352,787; Sept. 14; v. 278; p. 245.

Caswell, George B., Fort Terry, N. Y. Oven-grill. No. 1,352,352; Sept. 7; v. 278; p. 122.

Catlin, G. L., and D. Morrison, Port Allegany, assignors to R. W. Hilton, Smethport, Pa. Glass-drawing apparatus. No. 1,351,833; Sept. 7; v. 278; p. 24.

Catron, John J., Bonham, Tex. Liquid storage and dispensing apparatus. No. 1,352,788; Sept. 14; v. 278; p. 245.

Caulfeild, Geraldine M. and H. F. S., Lee, England. Motor-vehicle. No. 1,353,379; Sept. 21; v. 278; p. 420.

Caulfeild, H. F. S. (See Caulfeild, Geraldine M. and H. F. S.)

Celite Products Company. (See Starr, E. B., and Marsh, assignors.)

Central Oil & Gas Stove Company. (See White, Fred E., assignor.)

Central Scientific Company. (See Krause, Arndt M., assignor.)

Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Brake for window-sashes. No. 1,352,875; Sept. 14; v. 278; p. 262.

Challet, Etienne, Geneva, Switzerland. Sliding calipers. No. 1,351,941; Sept. 7; v. 278; p. 46.

Champion Ignition Company. (See Schmidt, Albert, assignor.)

Champion Kerosene Burner, The. (See Hill, Clarence A., assignor.)

Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)

Chandler and Price Company, The. (See Tyler, Ralph S., assignor.)

Chapman, Frank, Providence, R. I. Portable stove. No. 1,353,314; Sept. 21; v. 278; p. 407.

Chapman, Richard D. (See Crook, A., and Chapman.)

Chapman, Walter I., Jersey City, N. J. Roofing-tile and fastening means therefor. No. 1,353,807; Sept. 21; v. 278; p. 505.

Chappelle, Charles C., New York, N. Y. Gas-burner. No. 1,353,217; Sept. 21; v. 278; p. 389.

Chapron, Baptiste A. J., Puteaux, France. Agricultural tractor. No. 1,351,942; Sept. 7; v. 278; p. 46.

Charles, Henry L., Butte, Mont. Reverberatory furnace. No. 1,351,835; Sept. 7; v. 278; p. 24.

Chase, Arthur H., and H. L. Boesch, Washington, D. C., assignors to Government of the United States. Flask for torpedoes. No. 1,354,091; Sept. 28; v. 278; p. 607.

Chase, Harry M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,352,428; Sept. 14; v. 278; p. 172.

Chase, Philip H., East Orange, N. J. Electric switch. No. 1,352,400; Sept. 7; v. 278; p. 131.

Chase, Philip H., East Orange, N. J. Electric switch. No. 1,352,401; Sept. 7; v. 278; p. 131.

Chase, Philip H., East Orange, N. J. Electric switch. No. 1,352,402; Sept. 7; v. 278; p. 131.

Chattle, Michael, Wauna, Oreg. Engine-starter. No. 1,352,353; Sept. 7; v. 278; p. 123.

Chemical Foundation, The. (See Theil, Otto, assignor.)

Chemical Foundation, The. (See Schwerin, Botho, assignor.)

Chemical Foundation, The. (See Tambach, Rudolf, assignor.)

Cherry, Edward P., Dayton, assignor of one-half to N. N. Cherry, Springfield, Ohio. Illuminated sign. No. 1,353,516; Sept. 21; v. 278; p. 447.

Cherry, Norman N. (See Cherry, Edward P., assignor.)

Chesnutt, John L., assignor to The Service Caster & Truck Company, Kansas City, Mo. Operating mechanism for elevating-trucks. No. 1,353,564; Sept. 21; v. 278; p. 457.

Chicago Cabinet Lock Company. (See Baird, Edward P., assignor.)

Chicago Flexible Shaft Company. (See Kocourek, Henry, assignor.)

Chicago Hardware Foundry Company. (See Cook, Fred W., assignor.)

Chicago Railway Equipment Company. (See William, Charles H., assignor.)

Chicken, C. B., and J. H. Thain, assignors to Sir W. G. Armstrong, Whitworth and Company Limited, Newcastle-upon-Tyne, England. Electrical signaling apparatus. No. 1,353,025; Sept. 14; v. 278; p. 291.

Chipperfield, Walter, Hornchurch, assignor to Roneo Limited, London, England. Metal filing-cabinet. No. 1,353,452; Sept. 21; v. 278; p. 434.

Chipperfield, Walter, Romford, assignor to Roneo Limited, London, England. Means for simultaneously locking sliding drawers, shelves, or other sliding structures. No. 1,353,453; Sept. 21; v. 278; p. 434.

Chisholm, Douglas W., Garnkirk, Scotland. Closing die or bell for welded tubes. No. 1,353,721; Sept. 21; v. 278; p. 489.

Chmielarski, Walter, Gary, Ind. Bomb-dropper. No. 1,353,518; Sept. 21; v. 278; p. 447.

Chomos, John, Toledo, Ohio. Window-locking device. No. 1,352,114; Sept. 7; v. 278; p. 77.

Christensen Machine Company. (See Christensen, Martin, assignor.)

Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Control for stitching-machines. No. 1,353,989; Sept. 28; v. 278; p. 585.

Christmas, Adolph F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Governing fuel-pump. No. 1,352,050; Sept. 7; v. 278; p. 65.

Church, Ira, assignor of one-half to L. Sanford, Reed City, Mich. Ratchet and clutch mechanism. No. 1,352,354; Sept. 7; v. 278; p. 123.

Church, John L., Oakland, Calif. Dice-game device. No. 1,353,380; Sept. 21; v. 278; p. 420.

Churchill, Patrick, Manchester, England. Buoyant life-saving fitting and appliance for ships. No. 1,351,836; Sept. 7; v. 278; p. 24.

Chytracek, Joseph, Clifton Mills, W. Va. Ash-sifter. No. 1,354,243; Sept. 28; v. 278; p. 638.

Cibulka, George A., St. Louis, Mo. Collapsible box. No. 1,353,629; Sept. 21; v. 278; p. 470.

Cincinnati Lathe & Tool Company, The. (See Thiel, Louis, assignor.)

Ciuille, Georges, Epierre, France. Manufacture of steel. No. 1,352,580; Sept. 14; v. 278; p. 203.

Clancy, John C., New York, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,174; Sept. 7; v. 278; p. 89.

Clancy, John C., Freeport, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Obtaining the cyanogen compound of an alkali metal. No. 1,352,175; Sept. 7; v. 278; p. 89.

Clancy, John C., Freeport, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Process of and means for forming nitrogenous compounds. No. 1,352,176; Sept. 7; v. 278; p. 89.

Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis catalyst and making same. No. 1,352,177; Sept. 7; v. 278; p. 89.

Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis and catalyst therefor. No. 1,352,178; Sept. 7; v. 278; p. 89.

Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis. No. 1,352,179; Sept. 7; v. 278; p. 89.

Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,180; Sept. 7; v. 278; p. 89.

Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,181; Sept. 7; v. 278; p. 89.

Clancy, John C., Niagara Falls N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Production of ammonia. No. 1,352,182; Sept. 7; v. 278; p. 89.

Clapp, William B., Abington, Mass. Cranberry-picker. No. 1,354,283; Sept. 28; v. 278; p. 646.

Clare, Peter, assignor of one-half to G. W. Wilson, Valley, Wash. Hook. No. 1,353,026; Sept. 14; v. 278; p. 292.

Clark, Ernest H., Birmingham, Ala. Record-book. No. 1,353,315; Sept. 21; v. 278; p. 407.

Clark, Francisco, Durango, Mexico. Combination-key. No. 1,353,722; Sept. 21; v. 278; p. 489.

Clarke, Alex A., Dallas, Tex. Handle attachment for surface-treating machines. No. 1,352,581; Sept. 14; v. 278; p. 203.

Clarke, Alex A., Dallas, Tex. Surface-treating device. No. 1,352,582; Sept. 14; v. 278; p. 203.

Clarke, Alex A., Dallas, Tex. Surface-treating machine. No. 1,352,583; Sept. 14; v. 278; p. 203.

Clarke, John A., Jr., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,354,168; Sept. 28; v. 278; p. 622.

Clarke, St. John, Bogota, N. J. Shore-protector. No. 1,352,429; Sept. 14; v. 278; p. 172.

Clarke, William, Montreal, Quebec, Canada. Liquid-fuel burner. No. 1,353,112; Sept. 14; v. 278; p. 308.

Clary, Simon, Carnegie, Pa. Guard device for railways. No. 1,353,723; Sept. 21; v. 278; p. 489.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Impulse-controlling system. No. 1,353,517; Sept. 21; v. 278; p. 447.

Clay, William H., Eustis, Fla. Bow-facing oar. No. 1,353,027; Sept. 14; v. 278; p. 292.

Clegg, Herbert, Burnley, England. Apparatus for the purpose of providing public amusement and exercise. No. 1,354,021; Sept. 28; v. 278; p. 592.

Clement, Lewis M., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for varying electrical coupling. No. 1,353,145; Sept. 21; v. 278; p. 375.

Clements Co., The. (See Kennedy, Joseph, assignor.)

Clements, William E., assignor of one-half to A. C. Penner, Oroville, Calif. Electrode-holder. No. 1,353,028; Sept. 14; v. 278; p. 292.

Clemons, Fay A., Clemons, Iowa. Stock-waterer. No. 1,353,146; Sept. 21; v. 278; p. 375.

Clendenning, William, Philadelphia, Pa. Tire. No. 1,354,431; Sept. 28; v. 278; p. 676.

Cleveland, Edgar L., Othello, Wash. Collapsible tube. No. 1,352,355; Sept. 7; v. 278; p. 123.

Cleveland Phonograph Company, The. (See Horswell, Percy A., assignor.)

Cleveland Tractor Company, The. (See Strait, William, assignor.)

Clifford, Harlon A., assignor of one-half to J. W. Cobb, Greenfield, Mass. Disinfecting apparatus. No. 1,354,244; Sept. 28; v. 278; p. 638.

Coar, Enos E., South Bend, Ind. Roof connection for vent-pipes. No. 1,352,248; Sept. 7; v. 278; p. 103.

Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,353,316; Sept. 21; v. 278; p. 408.

Cobb, Harry E., Springfield, Ill. Ensilage-packer. No. 1,353,724; Sept. 21; v. 278; p. 489.

Cobb, James W. (See Clifford, Harlon A., assignor.)

Cochet, Laurent. (See Camell, R. Cochet, and Gritte.)

Coching, Gregorio C., Manila, Philippine Islands. Combined eye-shade and reflector. No. 1,353,630; Sept. 21; v. 278; p. 471.

Cochran, John J., assignor, to Martin-Lumaghi Manufacturing Company, St. Louis, Mo. Means for supplying explosive mixtures to engines. No. 1,353,454; Sept. 21; v. 278; p. 434.

Coffman, Edward S., Clifton Forge, Va., assignor to F. E. Stebbins, Washington, D. C. Door-controlling device. No. 1,353,218; Sept. 21; v. 278; p. 389.

Coffman, Samuel M., assignor to The Barbers Electric Specialty Company, Kansas City, Mo. Electric hair-drying device. No. 1,352,876; Sept. 14; v. 278; p. 263.

Cogliolo, Tomaso S., assignor to Società Esercizio Bacini, Industrials, Genoa, Italy. Marine propeller. No. 1,352,877; Sept. 14; v. 278; p. 263.

Cohan, Charles. (See Herschede, W. J., and Cohan.)

Cohen, Louis, Johnstown, N. Y. Auto-bumper. No. 1,351,837; Sept. 7; v. 278; p. 25.

Cohen, Samuel, and A. R. Foerster, New York, N. Y. Button device. No. 1,353,725; Sept. 21; v. 278; p. 490.

Cohon, Benjamin J., Westwood, and L. Moskowitz, Bayonne, N. J. Lock. No. 1,351,838; Sept. 7; v. 278; p. 25.

Colburn Machine Tool Company. (See Head, Ernest C., assignor.)

Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction solder-pot heater. No. 1,352,430; Sept. 14; v. 278; p. 173.

Coldwell, Harry T., Chicago, Ill., assignor of one-half to O. A. Sanford, Morristown, N. J. Lawn-mower. No. 1,354,169; Sept. 28; v. 278; p. 622.

Cole, Frederick W., Newton Highlands, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, Newton Upper Falls, Mass. Electromechanical valve mechanism for timing and controlling blasts on fire-alarm whistles and the like. No. 1,353,317; Sept. 21; v. 278; p. 408.

Coleman, Stephen L. C., Fredericton, New Brunswick, Canada. Shock-absorbing mechanism for motor-vehicles. No. 1,353,029; Sept. 14; v. 278; p. 292.

Collicutt, D. Fellows, Columbia, S. C. Scythe-snathe. No. 1,353,631; Sept. 21; v. 278; p. 471.

Collins, Thomas E., Chicago, Ill. Door check and closers. No. 1,353,219; Sept. 21; v. 278; p. 389.

Colver, Arthur S., and H. E. Hellm, assignors of one-third to C. C. Colver, Chicago, Ill. Labeling-machine. No. 1,353,519; Sept. 21; v. 278; p. 448.

Colver, Charles C. (See Colver, A. S., and Hellm, assignors.)

Combustion Engineering Corporation. (See Skelly, John S., assignor.)

Combustion Engineering Corporation. (See Wagoner, Judson E., assignor.)

Commonwealth Steel Company. (See Sheehan, William M., assignor.)

Concannon, Michael E., Chicago, Ill. Proportional spacer. No. 1,351,889; Sept. 7; v. 278; p. 36.

Condon, Edward T., Jr., New York, N. Y. Automatic stop mechanism for talking-machines. No. 1,351,839; Sept. 7; v. 278; p. 25.

Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Regulating device for dynamo-electric machines. No. 1,352,051; Sept. 7; v. 278; p. 66.

Conlin, Frederick. (See Heath, Harry E., assignor.)

Conlin, William P. (See Heath, C. W., and Conlin.)

Conover, George W., assignor to The C-K Co., Chicago, Ill. Dish-washing machine. No. 1,354,022; Sept. 28; v. 278; p. 592.

Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ignition system. No. 1,352,431; Sept. 14; v. 278; p. 173.

Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical ignition system. No. 1,352,432; Sept. 14; v. 278; p. 173.

Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical ignition system. No. 1,352,433; Sept. 14; v. 278; p. 173.

Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Ignition system. No. 1,352,434; Sept. 14; v. 278; p. 173.

Conradson, Conrad M., Madison, Wis. Carriage-bed for lathes. No. 1,352,183; Sept. 7; v. 278; p. 89.

Consumers Biscuit Company. (See Rizzuto, James, assignor.)

Converse, Atherton D., Winchendon, Mass. Toy aeroplane. No. 1,353,147; Sept. 21; v. 278; p. 375.

Cook, Albert E., Evanston, Ill. Endless cutter for mowers. No. 1,353,891; Sept. 28; v. 278; p. 566.

Cook, Charles B. (See Cook, Clayton T. and C. B.)

Cook, Clayton T. and C. B., Owosso, Mich. Acetylene-gas generator. No. 1,353,455; Sept. 21; v. 278; p. 435.

Cook, Elmer E., Sharon Hill, assignor of one-half to D. Thorton, Ada, Pa. Six-wheel pivotal bogie-truck. No. 1,352,878; Sept. 14; v. 278; p. 263.

Cook, Fred W., assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Toilet-paper fixture. No. 1,354,170; Sept. 28; v. 278; p. 623.

Cooley, Frank L., Brooklyn, N. Y. Refillable cartridge-fuse. No. 1,354,284; Sept. 28; v. 278; p. 646.

Cooley, Fred W., Minneapolis, Wis. Tone-modifier for talking-machines. No. 1,352,115; Sept. 7; v. 278; p. 78.

Coons, Alonzo, Wappingers Falls, N. Y. Clamp. No. 1,353,632; Sept. 21; v. 278; p. 471.

Cooper, Cullen B., *et al.* (See Lambeth, Acey L., assignor.)

Cooper, George F., Detroit, Mich. Display-rack. No. 1,351,994; Sept. 7; v. 278; p. 56.

Cooper, Samuel S., Landgraff, W. Va. Trolley-pole head. No. 1,353,381; Sept. 21; v. 278; p. 420.

Coote, John M., Elizabeth, N. J. Elevator safety-contact. No. 1,353,148; Sept. 21; v. 278; p. 375.

Cope, Frank T. (See Baily, T. F., and Cope.)

Copp, Earl F., Montclair, N. J. Tone-modifier. No. 1,354,171; Sept. 28; v. 278; p. 623.

Copthorne, Howard N., Chicago, Ill., and A. L. Tannehill, Gary, Ind. Producing artificial resin. No. 1,353,220; Sept. 21; v. 278; p. 389.

Cornett, Gardner, Bronxville, N. Y., and C. W. Stancliffe, Toronto, Ontario, Canada, assignors to Pneumercator Company, New York, N. Y. Trap for manometer-tubes. No. 1,354,023; Sept. 28; v. 278; p. 592.

Corning Glass Works. (See Bailey, James, assignor.)

Cornish, Philip, Leytonstone, England. Fixed seat for use in cinemas, theaters, and the like. No. 1,351,995; Sept. 7; v. 278; p. 56.

Corona Typewriter Company, Inc. (See Moser, Albert F., assignor.)

Corpee, Adolph, and A. Kraft, Oakland, Calif. Turntable. No. 1,354,285; Sept. 28; v. 278; p. 646.

Corrigan, Clyde S., Norwood, Ohio. Mining-machine. No. 1,351,892; Sept. 7; v. 278; p. 36.

Corte, Camillo, Rome, Italy. Multiple wheel for road-vehicles. No. 1,351,996; Sept. 7; v. 278; p. 56.

Coryell, William C., assignor to The General Fireproofing Company, Youngstown, Ohio. Machine for making building fabric. No. 1,353,456; Sept. 21; v. 278; p. 435.

Coryell, William C., assignor to The General Fireproofing Company, Youngstown, Ohio. Building fabric. No. 1,354,024; Sept. 28; v. 278; p. 593.

Coryell, William C., assignor to The General Fireproofing Company, Youngstown, Ohio. Stone-surfacing fibrous materials. No. 1,354,025; Sept. 28; v. 278; p. 593.

Cosgrove, John W., Medford, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-holder. No. 1,353,892; Sept. 28; v. 278; p. 566.

Cossitt, Malcolm L., Oakland, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifolding medium. No. 1,353,149; Sept. 21; v. 278; p. 375.

Costmeter Company. (See Fowler, Edward E., assignor.)

Cothran, John T., Spartanburg, S. C. Lifting-rod collar for spinning-frames. No. 1,353,633; Sept. 21; v. 278; p. 471.

Cotton, Alfred, and L. F. Koellner, Hartford, Conn. Sheet-metal wheel. No. 1,352,723; Sept. 14; v. 278; p. 231.

Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Couper, William D., Chicago, Ill. Apparatus for mixing and controlling a supply of fuel for explosion-engines. No. 1,353,893; Sept. 28; v. 278; p. 566.

Coups, Charles A. (See Joule, J., and Coups.)

Courtney, John, Mark Center, Ohio. Automobile-lock. No. 1,354,172; Sept. 28; v. 278; p. 623.

Cowan, John A., Kansas City, Mo. Traction device for vehicles. No. 1,353,318; Sept. 21; v. 278; p. 408.

Cox, Arthur O., and P. Sager, Watsonville, Calif. Cultivator. No. 1,352,783; Sept. 14; v. 278; p. 244.

Cox, B. P., *et al.* (See Swatzell, David N., assignor.)

Cox, Ross C., and J. F. McGinnitey, St. Joseph, Mo. Mashing and mixing machine. No. 1,351,890; Sept. 7; v. 278; p. 36.

Cox, William A., Los Angeles, Calif. Menu and napkin holder. No. 1,354,026; Sept. 28; v. 278; p. 593.

Craig, Joseph E., Gary, Ind. Combined dental mirror and syringe. No. 1,352,789; Sept. 14; v. 278; p. 245.

Craig, Robert M., Wilkinsburg, Pa. Making metallic denture-backings. No. 1,353,565; Sept. 21; v. 278; p. 457.

Craigie, Frank, and J. Hines, Chicago, Ill. Nozzle. No. 1,351,840; Sept. 7; v. 278; p. 25.

Crandell, Willis S., Elsmere, assignor to Albany Perforated Wrapping Paper Company, Albany, N. Y. Process of and machine for winding rolls of paper towels and toilet-paper, &c. No. 1,353,634; Sept. 21; v. 278; p. 471.

Crate, James S., Houston, Tex. Envelop. No. 1,354,092; Sept. 28; v. 278; p. 607.

Craven, James F., Pittsburgh, Pa. Grease-cup. No. 1,351,841; Sept. 7; v. 278; p. 25.

Crawford, Frank S., assignor to The Crawford Manufacturing Company, New Brunswick, N. J. Stop-motion. No. 1,354,379; Sept. 28; v. 278; p. 665.

Crawford, Howard H., assignor to Detroit Motor Appliance Company, Detroit, Mich. Radiator-shield. No. 1,352,184; Sept. 7; v. 278; p. 90.

Crawford, John F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Metal-bending machine. No. 1,353,865; Sept. 21; v. 278; p. 472.

Crawford Manufacturing Company, The. (See Crawford, Frank, Sr., assignor.)

Crawford, William R., Pomona, Calif. Smokeless orchard-heater. No. 1,353,636; Sept. 21; v. 278; p. 472.

Creitz, Walter M., Bethlehem, Pa. Guard-rail structure. No. 1,352,356; Sept. 7; v. 278; p. 123.

Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,353,319; Sept. 21; v. 278; p. 408.

Crippen, George F., Ypsilanti, assignor to The Crippen Manufacturing Company, Mount Pleasant, Mich. Roll-adjusting apparatus. No. 1,352,052; Sept. 7; v. 278; p. 66.

Crippen Manufacturing Company, The. (See Crippen, George F., assignor.)

Criqui, Charles A., and E. T. Larkin; said Larkin assignor to said Criqui, Buffalo, N. Y. Mechanism for controlling lubrication of explosion-engines. No. 1,353,894; Sept. 28; v. 278; p. 566.

Crissinger, Joseph J., Greensburg, Pa. Nut-lock. No. 1,353,382; Sept. 21; v. 278; p. 421.

Crisson, George, Hoboken, N. J., assignor to American Telephone and Telegraph Company. Repeater-circuit. No. 1,353,637; Sept. 21; v. 278; p. 472.

Crocker, Arthur T. Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,352,249; Sept. 7; v. 278; p. 103.

Crocker, Clarence T., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,352,250; Sept. 7; v. 278; p. 103.

Crofut & Knapp Company. (See Josephs, Julius, assignor.)

Crommett, Charles F., Chelsea, Mass. Containing apparatus and valve system therefor. No. 1,353,320; Sept. 21; v. 278; p. 408.

Crommett, Charles F., Chelsea, Mass. Valve. No. 1,353,321; Sept. 21; v. 278; p. 409.

Crommett, Charles F. and O. J., Chelsea, assignors, by mesne assignments, to G. L. Cabot, Cambridge, Mass. Apparatus for producing liquid oxygen. No. 1,354,380; Sept. 28; v. 278; p. 665.

Crommett, Orrin J. (See Crommett, Charles F., and O. J.)

Crompton & Knowles Loom Works. (See Regan, John, assignor.)

Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)

Crompton & Knowles Loom Works. (See Stone, Charles M., assignor.)

Crook, Alfred, and R. D. Chapman, Philadelphia, Pa., assignors to Taylor-Wharton Iron and Steel Company, Highbridge, N. J. Method and means for making asbestos shingles. No. 1,352,941; Sept. 14; v. 278; p. 275.

Crosthwait, David N., Jr., Marshalltown, Iowa. Apparatus for returning water to boilers. No. 1,353,457; Sept. 21; v. 278; p. 435.

Crowell, Erd V., Tulsa, Okla. Gas-energy-control head for oil-wells. No. 1,354,027; Sept. 28; v. 278; p. 593.

Cuau, Charles, Paris, France. Construction of radiators for cooling the circulating water in explosion-motors. No. 1,353,822; Sept. 21; v. 278; p. 409.

Cullen, John A. (See Cameron, F. K., Cullen, and Hyde.)

Cullerton, William J. (See Holst, Charles T., assignor.)

Culleton, Robert A., and D. J. Leahy, Brooklyn, N. Y. Gas-meter. No. 1,351,842; Sept. 7; v. 278; p. 25.

Culligan, John C., Bombay, N. Y. Package-tie. No. 1,352,357; Sept. 7; v. 278; p. 123.

Cummings, B. F., Perforator Company, The. (See Swanson, Hjalmar, assignor.)

Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraphy. No. 1,352,116; Sept. 7; v. 278; p. 78.

Cummings, Henry H. (See Thompson, J. T., and Cummings.)

Cunningham, Clyde L., Perris, Calif. Tire. No. 1,353,726; Sept. 21; v. 278; p. 490.

Curran, Edward T., Detroit, Mich. Radiator. No. 1,352,584; Sept. 14; v. 278; p. 204.

Curran, William, Lewiston, Me., assignor of one-third to P. F. Tremblay, Lewiston, and one-third to H. W. Oakes, Auburn, Me. Let-off-rod operator. No. 1,353,727; Sept. 21; v. 278; p. 490.

Currie, John, and H. W. Bell, Seattle, Wash. Dust-cap for pneumatic valves. No. 1,353,125; Aug. 14; v. 278; p. 310.

Curry, David, New York, N. Y. Guard for printing-presses. No. 1,351,997; Sept. 7; v. 278; p. 56.

Curtin, John W., Worcester, Mass. Nut-lock. No. 1,352,053; Sept. 7; v. 278; p. 66.

Curtis, Harry D., Red Bank, N. J. Hat-size reducer. No. 1,351,893; Sept. 7; v. 278; p. 36.

Curtiss Aeroplane & Motor Corporation. (See Curtiss, G. H., and Kleckler, assignors.)

Curtiss Aeroplane and Motor Corporation. (See Curtiss, Glenn H., assignor.)

Curtiss Aeroplane & Motor Corp. (See Kirkham, Charles B., assignor.)

Curtiss Aeroplane & Motor Corporation. (See Kleckler, Henry, assignor.)

Curtiss, Glenn H., and H. Kleckler, assignors to Curtiss Aeroplane & Motor Corporation, Buffalo, N. Y. Flying-boat construction. No. 1,351,742; Sept. 7; v. 278; p. 5.

Curtiss, Glenn H., assignor to Curtiss Aeroplane and Motor Corporation, Garden City, N. Y. Airplane-wing-structure truss. No. 1,351,743; Sept. 7; v. 278; p. 6.

Cutler-Hammer Mfg. Co., The. (See Holder, William H., assignor.)

Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)

Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)

Cutler, William C., North Glendale, Calif. Antiskid device. No. 1,352,403; Sept. 7; v. 278; p. 131.

Cutler, William C., North Glendale, Calif. Directory machine. No. 1,352,416; Sept. 7; v. 278; p. 134.

Cutler, William C., North Glendale, Calif. Directory-machine. No. 1,353,458; Sept. 21; v. 278; p. 435.
Czumpft, John, assignor to Art Woodwork Company, Brooklyn, N. Y. Curved wood tube and making same. No. 1,353,895; Sept. 28; v. 278; p. 566.
Dahlstrom, John J., Amite, La. Collapsible crate. No. 1,353,030; Sept. 14; v. 278; p. 292.
Dai-Nippon Enkei Shinju Kabushiki Kwaisha. (See Mise, Tatsuhei, assignor.)
Dailey, Roy A., Taft, Calif. Overshot. No. 1,351,744; Sept. 7; v. 278; p. 6.
Dalbey, James H., assignor to Elgin Rubber Ace Company, Elgin, Ill. Resilient core for tires. No. 1,351,894; Sept. 7; v. 278, p. 36.
Danforth, Harland A., Saugus, Mass. Shock-absorber. No. 1,352,724; Sept. 14; v. 278; p. 732.
Daniels, Edward G. (See Mott, Daniel V., assignor.)
Danielsson, Axel, Gottenborg, Sweden. Machine for grinding concaved spherical surfaces. No. 1,352,790; Sept. 14; v. 278; p. 245.
Danly, Robert C., assignor to Ludwig & Ludwig, Chicago, Ill. Snare-tensioning device for drums. No. 1,354,028; Sept. 28; v. 278; p. 593.
Dann, Frederick J., Countesthorpe, England, assignor to Wallace J. Bartholomew, London, England. Spade and like digging-tool. No. 1,353,459; Sept. 21; v. 278; p. 435.
Danziger, Adolphe. (See Rider, Thomas B., assignor.)
Daugherty, Alvin A., New York, N. Y. Apparatus for producing gasolene and other products from hydrocarbons. No. 1,353,638; Sept. 21; v. 278; p. 472.
Davidson, Charles S., assignor of one-third to F. M. Pool and one-third to J. E. Faber, Los Angeles, Calif. Dry-chemical fire-extinguisher. No. 1,354,093; Sept. 28; v. 278; p. 608.
Davidson, Frank B., Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y. Paper-board. No. 1,353,323; Sept. 21; v. 278; p. 409.
Davis, A. B. (See Fisk, Alfred A., assignor.)
Davis-Bournonville Company. (See Plumley, Stuart, assignor.)
Davis, Claude H., Wanganui, New Zealand. Vacuum milking-machine. No. 1,353,639; Sept. 21; v. 278; p. 472.
Davis, George H., West Orange, N. J. Perforated music-sheet for automatic musical instruments. No. 1,353,460; Sept. 21; v. 278; p. 436.
Davis, H. G., Manufacturing Company. (See Henry, George W., Jr., assignor.)
Davis, Harry S., Indianapolis, Ind. Weather-strip. No. 1,352,879; Sept. 14; v. 278; p. 263.
Davis, Henry J., Waynesboro, Ga. Agricultural machine. No. 1,352,725; Sept. 14; v. 278; p. 232.
Davis, John V., Kelseyville, Calif., assignor, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Automatic weighing and recording scale. No. 1,352,880; Sept. 14; v. 278; p. 263.
Davis, Minor M., New York, N. Y. Protecting device for electrical instruments. No. 1,352,117; Sept. 7; v. 278; p. 78.
Dawley, James C. (See Ripsch, C. W., and Dawley.)
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,352,791; Sept. 14; v. 278; p. 246.
Dawson, Vernon B., Bridgeton, N. J. Combined eraser-holder and point-protector for pencils. No. 1,353,896; Sept. 28; v. 278; p. 567.
Dawson, William. (See Williams, William M., assignor.)
Day, John L., Memphis, Tenn. Fuel-tank. No. 1,352,792; Sept. 14; v. 278; p. 246.
Day and Zimmerman. (See Remington, Joseph P., assignor.)
Dayon, Albert, Dollard, Saskatchewan, Canada. Toy. No. 1,354,381; Sept. 28; v. 278; p. 665.
Daysh, Norman J., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Milking machinery. No. 1,352,726; Sept. 14; v. 278; p. 232.
Dean, Anthony E. (See Winters, Robert E., assignor.)
Dean, Mark, Boonville, N. Y. Signal-operating device for automobiles. No. 1,351,745; Sept. 7; v. 278; p. 6.
De Bats, Jean H. L., Stoneham, Mass., assignor to New Process Metals Corporation, Wilmington, Del. Method of and apparatus for melting and casting metals. No. 1,354,286; Sept. 28; v. 278; p. 647.
De Camp, Ray E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,354,173; Sept. 28; v. 278; p. 623.
Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Making inner tubes. No. 1,354,174; Sept. 28; v. 278; p. 623.
Decker, Hugh L., and H. E. Adams, assignors to The W. G. Nagel Electric Company, Toledo, Ohio. Oil-can holder. No. 1,353,898; Sept. 28; v. 278; p. 567.
Deden, Freda L., Fort Smith, Ark. Typewriter attachment. No. 1,353,150; Sept. 21; v. 278; p. 375.
Deets, Clarence L., Portland, Oreg. Fishing-reel. No. 1,353,113; Sept. 14; v. 278; p. 308.
Deere & Company. (See Neighbour, Leonard B., assignor.)
De-Felice, Carlo, New York, N. Y. Magazine-feed and gun for using same. No. 1,354,432; Sept. 28; v. 278; p. 676.
De-Felice, Carlo, New York, N. Y. Lens-clarifying apparatus. No. 1,354,433; Sept. 28; v. 278; p. 676.
Defenbaugh, Carl C., Winnemucca, Nev. Combination potato masher and beater. No. 1,353,520; Sept. 21; v. 278; p. 448.
Deffenbaugh, Estella, Berkeley, Calif. Auxiliary stove-top. No. 1,354,029; Sept. 28; v. 278; p. 594.
Defiance Check Writer Corporation. (See Plant, Henry J., assignor.)
De Froy, Jules. (See Bermier, Henry N., assignor.)
Delley, Harvey R. (See Lindstrom, J. T., and Delley.)
Delley, Harvey R., Bethlehem, assignor of one-half to J. T. Lindstrom, Allentown, Pa. Automobile safety-signal. No. 1,351,773; Sept. 7; v. 278; p. 11.
Deininger, John, Blaubeuren, Germany. Screw-press. No. 1,354,446; Sept. 28; v. 278; p. 678.
Delamater, George R., Steelton, Pa. Mineral-washing apparatus. No. 1,352,727; Sept. 14; v. 278; p. 233.
Delaney, Edward C., New York, N. Y. Seating plan and class-record. No. 1,352,728; Sept. 14; v. 278; p. 233.
De Laval Separator Company, The. (See Daysh, Norman J., assignor.)
De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
Delco-Light Company. (See Kettering, Charles F., assignor.)
De Lorme, Alfred C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Safety spark-gap for magnetos. No. 1,353,566; Sept. 21; v. 278; p. 457.
De Lorme, Alfred C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,353,990; Sept. 28; v. 278; p. 586.
Demarest, Charles S., assignor to American Telephone and Telegraph Company, Brooklyn, N. Y. Vacuum-bulb for signaling apparatus. No. 1,353,031; Sept. 14; v. 278; p. 292.
De Mattia, Constant, assignor to Wolverine Truck-Trailer Co., Detroit, Mich. Trailer. No. 1,354,175; Sept. 28; v. 278; p. 624.
Deming, Edwin W., Redding, Conn. Range-finder. No. 1,353,151; Sept. 21; v. 278; p. 876.
Dence, Carl, assignor of one-fourth to M. J. Joyce, Brooklyn, N. Y. Table. No. 1,353,728; Sept. 21; v. 278; p. 490.
Denivelle, Otto E., Mount Vernon, N. Y. Doll's eye. No. 1,354,382; Sept. 28; v. 278; p. 666.
Dennert, Edward C., assignor to Westinghouse Electric and Manufacturing Company, Detroit, Mich. Beverage-preparing machine. No. 1,352,435; Sept. 14; v. 278; p. 173.
Dentists' Supply Company, The. (See Whiteley, George H., Jr., assignor.)
Denver Rock Drill Manufacturing Company, The. (See Chase, Harry M., assignor.)
Denver Rock Drill Manufacturing Company. (See Nell, Gustave M., assignor.)
Depew, Rufus, Brooklyn, N. Y. Gas-burner for heaters. No. 1,352,358; Sept. 7; v. 278; p. 123.
De Save, Arthur E., Mobile, Ala. Crow's-nest for ships. No. 1,354,383; Sept. 28; v. 278; p. 666.
De Teixeira, Anna L. H. (See de Teixeira, Eugenio, assignor.)
De Teixeira, Eugenio, assignor to A. L. H. De Teixeira, Setauket, N. Y. Table implement. No. 1,353,090; Sept. 14; v. 278; p. 304.
Detroit Automatic Scale Company. (See King, B. W., and Burkeiser, assignors.)
Detroit Motor Appliance Company. (See Crawford, Howard H., assignor.)
Detroit Steel Casting Company. (See Allen, Walter S., assignor.)
De Vaughn, Harry E., assignor to United States Window Glass Company, Morgantown, W. Va. Window-glass-flattening oven. No. 1,352,881; Sept. 14; v. 278; p. 264.
De Witt, Herbert M., Denver, Colo. Hydraulic air-compressor. No. 1,353,897; Sept. 28; v. 278; p. 567.
Dibblee, Alphonse A. (See Barro, Anthony F., assignor.)
Di Carlo, Donato, Philadelphia, Pa. Talking-machine. No. 1,353,324; Sept. 21; v. 278; p. 409.
Dice, John A., assignor of one-half to D. H. Parker, Espanola, Ontario, Canada. Folding ironing-board. No. 1,353,729; Sept. 21; v. 278; p. 490.
Dickey, Daniel A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Forming composite bodies. No. 1,352,436; Sept. 14; v. 278; p. 174.
Dickinson, E. D., and J. Wilkinson, Schenectady, N. Y., assignors to General Electric Company. Flexible coupling. No. 1,352,251; Sept. 7; v. 278; p. 103.
Dies, Charles A., Chicago, Ill. Slicing-machine. No. 1,352,658; Sept. 14; v. 278; p. 218.
Dieser, Julius N., assignor of one-half to A. L. Silverstein, San Francisco, Calif. Vulcanizing-pad. No. 1,353,383; Sept. 21; v. 278; p. 421.
Dietz, Emily K. (See McCorkindale, William P., assignor.)
Dietz, R. E., Company. (See Everett, Ernest C., assignor.)
Dietzel, William, Merrick, N. Y. Combination utensil. No. 1,353,222; Sept. 21; v. 278; p. 389.
Dies, Conrad J. (See Meushaw, T. H., and Dies.)
Dillon, Harry E., Philadelphia, Pa. Concrete pipe construction. No. 1,351,895; Sept. 7; v. 278; p. 86.
Dillon, James L., Leavenworth, Kans., assignor of one-half to F. L. Wendler, St. Louis, Mo. Wrench. No. 1,353,567; Sept. 21; v. 278; p. 457.

Dillon, James L., Leavenworth, Kans., assignor of one-half to F. L. Wendler, St. Louis, Mo. Pipe-vise. No. 1,353,568; Sept. 21; v. 278; p. 458.
Dillon, James L., Leavenworth, Kans., assignor of one-half to F. L. Wendler, St. Louis, Mo. Lifting-aling. No. 1,353,569; Sept. 21; v. 278; p. 458.
Dills, Henry S., Garrett, Ind. Fish-bait. No. 1,352,054; Sept. 7; v. 278; p. 66.
Dilly, Anderson, Brooklyn, N. Y. Signaling device. No. 1,354,030; Sept. 28; v. 278; p. 594.
Dimmock, Charles, Toronto, Ontario, Canada. Coin-controlled apparatus. No. 1,353,228; Sept. 21; v. 278; p. 390.
Dinesen, Laurits, assignor to Perfection Manufacturing Company, Minneapolis, Minn. Milking apparatus. No. 1,353,570; Sept. 21; v. 278; p. 458.
Dinwiddie, William W., West Orange, N. J. Production of molded articles. No. 1,353,152; Sept. 21; v. 278; p. 376.
Di Salvatore, Anthony, Scotia, N. Y. Ladder and safety-lock. No. 1,352,055; Sept. 7; v. 278; p. 66.
Disbrow, Adelbert A., Stevenson, Wash. Writer's aiding device. No. 1,353,780; Sept. 21; v. 278; p. 491.
Diskin, Moses B., New York, N. Y. Resilient wheel. No. 1,353,731; Sept. 21; v. 278; p. 491.
Dismore, Paul R. (See Bogart, John C., assignor.)
Dobbins, James C., Rock Hill, S. C. Brick-machine. No. 1,352,056; Sept. 7; v. 278; p. 66.
Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Fuel-burner. No. 1,351,944; Sept. 7; v. 278; p. 46.
Doble-Detroit Steam Motors Co. (See Doble, Abner, assignor.)
Dobmeier, George, Buffalo, N. Y. Safety-bung. No. 1,353,732; Sept. 21; v. 278; p. 491.
Dobson, John S., assignor to The Niantic Sheet Music Company, Buffalo, N. Y. Sheet-music. No. 1,354,176; Sept. 28; v. 278; p. 624.
Dobson, William, Blackburn, England. Warp-thread and like selecting and separating mechanism. No. 1,353,947; Sept. 28; v. 278; p. 577.
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Clutch and brake mechanism. No. 1,352,585; Sept. 14; v. 278; p. 204.
Dodd, Martin S., administrator. (See Williams, Lacy Y.)
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Lighting means. No. 1,352,252; Sept. 7; v. 278; p. 104.
Dodge, Charlie B. (See Dodge, Lewis, and C. B.)
Dodge, Lewis, and C. B., Morse Bluff, Nebr. Pneumatic foot. No. 1,352,942; Sept. 14; v. 278; p. 275.
Dodge, Lewis, and C. B., Morse Bluff, Nebr. Pneumatic foot. No. 1,352,943; Sept. 14; v. 278; p. 275.
Dodge, William J., San Diego, Calif. Gas turbine-engine. No. 1,353,733; Sept. 21; v. 278; p. 491.
Dodgson, Frank L., Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y. Railway signaling system. No. 1,352,793; Sept. 14; v. 278; p. 246.
Doda, Harry B. (See Strukell, Antony, assignor.)
Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Draft mechanism. No. 1,353,224; Sept. 21; v. 278; p. 390.
Dolbey, Harry S., Providence, R. I. Safety-pin. No. 1,354,094; Sept. 28; v. 278; p. 608.
Dominicus, Cornelis, Baarn, assignor to P. G. Tideman, Apeldoorn, Netherlands. Change-speed gear. No. 1,353,461; Sept. 21; v. 278; p. 436.
Donegan, David H., Saw Pit, Colo. Ore-concentrator. No. 1,352,882; Sept. 14; v. 278; p. 264.
Donoghue, Hugh, Munhall, Pa. Apparatus and method for making concrete elements. No. 1,353,225; Sept. 21; v. 278; p. 390.
Doolittle, Chester M., Kingston, N. Y. Ax. No. 1,354,384; Sept. 28; v. 278; p. 666.
Doran, John H., assignor to General Electric Company, Schenectady, N. Y. Dash-pot. No. 1,352,359; Sept. 7; v. 278; p. 124.
Dorion, Wilfrid, Charlesbourg, Quebec, Canada. Means to change the speed of driving-pulleys. No. 1,353,153; Sept. 21; v. 278; p. 376.
Dosenbach, Benjamin H., deceased; E. M. Dosenbach, executrix, Butte, Mont. Ore-concentrating apparatus. No. 1,354,031; Sept. 28; v. 278; p. 594.
Dosenbach, Edna M., executrix. (See Dosenback, Benjamin H.)
Dovel, Darley B., Pickerington, Ohio. Exhibiting or sign-display apparatus. No. 1,353,734; Sept. 21; v. 278; p. 491.
Dovel, James P., Birmingham, Ala. Twyer and cooling-box. No. 1,354,032; Sept. 28; v. 278; p. 594.
Dover, George W., Cranston, R. I. Setting for jewelry. No. 1,353,822; Sept. 28; v. 278; p. 552.
Dow, Floyd, assignor of one-half to L. D. Edminster, Wyanet, Ill. Pipe-coupling. No. 1,352,118; Sept. 7; v. 278; p. 78.
Doyle, James H., Chicago, and W. J. Kenny, Cicero, Ill., assignors to American Can Company, New York, N. Y. Bail for container bodies. No. 1,351,896; Sept. 7; v. 278, p. 37.
Drake, Alfred E., assignor to Drake Manufacturing Company, Indianapolis, Ind. Steering device. No. 1,352,659; Sept. 14; v. 278; p. 219.
Drake Manufacturing Company. (See Drake, Alfred E., assignor.)
Drelbrodt, Otto, Bitterfeld, Germany, assignor to Elektrochemische Werke, G. m. b. H. Method of and apparatus for forming large crystals. No. 1,353,571; Sept. 21; v. 278; p. 459.
Dressler, William C. (See Huggins, M. J., and Dressler.)
Drey Automatic Glass Machine Company. (See Schram, Alexander L., assignor.)
Drey, Leo A., St. Louis, Mo., and J. L. Hiatt, Sapulpa, Okla., assignors to Schram Glass Manufacturing Co., St. Louis, Mo. Fruit-jar fastener. No. 1,352,119; Sept. 7; v. 278; p. 78.
Dreyfus, Henry, London, England. Manufacture of compositions, preparations, or articles having a basis of cellulose acetate. No. 1,353,384; Sept. 21; v. 278; p. 421.
Dreyfus, Henry, London, England. Manufacture of compositions, preparations, or articles having a basis of cellulose acetate. No. 1,353,385; Sept. 21; v. 278; p. 421.
Drucker, August E. (See Palmer, Robert R., assignor.)
Ducas, Charles. New York, N. Y. Fire-box for boilers. No. 1,353,640; Sept. 21; v. 278; p. 473.
Dudley, Thomas J., Dallas, assignor of one-fourth to A. L. Gracey, Dallas county, Tex. Draft-equalizer. No. 1,354,033; Sept. 28; v. 278; p. 594.
Duensing, A'Quilla, Altoona, Iowa. Printing device. No. 1,353,032; Sept. 14; v. 278; p. 293.
Duffey, Edward M., Kansas City, Mo. Battery-plate support. No. 1,353,154; Sept. 21; v. 278; p. 376.
Duffes, Alfred S., Markesan, Wis., and F. Mead, Chicago, Ill. Cushioned wheel. No. 1,353,325; Sept. 21; v. 278; p. 409.
Duffes, Alfred S., Markesan, Wis. Cushioned-wheel rim. No. 1,353,326; Sept. 21; v. 278; p. 409.
Duffy, James J., Chicago, Ill. Auxiliary rail-support for temporary use. No. 1,353,572; Sept. 21; v. 278; p. 459.
Dufour, Pierre F., Paris, France. Brake for railway-trains. No. 1,352,586; Sept. 14; v. 278; p. 204.
Duggan, Joseph L., Chester, Pa. Game. No. 1,353,462; Sept. 21; v. 278; p. 436.
Dulany, John R., Pittsburgh, Pa. Cleaning oil and gas wells. No. 1,351,945; Sept. 7; v. 278; p. 47.
Dulgeroff, Atanas P., Paducah, Ky. Picture-display device. No. 1,354,245; Sept. 28; v. 278; p. 638.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Ejector for printing-machines. No. 1,353,899; Sept. 28; v. 278; p. 567.
Dunfield, John D., Petrolia, Ontario, Canada. Shoe-tree. No. 1,353,327; Sept. 21; v. 278; p. 410.
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Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Pitting-knife. No. 1,353,328; Sept. 21; v. 278; p. 410.
Dunlop Rubber Company, The. (See Macbeth, C., and Hardeman, assignors.)
Dunn, Andrew C., Minneapolis, Minn. Shock-absorber. No. 1,351,843; Sept. 7; v. 278; p. 26.
Dunn, Guy A. (See Eldridge, J. J., and Dunn.)
Duodo, Arturo, Genoa, Italy. Evaporating and distilling apparatus. No. 1,353,521; Sept. 21; v. 278; p. 448.
Dupont, E. I., de Nemours & Company. (See Woodbridge, R. G., Jr., Casey, and Henning.)
Du Pont, Eleuthere P., Montchanin, Del. Oil-strainer. No. 1,352,120; Sept. 7; v. 278; p. 79.
Du Pont, Ernest. (See Du Pont, Francis I. and E.)
Du Pont, Francis I. and E., Wilmington, Del. Perforated pellet of explosive powder and making same. No. 1,352,121; Sept. 7; v. 278; p. 79.
Dupler, John C., Marietta, Pa. Antiskidding device. No. 1,353,329; Sept. 21; v. 278; p. 410.
Duratex Company, The. (See Wilson, John A., assignor.)
Duston, Ernest W., assignor to The Blake & Johnson Company, Waterbury, Conn. Rolling-mill bridle. No. 1,352,587; Sept. 14; v. 278; p. 204.
Dutreux, Auguste, assignor to Societe Anonyme pour l'Eclairage Electrique des Vehicules, Issy Les Moulineaux, France. Electric starting system for internal-combustion engines. No. 1,352,794; Sept. 14; v. 278; p. 246.
Dutro, Orville V. and A. S. Burroughs, Spokane, Wash. Winding mechanism for printing-presses. No. 1,353,948; Sept. 28; v. 278; p. 577.
Duvall, Adele, Chicago, Ill. Underwear. No. 1,352,944; Sept. 14; v. 278; p. 275.
Dwyer, William O., assignor to General Electrical Company, Pittsfield, Mass. Stationary induction apparatus. No. 1,352,360; Sept. 7; v. 278; p. 124.
Dyer, Guy S., Layton, Utah. Leaching-machine. No. 1,353,463; Sept. 21; v. 278; p. 436.
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Dyson, Alfred H., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,352,660; Sept. 14; v. 278; p. 219.
Eastern Manufacturing Company. (See Ladd, F. C., and Neal, assignors.)
Eastlake, Lewis S., Chicago, Ill. Making lubricating-oils. No. 1,352,502; Sept. 14; v. 278; p. 187.
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Folmer, William F., assignor.)

Eastman Kodak Company. (See Ross, Frank E., assignor.)
Eastwood Wire Manufacturing Company. (See Joule, J., and Coups, assignors.)
Eaton, George M., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Rotor for dynamo-electric machines. No. 1,351,897; Sept. 7; v. 278; p. 37.
Eaton, George M., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Rotatable member for dynamo-electric machines. No. 1,351,898; Sept. 7; v. 278; p. 37.
Eaton, Orrin O., Watsonville, Calif. Shipping package. No. 1,353,155; Sept. 21; v. 278; p. 376.
Eaves, Augustus J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph repeating system. No. 1,353,464; Sept. 21; v. 278; p. 437.
Eberhart, Cleburne, Jr., assignor to Play-O-Lite Company, Incorporated, Buffalo, N. Y. Piano-lamp. No. 1,353,033; Sept. 14; v. 278; p. 293.
Eberle, John A., St. Louis, Mo. Suspensible seat. No. 1,351,746; Sept. 7; v. 278; p. 6.
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Eclipse Machine Company. (See McGrath, William L., assignor.)
Edge Moor Iron Company. (See Sellers, William F., assignor.)
Edminster, Llewellyn D. (See Dow, Floyd, assignor.)
Edwards, Ara B., and C. A. Turner, Hamlet, N. C., and T. L. Reed, Atlanta, Ga. Valve-changing means. No. 1,353,114; Sept. 14; v. 278; p. 308.
Edwards, Francis E., assignor to Stromberg Motor Devices Company, Chicago, Ill. Fuel-feed system. No. 1,353,949; Sept. 28; v. 278; p. 577.
Edwards, Isaac L., Aurora, Ill. Automatic railway switch and signal. No. 1,351,946; Sept. 7; v. 278; p. 47.
Edwards, O. M., Company. (See Chaffee, Edward F., assignor.)
Edwards, William A., Chicago, Ill. Two-cycle engine. No. 1,353,485; Sept. 21; v. 278; p. 437.
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Egerton, Henry C., Passaic, N. J. Shoe-sole. No. 1,352,730; Sept. 14; v. 278; p. 233.
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Egerton, Henry C., Ridgewood, N. J. Gripping rubber shoe-heel. No. 1,352,734; Sept. 14; v. 278; p. 234.
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Egerton, Henry C., Ridgewood, N. J. Rubber shoe-sole for turn-shoes. No. 1,352,736; Sept. 14; v. 278; p. 234.
Egerton, Henry C., Ridgewood, N. J. Partially-stiffened shoe-sole. No. 1,352,737; Sept. 14; v. 278; p. 734.
Egerton, Henry C., Ridgewood, N. J. Making boots and shoes. No. 1,352,738; Sept. 14; v. 278; p. 234.
Egerton, Henry C., Ridgewood, N. J. Fabric. No. 1,352,739; Sept. 14; v. 278; p. 234.
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Ehret, Cornelius D., Philadelphia, Pa. Electrical transmission of intelligence. No. 1,352,589; Sept. 14; v. 278; p. 205.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Condensing apparatus. No. 1 352,437; Sept. 14; v. 278; p. 174.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Condenser. No. 1,352,438; Sept. 14; v. 278; p. 174.
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Ehrhart, Raymond N., Edgewood, Pa. Condenser. No. 1,353,642; Sept. 21; v. 278; p. 473.
Eichelberger, William, Pierce, W. Va., assignor of one-half to G. B. Somerville, Johnstown, Pa. Combined egg boiler and poacher. No. 1,354,385; Sept. 28; p. 278; p. 666.
Eichenderff, Bruno E., San Francisco, Calif. Attachment for diestocks. No. 1,352,253; Sept. 7; v. 278; p. 104.
Eisemann Magneto Corporation. (See Andrew, Frederick W., assignor.)
Eklind, Carl E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Buffer-spring for vestibule-diaphragm face-plates. No. 1,354,177; Sept. 28; v. 278; p. 624.
Elberts, Frank V., assignor to B. F. Everitt Company, Detroit, Mich. Differential mechanism. No. 1,352,590; Sept. 14; v. 278; p. 205.
Eldridge, John J., and G. A. Dunn, Oakland, Calif. Method and apparatus for drying pulp hollow ware. No. 1,352,404; Sept. 7; v. 278; p. 131.
Electric Auto-Lite Corporation. (See Saxon, Hermon R., assignor.)
Electric Furnace Company, The. (See Baily, T. F., and Cope, assignors.)
Elektrisk Varmeteknik A/S. (See Arntzen, A., and Trosdahl, assignors.)
Elektrochemische Werk G. m. b. H. (See Dredbrodt, Otto, assignor.)
Elfreth, Emily A., *et al.*, executors. (See Allen, Samuel L.)
Elgin Rubber Ace Company. (See Dalbey, James H., assignor.)
Elia, Giovanni E., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,352,795; Sept. 14; v. 278; p. 246.
Elias, Abraham J. (See Stupay, Max, assignor.)
Eliasoff, Abraham L., and C. Birnbaum, New York, N. Y. Jewelry-clasp. No. 1,352,591; Sept. 14; v. 278; p. 205.
Elliott, Harold F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radiotelegraphy. No. 1,352,883; Sept. 14; v. 278; p. 264.
Elliott, James P., Chicago, Ill. Waterproof fibrous material and making same. No. 1,352,796; Sept. 14; v. 278; p. 247.
Elk, William, Pittsburgh, assignor of one-half to J. Sinkovitz, Carrick, Pa. Crushing-machine. No. 1,352,797; Sept. 14; v. 278; p. 246.
Elmblad, Hjalmar, Chicago, Ill. Writing-machine. No. 1,352,405; Sept. 7; v. 278; p. 182.
Emco Manufacturing Company. (See Taber, George H., assignor.)
Emerson, Victor H., New York, N. Y. Manufacturing sound-records. No. 1,353,522; Sept. 21; v. 278; p. 448.
Emerson, Victor L., Philadelphia, Pa. Closure for boiler-headers. No. 1,352,254; Sept. 7; v. 278; p. 104.
Emerson, Victor L., Philadelphia, Pa. Safety-damper for oil-stills and the like. No. 1,352,255; Sept. 7; v. 278; p. 104.
Emery, Oscar R., Milwaukee, Wis. Mud and dust shield for automobiles. No. 1,352,798; Sept. 14; v. 278; p. 247.
Emery, Ralph T., Cleveland, Ohio. Trunk-band. No. 1,353,814; Sept. 21; v. 278; p. 506.
Emory, Elmer E., Canonsburg, Pa. Adjustable lifting mechanism. No. 1,352,884; Sept. 14; v. 278; p. 264.
Engel, Henry, and E. Feldman, New York, N. Y. Window and wall cleaner. No. 1,352,122; Sept. 7; v. 278; p. 79.
Enright, John W., New Orleans, La. Stationary chemical-mixing fire-extinguisher system. No. 1,353,466; Sept. 21; v. 278; p. 437.
Ensign, William B. (See Wadsworth, H. E., and Ensign.)
Ensworth, Neil C., Warren, Pa. Piston-ring tool. No. 1,354,034; Sept. 28; v. 278; p. 595.
Epright, Alonso W., and W. H. Grindall, Altoona, Pa. Railway-track scale. No. 1,352,441; Sept. 14; v. 278; p. 175.
Erb, Emil, New York, N. Y. Household article. No. 1,353,386; Sept. 21; v. 278; p. 421.
Erdley, Clarence A., Mifflinburg, Pa. Patch-holder. No. 1,352,799; Sept. 14; v. 278; p. 247.
Erlichman, Robert I., Philadelphia, Pa. Piston packing-ring. No. 1,354,267; Sept. 28; v. 278; p. 647.
Erickson, Erick, Minneapolis, Minn. Bag-holder. No. 1,353,330; Sept. 21; v. 278; p. 410.
Erickson, Frederic W., East Greenwich, R. I. Coupling for metal pipes. No. 1,352,256; Sept. 7; v. 278; p. 104.
Erpenbeck, Theodore C., Chicago, Ill. Buckle. No. 1,353,331; Sept. 21; v. 278; p. 410.
Esda Manufacturing Company. (See Hamilton, Paul H., assignor.)
Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Antenna structure. No. 1,353,735; Sept. 21; v. 278; p. 491.
Espinoza, Romolo J., Rosa, N. Mex. Cultivator. No. 1,353,574; Sept. 21; v. 278; p. 459.
Esmarian, Garabed, and K. Kafafian, Paterson, N. J. Demountable rim. No. 1,353,573; Sept. 21; v. 278; p. 459.
Esturo, Raphael. New York, N. Y. Umbrella. No. 1,353,034; Sept. 14; v. 278; p. 293.
Etchison, Paul L., Musella, Ga. Gear-shift mechanism for mowing-machines. No. 1,352,800; Sept. 14; v. 278; p. 247.
Eubanks, Sayers D., Hillsboro, N. C. Check for pickersticks for looms. No. 1,353,387; Sept. 21; v. 278; p. 421.
Eubanks, Thomas G., and J. B. Bennett, Walla Walla, Wash. Plow-hitch. No. 1,354,288; Sept. 28; v. 278; p. 647.
Eustege, Thomas P., Wellington, New Zealand. Door-retainer. No. 1,353,523; Sept. 21; v. 278; p. 448.
Evans, Carl, Battle Creek, Mich. Ventilator. No. 1,352,257; Sept. 7; v. 278; p. 104.
Evans, David C., assignor to Pioneer Suspender Company, Cincinnati, Ohio. Garter attachment. No. 1,354,096; Sept. 28; v. 278; p. 608.
Evans, Ethel, Wenatchee, Wash. Tree-barking tool. No. 1,352,057; Sept. 7; v. 278; p. 67.
Evans, Frederick J., Barry, Wales. Railway-signal. No. 1,352,801; Sept. 14; v. 278; p. 248.
Evans, John. (See Howitt, H. G., Prichard, and Evans.)
Everett, Ernest C., assignor to R. E. Dietz Company, New York, N. Y. Bail-holding device for lanterns. No. 1,353,991; Sept. 28; v. 278; p. 586.

Everett, John H. D., Boulder, Colo. Ironing-board. No. 1,352,361; Sept. 7; v. 278; p. 124.
Everitt, B. F., Company. (See Elbertz, Frank V., assignor.)
F. O. B. Manufacturing Company. (See Boswell, Fletcher O., assignor.)
Faber, John E., *et al.* (See Davidson, Charles S., assignor.)
Fairfield, Frank M., *et al.* (See Bredsvold, Paul A., assignor.)
Fairhurst, John T., Elizabeth, N. J. Lock for folding partitions. No. 1,351,844; Sept. 7; v. 278; p. 26.
Fairies Manufacturing Co. (See Surface, William E., assignor.)
Fairley, Taliaferro J., assignor to Southern Pine Products Co., Inc., New Orleans, La. Extraction. No. 1,353,035; Sept. 14; v. 278; p. 293.
Fajman, Wilhelm. (See Vesely, Bedrich, and Fajman.)
Fandrey, Gustav A., Cedar Rapids, Iowa. Record-cleaner for sound-reproducing machines. No. 1,354,386; Sept. 28; v. 278; p. 666.
Farnham, Bion B., Kenmore, N. Y. Rotary compressor. No. 1,354,035; Sept. 28; v. 278; p. 595.
Farnsworth, Ralph S., Loda, Ill. Steering attachment for tractors. No. 1,354,036; Sept. 28; v. 278; p. 595.
Farquhar, Moubray G., and A. H. Hill, Birmingham, England. Automatic firearm. No. 1,353,736; Sept. 21; v. 278; p. 492.
Farrel Foundry & Machine Company. (See Bowen, D. R., and Schnuck, assignors.)
Farriss, Charles S., De Land, Fla. Safety-razor. No. 1,354,178; Sept. 28; v. 278; p. 624.
Fassoulis, Peter G., Syracuse, N. Y. Twine-holder. No. 1,354,434; Sept. 28; v. 278; p. 676.
Fauser, Joseph, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Device for making puttees. No. 1,353,823; Sept. 28; v. 278; p. 552.
Faust, Louis F., Comfort, Tex. Water-heaters. No. 1,352,802; Sept. 14; v. 278; p. 248.
Fawcett, Robert, *et al.* (See Prisbrey, George W., assignor.)
Fay, Thomas J., Brooklyn, N. Y., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Internal-combustion engine. No. 1,352,945; Sept. 14; v. 278; p. 275.
Federal Machine Products Co., The. (See Green, Lee B., assignor.)
Federal Telegraph Company. (See Fuller, Leonard F., assignor.)
Fedor, Sandor, Oxford Furnace, N. J. Folding chair. No. 1,352,185; Sept. 7; v. 278; p. 90.
Fehlhaber, William, and C. L. Smith, Highlands, N. J. Fastener for tips of billiard-cues. No. 1,354,387; Sept. 28; v. 278; p. 667.
Feige, Sterling E., Akron, Ohio. Garment. No. 1,354,289; Sept. 28; v. 278; p. 647.
Fels, William, assignor to M. Nydegger, Elizabeth, N. J. Buttless knitting-machine needle. No. 1,354,096; Sept. 28; v. 278; p. 608.
Feldman, Edward. (See Engel, H., and Feldman.)
Felten, Charles H., West Hoboken, N. J. Automobile-signal. No. 1,352,946; Sept. 14; v. 278; p. 276.
Felter, William W., Arkansas City, Kans. Forming clamp for two-piece snow-shoes. No. 1,352,362; Sept. 7; v. 278; p. 124.
Fenton, John A., North Andover, Mass. Stop-motion. No. 1,353,226; Sept. 21; v. 278; p. 390.
Fentress, Henry C., Glen Dean, Ky. Automobile-starter. No. 1,352,803; Sept. 14; v. 278; p. 248.
Ferdon, Guy W., Creskill, N. J. Garbage-can. No. 1,353,127; Sept. 14; v. 278; p. 310.
Fernandez, Genaro. (See Alsina, V. C., and Fernandes.)
Ferris, Joe, Morris, Ill. Surface cultivator. No. 1,353,992; Sept. 28; v. 278; p. 586.
Ferris, Robert, Yankton, S. D. Apparatus for dispensing ice-cream or other material in paper cartons. No. 1,354,246; Sept. 28; v. 278; p. 639.
Fibre Manufacturing Company. (See Frothingham, Samuel T., assignor.)
Fieber, John W., Shaw, Oreg. Hot-air heater. No. 1,352,804; Sept. 14; v. 278; p. 248.
Fietsch, John F., Forest Park, Ill. Device for measuring material for tooth-fillings. No. 1,353,467; Sept. 21; v. 278; p. 437.
Findeisen & Kropf Manufacturing Company. (See Rayfield, Charles L., assignor.)
Findley, William A., San Francisco, Calif. Tool. No. 1,351,947; Sept. 7; v. 278; p. 47.
Finn, Thomas F., North Andover, Mass. Stop mechanism for looms. No. 1,353,824; Sept. 28; v. 278; p. 552.
Finnup, George W. (See Osborn, Frank, assignor.)
Firestone Tire & Rubber Company, The. (See Stevens, William C., assignor.)
Fischer, Howard L. (See Kristofek, F. J., and Fischer.)
Fischer, Howard L. (See Kristofek, Frank J., assignor.)
Fischer, Joseph H., Milwaukee, Wis. Filling apparatus for electrolytic cells. No. 1,353,332; Sept. 21; v. 278; p. 410.
Fish, Lewin B., assignor to American Telephone and Telegraph Company, East Orange, N. J. Anchoring device. No. 1,351,845; Sept. 7; v. 278; p. 26.
Fisher Body Corporation. (See Schmidt, Albert, assignor.)
Fisher, Elmer F., Brookfield, Mass. Self-adjusting valve-lifter. No. 1,353,993; Sept. 28; v. 278; p. 586.
Fisher, Henry F., Los Angeles, Calif. Bow-guide. No. 1,353,036; Sept. 14; v. 278; p. 293.
Fisk, Alfred A., assignor of one-half to A. B. Davis, Pomona, Calif. Door-latch and burglar-alarm. No. 1,353,388; Sept. 21; v. 278; p. 421.
Flake, Jonathan P. B., Newton, Mass. Handling clay products. No. 1,352,947; Sept. 14; v. 278; p. 276.
Flake, Jonathan P. B., Newton, Mass. Electrical clamp. No. 1,352,948; Sept. 14; v. 278; p. 276.
Fitz-Empire Double Pivot Last Company. (See Whipple, Leland B., assignor.)
Fitzgerald, Maurice F., Winsted, assignor to The Fitzgerald Mfg. Co., Torrington, Conn. Automobile-horn. No. 1,353,575; Sept. 21; v. 278; p. 460.
Fitzgerald Mfg. Co., The. (See Fitzgerald, Maurice F., assignor.)
Fitzsimmons, James, Baldwin, N. Y. End-mill. No. 1,354,097; Sept. 28; v. 278; p. 608.
Flanagan, James U., assignor to F. F. Slocomb & Co., Incorporated, Wilmington, Del. Machine for seasoning or finishing leather. No. 1,352,186; Sept. 7; v. 278; p. 90.
Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
Flannery Bolt Company. (See Landgraf, Frederick K., assignor.)
Flatau, Louis S., St. Louis, assignor of one-third to I. A. Hedges, Webster Grove, and one-third to L. A. Benecke, St. Louis, Mo. Spark-plug. No. 1,352,592; Sept. 14; v. 278; p. 205.
Flatman, Ernest C., Detroit, Mich. Toy. No. 1,353,900; Sept. 28; v. 278; p. 567.
Fleischmann, John, Minneapolis, Minn. Hot-water heater. No. 1,351,699; Sept. 7; v. 278; p. 37.
Fleming, Isaac, and H. S. Hill, assignors, by mesne assignments, to J. J. Mathe, Los Angeles, Calif. Machine for cutting vents in automobile-hoods. No. 1,353,524; Sept. 21; v. 278; p. 449.
Flexible Metal Hose Company, The. (See Forth, Charles, assignor.)
Flinn, John R., Johnstown, Pa. Garbage-can. No. 1,351,747; Sept. 7; v. 278; p. 6.
Floresco, Silvio, Berne, Switzerland. Means and method of treating stringed instruments to improve quality of tone. No. 1,352,442; Sept. 14; v. 278; p. 175.
Flynn, James, Soo Junction, Mich. Sheet-music moving and time-keeping apparatus. No. 1,352,303; Sept. 7; v. 278; p. 124.
Foerster, Arthur R. (See Cohen, S., and Foerster.)
Folberth, William M., Cleveland, Ohio. Windshield-cleaner. No. 1,352,504; Sept. 14; v. 278; p. 187.
Folger, Harry S., and T. Ross, assignors to R. D. Swisher Manufacturing Company, Chicago, Ill. Self-inking stamp. No. 1,353,994; Sept. 28; v. 278; p. 586.
Folkush, Martin, Milwaukee, Wis. Boiler. No. 1,352,505; Sept. 14; v. 278; p. 187.
Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-film sheath. No. 1,351 998; Sept. 7; v. 278; p. 57.
Ford Motor Company. (See Galamb, Joseph, assignor.)
Ford, Paul B., assignor to Market Garden Tractor Co., Minneapolis, Minn. Garden-tractor. No. 1,353,156; Sept. 21; v. 278; p. 377.
Forsythe, Clarence E., Milwaukee, Wis. Safety-catch for cuff-links. No. 1,353,525; Sept. 21; v. 278; p. 449.
Forth, Charles, assignor to The Flexible Metal Hose Company, Ottawa, Ontario, Canada. Self-locking attachment for railway switch-handles. No. 1,353,825; Sept. 28; v. 278; p. 552.
Foster, Charles C., Chicago, Ill. Stove. No. 1,353,826; Sept. 28; v. 278; p. 552.
Foster, Harry J., Chicago, Ill. Circle-guide for oxy-acetylene torches. No. 1,351,846; Sept. 7; v. 278; p. 26.
Foster Machine Company. (See Holt, F. A., and Kershaw, assignors.)
Fowler, Charles, Tomkins Cove, N. Y. Potato picker or gatherer. No. 1,351,948; Sept. 7; v. 278; p. 47.
Fowler, Edward E., Winthrop, assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,352,506; Sept. 14; v. 278; p. 188.
Fowler, Edward E., Winthrop, assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,352,507; Sept. 14; v. 278; p. 188.
Fox, Francis C. C., Rawtelle, Calif. Electric motor. No. 1,354,388; Sept. 28; v. 278; p. 667.
Fox, George P., *et al.* (See Bear, Claude A., assignor.)
Frank, Harry S., St. Louis, Mo. Making piston-rings. No. 1,353,227; Sept. 21; v. 278; p. 390.
Frank, Harry S., St. Louis, Mo. Manufacturing piston-rings. No. 1,353,576; Sept. 21; v. 278; p. 460.
Franke, Frank, Cincinnati, Ohio. Valve. No. 1,353,037; Sept. 14; v. 278; p. 294.
Frankeberger, Albert L., Bloomington, Ill., assignor to Illinois Specialty Manufacturing Company, McLean county, Ill. Banana heater and ripener. (Reissue.) No. 14,948; Sept. 14; v. 278; p. 312.
Frankis, Ernest E., Helston, England, assignor to Radio Corporation of America. Receiver of wireless signals. No. 1,354,290; Sept. 28; v. 278; p. 647.
Franklin, H. H., Manufacturing Company. (See Holmes, Arthur, assignor.)
Frappart, Henry, and J. B. Bouvier, Kincaid, Ill. Rail-clamp. No. 1,353,577; Sept. 21; v. 278; p. 460.

Fraser, James, assignor to Speakman Company, Wilmington, Del. Combined mixing and delivery valve system. No. 1,354,291; Sept. 28; v. 278; p. 647.
Fred Goat Company. (See Mortensen, Jens, assignor.)
Fredrickson, Edward C., Chetek, Wis. Hay-handling appliance. No. 1,354,247; Sept. 28; v. 278; p. 639.
Freedman, Hyman, Chicago, Ill. Spring structure. No. 1,351,748; Sept. 7; v. 278; p. 7.
Freedman, Isadore. (See Natkiel, H., and Freedman.)
Freels, Ota, Spokane, Wash. Automobile-signal. No. 1,353,950; Sept. 28; v. 278; p. 577.
Freeman, Charles F., *et al.*, trustees. (See Freeman, Louis G., assignor.)
Freeman-Daughaday Company. (See Matteson, Frederick R., assignor.)
Freeman, Louis G., assignor to L. G. Freeman and C. F. Freeman, trustees, Cincinnati, Ohio. Heel-breast-trimming machine. No. 1,354,037; Sept. 28; v. 278; p. 595.
Freeman, Russell M., Detroit, Mich. Convertible vehicle-body. No. 1,353,157; Sept. 21; v. 278; p. 377.
French, Albert F., Detroit, Mich. Filler composition. No. 1,352,741; Sept. 14; v. 278; p. 235.
French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)
Frengle, Fred, Cotati, Calif. Rotary sheet-metal cutter. No. 1,353,526; Sept. 21; v. 278; p. 449.
Freundt, Louis J., Chicago, Ill., assignor to American Can Company, New York, N. Y. Shipping and dispensing container. No. 1,351,900; Sept. 7; v. 278; p. 38.
Fried Krupp Aktiengesellschaft. (See Schön, Ludwig, assignor.)
Friedman, Charles. (See Rudolph, Raymond H., assignor.)
Fries, Edward A., assignor to Randall & Fries, Boston, Mass. Machine for turning plastic material. No. 1,352,443; Sept. 14; v. 278; p. 175.
Fritz, Louis, Los Angeles, Calif. Rail-fastening device. No. 1,354,292; Sept. 28; v. 278; p. 648.
Frost, Elmer, Muskegon Heights, Mich. Lubricator. No. 1,353,951; Sept. 28; v. 278; p. 577.
Frothingham, Samuel T., Allston, assignor to Fibre Manufacturing Company, Boston, Mass. Water-closet seat. No. 1,352,058; Sept. 7; v. 278; p. 67.
Ftacek, Joseph and S., Streator, Ill. Sewing-pliers. No. 1,352,508; Sept. 14; v. 278; p. 188.
Ftacek, Steve. (See Ftacek, Joseph and S.)
Fuchs, Ernest, Paris, assignor to L. Renault, Billancourt, France. Forging valves and similar articles. No. 1,351,949; Sept. 7; v. 278; p. 47.
Fuhrmann, Warren, Westfield, N. J., assignor, by mesne assignments, to Wilkinson Brothers and Company, Incorporated, New York, N. Y. Ribbon-shifting means for calculators. No. 1,352,503; Sept. 14; v. 278; p. 205.
Fukuda, Kinsuke, Tokyo, Japan. Elastic tire. No. 1,352,885; Sept. 14; v. 278; p. 264.
Fulcher Pulp Bottle Company, The. (See Fulcher, William H., assignor.)
Fulcher, William H., assignor to The Fulcher Pulp Bottle Company, Oakland, Calif. Machine for forming pulp hollow ware. No. 1,353,578; Sept. 21; v. 278; p. 460.
Fullenlove, McClellan C., assignor to Perfect Projection Shutter Company, Inc., Louisville, Ky. Motion-picture shutter. No. 1,353,527; Sept. 21; v. 278; p. 449.
Fuller, Earl F., *et al.* (See Akin, Delbert A., assignor.)
Fuller, Eugene, Providence, R. I. Bed-bottom. No. 1,353,579; Sept. 21; v. 278; p. 460.
Fuller, Fred E., Portland, Oreg. Commutator-grinder. No. 1,352,805; Sept. 14; v. 278; p. 249.
Fuller, Leonard F., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,352,059; Sept. 7; v. 278; p. 67.
Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,352,886; Sept. 14; v. 278; p. 265.
Fullmer, John H., Buffalo, N. Y. Multiple-tool holder. No. 1,352,949; Sept. 14; v. 278; p. 276.
Fulton, Le Roy M., Chicago, Ill. Reel. No. 1,353,901; Sept. 28; v. 278; p. 568.
Furbish, Charles L., Amesbury, Mass. Stem winding and setting mechanism for watches. No. 1,354,179; Sept. 28; v. 278; p. 624.
Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Micro-drive hydraulic elevator. No. 1,352,742; Sept. 14; v. 278; p. 235.
Gaeng, Anna E., Bloomingdale, N. Y. Yarn-holder. No. 1,353,528; Sept. 21; v. 278; p. 449.
Gail, John F., assignor, by mesne assignments, to Simmons Company, Kenosha, Wis. Furniture construction. No. 1,352,594; Sept. 14; v. 278; p. 206.
Galamb, Joseph, assignor to Ford Motor Company, Detroit, Mich. Electric switch. No. 1,353,580; Sept. 21; v. 278; p. 460.
Galco Maskinfabriks Aktiebolag. (See Granstedt, Karl E. A., assignor.)
Galeski, Joseph S., Richmond, Va. Spectacle nose-bridge. No. 1,352,887; Sept. 14; v. 278; p. 265.
Galeski, Kasimirz, Harrah, Okla. Ship-salvage device. No. 1,352,950; Sept. 14; v. 278; p. 276.
Gallagher, Richard D., Jr., New York, N. Y. Friction draft-gear for railway-cars. No. 1,353,529; Sept. 21; v. 278; p. 450.
Gallagher, Stephen H., Syracuse, N. Y. Knife-sharpener. No. 1,352,888; Sept. 14; v. 278; p. 265.
Gallo, Galileo, and F. Villarboito, Vercelli, Italy. Switch. No. 1,352,889; Sept. 14; v. 278; p. 265.
Gamewell Fire Alarm Telegraph Company, The. (See Cole, Frederick W., assignor.)
Gammeter, John B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-mandrel and producing same. No. 1,353,158; Sept. 21; v. 278; p. 377.
Gamse, H., & Bro. (See Brock, Addison W., assignor.
Ganss, William H., Toledo, Ohio. Lock. No. 1,352,890; Sept. 14; v. 278; p. 265.
Gardelis, August, Princeton, N. J. Swimming-boat. No. 1,354,435; Sept. 28; v. 278; p. 676.
Gardner, James P., Chicago, Ill. Machine for treating limbs. No. 1,354,248; Sept. 28; v. 278; p. 639.
Gardner, William A. (See Webb, B., and Gardner.)
Gasser, Joseph, and A. H. Barber, Trenton, N. J. Raising and lowering device. No. 1,353,737; Sept. 21; v. 278; p. 492.
Gaston, Ralph M., Chicago, Ill. Internal-combustion engine. No. 1,351,950; Sept. 7; v. 278; p. 48.
Gates Rubber Company, The. (See Yelm, Charles W., assignor.)
Gates, Sylvester A., Detroit, Mich. Automobile-curtain. No. 1,353,468; Sept. 21; v. 278; p. 437.
Gaunt, Charles F., Birmingham, England. Naval, military, and other metallic badges. No. 1,353,228; Sept. 21; v. 278; p. 391.
Gavlak, Joseph G., Monongahela, Pa. Toy vehicle. No. 1,353,581; Sept. 21; v. 278; p. 461.
Gay, Robert I. (See Abrams, W. B., and Gay.)
Gazda, Adolph A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,354,180; Sept. 28; v. 278; p. 625.
Gazda, Adolph A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. No. 1,354,181; Sept. 28; v. 278; p. 625.
Gearhart, Clyde M. (See Montuori, Felix, assignor.)
Geary, Henry H., Fostoria, Ohio. Salesman's portable office. No. 1,353,530; Sept. 21; v. 278; p. 450.
Gemsey, Julius O., Montevideo, Minn. Music-leaf turner. No. 1,353,582; Sept. 21; v. 278; p. 461.
Genebach, George J., assignor to United Steel and Wire Co., Battle Creek, Mich. Poultry-crate. No. 1,352,444; Sept. 14; v. 278; p. 175.
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General Chain Company. (See Payette, Joseph A., assignor.)
General Electric Company. (See Berg, Ernst J., assignor.)
General Electric Company. (See Bergman, Sven R., assignor.)
General Electric Company. (See Case, Frank E., assignor.)
General Electric Company. (See Crocker, Arthur T., assignor.)
General Electric Company. (See Crocker, Clarence T., assignor.)
General Electric Company. (See Dickinson, E. D., and Wilkinson, assignors.)
General Electric Company. (See Doran, John H., assignor.)
General Electric Company. (See Dwyer, William O., assignor.)
General Electric Company. (See Heisler, Charles L., assignor.)
General Electric Company. (See Junggren, Oscar, assignor.)
General Electric Company. (See Lord, Henry C., assignor.)
General Electric Company. (See Murphy, Edwin J., assignor.)
General Electric Company. (See Otis, Albert N., assignor.)
General Electric Company. (See Steenstrup, Christian, assignor.)
General Electric Company. (See Wagner, R. E., and Laird, assignors.)
General Electric Company. (See Wilson, Leonard, assignor.)
General Electric Company. (See Winter, Fred H., assignor.)
General Fireproofing Company, The. (See Coryell, William C., assignor.)
General Motor Corporation. (See Hamilton, Alexander C., assignor.)
General Railway Signal Company. (See Dodgson, Frank L., assignor.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
George, Frank L., Los Angeles, Calif. Damper for grand-piano actions. No. 1,353,643; Sept. 21; v. 278; p. 474.
George, Frank L., Los Angeles, Calif. Damper for upright-piano actions. No. 1,353,644; Sept. 21; v. 278; p. 474.
George, Frank L., Los Angeles, Calif. Pianissimo device for upright-piano actions. No. 1,353,645; Sept. 21; v. 278; p. 474.
George, Frank L., Los Angeles, Calif. Touch-regulator for grand-piano actions. No. 1,353,646; Sept. 21; v. 278; p. 474.

George, Frank L., Los Angeles, Calif. Action for grand pianos. No. 1,353,647. Sept. 21; v. 278; p. 475.
George, Frank L., Los Angeles, Calif. Action-bracket for grand pianos. No. 1,353,648; Sept. 21; v. 278; p. 475.
George, Frank L., Los Angeles, Calif. Combination jack-spring and touch-regulator for upright-piano actions. No. 1,353,649; Sept. 21; v. 278; p. 475.
George, William C., and F. N. Nofsger, Humboldt, Nebr. Vehicle-hoisting device. No. 1,354,038; Sept. 28; v. 278; p. 596.
Georgeson, Frank, Red Granite, Wis. Hayrack. No. 1,353,229; Sept. 21; v. 278; p. 391.
Gerau, George B., Miami, Fla., assignor of one-half to S. L. Smith, Williamsburg, Ky. Internal-combustion engine. No. 1,352,187; Sept. 7; v. 278; p. 90.
Gerhart, Jacob G., Fredericksburg, Pa. Air-pump. No. 1,351,847; Sept. 7; v. 278; p. 27.
Gernsback, Hugo, New York, N. Y. Electromagnetic sounding device. No. 1,354,389; Sept. 28; v. 278; p. 667.
Gertz, Richard W., Brookline, Mass. Piano. No. 1,353,903; Sept. 28; v. 278; p. 568.
Gertz, Richard W., Brookline, Mass. Agraffe. No. 1,353,904; Sept. 28; v. 278; p. 568.
Gertz, Richard W., Brookline, Mass. Piano-action. No. 1,353,905; Sept. 28; v. 278; p. 568.
Gervais, Wainwright B., assignor to Variety Manufacturing Company, Chicago, Ill. Counterbalanced fire-shutter. No. 1,353,333; Sept. 21; v. 278; p. 411.
Geslani, Telesforo C., Olongapo, Zamb, Philippine Islands. Automatic lighter. No. 1,353,334; Sept. 21; v. 278; p. 411.
Getz, Benjamin E., assignor to A. F. Meyer Mfg. Co., Morton, Ill. Grain-elevator. No. 1,353,335; Sept. 21; v. 278; p. 411.
Getz, Benjamin E., assignor to A. F. Meyer Mfg. Co., Morton, Ill. Elevator. No. 1,353,336; Sept. 21; v. 278; p. 411.
Giangiopo, Giuseppe, Cleveland, Ohio. Gunnery-training apparatus. No. 1,354,182; Sept. 28; v. 278; p. 625.
Gibby, Samuel, Boston, Mass. Sign. No. 1,352,661; Sept. 14; v. 278; p. 219.
Gibson, Arthur H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Centrifugal brake for power-trucks. No. 1,352,060; Sept. 7; v. 278; p. 67.
Gibson, Edward T., Brooklyn, N. Y. Game-board. No. 1,352,510; Sept. 14; v. 278; p. 188.
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Gilbert, Charles E., North Chichester, N. H. Chuck. No. 1,352,951; Sept. 14; v. 278; p. 277.
Gilbert, William L., Clock Company. (See Hyde, Charles H., assignor.)
Gilbertson, Otto M., La Crosse, Wis. Railway-mail-delivering apparatus. No. 1,353,738; Sept. 21; v. 278; p. 492.
Giles, Edgar B., Los Angeles, Calif. Trestle-joint. No. 1,352,188; Sept. 7; v. 278; p. 91.
Gillespie, Arthur W., Chicago, Ill. Fire-door-operating mechanism. No. 1,354,183; Sept. 28; v. 278; p. 625.
Gillespie, Thomas J., Homestead, assignor of one-half to H. J. Trimble, Pittsburgh, Pa. Collar-fastener. No. 1,353,739; Sept. 21; v. 278; p. 493.
Gillespie, William G., Chicago, Ill. Fuel-saver. No. 1,353,740; Sept. 21; v. 278; p. 493.
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Gillette Safety Razor Company. (See Parker, Riley H., assignor.)
Gilman, Frank L., and W. M. Baum, Los Angeles, Calif. Current-motor. No. 1,353,906; Sept. 28; v. 278; p. 568.
Gilmore, Samuel R., Seattle, Wash. Apparatus for drawing together ship-plates. No. 1,354,390; Sept. 28; v. 278; p. 667.
Gingras, Edward F., Buffalo, N. Y. Apparatus for manufacturing belting. No. 1,351,901; Sept. 7; v. 278; p. 38.
Ginn, Percy E. (See Johnson, Harry L., assignor.)
Ginn, Percy E. (See Johnson, H. L., and Raymer, assignors.)
Glanz, Joseph, Hartford, Conn. Repair of bicycle-pedals. No. 1,352,445; Sept. 14; v. 278; p. 175.
Glanz, Joseph, Hartford, Conn. Crank-pedal. No. 1,352,446; Sept. 14; v. 278; p. 176.
Glasser, Maurice M., Charleston, S. C. Oscillator for electric fans. No. 1,354,098; Sept. 28; v. 278; p. 608.
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Glaze, Herbert L. (See McFate, J. N., and Glaze, assignors.)
Goddard, Clair E., Omaha, Nebr. Recording apparatus. No. 1,351,902; Sept. 7; v. 278; p. 38.
Goddard, John W., and A. E. Jerram, Leicester, England, assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-sewing machine. No. 1,353,827; Sept. 28; v. 278; p. 553.
Goddard, Stewart, Toronto, Ontario, Canada. Tire-chain connection. No. 1,353,828; Sept. 28; v. 278; p. 553.
Goewey, Philip W. (See Reed, Walter C., assignor.)
Goffaux, Felix L., Arnold, Pa. Glass-drawing machine. No. 1,354,391; Sept. 28; v. 278; p. 667.
Gold, Michael. (See Schwarzenbach, A. J., and Tucker, assignor.)
Goldberg, Jacob, assignor to The Goldberg Padding Machine Company, Cincinnati, Ohio. Cloth-feed mechanism for blindstitch sewing-machines. No. 1,352,061; Sept. 7; v. 278; p. 67.
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Goldman, Samuel S., St. Louis, Mo. Washing-machine. No. 1,353,829; Sept. 28; v. 278; p. 553.
Goldstone, Morris, Brooklyn, N. Y. Window-cleaner. No. 1,353,741; Sept. 21; v. 278; p. 493.
Gonsky, Peter R., Chicago, Ill. Combination phonograph and lamp. No. 1,353,469; Sept. 21; v. 278; p. 438.
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Goodwin, Grover C. (See Goodwin, James D., and G. C.)
Goodwin, Hall, Chicago, Ill. Fire-prevention device for motion-picture apparatus. No. 1,353,389; Sept. 21; v. 278; p. 422.
Goodwin, James D. and G. C., Richmond, Va. Liquid-fuel burner. No. 1,351,848; Sept. 7; v. 278; p. 27.
Gordon, Benjamin, New York, N. Y. Tag. No. 1,353,952; Sept. 28; v. 278; p. 578.
Gordon, Thomas, Philadelphia, Pa. Curling hair or similar fibrous material. No. 1,353,337; Sept. 21; v. 278; p. 412.
Gore, Daniel W., Buffalo, N. Y. Traffic-signal. No. 1,354,249; Sept. 28; v. 278; p. 639.
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Gorton, Robert, deceased; C. W. Noyes, administrator, Brookline, Mass. Making garters. No. 1,352,258; Sept. 7; v. 278; p. 105.
Gould Coupler Company. (See Craveling, John L., assignor.)
Gove, Edward H., Biddeford, Me. Tank-siphon. No. 1,353,230; Sept. 21; v. 278; p. 391.
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Government of the United States. (See Miller, Justin McC., assignor.)
Government of the United States. (See Wentworth, Harry A., assignor.)
Gracey, James G., assignor of one-fourth to Emanuel Longmeyer, St. Louis, Mo. Wind-motor. No. 1,352,952; Sept. 14; v. 278; p. 277.
Gracey, A. L. (See Dudley, Thomas J., assignor.)
Graf, Fritz, Sr., Collingdale, Pa. Fiber-dressing machine. No. 1,351,749; Sept. 7; v. 278; p. 7.
Graham, Edward A., Brockley, London, England. Electrical transmitting and indicating apparatus. No. 1,354,099; Sept. 28; v. 278; p. 609.
Graham, Joseph B., Evansville, Ind., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Means for and method of flowing glass. No. 1,353,907; Sept. 28; v. 278; p. 569.
Graham, Joseph B., Evansville, Ind., assignor to The Owen Bottle Machine Company, Toledo, Ohio. Apparatus for gathering molten glass. No. 1,353,953; Sept. 28; v. 278; p. 578.
Granstedt, Karl E. A., assignor to Galco Maskinfabriks Aktiebolag, Stockholm, Sweden. Belt-driving. No. 1,352,511; Sept. 14; v. 278; p. 189.
Grant, Frank A., Cortland, N. Y. Railway-gate-control mechanism. No. 1,353,038; Sept. 14; v. 278; p. 294.
Grant, Harry L., and G. Haddow, Tamaqua, assignors to Atlas Powder Company, Philadelphia, Pa. Electric detonator. No. 1,354,100; Sept. 28; v. 278; p. 609.
Grant, Josceline C. H., Chania Bridge, British East Africa. Spring-fitting for vehicle-axles. No. 1,353,470; Sept. 21; v. 278; p. 438.
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Gravatt, Charles M., Port Royal, Va. Marking device. No. 1,353,742; Sept. 21; v. 278; p. 493.
Gravell, James H., Elkins Park, Pa., assignor to Thomson Spot Welder Company, Boston, Mass. Slug-welding. No. 1,3454,293; Sept. 28; v. 278; p. 648.
Graves, George W., assignor to The Graves Supply Company, Cincinnati, Ohio. Stove. No. 1,353,743; Sept. 21; v. 278; p. 493.
Graves, Inez, Seattle, Wash. Ironing-board. No. 1,352,259; Sept. 7; v. 278; p. 105.
Graves, Robert W., Elizabeth, N. J., and S. M. Holt, Washington, D. C., said Holt assignor to said Graves. Saw. No. 1,352,512; Sept. 14; v. 278; p. 189.
Graves Supply Company, The. (See Graves, George W., assignor.)
Gray, James A., assignor to American Can Company, San Francisco, Calif. Multiple-disk-cutting apparatus. No. 1,351,951; Sept. 7; v. 278; p. 48.
Gray Telephone Pay Station Company, The, *et al.* (See Long, George A., assignor.)
Graziano, Joseph, Newburgh, N. Y. Temperature-regulator. No. 1,352,364; Sept. 7; v. 278; p. 125.
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Green, Charles F., Defiance, assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-feed system. No. 1,352,123; Sept. 7; v. 278; p. 79.
Green, H. G. (See White, Joseph J., Jr., assignor.)
Green, Lee B., Detroit, Mich., assignor to The Federal Machine Products Co., Cleveland, Ohio. Ignition-trouble finder. No. 1,352,662; Sept. 14; v. 278; p. 219.
Green, Samuel G., U. S. Army. Electrically-controlled mechanism for firearms. No. 1,352,891; Sept. 14; v. 278; p. 265.
Green, Walter R., Chicago, Ill. Tire-carrier. No. 1,352,595; Sept. 14; v. 278; p. 206.

Green, Walter R., Chicago, Ill. Mud-guard brace. No. 1,352,596; Sept. 14; v. 278; p. 206.

Green, William R., Los Angeles, Calif. Safety-stirrup. No. 1,352,406; Sept. 7; v. 278; p. 182.

Greenawalt, William E., Denver, Colo. Electrolytic apparatus. No. 1,353,995; Sept. 28; v. 278; p. 587.

Greene, Morgan A., Rupert, Idaho. Resilient tire. No. 1,354,392; Sept. 28; v. 278; p. 668.

Greenfield, Leon, New York, N. Y. Anatomical bridge-articulator. No. 1,353,039; Sept. 14; v. 278; p. 394.

Gregware, Harvey L., Beverly, Mass., assignor to F. M. Page, Lynnfield, Mass. Tape-moistening machine. No. 1,352,892; Sept. 14; v. 278; p. 266.

Greig, George D., Peoria, Ill. Watch-stem. No. 1,353,040; Sept. 14; v. 278; p. 294.

Greten, Auguste C., and F. Musman, Luxemburg, Luxemburg. Four-stroke-cycle internal-combustion-engine. No. 1,354,101; Sept. 28; v. 278; p. 609.

Grieshamer, John, Jacksonville, Fla. Automobile-light dimmer. No. 1,353,231; Sept. 21; v. 278; p. 391.

Griffin, W. H., and O. C. Hartsough, Canton, Ohio. Convertible interior of automobiles. No. 1,353,232; Sept. 21; v. 278; p. 391.

Griffith, Raymond W., Milwaukee, Wis. Combination-lock. No. 1,353,583; Sept. 21; v. 278; p. 461.

Grigas, Anthony, and M., Worcester, Mass. Paper-hanging apparatus. No. 1,354,184; Sept. 28; v. 278; p. 625.

Grigas, Mike. (See Grigas, Anthony and M.)

Griggs, John O., Youngstown, Ohio. Open-hearth furnace. No. 1,353,830; Sept. 28; v. 278; p. 554.

Grikscheit, William, Detroit, Mich. Priming-cup. No. 1,353,584; Sept. 21; v. 278; p. 461.

Grindall, William H. (See Epright, A. W., and Grindall.)

Groswold, Fred E., Eau Claire, Wis. Humidifying-radiator unit. No. 1,353,744; Sept. 21; v. 278; p. 494.

Griswold, Leslie W., Des Moines, Iowa. Air-control device for engines. No. 1,352,509; Sept. 14; v. 278; p. 188.

Gritte, Joseph. (See Camell, R., Cochet, and Gritte.)

Grönroos, Jakob, Fairport Harbor, Ohio. Antiskid device for automobiles. No. 1,351,750; Sept. 7; v. 278; p. 7.

Groot, Charles W., Rochester, N. Y. Folding gasolene stove with utensils. No. 1,354,393; Sept. 28; v. 278; p. 668.

Gros, Louis F., Paris, France. Machine for cutting out and stamping out. No. 1,353,831; Sept. 28; v. 278; p. 554.

Grotz, Charles A., Chicago, Ill. Transmission mechanism. No. 1,353,390; Sept. 21; v. 278; p. 422.

Groves, Barnett W., St. Petersburg, Fla. Combined pail and sprinkler. No. 1,353,650; Sept. 21; v. 278; p. 475.

Gruenfeld, Julius J., Jr., Chicago, Ill. Sofa-bed. No. 1,352,806; Sept. 14; v. 278; p. 249.

Grumme, Frederick J., assignor, by mesne assignments, to Wirebound Patents Company, Indianapolis, Ind. Wirebound-box-blank machine. (Reissue.) No. 14,951; Sept. 28; v. 278; p. 681.

Grundy, John R., Philadelphia, Pa. Flexible coupling. No. 1,352,953; Sept. 14; v. 278; p. 277.

Guarantee Visible Measure Sales Company. (See Townsend, William S., assignor.)

Guertler, George J., Cincinnati, Ohio. Flytrap. No. 1,353,233; Sept. 21; v. 278; p. 392.

Guice, William O., Seattle, Wash. Portable varnish-drying oven. No. 1,352,893; Sept. 14; v. 278; p. 266.

Guinand, Gustavius, Los Angeles, Calif. Valve-spring lifter. No. 1,352,407; Sept. 7; v. 278; p. 132.

Gunn, Fred W., Dedham, Mass. Hose-clamping tool. No. 1,353,338; Sept. 21; v. 278; p. 412.

Gunther, George, Seattle, Wash. Nonskid device for motor-vehicles. No. 1,352,260; Sept. 7; v. 278; p. 105.

Gustaffson, Art, Moline, Ill. Folding umbrella. No. 1,353,234; Sept. 21; v. 278; p. 392.

Gustin, William M., Hingham, assignor of one-half to E. H. Jennison, Weston, Mass. Cloth-folding apparatus. No. 1,354,294; Sept. 28; v. 278; p. 648.

Guthrie, Edwin. (See Whitten, Wilmot W., assignor.)

Guy, Raymond M., Wichita, Kans. Automobile-lock. No. 1,354,102; Sept. 28; v. 278; p. 609.

Guyer, Joseph A., Marion, Ind. Electric iron. No. 1,353,471; Sept. 21; v. 278; p. 438.

Guynn, John M., East Newport, Ark. Door-stop. No. 1,352,456; Sept. 14; v. 278; p. 178.

Haase, Arnold, San Francisco, Calif. Foundry practice. No. 1,353,472; Sept. 21; v. 278; p. 438.

Hachmann, Frederick, assignor of one-half to H. Stifel, St. Louis, Mo., one-sixteenth to P. E. Moody and one-sixteenth to C. R. Watson, Detroit, Mich., one-eighth to D. M. Hutchinson, Ferguson, Mo., and one-sixteenth to H. A. Wright, Detroit, Mich. Piston. No. 1,353,041; Sept. 14; v. 278; p. 294.

Haddow, George. (See Grant, H. L., and Haddow.)

Haeberlein, Max, Mountain Lakes, N. J. Fly-ball governor. No. 1,352,189; Sept. 7; v. 278; p. 91.

Hafner, Charles A. D., Des Moines, Iowa. Fishpole-support. No. 1,352,663; Sept. 14; v. 278; p. 219.

Hagen, Lars J., Portland, Oreg. Ship construction. No. 1,353,235; Sept. 21; v. 278; p. 392.

Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Main-shaft drive. No. 1,352,124; Sept. 7; v. 278; p. 79.

Haglund, Otto E., Medina, N. D. Motor-vehicle propelling attachment. No. 1,354,103; Sept. 28; v. 278; p. 610.

Haiden, Richard. (See Van Brocklen, M. E., and Haiden.)

Haines, Joseph, Lawton, Mich. Planter. No. 1,354,039; Sept. 28; v. 278; p. 596.

Hale, Frank A., assignor to Hale Specialty Company, Chicago, Ill. Holder for pad-calendars. No. 1,353,832; Sept. 28; v. 278; p. 554.

Hale Specialty Company. (See Hale, Frank A., assignor.)

Haley, George S., Dubuque, Iowa, assignor to H. Mueller Manufacturing Co., Decatur, Ill. Tapping-machine. No. 1,353,833; Sept. 28; v. 278; p. 554.

Hall, A. J., and C. C. Whittaker, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,352,448; Sept. 14; v. 278; p. 176.

Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,352,447; Sept. 14; v. 278; p. 176.

Hall, Harry M., Willcox, Ariz. Pump. No. 1,353,391; Sept. 21; v. 278; p. 422.

Hall, Hugh A., Philadelphia, Pa. Automatic restaurant and vending mechanism therefor. No. 1,353,996; Sept. 28; v. 278; p. 587.

Hall, Stewart E., Akron, assignor of one-third to E. R. Sloan, Maumee, and one-third to E. H. Workinger, Akron, Ohio. Battery-box-forming machine. No. 1,353,339; Sept. 21; v. 278; p. 412.

Hall, Thomas, Harrisburg, Pa. Fluid-pressure motor. No. 1,352,743; Sept. 14; v. 278; p. 235.

Hall, William G. (See Beyer, H. E., and Hall.)

Halley, John R., Nashville, Iowa. Coin and stamp box. No. 1,353,585; Sept. 21; v. 278; p. 461.

Halstead, Stanley M. (See Vaughan, P. E., and Halstead.)

Halton, William. (See Power, Henry, assignor.)

Hamel Shoe Machinery Company. (See Laughton, R. E., and Barnes, assignors.)

Hamer, John H., Warsaw, Ohio. Shock-absorber. No. 1,352,955; Sept. 14; v. 278; p. 277.

Hamilton, Alexander C., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Radiator for motor-vehicles. No. 1,352,190; Sept. 7; v. 278; p. 91.

Hamilton, Clayton R. (See Hamilton, Herbert E., and C. R.)

Hamilton, H. E., and C. R., Yale, Iowa. Stock-feeding device. No. 1,352,513; Sept. 14; v. 278; p. 189.

Hamilton, Paul H., assignor to Esda Manufacturing Company, New York, N. Y. Gas-burner for water-heaters. No. 1,354,295; Sept. 28; v. 278; p. 648.

Hamm, William S., assignor to The Adams & Westlake Company, Hubbard Woods, Ill. Sash-latch. No. 1,353,834; Sept. 28; v. 278; p. 554.

Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Band catsup-cap. No. 1,353,801; Sept. 21; v. 278; p. 504.

Hammermann, Fred, New York, N. Y. Anchor-bolt. No. 1,353,159; Sept. 21; v. 278; p. 377.

Hammon, James H., Vincennes, Ind. Spectacle-lens. No. 1,354,040; Sept. 28; v. 278; p. 596.

Hammond, Le Roy C. (See Bell, George A., assignor.)

Hampton, James, Southampton, assignor of one-half to John I. Thornycroft and Company Limited, London, England. Means for holding and releasing depth charges, mines, and the like on boats or ships. No. 1,353,652; Sept. 21; v. 278; p. 476.

Handley, George, Palmers Green, assignor to P. W. Bullock, London, England. Rotary pump for pumping liquids. No. 1,353,745; Sept. 21; v. 278; p. 494.

Hansen, Andreas, Cumberland Mills, Me. Wire-stretcher. No. 1,353,835; Sept. 28; v. 278; p. 555.

Hansen, Viggo N., Winnetka, assignor to Standex Manufacturing Corporation, Chicago, Ill. Engine-controlled lubricating system. No. 1,352,954; Sept. 14; v. 278; p. 277.

Hanson, Andrew C., Racine, Wis. Rotary safety-razor. No. 1,353,160; Sept. 21; v. 278; p. 377.

Hanson, H. L., Butte, Mont., and M. B. Sawyer, Edmonds, Wash. Burning tree-stumps. No. 1,352,261; Sept. 7; v. 278; p. 105.

Hanson, T. Sophus. (See Nelson, Henry, assignor.)

Hanson & Van Winkle Company, The. (See Todd, E. N., and King, assignors.)

Hara, Fusataro, San Francisco, Calif. Ice-cream-delivery machine. No. 1,351,903; Sept. 7; v. 278; p. 38.

Harberson, Edward M., Los Angeles, Calif. Yoke construction for leaf-springs. No. 1,353,746; Sept. 21; v. 278; p. 494.

Harbour, Thomas P., and B. B. Brinnon, Bellefontaine, Ohio. Commutator. No. 1,353,392; Sept. 21; v. 278; p. 422.

Hardeman, William E. (See Macbeth, C., and Hardeman.)

Harder, Harry E. (See Newsom, J. N., Harder, and Leschen.)

Harding, Abner C. (See Kennicott, Cass L., and Kemble, assignors.)

Harding, Henry O., Minneapolis, Minn. Conveying and elevating apparatus. No. 1,352,262; Sept. 7; v. 278; p. 105.

Harding, Henry O., assignor to Washburn Crosby Company, Minneapolis, Minn., Conveyer. No. 1,352,263; Sept. 7; v. 278; p. 105.

Hardinge, Harlowe. (See Hardinge, Harry W., and H.)

Hardinge, Harry W., and H., New York, N. Y. Telethermoscope. No. 1,352,956; Sept. 14; v. 278; p. 278.

Harle, William. (See Sparrow, J. A., and Harle.)

Harman, Walter A. (See Ricketts, Lawrence M., assignor.)

Harmon, Frank W. (See Broadgate, William C., assignor.)

Harnsberger, John H., Catlett, Va. Rail-joint-coupling device. No. 1,353,653; Sept. 21; v. 278; p. 476.

Harp, Robert T., Gatliff, Ky. Horse-detacher. No. 1,354,186; Sept. 28; v. 278; p. 626.

Harrah, Hillis A., Kansas City, Mo., assignor of one-half to L. T. Leimbach, Rosedale, Kans. Driving-gearing for tractors. No. 1,352,125; Sept. 7; v. 278; p. 79.

Harris, David H., Kalamazoo, Mich. Truck-body. No. 1,354,187; Sept. 28; v. 278; p. 626.

Harris, Edward, Los Angeles, Calif. Retread-vulcanizer. No. 1,353,042; Sept. 14; v. 278; p. 295.

Harris, Varian M., assignor, by mesne assignments, to Popular Reflex Camera Corporation, Chicago, Ill. Reflex camera. No. 1,352,449; Sept. 14; v. 278; p. 176.

Harrison, Francis, London, England. Removing film from used metallic-filament electric lamps. No. 1,353,654; Sept. 21; v. 278; p. 476.

Harrison, George, Jr., assignor to The Bassick Company, Bridgeport, Conn. Lock for automobile-doors. No. 1,354,104; Sept. 28; v. 278; p. 610.

Harrison, Henry C., assignor to Western Electric Company, Incorporated, New York, N. Y. Receiver. No. 1,352,597; Sept. 14; v. 278; p. 206.

Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Means for feeding articles in stacked relation. No. 1,352,744; Sept. 14; v. 278; p. 236.

Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Means for feeding articles in stacked relation. No. 1,352,745; Sept. 14; v. 278; p. 236.

Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism. No. 1,352,746; Sept. 14; v. 278; p. 236.

Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism. No. 1,352,747; Sept. 14; v. 278; p. 236.

Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism. No. 1,352,748; Sept. 14; v. 278; p. 236.

Hart, Hubert C., Unionville, Conn. Polishing and buffing metal articles. No. 1,352,598; Sept. 14; v. 278; p. 206.

Hart, Walter V., assignor to S. F. Williams, Jacksonville, Fla. Box-press. No. 1,352,749; Sept. 14; v. 278; p. 237.

Hartman, Charles, Sandwich, Ill., assignor to Sandwich Manufacturing Company. Hay-loader. No. 1,353,586; Sept. 21; v. 278; p. 462.

Hartman, Peter B., Watertown, N. Y. Automobile-horn. No. 1,351,904; Sept. 7; v. 278; p. 38.

Hartford-Fairmont Company. (See Hunter, Alfred R. assignor.)

Hartmann, Max, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Mercury compounds of glucosids and making same. No. 1,354,105; Sept. 28; v. 278; p. 610.

Hartog, S. D., Manufacturing Company. (See Hartog, Stephen D., assignor.)

Hartog, Stephen D., assignor to S. D. Hartog Manufacturing Company, St. Louis, Mo. Valve-facing tool. No. 1,352,599; Sept. 14; v. 278; p. 206.

Hartsough, Oliver C. (See Griffin, W. H., and Hartsough.)

Harvey, Peter L., Chicago, Ill. Flying-machine. No. 1,351,905; Sept. 7; v. 278; p. 39.

Harwood, Sumpter L., assignor of one-half to T. R. Long, Uniontown, Ala. Paste-dispensing device. No. 1,353,747; Sept. 21; v. 278; p. 494.

Hasbrouck, Charles H. (See McCabe, Thomas W. R., assignor.)

Haskelite Manufacturing Corporation. (See Haskell, Henry L., assignor.)

Haskell, Henry L., Lndington, assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Aeroplane. No. 1,352,600; Sept. 14; v. 278; p. 207.

Hastam & Stretton Limited. (See Stratton, T., and Jones, assignors.)

Hastings, Odie L. (See Iles, E. J., and Hastings.)

Hatfield, Andrew L., assignor to The Strong Machinery & Supply Co., Hillside, N. J. Gage-glass guard. No. 1,354,296; Sept. 28; v. 278; p. 648.

Hatfield, Joseph M., Independence, Kans. Can-covering. No. 1,353,236; Sept. 21; v. 278; p. 392.

Hatfield, Richard H., Brooklyn, N. Y. Means for synchronizing and harmonizing moving-picture exhibitions. No. 1,352,126; Sept. 7; v. 278; p. 80.

Hatmaker, William T., assignor to The Huffman Recording Pump Company, Dayton, Ohio. Liquid-dispensing pump. No. 1,352,664; Sept. 14; v. 278; p. 220.

Hauenstein, Peter, *et al.* (See Kugler, James R., and E. W., assignors.)

Haughton Elevator and Machine Company, The. (See Thurston, Ernest B., assignor.)

Haupt, Mathias, Spokane, Wash. Motor-vehicle. No. 1,353,393; Sept. 21; v. 278; p. 422.

Hawkinson, Paul E., assignor, by mesne assignments, to Kehawke Mfg. Co., Minneapolis, Minn. Tire-casing holder and spreader. No. 1,352,001; Sept. 14; v. 278; p. 207.

Hawkinson, Paul E., assignor, by mesne assignments, to Kehawke Mfg. Co., Minneapolis, Minn. Tire-casing spreader. No. 1,352,807; Sept. 14; v. 278; p. 249.

Hawley Pulp and Paper Company. (See Swick, Clyde E., assignor.)

Hawthorne, Ellsworth A., Bridgeport, Conn. Electrical connection. No. 1,353,748; Sept. 21; v. 278; p. 494.

Hawthorne, Louis A., Newark, N. J., assignor to Steel Utilities Incorporated. Crating apparatus. No. 1,354,250; Sept. 28; v. 278; p. 639.

Hayes, Stephen Q., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting system. No. 1,352,451; Sept. 14; v. 278; p. 176.

Hayes, William V., New York, N. Y. Blow-out patch. No. 1,352,957; Sept. 14; v. 278; p. 278.

Hays, Charles M. (See Orbin, George, assignor.)

Head, Ernest C., Van Wert, Ohio., assignor to Coburn Machine Tool Company, Franklin, Pa. Control mechanism. No. 1,353,836; Sept. 28; v. 278; p. 555.

Heady, Thomas J., Cottonwood, Ariz. Window-holder. No. 1,353,655; Sept. 21; v. 278; p. 476.

Healy, Maurice F., Watertown, Mass. Lifting-dog. No. 1,352,665; Sept. 14; v. 278; p. 220.

Heard, Ralph G., Boston, assignor to Tolman Print, Inc., Brockton, Mass. Marking-card for milk-bottles. No. 1,353,531; Sept. 21; v. 278; p. 450.

Heath, Clarence W., and W. P. Conlin, Bellevue borough, Pa. Railway-fare-receipt ticket. No. 1,354,297; Sept. 28; v. 278; p. 648.

Heath, Frank, National City, Calif. Sardine sizing and selecting apparatus. No. 1,354,251; Sept. 28; v. 278; p. 640.

Heberger, Charles W., Rochester, N. Y. Driving mechanism for grinding-tools. No. 1,353,902; Sept. 28; v. 278; p. 568.

Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Saliva-ejector. No. 1,353,587; Sept. 21; v. 278; p. 462.

Hedström, Herman O., Djursholm, Sweden. Producing compounds of radium. No. 1,353,532; Sept. 21; v. 278; p. 450.

Heenan & Froude. (See Walker, George H., assignor.)

Hegarty, William J., Lawsonville, Cork, Ireland. Hand or armpit support for water-closets. No. 1,353,749; Sept. 21; v. 278; p. 494.

Heath, Harry E., Newark, assignor to F. Conlin, Elizabethport, N. J. Driving mechanism. No. 1,351,999; Sept. 7; v. 278; p. 57.

Hedges, Isaac A., *et al.* (See Flatau, Louis, S., assignor.)

Heeter, Charles M., Butler, Pa. Valve for deep wells. No. 1,351,906; Sept. 7; v. 278; p. 39.

Heidorf, Christopher J., Hudson Falls, N. Y. Wall-paper finish. No. 1,353473; Sept. 21; v. 278; p. 438.

Heine, Herman, Brooklyn, assignor to A. Kimball Company, New York, N. Y. Pin-pointing machine. No. 1,351,849; Sept. 7; v. 278; p. 27.

Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Fluid-operated motor. No. 1,353,656; Sept. 21; v. 278; p. 476.

Heitler, Kurt, New York, N. Y. Garment-protector. No. 1,353,750; Sept. 21; v. 278; p. 495.

Heltzenreder, Jacob, Jr., Detroit, Mich. Upholstering. No. 1,353,340; Sept. 21; v. 278; p. 412.

Heller, Henry R., assignor, by mesne assignments, to Auto Pneumatic Action Co., New York, N. Y. Musical instrument. No. 1,352,958; Sept. 14; v. 278; p. 278.

Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,354,188; Sept. 28; v. 278; p. 626.

Hellmund, R. E., Swissvale, and B. S. Moore, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Arrangement of leads for dynamo-electric machines. No. 1,351,907; Sept. 7; v. 278; p. 39.

Helmers, Hio J., Sibley, Iowa. Tractor attachment. No. 1,354,252; Sept. 28; v. 278; p. 640.

Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,354,298; Sept. 28; v. 278; p. 649.

Henchoz, Gustave. (See Walther, H. S., and Henchoz.)

Henderson, Adelbert A., Wilkinsburg, Pa. Lift-bridge. No. 1,352,450; Sept. 14; v. 278; p. 176.

Henderson, John, Chicago, Ill. Internal-combustion engine. No. 1,352,127; Sept. 7; v. 278; p. 80.

Henderson, Robert L., West, Tex. Automatic rotary weighing-scale. No. 1,354,394; Sept. 28; v. 278; p. 668.

Henig Engine Co. (See Henig, Frank L., assignor.)

Henig, Frank L., assignor to Henig Engine Co., Chicago, Ill., Pneumatic tool. No. 1,352,191; Sept. 7; v. 278; p. 91.

Henning, Clarence I. B. (See Woodbridge, R. J., Jr., Casey, and Henning.)

Henry, George W., Jr., assignor to H. G. Davis Manufacturing Company, Philadelphia, Pa. Numbering attachment for pin-ticketing machines. No. 1,352,959; Sept. 14; v. 278; p. 278.

Henry, Thomas B., Northville, Mich. Combined towel and antiseptic pad. No. 1,353,954; Sept. 28; v. 278; p. 578.

Hentschel, Paul J., Baltimore, Md. Bottle-stopper. No. 1,352,062; Sept. 7; v. 278; p. 68.

Herring, Carl, Philadelphia, Pa. Apparatus for aerial navigation. No. 1,353,955; Sept. 28; v. 278; p. 578.

Hermann, Charles, assignor to Eccentric Ferris Wheel Amusement Company, Incorporated, New York, N. Y. Amusement apparatus. No. 1,354,486; Sept. 28; v. 278; p. 676.

Hernacki, John, Alexandria, La. Shade-roller support. No. 1,352,264; Sept. 7; v. 278; p. 105.

Herndon, William T., Parkton, N. C. Plow. No. 1,351,850; Sept. 7; v. 278; p. 28.

Herrmann, Dora L., and A. A. Johnson, Washington, D. C. Cook-book and the like. No. 1,354,395; Sept. 28; v. 278; p. 668.

Herschede Hall Clock Company, The. (See Herschede, W. J. and Cohan, assignors.)

Herschede, W. J., and C. Cohan, assignors to The Herschede Hall Clock Company, Cincinnati, Ohio. Speed-regulating device. No. 1,352,419; Sept. 7; v. 278; p. 134.

Hershaw, Grindrod. (See Holt, F. A., and Hershaw.)

Hershey, Harry E. (See Yanochowski, G. A., and Hershey.)

Hershey, Martin E., Arlington, N. J. Air-exhauster for steam-radiators. No. 1,352,265; Sept. 7; v. 278; p. 106.

Hervieu, Gaston, and P. M. G. Maréchal, London, England. Shed for airships, aeroplanes, and the like. No. 1,353,956; Sept. 28; v. 278; p. 579.

Herzog, John, Saginaw, Mich., assignor to Sonora Phonograph Company, Inc., New York, N. Y. Lid-support for talking-machines. No. 1,352,602; Sept. 14; v. 278; p. 207.

Hess, Clare W., Flint, Mich. Carbureter. No. 1,354,041; Sept. 28; v. 278; p. 596.

Hess, Willis C. (See Morden, M., and Hess.)

Hessel, William F., New York, N. Y. Electrical switch device. (Reissue.) No. 14,950; Sept. 21; v. 278; p. 507.

Heyl, Firm Cornelius. (See Schulz, Heinrich, assignor.)

Heylman, Frederick C., Martinez, Calif. Stop-cock. No. 1,354,460; Sept. 28; v. 278; p. 681.

Heyroth, Albert H., Geraldine, Mont. Wind-wheel electric generator. No. 1,352,960; Sept. 14; v. 278; p. 278.

Heywood, Vincent E. Worcester, Mass. Making window-envelops. No. 1,353,588; Sept. 21; v. 278; p. 462.

Hiatt, James L. (See Drey, L. A., and Hiatt.)

Hidden, Charles P., assignor to Nitrogen Products Company, Providence, R. I. Process and means for producing metallic cyanids. No. 1,352,192; Sept. 7; v. 278; p. 91.

Hidden, Charles P., Providence, R. I., assignor to Nitrogen Products Company. Fixing atmospheric nitrogen. No. 1,352,193; Sept. 7; v. 278; p. 92.

Hildebrand, Richard E., Chicago, Ill. Spark-plug intensifier. No. 1,353,657; Sept. 21; v. 278; p. 477.

Hilger, George, Chicago, Ill. Ammonia-compressor. No. 1,354,190; Sept. 28; v. 278; p. 627.

Hill, Arthur H. (See Farquhar, M. G., and Hill.)

Hill, Clarence A., Columbus, assignor to The Champion Kerosene-Burner Company, Kenton, Ohio. Kerosene-gas-burning furnace. No. 1,352,063; Sept. 7; v. 278; p. 68.

Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,352,514; Sept. 14; v. 278; p. 189.

Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,353,837; Sept. 28; v. 278; p. 555.

Hill, Hugh S. (See Fleming, I., and Hill.)

Hill, Thomas J. (See Thompson, Charles E., assignor.)

Hillfield Body Company, The. (See Schofield, Frederick C., assignor.)

Hills, Henry A., Grand Rapids, Mich. Filter. No. 1,352,961; Sept. 14; v. 278; p. 279.

Hilton, R. W. (See Catlin, G. L., and Morrison, assignors.)

Him, Thomas P. (See Hoffman, E. A., and Him.)

Hinchman, Mortimer L., Brooklyn, N. Y. Safety-envelop blank. No. 1,351,851; Sept. 7; v. 278; p. 28.

Hines, John. (See Craigie, F., and Hines.)

Hins, Leo, Perth Amboy, N. J., assignor of one-half to F. Martin, New York, N. Y. Aeroplane. No. 1,353,957; Sept. 28; v. 278; p. 579.

Hirsch, Morris, assignor to Blinr Motor Appliance Company, New York, N. Y. Electrical system for motor-vehicles and the like. No. 1,352,266; Sept. 7; v. 278; p. 106.

Hitzigrath, Paul E., Rockville Center, N. Y. Package. No. 1,352,962; Sept. 14; v. 278; p. 279.

Hlavaty, Joe, Jr., Wallis, Tex. Sunken-ship indicator. No. 1,352,000; Sept. 7; v. 278; p. 57.

Hodges, Ralph T. (See Stevens, Howard M., assignor.)

Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,354,191; Sept. 28; v. 278; p. 627.

Hodgson, Carl W., Denver, Colo. Tunneling-machine. No. 1,353,908; Sept. 28; v. 278; p. 569.

Hoe, R., and Co. (See Reynolds, Howard, assignor.)

Hoefener, Edward W., Los Angeles, Calif. Traveling stool attachment for barbers' chairs. No. 1,352,409; Sept. 7; v. 278; p. 132.

Hoenig, Harry E., assignor of one-half to J. T. Smith, East Liverpool, Ohio. Fastening device. No. 1,354,396; Sept. 28; v. 278; p. 668.

Hoff, Leslie D., Newark, N. J. Combination slitter and perforator. No. 1,351,751; Sept. 7; v. 278; p. 7.

Hoffman, Aubrey F., Longford, Kans. Radiator-cover. No. 1,352,963; Sept. 14; v. 278; p. 279.

Hoffman, Edgar J., Akron, Ohio. Hanger. No. 1,352,895; Sept. 14; v. 278; p. 266.

Hoffman, Edwin A., and T. P. Him, Wilkes-Barre, Pa. Rail-bond for electric railways. No. 1,353,237; Sept. 21; v. 278; p. 392.

Hoffman, George D., Pasadena, Calif., assignor to Hoffman Specialty Company, Chicago, Ill. Thermo-valve. No. 1,352,808; Sept. 14; v. 278; p. 249.

Hoffman, Roscoe C., Argos, Ind. Disk wheel. No. 1,353,161; Sept. 21; v. 278; p. 377.

Hoffman Specialty Company. (See Hoffman, George D., assignor.)

Hoffmann-La Roche Chemical Works, The. (See Müller, Emil, assignor.)

Hofmann, George W., and W. P. Murray, assignors to Standard Separator Company, Milwaukee, Wis. Yielding upper bearing for centrifugal separators. No. 1,353,958; Sept. 28; v. 278; p. 579.

Hofmann, William G., assignor to Howard B. Sherman, Battle Creek, Mich. Cover-locking device for grease-cups. No. 1,352,064; Sept. 7; v. 278; p. 68.

Hoffne, Fred G., Kansas City, Mo. Vibrator. No. 1,352,894; Sept. 14; v. 278; p. 266.

Hogg, William S., Washington, D. C. Sound-direction indicator. No. 1,354,299; Sept. 28; v. 278; p. 649.

Hogue, Frank G., Birmingham, Ala. Window-shade bracket. No. 1,354,297; Sept. 28; v. 278; p. 669.

Højgaard, Anders, C. E., Copenhagen, Denmark. Device for automatic extinction or dampening of the flame in gas-cookers. No. 1,352,001; Sept. 7; v. 278; p. 57.

Hoke, Jacob F., Jr. (See Holcomb, J. I., and Hoke, Jr.)

Holaday, Albert H., *et al.* (See Zwicker, Frederick P., assignor.)

Holcomb and Hoke Manufacturing Company. (See Holcomb, J. I., and Hoke, Jr., assignors.)

Holcomb & Hoke Manufacturing Company. (See Tripp, Charles E., assignor.)

Holcomb, James I., and J. F. Hoke, Jr., assignors to Holcomb and Hoke Manufacturing Company, Indianapolis, Ind. Amusement apparatus. No. 1,352,666; Sept. 14; v. 278; p. 220.

Holden, Edward A. T., Duluth, Minn. Grain-scraper. No. 1,353,341; Sept. 21; v. 278; p. 412.

Holder, William H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical controller. No. 1,352,896; Sept. 14; v. 278; p. 266.

Holdredge, Henry J., Wilkes-Barre, Pa. Electrical snap-switch. No. 1,353,589; Sept. 21; v. 278; p. 462.

Holley, Clarence M., and F. W. Robison, assignors to Utility Compressor Company, Detroit, Mich. Expansion-coil for refrigerating systems. No. 1,352,964; Sept. 14; v. 278; p. 280.

Hollmann, William H., Loretto, Tenn. Cultivator. No. 1,353,342; Sept. 21; v. 278; p. 413.

Holman, Stephen W. (See Andrews, M. L., and Holman.)

Holmes, Arthur, assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Valve-mechanism support. No. 1,352,897; Sept. 14; v. 278; p. 266.

Holmes, John H., Anoka, Minn. Winch. No. 1,353,238; Sept. 21; v. 278; p. 393.

Holsing, Claude J., South Orange, N. J. Welding system. No. 1,354,398; Sept. 28; v. 278; p. 669.

Holst, Charles T., assignor of one-half to W. J. Cullerton, Chicago, Ill. Guarding mechanism for spark-plugs of internal-combustion engines. No. 1,353,959; Sept. 28; v. 278; p. 579.

Holt, Frank A., Rochdale, and G. Kershaw, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass. Winding-machine. No. 1,353,474; Sept. 21; v. 278; p. 438.

Holt, Frank A., Rochdale, and G. Kershaw, Whitworth, England, assignors, by mesne assignments ,to Foster Machine Company, Westfield, Mass. Winding-machine. No. 1,353,475; Sept. 21; v. 278; p. 439.

Holt, Frank A., Rochdale, and G. Kershaw, Whitworth, England, assignors, by mesne assignments, to Foster Machine Company, Westfield, Mass. Yarn-tension device. No. 1,353,476; Sept. 21; v. 278; p. 439.

Holt, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Storage-battery locomotive. No. 1,352,452; Sept. 14; v. 278; p. 177.

Holt, Samuel M. (See Graves, R. W., and Holt.)

Holton-Abbott Manufacturing Company. (See Holton, Edwin C., assignor.)

Holton, Edwin C., Somerville, assignor to Holton-Abbott Manufacturing Company, West Somerville, Mass. Handle for valves and other uses. No. 1,354,106; Sept. 28; v. 278; p. 610.

Homan, John G., Steubenville, Ohio, assignor, by mesne assignments, to W. H. Keller, Norton, Va. Alloy. No. 1,352,367; Sept. 7; v. 278; p. 125.

Homans, Thomas S., Hemnstead, assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. No. 1,352,965; Sept. 14; v. 278; p. 280.

Honetschlager, George. (See Kelly, James, assignor.)

Honeywell, Edward R., Garber, Okla. Walking-tractor. No. 1,351,752; Sept. 7; v. 278; p. 7.

Honig, Charles A., St. Louis, Mo. Dressing for automobile-tops and the like. No. 1,353,239; Sept. 21; v. 278; p. 393.

Hood, William C., Chicago, Ill. Commutator-brush. No. 1,352,408; Sept. 7; v. 278; p. 132.

Hoodwin, Joseph W., Chicago, Ill. Crimping and folding machine. No. 1,353,590; Sept. 21; v. 278; p. 462.

Hooker Electrochemical Company. (See Marsh, William J., assignor.)

Hooker, Leslie E., Lowell, Mass. Machine for making cartridge-shells. No. 1,352,194; Sept. 7; v. 278; p. 92.

Hooper, Harris G., San Francisco, Calif. Aeroplane construction. No. 1,351,852; Sept. 7; v. 278; p. 28.

Hope, John F., and E. Lambert, Kansas City, Mo. Process of and apparatus for drying wood veneer or other substances. No. 1,353,591; Sept. 21; v. 278; p. 463.

Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)

Horn, Ernest H., assignor to Waterbury Clock Co., Waterbury, Conn. Stem-winding and stem-setting watch. No. 1,354,300; Sept. 28; v. 278; p. 649.

Horsey, Melvin, Crisfield, Md. Advertising device. No. 1,352,368; Sept. 7; v. 278; p. 125.

Horswell, Percy A., assignor, by mesne assignments, to The Cleveland Phonograph Company, Cleveland, Ohio. Talking-machine. No. 1,354,301; Sept. 28; v. 278; p. 649.

Horton, Dock G., Birmingham, Ala. Shade-roller. No. 1,352,410; Sept. 7; v. 278; p. 133.

Hottenstein, Philip, Gleason, Wis. Sign. No. 1,352,065; Sept. 7; v. 278; p. 68.

Houck, George H., Tonawanda, N. Y. Wrecking-trailer for automobiles. No. 1,352,898; Sept. 14; v. 278; p. 267.

Houck, John D., Chicago, Ill. Can-opener. No. 1,354,399; Sept. 28; v. 278; p. 669.

Houck, William A., Reading, Pa. Cop-mounting. No. 1,353,960; Sept. 28; v. 278; p. 580.

Houghton, E. F., & Co. (See Pelrson, C. H., and Butler, assignors.)

House, Henry A., Jr., Springfield, Mass., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Wire wheel. No. 1,353,394; Sept. 21; v. 278; p. 423.

House, Henry A., Jr., Springfield, Mass., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Forming wire-spoke nipples. No. 1,353,395; Sept. 21; v. 278; p. 423.

House, Thomas M., assignor of one-half to A. S. Kellam, Richmond, Va. Foldable basket and handle therefor. No. 1,354,253; Sept. 28; v. 278; p. 640.

Houston, Albert L., *et al.* (See Lambeth, Acey L., assignor.)

Hover, Charles F., Conrad, Mont. Mechanical movement. No. 1,351,753; Sept. 7; v. 278; p. 7.

Howard, Albertson, assignor of one-third to M. F. Lane and one-third to F. T. Peterman, Indianapolis, Ind. Storage-battery case. No. 1,354,302; Sept. 28; v. 278; p. 650.

Howard, Allen F. (See Leonard, C. L., and Howard.)

Howard, Frank E., Lamanda Park, Calif. Garment-supporter for hosiery. No. 1,353,592; Sept. 21; v. 278; p. 463.

Howcottt, H. A. W., *et al.* (See Stephens, James W. T., assignor.)

Huddleston, Loyd E, Kansas City, Mo. Burglar-proof sash-lock. No. 1,353,533; Sept. 21; v. 278; p. 450.

Howe, Andrew F., assignor, by mesne assignments, to Howe Safety Appliance Company, Granite City, Ill. Safety-guard for rotary grinding-machines. No. 1,351,908; Sept. 7; v. 278; p. 39.

Howe, Clinton W., Chicago, Ill. Pawl-and-ratchet mechanism. No. 1,352,603; Sept. 14; v. 278; p. 207.

Howe, James M., assignor to Grant Motor Car Corporation, Cleveland, Ohio. Packless joint. No. 1,354,192; Sept. 28; v. 278; p. 627.

Howe Lamp & Mfg. Co. (See Nelson, Arvid, assignor.)

Howe Safety Appliance Company. (See Howe, Andrew F., assignor.)

Howe Scale Company. (See Souander, Andrew, assignor.)

Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. System for governing railway traffic. No. 1,354,254; Sept. 28; v. 278; p. 640.

Howell, Clarence S., assignor, by mesne assignments, of one-half to L. McGuire, New York, N. Y. Concrete-pile construction. No. 1,352,128; Sept. 7; v. 278; p. 80.

Howitt, Herbert G., and W. J. Prichard, Merthyr Tydfil, Wales, and J. Evans, Eltham, London, England. Internal-combustion rotary engine and the like. No. 1,354,189; Sept. 28; v. 278; p. 626.

Hubard, Archibald B., Ogontz, Pa. Antifriction roller and ball-bearing. No. 1,351,754; Sept. 7; v. 278; p. 8.

Hubbell, Harvey, Bridgeport, Conn. Electric-switch mechanism. No. 1,352,604; Sept. 14; v. 278; p. 207.

Hubbell, Lindley D., Hartford, Conn. Firearm. No. 1,352,267; Sept. 7; v. 278; p. 106.

Huber, Sigmund V. (See Williamson, A. G., and Huber.)

Huffman Recording Pump Company, The. (See Hatmaker, William T., assignor.)

Huggins, Merion J., and W. C. Dressler, said Huggins assignor to Automotive Development Co., Inc., New York, N. Y. Speed-controlling mechanism for automobiles. No. 1,354,303; Sept. 28; v. 278; p. 650.

Hughes, Arthur J. (See Starling, S. G., and Hughes.)

Hughes, Henry & Son Limited. (See Starling, S. G., and Hughes, assignors.)

Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,353,534; Sept. 21; v. 278; p. 451.

Hughes, Thomas J., Seattle, Wash. Collapsible rivet-mold. No. 1,353,813; Sept. 21; v. 278; p. 506.

Hulse, Frederick W., Northfield, near Birmingham, England, assignor of one-half to Armes Automatiques Lewis, Antwerp, Belgium. Cartridge-extractor for fire-arms. No. 1,352,515; Sept. 14; v. 278; p. 190.

Hultberg, John E., Warren, Pa. Tool-handle. No. 1,353,043; Sept. 14; v. 278; p. 295.

Humphreville, Frank, Atlantic City, N. J. Toy rocker-carriage. No. 1,354,400; Sept. 28; v. 278; p. 669.

Hunt, Harry B., Foremost, Alberta, Canada. Sectional bookcase. No. 1,352,195; Sept. 7; v. 278; p. 92.

Hunt, Homer, Springfield, Mass. Brush. No. 1,352,369; Sept. 7; v. 278; p. 125.

Hunt, Nathaniel H., assignor of one-half to W. G. Kent, London, England. Means for measuring the velocity of a moving body. No. 1,352,809; Sept. 14; v. 278; p. 249.

Hunt, Otto H., Walla Walla, Wash. Clamp. No. 1,352,810; Sept. 14; v. 278; p. 250.

Hunter, Alfred R., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-working machine. No. 1,353,115; Sept. 14; v. 278; p. 308.

Hunter, Percy E., Pittsburgh, Pa. Metal supporting and transferring table. No. 1,352,811; Sept. 14; v. 278; p. 250.

Hunter, Samuel, Bellevue, Pa. Electric routing-machine. No. 1,352,196; Sept. 7; v. 278; p. 92.

Hunziker, Benjamin F., assignor to J. F. Hunziker, Minneapolis, Minn. Cigarette-case. No. 1,354,042; Sept. 28; v. 278; p. 597.

Hunziker, Julius F. (See Hunziker, Benjamin F., assignor.)

Hurst, Max, *et al.* (See Link, William, assignor.)

Hutchins, Frank E., *et al.* (See Rosentreter, Albert J., assignor.)

Hutchinson, David M., *et al.* (See Hachmann, Frederick, assignor.)

Hutson, James L., Shelbyville, Tenn. Perpetual calendar. No 1,353,751; Sept. 21; v. 278; p. 495.

Hutton, John, Gibliston, Colinsburgh, Scotland. Machine for planting potatoes and other seed. No. 1,352,411; Sept. 7; v. 278; p. 133.

Hyde, Charles H., assignor to William L. Gilbert Clock Company, Winstead, Conn. Sash for dials. No. 1,351,853; Sept. 7; v. 278; p. 28.

Hyde, Frank, Sioux Falls, S. D. Collar-fastener. No. 1,352,268; Sept. 7; v. 278; p. 106.

Hyde, Reed W. (See Cameron, F. K. Cullen and Hyde.)

Hyder, Alvin, San Pedro, Calif. Oil-engine. No. 1,354,455; Sept. 28; v. 278; p. 680.

Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)

Ikeda, Kikunaé, Tokyo, Japan. Manufacturing hydrogen sulfid. No. 1,351,755; Sept. 7; v. 278; p. 8.

Ilea, Elijah J., and O. L. Hastings, Alexandria, La. Curing-house for sweet-potatoes. No. 1,353,752; Sept. 21; v. 278; p. 495.

Illig, Paul T., Ebensburg, Pa. Section-closer and foundation-fastener for honey-sections. No. 1,354,107; Sept. 28; v. 278; p. 610.

Illinois Specialty Manufacturing Company. (See Frankeberger, Albert L., assignor.)

Indahl, Maurits C., Philadelphia, Pa. Differential-gear mechanism. No. 1,352,269; Sept. 7; v. 278; p. 106.

Industrial Research Corporation. (See Brockway, Carl P., assignor.)

Industrial Research Corporation. (See Green, Charles F., assignor.)

Industrial Research Corporation. (See Jones, George G., assignor.)

Ingells, James, Muskegon, Mich. Aeroplane-tractor. No. 1,353,961; Sept. 28; v. 278; p. 580.

Ingersoll, George B., Detroit, Mich. Selective change-speed gearing and control mechanism. No. 1,353,240; Sept. 21; v. 278; p. 393.

Ingersoll-Rand Company. (See Bancel, Paul A., assignor.)

Ingersoll-Rand Company. (See Beyer, H. E., and Hall, assignors.)

Ingersoll-Rand Company. (See Christmas, Adolph F., assignor.)

Ingersoll-Rand Company. (See Gibson, Arthur H., assignor.)

Ingersol-Rand Company, The. (See Longacre, Frederick v. D., assignor.)

Ingersoll-Rand Company. (See Prellwitz, William, assignor.)

Ingersoll-Rand Company. (See Smith, William A., assignor.)

Ingersoll-Rand Company. (See Stage, Harold I., assignor.)

Ingram, Alfred, and H. I., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,396; Sept. 21; v. 278; p. 423.

Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,397; Sept. 21; v. 278; p. 423.

Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for tumblers, jars, bottles, and other receptacles. No. 1,353,398; Sept. 21, v. 278; p. 424.

Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles and other receptacles. No. 1,353,399; Sept. 21; v. 278; p. 424.

Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,400; Sept. 21; v. 278; p. 424.

Ingram, Alfred and H., Brooklyn, assignors to Ingrams Incorporated, New York, N. Y. Closure for jars, bottles, and other receptacles. No. 1,353,909; Sept. 28; v. 278; p. 569.

Ingram, Harry. (See Ingram, Alfred and H.)

Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)

Inman Manufacturing Company. (See Joslin, Frank M., assignor.)

International Aerial Navigation Company. (See Keppel, Jesse E., assignor.)

International Conveyor Corporation. (See Stuart, Francis L., assignor.)

International Cork Company. (See Alberti, Emilio, assignor.)

International Harvester Company. (See Burgess, Edward W., assignor.)

International Harvester Company. (See Johnston, E. A., and Kane, assignors.)

International Harvester Company. (See Lindgren, Alexus C., assignor.)

International Nickel Company, The. (See Stanley, Robert C., assignor.)

International Torpedo Boat Corporation. (See Shearer, William B., assignor.)

Intertype Corporation. (See Homans, Thomas S., assignor.)

Irrgang, Hans F., St. Maries, Idaho. Electric switch. No. 1,352,966; Sept. 14; v. 278; p. 280.

Irvine, Charles R., Petrolia, Ontario, Canada. Vehicle-tire. No. 1,352,370; Sept. 7; v. 278; p. 125.

Irving, Roy F. (See Managnall, A. R. and Irving.)

Irwin, Beatrice, New York, N. Y. Light-filter. No. 1,351,756; Sept. 7; v. 278; p. 8.

Iseman, Will D., Detroit, Mich. Egg-candler. No. 1,351,757; Sept. 7; v. 278; p. 8.

Isgrig, Walter V., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile- bumper. No. 1,353,241; Sept. 21; v. 278; p. 393.

Ivey, Percy D., Guelph, Ontario, and A. J. Salisbury, Toronto, Ontario, Canada, assignors to The Ivey Storage Batteries, Limited, Toronto, Canada. Battery-cell hydrometer. No. 1,354,255; Sept. 28; v. 278; p. 641.

Ivey, Percy D., Guelph, and A. J. Salisbury, assignors to The Ivey Storage Batteries, Limited, Toronto, Ontario, Canada. Battery cell. No. 1,354,256; Sept. 28; v. 278; p. 641.

Ivey Storage Batteries, The. (See Ivey, P. D., and Salisbury, assignors.)

Jackson Compressor Company, The. (See Jackson, Henry O., assignor.)

Jackson, Henry O., assignor to The Jackson Compressor Company, Denver, Colo. Rotary air-compressor. No. 1,352,750; Sept. 14; v. 278; p. 237.

Jackson, Henry O., assignor to The Jackson Compressor Company, Denver, Colo. Rotary air-compressor. No. 1,352,751; Sept. 14; v. 278; n. 237.

Jacob, Ernst A. H., San Antonio, Tex. Cotton-tramper. No. 1,352,129; Sept. 7; v. 278; p. 80.

Jacobs, George, Detroit, Mich. Resilient wheel. No. 1,352,752; Sept. 14; v. 278; p. 238.

Jacobsen, Emil, Evanston, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,352,605; Sept. 14; v. 278; n. 208.

Jacobsson, Axel T., Cleveland, Ohio. Frame for moving-picture screens. No. 1,353,242; Sept. 21; v. 278; p. 393.

Jacoby, Charles N. (See Richardson, D., and Jacoby.)

James, Edgar, Lincolnton, N. C. Automobile-drive. No. 1,352,131; Sept. 7; v. 278; p. 81.

James, Eugene, Lincolnton, N. C. Automobile-drive. No. 1,352,130; Sept. 7; v. 278; p. 80.

James, Henry D., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,354,193; Sept. 28; v. 278; p. 628.

James, Henry V., Radlett, England. Controlling means for electromagnetic feed-reel brakes. No. 1,353,401; Sept. 21; v. 278; p. 424.

James, Willard C., Los Angeles, Calif., assignor to F. L. Belknap, Chicago, Ill. Vertically-pivoted wall-bed. No. 1,353,162; Sept. 21; v. 278; p. 378.

James, Willard C., Los Angeles, Calif., assignor to F. L. Belknap, Chicago, Ill. Screened bed having vertical pivots. No. 1,353,163; Sept. 21; v. 278; p. 378.

James, William A., Providence, R. I. Hair-cutter. No. 1,353,243; Sept. 21; v. 278; p. 393.

Jameson, Charles V., Chicago, Ill. Pneumatic action for musical instruments. No. 1,353,753; Sept. 21; v. 278; p. 495.

Jamieson, Frank F., Montreal, Quebec, Canada, assignor to Mechanical Rubber Company. Apparatus for making tobacco-pouches. No. 1,353,477; Sept. 21; v. 278; p. 439.

Jansen, Theodore W., Des Moines, Iowa. Machine for burning in and burnishing engine-bearings. No. 1,353,164; Sept. 21; v. 278; p. 378.

Jarvis, John G., Stamford, N. Y. Nitrocellulose film of low inflammability. No. 1,354,401; Sept. 28; v. 278; p. 670.

Jayne, Robert K., Jackson, Miss. Sleeping-cabinet. No. 1,353,754; Sept. 21; v. 278; p. 495.

Jefferson, Benjamin H., and W. I. Kirk, assignors to Lyon & Healy, Chicago, Ill. Piano-pedal and like device. No. 1,353,755; Sept. 21; v. 278; p. 496.

Jefferson, Daniel H., Los Angeles, assignor to F. E. Andeis, Alhambra, Calif. Gaging means. No. 1,352,270; Sept. 7; v. 278; p. 107.

Jefferies-Norton Corporation. (See Norton, Fred E., assignors.)

Jeffrey Manufacturing Company, The. (See Ball, Albert, assignor.)

Jeffrey Manufacturing Company, The. (See Levin, Niles D., assignor.)

Jeffries, Oscar S., Sr., assignor of one-half to G. W. Kirk, Philadelphia, Pa. Muffler. No. 1,353,478; Sept. 21; v. 278; p. 439.

Jeffries, Z., and W. A. Gibson, assignors to The Aluminum Castings Company, Cleveland, Ohio. Alloy. No. 1,352,271; Sept. 7; v. 278; p. 107.

Jeffries, Z., and W. A. Gibson, assignors to The Aluminum Castings Company, Cleveland, Ohio. Alloy. No. 1,352,272; Sept. 7; v. 278; p. 107.

Jemison, Elden H. (See Gustin, William M., assignor.)

Jenckes Knitting Machine Company. (See Miller, Max C., assignor.)

Jenckes Spinning Company. (See Wood, William P., assignor.)

Jendryke, Benjamin, San Francisco, Calif. Resilient wheel. No. 1,354,304; Sept. 28; v. 278; p. 650.

Jenkins, Robert C., Bessemer, Ala. Automobile-lock. No. 1,352,132; Sept. 7; v. 278; p. 81.

Jennings, Victor H., assignor, by mesne assignments, to F. R. Batchelder, Worcester, Mass. Woven pocketed carrier. No. 1,352,133; Sept. 7; v. 278; p. 81.

Jennings, Victor H., Worcester, Mass., assignor, by mesne assignments, to F. R. Batchelder. Woven carrier. No. 1,352,453; Sept. 14; v. 278; p. 177.

Jerram, Arthur E. (See Bassett, R. W. C., and Jerram.)

Jerram, Arthur E. (See Goddard, J. W. and Jerram.)

Joerns, Frederick, assignor to C. A. Joerns, St. Paul, Minn. Hydraulic hoist. No. 1,353,244; Sept. 21; v. 278; p. 394.

Johanson, Charles, Dover, N. J. Pattern-controlled mechanism. No. 1,353,756; Sept. 21; v. 278; p. 496.

Johnson, Arthur A. (See Herrmann, D. L., and Johnson.)

Johnson, Benjamin H., and B. M. Phelps, said Johnson assignor to W. S. Phelps, Roanoke, Va. Bed-frame connection. No. 1,351,758; Sept. 7; v. 278; p. 8.

Johnson, Carl E., St. Paul, Minn. Combined engine and vehicle frame. No. 1,353,245; Sept. 21; v. 278; p. 394.

Johnson, Carl G., Eau Claire, Wis. Camera. No. 1,352,134; Sept. 7; v. 278; p. 81.

Joerns, Cora A. (See Joerns, Frederick, assignor.)

Johnson, Charles A., Unionville, Conn. Threading attachment. No. 1,354,305; Sept. 28; v. 278; p. 650.

Johnson, Charles F., Hartford, Conn. Air-compressor. No. 1,354,402; Sept. 28; v. 278; p. 670.

Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company. Sound-box for sound recording and reproducing machines. No. 1,353,479; Sept. 21; v. 278; p. 439.

Johnson, Emil F., Lamberton, Minn. Shortening attachment for reins. No. 1,352,812; Sept. 14; v. 278; p. 250.

Johnson, Elmer, Dodgeville, Wis. Fastening device for chains. No. 1,354,194; Sept. 28; v. 278; p. 628.

Johnson, Frank L., Akron, Ohio. Collapsible tire-core. No. 1,352,274; Sept. 7; v. 278; p. 107.

Johnson, Harry L., Boston, Mass., and M. Raymer, Battle Creek, Mich., assignors to P. E. Ginn, Boston, Mass. Machine for sealing cartons. No. 1,352,197; Sept. 7; v. 278; p. 93.

Johnson, Harry L., assignor to Percy E. Ginn, Boston, Mass. Package-sealing machine. No. 1,352,899; Sept. 14; v. 278; p. 267.

Johnson, Howard A., Norfolk, Va. Multiple sliding door for use in airplane-hangars or other large openings. No. 1,352,606; Sept. 14; v. 278; p. 208.

Johnson, John, Brooklyn, N. Y. Mixer. No. 1,353,165; Sept. 21; v. 278; p. 378.

Johnson, John, Brooklyn, N. Y. Rapid dissolver. No. 1,353,166; Sept. 21; v. 278; p. 378.

Johnson, John M., Winters, Calif. Tractor. No. 1,354,108; Sept. 28; v. 278; p. 611.

Johnson, John N., Albuquerque, N. Mex. Manually-operated hair-clippers. No. 1,354,306; Sept. 28; v. 278; p. 650.

Johnson, Lawrence E., assignor, by mesne assignments, to Mattie S. Johnson, Melrose, Mass. Method of and apparatus for heat-treating metals. No. 1,351,909; Sept. 7; v. 278; p. 39.

Johnson, Lewis H., assignor, by mesne assignments, to Western Electric Company, Bloomfield, N. J. Telephone system. No. 1,353,910; Sept. 28; v. 278; n. 570.

Johnson, Mattie S. (See Johnson, Lawrence E., assignor.)

Johnson, Ralph D., Fairbury, Ill. Clothesline. No. 1,352,273; Sept. 7; v. 278; p. 107.

Johnson, Thomas A., Rockford, Ill. Bottle-stopper protector and supporter. No. 1,352,967; Sept. 14; v. 278; p. 250.

Johnson, Walter, North Loup, Nebr. Treating mineral oils. No. 1,354,257; Sept. 28; v. 278; p. 641.

Johnston, E. A., and E. J. Kane, assignors, by mesne assignments, to International Harvester Company, Chicago, Ill. Tractor steering mechanism. No. 1,351,759; Sept. 7; v. 278; p. 9.

Johnston, Frank B., assignor to American Safety Device Company, New York, N. Y. Safety-scaffold. No. 1,352,454; Sept. 14; v. 278; p. 177.

Johnston, Frank B., assignor to American Safety Device Company, New York, N. Y. Scaffold-supporting machine. No. 1,352,455; Sept. 14; v. 278; p. 177.

Johnston, Samuel C., Lancaster, S. C. Knock-off mechanism for looms. No. 1,353,343; Sept. 21; v. 278; p. 413.

Jolris, Jean L., Wandre, Belgium. Shotgun and like gun. No. 1,351,952; Sept. 7; v. 278; p. 48.

Jokubaitis, Damian, Terre Haute, Ind. Combined compass and quadrant. No. 1,354,195; Sept. 28; v. 278; p. 628.

Jonassen, Alfred C. and N., Whakatane, New Zealand. Resilient tire. No. 1,353,757; Sept. 21; v. 278; p. 496.

Jones, Charles H., Medford, Mass. Mechanism for guiding and spacing candy. No. 1,352,607; Sept. 14; v. 278; p. 208.

Jones, Charles J., Cheyenne, Wyo. Weather-strip. No. 1,352,276; Sept. 7; v. 278; p. 107.

Jones, Emil J., Jamestown, N. Y. Knockdown sheet-metal drawer. No. 1,352,002; Sept. 7; v. 278; p. 57.

Jones, George G., Cleveland, assignor to Industrial Research Corporation, Toledo, Ohio. Device for removing tires from rims. No. 1,352,135; Sept. 7; v. 278; p. 81.

Jones, James E. (See Moody, William E., assignor.)

Jones, John J., Wichita, Kans. Automobile-body construction. No. 1,352,066; Sept. 7; v. 278; p. 68.

Jones, John W. (See Stretton, T., and Jones.)

Jones, Oliver R., Welland, Ontario, Canada. Wrench. No. 1,352,130; Sept. 7; v. 278; p. 82.

Jones, Thomas J., Herrin, Ill. Automatic flying-switch mechanism. No. 1,354,403; Sept. 28; v. 278; p. 670.

Jorgenson, John, Racine, Wis. Spark-plug. No. 1,353,593; Sept. 21; v. 278; p. 463.

Josephs, Julius, assignor to the Crofut & Knapp Company, New York, N. Y. Cap. No. 1,352,968; Sept. 14; v. 278; p. 281.

Joslin, Charles T., Feura Bush, N. Y. Cabinet for cigarettes. No. 1,354,307; Sept. 28; v. 278; p. 650.

Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Machine for making partitions for boxes. No. 1,353,344; Sept. 21; v. 278; p. 413.

Joule, Joseph, and C. A. Coups, assignors to Eastwood Wire Manufacturing Company, Belleville, N. J. Loom. No. 1,353,962; Sept. 28; v. 278; p. 580.

Joule, Joseph, and C. A. Coups, assignors to Eastwood Wire Manufacturing Company, Belleville, N. J. Loom. No. 1,353,963; Sept. 28; v. 278; p. 580.

Joyce-Cridland Company, The. (See Ripsch, C. W., and Dawley, assignors.)

Joyce, Michael J. (See Dence, Carl, assignor.)

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,352,276; Sept. 7; v. 278; p. 108.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,352,277; Sept. 7; v. 278; p. 108.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,352,278; Sept. 7; v. 278; p. 108.

Kabushiki-Kwaisha Mamiyado. (See Mamiya, Katsusaburo, assignor.)

Kafafian, Krikor. (See Esmarian, G., and Kafafian.)

Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Combined electromagnetically and manually operable organ-stop. No. 1,353,594; Sept. 21; v. 278; p. 463.

Kalata, Frank, Springfield, Ill. Car-coupling. No. 1,352,516; Sept. 14; v. 278; p. 190.

Kalix, John, White Plains, N. Y. Carrier. No. 1,352,969; Sept. 14; v. 278; p. 281.

Kallom, F. W., Malden, and P. S. Toennesen, Everett, Mass. Sanding device. No. 1,351,760; Sept. 7; v. 278; p. 9.

Kaltenbach, Robert W., assignor to The McMyler Interstate Company, Cleveland, Ohio. Box-car unloader. No. 1,352,608; Sept. 14; v. 278; p. 208.

Kalton, Martin A., Minneapolis, Minn. Door-spring. No. 1,354,196; Sept. 28; v. 278; p. 628.

Kane, Edmund J. (See Johnston E. H., and Kane.)

Karl, Ernest, Litchfield, Conn. Adjustable chase and lockup for printing, cutting, and creasing presses. No. 1,353,758; Sept. 21; v. 278; p. 496.

Karschits, Frank, Bridgeport, Conn. Combination-chair. No. 1,353,595; Sept. 21; v. 278; p. 463.

Kastenbois, Charles C., *et al.* (See Kugler, James R., and E. W., assignors.)

Kaufman, Michael M., and J. P. Lynn, Chicago, Ill., assignors to P. P. Thomas, trustee, Minneapolis, Minn. Mechanical pencil. No. 1,353,845; Sept. 21; v. 278; p. 413.

Kaufmann, John W., Baltimore, Md. Reproducer for talking-machine. No. 1,354,197; Sept. 28; v. 278; p. 628.

Kays, Charles A. (See Wilhem, J., and Kays.)

Kazienko, Julian, Rosebank, N. Y. Automobile turn-indicating device. No. 1,353,964; Sept. 28; v. 278; p. 580.

Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,352,970; Sept. 14; v. 278; p. 281.

Keffer, Charles A. (See Stehle, F., and Keffer.)

Kehawke Mfg. Co. (See Hawkinson, Paul E., assignor.)

Keiper, Henry B., Lancaster, Pa. Ball retainer and separator for thrust-bearings. No. 1,353,044; Sept. 14; v. 278; p. 295.

Keitz, Joseph F., Jersey City, N. J. Eye-shield for automobile-drivers. No. 1,353,759; Sept. 21; v. 278; p. 496.

Kellam, Albert S. (See House, Thomas M., assignor.)

Kellam, Albert S., and N. F. Norvell, Richmond, Va. Valve. No. 1,352,900; Sept. 14; v. 278; p. 267.

Keller, William H. (See Homan, John G., assignor.)

Kelley, Charles E., and G. D. Speicher, Larksville, borough, Pa. Latch for doors of mine-cars. No. 1,353,760; Sept. 21; v. 278; p. 496.

Kelley, George S., Cranston, R. I. Bow-holder. No. 1,353,912; Sept. 28; v. 278; p. 570.

Kellogg Switchboard and Supply Company. (See Bryce, Harry W., assignor.)

Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)

Kellogg, Waldo S., assignor to Austral Window Co., New York, N. Y. Balanced window. No. 1,352,971; Sept. 14; v. 278; p. 281.

Kelly, James, Eagle Pass, Tex., assignor of one-half to G. Honetschlager, Stanford, Mont. Ignition system for gas-engines. No. 1,353,045; Sept. 14; v. 278; p. 295.

Kelly, Thomas D., Hove, England. Construction of packing for piston-rings. No. 1,354,404; Sept. 28; v. 278; p. 670.

Kemble, Charles P. (See Kennicott, C. L., and Kemble.)

Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mold. No. 1,352,457; Sept. 14; v. 278; p. 178.

Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mold. No. 1,354,198; Sept. 28; v. 278; p. 628.

Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Coal-crusher. No. 1,352,609; Sept. 14; v. 278; p. 208.

Kennard, Joseph S., Jr., New York, N. Y. Combined motion-picture camera and projector. No. 1,352,003; Sept. 7; v. 278; p. 57.

Kennedy, Joseph, Richmond Hill, assignor to The Clements Co., New York, N. Y. Bolt-anchor. No. 1,352,199; Sept. 7; v. 278; p. 93.

Kennedy, Joseph, Richmond Hill, assignor, by mesne assignments, to The Orsbee Co., Inc., New York, N. Y. Bolt-anchor. No. 1,352,200; Sept. 7; v. 278; p. 93.

Kennedy, Joseph, Richmond Hill, assignor, by mesne assignments, to The Orsbee Co., Inc., New York, N. Y. Bolt-anchor. No. 1,352,201; Sept. 7; v. 278; p. 93.

Kenney, David T., North Plainfield, N. J. Heating system. No. 1,352,371; Sept. 7; v. 278; p. 126.

Kennicott, Cass L., and C. P. Kemble, Chicago Heights; said Kennicott assignor, by mesne assignments, to A. C. Harding, Chicago, Ill. Machine for forming metal. No. 1,352,813; Sept. 14; v. 278; p. 250.

Kenny, William J. (See Doyle, J. H., and Kenny.)

Kent, Arthur A. (See Richter, William H., assignor.)

Kent, Walter G. (See Hunt, Nathaniel H., assignor.)

Keppel, Jesse E., assignor to International Aerial Navigation Company, St. Louis, Mo. Tail-light signal. No. 1,352,279; Sept. 7; v. 278; p. 108.

Kessel, Fred, New York, N. Y. Caster. No. 1,352,004; Sept. 7; v. 278; p. 58.

Kessel, John A., Buffalo, N. Y. Ash-sifter. No. 1,352,667; Sept. 14; v. 278; p. 220.

Kessler, John H., Binghamton, N. Y. Extension window-screen. No. 1,352,372; Sept. 7; v. 278; p. 126.

Kettering, Charles F., assignor to Delco-Light Company, Dayton, Ohio. System of electrical control. No. 1,351,910; Sept. 7; v. 278; p. 40.

Ketteringham, George W., La Fayette, La. Drip-pan for sanitary closets. No. 1,354,199; Sept. 28; v. 278; p. 629.

Keyes, Charles H., Denver, Colo. Brake-shoe. No. 1,353,914; Sept. 28; v. 278; p. 570.

Keyser, Isaac N., Urbana, Ohio. Vermin-exterminator. No. 1,352,067; Sept. 7; v. 278; p. 69.

Keyworth, William C., Paterson, N. J. Swift for reeling-machines. No. 1,352,458; Sept. 14; v. 278; p. 178.

Kidney, Harvey R., Cleveland, Ohio. Compensating driving mechanism for motor-vehicles. No. 1,351,761; Sept. 7; v. 278; p. 9.

Kiefer, Arthur W., Chicago, Ill. Pipe-wrench. No. 1,353,246; Sept. 21; v. 278; p. 394.

Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,352,280; Sept. 7; v. 278; p. 108.

Kimball, A., Company. (See Heine Herman, assignor.)

Kimball, Robert E., Cleveland, Ohi Set-back register. No. 1,352,973; Sept. 14; v. 278; p. 281.

Kimbark, Eugene U., Evanston, Ill. Envelop. No. 1,352,972; Sept. 14; v. 278; p. 281.

Kime, Benjamin J., assignor of one-fourth to R. R. Micks, Seneca Falls, N. Y. Centrifugal pump. No. 1,353,915; Sept. 28; v. 278; p. 570.

King, Bert W., and A. C. Burkheiser, Detroit, Mich., assignors to Detroit Automatic Scale Company, Elkhart, Ind. Scale and thermostat therefor. No. 1,353,997; Sept. 28; v. 278; p. 587.

King, Bertell W., Brooklyn, N. Y. Means for inscribing unexposed photographic films, plates, or the like. No. 1,351,762; Sept. 7; v. 278; p. 9.

King, Charles, Mount Sterling, Ohio. Cattle-guard. No. 1,354,405; Sept. 28; v. 278; p. 670.

King, Edward M., Elida, Ohio. Game apparatus. No. 1,352,517; Sept. 14; v. 278; p. 190.

King, Roy D., assignor of one-half to J. Nelson, Chicago, Ill. Spring-die cushion. No. 1,352,911; Sept. 7; v. 278; p. 40.

King, Stewart B., Highlands, N. J. Skiff. No. 1,352,753; Sept. 14; v. 278; p. 238.

King, Willis R. (See Todd, E. N., and King.)

Kirk, George W. (See Jeffries, Oscar S., Sr., assignor.)

Kirk Latty Manufacturing Company, The. (See Sieffel, William J., assignor.)

Kirk, Walter I. (See Jefferson, B. H., and Kirk.)

Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Trunk for harps or like instruments. No. 1,352,814; Sept. 14; v. 278; p. 250.

Kirkham, Charles B., assignor to Curtiss Aeroplane & Motor Corporation, Buffalo, N. Y. Aeronautical motor. No. 1,351,763; Sept. 7; v. 278; p. 9.

Kirkpatrick, Gladys L., assignor of one-half to J. E. Robbins, Greensburg, Ind. Boy's pants. No. 1,353,480; Sept. 21; v. 278; p. 440.

Kirsh, Hugh L., Beaver Dam, Wis. Fittings for molding plants. No. 1,352,815; Sept. 14; v. 278; p. 250.

Kish, Joseph, Johnstown, Pa. Clothesline-holder. No. 1,354,109; Sept. 28; v. 278; p. 611.

Kitaoka, Toraki, Los Angeles, Calif. Can funnel and spout. No. 1,354,110; Sept. 28; v. 278; p. 611.

Kitselman, Alva L., Muncie, Ind. Wire-fabric machine. No. 1,353,346; Sept. 21; v. 278; p. 413.

Klauber, Laurence M., assignor of one-half to San Diego Consolidated Gas & Electric Company, San Diego, Calif. Repeating fuse apparatus. No. 1,352,816; Sept. 14; v. 278; p. 251.

Kleckler, Frank G., Bath, N. Y. Belt-shifter. No. 1,354,406; Sept. 28; v. 278; p. 670.

Kleckler, Henry. (See Curtiss, G. H., and Kleckler.)

Kleckler, Henry, assignor to Curtiss Aeroplane & Motor Corporation, Hempstead, N. Y. Hoisting connection for airplanes. No. 1,351,764; Sept. 7; v. 278; p. 10.

Klein, Carl, Wichita, Kans. Metallic fencepost. No. 1,351,912; Sept. 7; v. 278; p. 40.

Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Attachment-plug. No. 1,352,817; Sept. 14; v. 278; p. 251.

Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,353,124; Sept. 14; v. 278; p. 310.

Kleine, Robert, Chicago, Ill. Radiator-core. No. 1,352,068; Sept. 7; v. 278; p. 69.

Kleinert, I. B., Rubber Company. (See Zwicke, Martin, assignor.)

Klemme, Ernst F., Milwaukee, Wis. Water-closet ventilator. No. 1,351,854; Sept. 7; v. 278; p. 28.

Klingback, Adam, Emmett, Idaho. Power-hammer. No. 1,353,347; Sept. 21; v. 278; p. 414.

Klovstad, John A., Hope, N. D. Self-loading coal and grain truck. No. 1,353,247; Sept. 21; v. 278; p. 394.

Klunder, Jacob, Grand Rapids, Mich. Direction-indicator and tail-light for vehicles. No. 1,351,913; Sept. 7; v. 278; p. 40.

Knapp, Albert S., assignor to Wickwire Spencer Steel Corporation, Worcester, Mass. Loom for weaving wire-cloth. No. 1,352,610; Sept. 14; v. 278; p. 209.

Knapp, Walter C., assignor to Liberty Bread Slicer, Inc., Rochester, N. Y. Slicing-machine. No. 1,353,802; Sept. 21; v. 278; p. 504.

Knapp, Walter C., assignor to Liberty Bread Slicer, Inc., Rochester, N. Y. Slicing-machine. No. 1,353,803; Sept. 21; v. 278; p. 504.

Knight, Herbert M., Rome, N. Y. Concrete block construction. No. 1,353,046; Sept. 14; v. 278; p. 296.

Knight, John J., Alameda, and M. Lee, Oakland, Calif. Bearing and constructing same. No. 1,354,200; Sept. 28; v. 278; p. 629.

Knoch, Isaac, *et al.* (See Nelson, Anton R., assignor.)

Knoche, Bernhard N., Valley Stream, N. Y. Spool. No. 1,353,761; Sept. 21; v. 278; p. 497.

Knock, Juan F., Lewistown, Ill. Fuel-saver. No. 1,351,855; Sept. 7; v. 278; p. 28.

Knopf, Sidney M., New York, N. Y. Reflecting device for electric incandescent lamps. No. 1,353,916; Sept. 28; v. 278; p. 571.

Knox, Luther L., Avalon, assignor to Blaw-Knox Company, Pittsburgh, Pa. Valve system for reversing furnaces. No. 1,351,914; Sept. 7; v. 278; p. 41.

Knox, Luther L., Avalon, assignor to Blaw-Knox Company, Pittsburgh, Pa. Reversing furnace. No. 1,351,915; Sept. 7; v. 278; p. 41.

Knudsen, Carl H., Brooklyn, N. Y. Internal-combustion engine. No. 1,353,481; Sept. 21; v. 278; p. 440.

Knutson, Knut, Bergen, Norway. Hatch-cover. No. 1,352,202; Sept. 7; v. 278; p. 94.

Koch, Charles J., assignor to The Sales Service Company, Cincinnati, Ohio. Carrying case for motion-picture projectors. No. 1,351,765; Sept. 7; v. 278; p. 10.

Koch, Gotthardt, Chicago, Ill. Engine-lock. No. 1,352,417; Sept. 7; v. 278; p. 134.

Kochendorfer, Frederic S., Chicago, and B. E. Baldut, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Annealing-furnace. No. 1,352,459; Sept. 14; v. 278; p. 178.

Kocourek, Henry, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Belt transmission. No. 1,354,407; Sept. 28; v. 278; p. 671.

Koegan, Richard C., South Bend, Ind. Power-excavator. No. 1,353,913; Sept. 28; v. 278; p. 570.

Koellner, Louie F. (See Cotton, Alfred, and Koellner.)

Koetz, Francis M., Woodstock, Ill. Traction-wheel. No. 1,352,281; Sept. 7; v. 278; p. 109.

Kohner, Louis M., Los Angeles, Calif. Oil-burner. No. 1,352,373; Sept. 7; v. 278; p. 126.

Koll, Emil, Cincinnati, Ohio. Piano-flange. No. 1,353,596; Sept. 21; v. 278; p. 464.

Kollmar, Emil, Pforzheim, assignor to Kollmar & Fourdan A.-G. Uhrkettenfabrik, Pforsheim, Baden, Germany. Method of and apparatus for affixing objects on cards or like supports. No. 1,354,308; Sept. 28; v. 278; p. 651.

Kollmar & Fourdan A.-G. Uhrkettenfabrik. (See Kollmar, Emil, assignor.)

Komarcsevits, George, Cleveland, Ohio. Street-cleaner. No. 1,353,047; Sept. 14; v. 278; p. 296.

Konyvka, Frank, Cleveland, Ohio. Piston. No. 1,352,460; Sept. 14; v. 278; p. 178.

Koontz, Victor R., assignor to Victor Tool Company, Waynesboro, Pa. Collapsible tap. No. 1,353,048; Sept. 14; v. 278; p. 296.

Kops Bros. (See Kops, Waldemar, assignor.)

Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Brassière. No. 1,352,974; Sept. 14; v. 278; p. 282.

Koretzky, Harry M., Brooklyn, N. Y. Portable hand-lamp. No. 1,353,348; Sept. 21; v. 278; p. 414.

Korn, Joseph, Newark, N. J. Crease-retaining device for hats. No. 1,352,975; Sept. 14; v. 278; p. 282.

Korob, Albert S., Chicago, Ill. Gripper for printing-presses. No. 1,353,808; Sept. 21; v. 278; p. 505.

Kosenko, Vasily, New Brunswick, N. J. Automatic beet-puller. No. 1,354,111; Sept. 28; v. 278; p. 611.

Kostko, Jaroslaw K., St. Louis, Mo. Dynamo-electric machine. No. 1,353,658; Sept. 21; v. 278; p. 477.

Krafft, Alfred, Honolulu, Hawaii. Direct macerating and juice-straining system. No. 1,353,349; Sept. 21; v. 278; p. 414.

Kraft, Alfred. (See Corpee, A., and Kraft.)

Kraft, Henry P., Ridgewood, N. J. Packing-washer for caps or the like. No. 1,354,201; Sept. 28; v. 278; p. 629.

Kramer, George, Dysart, Iowa. Weed-destroyer. No. 1,354,043; Sept. 28; v. 278; p. 597.

Kramer, John S., Steger, Ill. Talking-machine. No. 1,352,901; Sept. 14; v. 278; p. 267.

Kramer, John S., Steger, Ill. Locking device for drawers. No. 1,352,902; Sept. 14; v. 278; p. 267.

Krause, Arndt M., assignor to Central Scientific Company, Chicago, Ill. Mercurial barometer. No. 1,353,482; Sept. 21; v. 278; p. 440.

Kreutz, Oscar. (See Baisch, R., and Kreutz.)

Krickel, Louis H., Monroe, La. Hairpin. No. 1,353,350; Sept. 21; v. 278; p. 414.

Kries, Lawrence F., assignor to C. M. Marshall, trustee, Baltimore, Md. Cartridge-fuse. No. 1,353,123; Sept. 14; v. 278; p. 310.

Krippendorf, Paul F. W. C., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last and last-making. No. 1,352,518; Sept. 14; v. 278; p. 190.

Kristofek, Frank J., and H. L. Fischer, St. Paul, Minn. Pencil. No. 1,351,916; Sept. 7; v. 278; p. 41.

Kristofek, Frank J., and H. L. Fischer, assignors to Brown & Bigelow, St. Paul, Minn. Pencil. No. 1,353,352; Sept. 21; v. 278; p. 415.

Kronman, Edward, New York, N. Y. Coffee-urn. No. 1,352,069; Sept. 7; v. 278; p. 69.

Krotowych, Jhan, Lillian, W. Va. Window curtain and shade support. No. 1,353,122; Sept. 14; v. 278; p. 310.

Krüger, Franz, Berlin, Germany. Portable-cooker arrangement. No. 1,354,044; Sept. 28; v. 278; p. 597.

Krumland, Edward, Columbus, Nebr. Hauling attachment for automobiles. No. 1,353,762; Sept. 21; v. 278; p. 497.

Kruse, Edward H., Fort Wayne, Ind. Support for outlet-boxes. No. 1,354,309; Sept. 28; v. 278; p. 651.

Kucki, Wincent S., Chicago, Ill. Phonograph. No. 1,352,282; Sept. 7; v. 278; p. 109.

Kugler, Earl W. (See Kugler, James R., and E. W.)

Kugler, James R., and E. W., Clear Lake, Iowa., assignors to P. Hauenstein, Minneapolis, and C. C. Kastenholz, St. Paul, Minn. Electric retouching-pencil. No. 1,352,976; Sept. 14; v. 278; p. 282.

Kuhn, Anna O., San Francisco, Calif. Aseptic appliance. No. 1,351,917; Sept. 7; v. 278; p. 41.

Kuhn, Frank, L. H. Thomas, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Electrically-heated tool. No. 1,353,965; Sept. 28; v. 278; p. 581.

Kuhnen, Alexander F., Dixon, Ill., assignor to American Wagon Company, Chicago, Ill. Wagon-body. No. 1,353,351; Sept. 21; v. 278; p. 415.

Kurek, Edmund. (See Pospisil, R. E., and Kurek.)

L-W-F Engineering Company. (See Mitchell, Glenn D., assignor.)

La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Machine for making double wall-boxes. No. 1,352,283; Sept. 7; v. 278; p. 109.

La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Blank-feeder. No. 1,352,284; Sept. 7; v. 278; p. 109.

Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Sheet-metal wheel. No. 1,354,310; Sept. 28; v. 278; p. 651.

Lacoste, Emile, New Orleans, La. Violin attachment. No. 1,353,763; Sept. 21; v. 278; p. 497.

Ladd, F. C., and F. G. Neal, Springfield, assignors, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass. Paper-finishing machine. No. 1,352,611; Sept. 14; v. 278; p. 209.

Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Centrifugal pipe-casting. No. 1,351,766; Sept. 7; v. 278; p. 10.

Ladd, James B. Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Method of and apparatus for charging rotating pipe-molds. No. 1,351,767; Sept. 7; v. 278; p. 10.

Lafleche, Hermenegilde J. H., Casselman, Ontario, Canada. Potato-planter. No. 1,354,202; Sept. 28; v. 278; p. 629.

Laing, David F., McDonald Hills, Saskatchewan, Canada. Swingletree-clip. No. 1,353,049; Sept. 14; v. 278; p. 296.

Laird, Wesley E. (See Wagner, R. E., and Laird.)

La Jole, Herbert J., Orange, N. J., assignor to Autopiano Company. Expression device for automatic musical instruments. No. 1,354,045; Sept. 28; v. 278; p. 597.

Lamb, A. B., Washington, D. C., E. W. Miller, Akron, Ohio, and P. W. Carleton, Penns Grove, N. J. Respirator. No. 1,352,818; Sept. 14; v. 278; p. 352.

Lamb, James J. (See Wright, W. M., Teeples, and Lamb.)

Lambert, Emma N., assignor of one-half to P. C. Allana, Bethlehem, Pa. Game-board. No. 1,353,764; Sept. 21; v. 278; p. 497.

Lambert, Eric. (See Hope, J. F., and Lambert.)

Lambert, Frank B., Chicago, Ill. Brick machinery. No. 1,353,917; Sept. 28; v. 278; p. 571.

Lambert, Henry M., Portland, Oreg. Manufacturing tires. No. 1,351,856; Sept. 7; v. 278; p. 29.

Lambeth, Acey L., Mineral Wells, assignor of one-half to C. B. Cooper and one-half to A. L. Houston, Dallas, Tex. Underreamer for reaming out producing-sands. No. 1,353,354; Sept. 21; v. 278; p. 415.

Lambrakos, Peter, New York, N. Y. Milk-can handle. No. 1,353,050; Sept. 14; v. 278; p. 296.

Lance, Alfred F., Chicago, Ill. Spring structure. No. 1,352,612; Sept. 14; v. 278; p. 209.

Landers, Frary & Clark. (See Smith, Herbert M., assignor.)

Landgraf, Frederick K., assignor to Flannery Bolt Company, Pittsburgh, Pa. Applying and securing stayboltsleeves to boiler-sheets. No. 1,352,285; Sept. 7; v. 278; p. 110.

Landis, Abraham B., Enfield, Pa. Change-speed transmission. No. 1,353,355; Sept. 21; v. 278; p. 415.

Landrum, Francis H., Columbus, Ohio. Automatic liquid-level controller. No. 1,354,311; Sept. 28; v. 278; p. 651.

Lane Manufacturing Company. (See Mitchell, James R., assignor.)

Lane, Melvin F., *et al.* (See Howard, Albertson, assignor.)

Lang, Donald W., and A. D. Vaughn, Eldred, Pa. Spark-plug. No. 1,353,597; Sept. 21; v. 278; p. 464.

Lang, George H., Boston, Mass. Listing-machine. No. 1,352,070; Sept. 7; v. 278; p. 69.

Langan, James J., New York, N. Y. Cigarette-box. No. 1,352,613; Sept. 14; v. 278; p. 209.

Langley, Kate M. (See Mendal, Henry L., assignor.)

Langlyke, Peter I., Chicago, Ill. Spring structure for cushions. No. 1,352,977; Sept. 14; v. 278; p. 282.

Lanning, Edwin, La Casa, Tex. Door-holder. No. 1,354,046; Sept. 28; v. 278; p. 597.

Lantieri, Frank and G., Newark, N. J. Hair waver or curler. No. 1,352,978; Sept. 14; v. 278; p. 282.

Lantieri, Gabriel. (See Lantieri, Frank and G.)

Lapham, Frank W., Cicero, Ill. Carbureting-screen. No. 1,353,248; Sept. 21; v. 278; p. 394.

Larimore, George L., Oklahoma, Okla. Fencepost. No. 1,352,203; Sept. 7; v. 278; p. 94.

Larkin, Elwood T. (See Criqui, C. A., and Larkin.)

Larson, Edward E., Thompson, Iowa. Tractor. No. 1,352,286; Sept. 7; v. 278; p. 110.

Larason, Thure, assignor to Norton Company, Worcester, Mass. Grinding-wheel-balancing device. No. 1,352,005; Sept. 7; v. 278; p. 58.

Laserson, Frederick M., New York, N. Y. Electrical cloth-cutter. No. 1,353,052; Sept. 14; v. 278; p. 297.

Laserson, Frederick M., New York, N. Y. Pocket-marking machine. No. 1,353,051; Sept. 14; v. 278; p. 296.

Laserson, Frederick M., New York, N. Y. Portable saw. No. 1,352,519; Sept. 14; v. 278; p. 190.

Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Controlling means. No. 1,352,006; Sept. 7; v. 278; p. 58.

Lasko, Henry, New York, N. Y. Stamping-machine. No. 1,354,408; Sept. 28; v. 278; p. 671.

Latour, Marius, Paris, France. Generator of sustained electric waves or oscillations. No. 1,354,312; Sept. 28; v. 278; p. 657.

Laughlin, Edward A., Port Arthur, Tex. Building construction. No. 1,353,998; Sept. 28; v. 278; p. 588.

Laughton, R. E., and P. E. Barnes, assignors to Hamel Shoe Machinery Company, Haverhill, Mass. Heel-breasting machine. No. 1,352,007; Sept. 7; v. 278; p. 58.

Lauster, August P., Brooklyn, N. Y., assignor to H. F. Maynes, Gaines, Pa. Speedway amusement device. No. 1,353,918; Sept. 28; v. 278; p. 571.

Lavers, Harry I., West Somerville, Mass. Work-holding clamp. No. 1,353,353; Sept. 21; v. 278; p. 415.

Lavigne, Joseph P., assignor to United States Novelty Mfg. Co., Detroit, Mich. Packless valve. No. 1,353,053; Sept. 14; v. 278; p. 297.

Law, Charles H., Forest Hill, assignor to American Bar-Lock Company, New York, N. Y. Vault-light, skylight, or floor-light construction. No. 1,353,919; Sept. 28; v. 278; p. 571.

Lawhead, Lester A., St. Joseph, Mo. Traffic-signal. No. 1,351,857; Sept. 7; v. 278; p. 29.

Lawrence, A. C., Leather Company. (See Libby, Chester D., assignor.)

Lawrence, Athol E. N., Rustenberg, Transvaal, South Africa. Hammer for pianos and similar instruments. No. 1,353,357; Sept. 21; v. 278; p. 416.

Lawrence, Emma K. (See Lawrence, Frederick C., assignor.)

Lawrence, Frederick C., assignor to E. K. Lawrence, New York, N. Y. Aeroplane. No. 1,351,918; Sept. 7; v. 278; p. 41.

Lawrence, George L., Jr., assignor to Boston Rubber Shoe Company, Melrose, Mass. Rubber shoe and making same. No. 1,352,008; Sept. 7; v. 278; p. 58.

Lawrence, Melvin G., Revere, Mass. Fishline-spreader. No. 1,352,979; Sept. 14; v. 278; p. 283.

Lawrence Sperry Aircraft Company, The. (See Sperry, Lawrence B., assignor.)

Lawson, Frans O. (See Wright, J. B., and Lawson.)

Lawson, William E., Rahway, and W. R. Smith, Westfield, N. J. Bottle warmer and sterilizer. No. 1,354,409; Sept. 28; v. 278; p. 671.

Lawton, Charles L., Hancock, Mich. Testing device for golf-clubs. No. 1,351,768; Sept. 7; v. 278; p. 10.

La Vercombe, Harley H., Detroit, Mich. Device for expanding reamers. No. 1,353,535; Sept. 21; v. 278; p. 451.

Laydon, John, Brooklyn, N. Y.. Guard for gas-stove cocks. No. 1,352,287; Sept. 7; v. 278; p. 110.

Layton, James W., Springfield, Ill. Oil kit. No. 1,353,920; Sept. 28; v. 278; p. 571.

Leach, William F., Childress, Tex. Rolling screen. No. 1,354,313; Sept. 28; v. 278; p. 652.

Leahy, Daniel J. (See Culleton, R. A., and Leahy.)

Le Bras, Louis, New York, N. Y. Pressure-regulator. No. 1,352,288; Sept. 7; v. 278; p. 110.

Lee, Frank W., Spokane, Wash. Potato-planter. No. 1,353,356; Sept. 21; v. 278; p. 415.

Lee, Mark. (See Knight, J. J., and Lee.)

Lee, Ralph R. (See Miller, C. P., and Lee.)

Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Electric switch. No. 1,353,249; Sept. 21; v. 278; p. 394.

Leeper, George M., Oakland, Oreg. Drier attachment for stoves. No. 1,352,071; Sept. 7; v. 278; p. 69.

Lefèbvre, Paul, assignor of one-half to Societe Anonyme Les Ateliers Metallurgiques, Brussels, Belgium. Axle-box for adjustable locomotive axles. No. 1,354,112; Sept. 28; v. 278; p. 611.

Lehner, John, Pittsburgh, Pa. Suction mechanism for dental plates. No. 1,352,614; Sept. 14; v. 278; p. 209.

Lehr, George C., St. Louis, Mo. Vehicle-tire. No. 1,353,921; Sept. 28; v. 278; p. 572.

Leimbach, Lizzie T. (See Harrah, Hillis A., assignor.)

Leins, Arthur, *et al.* (See Leins, Karl, assignor.)

Leins, Karl, assignor of one-third to A. Leins, and one-third to F. Reuther, New York, N. Y. Garter. No. 1,353,483; Sept. 21; v. 278; p. 440.

Leinweber, Mary C., Weimar, Tex. Horseshoe. No. 1,351,769; Sept. 7; v. 278; p. 10.

Leist, William C., and C. Wagner, Wauseon, Ohio. Oil-burner. No. 1,354,314; Sept. 28; v. 278; p. 652.

Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Yieldable bearing for centrifugal machines. No. 1,352,204; Sept. 7; v. 278; p. 94.

Leland, Floyd L., Flint, Mich. Vacuum-cleaner. No. 1,352,520; Sept. 14; v. 278; p. 191.

Lelean, Percy S., Westminster, London, England. Disinfecting and destruction of vermin in clothes, bedding, and the like. No. 1,352,289; Sept. 7; v. 278; p. 110.

Lemoine, Louis R., Philadelphia, Pa. assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Gas-burner for pipe-molds. No. 1,351,770; Sept. 7; v. 278; p. 11.

Lenchard, Walter, McKeesport, Pa. Toy pin-board. No. 1,352,137; Sept. 7; v. 278; p. 82.

Lenholt, John E., assignor of one-half to C. R. Tainter, Guilford, Conn. Wrench. No. 1,352,461; Sept. 14; v. 278; p. 179.

Lentats, Ambrose, West Hoboken, N. J. Collar-button. No. 1,352,754; Sept. 14; v. 278; p. 238.

Leonard, Charles L., and A. F. Howard, Ionia, Mich. Beet-topping means. No. 1,353,403; Sept. 21; v. 278; p. 425.

Leonard, John E., assignor to The National Motion Picture Camera Company, Los Angeles, Calif. Double-exposure mechanism for motion-picture cameras. No. 1,352,668; Sept. 14; v. 278; p. 220.

Leonard, Joseph E., Cedar Rapids, Iowa. Tent-stove. No. 1,352,290; Sept. 7; v. 278; p. 111.

Les Successeurs d'Albert Godde. (See Selmbille, Louis E., assignor.)

Leschen, William F. (See Newsom, J. N., Harder, and Leschen.)

Leventry, Joseph, Johnstown, Pa. Railway-crosstie. No. 1,354,258; Sept. 28; v. 278; p. 641.

Leverett, Amy H., Alton, Ill. Bird-bath. No. 1,354,113; Sept. 28; v. 278; p. 612.

Levi, William I., St. Louis, Mo. Curtain-support. No. 1,351,919; Sept. 7; v. 278; p. 42.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Loading-machine. No. 1,351,953; Sept. 7; v. 278; p. 48.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,353,054; Sept. 14; v. 278; p. 297.

Levine, Saul, New York, N. Y. Pocket for garments. No. 1,354,047; Sept. 28; v. 278; p. 598.

Levy, Samuel, Knoxville, Tenn. Ice-cream dipper. No. 1,352,755; Sept. 14; v. 278; p. 238.

Levy, Samuel, Knoxville, Tenn. Ice-cream dipper. No. 1,352,756; Sept. 14; v. 278; p. 238.

Lewellen, Rosa B., Hylton, Tex. Garbage-can. No. 1,352,521; Sept. 14; v. 278; p. 191.

Lewis, Frederick K., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Top for vehicles and the like. No. 1,353,129; Sept. 14; v. 278; p. 311.

Lewis, James A., Hartford City, Ind. Groove-cutting tool. No. 1,352,522; Sept. 14; v. 278; p. 191.

Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,351,771; Sept. 7; v. 278; p. 11.

Lewis, Lloyd V., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,353,250; Sept. 21; v. 278; p. 395.

Lewis, Samuel H., New York, N. Y. Brake for motor-driven vehicles. No. 1,353,806; Sept. 21; v. 278; p. 505.

Lewis, Thomas E., Fort Worth, Tex. Apparatus for preserving and protecting poles and the like. No. 1,353,598; Sept. 21; v. 278; p. 464.

Lewis, William B. (See von Schlegell, Frederick, and Lewis.)

Lewsen, Nicolaus, Portland, Me. Tire-rim-expanding jack. No. 1,353,765; Sept. 21; v. 278; p. 497.

Libbey, Samuel R., assignor of one-half to S. H. Severson, Brady, Mont. Clamp. No. 1,351,772; Sept. 7; v. 278; p. 11.

Libby, Chester D., Malden, assignor to A. C. Lawrence Leather Company, Boston, Mass. Jointed welting. No. 1,353,251; Sept. 21; v. 278; p. 395.

Libby, Pearl A., Waldoboro, Me. Tree-protector. No. 1,353,404; Sept. 21; v. 278; p. 425.

Liberty Bread Slicer, Inc. (See Knapp, Walter C., assignor.)

Liberty Burner Co. (See Yeager, Matthias S., assignor.)

Liberty Tool Company, The. (See Baltzley, Oren F., assignor.)

Lichtman, Michael, New York, N. Y. Telescope. No. 1,353,766; Sept. 21; v. 278; p. 498.

Liebermann, Verna B. (See Smith, Harvey G., assignor.)

Liliquist, Victor A., Superior, Wis. Wrench. No. 1,352,009; Sept. 7; v. 278; p. 59.

Liming, Franz O., Chicago, Ill., assignor of one-half to J. M. Liming, Fairfield, Iowa. Door-controlling apparatus. No. 1,352,980; Sept. 14; v. 278; p. 283.

Liming, John M. (See Liming, Franz O., assignor.)

Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Wheel-retaining spindle-cap. No. 1,354,114; Sept. 28; v. 278; p. 612.

Lindgren, Alexus C., assignor, by mesne assignments, to International Harvester Company, Hamilton, Ontario, Canada. Cultivator. No. 1,354,315; Sept. 28; v. 278; p. 652.

Lindsay, John H., Brooklyn, N. Y. Water-seal vacuum-valve. No. 1,353,767; Sept. 21; v. 278; p. 498.

Lindstrom, Charles J., Clinton, Mo. Safety-guard. No. 1,354,048; Sept. 28; v. 278; p. 598.

Lindstrom, John T. (See Delley, Harvey B., assignor.)

Lindstrom, John T., Allentown, and H. R. Delley, Bethlehem, Pa.; said Delley assignor to said Lindstrom. Direction-indicator. No. 1,351,774; Sept. 7; v. 278; p. 11.

Lingle, Victor A., Lewisburg, Pa. Coil-box. No. 1,353,116; Sept. 14; v. 278; p. 309.

Link, William, Tulsa, Okla., assignor of one-third to O. G. Allison and one-third to M. Hurst, Kansas City, Mo. Diestock. No. 1,354,316; Sept. 28; v. 278; p. 652.

Linss, John D., Oklahoma, Okla. Smokehouse. No. 1,354,317; Sept. 28; v. 278; p. 652.

Lintern, John B., Cleveland, Ohio. Sanding device. No. 1,352,206; Sept. 7; v. 278; p. 94.

Lintern, William, Cleveland, Ohio. Sanding device. No. 1,352,205; Sept. 7; v. 278; p. 94.

Linton, Jesse, Philadelphia, Pa. Dish-washer. No. 1,354,049; Sept. 28; v. 278; p. 598.

Lish, Carl J., Louisville, Ky. Photographic-printing frame. No. 1,353,922; Sept. 28; v. 278; p. 572.

Litchfield, Isaac W., Newtonville, assignor to Litchfield Linoplate Co., Boston, Mass. Printing-plate and making same. No. 1,351,954; Sept. 7; v. 278; p. 48.

Litchfield Linoplate Co. (See Litchfield, Isaac W., assignor.)

Littig, Charles R., Chicago, Ill. Safety device for baling-presses. No. 1,353,252; Sept. 21; v. 278; p. 395.

Livingston, Charles F., and E. E. Lordge, San Jose, Calif. Automobile-signal. No. 1,353,253; Sept. 21; v. 278; p. 395.

Lloyd, Winfield S. (See Zeitler, Mary S., and Lloyd.)

Loadometer Company, The. (See Troll, Frederick J., assignor.)

Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Tank-car construction. No. 1,352,981; Sept. 14; v. 278; p. 283.

Loeffler, John, St. Louis, Mo. Vegetable-cutter. No. 1,353,484; Sept. 21; v. 278; p. 441.

Loewenberg, William B., Converse, Ind. Basket. No. 1,354,115; Sept. 28; v. 278; p. 612.

Logwood, Charles V., New York, N. Y. Oscillation-generator system. No. 1,351,776; Sept. 7; v. 278; p. 12.

Lokey, Allen T., Memphis, Tex. Cotton-boll-cleaning machine. No. 1,351,858; Sept. 7; v. 278; p. 29.

Lombard, Walter E., Arlington, Mass. Lifting-jack. No. 1,352,207; Sept. 7; v. 278; p. 94.

Long, Frank B., Sacramento, Calif. Articulator for phonographs. No. 1,352,291; Sept. 7; v. 278; p. 111.

Long, George A., assignor of one-fourth to C. Soby, and one-fourth to The Gray Telephone Pay Station Company, Hartford, Conn. System of transmitting intelligence. No. 1,351,775; Sept. 7; v. 278; p. 12.

Long, George A., Mooresville, Ind. Machine for handling ensilage. No. 1,353,405; Sept. 21; v. 278; p. 425.

Loug, Thomas R. (See Harwood, Sumpter L., assignor.)

Longacre, Frederick V. D., Yonkers, N. Y., assignor to The Ingersoll-Rand Company, Jersey City, N. J. Valve. No. 1,354,318; Sept. 28; v. 278; p. 653.

Longmeyer, Emanuel. (See Gracey, James G., assignor.)

Longtin, William J., Philadelphia, assignor to Allen Hosiery Company, Wayne Junction, Germantown, Philadelphia, Pa. Stocking. No. 1,353,659; Sept. 21; v. 278; p. 477.

Loog, John D., New York, N. Y. Automatic graphite-lubricating system for internal-combustion-engine cylinders. No. 1,353,055; Sept. 14; v. 278; p. 297.

Loomer, Henry M., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding device for rotary cutters. No. 1,353,254; Sept. 21; v. 278; p. 395.

Lopez, Edith L., New York, N. Y. Doll. No. 1,353,406; Sept. 21; v. 278; p. 425.

Lord, Andy W., Gerster, Mo. Wire-stretcher. No. 1,354,203; Sept. 28; v. 278; p. 629.

Lord, Henry C., assignor to General Electric Company, Schenectady, N. Y. Making flow-nozzles. No. 1,352,292; Sept. 7; v. 278; p. 111.

Lordge, Edward E. (See Livingston, C. F., and Lordge.)

Lorenz, William A., Hartford, Conn. Suction-head for disk grinding-machines. No. 1,353,966; Sept. 28; v. 278; p. 581.

Lorenz, William A., Hartford, Conn. Disk grinding-machine. No. 1,353,967; Sept. 28; v. 278; p. 581.

Loscalzo, Angelo, New York, N. Y. Safety-fender. No. 1,352,757; Sept. 14; v. 278; p. 238.

Lougheed, Wellington, Wyandotte, assignor of one-half to J. B. Sparks, Royal Oak, Mich. Door-lock. No. 1,352,819; Sept. 14; v. 278; p. 251.

Loughlin, Luke, Jersey City, N. J. Radiator. No. 1,353,768; Sept. 21; v. 278; p. 498.

Love, Ralph M. (See Vaughan, R. B., and Love.)

Lovelace, Benjamin F., Baltimore, Md. Producing oxid or oxids of manganese. No. 1,352,208; Sept. 7; v. 278; p. 95.

Lovell, Arthur, Douthat, Okla. Roofing-tile. No. 1,354,050; Sept. 28; v. 278; p. 598.

Lovell, Stanley P., Brockton, Mass. Colloid-treated fabric and producing same. No. 1,353,599; Sept. 21; v. 278; p. 464.

Lovell, Wesley S., assignor of one-half to R. R. Rockwell, Elmira, N. Y. Gearing. No. 1,352,293; Sept. 7; v. 278; p. 111.

Lowd, Wesley H., Glen Frazer, Calif. Train classification and number indicator. No. 1,354,437; Sept. 28; v. 278; p. 677.

Lowe, Leon P., San Francisco, and F. C. Ruff, Los Angeles, assignors to By-Products Manufacturing Company, San Francisco, Calif. Cracking petroleum. No. 1,351,850; Sept. 7; v. 278; p. 29.

Lowe, Robert G., Clawson, Mich. Sand-sifter. No. 1,354,319; Sept. 28; v. 278; p. 653.

Lowry, Frank J., New Orleans, La. Artificial limb. No. 1,351,955; Sept. 7; v. 278; p. 49.

Lucas, Earl S., Randolph, Iowa. Motor-driven tractor-cultivator. No. 1,353,923; Sept. 28; v. 278; p. 572.

Lucas, Earl S., Randolph, Iowa. Cultivator. No. 1,353,924; Sept. 28; v. 278; p. 572.

Ludwig, Charles S., Trenton, N. J. Jelly-strainer. No. 1,353,056; Sept. 14; v. 278; p. 298.

Ludwig & Ludwig. (See Danly, Robert C., assignor.)

Lum, Walter O., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,352,462; Sept. 14; v. 278; p. 179.

Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Call-registering system. No. 1,354,051; Sept. 28; v. 278; p. 598.

Lundqvist, Nils H., assignor of one-half to C. Park, New Haven, Conn. Valve-spring lifter. No. 1,353,255; Sept. 21; v 278; p 396

Lurie, William A., New Orleans, La. Door-lock. No. 1,352,010; Sept. 7; v. 278; p. 59.

Lusk, Raymond F., assignor of one-half to J. H. Monroe, Lima, Ohio. Shaft-bearing. No. 1,354,259; Sept. 28; v. 278; p. 641.

Luther, William M., Walla Walla, Wash. Dehydrator. No. 1,353,167; Sept. 21; v. 278; p. 378.

Lüthi, Josef A., Lachen-Vonwil, Switzerland. Snap-hook. No. 1,352,082; Sept. 14; v. 278; p. 283.

Lynn, John P. (See Kaufmann, M. M., and Lynn.)

Lynn, Walter R. (See Barker, F. B., and Soper.)

Lyon & Healy. (See Jefferson, B. H., and Kirk, assignors.)

Lyon & Healy. (See Kirk, Walter I., assignor.)

Lyons, Alfred E., San Jose, Calif. Auto-top. No. 1,353,925; Sept. 28; v. 278; p. 572.

Lyster, Fleury J., assignor, by mesne assignments, to Minerals Separation North American Corporation, Broken Hill, New South Wales, Australia. Apparatus for the concentration of ores. No. 1,352,072; Sept. 7; v. 278; p. 69.

McArthur, George P., Rockledge, Pa. Pipe-bending mechanism. No. 1,353,168; Sept. 21; v. 278; p. 379.

McBride, James P., Seattle, Wash. Bolting-up and plate-tightening machine. No. 1,353,600; Sept. 21; v. 278; p. 464.

McCabe, Thomas W. R., Waterbury, Conn., assignor to C. H. Hasbrouck, Binghamton, N. Y. Check-printing machine. No. 1,353,926; Sept. 28; v. 278; p. 573.

McCallum, Daniel W., St. Louis, Mo. Automatic gate. No. 1,354,320; Sept. 28; v. 278; p. 653.

McCarroll, Frank, Dallas, Tex. Foldable landing-gear for aeroplanes. No. 1,353,407; Sept. 21; v. 278; p. 425.

McCarthy, Maurice P., Hartford, Conn. Galting-strap. No. 1,354,410; Sept. 28; v. 278; p. 671.

McClellan, James L., Brookline, Mass. Shoe-stiffener. No. 1,353,968; Sept. 28; v. 278; p. 581.

McConnell, Nathaniel W., Florence, Colo. Suspender. No. 1,352,903; Sept. 14; v. 278; p. 268.

McCorkindale, William P., Holyoke, Mass., assignor to Emily K. Dietz, Philadelphia, Pa. Towel-dispensing cabinet. No. 1,351,956; Sept. 7; v. 278; p. 49.

McCormack, Andrew J., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-edge-treating machine. No. 1,352,209; Sept. 7; v. 278; p. 95.

McCormack, Ira A., New York, N. Y. Seal for locks. No. 1,352,073; Sept. 7; v. 278; p. 70.

McCormick, Loyd S., Leavenworth, Kans. Automobile-steering-post lock. No. 1,353,408; Sept. 21; v. 278; p. 425.

McCormick, Merton H., New Willard, Tex. Band-saw. No. 1,354,439; Sept. 28; v. 278; p. 677.

McCracken, Lemuel C., Brush, Colo. Wagon-body lifter. No. 1,353,838; Sept. 28; v. 278; p. 555.

McCray, Gulliford, Tomales, Calif. Egg-washer. No. 1,352,138; Sept. 7; v. 278; p. 82.

McDermott, Frank A., Washington, D. C. Extracting oils from the peel of citrus fruits. No. 1,353,169; Sept. 21; v. 278; p. 379.

McDill, Ottis A. (See Benton, George T., assignor.)

McDonald, William, Twin Falls, Idaho. Two-way mower. No. 1,354,052; Sept. 28; v. 278; p. 599.

McDonough, Joseph G., Eau Claire, Wis. Lumber and timber grading machine. No. 1,351,777; Sept. 7; v. 278; p. 12.

McDowell, Albert, Los Angeles, Calif. Boat-listing apparatus. No. 1,354,204; Sept. 28; v. 278; p. 630.

McEachern, Dougald, Nelson, British Columbia, Canada. Rail-joint. No. 1,352,669; Sept. 14; v. 278; p. 221.

McEown, Frank, New York, N. Y. Safety-razor-blade holder. No. 1,352,011; Sept. 7; v. 278; p. 59.

McEvoy, John P., Sourlake, Tex. Valve structure for oil-wells. No. 1,353,409; Sept. 21; v. 278; p. 426.

McFate, Joseph N., Phoenix, Ariz., and H. L. Glaze, Los Angeles, Calif.; said Glaze assignor of four-tenths of his right to said McFate. Tire. No. 1,352,074; Sept. 7; v. 278; p. 70.

McGall, Albert, assignor to Tubal Corporation, New York, N. Y. Safety-razor-blade sharpener. No. 1,353,485; Sept. 21; v. 278; p. 441.

McGarry, Henry S., and J. D. Carr, Humble, Tex. Casing-head. No. 1,352,075; Sept. 7; v. 278; p. 70.

McGary, Alexander, *et al.* (See Bear, Claude A., assignor.)

McGhee, Jesse M., Estancia, N. Mex. Convertible wardrobe-bed. No. 1,353,536; Sept. 21; v. 278; p. 451.

McGinnitey, John F. (See Cox, R. C., and McGinnitey.)

McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,351,800; Sept. 7; v. 278; p. 29.

McGuire, Lawrence. (See Howell, Charles S., assignor.)

McIntosh Battery and Optical Co. (See MacLagan, Hector P., assignor.)

McKallip, John C., Houston, Tex. Gasoline-measuring device. No. 1,352,820; Sept. 14; v. 278; p. 251.

McKay, Hugh V., Sunshine, Victoria, Australia. Threshing-machine. No. 1,352,821; Sept. 14; v. 278; p. 252.

McKechnie, James, Barrow-in-Furness, England, assignor to Vickers Limited, London, England. Valve-gear of internal-combustion engines. No. 1,352,758; Sept. 14; v. 278; p. 239.

McKenzie, Walter, Tulsa, Okla. Tool-handle. No. 1,352,012; Sept. 7; v. 278, p. 59.

McKiernan, Elbert, Fort Madison, Iowa. Draft-regulator. No. 1,352,670; Sept. 14; v. 278; p. 221.

McKimmy, Fred, Beaver Dam, Ohio. Fishing-reel. No. 1,353,170; Sept. 21; v. 278; p. 380.

McKnight, Boyd L., assignor of one-half to J. E. Uebele, Washington, D. C. Necktie-pressing device. No. 1,352,294; Sept. 7; v. 278; p. 111.

McLaughlin, Frank, Philadelphia, Pa. Lather-brush for powdered soap. No. 1,354,053; Sept. 28; v. 278; p. 599.

McLellan, Charles T., Sioux City, Iowa. Egg-candler. No. 1,352,822; Sept. 14; v. 278; p. 252.

McMath, John F., Oakland, Calif. Casting device. No. 1,352,523; Sept. 14; v. 278; p. 191.

McMyler Interstate Company, The. (See Kaltenbach, Robert W., assignor.)

McNeal, Joseph W., St. Paul, Minn. Checkrow corn-planter. No. 1,353,927; Sept. 28; v. 278; p. 573.

McNeil, Charles H., Beverly, Mass. Weight-operated circuit-closer. No. 1,353,057; Sept. 14; v. 278; p. 298.

McPhail, Archibald, Fargo, N. D., assignor to Sterling Machine and Wire Works, Beneficial Trust Association (Unincorporated), Sterling, Ill. Machine for manufacturing spiral combined reinforcement and fastening. No. 1,352,904; Sept. 14; v. 278; p. 268.

McQuat, Elizabeth, New York, N. Y. Music-chart. No. 1,353,486; Sept. 21; v. 278; p. 441.

McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,353,601; Sept. 21; v. 278; p. 465.

McQueen, Mert, Van Hook, N. D. Stone-digging machine. No. 1,354,321; Sept. 28; v. 278; p. 653.

McWilliams, Rowland, Glen Ridge, N. J. Reinforced concrete construction. No. 1,353,770; Sept. 21; v. 278; p. 498.

Macbeth, Colin, and W. E. Hardeman, Birmingham, assignors to The Dunlop Rubber Company, Limited, Westminster, England. Manufacture of solid rubber tires. No. 1,353,769; Sept. 21; v. 278; p. 498.

MacDonald, Angus, Melrose, Mass. Headrest attachment for beds. No. 1,353,537; Sept. 21; v. 278; p. 451.

Machrol, Michael, Kenosha, Wis. Fly-wheel balancer. No. 1,352,905; Sept. 14; v. 278; p. 268.

MacIndoe, John F., Schuylkill Falls, Pa. Grease-cup. No. 1,353,171; Sept. 21; v. 278; p. 380.

Mackintosh, Alexander L. (See Riddick, David R., assignor.)

MacLagan, Hector P., Park Ridge, assignor to McIntosh Battery and Optical Co., Chicago, Ill. X-ray cone. No. 1,352,198; Sept. 7; v. 278; p. 93.

MacLagan, H. P., Park Ridge, assignor to McIntosh Battery and Optical Co., Chicago, Ill. Cassette. No. 1,352,615; Sept. 14; v. 278; p. 209.

Maclaren, James G., Mamaroneck, N. Y. Governing mechanism for despatch systems. No. 1,354,116; Sept. 28; v. 278; p. 612.

Madden, Patrick H., Sparta, Wis. Rail-truck. No. 1,352,076; Sept. 7; v. 278; p. 70.

Madrin, Leonard B., Houston, Tex. Gate-valve lock. No. 1,354,322; Sept. 28; v. 278; p. 653.

Madsen, Elith C., Hazleton, Pa. Ash, cinder, and coal separator. No. 1,351,861; Sept. 7; v. 278; p. 30.

Maegly, George B., Kansas City, Mo., assignor to Stromberg Motor Devices Company, Chicago, Ill. Apparatus for supplying fuel to hydrocarbon-motors. No. 1,352,671 Sept. 14; v. 278; p. 221.

Magnolia Company, The. (See Bobo, Walton E., assignor.)

Magnuson, Carl A., Portland, Oreg. Nut-lock. No. 1,353,602; Sept. 21; v. 278; p. 465.

Magnuson, Henry O., Chicago, Ill. Molding-machine. No. 1,352,295; Sept. 7; v. 278; p. 112.

Maguire, William, and A. Bausch, Brooklyn, N. Y. Snap for bracelets. No. 1,353,772; Sept. 21; v. 278; p. 499.

Maguth, Michael J., Carlstadt, N. J. Clamping device. No. 1,352,296; Sept. 7; v. 278; p. 112.

Mahoney, James. (See Salmons, C. C., and Mahoney.)

Mahtes, Anthony, Dexterville, Wis., assignor of one-third to J. Maskoliunas and one-third to J. Skinder, Chicago, Ill. Berry-picker. No. 1,353,172; Sept. 21; v. 278; p. 380.

Main, F. P., Cleveland, Ohio. Serving-table. No. 1,353,660; Sept. 21; v. 278; p. 477.

Maisel, Lorenz, assignor to Burgess Battery Company, Madison, Wis. Battery hand-lamp. No. 1,354,323; Sept. 28; v. 278; p. 654.

Malby, Seth G., Derby, assignor to Ansonia Manufacturing Company, Ansonia, Conn. Safety-razor. No. 1,353,603; Sept. 21; v. 278; p. 465.
Malcolm, James. (See Preston, J. C., and Malcolm.)
Malik, John, Pittsburgh, Pa. Railway-track construction. No. 1,353,771; Sept. 21; v. 278; p. 499.
Malmberg, Charles J., Jamestown, N. Y. Talking-machine case. No. 1,351,778. Sept. 7; v. 278; p. 12.
Malone, Eugene Y., Mobile, Ala. Automobile-tire. No. 1,354,411; Sept. 28; v. 278; p. 671.
Malsbary, Otis G., Parlier, Calif. Track-laying wheel. No. 1,353,256; Sept. 21; v. 278; p. 396.
Maltby, Frank D. (See Sherman, H. B., and Maltby.)
Mamiya, Katsusaburo, Ohito, assignor to Kabushiki-Kwaisha Mamiyado, Tokyo, Japan. Anchoring device for safes. No. 1,352,906; Sept. 14; v. 278; p. 268.
Mample, Adolph Z., St. Paul, Minn. Electric combination-lock. No. 1,353,257; Sept. 21; v. 278; p. 396.
Mandelbaum, Henry, Brooklyn, N. Y. Compressed-air pump. No. 1,352,013; Sept. 7; v. 278; p. 59.
Mangnall, Arthur R., Chester, and R. F. Irving, Clifton, Bristol, England. Earth-boring machine. No. 1,354,054; Sept. 28; v. 278; p. 599.
Manifold Impressions Corporation. (See Cossitt, Malcolm L., assignor.)
Manly, Walter D., Shackelford county, Tex. Wire-stretching tool. No. 1,352,983; Sept. 14; v. 278; p. 283.
Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Binder. No. 1,354,205; Sept. 28; v. 278; p. 630.
Marble and Shattuck Chair Company, The. (See Onsrud, Oscar, assignor.)
Marceron, Raymond V., assignor to F. H. Newham, Jr., Washington, D. C. Container and closure therefor. No. 1,351,920; Sept. 7; v. 278; p. 42.
Marchius, Christ, Portland, Oreg. Gill-net retriever. No. 1,353,604; Sept. 21; v. 278; p. 465.
Marechal, Pierre M. G. (See Hervieu, G., and Marechal.)
Mariner, Joseph A., Chicago, Ill. Collar-holder. No. 1,352,139; Sept. 7; v. 278; p. 82.
Mariner, Joseph A., Chicago, Ill. Collar and tie holder. No. 1,353,969; Sept. 28; v. 278; p. 582.
Markert, John P., New York, N. Y. Carton. No. 1,352,759; Sept. 14; v. 278; p. 239.
Market Garden Tractor Co. (See Ford, Paul B., assignor.)
Marks, Willard C., assignor to Spang, Chalfant & Co., Incorporated, Etna, Pa. Die-head. No. 1,352,823; Sept. 14; v. 278; p. 252.
Markwick, Frederick, Detroit, Mich. Sack-fastener. No. 1,351,958; Sept. 7; v. 278; p. 49.
Marsh, Edward, Washington, D. C. Toy bucket. No. 1,352,463; Sept. 14; v. 278; p. 179.
Marsh, Howard E. (See Starr, E. B., and Marsh.)
Marsh, William J., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Treating copper-bearing alloys. No. 1,353,773; Sept. 21; v. 278; p. 499.
Marshall, Charles M., trustee. (See Kries, Lawrence F., assignor.)
Marshall, George M., Lake Francis, Manitoba, Canada. Submarine-detector. No. 1,353,410; Sept. 21; v. 278; p. 426.
Marshall, Homer F., North Adams, Mass. Picker-stick for looms. No. 1,352,297; Sept. 7; v. 278; p. 112.
Martin, Alfred V. P., Brooklyn, N. Y. Hair-curler. No. 1,354,117; Sept. 28; v. 278; p. 612.
Martin, Asa L. (See Martin, Clark W., assignor.)
Martin, Clara A., Pasadena, Calif. Button-buckle for garments. No. 1,354,260; Sept. 28; v. 278; p. 642.
Martin, Clark W., assignor of one-half to A. L. Martin, North Union township, Fayette county, Pa. Gee-strap. No. 1,352,672; Sept. 14; v. 278; p. 221.
Martin, Elizabeth M., Sterling Ill. Combination-boiler. No. 1,352,824; Sept. 14; v. 278; p. 252.
Martin, Ernest L., Houston, Tex. Landing device for aeroplanes. No. 1,352,077; Sept. 7; v. 278; p. 71.
Martin, Frank, Chandler, Okla. Auto-tire changer. No. 1,354,118; Sept. 28; v. 278; p. 613.
Martin, Friedrick. (See Hinz, Leo, assignor.)
Martin, Louis L., Toronto, Ontario, Canada. Perfumier. No. 1,353,258; Sept. 21; v. 278; p. 396.
Martin-Lumaghi Manufacturing Company. (See Cochran, John J., assignor.)
Martin, Max, New York, N. Y. Making vases. No. 1,353,928; Sept. 28; v. 278; p. 573.
Martin, Thomas P., Jr., Oklahoma, Okla. Pass-book. No. 1,352,907; Sept. 14; v. 278; p. 269.
Marx, J. F. (See Scully, G. H. and J. B., assignors.)
Maskoliunas, Jacob *et al.* (See Mahtes, Anthony, assignor.)
Mason, Arnold T., Hampstead, London, England. Book. No. 1,353,774; Sept. 21; v. 278; p. 499.
Massoline, Peter D., Jersey City, N. J., and L. Ronca, New York, N. Y. Steering-wheel lock for motor-vehicles. No. 1,353,487; Sept. 21; v. 278; p. 441.
Mathe, Joseph J. (See Fleming, I., and Hill, assignors.)
Mather, Alonzo C., Chicago, Ill. Electric heater. No. 1,351,779; Sept. 7; v. 278. p. 12.
Mather, Marion, Olean, N. Y. Card-exhibitor. No. 1,354,261; Sept. 28; v. 278; p. 642.
Mathieu, Frederick W., New York, N. Y. Globe for lighting-fixtures. No. 1,354,262; Sept. 28; v. 278; p. 642.
Matlack, James C., assignor to Notaseme Hosiery Company, Philadelphia, Pa. Stocking. No. 1,352,078; Sept. 7; v. 278; p. 71.
Matteson, Frederick R., Taunton, assignor to Freeman-Daughaday Company, Chartley, Mass. Separable cuff-button. No. 1,352,908; Sept. 14; v. 278; p. 269.
Maupai, Eugene L., New York, N. Y. Dyeing raw silk. No. 1,352,014; Sept. 7; v. 278; p. 5.
Max Ams Machine Company, The. (See Brenzinger, Maxwell, Thomas A. Chanute, Kans. Hair-cutting device. No. 1,353,173; Sept. 21; v. 278; p. 380.
Julius, assignor.)
Mayer, Waldemar F., Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Machine-tool control. No. 1,352,673; Sept. 14; v. 278; p. 222.
Mayers, Joseph A., New York, N. Y. Instantaneous water-heater. No. 1,353,174; Sept. 21; v. 278; p. 381.
Maynes, Hyla F. (See Lauster, August P., assignor.)
Maynes, Hyla F., Gaines, Pa. Amusement apparatus. No. 1,353,929; Sept. 28; v. 278; p. 573.
Maytag Company, The. (See Thompson, Herbert L., assignor.)
Maxwell, George W., Chicago, Ill. Embroidering device. No. 1,354,119; Sept. 28; v. 278; p. 613.
Mazna, James F., *et al.* (See Anderson, Albert L., assignor.)
Mead, Francis. (See Duffies, A. S., and Mead.)
Mead, William C., Toronto, Ontario, Canada. Air-valve. No. 1,351,780; Sept. 7; v. 278; p. 12.
Mears, John W., Forest Hills, N. Y. Lubricant distributer and filter for internal-combustion engines. No. 1,352,298; Sept. 7; v. 278; p. 112.
Mechanical Rubber Company. (See Jamieson, Frank F., assignor.)
Meckay, John, *et al.* (See Akin, Delbert A., assignor.)
Meeks, Annie L., Gadsden, Ala. Automobile-tire. No. 1,352,375; Sept. 7; v. 278; p. 126.
Meier, Albert J., Glendale, Mo. Power-generating system. No. 1,352,616; Sept. 14; v. 278; p. 210.
Meller, John B., assignor to R. A. Percival, New York, N. Y. Valve-spring lifter. No. 1,354,412; Sept. 28; v. 278; p. 672.
Mendel, Henry L., assignor of one-fourth to K. M. Langley, Baltimore, Md. Combination cooking device. No. 1,351,921; Sept. 7; v. 278; p. 42.
Mendez, Arsenio F., Camajuani, Cuba. Liquid polish. No. 1,352,015. Sept. 7; v. 278; p. 59.
Mengel Box Company. (See Sliger, Oscar, assignor.)
Menkhaus, John H., Cincinnati, Ohio. Squeegee. No. 1,351,862; Sept. 7; v. 278; p. 30.
Meleg, Joseph, Beaver Falls, Pa. Resilient wheel. No. 1,353,175; Sept. 21; v. 278; p. 381.
Mercer Tire Company. (See Dech, Henry, assignor.)
Meredith, W. C., and W. C. Willis, assignors of one-third to R. H. White, Atlanta, Ga. Boring-tool. No. 1,352,825; Sept. 14; v. 278; p. 252.
Merkel, Herman, East Orange, and J. Buecher, Newark, N. J. Pin-receiving tab for garments. No. 1,353,930; Sept. 28; v. 278; p. 574.
Mersman, Clarence A., Hubbard, Iowa. Fruit-jar vise. No. 1,353,058; Sept. 14; v. 278; p. 298.
Mertz, Emil, Tygh Valley, Oreg. Folding crate. No. 1,352,299; Sept. 7; v. 278; p. 112.
Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)
Metzger, Modeste A., Chicago, Ill. Door. No. 1,353,176; Sept. 21; v. 278; p. 381.
Meushaw, Thomas H., and C. J. Diez, Baltimore, Md. Fire-plug. No. 1,351,781; Sept. 7; v. 278; p. 13.
Meyer, A. F., Mfg. Co. (See Getz, Benjamin E., assignor.)
Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus. No. 1,353,915; Sept. 21; v. 278; p. 506.
Meyer, Henry H., Red Wing, Minn. Grain-separator. No. 1,353,059; Sept. 14; v. 278; p. 298.
Meyer, William, Chicago, Ill. Optical apparatus. No. 1,353,259; Sept. 21; v. 278; p. 396.
Meyers, Henry J., Los Angeles, Calif. Folding bed. No. 1,352,909; Sept. 14; v. 278; p. 269.
Michalek, Frank, Chicago, Ill. Noodle-machine. No. 1,352,826; Sept. 14; v. 278; p. 253.
Micks, Ransom R. (See Kime, Benjamin J., assignor.)
Mieske, Herman A., Fall Creek, Wis. Four-wheel drive for automobiles and similar vehicles. No. 1,353,411; Sept. 21; v. 278; p. 426.
Milburn, Aaron, Halls Prairie, British Columbia, Canada. Lantern-globe. No. 1,353,839; Sept. 28; v. 278; p. 555.
Miller, Augustus, East Orange, N. J. Dating-stamp lock. No. 1,352,300; Sept. 7; v. 278; p. 113.
Miller, Carl P., and R. R. Lee, Fargo, N. D. Seed-potato cutter. No. 1,354,263; Sept. 28; v. 278; p. 642.
Miller, Carl P, Fargo, N. D. Road-grader. No. 1,354,264; Sept. 28; v. 278; p. 642.
Miller, Charles, F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple-retort underfeed stoker. No. 1,352,464; Sept. 14; v. 278; p. 179.
Miller, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple-feed horizontal underfeed stoker. No. 1,352,465; Sept. 14; v. 278; p. 179.
Miller, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Underfeed stoker and draft-controlling mechanism therefor. No. 1,352,466; Sept. 14; v. 278; p. 180.

Miller, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple section horizontal underfeed stoker. No. 1,352,467; Sept. 14; v. 278; p. 180.
Miller, Ellis, New York, N. Y. Growing plants. No. 1,353,931; Sept. 28; v. 278; p. 574.
Miller, Elton W. (See Lamb, A. B., Miller, and Carleton.)
Miller, Ernest W., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Safety device for extractors. No. 1,352,827; Sept. 14; v. 278; p. 253.
Miller, Frank P., Downingtown, Pa. Screen-box for paper-making machines. No. 1,354,324; Sept. 28; v. 278; p. 654.
Miller, Franklin P., East Orange, N. J. Ice-cream-making machine. No. 1,352,984; Sept. 14; v. 278; p. 283.
Miller, Jacob H., Cresson, Pa. Grease-cup lid. No. 1,351,922; Sept. 7; v. 278; p. 42.
Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Feeding means for circular knitting-machines. No. 1,352,079; Sept. 7; v. 278; p. 71.
Miller Pasteurizing Machine Company, The. (See Pfouts, Leroy S., assignor.)
Miller Rubber Company, The. (See Riley, Ralph E., assignor.)
Miller, Thomas O., San Antonio, Tex. Street-traffic signal. No. 1,353,999; Sept. 28; v. 278; p. 588.
Milligan, Walker M., Seattle, Wash. Grinding-machine. No. 1,354,456; Sept. 28; v. 278; p. 680.
Mills, Asbery T., Richland, Iowa. Automatic-locking spring-washer. No. 1,353,776; Sept. 21; v. 278; p. 499.
Mills, Chester B., East McKeesport, and C. E. Wilson, Wilkinburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Starting system for automobiles. No. 1,352,468; Sept. 14; v. 278; p. 480.
Mills, John, assignor to American Telephone and Telegraph Company, Wyoming, N. J. Telephone-repeater. No. 1,351,863; Sept. 7; v. 278. p. 30.
Mills, John, assignor to American Telephone and Telegraph Company, Wyoming, N. J. Four-wire circuit. No. 1,352,828; Sept. 14; v. 278; p. 253.
Milnor, Joseph W., assignor to The Western Union Telegraph Company, New York, N. Y. Voltage-regulator for direct and alternating current generators. No. 1,353,000; Sept. 14; v. 278; p. 298.
Milwaukee Corrugating Company. (See Whetstone, Frank M., assignor.)
Milwaukee Electric Railway & Light Company, The. (See Mullett, Howard A., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Minerals Separation North American Corporation. (See Lyster, Fleury J., assignor.)
Minnich, Otto J., Boerne, Tex. Fastening device for fence-wires. No. 1,351,959; Sept. 7; v. 278; p. 49.
Mise, Tetsuhei, Watakano, assignor to Dai-Nippon Enkei Shinju Kabushiki Kwaisha, Shimo-Ochiai-Mura, Toyotama-Gun, Tokyo-Fu, Japan. Forming artificial pearls. No. 1,353,932; Sept. 28; v. 278; p. 574.
Miskin, Arthur R., Idaho Falls, Idaho. Earth-scraper. No. 1,352,301; Sept. 7; v. 278; p. 113.
Mitchell, Alexander, Pueblo, Colo. Plow. No. 1,351,782; Sept. 7; v. 278; p. 13.
Mitchel, Charles F., assignor to Bastian Bros. Company, Rochester, N. Y. Pinwheel. No. 1,352,674; Sept. 14; v. 278; p. 222.
Mitchell, Glenn D., assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, N. Y. Strut construction. No. 1,353,538; Sept. 21; v. 278; p. 451.
Mitchell, James R., assignor to Lane Manufacturing Company, Montpelier, Vt. Stone-polishing wheel. No. 1,354,325; Sept. 28; v. 278; p. 654.
Mitchell, John E., W. Wolfe, and D. Parks, St. Louis, Mo. Heel-building machine. No. 1,352,302; Sept. 7; v. 278; p. 113.
Mitchell, Raymond C., assignor to The Webster & Perks Tool Company, Springfield, Ohio. Shaft-cooling means for grinding-machines and the like. No. 1,352,303; Sept. 7; v. 278; p. 113.
Mittet, Hans P., Aalesund, Norway. Apparatus for hard-twisting of fine and thick threads. No. 1,352,524; Sept. 14; v. 278; p. 191.
Mix, Edwin S., assignor to North East Electric Company, Rochester, N. Y. Box. No. 1,352,016; Sept. 7; v. 278; p. 59.
Moeglin, Alfred, Newark, N. J. Internal-combustion engine. No. 1,351,783; Sept. 7; v. 278; p. 13.
Moeller, Gustav W., Harris, Iowa. Accounting and record device. No. 1,351,864; Sept. 7; v. 278; p. 30.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,352,675; Sept. 14; v. 278; p. 222.
Molyneux, Fred, Cadishead, England. Variable-speed transmission-gear. No. 1,353,775; Sept. 21; v. 278; p. 499.
Monarch Lithographing Company. (See Rothenhoefer, Frederick F., assignor.)
Monks, Frederick I., Houston, Tex. Mattress-support. No. 1,353,260; Sept. 21; v. 278; p. 397.
Monroe, John H. (See Lusk, Raymond F., assignor.)
Montelius, Ernst E. L., New York, N. Y. Door-lock. No. 1,352,804; Sept. 7; v. 278; p. 113.
Montgomery, Harry A., Baltimore, Md. Portable testing apparatus for water-distributing systems of railway passenger-cars. No. 1,353,810; Sept. 21; v. 278; p. 506.
Montuori, Felix C., assignor of one-half to C. M. Gearhart, Washington, D. C. Dental casting-machine. No. 1,352,080; Sept. 7; v. 278; p. 71.
Moody, Philip E., *et al.* (See Hachmann, Frederick, assignor.)
Moody, William E., Columbus, Ohio, assignor to J. B. Jones, Switchback, W. Va. Packing. No. 1,353,840; Sept. 28; v. 278; p. 556.
Moore, Benjamin S. (See Hellmund, R. E., and Moore.)
Moore, Charles A., St. Paul, Minn. Heater. No. 1,352,676; Sept. 14; v. 278; p. 222.
Moore, David H., Port Clinton, Ohio. Vehicle-tire. No. 1,352,305; Sept. 7; v. 278; p. 114.
Moore, George L. Nut-lock. No. 1,353,777; Sept. 21; v. 278; p. 500.
Moore, Henry N., assignor to Tractor-Train Company, Los Angeles, Calif. Transmission mechanism. (Reissue.) No. 14,952; Sept. 28; v. 278; p. 681.
Moore, James A., assignor of one-half to J. Young, Weir, Kans. Hoop-rolling device. No. 1,353,778; Sept. 21; v. 278; p. 500.
Moore, James W., assignor to Atlanta Utility Works, East Point, Ga. Fertilizer-mixer. No. 1,354,326; Sept. 28; v. 278; p. 654.
Moore, John T., Eureka, Calif. Trolling-spoon. No. 1,353,779; Sept. 21; v. 278; p. 500.
Moore, Wade W., Pittsburgh, Pa., assignor to Jesse H. Roach, Oakland, Calif. Eraser attachment for pencils. No. 1,352,677; Sept. 14; v. 278; p. 222.
Moran, John F., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,352,081; Sept. 7; v. 278; p. 71.
Moratz, Paul O., Bloomington, assignor to B. C. Silver, Chicago, Ill. Child's vehicle. No. 1,354,121; Sept. 28; v. 278; p. 613.
Morden, Millicen, Brooklyn, N. Y., and W. C. Hess, Toledo, Ohio. Carbureter. No. 1,354,327; Sept. 28; v. 278; p. 654.
Morehead, John, Detroit, Mich. Steam-trap. No. 1,352,617; Sept. 14; v. 278; p. 210.
Morgal, John F., assignor to The E. W. Ross Company, Springfield, Ohio. Cutting and distributing device for silo-fillers. No. 1,353,261; Sept. 21; v. 278; p. 397.
Morgan Construction Company. (See Sheperdson, John W., assignor.)
Morris, Elby A., Leetonia, Ohio. Trolley-retriever. No. 1,353,262; Sept. 21; v. 278; p. 397.
Morris, Herbert, Limited. (See Butterworth, Joseph A., assignor.)
Morris, Howard I., assignor to Morris Tire Machinery Company, Los Angeles, Calif. Apparatus for laying or forming tire-treads. No. 1,353,933; Sept. 28; v. 278; p. 574
Morris, Howard I., assignor to Morris Tire Machinery Company, Los Angeles, Calif. Method and machine for making the rubber elements for tires, laminated tire-treads, &c. No. 1,353,934; Sept. 28; v. 278; p. 574.
Morris, Thomas F. Waterford, N. Y. Snap-fastener. No. 1,352,374; Sept. 7; v. 278; p. 126.
Morris Tire Machinery Company. (See Morris, Howard I., assignor.)
Morrison, David. (See Cattin, G. L., and Morrison.)
Morrison, Seymour, Indianapolis, Ind. Folded paper-board filler for boxes. No. 1,354,413; Sept. 28; v. 278; p. 672.
Morse Chain Company. (See Morse, Frank L., assignor.)
Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Multiplate drive-chain. No. 1,352,017; Sept. 7; v. 278; p. 60.
Mortensen, Jens, New York, assignor to Fred Goat Company, Brooklyn, N. Y. Looper mechanism for tension envelop-machines. No. 1,354,328; Sept. 28; v. 278; p. 655.
Morton, James C., Auckland, New Zealand. Condensing apparatus. No. 1,354,122; Sept. 28; v. 278; p. 613.
Moser, Albert F., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,354,329; Sept. 28; v. 278; p. 655.
Moskowitz, Louis. (See Cohon, J., and Moskowitz.)
Mott, Daniel V., assignor to E. G. Daniels, Fernie, British Columbia, Canada. Rail securing and supporting means. No. 1,354,000; Sept. 28; v. 278; p. 588.
Mott, Robert L., St. Louis, Mo. Syringe. No. 1,352,306; Sept. 7; v. 278; p. 114.
Mount, William D., Saltville, Va., assignor to Nitrogen Products Company, Providence, R. I. Apparatus for recovering material from solution. No. 1,352,210; Sept. 7; v. 278; p. 95.
Mowry, Joseph R., Cleveland, Ohio. Locomotive check-valve. No. 1,354,440; Sept. 28; v. 278; p. 677.
Moyers, Oscar C., assignor of one-fourth to W. A. Moyers, Crosbyton, Tex. Flash-eliminator. No. 1,351,960; Sept. 7; v. 278; p. 49.
Moyers, William A. (See Moyers, Oscar C., assignor.)
Mueller, H., Manufacturing Co. (See Haley, George S.)
Mueller, H., Manufacturing Co. (See O'Dell, Frank T., assignor.)
Mueller, John G., Dayton, Ohio. Rail-brace. No. 1,353,412; Sept. 21; v. 278; p. 426.
Mueller, John L., St. Louis, Mo. Measuring and cutting mechanism. No. 1,353,661; Sept. 21; v. 278; p. 477.

Mueller, Matilda, Rugby, N. D. Toothbrush. No. 1,353,780; Sept. 21; v. 278; p. 500.
Mullen, George B., Bay Side, N. Y. Dust-cap for tire-valves. No. 1,353,001; Sept. 14; v. 278; p. 209.
Müller, Emil, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Homologue of tropine and producing same. No. 1,352,082; Sept. 7; v. 278; p. 71.
Muller, Max, New York, N. Y. Hair-waving. No. 1,354,414; Sept. 28; v. 278; p. 672.
Mullett, Howard A., Wauwatosa, assignor to The Milwaukee Electric Railway & Light Company, Milwaukee, Wis. Fare-box. No. 1,353,970; Sept. 28; v. 278; p. 582.
Mulligan, John A., Narragansett Pier, R. I. Envelope-opener. No. 1,353,413; Sept. 21; v. 278; p. 426.
Mullis, Charles, Manufacturing Company. (See Williams, James A., assignor.)
Muncy, David J., Amarillo, Tex. Guard. No. 1,353,811; Sept. 21; v. 278; p. 506.
Munning, A. P., & co. (See Zucker, Henry L., assignor.)
Muntz, William E., London, England. Treatment of vulcanized india-rubber goods embodying a foundation fabric. No. 1,354,123; Sept. 28; v. 278; p. 614.
Muraski, Stanley, Waterbury, Conn. Lock. No. 1,352,018; Sept. 7; v. 278; p. 60.
Muray, William R. (See Hofmann, George W., and Muray.)
Murnane, Daniel J., Chicago Heights, Ill. Building structure. No. 1,352,678; Sept. 14; v. 278; p. 223.
Murphey, Walter P. (See Eklind, Carl E., assignor.)
Murphy, Edwin J., assignor to General Electric Company, Schenectady, N. Y. Electromagnetic device. No. 1,352,307; Sept. 7; v. 278; p. 114.
Murphy Engineering Company. (See Murphy, Peter W., assignor.)
Murphy, George F., Pittsburgh, Pa. Casing for shaft-joints. No. 1,352,019; Sept. 7; v. 278; p. 60.
Murphy, Peter W., assignor to The Murphy Engineering Company, Detroit, Mich. Explosive-engine. No. 1,352,985; Sept. 14; v. 278; p. 284.
Murphy, Robert N., Ottawa, Ontario, Canada. Heater. No. 1,354,055; Sept. 28; v. 278; p. 599.
Murphy, Thomas I., St. Lawrence, S. D. Solution for treatment of iron and steel. No. 1,351,961; Sept. 7; v. 278; p. 50.
Murphy, Thomas W., Philadelphia, Pa. Liquid-elevating device. No. 1,354,330; Sept. 28; v. 278; p. 655.
Murray, Donald, London, England, assignor to The Western Telegraph Company, New York, N. Y. Paper-feed mechanism for printing-telegraphs, &c. No. 1,352,308; Sept. 7; v. 278; p. 114.
Murray, James G. (See Sawders, F. P., and Murray.)
Murray, Patrick J. (See Washburn, Thomas V., assignor.)
Murufas, Menelaus G., Los Angeles, Calif. Chrome-rollers for printing presses. No. 1,353,662; Sept. 21; v. 278; p. 477.
Musman, Francois. (See Greten, A. C., and Musman.)
Myers, Cornelius T., Detroit, Mich. Air-deflecting device. No. 1,352,679; Sept. 14; v. 278; p. 223.
Myers, Laura M., Chicago, Ill. Game or toy. No. 1,352,309; Sept. 7; v. 278; p. 115.
Nagel, W. G., Electrict Company, The. (See Decker, H. L., and Adams, assignors.)
Nagelvoort, Adriaan, assignor to The Nitrogen Corporation, Providence, R. I. Producing sodium bicarbonate and hydrogen. No. 1,352,211; Sept. 7; v. 278; p. 95.
Nagler, Harry, Brooklyn, N. Y. Show-case lock. No. 1,352,680; Sept. 14; v. 278; p. 223.
Nakasora, Seihachiro, Niles, Calif. Direction-indicator. No. 1,353,128; Sept. 14; v. 278; p. 311.
Napier, Charles, assignor to Napier Saw Works, Inc., Springfield, Mass. Tempered blade. No. 1,352,140; Sept. 7; v. 278; p. 82.
Napier, Charles H., Macon, Ga. Target-throwing device. No. 1,353,663; Sept. 21; v. 278; p. 478.
Napier Saw Works. (See Napier, Charles, assignor.)
Napolillo, Antonio, Riveaville, W. Va. Check-holding device. No. 1,353,605; Sept. 21; v. 278; p. 466.
Nash, Thomas H., St. Pauls Cray, England. Beating and refining engine. No. 1,351,962; Sept. 7; v. 278; p. 50.
Nash Tractor Company. (See Nash, William, assignor.)
Nash, William, assignor to The Nash Tractor Company, Denver, Colo. Auxiliary radiator for automobiles. No. 1,353,263; Sept. 21; v. 278; p. 397.
Nation, Don O., Hollywood, assignor of one-half to W. E. Nation, Los Angeles, Calif. Tire-spreader. No. 1,354,457; Sept. 28; v. 278; p. 680.
Nation, William E. (See Nation, Don O., assignor.)
National Biscuit Company. (See Davidson, Frank B., assignor.)
National Brake & Electric Company. (See Aikman, Burton S., assignor.) (Reissue.)
National Motion Picture Camera Company, The. (See Leonard, John F., assignor.)
National Pneumatic Company. (See Rowntree, Harold, assignor.)
Natkiel, Harry, and I. Freedman, assignors of one-third to Louis Potemkin, New York, N. Y. Hair-waver. No. 1,353,781; Sept. 21; v. 278; p. 500.
Neal, Franklin G. (See Ladd, F. C., and Neal.)
Needham, John B., Glasgow, Scotland. Molding-machine for foundry use. No. 1,354,124; Sept. 28; v. 278; p. 614.
Neighbor, Leonard B., East Moline, assignor to Deere & Company, Moline, Ill. Portable conveyer. No. 1,353,841; Sept. 28; v. 278; p. 556.
Neike, Harry, Philadelphia, Pa. Forming dolls from tubular blanks. No. 1,354,331; Sept. 28; v. 278; p. 655.
Nell, Gustave M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Valve. No. 1,352,469; Sept. 14; v. 278; p. 180.
Nelson, Anton R., assignor of one-half to I. Knoch, Susanville, and one one-hundredth to F. M. Wright, San Francisco, Calif. Electrically wound and synchronized striking-clock. No. 1,353,935; Sept. 28; v. 278; p. 574.
Nelson, Arvid, assignor to Howe Lamp & Mfg. Co., Chicago, Ill. Rotary fan. No. 1,352,829; Sept. 14; v. 278; p. 253.
Nelson, Charles, Skykomish, Wash. Lifter. No. 1,353,782; Sept. 21; v. 278; p. 500.
Nelson, Ephriam H., Yale, Iowa. Tank-rack. No. 1,351,923; Sept. 7; v. 278; p. 42.
Nelson, Henry, assignor of one-half to T. Sophus Hanson, Northwood, Iowa. Device for recovering pump-cylinders. No. 1,353,177; Sept. 21; v. 278; p. 381.
Nelson, John. (See King, Roy D., assignor.)
Nelson, Lewis B., Wallingford, Iowa. Dumping-body for vehicles. No. 1,353,062; Sept. 14; v. 278; p. 290.
Nepstad, Carl O., Watford, N. D. Flour-sifter. No. 1,354,415; Sept. 28; v. 278; p. 672.
Neville, William A., Kewanee, Ill. Floor-laying jack. No. 1,354,332; Sept. 28; v. 278; p. 655.
Newcomb, E. C., Scituate, Mass., and L. L. Scott, assignors to Standard Engineering Company, St. Louis, Mo. Controlling device for electric circuits. No. 1,352,212; Sept. 7; v. 278; p. 95.
Newdick, Norton A., Columbus, Ohio. Coal-loading machine. No. 1,353,842; Sept. 28; v. 278; p. 556.
Newham, Frank H., Jr. (See Merceron, Raymond V., assignor.)
Newman, Alexander M. (See Seelau, Franz, assignor.)
Newman, W. E., and D. K. Stuart, Ogden, Utah. Flume No. 1,353,264; Sept. 21; v. 278; p. 397.
New Process Metals Corporation. (See De Bats, Jean H. L., assignor.)
New Way Machine Company. (See Wright, W. M., Teeples, and Lamb, assignors.)
Newsholme, Norman R., Keighley, England. Doffing mechanism for spinning-frames. No. 1,353,414; Sept. 21; v. 278; p. 427.
Newsom, Joseph N., H. E. Harder, and W. F. Leschen, assignors to Newsom Valve Company, St. Louis, Mo. Pneumatic valve. No. 1,353,415; Sept. 21; v. 278; p. 427.
Newsom Valve Company. (See Newsom, J. N. Harder, and Leschen, assignors.)
Ney, V. L., Hay Tool Company. (See Nunamaker, Henry S., assignor.)
Niantic Sheet Music Company, The. (See Dobson, John S., assignor.)
Nicholas Power Company. (See Power, Nicholas, assignor.)
Nicholas Power Company. (See Uhlemann, Theodore F., assignor.)
Nichols, George R., Jr., deceased, Chicago, Ill.; The Peoples Trust and Savings Bank, Chicago, administrator. Steering and control mechanism for tractors and the like. No. 1,353,606; Sept. 21; v. 278; p. 466.
Nicholson, John C. (See Beattie, Charles W., assignor.)
Nickel, Fredrick, New York, N. Y., assignor to Springmeyer, Pattberg & Co., Hoboken, N. J. Purse, Handbags, or the like. No. 1,354,206; Sept. 28; v. 278; p. 630.
Nickerson, Frederick M., Everett, assignor to The Phonoharp Company, East Boston, Mass. Playing attachment for zithers. No. 1,352,618; Sept. 14; v. 278; p. 210.
Nicol, David S., assignor to Shawinigan Electro-Metals Company, Limited, Montreal, Quebec, Canada. Manufacture of magnesium powder. No. 1,351,865; Sept. 7; v. 278; p. 31.
Nicols, William L., Tuscumbia, Ala. Toy cannon. No. 1,352,681; Sept. 14; v. 278; p. 223.
Nicosia, Vincent, Waco, Tex. Hair-clipper. No. 1,351,924; Sept. 7; v. 278; p. 43.
Niewiarowski, Piotr, Omaha, Nebr. Signal device for vehicles. No. 1,353,359; Sept. 21; v. 278; p. 416.
Nissen, Louis H., *et al.* (See Procunier, Frank R., assignor.)
Nitrogen Corporation, The. (See Clancy, John C., assignor.)
Nitrogen Corporation, The. (See Nagalvoort, Adriaan, assignor.)
Nitrogen Products Company. (See Hidden, Charles P., assignor.)
Nitrogen Products Company. (See Mount, William D., assignor.)
Nitrogen Products Company. (See Williams, Roger, assignor.)
Nitsch, Charles H. (See Weightman, W. A., and Nitsch.)
Noble, Donald, assignor to The Singer Manufacturing Company, Bridgenort, Conn. Sewing-machine. No. 1,351,866; Sept. 7; v. 278; p. 81.
Nofsger, Fred N. (See George, W. C., and Nofsger.)
Nolan, Edmund, Detroit, Mich. Grease-cup. No. 1,353,607; Sept. 21; v. 278; p. 466.

Norall, Carl A., Ajo, Ariz. Automatic fuel-saver. No. 1,353,644; Sept. 21; v. 278; p. 478.
Norfolk, Joseph R. B., Chicago, Ill. Artificial leg. No. 1,352,682; Sept. 14; v. 278; p. 223.
Norris, Paul E., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Terminal structure for electric batteries. No. 1,352,619; Sept. 14; v. 278; p. 210.
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Bohre, Anton C., assignor.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Bergve, Einar, assignor.)
North East Electric Company. (See Lee, Thomas L., assignor.)
North East Electric Company. (See Mix, Edwin S., assignor.)
Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Thread parting and clamping mechanism. No. 1,352,083; Sept. 7; v. 278; p. 72.
Norton Company. (See Larsson, Thure, assignor.)
Norton Company. (See Saunders, Lewis E., assignor.)
Norton, Fred E., assignor to Jefferies-Norton Corporation, Worcester, Mass. Separating mixed gases. No. 1,354,056; Sept. 28; v. 278; p. 599.
Norton, Fred E., assignor to Jefferies-Norton Corporation, Worcester, Mass. Separating mixed gases. No. 1,354,057; Sept. 28; v. 278; p. 599.
Norton, Fred E., assignor to Jefferies-Norton Corporation, Worcester, Mass. Apparatus for the separation of mixed gases. No. 1,354,058; Sept. 28; v. 278; p. 600.
Norton, Fred E., assignor to Jefferies-Norton Corporation, Worcester, Mass. Apparatus for the separation of mixed gases. No. 1,354,059; Sept. 28; v. 278; p. 600.
Norvell, Norman F. (See Kellam, A. S., and Norvell.)
Notaseme Hosiery Company. (See Matlack, James C., assignor.)
Noyes, Charles W., administrator. (See Gorton, Robert.)
Nueske, Frederick, assignor to Julius Nueske & Sons, Inc., New York, N. Y. Pattern-lathe. No. 1,354,453; Sept. 28; v. 278; p. 680.
Nueske, Julius, & Sons. (See Nueske, Frederick, assignor.)
Nugent, William W., Chicago, Ill. Gravity center-oiler. No. 1,352,986; Sept. 14; v. 278; p. 284.
Nunamaker, Henry S., assignor to The V. L. Ney Hay Tool Company, Canton, Ohio. Hay-carrier. No. 1,354,125; Sept. 28; v. 278; p. 614.
Nutt, William C., Point Marion, Pa. Power transmission. No. 1,353,063; Sept. 14; v. 278; p. 299.
Nydegger, Max. (See Fels, William, assignor.)
Oakes, Henry W., *et al.* (See Curran, William, assignor.)
Oakes, Oliver E., Asbury, Me. Compensating apparatus for well-digging outfits. No. 1,351,867; Sept. 7; v. 278; p. 31.
Obermeyer, Edward C., Nessen City, Mich. Adjustable ladder. No. 1,352,830; Sept. 14; v. 278; p. 253.
Ohrmundt, Arthur E. (See Uttech, H. C., and Ohrmundt.)
Ochs, George F. A., Newark, N. J. Railway-spike and lock. No. 1,353,843; Sept. 28; v. 278; p. 556.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,353,971; Sept. 28; v. 278; p. 582.
O'Dell, Frank T., Minneapolis, Minn., assignor to H. Mueller Manufacturing Co., Decatur, Ill. Hot-water heating system. No. 1,353,844; Sept. 28; v. 278; p. 556.
Odierno, Giovanni, Milan, Italy. Trolley for electric tramways. No. 1,354,060; Sept. 28; v. 278; p. 600.
Oehm, William N., Michigan City, Ind. Draft-arm. No. 1,353,488; Sept. 21; v. 278; p. 441.
Ohio Brass Company, The. (See Averill, R. G., and Tomlinson, assignors.)
Ohio Brass Company, The. (See Averill, Rex G., assignor.)
Olevin, Adolph, assignor to Alvin Electrical Products Company, Detroit, Mich. Combination-lock for letter-boxes. No. 1,353,064; Sept. 14; v. 278; p. 299.
Oliver, James H., New Bedford, Mass. Shuttle. No. 1,354,265; Sept. 28; v. 278; p. 648.
Oliver, Stacy, Avalon, Pa. Silencer-coupling. No. 1,354,416; Sept. 28; v. 278; p. 672.
Ollivier, Jocelyn-Emile, Haute-Savoie, France. Traction-increasing device. No. 1,352,683; Sept. 14; v. 278; p. 223.
Olson, Andrew P., Chicago, Ill. Golf-club. No. 1,352,020; Sept. 7; v. 278; p. 60.
Olson, Carl S., Troy, Idaho. Automatic speed-regulator. No. 1,352,310; Sept. 7; v. 278; p. 115.
Olson, William O., assignor, by mesne assignments, to The Arc-O Manufacturing Co., Inc., Chicago, Ill. Spark-plug. No. 1,354,126; Sept. 282; v. 278; p. 614.
O'Mara, Thomas C., Dalgety, New South Wales, Australia. Pumping apparatus. No. 1,353,845; Sept. 28; v. 278; p. 556.
O'Meara, Michael J., Anderson, Ind. Child's vehicle. No. 1,352,213; Sept. 7; v. 278; p. 95.
O'Neil, Rodolph S., assignor to O'Neil's Recorder Syndicate Limited, London, England. Contact of electrical switch-gears. No. 1,351,963; Sept. 7; v. 278; p. 50.
O'Neil's Recorder Syndicate. (See O'Neil, Rodolph S., assignor.)
Onsrud, Oscar, Chicago, Ill., assignor to The Marble and Shattuck Chair Company, Cleveland, Ohio. Dovetailing-machine. No. 1,352,620; Sept. 14; v. 278; p. 210.
Oppenheimer, Edgar A., Chicago, Ill. Chuck for ribbon winding-machines. No. 1,352,376; Sept. 7; v. 278; p. 127.
Oppenheimer, Ruth B., New Rochelle, N. Y. Brassière and drawers. No. 1,354,207; Sept. 28; v. 278; p. 630.
Opperman, Otto R., London, England. Manufacture of toothed bevel gear-wheels or crown-wheels. No. 1,352,021; Sept. 7; v. 278; p. 60.
Opsahl, Harry L., Minneapolis, Minn. Selective mount for cards or photographs. No. 1,353,846; Sept. 28; v. 278; p. 557.
Orbin, George, assignor of one-third to C. M. Hays, Hoboken, Pa. Spring-cushion tire. No. 1,351,784; Sept. 7; v. 278; p. 13.
Orcutt, C. Blake, New York, N. Y. Roller-towel cabinet. No. 1,353,416; Sept. 21; v. 278; p. 427.
Ording, Arthur J., Chicago, Ill. Electric heater for sealing-wax. No. 1,353,972; Sept. 28; v. 278; p. 582.
Ormsby, Donald D., assignor to Brown-Lipe-Chapin Co., Syracuse, N. Y. Compensating gearing. No. 1,352,910; Sept. 14; v. 278; p. 269.
Ornston, Sidney J., New York, N. Y. Binding-strap tightener. No. 1,353,973; Sept. 28; v. 278; p. 582.
Orofino, Michele, Philadelphia, Pa. Garbage-can. No. 1,351,964; Sept. 7; v. 278; p. 50.
Orres, Olaf B. (See Peterson, Peter J. A., assignor.)
Orsbee Co., The. (See Kennedy, Joseph, assignor.)
Ortiz, Luis M., and L. E. Reed, Chama, N. Mex. Closure for condiment-holders. No. 1,354,333; Sept. 28; v. 278; p. 656.
Osborn, Alden E., New York, N. Y. Internal-combustion engine and valve mechanism therefor. No. 1,354,334; Sept. 28; v. 278; p. 656.
Osborn, Alden E., New York, N. Y. Inverted-head-engine water-jacket. No. 1,354,335; Sept. 28; v. 278; p. 656.
Osborn, Frank, assignor of one-half to G. W. Finnup, Garden City, Kans. Automatic temperature-regulator. No. 1,352,685; Sept. 14; v. 278; p. 224.
Osborn, Henry C. (See Parkes, Walter, assignor.)
Oshige, Heikichi, Santa Barbara, Calif. Gas-saving and heat-retaining device. No. 1,353,265; Sept. 21; v. 278; p. 398.
Osius, Frederick J. (See Beech, Chester H., assignor.)
Ostendorf, Otto L., Rochester, N. Y. Record-cabinet. No. 1,352,684; Sept. 14; v. 278; p. 224.
Otis, Albert N., Schenectady, N. Y., assignor to General Electric Company. Temperature-controller. No. 1,353,665; Sept. 21; v. 278; p. 478.
Otis Elevator Company. (See Furlow, Floyd C., assignor.)
Outcalt, Andrew S., Ironton, Wis. Running-gear for wagons and automobiles. No. 1,352,141; Sept. 7; v. 278; p. 82.
Owen, Harry E., Muncie, Ind. Power-transmission device. No. 1,353,178; Sept. 21; v. 278; p. 381.
Owens Bottle Machine Company, The. (See Graham, Joseph B., assignor.)
Paca, William S., Oil City, Pa., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Associated-switchboard telephone system. No. 1,353,065; Sept. 14; v. 278; p. 299.
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Packer, Alfred H., Pittsburgh, and F. H. Patten, Edgewood Park, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electromagnetic device. No. 1,354,208; Sept. 28; v. 278; p. 630.
Page, Fred M. (See Gregware, Harvey L., assignor.)
Page, Frederick H., assignor to Handley Page Limited, London, England. Wing and similar member of aircraft. No. 1,353,666; Sept. 21; v. 278; p. 478.
Page, George E., assignor of one-half to P. C. Zaenglein, Rochester, N. Y. Machine for pasteurizing milk and other liquids. No. 1,352,214; Sept. 7; v. 278; p. 95.
Page, Handley, Limited. See Page, Frederick H., assignor.)
Page, Rescue B., Los Angeles, Calif. Folding bed. No. 1,352,525; Sept. 14; v. 278; p. 191.
Paige, Arthur E., Philadelphia, Pa. Multifocal optical element and method and means for making same. No. 1,351,785; Sept. 7; v. 278; p. 14.
Pajalic, Antonio, Dearborn, Mich. Breather for gas-engines. No. 1,352,022; Sept. 7; v. 278; p. 60.
Palmer, Edward P., Minneapolis, Minn. Reciprocating engine. No. 1,353,539; Sept. 21; v. 278; p. 452.
Palmer, Harry E. (See Brandenburg, Albert F., assignor.)
Palmer, Harry R., Harrisburg, Pa. Smoke-filter and forced-draft device for furnaces. No. 1,352,142; Sept. 7; v. 278; p. 83.
Palmer, John F., St. Joseph, Mich. Resilient ring or annulus and making same. No. 1,352,470; Sept. 14; v. 278; p. 181.
Palmer, Robert R., assignor of one-third to A. E. Drucker, San Francisco, Calif. Paper-pad press. No. 1,354,061; Sept. 28; v. 278; p. 601.
Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Journal-box for railway-carriages and the like. No. 1,353,480; Sept. 21; v. 278; p. 442.
Palutskas, Peter J., Pittsburgh, Pa. Window-washing apparatus. No. 1,354,127; Sept. 28; v. 278; p. 614.
Panoulias, Panayiotis, New York, N. Y. Coating and stroking or decorating machine. No. 1,352,686; Sept. 14; v. 278; p. 224.

Pantalek, John, Modesto, Calif. Safety pocket-knife. No. 1,353,490; Sept. 21; v. 278; p. 442.

Paque, Edward J., assignor to The Pollak Steel Company, Cincinnati, Ohio. Apparatus for forming forgings. No. 1,352,911; Sept. 14; v. 278; p. 269.

Park, Carl. (See Lundqvist, Nils H., assignor.)

Parker, Burton H., Detroit, Mich. Tool. No. 1,353,847; Sept. 28; v. 278; p. 557.

Parker, Douglass H. (See Dice, John A., assignor.)

Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Screw-thread gage. No. 1,353,608; Sept. 21; v. 278; p. 466.

Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 1,353,609; Sept. 21; v. 278; p. 466.

Parker, Thomas T., Brooklyn, N. Y. Feed-water heater and purifier. No. 1,352,023; Sept. 7; v. 278; p. 61.

Parkes, Walter, assignor, by mesne assignments, to H. C. Osborn, Cleveland, Ohio. Motion-picture camera. No. 1,352,143; Sept. 7; v. 278; p. 83.

Parkes, Walter, assignor, by mesne assignments, to H. C. Osborn, Cleveland, Ohio. Mechanism for feeding films. No. 1,352,144; Sept. 7; v. 278; p. 83.

Parks, Dennis. (See Mitchell, J. E., Wolfe, and Parks.)

Parrish, George L., Ricketts, Pa. Talking-machine-top support and release therefor. No. 1,353,540; Sept. 21; v. 278; p. 452.

Parrish, John T., Duluth, Minn. Gear-casing and band-operating device for automobiles. No. 1,353,812; Sept. 21; v. 278; p. 506.

Partridge, Allen R., Cleveland, Ohio. Process and apparatus for reclaiming and refining copper and other metals. No. 1,352,912; Sept. 14; v. 278; p. 270.

Pascoe, Frank S., Cristobal, Canal Zone, Panama. Reversible chair. No. 1,353,066; Sept. 14; v. 278; p. 300.

Pasternak, Joseph. (See Pasternak, Stanley and J.)

Pasternak, Stanley, Chicago, and J. Pasternak, West Harvey, Ill. Curtain-stretcher. No. 1,353,067; Sept. 14; v. 278; p. 300.

Patchen, Raymond S., Marion, Ind. Spark-plug intensifier. No. 1,352,526; Sept. 14; v. 278; p. 192.

Patterson, John F., Los Angeles, Calif. Educational game. No. 1,353,491; Sept. 21; v. 278; p. 442.

Patterson, John W., Memphis, Tenn. Direction-indicator. No. 1,353,783; Sept. 21; v. 278; p. 501.

Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Automatic projector. No. 1,352,471; Sept. 14; v. 278; p. 181.

Patten, Francis H. (See Packer, A. H., and Patten.)

Paul, Stephen, Lansing, Mich. Adjustable guide for hammers. No. 1,352,621; Sept. 14; v. 278; p. 211.

Pavesi, Ugo, Milan, Italy. Vehicle with two or more pairs of driving-wheels. No. 1,353,848; Sept. 28; v. 278; p. 557.

Pawling and Harnischfeger Company. (See Weickel, Henry, assignor.)

Payette, Joseph A., assignor, by mesne assignments, to General Chain Company, Providence, R. I. Machine for making metal fabric. No. 1,352,913; Sept. 14; v. 278; p. 270.

Payne, Alfred, Quebec, Quebec, Canada. Headlight-turning mechanism. No. 1,354,062; Sept. 28; v. 278; p. 601.

Payne, Clarence Q., New York, N. Y. Apparatus for grading finely-comminuted materials. No. 1,354,063; Sept. 28; v. 278; p. 601.

Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,352,412; Sept. 7; v. 278; p. 133.

Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,352,413; Sept. 7; v. 278; p. 133.

Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Breech lubrication. No. 1,352,414; Sept. 7; v. 278; p. 133.

Pearman, Robert H., Boston, Mass., assignor to T. E. Steere, Providence, R. I. Camera. No. 1,353,266; Sept. 21; v. 278; p. 398.

Peckham, Joseph E., Newton Highlands, Mass. Shank-stiffener. No. 1,352,024; Sept. 7; v. 278; p. 61.

Pegram, Benjamin H., Lincoln, Ill. Automatic steering attachment for motor-vehicles. No. 1,354,417; Sept. 28; v. 278; p. 673.

Peirce, Charles L., Jr., Pittsburgh, Pa. Key-holder. No. 1,352,622; Sept. 14; v. 278; p. 211.

Peirson, Charles H., Glenside, and C. H. Butler, assignors to E. F. Houghton & Co., Philadelphia, Pa. Press. No. 1,352,987; Sept. 14; v. 278; p. 284.

Pendleton, Charles E., Enid, Okla. Double-acting power-wrench. No. 1,353,417; Sept. 21; v. 278; p. 427.

Penfield, Raymond C. (See Wallace, William W., assignor.)

Pennell, Charles L., Barrs Mills, Ohio. Traction-wheel cleat mechanism. No. 1,353,849; Sept. 28; v. 278; p. 557.

Penner Abram C. (See Clements, William E., assignor.)

Penquite, Maynard E., Colfax, Iowa. Sash-fastener. No. 1,351,868; Sept. 7; v. 278; p. 31.

Peoples Trust and Savings Bank, The, administrator. (See Nickols, George R., Jr.)

Percival, Richard A. (See Meiler, John B., assignor.)

Perfection Manufacturing Company. (See Dinesen, Laurits, assignor.)

Perfect Projection Shutter Company. (See Fullenlove, McClellan C., assignor.)

Perron, Alexander J., Sparta, Wis. Spark-plug. (Reissue.) No. 14,949; Sept. 14; v. 278; p. 312.

Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Centrifugal machine and disintegrating material. No. 1,352,623; Sept. 14; v. 278; p. 211.

Perry, Ray P., assignor to The Barrett Company, Upper Montclair, N. J. Producing felt. No. 1,352,687; Sept. 14; v. 278; p. 224.

Pershing, Frank W., Moline, Ill. Holder for use in coating rods for electric welding. No. 1,354,418; Sept. 28; v. 278; p. 673.

Pet-Son Pump Company, The. (See Peters, Theodore, assignor.)

Peteler, Adolph, Freeport, N. Y. Lifting-jack with rotatable cams. No. 1,352,472; Sept. 14; v. 278; p. 181.

Peterman, Floyd T., *et al.* (See Howard, Albertson, assignor.)

Peters, Theodore, assignor to The Pet-Son Pump Company, Ferdinand, Ind. Pump. No. 1,353,492; Sept. 21, v. 278; p. 442.

Peterson-Harnden Fluid Clutch Co. (See Peterson, Peter R., assignor.)

Peterson, Niels, St. Anthony, Idaho. Tractor-wheel. No. 1,353,068; Sept. 14; v. 278; p. 300.

Peterson, Horace J., Montpelier, Idaho. Selective cooling and heating system for automobile-radiators. No. 1,353,418; Sept. 21; v. 278; p. 428.

Peterson, John, North Mankato, Minn. Stove leg and caster. No. 1,353,784; Sept. 21; v. 278; p. 501.

Peterson, Oscar F. (See Smith, Jonathan J., assignor.)

Peterson, Peter J. A., assignor of one-half to O. B. Orres, Pine River, Minn. Nut-lock and rail-joint protector. No. 1,351,786; Sept. 7; v. 278; p. 14.

Peterson, Peter R., assignor to Peterson-Harnden Fluid Clutch Co., Salt Lake City, Utah. Power-transmission machine. No. 1,354,209; Sept. 28; v. 278; p. 631.

Peterson, Victor H., Waverley, Mass. Tool. No. 1,352,688; Sept. 14; v. 278; p. 224.

Petrovitch, John, Cleveland, Ohio. Airplane-wing. No. 1,353,179; Sept. 21; v. 278; p. 382.

Petti, Ralph, assignor to The Singer Manufacturing Company, Bridgeport, Conn. Sewing-machine loop-taker. No. 1,351,869; Sept. 7; v. 278; p. 31.

Peyer, John, New York, N. Y. Tool for alining and fitting machine parts. No. 1,352,311; Sept. 7; v. 278; p. 116.

Pfouts, Leroy S., assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Liquid-treating apparatus. No. 1,352,215; Sept. 7; v. 278; p. 96.

Phelps, Benson M. (See Johnson, B. H., and Phelps.)

Phelps Dodge Corporation. (See Robinson, Eugene C., assignor.)

Phelps, William S. (See Johnson, B. H., and Phelps, assignors.)

Philadelphia Textile Machinery Company, The. (See Blatz, Frederick J., assignor.)

Phonoharp Company, The. (See Nickerson, Frederick M., assignor.)

Platt, Joseph W., New York, N. Y. Gas-heater. No. 1,352,473; Sept. 14; v. 278; p. 181.

Pickelsimer, Otus, Greenville, S. C. Ironer and molder for overalls and trousers. No. 1,354,438; Sept. 28; v. 278; p. 677.

Pierce, Albert F. (See Albers, William C., assignor.)

Pierce, James F., Glynrich, assignor to American Vulcanized Fibre Co., Wilmington, Del. Apparatus for forming tubes. No. 1,351,870; Sept. 7; v. 278; p. 32.

Pierce, Vinton U. D., Washington, D. C. Rapid-fire gun. No. 1,353,267; Sept. 21; v. 278; p. 398.

Pierson, Willett C., Cleveland, Ohio. Obtaining products from films. No. 1,352,216; Sept. 7; v. 278; p. 96.

Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Eyelet-machine. No. 1,353,493; Sept. 21; v. 278, p. 442.

Pierson, William D., assignor to The Waterbury Farrel Foundry & Machine Company, Waterbury, Conn. Wire-drawing machine. No. 1,354,336; Sept. 28; v. 278; p. 656.

Pifer, George N. assignor to The Postergraph Company, Cleveland, Ohio. Making lithographic posters. No. 1,354,001; Sept. 28; v. 278; p. 588.

Piggott, John T. (See Alexander, E. E., and Piggott.)

Pilkington, William G., Buffalo, N. Y. Device for transferring and dispensing liquid. No. 1,353,069; Sept. 14; v. 278; p. 300.

Pines, Wilson, Rogers, Mich. Conveyer. No. 1,352,312; Sept. 7; v. 278; p. 115.

Pinkerton, James W., Lodi, and E. Tomlinson, Stockton, Calif., said Tomlinson, assignor to Pinkerton. Double-suction centrifugal pump. No. 1,352,831; Sept. 14; v. 278; p. 253.

Pioneer Suspender Company. (See Evans, David C., assignor.)

Plant, Henry J., assignor to Defiance Check Writer Corporation, Rochester, N. Y. Check-protector. No. 1,352,689; Sept. 14; v. 278; p. 225.

Plant, Henry J., assignor to Defiance Check Writer Corporation, Rochester, N. Y. Printing-machine. No. 1,352,690; Sept. 14; v. 278; p. 225.

Plant, Henry J., assignor to Defiance Check Writer Corporation, Rochester, N. Y. Check-protector. No. 1,352,691; Sept. 14; v. 278; p. 225.

Plant, John W., San Mateo, Calif. Electrically welding steel. No. 1,354,266; Sept. 28; v. 278; p. 643.

Plasclascovitie, Sidney, Denver, Colo. Shelf for ladders. No. 1,352,914; Sept. 14; v. 278; p. 270.

Platt, John J., Devon, Milford, Conn. Spark-plug. No. 1,353,785; Sept. 21; v. 278; p. 501.

Play-O-Lite Company. (See Eberhart, Cleburne, Jr., assignor.)

Plumley, Stuart, Westfield, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Universal metal-cutting apparatus. No. 1,352,760; Sept. 14; v. 278; p. 239.

Plummer, Robert S., assignor to American Briquet Company, Philadelphia, Pa. Briquet-drier. No. 1,352,377; Sept. 7; v. 278; p. 127.

Pnumercator Company. (See Cornett, G., and Stancliff, assignors.)

Podien, Jakob, Chicago, Ill. Car-replacer. No. 1,351,965; Sept. 7; v. 278; p. 50.

Polcek, Henry, New York, N. Y. Safety window-lock. No. 1,352,624; Sept. 14; v. 278; p. 211.

Pollak Steel Company, The. (See Paque, Edward J., assignor.)

Pool, Frank M., *et al.* (See Davidson, Charles S., assignor.)

Popular Reflex Camera Corporation. (See Harris, Varian M., assignor.)

Porbeck, Otto, St. Louis, Mo. Japanning-oven. No. 1,354,210; Sept. 28; v. 278; p. 631.

Porter, Nina M. (See Widing, Ivar, assignor.)

Pospeshil, Joseph B., Detroit, Mich. Auxiliary frame and spring attachment. No. 1,352,625; Sept. 14; v. 278; p. 211.

Pospisil, Rudolph E., Chippewa Falls, and E. Kurek, Madison, Wis., assignors of two-thirds to said Pospisil and one-third to said Kurek. Sugar process. No. 1,352,084; Sept. 7; v. 278; p. 72.

Pospyhala, Ignatius G., Spring Valley, Ill. Railway-track switch. No. 1,352,988; Sept. 14; v. 278; p. 285.

Posson, Edward, Chicago, Ill. Grain-door for cars. No. 1,352,692; Sept. 14; v. 278; p. 225.

Post, Charles B., New London, Ohio. Automatic controller for steering-gears. No. 1,353,610; Sept. 21; v. 278; p. 467.

Postergraph Company, The. (See Pifer, George N., assignor.)

Postma, John, Loleta, Calif. Can-punch. No. 1,352,378; Sept. 7; v. 278; p. 127.

Potemkin, Louis. (See Natkiel, H., and Freedman, assignors.)

Potter, George M., *et al.* (See Woodward, William H assignor.)

Pounder, Harry, Galion, Ohio. Hinge for doors of burial-vaults. No. 1,352,379; Sept. 7; v. 278; p. 127.

Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Selective signaling system. No. 1,352,217; Sept. 7; v. 278; p. 96.

Power, Henry, assignor of one-half to W. Halton, Montreal, Quebec, Canada. Sanding device. No. 1,352,626; Sept. 14; v. 278; p. 211.

Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Safety device for moving-picture machines. No. 1,352,218; Sept. 7; v. 278; p. 96.

Powers Accounting Machine Company. (See Lasker, William W., assignor.)

Prantner, Rudolf, Wright, Minn. Power-transmission device. No. 1,353,936; Sept. 28; v. 278; p. 574.

Pratt, George R., Williston, N. D. Sanitary drinking-fountain. No. 1,354,064; Sept. 28; v. 278; p. 601.

Predigest Food Company. (See Taylor, Richard L. D., assignor.)

Prell, Henry, Cleveland, Ohio. Vibrator. No. 1,352,219; Sept. 7; v. 278; p. 97.

Preliwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,352,025; Sept. 7; v. 278; p. 61.

Prendergast, Edward, St. Louis, Mo. Road-machine. No. 1,352,989; Sept. 14; v. 278; p. 285.

Prentice, William D., Fargo, N. D. Tractor-frame. No. 1,354,128; Sept. 28; v. 278; p. 615.

Pressed Steel Car Company. (See Lockwood, Burns D., assignor.)

Preston, John C., Balmain, near Sydney, and J. Malcolm Lindfield, near Sydney, New South Wales, Australia. Nursery service-wagon. No. 1,353,180; Sept. 21; v. 278; p 382.

Prew, Raymond, Detroit, Mich. Auger. No. 1,352,313; Sept. 7; v. 278; p. 115.

Price, Joseph H., Cape Girardeau, Mo. Spark and throttle lever lock. No. 1,353,693; Sept. 14; v. 278; p. 225.

Price, Thornton W., New York, N. Y. Ingot-stripper. No. 1,352,026; Sept. 7; v. 278; p. 61.

Prichard, Wyndham J. (See Howitt, H. G., Prichard, and Evans.)

Pridmore, Edward A., La Grange, Ill. Molding-machine. No. 1,351,871; Sept. 7; v. 278; p. 32.

Priest, Charles P., Philadelphia, Pa. Extracting precious metals. No. 1,352,832; Sept. 14; v. 278; p. 254.

Prindle, Harry A., East Orange, N. J. Combined centrifugal pump and motor. No. 1,354,129; Sept. 28; v. 278; p. 615.

Prisbrey, George W., assignor of one-sixth to B. Carpenter and one-sixth to R. Fawcett, St. George, Utah. Portable metal-turning lathe. No. 1,352,380; Sept. 7; v. 278; p. 127.

Process Company, The. (See Coast, John W., Jr., assignor.)

Procunier, Frank R., assignor of one-fourth to J. C. Stryker, one-fourth to L. N. Turner, and one-fourth to L. H. Nissen, Chicago, Ill. Automobile-bumper. No. 1,352,220; Sept. 7; v. 278; p. 97.

Pruessing, Carl. (See Pruessing, Willie and C.)

Pruessing, Willie and C., Syracuse, Nebr. Tool-holder for blow-torches. No. 1,354,065; Sept. 28; v. 278; p. 601.

Psilander, Charles A. (See Stothoff, W. S., and Psilander.)

Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Trolley. No. 1,352,474; Sept. 14; v. 278; p. 182.

Purcell, Francis A., Brooklyn, N. Y. Electric signal apparatus. No. 1,354,337; Sept. 28; v. 278; p. 656.

Quinby, George F., Dorchester, Mass. Innersole-applying device. No. 1,352,145; Sept. 7; v. 278; p. 83.

Radimak, Steven, Newark, N. J. Brushing-machine. No. 1,352,527; Sept. 14; v. 278; p. 192.

Radimak, Steven, New York, N. Y. Doll-eye-painting machine. No. 1,352,528; Sept. 14; v. 278; p. 192.

Radio Corporation of America (See Frankis, Ernest E., assignor.)

Radio Corporation of America. (See Weagant, Roy A., assignor.)

Radisson, Augustin, and P. Berthon; said Radisson assignor to Societe de Stearinerie et Savonnerie de Lyon, Lyon, France. Method of and apparatus for hydrogenating fatty acids and their glycerids. No. 1,353,419; Sept. 21; v. 278; p. 428.

Radium Luminous Material Corporation. (See Willis, Paul M., assignor.)

Radtke, Milton L., Detroit, Mich. Adjustable clamp. No. 1,351,966; Sept. 7; v. 278; p. 50.

Rainey, William D., Lockesburg, Ark. Cotton-chopper. No. 1,354,131; Sept. 28; v. 278; p. 615.

Ramén, Arthur, Helsingborg, Sweden. Mechanical furnace. No. 1,353,268; Sept. 21, v. 278; p. 398.

Randall & Fries. (See Fries, Edward A., assignor.)

Randall, James R. (See Townsend, Fred, assignor.)

Rapson, Frederick L., Liverpool, England. Lifting-jack and the like for use on motor road and other vehicles. No. 1,354,338; Sept. 28; v. 278; p. 657.

Ratigan, James P., Los Angeles, Calif. Pumping apparatus. No. 1,352,627; Sept. 14; v. 278; p. 212.

Ray, James S., Duluth, Minn. Time-lock. No. 1,352,694; Sept. 14; v. 278; p. 226.

Rayfield, Charles L., assignor to Findelson & Kropf Manufacturing Company, Chicago, Ill. Carbureter. No. 1,352,628; Sept. 14; v. 278; p. 212.

Raymer, Morris. (See Johnson, H. L., and Raymer.)

Rece, Frank S., Dallas, Tex. Joint for metallic structures. No. 1,351,967; Sept. 7; v. 278; p. 51.

Reece Button Hole Machine Company, The. (See Kiewicz, John, assignor.)

Reece Shoe Machinery Company. (See Schoenky, August R., assignor.)

Reed, Hugh T., Chicago, Ill. Pocket-case. No. 1,354,211; Sept. 28; v. 278; p. 631.

Reed, James H., Burns, Oreg. Package-tie. No. 1,353,611; Sept. 21; v. 278; p. 467.

Reed, Laurence E. (See Ortiz, L. M., and Reed.)

Reed, Ralph R., Morgan Hill, Calif. Aeroplane. No. 1,354,002; Sept. 28; v. 278; p. 588.

Reed, Thomas L. (See Edwards, A. B., Turner, and Reed.)

Reed, Walter C., Dalton, assignor to F. W. Goewey, Pittsfield, Mass. Swell-box for pipe-organs. No. 1,353,667; Sept. 21; v. 278; p. 478.

Rees, Llewelyn M., Hamilton, Ontario, Canada. Weather-strip. No. 1,352,695; Sept. 14; v. 278; p. 226.

Reeves, Frank N., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,353,612; Sept. 21; v. 278; p. 467.

Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion. No. 1,352,529; Sept. 14; v. 278; p. 192.

Regan, Julia M., Darby, Pa. Garment-supporter. No. 1,353,070; Sept. 14; v. 278; p. 300.

Reifsnyder, James D., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Machine for sealed wrapped packages. No. 1,352,221; Sept. 7; v. 278; p. 97.

Reily, John P., St. Louis, Mo. Insect-escape for screens. No. 1,354,132; Sept. 28; v. 278; p. 615.

Reinker, Christian, Lakewood, Ohio. Gear-remover or pinion-puller. No. 1,352,990; Sept. 14; v. 278; p. 285.

Reliance Manufacturing Co. (See Bears, Daniel S., assignor.)

Remington, Joseph P., assignor of one-half to Day and Zimmerman, Philadelphia, Pa. Machine for wrapping confections. No. 1,352,629; Sept. 14; v. 278; p. 212.

Remy Electric Company. (See Conklin, Oliver F., assignor.)

Renault, Louis. (See Fuchs, Ernest, assignor.)

Reno, Michael J., and A. Scaramella, New Haven, Conn. Crushing-machine. No. 1,353,420; Sept. 21; v. 278; p. 428.

Renton, James H., Philadelphia, Pa. Cup-making apparatus. No. 1,353,613; Sept. 21; v. 278; p. 467.
Reppetto, Harvey B., assignor to The Wheeling Stove & Range Company, Wheeling, W. Va. Flexible connection for stoves and the like. No. 1,354,419; Sept. 28; v. 278; p. 673.
Retterer, Fred, Harpster, Ohio. Automobile-chock. No. 1,353,541. Sept. 21; v. 278; p. 452.
Reuther, Frank, *et al.* (See Leins, Karl, assignor.)
Reynolds, Howard, assignor to R. Hoe and Co., New York, N. Y. Trimming and finishing mechanism. No. 1,353,668; Sept. 21; v. 278; p. 479.
Reynolds, James J. (See Ashenhurst, Harold S., assignor.)
Reynolds, John J., Rantoul, Ill. Antijounce-spring construction. No. 1,351,968; Sept. 7; v. 278; p. 51.
Reynolds, Joy S., assignor to Reynolds Torch Manufacturing Company, Seattle, Wash. Oxyacetylene-torch for cutting tubes. No. 1,352,381; Sept. 7; v. 278; p. 128.
Reynolds Torch Manufacturing Company. (See Reynolds, Joy S., assignor.)
Rhoades, Philip F., New York, N. Y., assignor of one-third to W. M. Welling, Long Valley, N. J. Winding-machine. No. 1,353,269; Sept. 21; v. 278; p. 398.
Rhodes, Marcus H., Coleman, Ga. Electric time-switch. No. 1,353,850; Sept. 28; v. 278; p. 558.
Rich, Chester A., assignor to The Rich Pump Company, Cincinnati, Ohio. Ladder. No. 1,353,270; Sept. 21; v. 278; p. 399.
Rich Pump Company, The. (See Rich, Chester A., assignor.)
Richard, Charles D., New York, N. Y. Hub-odometer. No. 1,354,003; Sept. 28; v. 278; p. 588.
Richards, Brayton G., Chicago, Ill., assignor to Jacques Rousso, Los Angeles, Calif. Towel-rack. No. 1,353,271; Sept. 21; v. 278; p. 399.
Richardson Corporation. (See Richardson, D., and Jacoby, assignors.)
Richardson, Durbin, and C. N. Jacoby, assignors to Richardson Corporation, Rochester, N. Y. Portable beverage-dispensing apparatus. No. 1,352,475; Sept. 14; v. 278; p. 182.
Richey, James I., Cincinnati, Ohio. Means for lubricating leaf-springs. No. 1,352,915; Sept. 14; v. 278; p. 270.
Richter, Charles M., Chicago, Ill. Collar. No. 1,353,181; Sept. 21; v. 278; p. 382.
Richter, William H., Philadelphia, assignor to A. A. Kent, Ardmore, Pa. Condenser unit and making same. No. 1,351,787; Sept. 7; v. 278; p. 14.
Ricke, George H., Cincinnati, Ohio. Skate. No. 1,351,925; Sept. 7; v. 278; p. 43.
Ricketts, Lawrence M., assignor of one-half to W. A. Harman, Baltimore, Md. Steel wheel. No. 1,352,146; Sept. 7; v. 278; p. 84.
Riddick, David R., Rawlins, Wyo., assignor of one-half to A. L. Mackintosh, Denver, Colo. Garment-hanger. No. 1,352,382; Sept. 7; v. 278; p. 128.
Rider, Thomas B., assignor of one-half to A. Danziger, Los Angeles, Calif. X-ray tube. No. 1,352,630; Sept. 14; v. 278; p. 213.
Rigby, Holden, Paterson, N. J. Lubricating means for leaf-springs. No. 1,352,314; Sept. 7; v. 278; p. 116.
Rigg, James B., Oak Park, Ill. Means for and method of regulating breathing for singing and wind-instrument practice. No. 1,354,212; Sept. 28; v. 278; p. 631.
Riggs, Marion L., International Falls, Minn. Hair-clipper. No. 1,354,458; Sept. 28; v. 278; p. 680.
Riley, Ralph E., Akron, Ohio, assignor to The Miller Rubber Company. Mechanism for manufacturing rubber bathing-caps. No. 1,352,383; Sept. 7; v. 278; p. 128.
Riley, Ralph E., Akron, Ohio, assignor to The Miller Rubber Company. Manufacture of rubber bathing-caps and analogous articles. No. 1,353,421; Sept. 21; v. 278; p. 428.
Rimailho, Emile, assignor to Compagnie Des Forges et Aciéries De La Marine et D'Homecourt, Paris, France. Compound crawler. No. 1,352,315; Sept. 7; v. 278; p. 116.
Ringer, Luther, assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y. Cab-signal system. No. 1,351,943; Sept. 7; v. 278; p. 46.
Riordan, Patrick D., New York, N. Y. Clothes-drier. No. 1,354,420; Sept. 28; v. 278; p. 673.
Riordan, Patrick D., New York, N. Y. Clothes-drier. No. 1,354,421; Sept. 28; v. 278; p. 673.
Ripsch, Charles W., and J. C. Dawley, assignors to The Joyce-Cridland Company, Dayton, Ohio. Ratchet mechanism. No. 1,352,631; Sept. 14; v. 278; p. 213.
Risch, Robert, Milwaukee, Wis. Attachment for digging implements. No. 1,353,494; Sept. 21; v. 278; p. 443.
Rishel, Arthur B., Goddard, Kans. Vacuum snow-sweep. No. 1,352,384; Sept. 7; v. 278; p. 128.
Rissman, Henry L., Chicago, Ill. Garment. No. 1,352,027; Sept. 7; v. 278; p. 61.
Rittberger, William H., Granite City, Ill. Roll-polishing machine. No. 1,354,213; Sept. 28; v. 278; p. 631.
Rittman, Walter F., Pittsburgh, Pa. Apparatus for treatment of hydrocarbons. No. 1,352,916; Sept. 14; v. 278; p. 270.
Rittman, Walter F., Pittsburgh, Pa. Apparatus for treatment of hydrocarbons. No. 1,352,917; Sept. 14; v. 278; p. 270.
Rizzuto, James, assignor of one-third to Consumers Biscuit Company, New Orleans, La. Glass-retaining device for containers. No. 1,352,531; Sept. 14; v. 278; p. 192.
Roach, Jesse E. (See Moore, Wade W., assignor.)
Robbins, John E. (See Kirkpatrick, Gladys L., assignor.)
Roberts, Arthur, Evanston, assignor to American Coke and Chemical Company, Chicago, Ill. Coking coal. No. 1,352,696; Sept. 14; v. 278; p. 226.
Roberts, Drew D., Perry, Fla. Power-transmission attachment for automobiles. No. 1,353,786; Sept. 21; v. 278; p. 501.
Roberts, Eugene, assignor to Sugar Centrifugal Discharger Company, Salt Lake City, Utah. Spray-nozzle. No. 1,353,495; Sept. 21; v. 278; p. 442
Roberts, Ferdinand C., Detroit, Mich. Signal for automobiles. No. 1,354,066; Sept. 28; v. 278; p. 602.
Roberts, Joseph I., Prescott, Ariz. Device for arching and fitting semi-elliptic springs. No. 1,353,272; Sept. 21; v. 278; p. 399.
Roberts & Schaefer Company. (See Ross, Clyde P., assignor.)
Robertson, Samuel M., and F. C. Dyer, Toronto, Ontario, Canada. Wrench. No. 1,352,729; Sept. 14; v. 278; p. 233.
Robinson, Albert E. (See Sosa, A. M., Robinson, and Schatz.)
Robinson, Charles W., Battle Creek, Mich. Collapsible berry-box. No. 1,352,833; Sept. 14; v. 278; p. 234.
Robinson, Eugene C., Douglas, Ariz., assignor of fifty-five-one-hundredths to Phelps Dodge Corporation, Bisbee. No. 1,353,422; Sept. 21; v. 278; p. 428.
Robinson, H. G., and L. K. Stinson, Los Angeles, Calif. Carbureter. No. 1,352,316; Sept. 7; v. 278; p. 116.
Robinson, Robert B., Kansas City, Mo. Transposing musical chart. No. 1,354,214; Sept. 28; v. 278; p. 632.
Robison, Clinton S., assignor to Aladdin Products Company, Chicago, Ill. Manufacture of dye-soap. No. 1,353,182; Sept. 21; v. 278; p. 382.
Robison, Floyd W. (See Holley, C. M., and Robison.)
Rohitsch, Frederick L. (See Vlezzi, Luigi, assignor.)
Rock Island Plow Company. (See Bergendorf, Gottfrid, assignor.)
Rockford Milling Machine Company. (See Sundstrand, Gustaf D., assignor.)
Rockwell, Robert R. (See Lovell, Wesley S., assignor.)
Rodberg, Anders M., Tampa, Fla. Marine steam-turbine. No. 1,353,360; Sept. 21; v. 278; p. 416.
Rogers, William I., Birmingham, England. Body of motor road-vehicles. No. 1,353,787; Sept. 21; v. 278; p. 502.
Rohbock, William L., Cleveland, Ohio. Fastening device. No. 1,352,918; Sept. 14; v. 278; p. 271.
Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company Limited, Deptford, England. Car-lighting system. No. 1,351,788; Sept. 7; v. 278; p. 14.
Rohrgenwerk, G. M. B. H. (See Böbling, Rudolph H., assignor.)
Ronca, Louis. (See Massoline, P. D., and Ronca.)
Ronco Limited. (See Chipperfield, Walter, assignor.)
Roofing Patents Company, The. (See Speer, Alexander S., assignor.)
Ropes, Elihu H. (See Boerner, E. G., and Ropes.)
Rose Brothers (Gainsborough). (See Rose, William, assignor.)
Rose, James R., Edgeworth, Pa. Process of and apparatus for producing carbon and gaseous fuel. No. 1,352,085; Sept. 7; v. 278; p. 72.
Rose, James R., Edgeworth, Pa. Producing carbon and gaseous fuel. No. 1,352,086; Sept. 7; v. 278; p. 72.
Rose, William, assignor to Rose Brothers, (Gainsborough) Limited, Gainsborough, England. Bag-machine. No. 1,354,339; Sept. 28; v. 278; p. 657.
Rosehoom, Jesse G., Cincinnati, Ohio. Signal for motor-vehicles. No. 1,353,361; Sept. 21; v. 278; p. 416.
Rosen, Paul E., Madison, Wis. Garter. No. 1,351,872; Sept. 7; v. 278; p. 32.
Rosenberg, Heyman, New York, N. Y. Automobile-wrench combination. No. 1,353,496; Sept. 21; v. 278; p. 443.
Rosenberg, Isadore, Port Chester, N. Y. Combination valve-grinder and breast-drill. No. 1,352,476; Sept. 14; v. 278; p. 182.
Rosenhagen, Victor, Bellevue, Ky. Centrifugal vacuum-pump. No. 1,354,340; Sept. 28; v. 278; p. 657.
Rosentreter, Albert J., Boonton, N. J., assignor to E. Zabriskie, Maplewood, N. J., and F. E. Hutchins, New York, N. Y. Safety mechanism for elevator-shaft doors. No. 1,353,851; Sept. 28; v. 278; p. 558.
Rosentreter, Albert J., Boonton, assignor to E. Zabriskie, Maplewood, N. J., and F. E. Hutchins, New York, N. Y. Safety mechanism for elevator-shaft doors. No. 1,353,852; Sept. 28; v. 278; p. 558.
Ross, Clyde P., Kenilworth, assignor to Roberts & Schaefer Company, Chicago, Ill. Automatic traction-hoist. No. 1,352,632; Sept. 14; v. 278; p. 213.
Ross, E. W., Company, The. (See Morgal, John F., assignor.)
Ross, Frank E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic objective. No. 1,352,028; Sept. 7; v. 278; p. 61.
Ross, Henry R., St. John, New Brunswick, Canada. Refrigerator-car. No. 1,352,532; Sept. 14; v. 278; p. 193.

Ross, Henry R., St. John, New Brunswick, Canada. Traveling refrigerating plant. No. 1,352,533; Sept. 14; v. 278; p. 193.
Ross, Herbert E., Sydney, New South Wales, Australia. Hook-link fastener for eyeleted wearing-apparel. No. 1,353,614; Sept. 21; v. 278; p. 468.
Ross, Torey. (See Folger, H. S., and Ross.)
Rossi, Giacinto, Philadelphia, Pa. Radiator. No. 1,354,341; Sept. 28; v. 278; p. 657.
Rothenhoefer, Frederick F., Covington, Ky., assignor to The Monarch Lithographing Company, Cincinnati, Ohio. Fan. No. 1,352,385; Sept. 7; v. 278; p. 128.
Rothig, Bruno E. (See Arnold, E. A., and Rothig.)
Rothwell, James. (See Whitehead, P. K., and Rothwell.)
Roure, Augusto, Buenos Aires, Argentina. Dismountable house. No. 1,352,991; Sept. 14; v. 278; p. 285.
Rousso, Jacques. (See Bagly, William W., assignor.)
Rousso, Jacques. (See Richards, Brayton G., assignor.)
Rowland, John, Republic, Wash. Combination baby carriage and sleigh. No. 1,353,071; Sept. 14; v. 278; p. 300.
Rowley, James F., Chicago, Ill. Fitting artificial limbs. No. 1,351,789; Sept. 7; v. 278; p. 14.
Rowntree, Harold, Kenilworth, Ill., assignor to National Pneumatic Company, New York, N. Y. Chair. No. 1,354,133; Sept. 28; v. 278; p. 615.
Roy, Camille E., Chicago, Ill. Tray. No. 1,353,273; Sept. 21; v. 278; p. 399.
Royal Electrotype Company. (See Blaetz, Harry M., assignor.)
Royle, Vernon, Paterson, N. J. Attachment for routing machines. No. 1,353,497; Sept. 21; v. 278; p. 443.
Rudin, Karl V., Stockholm, Sweden. Calculating-machine. No. 1,352,029; Sept. 7; v. 278; p. 62.
Rudin, Karl V., Stockholm, Sweden. Step-by-step mechanism in calculating-machines. No. 1,352,030; Sept. 7; v. 278; p. 62.
Rudolph, Raymond H., Elgin, assignor of one-half to C. Friedman, Chicago, Ill. Leather-stitching machine. No. 1,352,222; Sept. 7; v. 278; p. 98.
Rudolph, William R., Glenbrook, Conn. Christmas-tree ornament and making same. No. 1,351,790; Sept. 7; v. 278; p. 14.
Rudsinskas, John, Muskegon, Mich. Cattle-feeding trough. No. 1,354,130; Sept. 28; v. 278; p. 615.
Ruedy, Henry U., Toledo, Ohio. Head equipment for barrels. No. 1,353,183; Sept. 21; v. 278; p. 382.
Ruff, Frederick C. (See Lowe, L. P., and Ruff.)
Ruff, John F., Port Huron, Mich. Evaporator and pasteurizer. No. 1,354,342; Sept. 28; v. 278; p. 657.
Ruff, William J., Quincy, Ill. Parachute. No. 1,353,130; Sept. 14; v. 278; p. 311.
Ruff, William J., Quincy, Ill. Parachute. No. 1,353,131; Sept. 14; v. 278; p. 311.
Ruggles, William G., San Francisco, Calif. Observation-station. No. 1,352,992; Sept. 14; v. 278; p. 285.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery. No. 1,352,087; Sept. 7; v. 278; p. 72.
Ruhoff, Otto E., assignor to French Battery & Carbon Company, Madison, Wis. Oil-protected electric battery and producing same. No. 1,352,834; Sept. 14; v. 278; p. 254
Rundberg, Otto, Spokane, Wash. Rake attachment. No. 1,352,886; Sept. 7; v. 278; p. 128.
Runke, Richard B. (See Allen, William M., assignor.)
Runne, Henry G., assignor of one-half to C. L. Townsend, Rochester, N. Y. Toy. No. 1,352,836; Sept. 14; v. 278; p. 254.
Runne, Henry G., assignor, by meane assignments, of one-half to C. L. Townsend, Rochester, N. Y. Toy vehicle. No. 1,352,835; Sept. 14; v. 278; p. 254.
Runyan, Clarence, Aurora, Ind. Reraller. No. 1,353,072; Sept. 14; v. 278; p. 301.
Runyan, Clay M., deceased, Lakewood; D. T. Runyan, administratrix, Cleveland, Ohio. Fender for motor-cars. No. 1,354,441; Sept. 28; v. 278; p. 677.
Runyan, Dorothy T., administratrix. (See Runyan, Clay M.)
Russell, G. Archie, Orlando, Fla. Tree trimming and harvesting machine. No. 1,354,267; Sept. 28; v. 278; p. 643.
Russell, Richard F., Jersey City, N. J., assignor to Air Reduction Company, Inc. Welding-rod. No. 1,352,534; Sept. 14; v. 278; p. 193.
Ryan, Thomas F. (See Thompson, J. T., and Cummings, assignor.)
Ryan, Thomas F. (See Thompson, John T., assignor.)
Ryan, Wilbur J., *et al.* (See Zwicker, Frederick P., assignor.)
Ryder, Gilbert E., Leonia, N. J. Making return-bends and related structures. No. 1,352,535; Sept. 14; v. 278; p. 193.
Ryder, Linus I. and M. Z., Briarcliff Manor, N. Y. Dirigible light. No. 1,352,993; Sept. 14; v. 278; p. 286.
Ryder, Mary Z. (See Ryder, Linus I. and M. Z.)
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,352,536; Sept. 14; v. 278; p. 193.
Saal, Henry G., Chicago, Ill. Speed-governor. No. 1,352,223; Sept. 7; v. 278; p. 98.
Saal, Henry G., Chicago, Ill. Turntable for phonographs. No. 1,352,224; Sept. 7; v. 278; p. 98.
Sackett, Hart, Grand Rapids, Mich. Humidifier. No. 1,352,477; Sept. 14; v. 278; p. 182.
Safety Car Heating and Lighting Company. (See Watson, Leonard A., assignor.)
Safety First Supply Company. (See Busko, Joseph E., assignor.)
Safely, Robert P., Oakland, Calif. Direction-indicator. No. 1,353,788; Sept. 21; v. 278; p. 502.
Sager, Peter. (See Cox, A. O., and Sager.)
Sala, Thomas, and M. Butera, Pittsburgh, Pa. Ice-creeper No. 1,352,088; Sept. 7; v. 278; p. 73.
Saladiner, Joseph M., Bryan, Tex. Cotton-pest poisoner. No. 1,354,215; Sept. 28; v. 278; p. 632.
Sales Service Company, The. (See Koch, Charles J., assignor.)
Salisbury, Alfred J. (See Ivey, P. D., and Salisbury.)
Salmons, Claude C., and J. Mahoney, West Philadelphia, Pa. Combined clamp and fastener. No. 1,352,919; Sept. 14; v. 278; p. 271.
Salt, Lloyd B., Dedham, Mass. Non-glare headlight. No. 1,354,422; Sept. 28; v. 278; p. 674.
Samuelson, George B., Isleworth, and W. H. Glaser, Tunbridge Wells, England. Railway system. No. 1,353,423; Sept. 21; v. 278; p. 429.
San Diego Consolidated Gas & Electric Company. (See Klauber, Laurence M., assignor.)
Sandberg, August P., Minneapolis, Minn. Bracket. No. 1,353,853; Sept. 28; v. 278; p. 558.
Sandstrom, George, Oakland, Calif. Banjo. No. 1,354,268; Sept. 28; v. 278; p. 643.
Sandwich Manufacturing Company. (See Hartman, Charles, assignor.)
Sanford, Georg A. (See Coldwell, Harry T., assignor.)
Sanford, Lottie. (See Church, Ira, assignor.)
Sanford, Percy P., Woodridge, N. Y. Fountain-pen. No. 1,351,873; Sept. 7; v. 278; p. 32.
Sanguinet, George A., St. Louis, Mo. Wringer-mop. No. 1,352,837; Sept. 14; v. 278; p. 255.
Santilli, Stefano, Canton, Ohio. Fruit-crusher. No. 1,352,537; Sept. 14; v. 278; p. 194.
Santos, Vicente C., Singalong, Manila, Philippine Islands. Shoe-fastener. No. 1,353,424; Sept. 21; v. 278; p. 429.
Sardo, Jacob, Johnstown, Pa. Clothesline-reel. No. 1,352,994; Sept. 14; v. 278; p. 286.
Sargeant, Arthur C., Agawam, Mass. Door-stop. No. 1,352,147; Sept. 7; v. 278; p. 84.
Sargent, Herbert W., assignor to Sargent Tile Ditcher Company, Fort Dodge, Iowa. Gathering conveyer-bucket. No. 1,351,791; Sept. 7; v. 278; p. 15.
Sargent Tile Ditcher Company. (See Sargent, Herbert W., assignor.)
Sargent, William H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,352,225; Sept. 7; v. 278; p. 98.
Särnmark, Axel U., Gottenborg, Sweden. Thermostatic cut-off. No. 1,352,538; Sept. 14; v. 278; p. 194.
Satterfield, Rosa P., San Antonio, Tex. Sun-hat. No. 1,352,838; Sept. 14; v. 278; p. 255.
Satterlee, John P., Klamath Falls, Oreg. Auditorium, assembly-room, or theater chair or bench. No. 1,252,415; Sept. 7; v. 278; p. 134.
Sattler, John H., San Francisco, Calif. Combined coal and gas stove. No. 1,352,539; Sept. 14; v. 278; p. 194.
Sauerbrei, John W., Kenora, Ontario, Canada. Car-fender. No. 1,353,854; Sept. 28; v. 278; p. 559.
Saunders, Lewis E., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Converting refractory oxids. No. 1,352,387; Sept. 7; v. 278; p. 129.
Saunders, Lewis E., assignor to Norton Company, Worcester, Mass. Shrinking magnesia. No. 1,352,388; Sept. 7; v. 278; p. 129.
Savitsky, Constantine, Denver, Colo. Dictionary-key. No. 1,353,615; Sept. 21; v. 278; p. 468.
Savoie, Joseph, Central Falls, R. I. Buffer-bracket for picker-sticks. No. 1,354,072; Sept. 28; v. 278; p. 603.
Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Spring-shackle. No. 1,352,633; Sept. 14; v. 278; p. 213.
Sawyer, Harry, assignor to Shaw Electric Crane Company, Muskegon, Mich. Brake mechanism for hoisting machinery. No. 1,351,792; Sept. 7; v. 278; p. 15.
Sawyer, Marion B. (See Hanson, H. L., and Sawyer.)
Saxon, Herman H., assignor, by mesne assignments, to Electric Auto-Lite Corporation, Toledo, Ohio. Commutator. No. 1,351,926; Sept. 7; v. 278; p. 43.
Scanes, Arthur E. L., Ashton-on-Mersey, assignor to The British Westinghouse Electric & Manufacturing Company, Limited, London, England. Steam-condenser apparatus. No. 1,353,855; Sept. 28; v. 278; p. 559.
Scaramella, Albert. (See Reno, M. J., and Scaramella.)
Sceltz, Frank, Harrison, N. Y. Window-ventilator. No. 1,353,789; Sept. 21; v. 278; p. 502.
Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Pantograph-trolley. No. 1,354,134; Sept. 28; v. 278; p. 616.
Schachter, Nathan, Chicago, Ill. Shock-absorber spring and blank therefor. No. 1,352,540; Sept. 14; v. 278; p. 194.
Schaffner, George H., Detroit, Mich. Illuminated sign. No. 1,352,031; Sept. 7; v. 278; p. 62.
Schaller, Jacob J., Chicago, Ill. Cement composition. No. 1,351,874; Sept. 7; v. 278; p. 32.
Scharnagel, Herman J., Tompkinsville, N. Y., assignor to Elmer A. Sperry, Brooklyn, N. Y. Multiple-expansion internal-combustion engine. No. 1,353,542; Sept. 21; v. 278; p. 452.

Schatte, Charles, New York, N. Y. Brush. No. 1,353,184; Sept. 21; v. 278; p. 382.
Schatz, Herman W. (See Sosa, A. M., Robinson, and Schatz.)
Scheich, Conrad. (See Anderson, Nils O., and Scheich.)
Schemel, Abraham, Yonkers, N. Y. Ice-creeper. No. 1,354,073; Sept. 28; v. 278; p. 603.
Scherbius Arthur, Berlin, Germany. Direct-current machine. No. 1,352,920; Sept. 14; v. 278; p. 271.
Schildwachter, Valentine, Peoria, Ill. Door opening and closing device. No. 1,354,135; Sept. 28; v. 278; p. 616.
Schilla, Adolph W., Duluth, Minn. Galley-gage. No. 1,352,478; Sept. 14; v. 278; p. 182.
Schilling, Louis F., Salem, Ohio. Collapsible bed. No. 1,354,343; Sept. 28; v. 278; p. 658.
Schivins, Charles, Millvale, Pa. Fencepost. No. 1,353,073; Sept. 14; v. 278; p. 301.
Schlappi, John F., Sioux City, Iowa. Emulsifying-machine. No. 1,353,425; Sept. 21; v. 278; p. 429.
Schlegel, George R., New Berlinville, Pa. Milk-bottle holder. No. 1,353,498; Sept. 21; v. 278; p. 443.
Schlueter, Henry W., Los Angeles, Calif. Tunnel construction. No. 1,353,274; Sept. 21; v. 278; p. 399.
Schlunke, Anna J., Fargo, N. D. Gravity grain-separator. No. 1,353,856; Sept. 28; v. 278; p. 559.
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,352,089; Sept. 7; v. 278; p. 73.
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,352,148; Sept. 7; v. 278; p. 84.
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,352,149; Sept. 7; v. 278; p. 84.
Schmidt, Edwin H., Inspiration, Ariz. Ball-mill. No. 1,351,793; Sept. 7; v. 278; p. 15.
Schmidt, William F., Freeburg, Ill. Shot-firing device. No. 1,351,794; Sept. 7; v. 278; p. 15.
Schmidt, Albert, assignor to Fisher Body Corporation, Detroit, Mich. Curtain-rod support. No. 1,352,479; Sept. 14; v. 278; p. 183.
Schnabel, Fritz W., Chicago, Ill. Attachment for ladders. No. 1,351,795; Sept. 7; v. 278; p. 15.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie, Paris, France. Recorder for fluid-pressure press. No. 1,352,150; Sept. 7; v. 278; p. 84.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for repeating automatically on a railway-locomotive track-signals provided for the protection of moving trains. No. 1,352,389; Sept. 7; v. 278; p. 129.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Fuse for aviation-bombs. No. 1,352,542; Sept. 14; v. 278; p. 195.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Percussion-fuse for projectiles. No. 1,352,543; Sept. 14; v. 278; p. 195.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Percussion-fuse for projectiles. No. 1,352,544; Sept. 14; v. 278; p. 195.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Power-barring apparatus. No. 1,353,275; Sept. 21; v. 278; p. 399.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Process and apparatus for ascertaining the hardness of metal parts. No. 1,354,216; Sept. 28; v. 278; p. 632.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for ascertaining the hardness of metal parts. No. 1,354,217; Sept. 28; v. 278; p. 632.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Process and apparatus for ascertaining the hardness of metal parts. No. 1,354,218; Sept. 28; v. 278; p. 632.
Schnekenburger, William, Detroit, Mich. Weather-strip. No. 1,352,545; Sept. 14; v. 278; p. 196.
Schnell, Lawrence J., Portland, Oreg. Lock-nut. No. 1,352,090; Sept. 7; v. 278; p. 73.
Schnuck, Carl F. (See Bowen, D. R., and Schnuck.)
Schoelkopf, Christian P., St. Paul, Minn. Portable door and window fastener. No. 1,353,543; Sept. 21; v. 278; p. 452.
Schoenky, August, R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Stopping and starting mechanism. No. 1,352,226; Sept. 7; v. 278; p. 98.
Schoepf, Theodore H., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,352,480; Sept. 14; v. 278; p. 183.
Schofield, Frederick C., assignor, by direct and mesne assignments, to The Hillfield Body Company, Salem, Va. Dumping vehicle. No. 1,351,796; Sept. 7; v. 278; p. 15.
Schön, Ludwig, assignor to Fried Krupp Aktiengelschaft, Essen-on-the-Ruhr, Germany. Arrangement for automatically regulating the voltage of dynamos. No. 1,352,839; Sept. 14; v. 278; p. 255.
Schossow, Frederick A., Detroit, Mich. Controlling mechanism for flushing-valves. No. 1,353,804; Sept. 21; v. 278; p. 505.
Schrader's, A., Son. (See Bowden, Junius A., assignor.)
Schrage, Hidde K., Stockholm, Sweden. Machinery for balancing unsymmetrical loads with polyphase distribution-nets or supply-mains. No. 1,354,074; Sept. 28; v. 278; p. 603.
Schram, Alexander L., Hillsboro, Ill., assignor, by mesne assignments, to Drey Automatic Glass Machine Company, St. Louis, Mo. Drop-feeding device for glass-machines. No. 1,353,276; Sept. 21; v. 278; p. 400.
Schram, Alexander L., Hillsboro, Ill. Jar. No. 1,353,277; Sept. 21; v. 278; p. 400.
Schram, Alexander L., Hillsboro, Ill., assignor to Schram Glass Mfg. Co., St. Louis, Mo. Fruit-jar. No. 1,353,278; Sept. 21; v. 278; p. 400.
Schram Glass Manufacturing Co. (See Drey, L. A., and Hiatt, assignors.)
Schram Glass Mfg. Co. (See Schram, Alexander L., assignor.)
Schreiber, Edward A., assignor, by mesne assignments, to Vapor Car Heating Company, Inc., Chicago, Ill. Coupling for railway train-pipes. No. 1,351,875; Sept. 7; v. 278; p. 32.
Schulthess, Jacob, Salt Lake City, Utah. Copy-guide. No. 1,353,279; Sept. 21; v. 278; p. 400.
Schultze, August J., Galveston, Tex. Universal lock and latch. No. 1,352,762; Sept. 14; v. 278; p. 239.
Schulz, Heinrich, assignor to Firm Cornelius Heyl, Worms, Germany. Drying varnished (patent) leather. No. 1,353,937; Sept. 28; v. 278; p. 575.
Schumacher, John, Los Angeles, Calif. Plaster-board and making same. No. 1,352,390; Sept. 7; v. 278; p. 119.
Schümann, Detlef K. H., Hamburg, Germany. Respirator. No. 1,353,857; Sept. 28; v. 278; p. 559.
Schurr, Wilhelm, Langnau-on-the-Albis, Switzerland. Athletic exerciser. No. 1,353,938; Sept. 28; v. 278; p. 575.
Schuyler, Edward, Syracuse, N. Y. Headlight. No. 1,354,136; Sept. 28; v. 278; p. 616.
Schwartz, Michael, assignor to Automatic Electric Company, Chicago, Ill. Semiautomatic telephone system. No. 1,351,876; Sept. 7; v. 278; p. 32.
Schwarz, Frederick, Berne, Ind. Swing. No. 1,352,317; Sept. 7; v. 278; p. 116.
Schwarzenbach, Alwin J., Hasbrouck Heights, and B. W. Tucker, South Orange, N. J.; said Tucker assignor, by mesne assignments, of his right to Michael Gold, New York, N. Y. Machine for shaping artificial-flower petals. No. 1,353,426; Sept. 21; v. 278; p. 429.
Schweinert, Maxmilian C., West Hoboken, N. J. Gage for gas-engines or the like. No. 1,352,697; Sept. 14; v. 278; p. 226.
Schweinert, Maximilian C., West Hoboken, N. J. Pressure-gage. No. 1,352,698; Sept. 14; v. 278; p. 227.
Schwerin, Carl. (See Wais, Charles C., assignor.)
Schwerin, Botho, assignor, by mesne assignments, to The Chemical Foundation, Inc., Frankfort-on-the-Main, Germany. Diaphragm for electrochemical and electro-osmotic purposes. No. 1,352,763; Sept. 14; v. 278; p. 240.
Scott, Edward A., Stratford, assignor to Winchester Repeating Arms Co., New Haven, Conn. Folding paper carton. No. 1,354,344; Sept. 28; v. 278; p. 658.
Scott, Lewis L. (See Newcomb, E. C., and Scott.)
Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Combustion system. No. 1,352,227; Sept. 7; v. 278; p. 99.
Scott-Paine, Hubert, Southampton, England. Flying-boat or other light marine vessel. No. 1,353,669; Sept. 21; v. 278; p. 479.
Scott, William M., Tredyffrin township, Chester county, Pa. Electrical switching system. No. 1,353,185; Sept. 21; v. 278; p. 383.
Scovill Manufacturing Company. (See Warner, Percy de F. and F. E., assignors.)
Scullin Steel Co. (See Doerr, Harry E., assignor.)
Scully, George H. and J. B., Kansas City, Mo., assignors to J. F. Marx, Hartington, Nebr. Self-soaping washboard. No. 1,354,075; Sept. 28; v. 278; p. 604.
Scully, Jessie B. (See Scully, G. H. and J. B.)
Sealy, Christopher, Brooklyn, N. Y. Automobile pilot-signal. No. 1,353,790; Sept. 21; v. 278; p. 502.
Seattle-Astoria Iron Works. (See Troyer, Nelson, assignor.)
Seaver, Henry E., and C. L. Bowers, assignors to D. M. Wright, Hartford, Conn. Safety device for power-operated machines. No. 1,354,345; Sept. 28; v. 278; p. 658.
Seelau, Franz, Berlin-Wilmersdorf, assignor of one-half to A. M. Newman, Berlin-Wannsee, Germany. Arrangement for phonographically recording and reproducing telephonic messages. No. 1,352,546; Sept. 14; v. 278; p. 196.
Seguin, Laurent, assignor to Societe Des Moteurs Gnome Et Rhone, Paris, France. Dashboard for motor-vehicles. No. 1,353,427; Sept. 21; v. 278; p. 429.
Seifert, John W., Houston, Tex. Washing-machine. No. 1,353,791; Sept. 21; v. 278; p. 502.
Seimbille, Louis E., Paris, France, assignor to Les Successeurs d'Albert Godde, Bedin & Cie., Paris, France. Electrical heating apparatus. No. 1,352,547; Sept. 14; v. 278; p. 196.
Selander, Gustaf, Chicago, Ill. Clinker-extractor. No. 1,353,428; Sept. 21; v. 278; p. 430.

Selden Company, The. (See Selden, James M., assignor.)
Selden, James M., assignor to The Selden Company, Pittsburgh, Pa. Heater. No. 1,352,481; Sept. 14; v. 278; p. 183.
Sellers, William F., Wilmington, Del., assignor to Edge Moor Iron Company, Edgemoor, Del. Metallic baffle-plate. No. 1,351,797; Sept. 7; v. 278; p. 16.
Semon, William H., Minneapolis, Minn. Device for securing protecting-jackets upon cans. No. 1,353,280; Sept. 21; v. 278; p. 401.
Seltenright, Harry A., Toledo, Ohio. Propelling attachment for tractors. No. 1,354,219; Sept. 28; v. 278; p. 633.
Service Caster & Truck Company, The. (See Chestnutt, John L., assignor.)
Sesty, Leopold., Bridgeport, Conn. Lifeboat. No. 1,352,318; Sept. 7; v. 278; p. 116.
Severén, Thaddeus, Bridgeport, Conn. Ratchet-wrench. No. 1,352,764; Sept. 14; v. 278; p. 240.
Severns, William, Chicago, Ill. Polishing apparatus. No. 1,353,422; Sept. 21; v. 278; p. 430.
Severson, Sanford H. (See Libbey, Samuel R., asignor.)
Sévigné, Henri, Winthrop, Mass. Lock-nut. No. 1,352,765; Sept. 14; v. 278; p. 240.
Sgritta, Alfonso, Brooklyn, N. Y. Pulley. No. 1,353,074; Sept. 14; v. 278; p. 301.
Shafer, George B., *et al.* (See Anderson, Albert L., assignor.)
Shand, E. Blake, Detroit, Mich. Splicer for sash straps and cords. No. 1,352,091; Sept. 7; v. 278; p. 73.
Shanaman, John K., Annville, Pa. Auxiliary seat. No. 1,354,137; Sept. 28; v. 278; p. 616.
Shantz, Ralph A., assignor of one-third to O. A. Steelhammer, Salem, and one-third to J. F. Steelhammer, Woodburn, Oreg. Valve-grinder. No. 1,352,640; Sept. 14; v. 278; p. 255.
Shapiro, Samuel G., New York, N. Y. Shoe-heel. No. 1,354,138; Sept. 28; v. 278; p. 616.
Sharp, Robert H., Chicago, Ill. Vanity-case. No. 1,353,281; Sept. 21; v. 278; p. 401.
Sharrard, Arthur W., Chelan Falls, Wash. Fruit-picking bag. No. 1,354,220; Sept. 28; v. 278; p. 633.
Shaw Electric Crane Company. (See Sawyer, Harry, assignor.)
Shaw, William F., Denver, Colo. Handpiece. No. 1,354,139; Sept. 28; v. 278; p. 617.
Shawinigan Electro-Metals Company. See Nicol, David S., assignor.)
Shearer, William B., New York, N. Y., assignor to International Torpedo Boat Corporation, Wilmington, Del. Gun-mount for boats. No. 1,353,499; Sept. 21; v. 278; p. 444.
Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Front truck for locomotives. No. 1,354,140; Sept. 28; v. 278; p. 617.
Shelton, James, Knoxville, Tenn. Valve-stem stuffing-box. No. 1,352,548; Sept. 14; v. 278; p. 196.
Sheperdson, John W., assignor to Morgan Construction Company, Worcester, Mass. Conveying mechanism. No. 1,352,766; Sept. 14; v. 278; p. 240.
Sherburne, Charles H. (See Bridgham, Arthur L., assignor.)
Sherman, Howard B. (See Hofmann, William G., assignor.)
Sherman, Howard B., Battle Creek, Mich. Electrical connector. No. 1,352,032; Sept. 7; v. 278; p. 62.
Sherman, Howard B., Battle Creek, Mich. Making connectors. No. 1,352,034; Sept. 7; v. 278; p. 62.
Sherman, Howard B., and F. D. Maltby, said Maltby assignor to said Sherman, Battle Creek, Mich. Electrical connection for spark-plugs, &c. No. 1,352,033; Sept. 7; v. 278; p. 62.
Sherman, Howard B., and F. D. Maltby, Battle Creek, Mich.; said Maltby assignor to said Sherman. Spring clasping terminal for electric connectors. No. 1,352,092; Sept. 7; v. 278; p. 73.
Sherman, Walter F., Albany, N. Y. Article-carrier. No. 1,353,858; Sept. 28; v. 278; p. 559.
Sherwin, Frank, Brookings, S. D. Seed-drill. No. 1,352,482; Sept. 14; v. 278; p. 183.
Shiffer, Warren L., and P. K. Shnyder, Williamsport, Pa. Pivoted link. No. 1,353,134; Sept. 14; v. 278; p. 312.
Shipman, Bennet C., San Francisco, Calif. Pipe-joining device. No. 1,352,767; Sept. 14; v. 278; p. 241.
Shippert, Warren A., Chicago, Ill. Stripping device for milking-machines. No. 1,351,798; Sept. 7; v. 278; p. 16.
Shipton, James D., Vancouver, British Columbia, Canada. Zinc-reduction furnace. No. 1,353,362; Sept. 21; v. 278; p. 417.
Shnyder, Peter K. (See Shiffer, W. L., and Shnyder.)
Shoemaker, Alvin H., Seattle, Wash. Demountable-rim vehicle-wheel. No. 1,354,221; Sept. 28; v. 278; p. 633.
Shoemaker, George W., Dalton, Pa. Washboard. No. 1,353,792; Sept. 21; v. 278; p. 502.
Shotwell, Marcus A., Miami, Fla. Tire cover or protector. No. 1,352,093; Sept 7; v. 278; p. 73.
Shrauger, Adelia G., Odanah, Wis. Jar-lifter. No. 1,353,282; Sept. 21; v. 278; p. 401.
Shuff, John, Waukesha, Wis. Woodworking sticker or molder-head. No. 1,353,616; Sept. 21; v. 278; p. 468.
Sibbald, Charles J., T. A., and J. O., Troy, N. Y. Loop-transferring device. No. 1,353,793; Sept. 21; v. 278; p. 503.
Sibbald, Charles T. A. (See Sibbald, C. J., C. T. A., and J. O.)
Sibbald, John O. (See Sibbald, C. J., C. T. A., and J. O.)
Sibley, Charles R., Lynn, Mass. Storm-window fastener. No. 1,354,222; Sept. 28; v. 278; p. 633.
Sibley, Roy I., Garden, Calif. Fruit-grader. No. 1,353,075; Sept. 14; v. 278; p. 301.
Sigler, Charles J., Honey Creek, Iowa. Surgical forceps. No. 1,353,430; Sept. 21; v. 278; p. 430.
Silsbee, Joseph L., Salt Lake City, Utah. Recovering potassium chlorid from brine. No. 1,353,283; Sept. 21; v. 278; p. 401.
Silver, B. Coleman. (See Moratz, Paul O., assignor.)
Silver, Herbert A., Cincinnati, Ohio. Amusement device. No. 1,352,841; Sept. 14; v. 278; p. 255.
Silverstein, Albert L. (See Dieser, Julius N., assignor.)
Simmer Automatic Railway Signal Company, The. (See Ringer, Luther, assignor.)
Simmons Company. (See Barnes, G. W., and Travis, assignors.)
Simmons Company. (See Gail, John F., assignor.)
Simon, Henry, Filer, Idaho. Frame for a plurality of pictures. No. 1,353,363; Sept. 21; v. 278; p. 417.
Simonson, Sigvard, Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Yoke for railway draft-gears. No. 1,352,151; Sept. 7; v. 278; p. 84.
Simonson, Sigvard, Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Manufacture of railway draft-gears. No. 1,352,152; Sept. 7; v. 278; p. 85.
Simpson, David B., Wichita, Kans. Friction brake-band. No. 1,351,927; Sept. 7; v. 278; p. 43.
Sims, James F., Kansas City, Mo. Dust-collector. No. 1,353,431; Sept. 21; v. 278; p. 430.
Sinclair, Charles G., Jr., Towaco, N. J., assignor to American Telephone & Telegraph Company. Cable-hanger. No. 1,352,549; Sept. 14; v. 278; p. 197.
Sinel, Arthur H., Auckland, New Zealand. Bale-tie. No. 1,353,859; Sept. 28; v. 278; p. 560.
Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
Singer Manufacturing Company, The. (See Petti, Ralph, assignor.)
Singleton, Clifton E., Brooklyn, N. Y. Tire-tool. No. 1,352,550; Sept. 14; v. 278; p. 197.
Sinkovitz, Joseph. (See Elik, William, assignor.)
Sipples, James L., Cynthiana, Ky. Propelling mechanism for vehicles. No. 1,354,423; Sept. 28; v. 278; p. 674.
Sir W. G. Armstrong Whitworth and Company. (See Chicken, C. B., and Thain, assignors.)
Sitney, Massey, Brooklyn, N. Y. Mobile armament. No. 1,351,928; Sept. 7; v. 278; p. 43.
Skelly, John S., Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y. Furnace and grate-bar therefor. No. 1,354,346; Sept. 28; v. 278; p. 658.
Skinder, J., *et al.* (See Mahtes, Anheny, assignor.)
Slack, Newman F. (See Buchanan, F. R. and Slack.)
Slattery, Charles, Cuyahoga Falls, Ohio. Drier. No. 1,354,223; Sept. 28; v. 278; p. 633.
Slattery, Charles, Cuyahoga Falls, Ohio. Brick-molding machine. No. 1,354,224; Sept. 28; v. 278; p. 634.
Sleeper & Hartley. (See Sleeper, F. H., and Blount, assignors.)
Sleeper & Hartley. (See Sleeper, Frank H., assignor.)
Sleeper, F. H., and W. H. Blount, assignors to Sleeper & Hartley, Inc., Worcester, Mass. Coil feeding and cutting mechanism. No. 1,352,842; Sept. 14; v. 278; p. 256.
Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Tube-coiling machine. No. 1,353,180; Sept. 21; v. 278; p. 383.
Sleffel, William J., Lakewood, assignor to The Kirk Latty Manufacturing Company, Cleveland, Ohio. Child's-vehicle construction. No. 1,354,141; Sept. 28; v. 278; p. 617.
Sliger, Oscar, assignor to Mengel Box Company, Louisville, Ky. Rack-assembling machine. No. 1,354,424; Sept. 28; v. 278; p. 674.
Sloan, E. R., *et al.* (See Hall, Stewart E., assignor.)
Sloan, Sebastian N., Maumee, Ohio, assignor to The Toledo Standard Commutator Co., Toledo, Ohio. Commutator and assembling same. No. 1,354,005; Sept. 28; v. 278; p. 589.
Sloan, Sebastian N., assignor, by mesne assignments, to The Toledo Commutator Company, Toledo, Ohio. Making commutators. No. 1,354,006; Sept. 28; v. 278; p. 589.
Slocomb, F. F., & Co., Incorporated. (See Flanagan, James U., assignor.)
Sloper, Thomas, Devizes, England. Manufacture of pneumatic tires. No. 1,354,425; Sept. 28; v. 278; p. 674.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,351,799; Sept. 7; v. 278; p. 16.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,351,800; Sept. 7; v. 278; p. 17.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Ringing-tone circuit. No. 1,354,347; Sept. 28; v. 278; p. 658.

Small, John W., Burlington, N. C. Threading attachment for shuttles of looms. No. 1,353,076; Sept. 14; v. 278; p. 301.

Smallwood, Alfred, London, England. Furnace. No. 1,351,801; Sept. 7; v. 278; p. 17.

Smith, Arthur A., Portland, Me. Machine for cutting doughnuts, cakes, &c. No. 1,353,077; Sept. 14; v. 278; p. 302.

Smith, Arthur A., Portland, Me. Automobile-tire remover. No. 1,353,078; Sept. 14; v. 278; p. 302.

Smith, Benjamin H., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical protective device. No. 1,354,142; Sept. 28; v. 278; p. 617.

Smith, Bradley S., Buffalo, N. Y. Cabinet. No. 1,353,974; Sept. 28; v. 278; p. 582.

Smith, Charles L. (See Fehlhaber, W., and Smith.)

Smith, David J., Jr., Washington, D. C. Motor-operated gun. No. 1,352,319; Sept. 7; v. 278; p. 116.

Smith, Douglas. (See Smith, Elizabeth J., and D.)

Smith, Elizabeth J. and D., Larchmont, N. Y. Snap-fastener. No. 1,352,153; Sept. 7; v. 278; p. 85.

Smith, Ernest E., Clapham Common, London, England. Parachute. No. 1,354,225; Sept. 28; v. 278; p. 634.

Smith, Ernest L., Sabula, Iowa. Hairpin. No. 1,353,070; Sept. 14; v. 278; p. 302.

Smith, Frank C., Minneapolis, Minn. Ventilator attachment. No. 1,352,843; Sept. 14; v. 278; p. 256.

Smith, Franklin S., Philadelphia, Pa. Destroying insect life. No. 1,352,099; Sept. 14; v. 278; p. 227.

Smith, George F., Buffalo, N. Y. Flush-valve for water-closets. No. 1,352,551; Sept. 14; v. 278; p. 197.

Smith, Harry, Dayton, Ohio. Hay-loading device. No. 1,353,975; Sept. 28; v. 278; p. 583.

Smith, Harry K., Hamilton, Md. Bail-ear fastening for cans. No. 1,353,080; Sept. 14; v. 278; p. 302.

Smith, Harvey G., Los Angeles, assignor of one-half to V. B. Liebmann, San Diego, Calif. Windshield. No. 1,352,094; Sept. 7; v. 278; p. 74.

Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway mail-delivery. No. 1,353,284; Sept. 21; v. 278; p. 401.

Smith, Herbert M., assignor to Landers, Frary & Clark, New Britain, Conn. Vacuum-bottle. No. 1,352,844; Sept. 14; v. 278; p. 256.

Smith, James T., Tacoma, Wash. Derailment-brake. No. 1,353,794; Sept. 21; v. 278; p. 503.

Smith, John B., South Orange, N. J. Means for promoting combustion. No. 1,353,432; Sept. 21; v. 278; p. 430.

Smith, Jonathan J., assignor of one-half to O. F. Petersen, Des Moines, Iowa. Hot-blast downdraft-furnace. No. 1,351,803; Sept. 7; v. 278; p. 17.

Smith, Josiah T. (See Hoenig, Harry E., assignor.)

Smith, Launcelot E. (See Zulver, C., and Smith.)

Smith, Launcelot E., South Shields, C. Zulver, London, and H. A. Thompson, North Shields, England. Liquid-fuel fitting for furnace-fronts. No. 1,353,795; Sept. 21; v. 278; p. 503.

Smith, Lincoln G., Des Moines, Iowa. Boiler-furnace. No. 1,351,802; Sept. 7; v. 278; p. 17.

Smith, Louis R., Lomita, Calif. Finishing and burnishing pliers. No. 1,352,552; Sept. 14; v. 278; p. 197.

Smith, Raymond A., Kinsley, Kans. Farm-derrick. No. 1,352,035; Sept. 7; v. 278; p. 62.

Smith, Raymond D., assignor to Tremont Products Company, Boston, Mass. Multisocket switch. No. 1,353,433; Sept. 21; v. 278; p. 430.

Smith, Sol. L. (See Gerau, George, assignor.)

Smith, Walter H., Oklahoma, Okla. Cuff-button. No. 1,352,095; Sept. 7; v. 278; p. 74.

Smith, Walter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,352,483; Sept. 14; v. 278; p. 183.

Smith, Walter R. (See Lawson, W. E., and Smith.)

Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve. No. 1,352,036; Sept. 7; v. 278; p. 63.

Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated reciprocating motor. No. 1,354,348; Sept. 28; v. 278; p. 659.

Smith, William H., Washington, D. C. Separating waxlike material from paper-stock. No. 1,352,553; Sept. 14; v. 278; p. 197.

Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Vehicle tail-lamp. No. 1,352,096; Sept. 7; v. 278; p. 74.

Snelling, Walter O., Allentown, Pa. Initial detonating agent. No. 1,353,805; Sept. 21; v. 278; p. 505.

Snyder, Emmanuell H., Davenport, Iowa. Lifting device for planters. No. 1,352,634; Sept. 14; v. 278; p. 213.

Snyder, Robert W., Bigheart, Okla. Automatic valve cut-off. No. 1,354,426; Sept. 28; v. 278; p. 674.

Snyder, Walter, Philadelphia, Pa. Manufacture of metal forms. No. 1,352,845; Sept. 14; v. 278; p. 256.

Snyder, Ward H., Congress Park, Ill. Spark-plug. No. 1,352,554; Sept. 14; v. 278; p. 198.

Soby, Charles, *et al.* (See Long, George A., assignor.)

Societa Anonima Stabilimenti Biak. (See Tedesco, Arrigo, assignor.)

Società Esercizio Bacini, Industriale. (See Cogliolo, Tomaso S., assignor.)

Societe Anonyme Les Ateliers Metallurgiques. (See Lefèbvre, Paul, assignor.

Société Anonyme pour l'Eclairage Electrique des Vehicules. (See Dutreux, Auguste, assignor.)

Societe Chimique des Usines du Rhone, Anciennement Gilliard, P. Monnet et Cartier. (See Beudet, Maurice, assignor.)

Societe de Stearinerie et Savonnerie de Lyon. (See Radisson, A. and Berthon, assignors.)

Societe Des Moteurs Gnome Et Rhone. (See Seguin, Laurent, assignor.)

Societe Lyonnaise Des Rechauds Catalytiques Camell, Cochet, Gritte & Cie (Societe en Commandite). (See Camell, R., Cochet, and Gritte, assignors.)

Society of Chemical Industry in Basle. (See Hartmann, Max, assignor.)

Solberg, Knut E., Philadelphia, Pa. Measuring-calipers. No. 1,351,804; Sept. 7; v. 278; p. 17.

Solomon, Lucius H., Tiffin, Ohio. Automatic drinking-fountain. No. 1,354,349; Sept. 28; v. 278; p. 659.

Somerville, George B. (See Eichelberger, William, assignor.)

Sommer, Otto, assignor to Stauwerke A.-G., Zurich, Switzerland. Reversible weir. No. 1,353,285; Sept. 21; v. 278; p. 401.

Sommers, Dell D., Champion, Alberta, Canada. Farm implement. No. 1,352,555; Sept. 14; v. 278; p. 198.

Sonander, Andrew, assignor to Howe Scale Company, Rutland, Vt. Scale. No. 1,352,097; Sept. 7; v. 278; p. 74.

Sonora Phonograph Company. (See Herzog, John, assignor.)

Sorg, Michael, Indianapolis, Ind. Sash-cord device. No. 1,352,846; Sept. 14; v. 278; p. 256.

Sosa, Augustus M., A. E. Robinson, Cincinnati, and H. W. Schatz, Norwood, assignors to The American Tool Works Company, Cincinnati, Ohio. Feeding mechanism for metal-working machinery. No. 1,351,969; Sept. 7; v. 278; p. 51.

Sosa, Augustus M., A. E. Robinson, Cincinnati, and H. W. Schatz, Norwood, assignors to The American Tool Works Company, Cincinnati, Ohio. Feeding mechanism for metal-working machinery. No. 1,351,970; Sept. 7; v. 278; p. 51.

Souders, Herbert V., Wilmington, Calif. Trammel-point. No. 1,352,320; Sept. 7; v. 278; p. 117.

Soudy, Antoine, Lyon, France. Lubricating-cup. No. 1,352,847; Sept. 14; v. 278; p. 257.

Soule, Clarence A., Canandaigua, N. Y. Garment-hanger. No. 1,352,556; Sept. 14; v. 278; p. 198.

Southard, Francis C., and H. G., Southampton, England. Machine for rolling in the baseplates of high-explosive shells and such like. No. 1,352,321; Sept. 7; v. 278; p. 117.

Southard, Henry G. (See Southard, F. C., and H. G.)

Southern Pine Products Co. (See Fairley, Taliaferro J., assignor.)

Southwell, John A., Scranton, Pa. Spade or shovel. No. 1,352,921; Sept. 14; v. 278; p. 271.

Sowers, George S., Spring Hill, Kans. Train-check railway-ticket. No. 1,353,286; Sept. 21; v. 278; p. 402.

Spang, Chalfant & Co. (See Marks, Willard C., assignor.)

Sparks, Jacob B. (See Lougheed, Wellington, assignor.)

Sparrow, John A., and W. Harle, Sedgewick, Alberta, Canada. Cattle-guard. No. 1,354,350; Sept. 28; v. 278; p. 659.

Speakman Company. (See Fraser, James, assignor.)

Specialty Automatic Machine Company. (See La Bombard, Leon Eg assignor.)

Speckman, Frederick, St. Louis, Mo. Mop-wringer. No. 1,351,805; Sept. 7; v. 278; p. 18.

Speer, Alexander S., Chicago, Ill., assignor to The Roofing Patents Company. Apparatus for cutting roofing-sheets. No. 1,352,154; Sept. 7; v. 278; p. 85.

Spelcher, Gustave D. (See Kelley, C. E., and Spelcher.)

Spelrs, Stuart, New York, N. Y. Brush. No. 1,352,228; Sept. 7; v. 278; p. 99.

Spelling, Thomas C., New York, N. Y. Combination bottle and closure. No. 1,353,187; Sept. 21; v. 278; p. 383.

Sperry, Elmer A. (See Scharnagel, Herman J., assignor.)

Sperry, Lawrence B., Brooklyn, N. Y., assignor to The Lawrence Sperry Aircraft Company, Inc., New York, N. Y. Twin-propeller aeroplane. No. 1,353,544; Sept. 21; v. 278; p. 452.

Spery, Charles F., Chicago, Ill. Radiator for motor-driven vehicles. No. 1,354,351; Sept. 28; v. 278; p. 659.

Spindler, Ferdinand G., New York, N. Y., assignor to A. Traeger, Weehawken, N. J. Colorimeter. No. 1,353,500; Sept. 21; v. 278; p. 444.

Spiess, Jules G. (Sc[illegible]urn, F., Thomas, and Spiess.)

Splitdorf Electrical C[illegible]pany. (See De Lorme, Alfred C., assignor.)

Spokane Mail Equipm[illegible]ompany. (See Smith, Herbert E., assignor.)

Sprague, Leo A., Henderson, N. Y. Propulsion mechanism. No. 1,352,922; Sept. 14; v. 278; p. 271.

Sprinemeyer, Pattberg, & Co. (See Nickel, Fredrick, assignor.)

Stack, William F., Bay St. Louis, Miss. Method of and means for feeding lubricants to steam-engines. No. 1,353,081; Sept. 14; v. 278; p. 302.

Stage, Harold L., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-operated percussive tool. No. 1,353,796; Sept. 21; v. 278; p. 503.

Staley, Joseph H., Knightstown, Ind. Press for removing bushings and the like. No. 1,352,098; Sept. 7; v. 278; p. 74.

Stancliffe, Cecil W. (See Cornett, G., and Stancliffe.)

Standard Accessory Corporation. (See Bernecker, George E., assignor.)

Standard Engineering Company. (See Newcomb, E. C., and Scott, assignors.)

Standard Engineering Company. (See Scott, Lewis L., assignor.)

Standard Parts Company, The. (See Bryant, Richard S., assignor.)

Standard Parts Company, The. (See Fay, Thomas J., assignor.)

Standard Separator Company. (See Hofmann, G. W., and Muray, assignors.)

Standex Manufacturing Corporation. (See Hansen, Viggo N., assignor.)

Standish, John F., Winthrop, Mass., assignor to United-Xpedite Finishing Company, Portland, Me. Receptacle for finishing-machines. No. 1,353,860; Sept. 28; v. 278; p. 560.

Stanley, Robert C., New Brighton, assignor to The International Nickel Company, New York, N. Y. Separating nickel and copper from copper-nickel mattes or materials. No. 1,351,877; Sept. 7; v. 278; p. 33.

Stanley Works, The. (See Waters, Archibald D., assignor.)

Stansbie, Jess, Cambridge, Nebr. Halter. No. 1,352,557; Sept. 14; v. 278; p. 198.

Stanton, William H., Ridley Park, Pa. Producing silicate of soda and the like. No. 1,352,700; Sept. 14; v. 278; p. 227.

Stanyo, Desider, Milwaukee, Wis. Fan-wheel. No. 1,352,848; Sept. 14; v. 278; p. 257.

Star Device Manufacturing Company. (See Stone, Lloyd B., assignor.)

Starling, S. G., Forest Gate, and A. J. Hughes, assignors to Henry Hughes and Son Limited, London, England. Anemometer. No. 1,352,391; Sept. 7; v. 278; p. 129.

Starr, Edward B., and H. E. Marsh, Lompoc, Calif., assignors to Celite Products Company, Los Angeles, Calif. Method and apparatus for cutting bricks or blocks from natural deposits. No. 1,353,188; Sept. 21; v. 278; p. 383.

Staude, E. G., Manufacturing Co., The. (See Boker, Vitus A., assignor.)

Stauwerke, A.-G. (See Sommer, Otto, assignor.)

Stay, Theron D., assignor to The Aluminum Castings Company, Cleveland, Ohio. Metallic alloy and making same. No. 1,352,322; Sept. 7; v. 278; p. 117.

Stebbins, Frank E. (See Coffman, Edward S., assignor.)

Steel Products Company, The. (See Bishop, Ashley L., assignor.)

Steel Utilities Incorporated. (See Hawthorne, Louis A., assignor.)

Steelhammer, John F. (See Shantz, Ralph A., assignor.)

Steelhammer, Oscar A., *et al.* (See Shantz, Ralph A., assignor.)

Steen, John I., Waukegan, Ill. Lock. No. 1,351,806; Sept. 7; v. 278; p. 18.

Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,353,797; Sept. 21; v. 278; p. 503.

Steenstrup-Lindholm, Peter, Christiania, Norway. Drying or cooling apparatus. No. 1,353,358; Sept. 21; v. 278; p. 416.

Steere, Thomas E. (See Pearman, Robert H., assignor.)

Stehle, Frank K., and C. A. Keffer, Philadelphia, Pa. Piston-ring. No. 1,353,082; Sept. 14; v. 278; p. 302.

Steigerwald, Edward, Philadelphia, Pa. Trump-indicating device. No. 1,351,971; Sept. 7; v. 278; p. 51.

Stein, Joseph, Philadelphia, Pa. Support for garment-hangers. No. 1,353,287; Sept. 21; v. 278; p. 402.

Steinbach, Max, New York, N. Y. Wire-tightening implement. No. 1,352,484; Sept. 14; v. 278; p. 184.

Stephan, Johan, Clifton, N. J. Safety device for ladders. No. 1,352,323; Sept. 7; v. 278; p. 117.

Stephens-Adamson Manufacturing Co. (See Kendall, Myron A., assignor.)

Stephens, James W. T., assignor of one-third to H. A. W. Howcott and one-third to J. P. Baldwin, New Orleans, La. Road-making machine. No. 1,354,076; Sept. 28; v. 278; p. 604.

Stephens, William B., Sunset, Tex. Wire-stretcher. No. 1,353,083; Sept. 14; v. 278; p. 306.

St. John, Everett, Philadelphia, Pa. Automobile-lock. No. 1,354,071; Sept. 28; v. 278; p. 603.

St. John, George E., and C. Bowman, Hammond, Ind. Split pulley. No. 1,352,761; Sept. 14; v. 278; p. 239.

Stevens, Howard M., assignor of one-half to R. T. Hodges, Somerset, Ky. Lubricating device for valves and cylinders of superheating-locomotives. No. 1,351,807; Sept. 7; v. 278; p. 18.

Stevens, Robert W., New Haven, Conn. Shower-pipe for paper-making machines. No. 1,352,485; Sept. 14; v. 278; p. 184.

Stevens, Samuel M., Asheville, N. C. Revolving house. No. 1,353,798; Sept. 21; v. 278; p. 503.

Stevens, William C., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Machine and building tires. No. 1,352,099; Sept. 7; v. 278; p. 75.

Stevenson, Charles M., Chicago, Ill., assignor to Stevenson Mfg. Co., Barton, Wis. Inclosure, pen, fence, and the like. No. 1,352,392; Sept. 7; v. 278; p. 129.

Stevenson Mfg. Co. (See Stevenson, Charles M., assignor.)

Stewart, John S., Youngstown, Ohio. Hair-comb. No. 1,354,143; Sept. 28; v. 278; p. 617.

Stewart, Paul, Brocksburg, Nebr. Horse-detacher. No. 1,354,067; Sept. 28; v. 278; p. 602.

Stewart, Sylvester N., Dayton, Ohio. Composite railway car. No. 1,351,972; Sept. 7; v. 278; p. 52.

Stewart-Warner Speedometer Corporation. (See Van Guilder, Walter, assignor.)

Stickney, Burnham C. (See Thomas, E., and Stickney.)

Stifel, Herman, *et al.* (See Hachmann, Frederick, assignor.)

Stiles, Dewey E., Los Angeles, Calif. Film-retouching holder. No. 1,352,037; Sept. 7; v. 278; p. 63.

Stinson, Lewis K. (See Robinson, H. G., and Stinson.)

Stirling Machine and Wire Works, Beneficial Trust Association. (See McPhail, Archibald, assignor.)

Stoekle, Erwin R., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube device. No. 1,353,976; Sept. 28; v. 278; p. 583.

Stokes, Charles L., Millong, via Young, New South Wales, Australia. Carbureter. No. 1,353,288; Sept. 21; v. 278; p. 402.

Stokes, Fremont, Little Rock, Ark. Internal-combustion engine. No. 1,353,289; Sept. 21; v. 278; p. 402.

Stokes, Jos., Rubber Company. (See Boyer, Harry L., assignor.)

Stokes, Joseph, Rubber Company. (See Boyer, Harry L., assignor.)

Stokes & Smith Company. (See Reifsnyder, James D., assignor.)

Stokes & Smith Company. (See Weightman, W. A., and Nitsch, assignors.)

Stokke, Iver, Sioux Falls, S. D. Compression-air-valve diaphragm. No. 1,353,290; Sept. 21; v. 278; p. 402.

Stone, Charles M., assignor to Crompton & Knowles Loom Works, Lewiston, Me. Warp stop-motion. No. 1,352,558; Sept. 14; v. 278; p. 199.

Stone, J., & Company. (See Rohman, Harry D., assignor.)

Stone, Lloyd B., Tacoma, assignor to Star Device Manufacturing Company, King county, Wash. Switch-lock. No. 1,351,973; Sept. 7; v. 278; p. 52.

Stone, Nathan M., Chicago, Ill. Dental lamp. No. 1,352,995; Sept. 14; v. 278; p. 286.

Stone, Thomas W., assignor to Western Gas Construction Company, Fort Wayne, Ind. Valve-control mechanism. No. 1,353,977; Sept. 28; v. 278; p. 583.

Stookey, Walter J., Vallejo, Calif. Combination garment. No. 1,354,352; Sept. 28; v. 278; p. 660.

Storm, Gustav F., Sanborn, Iowa. Ditch-filler. No. 1,352,155; Sept. 7; v. 278; p. 85.

Storm, Gustav F., Sanborn, Iowa. Eye-guard. No. 1,352,156; Sept. 7; v. 278; p. 85.

Stotboff, William S., and C. A. Psilander, assignors to William Wharton, Jr., & Co., Incorporated, Easton, Pa. Tractor-wheel. No. 1,352,635; Sept. 14; v. 278; p. 214.

Straessle, Anton, Zurich, Switzerland. Massaging-machine. No. 1,353,809; Sept. 21; v. 278; p. 505.

Straight, Halver R., Adel, Iowa. Drain-tile. No. 1,351,878; Sept. 7; v. 278; p. 33.

Strain, Charles M., Crawfordsville, Iowa. Disk-sharpening machine. No. 1,352,324; Sept. 7; v. 278; p. 117.

Strait, William, Appleton, Wis., assignor to The Cleveland Tractor Company, Euclid, Ohio. Traction-machine. No. 1,353,617; Sept. 21; v. 278; p. 468.

Straith, John, Richmond, Va. Clothes-drier. No. 1,353,670; Sept. 21; v. 278; p. 479.

Stramaglia, Nicola, Chicago, Ill. Automatic train-stop. No. 1,353,084; Sept. 14; v. 278; p. 303.

Stratton, Nathaniel A., Boston, Mass. Crushing and pulverizing machine. No. 1,354,077; Sept. 28; v. 278; p. 604.

Streich, William F., Detroit, Mich. Drawer-stabilizer. No. 1,352,924; Sept. 14; v. 278; p. 272.

Stretton, Theodore, Cardiff, Wales, and J. W. Jones, Cannock, England, assignors to Hastam & Stretton Limited, Cardiff, Wales. Miner's electric lamp. No. 1,352,636; Sept. 14; v. 278; p. 214.

Strohacker, Louis, assignor to Structo Manufacturing Company, Freeport, Ill. Toy tractor-chain and link therefor. No. 1,353,861; Sept. 28; v. 278; p. 560.

Stromberg-Carlson Telephone Manufacturing Company, The. (See Paca, William S., assignor.)

Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)

Stromberg Motor Devices Company. (See Edwards, Francis E., assignor.)

Stromberg Motor Devices Company. (See Maegly, George B., assignor.)

Strong Machinery & Supply Co., The. (See Hatfield, Andrew L., assignor.)

Stroud, Edmund H., Chicago, Ill. Apparatus for supplying powdered fuel to furnaces. No. 1,353,291; Sept. 21; v. 278; p. 403.

Struchen, Henry C., St. Paul, Minn. Brake for trucks and similar vehicles. No. 1,353,862; Sept. 28; v. 278; p. 560.

Structo Manufacturing Company. (See Strohacker, Louis, assignor.)

Strukell, Antony, assignor of one-fourth to H. B. Dods, Brooklyn, N. Y. Thread-cutting machine. No. 1,354,078; Sept. 28; v. 278; p. 604.

Stryker, Jesse C., *et al.* (See Procunier, Frank R., assignor.)

Stuart, Charles J., Somerville, Mass. Automatic controlling device. No. 1,353,484; Sept. 21; v. 278; p. 481.
Stuart, David K. (See Newman, W. E., and Stuart.)
Stuart, Edwards B., Chicago, Ill. Typewriting-machine. No. 1,352,229; Sept. 7; v. 278; p. 99.
Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Apparatus for storing coal, ore, and other materials. No. 1,354,226; Sept. 28; v. 278; p. 634.
Stubblefield, John A., Oregon City, Oreg. Nut-lock. No. 1,351,974; Sept. 7; v. 278; p. 52.
Stupar, Max, assignor to Abraham J. Elias, Buffalo, N. Y. Rudder for hydroaeroplanes. No. 1,354,353; Sept. 28; v. 278; p. 660.
Sturgis Steel Go-Cart Company. (See Lindberg, Charles A., assignor.)
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,545; Sept. 21; v. 278; p. 453.
Sturtevant, Thomas J., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,546; Sept. 21; v. 278; p. 453.
Sturtevant, Thomas J., Wellesley, assignor, by mesne assignments, to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,547; Sept. 21; v. 278; p. 453.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,548; Sept. 21; v. 278; p. 453.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,549; Sept. 21; v. 278; p. 454.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,550; Sept. 21; v. 278; p. 454.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,353,551; Sept. 21; v. 278; p. 454.
Sturtze, John G., Lowville, N. Y. Adjustable platform for uay-loaders. No. 1,352,996; Sept. 14; v. 278; p. 286.
Sudler, Charles E (See Sudler, Emory and C. E.)
Sudler, Emery and C. E., New York, N. Y. Typewriter attachment. No. 1,353,939; Sept. 28; v. 278; p. 575
Suekoff, Louis A., Chicago, Ill. Spring-inserting tool. No. 1,352,157; Sept. 7; v. 278; p. 85.
Sugar Centrifugal Discharger Company. (See Roberts, Eugene, assignor.)
Sullivan, Ward, Sidney, Ohio. Fruit-peeler. No. 1,352,325; Sept. 7; v. 278; p. 117.
Sullivan, William E., Roodhouse, Ill. Truck. No. 1,351,808; Sept. 7; v. 278; p. 18.
Summers, Mark L., Hammonton, Calif., assignor to Taylor-Wharton Iron and Steel Company, Highbridge, N. J. Dredge-tumbler. No. 1,352,997; Sept. 14; v. 278; p. 286.
Sumner, Henry W., Seattle, Wash. Fuel-feeding device for oil-engines. No. 1,352,637; Sept. 14; v. 278; p. 214.
Sundstrand, Gustaf D., assignor to Rockford Milling Machine Company, Rockford, Ill. Milling-machine. No. 1,352,849; Sept. 14; v. 278; p. 257.
Supple, Clare M., Boston, Mass. Stocking-supporter. No. 1,353,671; Sept. 21; v. 278; p. 479.
Surface, William E., assignor to Faries Manufacturing Co., Decatur, Ill. Shade-holder for electric-light bulbs. No. 1,351,879; Sept. 7; v. 278; p. 33.
Surprise, Joseph, New Haven, Conn. Track for sliding doors. No. 1,352,100; Sept. 7; v. 278; p. 75.
Sutherland, Forrest A., assignor to Great Northern Paper Company, Millinocket, Me. Wrapping-machine. No. 1,351,809; Sept 7; v. 278; p. 19.
Svenska Aktiebolaget Mono. (See Wener, Nils, assignor.)
Swales, Albert B., London, England. Cabinet. No. 1,352,101; Sept. 7; v. 278; p. 75.
Swann, James E. C., Virginia Beach, Va. Commutation-book. No. 1,353,189; Sept. 21; v. 278; p. 383.
Swanson, Hjalmar, assignor to The B. F. Cummins Perforator Company, Chicago, Ill. Punching-machine. No. 1,353,292; Sept. 21; v. 278; p. 403.
Swanson, Peter, Soudan, Minn. Auxiliary car-step. No. 1,353,364; Sept. 21; v. 278; p. 417.
Swatzell, David N., assignor of one-fourth to B. P. Cox, one-fourth to R. C. Adcock, and one-fourth to W. A. Swatzell, Birmingham, Ala. Motor-driven hair-clipper. No. 1,352,326; Sept. 7; v. 278; p. 118.
Swatzell, W. A., *et al.* (See Swatzell, David N., assignor.)
Swedlund, Erick J., Williston, N. D. Separable cuff-button. No. 1,353,085; Sept. 14; v. 278; p. 303.
Sweeney, Frank H., San Francisco, Calif. Direction-indicator for vehicles. No. 1,352,327; Sept. 7; v. 278; p. 118.
Sweet, Alvin H., Los Angeles, Calif. Windshield attachment for auto-vehicles. No. 1,353,552; Sept. 21; v. 278; p. 454.
Sweet, Alvin H., Los Angeles, Calif. Side bumper for vehicles. No. 1,353,553; Sept. 21; v. 278; p. 455.
Sweet, Parker H., Boonton, N. J., assignor to The Barker-Sweet Manufacturing Company, Jamaica, N. Y. Gin or linter saw. No. 1,353,435; Sept. 21; v. 278; p. 431.
Sweetser, Emery B., Brooklyn, N. Y. Saltcellar. No. 1,352,701; Sept. 14; v. 278; p. 227.
Sweningson, Louis, *et al.* (See Woodward, William H., assignor.)
Swick, Clyde E., San Francisco, Calif., assignor to Hawley Pulp and Paper Company. Delivery mechanism. No. 1,354,144; Sept. 28; v. 278; p. 618.
Swickard, Frank, assignor of ninety-nine per cent. to L. J. Swickard, Fort Bridger, Wyo. Flytrap. No. 1,353,672; Sept. 21; v. 278; p. 480.
Swickard, Laura J. (See Swickard, Frank, assignor.)
Swift, George W., Jr., Bordentown, N. J. Creasing and slotting machine. No. 1,353,086; Sept. 14; v. 278; p. 303.
Swift, George W., Jr., Bordentown, N. J. Feed mechanism. No. 1,353,088; Sept. 14; v. 278; p. 303.
Swift, George W., Jr., Bordentown, N. J. Feed mechanism for slotting and creasing machines. No. 1,353,087; Sept. 14; v. 278; p. 303.
Swisher, R. D., Manufacturing Company. (See Folger, H. S., and Ross, assignors.)
Swygert, George S., Columbia, S. C. Filing-gage. No. 1,353,089; Sept. 14; v. 278; p. 304.
Symes, Henry, Dunedin, New Zealand. Automatic telephone system. No. 1,353,673; Sept. 21; v. 278; p. 480.
Szekely, Ernest, assignor to American Blower Company, Detroit, Mich. Manometer. No. 1,352,038; Sept. 7; v. 278; p. 63.
Taber, George H., assignor to Emco Manufacturing Company, Inc., Binghamton, N. Y. Muffler. No. 1,353,863; Sept. 28; v. 278; p. 560.
Tainter, Charles R. (See Lenbolt, John E., assignor.)
Taliaferro, James W, Seattle, Wash. Dental articulator. No. 1,354,454; Sept. 28; v. 278; p. 680.
Tambach, Rudolf, assignor, by mesne assignments, to The Chemical Foundation, Inc., Ludwigshafen-on-the-Rhine, Germany. Producing tannate-lime compound difficultly soluble in dilute acid. No. 1,352,768; Sept. 14; v. 278; p. 241.
Tamm, Alfred M., and J. Tennessen, Jr., Brillion, Wis. Blower-pipe, wind-break, and silage-distributer. No. 1,353,674; Sept. 21; v. 278; p. 480.
Tannehill, Arthur L. (See Copthorne, H. N., and Tannehill.)
Tarrant, Roy C. (See Anderegg, George, assignor.)
Tate, McGarvey E. and R. M., Somerset, Ky Door-check. No. 1,354,079; Sept. 28; v. 278; p. 604.
Tate, Robert M. (See Tate, McGarvey E. and R. M.)
Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Seam. No. 1,353,554; Sept. 21; v. 278; p. 456.
Tatro, Adelor E., Everett, Mass. Pipe-fitting. No. 1,352,102; Sept. 7; v. 278; p. 75.
Tausch, Joseph H., Chicago Ridge, Ill., assignor to G. Gorton, Racine, Wis. Fence-machine. No. 1,351,810; Sept. 7; v. 278; p. 19.
Taylor, Augustus. (See Elliott, Harold F., assignor.)
Taylor, Ernest J., Everett, Mass. Mold and forming porcelain insulators therein. No. 1,351,929; Sept. 7; v. 278; p. 43.
Taylor, Harry H., Hutchinson, Kans. Electric generator attachment for windmills. No. 1,351,975; Sept. 7; v. 278; p. 52.
Taylor, Richard L. D., assignor to Predigest Food Company, Limited, Toronto, Ontario, Canada. Manufacture of animal foods from kitchen waste and the like. No. 1,354,068; Sept. 28; v. 278; p. 602.
Taylor-Wharton Iron and Steel Company. (See Alexander, E. E., and Piggott, assignors.)
Taylor-Wharton Iron and Steel Company. (See Crook, A., and Chapman, assignors.)
Taylor-Wharton Iron and Steel Company. (See Mayer, Waldermar F., assignor.)
Taylor-Wharton Iron and Steel Company. (See Summers, Mark L., assignor.)
Tedesco, Arrigo, assignor to Societa Anonima Stabilimenti Biak, Turin, Italy. Alloy having high mechanical, chemical, and electrical resistance. No. 1,351,811; Sept. 7; v. 278; p. 19.
Teel, Lawrence H., Salem, Mass. Tire-holder for automobiles. No. 1,352,559; Sept. 14; v. 278; p. 109.
Teeples, Clarence. (See Wright, W. M., Teeples, and Lamb.)
Tehur, Dyon, Calgary, Alberta, Canada. Milking-machine. No. 1,354,145; Sept. 28; v. 278; p. 618.
Tennessen, John, Jr. (See Tamm, A. M., and Tennessen.)
Terhaar, Aloysius S., San Diego, Calif. Safety appliance for ships. No. 1,354,069; Sept. 28; v. 278; p. 602.
Teach, August W., Lansing, Ill. Resilient wheel. No. 1,352,769; Sept. 14; v. 278; p. 241.
Thain, Joseph H. (See Chicken, C. B., and Thain.)
Thaxton, Guy W., Fairfield, Ala. Signaling system. No. 1,353,436; Sept. 21; v. 278; p. 431.
Thibert, Napoleon R., Worcester, Mass. Lock-nut. No. 1,352,103; Sept. 7; v. 278; p. 75.
Thiel, Louis, assignor to The Cincinnati Lathe & Tool Company, Cincinnati, Ohio. Lathe-gearing. No. 1,352,925; Sept. 14; v. 278; p. 272.
Thiel, Otto, Landstuhl, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Treating molten metal. No. 1,353,126; Sept. 14; v. 278; p. 310.
Thies, Joseph, Great Bend, Kans. Barge. No. 1,353,190; Sept. 21; v. 278; p. 384.
Thomas, Edward, New York, N. Y., and B. C. Stickney, Elizabeth, N. J., assignors to Underwood Computing Machine Company, New York, N. Y. Typewriting-machine. No. 1,351,812; Sept. 7; v. 278; p. 19.

Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Switch-handle. No. 1,353,675; Sept. 21; v. 278; p. 480.
Thomas, Horace T., Lansing, Mich. Cooling system for automobile-engines. No. 1,352,560; Sept. 14; v. 278; p. 199.
Thomas, James F., Clarinda, Iowa. Garment-pressing device. No. 1,352,158; Sept. 7; v. 278; p. 86.
Thomas, Laurence H. (See Kuhn, F., Thomas, and Spiers.)
Thomas-Oberkirch Company, Limited. (See Thomas, William M., assignor.)
Thomas, Philip P., trustee. (See Kaufmann, M. M., and Lynn, assignors.)
Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. No. 1,354,146; Sept. 28; v. 278; p. 618.
Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser and making same. No. 1,354,147; Sept. 28; v. 278; p. 618.
Thomas, Wilfred V., Catskill, N. Y. Self-oiling governor. No. 1,352,850; Sept. 14; v. 278; p. 257.
Thomas, William M., New York, N. Y., assignor to Thomas-Oberkirch Company, Limited. Direct-vision view-finder for motion-picture cameras. No. 1,353,191; Sept. 21; v. 278; p. 384.
Thomassian, Daniel T., St. Paul, Minn. Wind instrument. No. 1,353,864; Sept. 28; v. 278; p. 561.
Thomasson, Lewis T., Corinth, Miss. Garden-plow. No. 1,353,091; Sept. 14; v. 278; p. 304.
Thompson, Albert R., assignor to Anderson-Barn-Grover Mfg. Co., San Jose, Calif. Fruit and vegetable washer. No. 1,352,393; Sept. 7; v. 278; p. 130.
Thompson, Albert R., Tacoma, Wash. Tire-mold. No. 1,354,227; Sept. 28; v. 278; p. 635.
Thompson, Charles E., assignor of one-half to T. J. Hill, New York, N. Y. Wheel-lock. No. 1,353,117; Sept. 14; v. 278; p. 309.
Thompson, Eddie G., Devils Lake, N. D. Valve-grinding tool. No. 1,352,638; Sept. 14; v. 278; p. 214.
Thompson, Emory A., Hope, Ark. Vehicle-wheel. No. 1,352,639; Sept. 14; v. 278; p. 214.
Thompson, Frank P., *et al.* (See Bredsvold, Paul A., assignor.)
Thompson, George E., and P. A. Udall, Stockton, Calif. Fluid-pressure transmission. No. 1,354,228; Sept. 28; v. 278; p. 635.
Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Telephone-transmitter. No. 1,354,229; Sept. 28; v. 278 p. 635.
Thompson, Herbert A. (See Smith, L. E., Zulver, and Thompson.)
Thompson, Herbert L., Elgin, Ill., assignor to The Maytag Company, Newton, Iowa. Internal-combustion engine. No. 1,351,880; Sept. 7; v. 278; p. 34.
Thompson, James M., Buffalo, N. Y. Construction of ships. No. 1,352,998; Sept. 14; v. 278; p. 287.
Thompson, John F., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Cartridge. No. 1,353,118; Sept. 14; v. 278; p. 309.
Thompson, John T., Newport, Ky., and H. H. Cummings, Newton, Mass.; said Cummings assignor, by mesne assignments, of one-half to T. F. Ryan, New York, N. Y. Cartridge-magazine. No. 1,353,092; Sept. 14; v. 278; p. 304.
Thompson, Mat R., Chicago, Ill. Disk flange attachment to autos and trailers. No. 1,352,561; Sept. 14; v. 278; p. 199.
Thompson, Perry D., Tulsa, Okla. Chain-hook. No. 1,353,676; Sept. 21; v. 278; p. 480.
Thompson, William P., Liverpool, England. Flying-machine. No. 1,351,976; Sept. 7; v. 278; p. 52.
Thomson, John, Brooklyn, N. Y. Electric furnace. No. 1,351,977; Sept. 7; v. 278; p. 52.
Thomson Spot Welder Company. (See Gravell, James H., assignor.)
Thornycroft, John I., and Company. (See Hampton, James, assignor.)
Thorton, Douglas. (See Cook, Elmer E., assignor.)
Thropp, Joseph W., Trenton, N. J. Means for adjusting rolls. No. 1,352,999; Sept. 14; v. 278; p. 287.
Thurston, Ernest B., assignor to The Haughton Elevator and Machine Company, Toledo, Ohio. Alternating-current electromagnet. No. 1,352,926; Sept. 14; v. 278; p. 272.
Thurston, Ernest B., assignor to The Haughton Elevator and Machine Company, Toledo, Ohio. Electric switch. No. 1,352,927; Sept. 14; v. 278; p. 272.
Thurston, Ernest B., assignor to The Haughton Elevator & Machine Co., Toledo, Ohio. Progressive manufacture conveyers. No. 1,352,928; Sept. 14; v. 278; p. 272.
Tideman, Pieter G. (See Dominicus, Cornelis, assignor.)
Tiefel, Charles G. (See Todd, L. M., and Tiefel.)
Tiefel, Charles G., assignor to Todd Protectograph Company, Inc., Rochester, N. Y. Check-writer. No. 1,353,437; Sept. 21; v. 278; p. 431.
Tiencken, Wiley E., Mount Pleasant, S. C. Safety-pin. No. 1,353,093; Sept. 14; v. 278; p. 304.
Tillinghast, James A., Providence, R. I. Apparatus for electrical transmission of intelligence by wire. No. 1,353,000; Sept. 14; v. 278; p. 287.
Tillman, Ferdinand J., assignor to Typewriting Calculating Attachment Company, St. Louis, Mo. Calculating-machine. No. 1,353,293; Sept. 21; v. 278; p. 403.
Timberlake, Daniel T., St. Louis, assignor to Universal Motor Truck and Traction Engine Company, St. James, Mo. Power-driven-truck steering-gear. No. 1,354,148; Sept. 28; v. 278; p. 619.
Tinker, Ralph, Little York, Ill. Steering means for tractors and other vehicles. No. 1,353,192; Sept. 21; v. 278; p. 384.
Todd, E. N., Milburn, and W. R. King, assignors to The Hanson & Van Winkle Company, Newark, N. J. Nickel plating. No. 1,352,328; Sept. 7; v. 278; p. 118.
Todd, Libanus M., and C. G. Tiefel, assignors, by mesne assignments, to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,353,618; Sept. 21; v. 278; p. 468.
Todd Protectograph Company. (See Tiefel, Charles G., assignor.)
Todd Protectograph Company. (See Todd, L. M., and Tiefel, assignors.)
Toennesen, Peter S. (See Kallom, F. W., and Toennesen,)
Tohtz, Helmuth W. (See Brecht, Frank v., and Tohtz.)
Tokanos, Frank, Long Branch, N. J. Automobile safety-signal. No. 1,352,039; Sept. 7; v. 278; p. 63.
Tokash, Julia, McDowell, W. Va. Flytrap. No. 1,352,562; Sept. 14; v. 278; p. 199.
Toland, Thomas L., Dallas, Tex. Adjustable book-cover. No. 1,354,354; Sept. 28; v. 278; p. 660.
Tokanos, Frank, Long Branch, N. J. Automobile safety-signal. No. 1,352,039; Sept. 7; v. 278; p. 63.
Toledo Standard Commutator Co., The. (See Sloan, Sebastian N., assignor.)
Toledo Standard Commutator Co., The. (See Van Dusen, Charles A., assignor.
Tolmon Print, Inc. (See Heard, Ralph G., assignor.)
Tomlinson, Charles H. (See Averill, R. G., and Tomlinson.)
Tomlinson, Elmer. (See Pinkerton, James W., and Tomlinson, assignor.)
Tomlinson, George E., Winchester, Ky. Flexible coupling. No. 1,353,677; Sept. 21; v. 278; p. 481.
Torrent, John, Jr., Muskegon, Mich. Antifreeze device for radiators. No. 1,353,678; Sept. 21; v. 278; p. 481.
Townsend, Charles L. (See Runne, Henry G., assignor.)
Townsend, Fred, assignor of one-half to J. R. Randall, Chicago, Ill. Peanut-blanching machine. No. 1,352,702; Sept. 14; v. 278; p. 227.
Townsend, William S., assignor to Guarantee Visible Measure Sales Company, Washington, D. C. Liquid-gage. No. 1,352,193; Sept. 21; v. 278; p. 384.
Tractor-Train Company. (See Moore, Henry N., assignor.) (Reissue.)
Tracy, Clarence O., Denver, Colo. Automatically-operating motor-driven carrier. No. 1,351,930; Sept. 7; v. 278; p. 43.
Traeger, Alfred. (See Spindler, Ferdinand G., assignor.)
Travis, Don C. (See Barnes, G. W., and Travis.)
Traywick, Walter F., assignor of one-third to B. T. Bumgardners, and one-third to C. E. Ware, Belmont, N. C. Safety stop-motion for speeder-machines. No. 1,354,070; Sept. 28; v. 278; p. 603.
Treanor, Christopher, Oakland, Calif. Street-indicator. No. 1,354,149; Sept. 28; v. 278; p. 619.
Tremblay, Patrick F., *et al.* (See Curran, William, assignor.)
Tremont Products Company. (See Smith, Raymond D., assignor.)
Trimble, Harry J. (See Gillespie, Thomas J., assignor.)
Trimer, James M., Chicago, Ill. Scale. No. 1,352,104; Sept. 7; v. 278; p. 76.
Tripp, Charles A., Wilmington, Del., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Drain-pipe for liquid-dispensers. No. 1,352,640; Sept. 14; v. 278; p. 215.
Troll, Frederick J., assignor to The Loadometer Company, Baltimore, Md. Scale. No. 1,354,447; Sept. 28; v. 278; p. 679.
Trosdahl, Knut. (See Arntzen, Anders, and Trosdahl.)
Trosien, Charles G., Pontiac, Mich. Gear-lock for automobiles. No. 1,353,119; Sept. 14; v. 278; p. 309.
Trosien, Charles G., Pontiac, Mich. Gear-lock for automobiles. No. 1,353,120; Sept. 14; v. 278; p. 309.
Troyer, Nelson, assignor of one-half to Seattle-Astoria Iron Works, Seattle, Wash. Machine for applying compound to can-tops. No. 1,352,641; Sept. 14; v. 278; p. 215.
Trumbull Electric Manufacturing Company, The. (See Broadwell, Harry M., assignor.)
Trumbull, Harlowe E., Amesbury, Mass. Riveting-machine. No. 1,352,851; Sept. 14; v. 278; p. 257.
Trumpour, Frederick J., Washington, D. C. Draft appliance. No. 1,353,094; Sept. 14; v. 278; p. 304
Tryon, Edward E., assignor to The Auto Supply Manufacturing Company, Hartford, Conn. Signal device. No. 1,354,355; Sept. 28; v. 278; p. 660.
Tschache, Edward D., assignor to Washburn Crosby Company, Minneapolis, Minn. Conveying and tipping apparatus. No. 1,352,329; Sept. 7; v. 278; p. 118.
Tubal Corporation. (See McGall, Albert, assignor.)
Tucker, Benjamin W. (See Schwarzenbach, A. J., and Tucker.)
Tucker, Chas. L. (See Tucker, Mat A., assignor.)
Tucker, Mat A., assignor of one-third to C. L. Tucker, Moore, Okla. Dirigible headlight. No. 1,352,394; Sept. 7; v. 278; p. 130.
Tucker, Montravel H., Blanca, Colo. Weir for irrigation-ditches for measuring water. No. 1,352,929; Sept. 14; v. 278; p. 273.

Tulek, William B., New York, N. Y. Fixture for use in cutter-grinding and similar operations. No. 1,352,703; Sept. 14; v. 278; p. 227.
Turbo Rotary Engine Company. (See Carroll, John D., assignor.)
Turner, Charles A. (See Edwards H. B., Turner, and Reed.)
Turner, Louis N., *et al.* (See Procunier, Frank R., assignor.)
Twiford, William R., Manville, Wyo. Pump. No. 1,351,813; Sept. 7; v. 278; p. 19.
Twyman, Thomas W., Avella, Pa. Combined trolley-wire and guard hanger. No. 1,352,105; Sept. 7; v. 278; p. 70.
Tyler, Ralph S., Cleveland Heights village, assignor to The Chandler and Price Company, Cleveland, Ohio. Inking mechanism for printing-presses. No. 1,352,159; Sept. 7; v. 278; p. 86.
Tyler, Sidney J., Afton, Okla. Fixing-bath and developing-tray support and rocker. No. 1,352,330; Sept. 7; v. 278; p. 118.
Typewriting Calculating Attachment Company. (See Tillman, Ferdinand J., assignor.)
U. S. Light & Heat Corporation. (See Bliss, William L., assignor.)
U. S. Light & Heat Corporation. (See Zimmerman, Thomas, assignor.)
Udall, Philip A. (See Thompson, G. E., and Udall.
Uebele, Joseph E. (See McKnight, Boyd L., assignor.)
Uhlemann, Theodore F., assignor to Nicholas Power Company, New York, N. Y. Framing mechanism for moving-picture machines. No. 1,351,814; Sept. 7; v. 278; p. 20.
Ullmann, Emanuel S., New York, N. Y. Apparatus for mooring airships. No. 1,351,931; Sept. 7; v. 278; p. 44.
Ulrich, William P., Oslo, Minn. Mechanical movement. No. 1,351,978; Sept. 7; v. 278; p. 53.
Underhill, Charles R., New Haven, Conn. Gear-shifting mechanism. No. 1,353,488; Sept. 21; v. 278; p. 431.
Underwood Computing Machine Company. (See Thomas, E., and Stickney.)
Underwood, Oliver E. (See Barker, G. P., and Underwood.)
Underwood Typewriter Company. (See Burridge, Lee S., assignor.)
Underwood Typewriter Company. (See Helmond, William F., assignor.)
Unger, Warren, Kentland, Ind. Loading apparatus. No. 1,351,932; Sept. 7; v. 278; p. 44.
Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)
Union Special Machine Company. (See Moffatt, James R., assignor.)
Union Special Machine Company. (See Tate, Samuel G., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
United Shoe Machinery Corporation. (See Bassett, R. W. C., and Jerram, assignors.)
United Shoe Machinery Corporation. (See Baxter, William C., assignor.)
United Shoe Machinery Corporation. (See Black, George H., assignor.)
United Shoe Machinery Corporation. (See Carey, Charles H., assignor.)
United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
United Shoe Machinery Corporation. (See Fausse, Joseph, assignor.)
United Shoe Machinery Corporation. (See Goddard, J. W., and Jerram, assignors.)
United Shoe Machinery Corporation. (See Hart, Fred V., assignor.)
United Shoe Machinery Corporation. (See Hill, George S., assignor.)
United Shoe Machinery Corporation. (See Krippendorf, P. F. W. C., assignor.)
United Shoe Machinery Corporation. (See Loomer, Henry M., assignor.)
United Shoe Machinery Corporation. (See McCormack, Andrew J., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Cast Iron Pipe and Foundry Company. (See Ladd, James B., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Lemoine, Louis R., assignor.)
United States Novelty Mfg. Co. (See Lavigne, Joseph R., assignor.)
United States Tire Company. (See Backdahl, Carl G. A., assignor.)
United States Window Glass Company. (See De Vaughn, Harry E., assignor.)
United Steel and Wire Co. (See Genebach, George J., assignor.)
United-Xpedite Finishing Company. (See Standish, John F., assignor.)
Universal Motor Truck and Traction Engine Company. (See Timberlake, Daniel T., assignor.)
Unno, Umikichi, Tokyo, Japan. Electroplating non-conducting substances with copper. No. 1,352,331; Sept. 7; v. 278; p. 118.
Utility Compressor Company. (See Holley, C. M., and Robison, assignors.)
Uttech, Henry C., Lebanon, and A. E. Ohrmundt, Milwaukee, Wis. Oil-retainer. No. 1,353,095; Sept. 14; v. 278; p. 305.
Uriarte, Gorgonio, Madrid, Spain. Breakwater or the like. No. 1,353,001; Sept. 14; v. 278; p. 287.
Vacuum Muffler Corporation, The. (See Andresen, Halvor, assignor.)
Valentin, Marcel, Mexico, Mexico. Process and apparatus for dredging by suction. No. 1,351,979; Sept. 7; v. 278; p. 58.
Van Brocklen, M. E., and R. Haiden, Amsterdam, N. Y. Roller-cleaner. No. 1,352,852; Sept. 14; v. 278; p. 258.
Van Dusen, Charles A., assignor, by mesne assignments, to The Toledo Standard Commutator Co., Toledo, Ohio. Spool or holder for commutators. No. 1,354,007; Sept. 28; v. 278; p. 589.
Van Dyke, Benjamin G., Jr., Detroit, Mich. Railway-track crossing. No. 1,354,080; Sept. 28; v. 278; p. 605.
Van Guilder, Walter, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Speed-indicating instrument. No. 1,353,865; Sept. 28; v. 278; p. 561.
Van Heusen, John M., Jamaica Plain, Mass. Collar. No. 1,352,563; Sept. 14; v. 278; p. 200.
Van Heusen, John M., Jamaica Plain, Mass. Shirt. No. 1,352,704; Sept. 14; v. 278; p. 228.
Van Heusen, John M., Jamaica Plain, Mass. Collar. No. 1,352,705; Sept. 14; v. 278; p. 228.
Van Heusen, John M., Jamaica Plain, Mass. Collar. No. 1,352,706; Sept. 14; v. 278; p. 228.
Van Horn, Samuel E., Manhasset, N. Y. Float for boats. No. 1,352,770; Sept. 14; v. 278; p. 241.
Van Osdel, William J., Chicago, Ill. Rotary engine. No. 1,351,933; Sept. 7; v. 278; p. 44.
Vanmeter, James W., San Francisco, Calif. Stamp-mill. No. 1,353,096; Sept. 14; v. 278; p. 505.
Vanmeter, James W., San Francisco, Calif. Ore stamp-mill. No. 1,353,097; Sept. 14; v. 278; p. 305.
Vapor Car Heating Company, Inc. (See Schreiber, Edward A., assignor.)
Variety Manufacturing Company. (See Gervais, Wainwright B., assignor.)
Varley, Thomas W., New York, N. Y. Electric meter. No. 1,352,564; Sept. 14; v. 278; p. 200.
Vartuli Francis C., Winooski, Vt. Combination-lock. No. 1,352,771; Sept. 14; v. 278; p. 241.
Vaughan, P. E., and S. M. Halstead, San Jose, Calif. Well construction. No. 1,353,132; Sept. 14; v. 278; p. 312.
Vaughan, Robert B., and R. M. Love, Dallas, Tex. Curing-house. No. 1,354,008; Sept. 28; v. 278; p. 589.
Vaughn, Arthur D. (See Lang, D. W., and Vaughn.)
Veatch, Leslie R., Buffalo, N. Y. Feed-mixer. No. 1,353,978; Sept. 28; v. 278; p. 583.
Venard, Peter L., Denver, Colo. Fountain mucilage-brush. No. 1,353,679; Sept. 21; v. 278; p. 481.
Vernon, James B., Princeton, W. Va. Automatic starting and equalizing pressure-valve for compound engines. No. 1,352,853; Sept. 14; v. 278; p. 258.
Vescovi, Pietro P., Ottawa, Kans. Portable fire-escape. No. 1,352,230; Sept. 7; v. 278; p. 99.
Vesely, Bedrich, and W. Fajman, New York, N. Y. Shank-button machine. No. 1,353,680; Sept. 21; v. 278; p. 480.
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vickers Limited. (See Elia, Grovanni E., assignor.)
Vickers Limited. (See McKechnie, James, assignor.)
Victor Talking Machine Company. (See Johnson, Eldridge R., assignor.)
Victor Tool Company. (See Koontz, Victor, assignor.)
Victor Typewriter Company. (See Hagerstrom, John A., assignor.)
Vidaver, Maxwell, New York, N. Y. Apparatus for manufacturing toilet-pins. No. 1,353,294; Sept. 21; v. 278; p. 408.
Viele, Sylvester M., Altoona, Pa. Method and mechanism for measuring fluid depths. No. 1,352,565; Sept. 14; v. 278; p. 200.
Viezzi, Luigi, West New York, N. J. Window-seat. No. 1,353,681; Sept. 21; v. 278; p. 481.
Viezzi, Luigi, West New York, assignor of one-half to F. L. Rohltsch, Union Hill, N. J. Scriber. No. 1,353,682; Sept. 21; v. 278; p. 481.
Villarboito, Felice. (See Gallo, Galileo, and Villarboito.)
Vincent, Harry S., Ridgewood, N. J. Throttle-valve. No. 1,352,772; Sept. 14; v. 278; p. 241.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,352,486; Sept. 14; v. 728; p. 184.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,352,487; Sept. 14; v. 278; p. 184.
Visserring, Harry, & Company. (See Anderson, Harry T., assignor.)
Visserring, Harry, & Company. (See Simonson, Sigvard, assignor.)
Vogelzang, Frank, Rock Valley, Iowa. Flying-machine. No. 1,353,501; Sept. 21; v. 278; p. 444.
Voll, Gustav, deceased; M. Voll, administratrix, Seattle, Wash. Safety device for ladders. No. 1,352,566; Sept. 14; v. 278; p. 200.
Voll, Marie, administratrix. (See Voll, Gustav.)
Vomela, Anton, St. Paul, Minn. Heel-fastening means. No. 1,354,556; Sept. 28; v. 278; p. 660.

Von Henke, Edmund J., New York, N. Y. Apparatus for and method of welding. No. 1,351,815; Sept. 7; v. 278; p. 20.
Von Schlegell, Frederick, Evanston, and W. B. Lewis, Chicago, Ill. Electric furnace. No. 1,352,040; Sept. 7; v. 278; p. 63.
Von Schlegell, Frederick, Evanston, Ill. Electric-arc furnace. No. 1,352,541; Sept. 14; v. 278; p. 194.
Vondrée, Frank, Ilkley, England. Combination sewing-table and needlework-bag. No. 1,353,866; Sept. 28; v. 278; p. 561.
Voorhies, Felix E., Dallas, Tex. Cotton-seed-linting machine. No. 1,353,295; Sept. 21; v. 278; p. 403.
Vredenburgh, Raymond T., Brookline, Mass. Aerial observer's windshield. No. 1,352,106; Sept. 7; v. 278; p. 76.
Wade, Percy, assignor to The Weldit Company, Washington, D. C. Oil-burner system and torch therefor. No. 1,353,683; Sept. 21; v. 278; p. 482.
Wadsworth, Harry E., New York, and W. B. Ensign, White Plains, N. Y. Automatic electrical circuit-breaker. No. 1,352,707; Sept. 14; v. 278; p. 228.
Waechter, Charles H., New York, N. Y. Attachment for bathtubs. No. 1,353,313; Sept. 21; v. 278; p. 407.
Waegel, William, Reading, Pa. Flash-light holder. No. 1,352,708; Sept. 14; v. 278; p. 228.
Wagenhorst, James H., Akron, Ohio. Pump or compressor. No. 1,352,107; Sept. 7; v. 278; p. 76.
Wagner, Charles. (See Leist, W. C., and Wagner.)
Wagner Electric Manufacturing Company. (See Weichsel, Hans, assignor.)
Wagner, R. E., and W. E. Laird, Pittsfield, Mass., assignors to General Electric Company. Welding-machine. No. 1,353,684; Sept. 21; v. 278; p. 482.
Wagner, William F., North Braddock, Pa. Bolt-keeper. No. 1,353,440; Sept. 21; v. 278; p. 432.
Wagoner, Judson E., Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y. Mechanical stoker. No. 1,354,357; Sept. 28; v. 278; p. 661.
Wahlstrom, Charles S., Boulder, Colo. Truss. No. 1,353,867; Sept. 28; v. 278; p. 511.
Wainwright, Charles, Erie, Pa. Regulator for air-compressors. No. 1,353,098; Sept. 14; v. 278; p. 305.
Wais, Charles C., Cincinnati, Ohio, assignor of one-half to C. Schwerin, Covington, Ky. Protective pocket. No. 1,351,816; Sept. 7; v. 278; p. 20.
Waite, William T., Kansas City, Mo. Automatic drag for player-piano transmissions. No. 1,351,881; Sept. 7; v. 278; p. 34.
Wales Motors Corporation, The. (See Wales, Nathaniel B., assignor.)
Wales, Nathaniel B., New York, N. Y., assignor, by mesne assignments, to The Wales Motors Corporation. Power plant for automobiles. No. 1,353,099; Sept. 14; v. 278; p. 306.
Wales, Nathaniel B., assignor to Wales Motors Corporation, Detroit, Mich. Air-compression power plant. No. 1,353,100; Sept. 14; v. 278; p. 306.
Walker, Charles E., Grand Rapids, Mich. Reel. No. 1,352,041; Sept. 7; v. 278; p. 64.
Walker, Fred W., Hulbert, Okla. Educational chart. No. 1,352,042; Sept. 7; v. 278; p. 64.
Walker, George H., Worcester, assignor to Heenan & Froude, Limited, Manchester, England. Apparatus for treating gases with liquids. No. 1,353,685; Sept. 21; v. 278; p. 482.
Walker, Horace E., Norman, Okla. Cotton-boll extractor and cotton-cleaning machine. No. 1,354,358; Sept. 28; v. 278; p. 661.
Walker, Hubert, Cleckheaton, England. Apparatus for scouring, dyeing, or otherwise treating with liquor, wool, yarn, or other fibrous material. No. 1,354,081; Sept. 28; v. 278; p. 605.
Wallace, William W., Bucyrus, Ohio, assignor to R. C. Penfield, Chicago, Ill. Multiple-tool lathe. No. 1,353,686; Sept. 21; v. 278; p. 482.
Wallis, William F. (See Berry, William O., assignor.)
Walt, John J., Chicago, Ill. Tool for bending metal rods. No. 1,354,448; Sept. 28; v. 278; p. 679.
Walter, Cecil M., Four Oaks, near Birmingham, England. Electrolytic apparatus. No. 1,353,194; Sept. 21; v. 278; p. 384.
Walters, Canard J., Ellamar, Alaska. Turbine-engine. No. 1,353,687; Sept. 21; v. 278; p. 483.
Walters, James M., Los Angeles, Calif. Display-stand. No. 1,351,817; Sept. 7; v. 278; p. 20.
Walther, Henry S., and G. Henchoz, Yverdon, Switzerland. Butter-mixer. No. 1,354,230; Sept. 28; v. 278; p. 635.
Ward, Alexander L., New York, N. Y. Bending device for strap-fasteners. No. 1,354,150; Sept. 28; v. 278; p. 619.
Ward, Edward E., Chicago, Ill. Fuel-saving device. No. 1,352,043; Sept. 7; v. 278; p. 64.
Ward, Timothy F., Earleys, N. C. Barrel-head machine. No. 1,351,934; Sept. 7; v. 278; p. 44.
Ware, Charles E., *et al.* (See Traywick, Walter F., assignor.)
Ware, Fred S., Fulton, N. Y. Fuel-saving and speed-increasing attachment for engines. No. 1,352,709; Sept. 14; v. 278; p. 229.
Warfield, Aaron N., London, Ontario, Canada. Draft-rigging. No. 1,353,101; Sept. 14; v. 278; p. 306.
Warfield, Aaron N., London, Ontario, Canada. Doorway construction for cars. No. 1,353,102; Sept. 14; v. 278; p. 306.
Warner, Frank E. (See Warner, Percy de F., and F. E.)
Warner, P. de F., and F. E., Waterbury, assignors to Scovill Manufacturing Company, New Haven, Conn. Toggle-button. No. 1,353,439; Sept. 21; v. 278; p. 431.
Wartchow, George P., Minot, N. D. Saddle for mains. No. 1,354,359; Sept. 28; v. 278; p. 661.
Warwick, Clarence E., Whitetail, Mont. Heater for carbureters. No. 1,352,854; Sept. 14; v. 278; p. 258.
Washburn Crosby Company. (See Harding, Henry O. B., assignor.)
Washburn Crosby Company. (See Tschache, Edward D., assignor.)
Washburn, Thomas V., assignor of one-half to P. J. Murray, Carbondale, Pa. Vehicle-wheel. No. 1,354,269; Sept. 28; v. 278; p. 643.
Washington, Ruffus G., Chicago, Ill. Rail joint and support. No. 1,353,868; Sept. 28; v. 278; p. 561.
Waterbury Clock Co. (See Horn, Ernest H., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas P., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Pierson, William D., assignor.)
Waterhouse, George B., Buffalo, N. Y. Manufacture of steel. No. 1,352,710; Sept. 14; v. 278; p. 229.
Waterhouse, Norman, Croydon, New South Wales, Australia. Wedge-lock buckle for leaf-springs. No. 1,352,488; Sept. 14; v. 278; p. 184.
Waters, Archibald D., assignor to The Stanley Works, New Britain, Conn. Lid-supporting device. No. 1,352,711; Sept. 14; v. 278; p. 229.
Watling, John B., Chicago, Ill. Caster. No. 1,353,195; Sept. 21; v. 278; p. 385.
Watson, Chauncy R., *et al.* (See Hackmann, Frederick, assignor.)
Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,353,869; Sept. 28; v. 278; p. 561.
Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,353,870; Sept. 28; v. 278; p. 562.
Waugh, James M., Chicago, Ill. Draft-gear bracket. No. 1,353,871; Sept. 28; v. 278; p. 562.
Way, Clarence J., and W. A., Cleveland, Ohio. Mechanical indicator. No. 1,352,855; Sept. 14; v. 278; p. 258.
Way, Wilbur A. (See Way, Clarence J. and W. A.)
Wayne Manufacturing Company. (See Sargent, William H., assignor.)
Weagant, Roy A., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Apparatus for preventing static interference in radiosignaling. No. 1,353,002; Sept. 14; v. 278; p. 287.
Weaver, William C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,353,872; Sept. 28; v. 278; p. 562.
Webb, B., and W. A. Gardner, Pinetops, N. C. Wire-stretcher. No. 1,353,365; Sept. 21; v. 278; p. 417.
Weber, George, Stuart, Nebr. Hydraulic motor. No. 1,354,231; Sept. 28; v. 278; p. 635.
Weber, Jacob L., Chicago, Ill. Knockdown crate or box. No. 1,353,688; Sept. 21; v. 278; p. 483.
Webster & Perks Tool Company, The. (See Mitchell, Raymond C., assignor.)
Wego, Peter C., St. Paul, Minn. Spiral chute. No. 1,353,873; Sept. 28; v. 278; p. 562.
Wego, Peter C., St. Paul, Minn. Bearing for conveyer-rollers. No. 1,353,874; Sept. 28; v. 278; p. 562.
Wego, Peter C., St. Paul, Minn. Gravity-conveyor. No. 1,353,875; Sept. 28; v. 278; p. 563.
Wehrenberg, William H., La Crosse, Wis. Padding. No. 1,352,231; Sept. 7; v. 278; p. 99.
Weichsel, Hans, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Starting apparatus for internal-combustion engines. No. 1,353,876; Sept. 28; v. 278; p. 563.
Weickel, Henry, assignor to Pawling and Harnischfeger Company, Milwaukee, Wis. Hoisting and conveying apparatus. No. 1,351,882; Sept. 7; v. 278; p. 34.
Weightman, W. A., and C. H. Nitsch, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Producing sealed wrapped packages. No. 1,352,232; Sept. 7; v. 278; p. 100.
Weinberg, Isaac H., and C. F. Bisbing, New York, N. Y. Umbrella and parasol. No. 1,352,332; Sept. 7; v. 278; p. 118.
Weinerth, George S., Reading, Pa. Reinforcing mechanism for circular-knitting machines. No. 1,351,883; Sept. 7; v. 278; p. 35.
Weis, John F., assignor of one-half, by mesne assignments, to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Stop-motion. No. 1,352,333; Sept. 7; v. 278; p. 119.
Weiss, Christoph K., Nuremberg, Germany. Roof. No. 1,354,360; Sept. 28; v. 278; p. 661.
Weisenreider, John M., Brooklyn, N. Y. Time-controlled lighting device. No. 1,353,441; Sept. 21; v. 278; p. 432.
Weissman, Joseph, New York, N. Y. Washable sanitary napkin. No. 1,353,196; Sept. 21; v. 278; p. 385.
Weismantel, Joseph W., Newark, N. J. Combination bed attachment. No. 1,353,502; Sept. 21; v. 278; p. 444.
Welcker, Paul H., assignor to Brown & Bigelow, St. Paul, Minn. Collapsible soap-dish. No. 1,353,103; Sept. 14; v. 278; p. 306.

Weldit Company, The. (See Wade, Percy, assignor.)
Welling, William M. (See Rhoades, Philip F., assignor.)
Wells, Albert A., Detroit, Mich. Spark-plug. No. 1,354,361; Sept. 28; v. 278; p. 661.
Wells, Levi P., Gering, Nebr. Combined clamp and wheel-guard for farm-wagons. No. 1,353,940; Sept. 28; v. 278; p. 575.
Wells, William S., South Bethlehem, Pa. Shuttle-tension. No. 1,354,362; Sept. 28; v. 278; p. 662.
Welter, Johannes F., Utrecht, Netherlands. Walking apparatus for the lame. No. 1,354,427; Sept. 28; v. 278; p. 675.
Wendler, Frederick L. (See Dillon, James L., assignor.)
Wener, Nils, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Pumping device. No. 1,352,856; Sept. 14; v. 278; p. 258.
Wentworth, Harry A., assignor to The Government of the United States, Spokane, Wash. Spotter's training device. No. 1,352,773; Sept. 14; v. 278; p. 242.
Wentworth, Pearl J., Fort Thomas, Ky. Making shoes and other similar forms of footwear. No. 1,353,877; Sept. 28; v. 278; p. 563.
Werder, John F., assignor to Zip Manufacturing Company, Denver, Colo. Grinding compound. No. 1,353,197; Sept. 21; v. 278; p. 385.
Werner Film-Protector Manufacturing Company. (See Werner, Paul, assignor.)
Werner, Paul, assignor to Werner Film-Protector Manufacturing Company, St. Louis, Mo. Apparatus for softening motion-picture films. No. 1,352,712; Sept. 14; v. 278; p. 229.
Werner, Paul, assignor to Werner Film-Protector Manufacturing Company, St. Louis, Mo. Apparatus for softening motion-picture films. No. 1,352,713; Sept. 14; v. 278; p. 229.
Werner, Paul, assignor to Werner Film-Protector Manufacturing Company, St. Louis, Mo. Emollient for motion-picture films. No. 1,354,009; Sept. 28; v. 278; p. 589.
Wertman, Milton A., Dayton, assignor to The Biggs-Watterson Co., Cleveland, Ohio. Automatic machine-tool. No. 1,351,884; Sept. 7; v. 278; p. 35.
Wessell, Fernando A., New York, N. Y. Hammer rest-rail for grand-piano actions. No. 1,353,442; Sept. 21; v. 278; p. 432.
West, Hubbard C., Mount Vernon, N. Y. Lubricant-retaining cap for timers. No. 1,351,818; Sept. 7; v. 278; p. 21.
West, William H., Stockton, Calif. Valve-cap. No. 1,353,878; Sept. 28; v. 278; p. 563.
Wester, Emerick, Easton, Pa. Milk-bottle cap. No. 1,352,334; Sept. 7; v. 278; p. 119.
Westergard, Christ, Denbigh, N. D. Spring-mounting for vehicle-bodies. No. 1,354,082; Sept. 28; v. 278; p. 647.
Western Brick Company. (See Butterworth, Frank W., assignor.)
Western Electric Company. (See Booth, William T., assignor.)
Western Electric Company. (See Clausen, Henry P., assignor.)
Western Electric Company. (See Clement, Louis M., assignor.)
Western Electric Company. (See Cummings, George C., assignor.)
Western Electric Company. (See Dyson, Alfred H., assignor.)
Western Electric Company. (See Eaves, Augustus J., assignor.)
Western Electric Company. (See Harrison, Henry C., assignor.)
Western Electric Company. (See Johnson, Lewis H., assignor.)
Western Electric Company. (See Lundell, Alben E., assignor.)
Western Electric Company. (See McQuarrie, James L., assignor.)
Western Electric Company. (See Moran, John F., assignor.)
Western Electric Company. (See Reeves, Frank N.)
Western Electric Company. (See Stoekle, Erwin R., assignor.)
Western Electric Company. (See Weaver, William C., assignor.)
Western Electric Company. (See White, Charles, assignor.)
Western Electric Company, Inc. (See Bell, John H., assignor.)
Western Electric Company Incorporated. (See Keckler, Charles W., assignor.)
Western Electric Company Incorporated. (See Kochendorfer, F. S., and Baldut, assignors.)
Western Gas Construction Company. (See Stone, Thomas W., assignor.)
Western Telegraph Company, The. (See Murray, Donald, assignor.)
Western Union Telegraph Company, The. (See Milnor, Joseph W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bastian, Arthur J., assignor.)
Westinghouse Electric and Manufacturing Company. (See Boddie, Clarence A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Clarke, John A., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric and Manufacturing Company. (See De Camp, Ray E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dennert, Edward C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dickey, Daniel A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ehrhart, Raymond N., assignor.)
Westinghouse Electric and Manufacturing Company. (See Gasda, Adolph A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hall, A. J., and Whittaker, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hall, Arthur J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hayes, Stephen Q., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, R. E., and Moore, assignors.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hodgkins, Charles H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Holy, George H. F., assignor.)
Westinghouse Electric and Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lum, Walter O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Charles F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mills, C. B., and Wilson, assignors.)
Westinghouse Electric and Manufacturing Company. (See Packer, A. H., and Patten, assignors.)
Westinghouse Electric & Manufacturing Company. (See Pukerud, Thomas S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Schaake, William, assignor.)
Westinghouse Electric and Manufacturing Company. (See Schoepf, Theodore H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Smith, Benjamin H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Walter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)
Westinghouse Electric & Manufacturing Company. (See Whittaker, Charles C., assignor.)
Westinghouse Union Battery Company. (See Norris, Paul E., assignor.)
Wetsler, Anna E., Portland, Oreg. Pickling-weight. No. 1,353,104; Sept. 14; v. 278; p. 307.
Wettervik, Axel, Iron River, Mich. Winter road or snow and ice melting machine. No. 1,352,567; Sept. 14; v. 278; p. 200.
Wharton, William, Jr., & Co., Incorporated. (See Stothoff, W. S., and Pallander, assignors.)
Wheatley, Daniel Y., Hythe, England. Balance agricultural implement. No. 1,353,366; Sept. 21; v. 278; p. 417.
Wheeler, Wellington Brazil, El Segundo, Calif. Advertising device. No. 1,353,105; Sept. 14; v. 278; p. 307.
Wheeling Stove & Range Company, The. (See Reppetto, Harvey B., assignor.)
Whelan, Eugene B., Omaha, Nebr. Combined by-pass and relief valve. No. 1,353,296; Sept. 21; v. 278; p. 404.
Whetstone, Frank M., Chicago, Ill., assignor to Milwaukee Corrugating Company, Greenfield, Wis. Expanded-metal machine. No. 1,353,198; Sept. 21; v. 278; p. 385.
Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Sheet-metal shears. No. 1,353,867; Sept. 21; v. 278; p. 418.
Whitcomb, Charles O., Washington, Mich. Railway-tie. No. 1,351,819; Sept. 7; v. 278; p. 21.
White, Charles, Glen Cove, N. Y. Internal-combustion engine. No. 1,351,980; Sept. 7; v. 278; p. 58.
White, Charles, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,352,568; Sept. 14; v. 278; p. 201.
White, Fred E., assignor to Central Oil & Gas Stove Company, Gardner, Mass. Air-distributer for oil-stoves. No. 1,354,083; Sept. 28; v. 278; p. 606.
White Frost Refrigerator Company. (See Boeck, Charles H., assignor.)
White, Henry W., New Orleans, La. Material for building construction. No. 1,353,619; Sept. 21; v. 278; p. 468.
White, Joseph J., Jr., Erie, Pa., assignor of one-half to H. G. Green, Columbus, Ohio. Bituminous pitch and sulfur composition and making same. No. 1,353,003; Sept. 14; v. 278; p. 287.
White, R. H. (See Meredith, W. C., and Willis, assignors.)

White, S. S., Dental Manufacturing Company, The. (See Heck, George D., assignor.)
White, William E., Manor, Tex. Gate. No. 1,352,233; Sept. 7; v. 278; p. 100.
White, William E., Minneapolis, Minn. Spacing-clip. No. 1,352,642; Sept. 14; v. 278; p. 215.
White, William W., New York, N. Y. Tally-card. No. 1,354,151; Sept. 28; v. 278; p. 619.
Whitehead, Percy K., Bury, and J. Rothwell, Prestwich, assignors to Bradford Dyers' Association Limited, Bradford, England. Apparatus for use in connection with the finishing or treating of woven fabrics. No. 1,353,870; Sept. 28; v. 278; p. 563.
Whiteley, George H., Jr., York, Pa., assignor to The Dentists' Supply Company. Artificial tooth. No. 1,353,199; Sept. 21; v. 278; p. 385.
Whitt, Hugh, Louisville, Ky. Transmission lock. No. 1,352,489; Sept. 14; v. 278; p. 184.
Whittaker, Charles C. (See Hall, A. J., and Whittaker.)
Whittaker, Charles C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay device. No. 1,354,152; Sept. 28; v. 278; p. 619.
Whitten, Wilmot W., assignor of one-half to E. Guthrie, Washington, D. C. Wardrobe-trunk opener and carrier. No. 1,352,234; Sept. 7; v. 278; p. 100.
Wickwire Spencer Steel Corporation. (See Knapp, Albert S., assignor.)
Wicoff, Henry A., Decatur, Ill. Safety device for spring-motors. No. 1,353,106; Sept. 14; v. 278; p. 307.
Widenhofer, Gilbert N., Butler, Pa. Combined resilient tire and mounting. No. 1,354,363; Sept. 28; v. 278; p. 662.
Widing, Ivar, assignor to N. M. Porter, Dorchester, Mass. Cement ship construction. No. 1,353,880; Sept. 28; v. 278; p. 563.
Widmayer, Charles O., Syracuse, N. Y. Mouthpiece for wind musical instruments. No. 1,353,297; Sept. 21; v. 278; p. 404.
Wiedenhoeft, Arthur E., Chicago, Ill. Lighting-fixture. No. 1,352,857; Sept. 14; v. 278; p. 259.
Wieland, George, St. Louis, Mo. Saw-guard. No. 1,351,820; Sept. 7; v. 278; p. 21.
Wiener, John A., Rothschild, Wis. Regulator. No. 1,353,298; Sept. 21; v. 278; p. 404.
Wiener, Milton M. (See Benson, M. P., and Wiener.)
Wiggin, Joseph N., East Orange, assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J. Fabric and making same. No. 1,352,560; Sept. 14; v. 278; p. 201.
Wiggins, H. B., Sons Company. (See Wiggin, Joseph N.)
Wildi Carl, Wohlen, assignor to the Firm Argovia A. G., Mellingen, Switzerland. Bobbin for braiding-machines. No. 1,354,084; Sept. 28; v. 278; p. 606.
Wilding, John, Fort Wayne, Ind. Lock for steering-wheels. No. 1,354,153; Sept. 28; v. 278; p. 620.
Wilhelm, Joseph, and C. A. Kaya, McKees Rocks, Pa. Film-reel. No. 1,353,004; Sept. 14; v. 278; p. 287.
Wilkie, William H., Detroit, Mich. Tray for lunch-boxes. No. 1,353,689; Sept. 21; v. 278; p. 483.
Wilkins, George H., Greenfield, Mass. Combined shipping-case and display-rack. No. 1,352,490; Sept. 14; v. 278; p. 185.
Wilkinson Brothers & Company. (See Fuhrmann, Warren, assignor.)
Wilkinson, James. (See Dickinson, E. D., and Wilkinson.)
Wilkinson, John F., Winchendon, Mass. Flying-machine. No. 1,351,821; Sept. 7; v. 278; p. 21.
Willans, George H., Gloucester, England. Combined feed-water heater and steam-superheater for locomotive and other smoke or fire tube boilers. No. 1,353,200; Sept. 21; v. 278; p. 385.
Willard, Theodore A., Cleveland, Ohio. Apparatus for forming storage-battery jars and the like. No. 1,352,160; Sept. 7; v. 278; p. 86.
Willard, Theodore A., Cleveland, Ohio. Forming hard-rubber storage-battery jars. No. 1,352,161; Sept. 7; v. 278; p. 86.
Willett, Leonard, Paducah, Ky. Runner attachment for harrows. No. 1,353,007; Sept. 14; v. 278; p. 288.
Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable third or fourth point support for brake-beams. No. 1,352,570; Sept. 14; v. 278; p. 201.
Williams, Edward, Birmingham, England. Controlling mechanism. No. 1,353,368; Sept. 21; v. 278; p. 418.
Williams, Edward, Birmingham, England. Control mechanism. No. 1,353,369; Sept. 21; v. 278; p. 418.
Williams, Evan O., Parkstone, assignor to Williams Foreign Patents Limited, London, England. Mode of constructing reinforced concrete ships, barges, floating structures, and the like. No. 1,353,107; Sept. 14; v. 278; p. 307.
Williams Foreign Patents. (See Williams, Evan O., assignor.
Williams, Frank E., Alhambra, Calif. Friction band-brake. No. 1,353,370; Sept. 21; v. 278; p. 418.
Williams, James A., Cincinnati, Ohio, assignor to Charles Mullis Manufacturing Company, Greensburg, Ind. Painting objects of art. No. 1,351,885; Sept. 7; v. 278; p. 35.
Williams, John, Clinton, Iowa. Pipe-coupling. No. No. 1,353,005; Sept. 14; v. 278; p. 288.
Williams, John, Chinton, Iowa. Train-pipe coupling. No. 1,353,006; Sept. 14; v. 278; p. 288.
Williams, John A., Aurora, Mo. Scarifier attachment for road-graders. No. 1,352,714; Sept. 14; v. 278; p. 230.
Williams, Lacey Y, deceased, Toledo, Ohio; M. S. Dodd, administrator. Contractile spring device. No. 1,353,881; Sept. 28; v. 278; p. 564.
Williams, Roger, assignor to Nitrogen Products Company, Providence, R. I. Production of substantially pure carbon and the like. No. 1,352,162; Sept. 7; v. 278; p. 86.
Williams, Roy W., Utica, S. D. Cultivator attachment. No. 1,354,364; Sept. 28; v. 278; p. 662.
Williams, Simon F. See Hart, Walter V., assignor.)
Williams, William M., assignor of one-eighth to William Dawson, Reno, Nev. Distributing mechanism for hay-loaders for wagons. No. 1,353,201; Sept. 21; v. 278; p. 386.
Williams, William M., assignor of one-half to W. Dawson, Reno, Nev. Alfalfa-hay loader. No. 1,353,202; Sept. 21; v. 278; p. 386.
Williamson, Arba G., Pittsburgh, Pa., and S. V. Huber, Los Angeles, Calif. Train-control system. No. 1,351,822; Sept. 7; v. 278; p. 22.
Wilson, Charles, Coventry, England. Coupling. No. 1,353,290; Sept. 21; v. 278; p. 404.
Wilson, Charles W., York, Pa. Process and apparatus for making photographic prints. No. 1,353,690; Sept. 21; v. 278; p. 483.
Wilson & Co. (See Blocksom, Berget H., assignor.)
Willis, Paul M., Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y. Self-luminous writing or reading device. No. 1,351,935; Sept. 7; v. 278; p. 45.
Willis, William C. (See Meredith, W. C., and Willis.)
Wilson, Andrew A., Norfolk, Va. Sash-fastener. No. 1,351,936; Sept. 7; v. 278; p. 45.
Wilson, Charles E. (See Mills, C. B., and Wilson.)
Wilson, George W. (See Clare, Peter, assignor.)
Wilson, John A., Elizabeth, assignor to The Duratex Company, Newark, N. J. Coated fabric and producing same. No. 1,352,163; Sept. 7; v. 278; p. 87.
Wilson, Leonard, Salt Lake City, Utah, assignor to General Electric Company. Totalizing power system. No. 1,352,235; Sept. 7; v. 278; p. 100.
Wilson, Ralph L., Bergen, Norway. Resilient wheels for vehicles. No. 1,352,858; Sept. 14; v. 278; p. 259.
Wilson, Robert G., Davis, W. Va. Egg-mixer. No. 1,353,443; Sept. 21; v. 278; p. 432.
Wilson, Walter A., Elkhart, Kans. Windmill. No. 1,352,859; Sept. 14; v. 278; p. 259.
Wily, James H., South Bethlehem, Pa. Gas-cannon. No. 1,352,715; Sept. 14; v. 278; p. 230.
Winchester Repeating Arms Co. (See Brown, Walter T. K., assignor.)
Winchester Repeating Arms Co. (See Scott, Edward A., assignor.)
Winchester, William W., Boston, Mass. Locking device for steering-wheels. No. 1,352,491; Sept. 14; v. 278; p. 185.
Windbichler, Loyd, Nokomis, Ill. Dinner-pail. No. 1,351,823; Sept. 7; v. 278; p. 22.
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,352,492; Sept. 14; v. 278; p. 185.
Winslow, Dion I., Boston, Mass. Page arrangement for books. No. 1,353,371; Sept. 21; v. 278; p. 418.
Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Voltage-regulator for alternating-current generators. No. 1,353,691; Sept. 21; v. 278; p. 483.
Winters, Robert E., Coraopolis, assignor of one-half to A. E. Dean, Pittsburgh, Pa. Speed-change mechanism. No. 1,352,716; Sept. 14; v. 278; p. 230.
Wire Wheel Corporation of America. (See House, Henry A., Jr., assignor.)
Wirebound Patents Company. (See Grumme, Frederick J., assignor.) (Reissue.)
Wirth, Emil, Waukomis, Okla. Fastening-bracket for the mitered ends of timbers or the like. No. 1,352,335; Sept. 7; v. 278; p. 119.
Wise, Basil E., Canton, Ohio. Composition for razor or other strops. No. 1,353,979; Sept. 28; v. 278; p. 583.
Wise, Nathan, Brooklyn, N. Y. Incandescent electric lamp. No. 1,352,860; Sept. 14; v. 278; p. 259.
Wismer, George C., Santa Barbara, Calif. Sound-board. No. 1,353,555; Sept. 21; v. 278; p. 455.
Wójcik, Frank, Holyoke, Mass. Multiple trap. No. 1,353,882; Sept. 28; v. 278; p. 564.
Wolfe, Paul T., and W. H. Bovard, Los Angeles, Calif. Aeroplane. No. 1,353,692; Sept. 21; v. 278; p. 484.
Wolfe, William. (See Mitchell, J. E., Wolfe, and Parks.)
Wolff, Aaron H., New York, N. Y. Gas-toaster. No. 1,353,203; Sept. 21; v. 278; p. 386.
Wolffgram, Ludwig, Erie, Pa. Rolling-mill. No. 1,352,493; Sept. 14; v. 278; p. 185.
Wolhaupter, Benjamin, New Rochelle, N. Y. Adjustable rail-anchor. No. 1,353,204; Sept. 21; v. 278; p. 386.
Wolverine Truck-Trailer Co. (See De Mattia, Constant, assignor.)
Wone, Tom, Montreal, Quebec, Canada. Stove-cabinet. No. 1,353,121; Sept. 14; v. 278; p. 309.
Wood, Charles F., Chicago, Ill. Shelf-bracket. No. 1,354,270; Sept. 28; v. 278; p. 644.
Wood, James R., Indianapolis, Ind. Tire. No. 1,354,449; Sept. 28; v. 278; p. 679.

Wood, Milton E., South Amboy, N. J. Motorcycle-seat. No. 1,353,108; Sept. 14; v. 278; p. 307.
Wood, William P., assignor to Jenckes Spinning Company, Pawtucket, R. I. Winding-machine. No. 1,352,930; Sept. 14; v. 278; p. 273.
Woodbridge, Richard G., Jr., K. K. V. Casey, and C. I. B. Henning, assignors to E. I du Pont de Nemours & Company, Wilmington, Del. Progressively-burning powder and making same. No. 1,354,442; Sept. 28; v. 278; p. 678.
Woodhull, Sereno W., Newport, R. I. Optical cabinet. No. 1,353,372; Sept. 21; v. 278; p. 419.
Woodward, William H., assignor of two-fifths to L. Sweningson and one-fifth to G. M. Potter, Cleveland, Ohio. Rotary internal-combustion engine. No. 1,353,205; Sept. 21; v. 278; p. 386.
Workinger, Earl H., *et al.* (See Hall, Stewart E., assignor.)
Worthington, Warren, Buffalo, N. Y. Making composite steel plates. No. 1,351,824; Sept. 7; v. 278; p. 22.
Worsen, Anton A., Brownsville, Pa. Radiator-stand. No. 1,354,428; Sept. 28; v. 278; p. 675.
Wray, Charles S., New York, N. Y. Belt conveyer. No. 1,353,008; Sept. 14; v. 278; p. 288.
Wright, Daniel M. (See Seaver, H. E., and Bowers, assignors.)
Wright, Francis M., *et al.* (See Nelson, Anton R., assignor.)
Wright, H. A., *et al.* (See Hachmann, Frederick, assignor.)
Wright, John B., and F. O. Lawson, assignors to Wright Safety Air-Brake Company, Greensboro, N. C. Safety railway-brake. No. 1,352,861; Sept. 14; v. 278; p. 259.
Wright, John W., Pittsburgh, Pa. Jointing-tool. No. 1,354,443; Sept. 28; v. 278; p. 678.
Wright Safety Air-Brake Company. (See Wright, J. B., and Lawson, assignors.)
Wright, Walter S., Lompoc, Calif. Dental mandrel for holding stones and sandpaper disks. No. 1,352,395; Sept. 7; v. 278; p. 130.
Wright, Wilson M., C. Teeples, and J. J. Lamb, assignors to New Way Machine Company, Jefferson, Iowa. Means for repairing radiators and the like. No. 1,353,009; Sept. 14; v. 278; p. 288.
Wyatt, De Witt H., assignor to The Wyatt Engineering Company, Columbus, Ohio. Apparatus for forming pipe-joints. No. 1,352,571; Sept. 14; v. 278; p. 201.
Wyatt Engineering Company, The. (See Wyatt, De Witt H., assignor.)
Wyzenbeek, Andrew, Chicago, and E. J. Cady, Oak Park, Ill.; said Wyzenbeek assignor to said Cady. Micrometer-caliper. No. 1,354,010; Sept. 28; v. 278; p. 590.
Xardel, Charles A., Utica, N. Y. Heater. No. 1,353,556; Sept. 21; v. 278; p. 455.
Yahn, Frederick C. M., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Drier. No. 1,353,980; Sept. 28; v. 278; p. 584.
Yanochowski, George A., Chicago, Ill., and H. E. Hershey, Whitewater, Kans., assignors to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,353,300; Sept. 21; v. 278; p. 404.
Yardley, John O., Stockton, Calif. Non-glare lens for headlights. No. 1,352,236; Sept. 7; v. 278; p. 101.
Yates, Hubert, Cheam, England. Anticreep device or anchor for railway-rails. No. 1,353,206; Sept. 21; v. 278; p. 387.
Yanck, Alexander, Kansas City, Mo. Collar-button. No. 1,353,444; Sept. 21; v. 278; p. 432.
Yeager, Matthias S., assignor to Liberty Burner Co., Los Angeles, Calif. Hydrocarbon-burner. No. 1,353,010; Sept. 14; v. 278; p. 289.
Yelm, Charles W., assignor to The Gates Rubber Company, Denver, Colo. Repaired tire. No. 1,352,164; Sept. 7; v. 278; p. 87.
Yingst, Harry M., Harrisburg, Pa. Advertising device. No. 1,352,836; Sept. 7; v. 278; p. 119.
Yorke, John P., Westminster, London, England. Magnetic deflector for electric arcs in lamps, searchlights, and the like. No. 1,353,693; Sept. 21; v. 278; p. 484.
Young, Clifford H., St. Louis, Mo., assignor to The Auto & Motor Truck Axle Company. Steering mechanism for motor-operated vehicles. No. 1,352,572; Sept. 14; v. 278; p. 201.
Young, John. (See Moore, James A., assignor.)
Young, John A., Belair, Md. Nut-lock. No. 1,352,643; Sept. 14; v. 278; p. 215.
Young, Lorin W., New York, N. Y. Portable lamp. No. 1,352,862; Sept. 14; v. 278; p. 260.
Young, William R., Medford, Oreg. Tread-cycle. No. 1,353,011; Sept. 14; v. 278; p. 289.
Zabriskie, Edgar, *et al.* (See Rosentreter, Albert J., assignor.)
Zaenglein, Paul C. (See Page, George E., assignor.)
Zakzewski, John S., Fullerton, Nebr. Folding chair. No. 1,353,694; Sept. 21; v. 278; p. 484.
Zaun, George F., San Bernardino, Calif. Car-door ventilator. No. 1,353,301; Sept. 21; v. 278; p. 405.
Zbinden, Eugen, Bern, Switzerland, assignor to Busch-Sulzer Bros. Diesel Engine Company, St. Louis, Mo. Engine reverse-gear. No. 1,352,717; Sept. 14; v. 278; p. 230.
Zebrowski, Alexander, Stamford, Conn. Shade-bracket. No. 1,353,695; Sept. 21; v. 278; p. 484.
Zeitler, Mary S., and W. S. Lloyd, Washington, D. C. Jewel wrist-safe. No. 1,352,863; Sept. 14; v. 278; p. 260.
Ziegler, Jacob, Coffeyville, Kans. Combination-tool. No. 1,353,445; Sept. 21; v. 278; p. 433.
Zifferer, Lothar R., Lancaster, Pa. Expansion-shield. No. 1,352,494; Sept. 14; v. 278; p. 186.
Zifferer, Lothar R., Lancaster, Pa. Receptacle. No. 1,352,495; Sept. 14; v. 278; p. 186.
Zimmerman, John W., Baltimore, Md. Player-piano. No. 1,352,337; Sept. 7; v. 278; p. 120.
Zinser, Charles P., Washington, Ill. Draft connection for earth-stirring implements. No. 1,353,620; Sept. 21; v. 278; p. 469.
Zip Manufacturing Company. (See Werder, John F., assignor.)
Zipf, Carl F., Johnstown, Pa. Toy steam-shovel. No. 1,351,981; Sept. 7; v. 278; p. 53.
Zisk, Anthony, Baltimore, Md. Cooking utensil. No. 1,354,085; Sept. 28; v. 278; p. 606.
Zimmerman, Thomas, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dynamoelectric machine. No. 1,353,883; Sept. 28; v. 278; p. 564.
Zofsak, John J., Greensburg, Pa. Washing-machine. No. 1,353,302; Sept. 21; v. 278; p. 405.
Zubal, John, Walsen, Colo. Safety-clevis. No. 1,351,825; Sept. 7; v. 278; p. 22.
Zucker, Henry L., East Orange, N. J., assignor to A. P. Munning & Co., New York, N. Y. Buffing and polishing wheel. No. 1,353,207; Sept. 21; v. 278; p. 387.
Zulver, Cornelis. (See Smith, L. E., Zulver, and Thompson.)
Zulver, Cornelis, London, and L. E. Smith, South Shields, England. Furnace-front. No. 1,354,429; Sept. 28; v. 278; p. 675.
Zwicker, Frederick P., assignor of twenty-five per cent. to W. J. Ryan and twenty-five per cent. to A. H. Holaday, San Francisco, Calif. Erasing-shield. No. 1,353,133; Sept. 14; v. 278; p. 312.
Zwicke, Martin, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Garment-protector. No. 1,351,982; Sept. 7; v. 278; p. 53.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Alderfer, John M., Akron, Ohio. Elastic vehicle-tire. No. 56,260; Sept. 14; v. 278; p. 313.
Alterson, Louis, Averne, N. Y. Buckle. No. 56,246; Sept. 7; v. 278; p. 135.
American Can Company. (See Beckman, Francis X., assignor.)
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator. No. 56,262; Sept. 14; v. 278; p. 313.
Bachmayer, Joseph J. (See Saxton, A. H., and Bachmayer.)
Bailey, William J., Cleveland, Ohio. Help-self counter and display-cabinet. No. 56,263; Sept. 14; v. 278; p. 313.
Beckman, Francis X., assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 56,264; Sept. 14; v. 278; p. 314.
Blekre, Edgar O., Sioux City, Iowa. Elastic-tire tread. Nos. 56,265–71; Sept. 14; v. 278; p. 314.
Blickman, Saul, New York, assignor to Sophia Blickman, Brooklyn, N. Y. Bowl. No. 56,272; Sept. 14; v. 278; p. 315.
Blickman, Sophia (See Blickman, Saul, assignor.)
Chance, Albert B., Centralia, Mo. Anchor-rod eye. No. 56,273; Sept. 14; v. 278; p. 315.
Collins Safety Razor Company. (See Johnson, Henry H., assignor.)
Connor, Martha H., assignor to The Tin Decorating Company, Baltimore, Md. Talcum-tin. No. 56,274; Sept. 14; v. 278; p. 315.
Corcoran-Victor Company, The. (See Ryder, Charles D., assignor.)
Curran, Edward T., Detroit, Mich. Guard for radiators of motor-vehicles. No. 56,275; Sept. 14; v. 278; p. 316.
Eisenbrown, George F., Reading, Pa. Tombstone. Nos. 56,276–9; Sept. 14; v. 278; p. 316.
Faber, Eberhard, New York, N. Y. Rubber eraser-head for lead-pencils. No. 56,247; Sept. 7; v. 278; p. 136.
Ferguson, Clinton B., Newtonville, Mass. Combined candelabrum and electric terminal. No. 56,248; Sept. 7; v. 278; p. 136.
Findley, Robert, Manufacturing Co. (See Kostszewski, Stephen, assignor.)

Forbes, Armitage, S. C., and H. R. P., Los Angeles, Calif. Table-bell. No. 56,280; Sept. 14; v. 278; p. 316.
Forbes, Harrye R. P. (See Forbes, Armitage S. C., and H. R. P.)
Frerichs, Frederick A., assignor to Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric floor-lamp. No. 56,249; Sept. 7; v. 278; p. 136.
General Tire and Rubber Company, The. (See Iredell, Robert, assignor.)
Goodrich, B. F., Company, The. (See Pierson, Robert M., assignor.)
Graf, Martin T., Buffalo, N. Y. Sharpener for knives. No. 56,250; Sept. 7; v. 278; p. 136.
Great Western Manufacturing Co. (See Lonn, Edward J., assignor.)
Greene, Frank R., Chicago, Ill. Casing for a vending-machine. No. 56,251; Sept. 7; v. 278; p. 136.
Haber, Abraham F., Brooklyn, N. Y. Key-ring holder. No. 56,281; Sept. 14; v. 278; p. 316.
Horn & Brannen Manufacturing Co. (See Frerichs, Frederick A., assignor.)
Huyler, Couter D., Greenwich, Conn., assignor to Huyler's Inc., New York, N. Y. Jar. No. 56,252; Sept. 7; v. 278; p. 136.
Huyler's. (See Huyler, Coulter D., assignor.)
Huyler's. (See Porter, Adelaide M., assignor.)
Iredell, Robert, assignor to The General Tire and Rubber Company, Akron, Ohio. Tire-casing. No. 56,282; Sept. 14; v. 278; p. 317.
Johnson, Henry H., Oak Park, assignor to Collins Safety Razor Company, Chicago, Ill. Razor. No. 56,283; Sept. 14; v. 278; p. 317.
Jordan, Thomas E., Malden, Mass. Barrel-truck. No. 56,284; Sept. 14; v. 278; p. 317.
Keeton, Forrest M., Detroit, Mich. Vehicle-wheel chock. No. 56,285; Sept. 14; v. 278; p. 317.
Keeton, Forrest M., Detroit, Mich. Vehicle-chock. No. 56,286; Sept. 14; v. 278; p. 317.
Knudson, Torkel, Minneapolis, Minn. Phonograph-cabinet. No. 56,287; Sept. 14; v. 278; p. 317.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 56,253; Sept. 7; v. 278; p. 137.
Lee, William L., Helena, Mont. Toilet-paper holder. No. 56,254; Sept. 7; v. 278; p. 137.
Loeb-Strongson Corp. (See Strongson, Herman L., assignor.)
Lonn, Edward J., assignor to Great Western Manufacturing Co., Laporte, Ind. Bicycle mud-guard. No. 56,288; Sept. 14; v. 278; p. 317.
Lozier, Harry J., Spokane, Wash. Automobile-body. No. 56,289; Sept. 14; v. 278; p. 318.
Lubé, Henry, College Point, N. Y. Tone-arm for phonographs. No. 56,290; Sept. 14; v. 278; p. 318.
McConnell, Emery H., Memphis, Tenn. Talking-machine. Nos. 56,291–8; Sept. 14; v. 278; p. 318.
McLean, John C., Lakewood, assignor to The McLean Tire and Rubber Company, Cleveland, Ohio. Tire-tread. No. 56,299; Sept. 14; v. 278; p. 319.
McLean, John C., assignor to The McLean Tire & Rubber Company, Cleveland, Ohio. Tire. No. 56,300; Sept. 14; v. 278; p. 319.
McLean Tire and Rubber Company, The. (See McLean, John C., assignor.)
Milwaukee Ice Machine Company. (See Olsen, Edwin, assignor.)
Moore, David C., Cleveland, Ohio. Radiator-inclosure. No. 56,255; Sept. 7; v. 278; p. 137.
National Bundle Tyer Company. (See Saxton, A. H., and Bachmayer, assignors.)
Nicholson, Harry R., assignor to The Ver-Vac Company, Baltimore, Md. Bottle. No. 56,301; Sept. 14; v. 278; p. 319.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Olsen, Edwin, assignor, by mesne assignments, to Milwaukee Ice Machine Company, Milwaukee, Wis. Condenser and motor and compressor base. No. 56,302; Sept. 14; v. 278; p. 319.
O'Reilly, Joseph F., Oakland, Calif. Bolt. Nos. 56,303–4; Sept. 14; v. 278; p. 320.
Pearson, Carl J. and S. L. M., Chicago, Ill. Phonograph-casing. No. 56,305; Sept. 14; v. 278; p. 320.
Pearson, Sigrid L. M. (See Pearson, Carl J. and S. L. M.)
Phillips, Erwin B., Stratford, Conn. Box. No. 56,306; Sept. 14; v. 278; p. 320.
Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic tire. No. 56,307; Sept. 14; v. 278; p. 320.
Porter, Adelaide M., Greenwich, assignor to Huyler's Inc., New York, N. Y. Confectionery bouquet. No. 56,308; Sept. 14; v. 278; p. 321.
Rees, Frank W., assignor to Sees-All Manufacturing Company, Seattle, Wash. Rear-sight mirror for motor-vehicles. No. 56,309; Sept. 14; v. 278; p. 321.
Ryder, Charles D., Covington, Ky., assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Rim for a vehicle-lamp or similar article. Nos. 56,256–8; Sept. 7; v. 278; pp. 137–8.
Saxton, A. H., and J. J. Bachmayer, assignors to National Bundle Tyer Company, Blissfield, Mich. Bundle-tier-machine frame. No. 56,310; Sept. 14; v. 278; p. 321.
Sees-All Manufacturing Company. (See Rees, Frank W., assignor.)
Senger, Arthur, Milwaukee, Wis. Automobile-lens. No. 56,259; Sept. 7; v. 278; p. 138.
Sonora, Inc. (See Wolff, Joseph.)
Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
Strongson, Herman L., Brooklyn, N. Y., assignor to Loeb-Strongson Corp., New York, N. Y. Pouring-spout for cans. No. 56,311; Sept. 14; v. 278; p. 321.
Thomson, Ralph K., Sioux Falls, S. D. Automobile side curtain. Nos. 56,312–13; Sept. 14; v. 278; p. 321.
Tin Decorating Company, The. (See Connor, Martha H., assignor.)
Ver-Vac Company, The. (See Nickolson, Harry R., assignor.)
Viggiano, Peter, Shinnston, W. Va. Jewelry-holder. No. 56,314; Sept. 14; v. 278; p. 322.
Walker Brothers Company. (See Walker, Willard R., assignor.)
Walker, Willard R., assignor to Walker Brothers Company, Syracuse, N. Y. Culinary fixture. No. 56,315; Sept. 14; v. 278; p. 322.
Wolff, Joseph, assignor to Sonora Phonograph Corporation, Brooklyn, N. Y. Tone-arm for talking-machines. No. 56,316; Sept. 14; v. 278; p. 322.
Wolff, Joseph, assignor to Sonora, Inc., Brooklyn, N. Y. Phonograph-cabinet. Nos. 56,317–29; Sept. 14; v. 278; p. 322.
Wright, Joseph F., Cincinnati, Ohio. Handbag or similar article. No. 56,261; Sept. 14; v. 278; p. 313.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. O. Chemical Co., Ocilla, Ga. Insecticide. No. 134,611; Sept. 14; v. 278; p. 354.
Accounting Machine Company, New York, N. Y. Memorandum-paper holders. No. 134,869; Sept. 21; v. 278; p. 529.
Acme Ventilator Corporation, Lynn, Mass. Ventilators for exterior use on houses and buildings. No. 134,870; Sept. 21; v. 278; p. 529.
Acorn Battery Company, Chicago, Ill. Electric batteries. No. 134,871; Sept. 21; v. 278; p. 529.
Adjustable Sales Corporation, The, Rochester, N. Y. Children's velocipedes. No. 134,872; Sept. 21; v. 278; p. 529.
Adler, Morris Company, The, Quincy, Ill. Automobiles. No. 134,873; Sept. 21; v. 278; p. 529.
Aldol Medicine Co., New York, N. Y. Liniment for treatment of rheumatism, &c. No. 134,874; Sept. 21; v. 278; p. 529.
Alexander & Irwin Co. Inc. (See Alexander & Irwin Co., assignor.)
Alexander & Irwin Co., Philadelphia, Pa., assignor to Alexander & Irwin Co. Incorporated, New York, N. Y. Hosiery. No. 134,875; Sept. 21; v. 278; p. 529.
All-American Truck Company, Chicago, Ill. Motor-trucks. No. 134,564; Sept. 14; v. 278; p. 353.
Allen Mica Co., New York, N. Y. Phonograph-diaphragms. No. 135,189; Sept. 28; v. 278; p. 701.
Allen, Rena, Daytona, Fla. Medicine for ground-itch on children and sorehead on chickens. No. 134,563; Sept. 14; v. 278; p. 353.
Allied Machinery Company of America, New York, N. Y. Wood, fiber, and canvas hand-buckets and bins. No. 134,876; Sept. 21; v. 278; p. 529.
Altman, B. & Co., New York, N. Y. Soap. No. 134,565; Sept. 14; v. 278; p. 353.
American Abrasive Company, Westfield, Mass. Corundum in bulk. No. 134,471; Sept. 7; v. 278; p. 159.
American Candy Manufacturing Co., Selma, Ala. Candy. No. 134,472; Sept. 7; v. 278; p. 159.
American Carpenter and Builder Co., Chicago, Ill. Monthly magazine. No. 134,473; Sept. 7; v. 278; p. 159.
American Hand Rubber Company, Hempstead and New York, N. Y. Hard-rubber pipe-bits, and cigar and cigarette-holders. No. 134,877 Sept. 21; v. 278; p. 529.
American Ink Company, Seattle, Wash. Writing-inks. No. 134,566; Sept. 14; v. 278; p. 353.
American Italian Trading Company, McDonnell, Truda & Berlingieri, New York, N. Y. Boots and shoes of leather, leather and canvas, canvas with rubber soles, and rubbers. No. 134,562; Sept. 7; v. 278; p. 161.
American La France Fire Engine Co., Inc., Elmira, N. Y. Respirators, respirator masks and hoods, emergency-hoods, &c. No. 134,567; Sept. 14; v. 278; p. 353.
American Laboratories Incorporated, Richmond, Va. Cough-syrup preparation. No. 134,878; Sept. 21; v. 278; p. 529.
American Oil Company, The, Providence, R. I. Oil used in the treatment of woolen fabrics. No. 134,879; Sept. 21; v. 278; p. 529.

American Safetee Soap Corporation (now by change of name Safetee Soap Corporation), Brooklyn, N. Y. Soap, shaving sticks, cream, and powder. No. 134,880; Sept. 21; v. 278; p. 529.

American-Swiss Watch Co., Inc., Peekskill, N. Y. Watches, watch movements, watchcases, and parts thereof. No. 134,568; Sept. 14; v. 278; p. 353.

American Thermophone Company, Boston, Mass. Telephones and parts thereof. No. 134,881; Sept. 21; v. 278; p. 529.

American Writing Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 134,882; Sept. 21; v. 278; p. 529.

American Writing Paper Company, Holyoke, Mass. Writing-paper and printing-paper. No. 134,883; Sept. 21; v. 278; p. 529.

Ames-Bonner Company, The, Toledo, Ohio. Hand, wall, and stand mirrors. No. 134,569; Sept. 14; v. 278; p. 353.

Ames-Bonner Company, The, Toledo, Ohio. Hair, tooth, and clothes brushes. No. 135,190; Sept. 28; v. 278; p. 701.

Andersen-Meyer & Company, Ltd., New York, N. Y. Bristles and human hair. No. 134,570; Sept. 14; v. 278; p. 353.

Andersen, Meyer & Co. Limited, New York, N. Y. Toothbrushes. No. 135,191; Sept. 28; v. 278; p. 701.

Anderson, Alfred W., St. Paul, Minn. Children's sleds and wheeled coasters. No. 135,192; Sept. 28; v. 278; p. 701.

Anderson, Mari, Preston, Wash. Salve for external application for skin diseases. No. 134,884; Sept. 21; v. 278; p. 529.

Anglo-American Pharmaceutical Corporation, New York, N. Y. Antiseptic powder. No. 134,856; Sept. 14; v. 278; p. 363.

Ansbacher, A. B., & Company, New York, N. Y. Dry paints, water paste paints, and paint and varnish pigments. Nos. 134,571–2; Sept. 14; v. 278; p. 356.

Anti-Hydro Waterproofing Company, Newark, N. J. Liquid waterproofing and damp-proofing and liquid hardener for cement and cement mixtures. No. 135,193; Sept. 28; v. 278; p. 701.

Antoine, Arthur, New York, N. Y. Hair-tonic. No. 134,885; Sept. 21; v. 278; p. 529.

Apollo Magneto Corporation, Dover, Del., and Brooklyn, N. Y. Ignition-magnetos and parts thereof and electrical condensers. No. 134,573; Sept. 14; v. 278; p. 353.

Arc-O'-Manufacturing Co., Inc., Chicago, Ill. Spark-plugs. Nos. 134,886–7; Sept. 21; v. 278; p. 529.

Armleder, O., & Co., The, Cincinnati, Ohio. Automobile-trucks, wagons, carts, drays, and vehicles. No. 134,574; Sept. 14; v. 278; p. 353.

Armour & Company, Chicago, Ill. Musical-instrument strings. Nos. 134,575–8; Sept. 14; v. 278; p. 353.

Arrow Brand Hemstitching & Tucking Co., The, New York, N. Y. Ladies' and misses' waists for outer wear. No. 134,579; Sept. 14; v. 278; p. 353.

Atlanta Barbers' Supply Co., The, Atlanta, Ga. Hair-tonic and dandruff-preventive. No. 134,888; Sept. 21; v. 278; p. 529.

Atlantic Remedies Co., The, New York, N. Y. Medicines for stomach, bowel, liver, &c., and for the blood. No. 134,580; Sept. 14; v. 278; p. 353.

Aubrey-Becker Sales Company, San Francisco, Calif. Cough candy, drops, and lozenges. No. 134,581; Sept. 14; v. 278; p. 353.

Auburn Brush Company, Auburn, Me. Dustpan-brushes, brooms, floor-sweepers, and household brushes. No. 134,474; Sept. 7; v. 278; p. 159.

Automotive Supply Company, Dallas, Tex. Gum-shellac. No. 135,194; Sept. 28; v. 278; p. 701.

Babies Dispensary & Hospital of Cleveland, The, Cleveland, Ohio. Prepared milk food used in the feeding of infants. No. 135,195; Sept. 28; v. 278; p. 701.

Bacharach, S., and Company, Philadelphia, Pa. Men's and young men's suits and overcoats. No. 134,582; Sept. 14; v. 278; p. 353.

Badenoch, J. J. Co., Chicago, Ill. Stock and poultry feeds. No. 135,196; Sept. 28; v. 278; p. 701.

Baker R. & L. Company, The, Cleveland, Ohio. Automobiles. No. 134,889; Sept. 21; v. 278; p. 529.

Baker R. & L. Company, The, Cleveland, Ohio. Automobiles—namely, electric passenger-vehicles and trucks. No. 135,174; Sept. 21; v. 278; p. 539.

Bake-Rite Oven Mfg. Company, Reno, Nev., and San Francisco, Calif. Sales-counters, display-racks, kitchen-cabinets, chairs, stools, &c. No. 134,583; Sept. 14; v. 278; p. 353.

Baker Wheel & Rim Company, Chicago, Ill. Motor-vehicle wheels. No. 135,197; Sept. 28; v. 278; p. 701.

Baldwin Company, The, Cincinnati, Ohio. Pianos, player-pianos, and piano-players. No. 134,584; Sept. 14; v. 278; p. 353.

Balme, Jean B. C., New York, N. Y. Hair-coloring. No. 134,475; Sept. 7; v. 278; p. 159.

Bard, W. E., Sedalia, Mo. Medicine for the treatment of colds, coughs, and other throat and lung diseases. No. 134,476; Sept. 7; v. 278; p. 159.

Bartholomew, Roy L., Minneapolis, Minn. Tire-patch. No. 134,477; Sept. 7; v. 278; p. 159.

Barton, Ernest L., Chester, S. C. Dress-shirts, negligée shirts and soft collars. No. 134,585; Sept. 14; v. 278; p. 353.

Bates, A. J., & Company, New York, N. Y. Leather. No. 134,586; Sept. 14; v. 278; p. 356.

Bauer & Black, Chicago, Ill. Medicated plasters. No. 134,890; Sept. 21; v. 278; p. 529.

Baugats, Frédéric G., Paris, France. Corsets and belts worn as substitutes for corsets. No. 134,587; Sept. 14; v. 278; p. 353.

Bauman, Hyman, & Co., New York, N. Y. Handkerchiefs. No. 134,561; Sept. 7; v. 278; p. 161.

Bausher, Solon D., Reading, Pa. Knit underwear. No. 134,588; Sept. 14; v. 278; p. 353.

Bay, H. C., Company, Chicago, Ill., and Bluffton, Ind. Pianos and piano-players. Nos. 134,589–91; Sept. 14; v. 278; pp. 353–4.

Bayer Company, Inc., The, New York, N. Y. Analgesic and antipyretic. Nos. 134,891–2; Sept. 21; v. 278; p. 529.

Beach, L. E., Baltimore, Md. Cathartic medicine. No. 134,893; Sept. 21; v. 278; p. 529.

Beacon Phonograph Company, Boston, Mass. Phonographs, records and needles. No. 134,592; Sept. 14; v. 278; p. 354.

Beaver Refining Company, Pittsburgh, Pa. Gasolene, benzin, naphtha, fuel-oil, &c. No. 134,593; Sept. 14; v. 278; p. 354.

Bell Manufacturing Company, Winder, Ga. Overalls, overall shirts, jackets, and pants. No. 135,198; Sept. 28; v. 278; p. 701.

Belmont Motors Corporation, Harrisburg, Pa. Automobiles and automobile-trucks. No. 135,367; Sept. 28; v. 278; p. 707.

Bergfeldt, George, & Co., New York, N. Y. Toy building-blocks. No. 134,599; Sept. 14; v. 278; p. 354.

"Bestov" Manufacturing Co., Seattle, Wash. Electrical goods. No. 134,594; Sept. 14; v. 278; p. 354.

Betz Bros., Inc., New York, N. Y. Toilet stalls and doors and shower-bath partitions. No. 134,857; Sept. 14; v. 278; p. 363.

Bifex Products Company, Waukegan, Ill. Automobile-bumpers and attaching-brackets. No. 134,595; Sept. 14; v. 278; p. 354.

Blahnik, V. L., & Sons, Chicago, Ill. Internal remedy for affections of the lungs and throat, colds, coughs, &c. No. 134,478; Sept. 7; v. 278; p. 159.

Blazer, Henry C., Kansas City, Mo. Leather, fabric, and combination shoes. No. 134,643; Sept. 14; v. 278; p. 355.

Block, Louis A., New Orleans, La. Polishing and cleaning liquid. No. 134,596; Sept. 14; v. 278; p. 354.

Block, Monroe, & Co., Providence, R. I. Pearls. No. 134,597; Sept. 14; v. 278; p. 354.

Bloom, William, & Co., Inc., New York, N. Y. Clothing. No. 134,598; Sept. 14; v. 278; p. 354.

Blual Chemical Co., New York, N. Y. Laundry bluing in capsule form. No. 134,894; Sept. 21; v. 278; p. 529.

Bolt, Cadimus L., Ware Shoals, S. C. Medicinal compound for a liver-regulator and general tonic. No. 134,479; Sept. 7; v. 278; p. 159.

Boorum & Pease Co., New York, N. Y. Blank books, pads, and tablets. No. 134,895; Sept. 21; v. 278; p. 529.

Borgfeldt, George, & Co., New York, N. Y. Kimonos. No. 134,600; Sept. 14; v. 278; p 354.

Borgfeldt, George, & Co., New York, N. Y. Soap. No. 135,199; Sept. 28; v. 278; p. 701.

Brame Drug Company, Inc., North Wilkesboro, N. C. Salve for influenza, summer-colds, catarrh, &c. No. 135,200; Sept. 28; v. 278; p. 701.

Brandes, Diedrich H., New York, N. Y. Paints and varnishes. No. 134,601; Sept. 14; v. 278; p. 354.

Brewer, Bert B., New York, N. Y. Women's hats. No. 134,896; Sept. 21; v. 278; p. 529.

Briggs, Andrew G., Richmond, Va. Waxy preparation for polishing automobiles, furniture, and stained and hardwood floors. No. 134,602; Sept. 14; v. 278; p. 354.

Brill, J. G., Company, The, Philadelphia, Pa. Cars and car-trucks. No. 135,201; Sept. 28; v. 278; p. 701.

British-American Tobacco Company Limited, London, England. Cigarettes. No. 134,603; Sept. 14; v. 278; p. 354.

Britton, Coozie, Higginsville, Mo. Sets of cards for playing games. No. 135,202; Sept. 28; v. 278; p. 701.

Brooklyn Shield & Rubber Company, Brooklyn, N. Y. Aprons. No. 134,604; Sept. 14; v. 278; p. 354.

Brown, E., & Son (Blacking & Boot Polish Manufacturers) Limited, London, England. Polishes for leather and enameled goods. No. 134,897; Sept. 21; v. 278; p. 530.

Brown, Paul R., Yonkers, N. Y. Babbitt metal and anti-friction metals. No. 135,203; Sept. 28; v. 278; p. 701.

Brownstein-Louis Company, Los Angeles, Calif. Monthly magazine. No. 135,204; Sept. 28; v. 278; p. 701.

Buffalo Wall Board Company, Inc., Buffalo, N. Y. Wall-board and building-paper. No. 135,205; Sept. 28; v. 278; p. 701.

Burgess Battery Company, Madison, Wis. Electric batteries. No. 134,605; Sept. 14; v. 278; p. 354.

Burt, John U., Inc., New York, N. Y. Umbrellas. No. 135,206; Sept. 28; v. 278; p. 701.

Bussmann Manufacturing Company, St. Louis, Mo. Electric fuses and cut-outs. No. 135,207; Sept. 28; v. 278; p. 701.

Calbreath, Charles E., St. Louis, Mo. Metal-polish. No. 134,898; Sept. 21; v. 278; p. 530.

California Soda Products Co., San Francisco, Calif. Preparation used for softening water. No. 134,606; Sept. 14; v. 278; p. 354.

Canterbury Candy Makers, Seattle, Wash. Candy, fresh fruits, and nuts in their natural state. No. 135,208; Sept. 28; v. 278; p. 701.

Carnation Milk Products Company, Portland, Me., and Seattle, Wash. Milk-chocolate. No. 135,209; Sept. 28; v. 278; p. 701.

Carnrick, G. W., Co., New York, N. Y. Medicinal tablet for the treatment of anemia and chlorosis. No. 134,899; Sept. 21; v. 278; p. 530.

Carpenter-Morton Company, Boston, Mass. Prepared roofing. No. 134,480; Sept. 7; v. 278; p. 159.

Carter Annie L., New York, N. Y. Chemical compound for the treatment of the hair and scalp. No. 134,481; Sept. 7; v. 278; p. 159.

Catholic News Publishing Company, The, New York, N. Y. Weekly newspaper. No. 134,607; Sept. 14; v. 278; p. 354.

Cellucotton Products Company, The, Neenah, Wis. Sanitary napkins. No. 134,900; Sept. 21; v. 278; p. 530.

Central Glass Works, Wheeling, W. Va. Glassware. No. 134,608; Sept. 14; v. 278; p. 354.

Central Ohio Paper Co., The, Columbus, Ohio. Mailing-envelops, papeteries, and writing-tablets. No. 134,901; Sept. 21; v. 278; p. 530.

Chalmers Pump & Manufacturing Company, Lima, Ohio. Steam-pumps, pumping machinery, jet and surface condensers. No. 135,176; Sept. 21; v. 278; p. 539.

Chamberlain-Haber Chemical Co., The, Cleveland, Ohio. Radiator compound for internal-combustion engines. No. 134,482; Sept. 7; v. 278; p. 159.

Chapa, A. C., San Antonio, Tex. Salve and a liniment. No. 134,609; Sept. 14; v. 278; p. 354.

Chaplin, W. H., & Co., Limited, London, England. Distilled alcoholic liquor. No. 134,483; Sept. 7; v. 278; p. 159.

Chaplin, W. H., & Co., Limited, London, England. Sherry. No. 134,484; Sept. 7; v. 278; p. 159.

Chappell, Alexander W., Red Bank, N. J. General tonic for poultry. No. 134,903; Sept. 21; v. 278; p. 530.

Charest, Joseph C. R., Detroit, Mich. Reconstruction-tonic. No. 134,902; Sept. 21; v. 278; p. 530.

Charleston Oil Company, Charleston, S. C. Lubricating-oil. No. 134,610; Sept. 14; v. 278; p. 354.

Chatillon, Mouly, Roussel & Co., Lyon, France. Piece goods of silk, wool, linen, &c. No. 134,904; Sept. 21; v. 278; p. 530.

Chelsea Engineering Sales Corporation, New York, N. Y. Abrasive, detergent, and polishing materials. No. 134,905; Sept. 21; v. 278; p. 530.

Chemical Company of America, The, New York, N. Y. Chemical compound for waterproofing textile fabrics. No. 134,906; Sept. 21; v. 278; p. 530.

Chemical Equipment Company, Chicago, Ill. Machinery. No. 135,216; Sept. 28; v. 278; p. 701.

Chicago Hardware Foundry Company, North Chicago, Ill. Lunch-room equipments, Industrial. No. 134,612; Sept. 14; v. 278; p. 354.

China, Japan & South America Trading Co. Ltd., New York, N. Y. Cotton piece goods. No. 134,907; Sept. 21; v. 278; p. 530.

Chocolate Trumes Co., Portland, Oreg. Chocolate candy. No. 135,177; Sept. 21; v. 278; p. 539.

Christoforides, John, London, England. Smoking and chewing tobacco, cigars, and cigarettes. No. 134,613; Sept. 14; v. 278; p. 354.

Church, Clifford C., Boston, Mass. Toy vehicles. No. 134,908; Sept. 21; v. 278; p. 530.

Chute & Butler Co., Peru, Ind. Pianos. No. 135,210; Sept. 28; v. 278; p. 701.

Citrus Soap Company, San Diego, Calif. Washing-powder. No. 134,909; Sept. 21; v. 278; p. 530.

Citrus Soap Company, San Diego, Calif. Washing-powder. Nos. 135,217–19; Sept. 28; v. 278; pp. 701–2.

Clark, Sawyer D., Boulder, Colo. Salve or ointment for catarrh, eczema, &c. No. 134,485; Sept. 7; v. 278; p. 159.

Clarke, H., & Sons, Inc., Baltimore, Md. Soap. No. 134,910; Sept. 21; v. 278; p. 530.

Cleveland Dental Manufacturing Company, The, Cleveland, Ohio. Dental pliers, forceps, and rongeurs. No. 134,614; Sept. 14; v. 278; p. 354.

Cleveland Ignition Company, The, Cleveland, Ohio. Ignition and electric-lighting systems and magnetos for automobiles and repair parts therefor. No. 134,911; Sept. 21; v. 278; p. 530.

Cleveland Tractor Company, Euclid, Ohio. Tractors and parts thereof. No. 135,175; Sept. 21; v. 278; p. 539.

Clinton, Charles D., Co., Kingston, N. Y. Lotion for chapped hands, sunburn, salt-rheum, and chafing. No. 135,211; Sept. 28; v. 278; p. 701.

Clode, E. J., New York, N. Y. Printed books published in series. No. 134,615; Sept. 14; v. 278; p. 354.

Closgard Wardrobe Company, Washington, D. C. Folding wardrobes. No. 134,616; Sept. 14; v. 278; p. 354.

Clox-Lite Mfg. Company, Inc., Newark, N. J. Automatic circuit-controllers. No. 134,912; Sept. 21; v. 278; p. 530.

Cohen & Ehrenberg, New York, N. Y. Light-weight all-wool worsted in the piece. No. 135,220; Sept. 28; v. 278; p. 702.

Cohen, Philip, New York, N. Y. Sanitary garbage-cans No. 134,913; Sept. 21; v. 278; p. 530.

Cohn, Goldwater Company, Los Angeles, Calif. Men's and boys' athletic underwear. No. 134,617; Sept. 14; v. 278; p. 354.

Collapeule Company, Inc., The, New York, N. Y. Medicament for the treatment of malignant blood diseases. Nos. 134,914–5; Sept. 21; v. 278; p. 530.

Colonial Preserve Company, Philadelphia, Pa. Canned fruits. No. 134,486; Sept. 7; v. 278; p. 159.

Columbia Graphophone Company, New York, N. Y. Monthly magazine publications. No. 134,618; Sept. 14; v. 278; p. 354.

Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Talking-machine records. No. 135,212; Sept. 28; v. 278; p. 701.

Columbia Refining Co., New York, N. Y. Lubricating oils and greases. No. 134,916; Sept. 21; v. 278; p. 530.

Commercial Shirt Company, New York, N. Y. Cotton and silk piece goods. No. 134,917; Sept. 21; v. 278; p. 530.

Congoleum Company, The. Prepared floor-coverings of the oiled-cloth type. No. 134,918; Sept. 21; v. 278; p. 530.

Conn, C. G., Ltd., Elkhart, Ind. Wind musical instruments of the bugle and trumpet type. No. 134,619; Sept. 14; v. 278; p. 354.

Consolidated Companies, Inc., Plaquemine, Morgan City, St. Martinville, New Roads, and White Castle, La. Canned corn, tomatoes, peas, canned oysters, shrimp, and syrup. No. 134,487; Sept. 7; v. 278; p. 159.

Conway, C. C. and E. E., and T. P. Brown, trustees, Boston, Mass. Pianos. Nos. 135,213–15; Sept. 28; v. 278; p. 701.

Conway, Carle C., and Earle E., and Theodore P. Brown, Boston, Mass. Pianos. Nos. 134,919–23; Sept. 21; v. 278; p. 530.

Cooper Underwear Company, Kenosha, Wis. Hosiery. No. 134,924; Sept. 21; v. 278; p. 530.

Cope-Walton Co. Inc., The, New York, N. Y. Hand-soap. No. 134,620; Sept. 14; v. 278; p. 354.

Crane, Clarence A., Cleveland, Ohio. Non-alcoholic maltless cola beverage. No. 134,488; Sept. 7; v. 278; p. 159.

Crane, Clarence A., Cleveland, Ohio. Candy. No. 134,490; Sept. 7; v. 278; p. 159.

Crane, John, Maywood, Ill. Packing. No. 134,489; Sept. 7; v. 278; p. 159.

Crawford McGregor & Canby Company, The, Dayton, Ohio. Shoe-lasts. No. 134,621; Sept. 14; v. 278; p. 354.

Cunningham, Mrs. J. C., East Liverpool, Ohio. Ointment for treatment of piles. No. 134,925; Sept. 21; v. 278; p. 530.

D. D. D. Company, Chicago, Ill. Liquid for treatment of eye trouble. No. 134,926; Sept. 21; v. 278; p. 530.

Dairy Products Company, The, Dayton, Ohio. Non-alcoholic non-cereal maltless beverage. No. 134,491; Sept. 7; v. 278; p. 159.

Dallas Saturday Night Company, The, Dallas, Tex. Newspapers. No. 134,622; Sept. 14; v. 278; p. 354.

Davidson Brothers, Chula Vista, Calif. Organic chemicals. No. 135,221; Sept. 28; v. 278; p. 702.

Deaderick, Sallie B., Ford City, Pa. Remedy for falling hair, dandruff, and scalp diseases. No. 134,492; Sept. 7; v. 278; p. 159.

Debow & Co., Newark, N. J. Eggs. No. 135,222; Sept. 28; v. 278; p. 702.

De Burgos Luque, Juan, Aguilar de la Frontaza, Spain. Wines. No. 135,005; Sept. 21; v. 278; p. 533.

Deco Co., The, New York, N. Y. Leather goods. No. 134,623; Sept. 14; v. 278; p. 354.

Deco Co., The, New York, N. Y. Jewelry. No. 134,624; Sept. 14; v. 278; p. 354.

De Nobili Cigar Co., Inc., Long Island City and New York, N. Y. Cigars. No. 134,625; Sept. 14; v. 278; p. 355.

De Nordiske Fabriker, De-No-Fa, Aktieselskap, Christiania, Norway. Refined and unrefined fats used in the manufacture of ointment. No. 134,626; Sept. 14; v. 278; p. 355.

Dental Products Company, Chicago, Ill. Anæsthetic tablets. No. 134,927; Sept. 21; v. 278; p. 530.

Dentamina Trading Co., The, New York, N. Y. Toothache remedy. No. 134,499; Sept. 7; v. 278; p. 160.

Dentocide Chemical Co., The, Baltimore, Md. Tooth-paste. No. 134,627; Sept. 14; v. 278; p. 355.

De Palma, Frank, Brooklyn, N. Y. Shaving-cream. No. 134,628; Sept. 14; v. 278; p. 355.

Dewey & Almy Chemical Company, Cambridge, Mass. Adhesives. No. 135,366; Sept. 28; v. 278; p. 706.

Diamond Shoe Co., New York, N. Y. Men's and women's boots, shoes, and slippers. No. 135,223; Sept. 28; v. 278; p. 702.

Dibble, Louis G., Shortsville, N. Y. Bassinettes. No. 134,629; Sept. 14; v. 278; p. 355.

Dick, W. B., & Company, Inc., New York, N. Y. Lubricating oils and greases. No. 134,630; Sept. 14; v. 278; p. 355.

Dierke, Charles, Portland, Oreg. Toothbrushes. No. 134,493; Sept. 7; v. 278; p. 159.

Dillow, Guy G., St. Louis, Mo. Laxative tablets. No. 134,631; Sept. 14; v. 278; p. 355.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Rubber erasers. Nos. 134,928–9; Sept. 21; v. 278; p. 530.

Dobrickas, Apollinaras, Camp Merritt, N. J. Liquid blood-purifying preparation. No. 135,224; Sept. 28; v. 278; p. 702.

Doanmeyer, Gardner Co., Peoria, Ill. Mixed feeds for horses, cattle, hogs, &c. No. 135,225; Sept. 28; v. 278; p. 702.

Donnelly, W. J., Company, The, Detroit, Mich. Waterproof automobile textile material, &c. No. 134,632; Sept. 14; v. 278; p. 355.

Dorothy Dodd Shoe Company, Boston, Mass. Footwear. No. 135,368; Sept. 28; v. 278; p. 707.

Douglas Paint Oil Co., Chicago, Ill. Linseed-oil substitute. No. 134,633; Sept. 14; v. 278; p. 355.

Drug Products Co., Inc., New York, N. Y. Medicinal powders, capsules, &c. No. 134,494; Sept. 7; v. 278; p. 159.

Druggists Concentrates Co., Pittsburgh, Pa. Toilet preparations. No. 134,635; Sept. 14; v. 278; p. 355.

Dunham Company, The, Berea, Ohio. Soil-tilling machines. No. 134,930; Sept. 20; v. 278; p. 531.

Dunham, James H. & Co., New York, N. Y. Velvet piece goods. No. 135,226; Sept. 28; v. 278; p. 702.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 134,931–5; Sept. 21; v. 278; p. 531.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 135,227–32; Sept. 28; v. 278; p. 702.

Economy Manufacturing Company, New York, N. Y. Ladies' dresses, skirts, coats, and suits. No. 135,178; Sept. 21; v. 278; p. 539.

Eingold, Harold B., Worcester, Mass. Products—namely, butter. No. 135,233; Sept. 28; v. 278; p. 702.

Elberfeld Chemical & Mfg. Co., Sandwich, Mass. Ammonia, bluing, bleaching preparation, and disinfectant. No. 134,936; Sept. 21; v. 278; p. 531.

Elgart Specialty Clothes Co., New York, N. Y. Boys' corduroy, wash, linen, woolen, and worsted suits and boys' knickerbockers. No. 135,234; Sept. 28; v. 278; p. 702.

Eli Lilly and Company, The, Indianapolis, Ind. Soluble tablets for extemporaneous preparations of solutions for antiseptic uses. No. 134,495; Sept. 7; v. 278; p. 159.

Eloesser-Heynemann Co., San Francisco, Calif. Wearing-apparel—namely, children's play-suits. No. 134,937; Sept. 21; v. 278; p. 531.

Essex Rubber Company, Trenton, N. J. Cycle-handle-bar grips. No. 135,235; Sept. 28; v. 278; p. 702.

Eureka Products Co., St. Louis, Mo. Non-alcoholic, non-cereal, maltless beverage and syrup for making the same. No. 135,236; Sept. 28; v. 278; p. 702.

Evans, Charles E., Manchester, Ga. Medicinal compound for the liver. No. 134,636; Sept. 14; v. 278; p. 355.

Evans, George B., Philadelphia, Pa. Toilet powder. Nos. 134,938–9; Sept. 21; v. 278; p. 531.

Evans, Madge, Hat Co., New York, N. Y. Straw and cloth hats for children, girls, and misses. No. 134,637; Sept. 14; v. 278; p. 355.

Evening News Publishing Company, Newark, N. J. Newspaper-section. No. 134,638; Sept. 14; v. 278; p. 355.

Everbest Milling Corporation, Erie, Pa. Cornmeal, bolted meal, buckwheat-flour, wheat, pastry, and Graham flours. No. 134,941; Sept. 21; v. 278; p. 531.

Everett Knitting Works, Lebanon, N. H. Knitted underwear, both one and two piece. No. 134,940; Sept. 21; v. 278; p. 531.

Everit Chemical Co., New Haven, Conn. Fire-extinguishing fluid. No. 134,639; Sept. 14; v. 278; p. 355.

Everwear Hosiery Company, Milwaukee, Wis. Hosiery. No. 135,369; Sept. 28; v. 278; p. 707.

Excello Mat Company, Inc., New York, N. Y. Leather table mats and runners. No. 134,640; Sept. 14; v. 278; p. 355.

Excello Merchandise Co., Inc., New York, N. Y. Sweaters, women's one-piece muslin underwear, blouses, and workshirts. No. 135,237; Sept. 28; v. 278; p. 702.

Faber & Company, Peoria, Ill. Stock food. No. 135,238; Sept. 28; v. 278; p. 702.

Fabrique de Produits Chimiques Flora, Zurich, Switzerland. Bennet powder and photographic developers. No. 134,496; Sept. 7; v. 278; p. 159.

Faehner, Madeleine, New York, N. Y. Hair-tonic. No. 134,497; Sept. 7; v. 278; p. 159.

Fair Maid Undergarment Co., The., New York, N. Y. Children's and misses' undergarments. No. 134,641; Sept. 14; v. 278; p. 355.

Fair, The, Chicago, Ill. Textile blankets. No. 135,239; Sept. 28; v. 278; p. 702.

Faire Bros. & Co., Limited, Leicester, England. Elastic webs. No. 134,942; Sept. 21; v. 278; p. 531.

Farese, Raffaele A., Newark, N. J. Hair-invigorator. No. 134,943; Sept. 21; v. 278; p. 531.

Farm Equipment Co., The, Baltimore, Md. Steel fire-resisting and surface roofing. No. 134,642; Sept. 14; v. 278; p. 355.

Fats and Oils Service Company, New York, N. Y. Bulletin relating to fats, oils, &c. No. 134,498; Sept. 7; v. 278; p. 160.

Feeback, Harry F., El Paso, Tex. Hair-tonic. No. 134,644; Sept. 14; v. 278; p. 355.

Feinberg & Feinberg, New York, N. Y. Cravats and neckties. No. 134,645; Sept. 14; v. 278; p. 355.

Fesler & Company, St. Louis, Mo. Ointment and tablets for colds, la grippe, and influenza, &c. No. 134,646; Sept. 14; v. 278; p. 355.

Fischer, J. & C., New York, N. Y. Pianofortes, grand and upright pianos, and player-pianos. No. 134,647; Sept. 14; v. 278; p. 355.

Fisher, I., Son & Co., Philadelphia, Pa. Hosiery. No. 134,944; Sept. 21; v. 278; p. 531.

Fitzgerald & Perry, Keota, Iowa. Medicinal preparation to be externally used. No. 134,648; Sept. 14; v. 278; p. 355.

Fitzpatrick Bros., Chicago, Ill. Cleaning compound. No. 134,858; Sept. 14; v. 278; p. 363.

Fleisher, W. L., & Co., Inc., New York, N. Y. Air-conditioning apparatus, air-driers, &c. No. 134,649; Sept. 14; v. 278; p. 355.

Forbriger, Paul, & Co., New York, N. Y. Watches, watch cases, works, and dials. No. 135,240; Sept. 28; v. 278; p. 702.

Ford Manufacturing Co., Waterford, N. Y. Knitted underwear. No. 134,945; Sept. 21; v. 278; p. 531.

Forest Paper Company, New York, N. Y. Writing and printing bond-paper, ledger and writing paper, and mailing-envelops. No. 134,946; Sept. 21; v. 278; p. 531.

Forst, William H., Scottdale, Pa. Hair-tonic. No. 135,241; Sept. 28; v. 278; p. 702.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 135,242–3; Sept. 28; v. 278; p. 702.

Forsyth Dental Infirmary for Children, Boston, Mass. Dentifrice. No. 134,947; Sept. 21; v. 278; p. 531.

Fougera, E., & Co., New York, N. Y. Medicines for the prevention of infections of the urinary tract. No. 134,650; Sept. 14; v. 278; p. 355.

Fox River Paper Company, Appleton, Wis. Writing-paper. No. 134,859; Sept. 14; v. 278; p. 363.

Foxley Stave and Lumber Co., Ltd., New Orleans, La. Staves. No. 134,860; Sept. 14; v. 278; p. 363.

Fulfashon Hosiery Company, New York, N. Y. Hosiery, Nos. 134,651–2; Sept. 14; v. 278; p. 355.

Freedman, Hyman, Chicago, Ill. Furniture. No. 134,948; Sept. 21; v. 278; p. 531.

Fuerst & Kraemer Limited, New Orleans, La. Candy. No. 134,949; Sept. 21; v. 278; p. 531.

Fulghum & Company, Los Angeles, Calif. Hair-nets. No. 134,950; Sept 21; v. 278; p. 531.

Funk & Wagnalls Company, New York, N. Y. Moving-picture films. No. 135,244; Sept. 28; v. 278; p. 702.

Funk & Wagnalls, New York, N. Y. Periodical published weekly. No. 135,245; Sept. 28; v. 278; p. 702.

Funk & Wagnalls Company, New York, N. Y. Moving-picture films. No. 135,246; Sept. 28; v. 278; p. 702.

Gaillard, Auguste, Malaga, Spain. Olive-oil. Nos. 134,500–1; Sept. 7; v. 278; p. 160.

Galbani, Egidio, Melzo, Italy. Cheeses. No. 134,502; Sept. 7; v. 278; p. 160.

Gallaher, J. F., Dayton, Ohio. Ointment for the treatment of pimples, dandruff, and dry scaly eczema. No. 134,951; Sept. 21; v. 278; p. 531.

Garden, Polly B., New York, N. Y. Hair-tonic and gloss and shampoo preparation. No. 134,952; Sept. 21; v. 278; p. 531.

Gardner Motor Co., St. Louis, Mo. Automobiles. No. 134,653; Sept. 14; v. 278; p. 355.

Garfinkel, Frank, New York, N. Y. Laxative candy. No. 134,953; Sept. 21; v. 278; p. 531.

Garrett and Company, Incorporated, New York, N. Y. Dealcoholized wines. No. 134,503; Sept. 7; v. 278; p. 160.

Gary Laboratories Company, Gary, Ind. Foot-lotion. No. 134,654; Sept. 14; v. 278; p. 355.

Gaston, Williams & Wigmore, Inc., New York, N. Y. Turpentine. No. 135,247; Sept. 28; v. 278; p. 702.

Gates Rubber Company, The, Denver, Colo. Rubber tires. No. 134,655; Sept. 14; v. 278; p. 355.

Gatlin, E. C., Company, Kansas City, Mo. Prepared cake mixture. No. 135,248; Sept. 28; v. 278; p. 702.

Gemmer Manufacturing Company, Detroit, Mich. Steering-gears for motor vehicles. No. 135,179; Sept. 21; v. 278; p. 539.

General Electric Company Limited, The, London, England. Electric carbons. No. 134,656; Sept. 14; v. 278; p. 355.

General Rubber Goods Company, The, Cleveland, Ohio. Manufactured rubber merchandise. No. 134,954; Sept. 21; v. 278; p. 531.

Gerstendorfer Bros., New York, N. Y. Paints and painters' materials and a furniture-polish. No. 134,657; Sept. 14; v. 278; p. 355.

Gibson, Joseph E., San Diego, Calif. Photograph-mountings. No. 134,955; Sept. 21; v. 278; p. 531.

Gladney Milling Company, Sherman, Tex. Wheat-flour. No. 134,956; Sept. 21; v. 278; p. 531.

Gleason's, Edwin P., Son, Inc., New York, N. Y. Cotton piece goods. No. 134,861; Sept. 14; v. 278; p. 363.

Glidden Company, The, Cleveland, Ohio. Paints and painters' materials. Nos. 134,658–9; Sept. 14; v. 278; pp. 355–6.

Gloeckler, Louis H., New York, N. Y. Toothache remedies. No. 134,957; Sept. 21; v. 278; p. 531.

Gold Fish Ginger Ale Company, Pocatello, Idaho. Ginger-ale. No. 135,249; Sept. 28; v. 278; p. 702.

Goodrich, B. F., Company, The, New York, N. Y. Billiard-cushions. No. 134,660; Sept. 14; v. 278; p. 356.

Goodrich, B. F., Company, The, New York, N. Y. Elevator-belts made of rubber reinforced with fabric. No. 134,661; Sept. 14; v. 278; p. 356.

Goodwirth, Emil, St. Louis, Mo. Writing and engrossing ink. No. 134,662; Sept. 14; v. 278; p. 356.

Goodyear Tire & Rubber Company, Akron, Ohio. Hose made wholly or in part of rubber. No. 135,180; Sept. 21; v. 278; p. 539.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Rubber and rubber fabric vehicle-tires and treads. No. 135,370; Sept. 28; v. 278; p. 707.

Gooken, James B., Los Angeles, Calif. Rectal suppositories. No. 134,663; Sept. 14; v. 278; p. 356.

Gottman, Theodore & Sons, Chicago, Ill. Chocolate candy. No. 135,181; Sept. 21; v. 278; p. 539.

Grace, W. R. & Co., New York, N. Y., San Francisco, Calif. Tea. No. 134,958; Sept. 21; v. 278; p. 531.

Graham, Murdock M., Boston, Mass. Dolls. No. 134,748; Sept. 14; v. 278; p. 358.

Grand Rapids School Equipment Co., Grand Rapids, Mich. Phonographs. No. 134,664; Sept. 14; v. 278; p. 356.

Grape Ola Products Corporation, New York, N. Y. Flavoring material for making a non-alcoholic beverage and the beverage made therefrom. Nos. 134,504–6; Sept. 7; v. 278; p. 160.

Grant, W. T., Co., New York, N. Y. Hosiery. No. 134,665; Sept. 14; v. 278; p. 356.

Grasselli Chemical Co., The, Cleveland, Ohio. Dyestuffs. No. 134,666; Sept. 14; v. 278; p. 356.

Graves, Willard E., New York, N. Y. Children's dresses. No. 134,667; Sept. 14; v. 278; p. 356.

Graylawn Farms Company, Waterbury, Vt. Insecticides. No. 134,959; Sept. 21; v. 278; p. 531.

Great Northern Toy Co. Inc., New York, N. Y. Toy hydro- and aero-planes. No. 135,960; Sept. 21; v. 278; p. 531.

Greenbaum, Jacob L., Toledo, Ohio. Physic for children. No. 134,668; Sept. 14; v. 278; p. 356.

Greenbaum, Weil & Michels, San Francisco, Calif. Men's and women's knit and textile coats and sweaters. No. 135,357; Sept. 28; v. 278; p. 706.

Greenhalgh, J. H., & Company, Chicago, Ill. Accounting-forms. No. 134,669; Sept. 14; v. 278; p. 356.

Griffin Manufacturing Co., Inc., New York, N. Y. Shoe-polishes, &c. No. 135,250; Sept. 28; v. 278; p. 702.

Grimwood Bros., Evansville, Ind. Phonograph-cabinets. No. 134,671; Sept. 14; v. 278; p. 356.

Gross, Ignatz, Los Angeles, Calif. Boys' suits, overcoats, and caps. No. 134,961; Sept. 21; v. 278; p. 531.

Groton Electrical Devices, Inc., Groton, N. Y. Electrical lavatory drying-machines. No. 135,252; Sept. 28; v. 278; p. 703.

Haas, Adolph R., Chicago, Ill. Ladies' waists and blouses. No. 134,672; Sept. 14; v. 278; p. 356.

Haiff, S., & Co., Los Angeles, Calif. Hosiery. No. 134,673; Sept. 14; v. 278; p. 356.

Hall, Martha, San Francisco, Calif. Medicine for tuberculosis. No. 134,674; Sept. 14; v. 278; p. 356.

Hall, Thomas H., Jersey City, N. J. Gloves of leather and fabric. No. 134,962; Sept. 21; v. 278; p. 531.

Halsam Products Company, Chicago, Ill. Building-blocks, play-blocks, and blocks for games. No. 134,675; Sept. 14; v. 278; p. 356.

Hamilton Motors Company, Grand Haven, Mich. Motor-trucks and automobiles. No. 135,253; Sept. 28; v. 278; p. 703.

Hammond Iron Works, Warren, Pa. Oil-tanks. No. 134,963; Sept. 21; v. 278; p. 532.

Harder, Francis C., Plainfield, N. J. Cotton piece goods. No. 135,182; Sept. 21; v. 278; p. 540.

Harder Manufacturing Corporation, Cobleskill, N. Y. Refrigerators. Nos. 135,254–5; Sept. 28; v. 278; p. 703.

Hardy, Robert T., Brooklyn, N. Y. Semi-annual periodicals. No. 134,676; Sept. 14; v. 278; p. 356.

Hartford Battery Manufacturing Company, The, Hartford, Conn. Storage batteries and parts thereof. No. 134,677; Sept. 14; v. 278; p. 356.

Harz, George, Chicago, Ill. Insecticides for dogs and cats. No. 135,256; Sept. 28; v. 278; p. 703.

Hawk-Eye Mfg. Company, Dallas, Tex. Polishing preparations for automobiles, carriages, coaches, floors, &c. No. 134,964; Sept. 21; v. 278; p. 532.

Hawkeye Oil Company, Waterloo, Iowa. Medicated crude oil for treating cutaneous diseases of animals. No. 134,965; Sept. 21; v. 278; p. 532.

Haynes Automobile Company, The, Kokomo, Ind. Automobiles. No. 134,678; Sept. 14; v. 278; p. 356.

Haynes, J. J., & G. W., Atlanta, Ga. Cleansing preparation for woodwork, metal, or clothing. No. 135,257; Sept. 28; v. 278; p. 703.

Headley Good Roads Company, Philadelphia, Pa. Road-oil used as a binder. No. 134,507; Sept. 7; v. 278; p. 160.

Heffner, Charles L., Brooklyn, N. Y. Medicinal preparation used in the treatment of certain named diseases. No. 134,679; Sept. 14; v. 278; p. 356.

Henderson Lithographing Company, The, Cincinnati, Ohio. Blotters, folders, &c. No. 134,680; Sept. 14; v. 278; p. 356.

Herzfeld-Phillipson Company, Milwaukee, Wis. Player-pianos. No. 135,258; Sept. 28; v. 278; p. 703.

Hexter-Stewart Corporation Company, The, Cleveland, Ohio. Liquid soap. No. 134,966; Sept. 21; v. 278; p. 532.

Heymann, Max, Mount Vernon, N. Y. Magazine or periodical. No. 135,259; Sept. 28; v. 278; p. 703.

Hibbard, Spencer, Bartlett, & Co., Chicago, Ill. Fishing rods, lines, reels, hooks, and fishing-bait—namely, artificial minnow. No. 135,260; Sept. 28; v. 278; p. 703.

Hickey, Elizabeth M., Seattle, Wash. Cleaning compound. No. 135,261; Sept. 28; v. 278; p. 703.

Highway Trailer Company, Edgerton, Wis. Trailers. No. 135,262; Sept. 28; v. 278; p. 703.

Hill, Ernest A., San Francisco, Calif. Overalls for children. No. 134,967; Sept. 21; v. 278; p. 532.

Hind & Harrison Plush Co., The, New York and Clark Mills, N. Y. Pile-fabric piece goods. No. 134,968; Sept. 21; v. 278; p. 532.

Hoerner, William M., Harrisburg, Pa. Blank books in which saving-stamps will be pasted. No. 134,969; Sept. 21; v. 278; p. 532.

Holland, William W., Wood River, Ill. Base-metal alloys. No. 134,970; Sept. 21; v. 278; p. 532.

Holquin, Ramona M., Douglas, Ariz. Remedy against dandruff, &c., and tonic to stimulate the growth of hair. No. 134,681; Sept. 14; v. 278; p. 356.

Holt Manufacturing Company, The, Stockton, Calif. Wagons. No. 134,971; Sept. 21; v. 278; p. 532.

Hoosier Chemical Company, Mount Carmel, Ill. Stove-polish. No. 134,682; Sept. 14; v. 278; p. 356.

Hope Knitting Company, Cohoes, N. Y. Underwear for men and women. No. 134,683; Sept. 14; v. 278; p. 356.

Horton Manufacturing Company, The, Bristol, Conn. Fishing-lines. No. 134,972; Sept. 21; v. 278; p. 532.

Horton Manufacturing Co., The, Bristol, Conn. Fishing-lines. No. 135,263; Sept. 28; v. 278; p. 703.

Howell, Henry M., New York, N. Y. Germicide. No. 134,973; Sept. 21; v. 278; p. 532.

Huber, Joseph M., New York, N. Y. Printing-inks. No. 134,974; Sept. 21; v. 278; p. 532.

Hudnut, Richard, New York, N. Y. Perfume, toilet water, sachet, talcum, face, and bath powders, cologne, &c. No. 134,684; Sept. 14; v. 278; p. 356.

Hunt, Carolyn M., Los Angeles, Calif. Girls' cotton wash-dresses and rompers. No. 135,264; Sept. 28; v. 278; p. 703.

Hunt Chemical Company, Jacksonville, Fla. Stainless croup and pneumonia salve. No. 134,685; Sept. 14; v. 278; p. 356.

Hunt Chemical Company, Jacksonville, Fla. Cold, croup, and pneumonia salve. No. 134,686; Sept. 14; v. 278; p. 356.

Hurley, William J., Chicago, Ill. Tonic for the bowel action and improving the digestion. No. 134,687; Sept. 14; v. 278; p. 356.

Hurley, William J., Chicago, Ill. Tonic for aiding the digestive organs and improving the appetite. No. 134,688; Sept. 14; v. 278; p. 356.

Hutchinson, James F., Rochester, N. Y. Telephone-index blank. No. 134,975; Sept. 21; v. 278; p. 532.

Iles, Albert S., Birmingham, England. Table ball-game. No. 134,690; Sept. 14; v. 278; p. 356.

Ilg Electric Ventilating Company, Chicago, Ill. Electrically-operated fans and blowers. No. 134,976; Sept. 21; v. 278; p. 532.

Ilg Electric Ventilating Company, Chicago, Ill. Electrically-operated heating and ventilating units. No. 134,977; Sept. 21; v. 278; p. 532.

Imrie, Carl B., Brooklyn, N. Y. Deodorants and preparations for the relief of excessive perspiration. No. 134,689; Sept. 14; v. 278; p. 356.

Indiana Truck Corporation, Marion, Ind. Motor-trucks. No. 134,691; Sept. 14; v. 278; p. 356.

International Coal Products Corporation. (See Smith, Charles H., assignor.)

International Cork Company, Brooklyn, N. Y. Cork disks, washers, and gaskets. No. 134,978; Sept. 21; v. 278; p. 532.

International Salt Co., New York, N. Y. Table-salt. No. 134,979; Sept. 21; v. 278; p. 532.

International Worsted Mills, Methuen, Mass. Light-weight fancy worsted cloth in the piece. No. 134,980; Sept. 21; v. 278; p. 532.

Interstate Commerce Company, Richmond, Va. Non-alcoholic, non-cereal beverages. No. 134,862; Sept. 14; v. 278; p. 363.

Ionite Storage Battery Co., Worcester, Mass. Electric batteries and parts thereof. No. 134,981; Sept. 21; v. 278; p. 532.

Isaac, Morris, & Sons, Cincinnati, Ohio. Union-suits, shirts, and drawers. No. 135,265; Sept. 28; v. 278; p. 703.

"J. D." Insulating & Refrigerating Co. Ltd., Liverpool, England. Composition fireproof floorings and coverings for partitions, walls, and roofings. No. 134,692; Sept. 14; v. 278; p. 357.

Jeffrey, William R., Boston, Mass. Medicine for gallstones and gravel. No. 134,982; Sept. 21; v. 278; p. 532.

Jennings & Company, Inc., Boston, Mass. Dyestuffs. No. 134,983; Sept. 21; v. 278; p. 532.

Jennings Lace Works Corporation, Brooklyn, N. Y. Clothing. No. 134,693; Sept. 14; v. 278; p. 357.

Johnson City Mills, Johnson City, Tenn. Hosiery. No. 134,694; Sept. 14; v. 278; p. 357.

Jonas, Joseph C., Brooklyn, N. Y. Corn remedies, cough medicine, liniment for sprains, &c. No. 134,695; Sept. 14; v. 278; p. 357.

Jordan and Hamble Compounding Company, Houston, Tex. Liniment for the treatment of rheumatism. No. 134,984; Sept. 21; v. 278; p. 532.

Jordan Motor Car Co., Cleveland, Ohio. Automobiles. No. 134,985; Sept. 21; v. 278; p. 532.

Josin, William H., Providence, R. I. Braids, shoe and corset laces, and galloons. No. 134,508; Sept. 7; v. 278; p. 160.

Judy, Will S., Lexington, Ky. Tobacco-seed. No. 134,696; Sept. 14; v. 278; p. 357.
Kali Manufacturing Co., Philadelphia, Pa. Antiseptic and disinfectant for sick-rooms, closets, and household purposes. No. 134,509; Sept. 7; v. 278; p. 160.
Kashinsky, John, Weehawken, N. J. Clothes-washing machines and mangles. No. 135,266; Sept. 28; v. 278; p. 703.
Kasser, Adolf, Philadelphia, Pa. Soap. No. 134,697; Sept. 14; v. 278; p. 357.
Kaufman, Jacob J., Columbus, Ga. Pomade hair-dressing. No. 134,698; Sept. 14; v. 278; p. 357.
Kaufmann Bros. & Bondy, New York, N. Y. Smokers' pipes, cigar, and cigarette holders. No. 134,986; Sept. 21; v. 278; p. 532.
Kayser, Henry, & Fils, Inc., New York, N. Y. Filter-paper. No. 134,987; Sept. 21; v. 278; p. 532.
Keebler Weyl Baking Co., Philadelphia, Pa. Crackers, cakes, pies, chocolate, chewing-gum, and candy, &c. No. 135,358; Sept. 28; v. 278; p. 706.
Keiner & Pohl Company, Milwaukee, Wis. Leather-dressings. No. 134,988; Sept. 21; v. 278; p. 532.
Kendorski, Walter, Philadelphia, Pa. Deodorant, an insecticide, and a roach powder. No. 134,699; Sept. 14; v. 278; p. 357.
Kenny, C. D., Co., The, Baltimore, Md. Coffee. No. 135,267; Sept. 28; v. 278; p. 703.
Kick, Emile F., Newark, N. J. Sulfureted oil for emulsifying raw oils. No. 134,700; Sept. 14; v. 278; p. 357.
Kiger, Elizabeth, Birmingham, Ala. Hair-tonic. No. 134,701; Sept. 14; v. 278; p. 357.
Kilbourne & Clark Manufacturing Co., Seattle, Wash. Radio telegraph and telephone apparatus. No. 134,702; Sept. 14; v. 278; p. 357.
Kimball & Sherman Company, Haverhill, Mass. Leather boots and shoes. No. 135,268; Sept. 28; v. 278; p. 703.
King Ventilating Company, Owatonna, Minn. Plans for building. No. 134,703; Sept. 14; v. 278; p. 357.
Knight, Charles V., Portsmouth, Va. Chill and fever tonic. No. 134,989; Sept. 21; v. 278; p. 532.
Koss, Edward H., Washington, D. C. Ointment for the relief of colds in the head and chapped skin. No. 134,704; Sept. 14; v. 278; p. 357.
Krinsky, I. B., Inc., Estate of, New York, N. Y. Cigarettes, little cigars, and smoking-tobacco. No. 135,269; Sept. 28; v. 278; p. 703.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 134,705; Sept. 14; v. 278; p. 357.
Kunsemann, John J., Brooklyn, N. Y. Automobile-mirrors. No. 134,990; Sept. 21; v. 278; p. 532.
Kurman, Sonia, New York, N. Y. Hair-tonic. No. 134,706; Sept. 14; v. 278; p. 357.
Laakman, Edward M., Farmington, Mo. Preparations for treatment of eczema and other skin and scalp eruptions. No. 134,991; Sept. 21; v. 278; p. 532.
Laclede-Christy Clay Products Company, St. Louis, Mo. High-temperature cement for the construction and repair of furnaces. No. 134,707; Sept. 14; v. 278; p. 357.
Lamb Railway Service Co., Ltd., Windsor, Canada, and Detroit, Mich. Automobile and furniture finish. No. 134,708; Sept. 14; v. 278; p. 357.
Lange Soap Co., San Antonio, Tex. Soap. No. 134,992; Sept. 21; v. 278; p. 532.
Larivee, Laura J., Detroit, Mich. Scalp-ointment. No. 134,993; Sept. 21; v. 278; p. 532.
Lash's Bitters Co., New York, N. Y. Non-alcoholic beverage. No. 134,994; Sept. 21; v. 278; p. 532.
Laubheim Bros., New York, N. Y. Watches. No. 134,995; Sept. 21; v. 278; p. 532.
Lawrence Airplane Model and Supply Company, Chicago, Ill. Toy airplanes. No. 134,709; Sept. 14; v. 278; p. 357.
Lawrence Canning Co., Rockland, Me. Sardines. No. 134,710; Sept. 14; v. 278; p. 357.
Lazell Perfumer, Newburgh, N. Y. Toilet preparations. No. 134,711; Sept. 14; v. 278; p. 357.
Leprince, Maurice, Paris, France. Remedy for the treatment of venereal diseases. No. 134,996; Sept. 21; v. 278; p. 532.
Liberty Hosiery Company, The, Rock Hill, S. C. Men's half-hose. No. 134,997; Sept. 21; v. 278; p. 533.
Liberty Steel Products Company, Inc., New York, N. Y. Rubber tires. No. 134,712; Sept. 14; v. 278; p. 357.
Lichtenstein & Company Limited, Uxbridge, England. Coloring matters for foods and liquids. No. 134,713; Sept. 14; v. 278; p. 357.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 134,714; Sept. 14; v. 278; p. 357.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 135,273; Sept. 28; v. 278; p. 703.
Lilly, Eli, & Company, The, Indianapolis, Ind. Expectorant and bronchial sedative. No. 134,715; Sept. 14; v. 278; p. 357.
Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation of hexamethylenamin. No. 134,998; Sept. 21; v. 278; p. 533.
Lilly, Eli, & Company, The, Indianapolis, Ind. Headache-tablets, pills, and capsules. No. 134,999; Sept. 21; v. 278; p. 533.
Lilly, George L., Jacksonville, Fla. General tonic. No. 135,000; Sept. 21; v. 278; p. 533.
Lily Cup Company, The, New York, N. Y. Paper or pulp towels. No. 135,001; Sept. 21; v. 278; p. 533.
Lincoln Manufacturing Company, Detroit, Mich. Ornamental art electric-lighting fixtures. No. 135,002; Sept. 21; v. 278; p. 533.
Lindenmeyr, Henry, & Sons, New York, N. Y. Printing and writing paper. No. 135,274; Sept. 28; v. 278; p. 703.
Lindh, Charles E., Inc., Philadelphia, Pa. Piece goods. No. 134,510; Sept. 7; v. 278; p. 160.
Lisenby Manufacturing Company, Fresno, Calif. Printing-presses and parts thereof. No. 134,511; Sept. 7; v. 278; p. 160.
Locke, H. E., & Company, Boston, Mass. Thread and yarn. No. 134,716; Sept. 14; v. 278; p. 357.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 135,371; Sept. 28; v. 278; p. 707.
Locke, Insulator Manufacturing Company, The, Baltimore, Md. Insulators for high-tension insulation. No. 134,717; Sept. 14; v. 278; p. 357.
London, Samuel, & Co., Inc., New York, N. Y. Dress, negligée, and work shirts. No. 134,718; Sept. 14; v. 278; p. 357.
Lone Prairie Remedies Co., San Antonio, Tex. Medicine for tick-fever in animals. No. 134,719; Sept. 14; v. 278; p. 357.
Lorain Rubber Heel Company, Lorain, Ohio. Rubber heels. No. 135,270; Sept. 28; v. 278; p. 703.
Lord & Taylor, New York, N. Y. Shoes. No. 135,271; Sept. 28; v. 278; p. 703.
Lotus Magazine Foundation, Inc., The, New York, N. Y. Monthly magazine. No. 134,512; Sept. 7; v. 278; p. 160.
Louisiana Motor Car Company, Inc., Shreveport, La. Automobiles. No. 134,720; Sept. 14; v. 278; p. 357.
Lowe, Jacob J., Boston, Mass. X-ray apparatus for determining the fit of footwear. No. 134,721; Sept. 14; v. 278; p. 357.
Ludlow, Bertha A., Caldwell, N. J. Dry medicated asthma and bronchial shields. No. 135,003; Sept. 21; v. 278; p. 533.
Ludwig, Arthur I., New York, N. Y. Textile fabrics. No. 135,004; Sept. 21; v. 278; p. 533.
Luminous Specialty Company, Indianapolis, Ind. Lighting units—namely, translucent reflectors for semi-indirect illumination. No. 135,275; Sept. 28; v. 278; p. 703.
Lustr-Ite Corporation, The, Brooklyn, N. Y. Toilet preparations. No. 134,722; Sept. 14; v. 278; p. 357.
Luther Grinder Manufacturing Company, Milwaukee, Wis. Tool-grinding machines. No. 135,251; Sept. 28; v. 278; p. 703.
Lynn-Kerr & Co., Louisville, Ky. Pattern-hats for misses, women, and children. No. 134,723; Sept. 14; v. 278; p. 357.
Lyon & Healy, Chicago, Ill. Banjos, mandolins, guitars, &c. No. 135,272; Sept. 28; v. 278; p. 703.
M. & G. Novelty Company, Attleboro, Mass. Lingerie, scarf, collar, and bib clasps. No. 134,727; Sept. 14; v. 278; p. 358.
M W M Soap Co., San Jose, Calif. Soap. No. 135,008; Sept. 21; v. 278; p. 533.
McClaren Rubber Company, Charlotte, N. C. Rubber or rubber and fabric tires and tubes for vehicles. No. 135,006; Sept. 21; v. 278; p. 533.
McConaghy, Anna V., Washington, D. C. Insecticides. No. 134,513; Sept. 7; v. 278; p. 160.
McCrackin, Furman B., Bamberg, S. C. Medicine used in the treatment of chills, fever, malaria, &c. No. 134,725; Sept. 14; v. 278; p. 358.
McIntosh Battery and Optical Co., Chicago, Ill. Apparatus for therapeutic purposes. No. 134,726; Sept. 14; v. 278; p. 358.
McKesson & Robbins Inc., New York, N. Y. Perfumery. No. 134,514; Sept. 7; v. 278; p. 160.
McLaren Rubber Company, Charlotte, N. C. Rubber or rubber and fabric tires and tubes for vehicles. No. 134,724; Sept. 14; v. 278; p. 357.
McNeal, Janet C., Washington, D. C. Corsets and abdominal supporters. No. 135,007; Sept. 21; v. 278; p. 533.
Macbeth-Evans Glass Company, Pittsburgh, Pa. Glass dishes. No. 135,009; Sept. 21; v. 278; p. 533.
Macy, R. H., & Co. Inc., New York, N. Y. Children's one-piece sleeping-suits. No. 135,010; Sept. 21; v. 278; p. 533.
Macy, R. H., & Co., New York, N. Y. Corsets. Nos. 135,276–7; Sept. 28; v. 278; p. 703.
Madansky Brothers, Oklahoma, Okla. Clothing for men and boys. No. 134,728; Sept. 14; v. 278; p. 358.
Magic Coffee Machine Company, Inc., Chicago, Ill. Electric coffee-roasters. No. 135,278; Sept. 28; v. 278; p. 703.
Magnolia Petroleum Company, Dallas, Tex. Lubricating-oils. No. 135,279; Sept. 28; v. 278; p. 703.
Maire, August E., Minneapolis, Minn. Cold-water paint. No. 134,729; Sept. 14; v. 278; p. 358.
Manghisi, Andrew A., West Hoboken, N. J. Phonographs. No. 134,732; Sept. 14; v. 278; p. 358.
Manhattan Medicine Co., The, Des Moines, Iowa. Laxative tonic. No. 134,515; Sept. 7; v. 278; p. 160.
Manu, Alexander S., Providence, R. I. Liquid antiseptic. No. 134,730; Sept. 14; v. 278; p. 358.
Many Blanc and Co., Chicago, Ill. Cigars. No. 134,731; Sept. 14; v. 278; p. 358.
Marcus Lucius Quim Conservatory of Music, Boston, Mass. Educational appliance. No. 135,307; Sept. 28; v. 278; p. 704.
Marshalltown Syrup & Sugar Company, Marshalltown, Iowa. Toppings for ice-cream. No. 135,183; Sept. 21; v. 278; p. 540.
Marten, Edward R., St. Louis, Mo. Laxative medicinal remedies. No. 134,733; Sept. 14; v. 278; p. 358.

Martin, Arda N., Baltimore, Md. Remedy for war-wounds, old sores, burns, and abscesses. No. 135,011; Sept. 21; v. 278; p. 533.
Martin, C. J., Austin, Tex. Insecticide and vermin-exterminator. No. 134,734; Sept. 14; v. 278; p. 358.
Master Builders Company, The, Cleveland, Ohio. Liquid preparation. No. 134,735; Sept. 14; v. 278; p. 358.
May, W. J., & Co. Limited, East Twickenham, England. Fountain-pens. No. 135,280; Sept. 28; v. 278; p. 703.
Meakin, J. & G., Limited, Hanley, England. Ironstone chine and semiporcelain earthenware. No. 135,281; Sept. 28; v. 278; p. 703.
Mebane Bedding Co., The, Mebane, N. C. Felt mattresses. No. 134,736; Sept. 14; v. 278; p. 358.
Medici Society—American Branch—Inc., Boston, Mass. Prints and publications. No. 134,737; Sept. 14; v. 278; p. 358.
Mehlin, Paul G., & Sons, New York, N. Y. Pianos. No. 134,738; Sept. 14; v. 278; p. 358.
Meissner, C. R., Co., New York, N. Y. Embroidery-wool, wool threads, and threads made of linen, cotton, &c. No. 134,739; Sept. 14; v. 278; p. 358.
Meldram, Minnie M., New York, N. Y. Dolls. No. 135,282; Sept. 28; v. 278; p. 703.
Melhuish, Harold T., Amityville, N. Y. Antiseptic and healing ointment. No. 134,740; Sept. 14; v. 278; p. 358.
Melikian Cigarettes, Inc., Wilmington, Del., and Trenton, N. J. Cigarettes. No. 135,283; Sept. 28; v. 278; p. 703.
Meltow Medicine Company, Inc., McBee, S. C. Compound of medicine for the treatment of liver, kidney, and stomach troubles. No. 135,012; Sept. 21; v. 278; p. 533.
Merchant Loveys Leather Co., Boston, Mass. Leather. No. 134,741; Sept. 14; v. 278; p. 358.
Merchants Trade Association Company, Chicago, Ill. Leather boots and shoes. No. 135,284; Sept. 28; v. 278; p. 703.
Metzler, Jerome, New York, N. Y. Silks, satins, velvets, &c. No. 134,742; Sept. 14; v. 278; p. 358.
Meyer Brothers Drug Company, St. Louis, Mo. Toilet preparations. No. 134,743; Sept. 14; v. 278; p. 358.
Middlesex County Creamery Co., Boston, Mass. Oleomargarin. No. 135,013; Sept. 21; v. 278; p. 533.
Midland Playing Card Co., Chicago, Ill. Playing-cards. No. 134,744; Sept. 14; v. 278; p. 358.
Miles, W. H., Shoe Co., Inc., Richmond, Va. Boots and shoes made of leather. No. 125,278; Sept. 28; v. 278; p. 704.
Miller, Edward, & Co., Meriden, Conn. Electric-lighting fixtures and lamps. No. 135,014; Sept. 21; v. 278; p. 533.
Mills, Angier, Ashland, Mass. Waterproof wrapping and lining paper. No. 134,745; Sept. 14; v. 278; p. 358.
Mills Brothers Company, The, Cincinnati, Ohio. Soap. No. 135,015; Sept. 21; v. 278; p. 533.
Mims, J. H., Boston, Ga. Medicine for constipation, torpid liver, indigestion, &c. No. 134,550; Sept. 7; v. 278; p. 161.
Moldenhauer, Henry R., Watertown, Wis. Brick-cheese. No. 135,016; Sept. 21; v. 278; p. 533.
Moluska Corporation, New York, N. Y. Canned concentrated clam and oyster-juices. No. 135,286; Sept. 28; v. 278; p. 704.
Monarch Leather Company, Chicago, Ill. Leather. No. 135,372; Sept. 28; v. 278; p. 707.
Moore & Thompson Paper Company, Bellows Falls, Vt. Wrapping-paper. No. 135,017; Sept. 21; v. 278; p. 533.
Morey and Company, Cambridge, Mass. Finished paper-stock, book-paper, newspaper, and wrapping-paper. No. 135,018; Sept. 21; v. 278; p. 533.
Morris & Yeomans, Limited, Redditch, England. Hand needles, hat, toilet, safety, and hair pins, button-hooks, &c. No. 134,516; Sept. 7; v. 278; p. 160.
Morris & Yeomans, Limited, Redditch, England. Boot-drivers, boot-awls, machinery-springs. No. 135,019; Sept. 21; v. 278; p. 533.
Moss, Henry, & Co. Inc., New York, N. Y. Stencils, oil-board, wax seals, and rubber bands. No. 135,020; Sept. 21; v. 278; p. 533.
Motion Picture News, Inc., New York, N. Y. Weekly magazine. No. 135,287; Sept. 28; v. 278; p. 704.
Mt. Tom Hat Manufacturing Company, Inc., Easthampton, Mass. Men's hats. No. 134,746; Sept. 14; v. 278; p. 358.
Muller Export Company, New York, N. Y., and Chicago, Ill. Hosiery. No. 134,747; Sept. 14; v. 278; p. 358.
Muro Wall Board Company, Inc., Buffalo, N. Y. Wall-board and building-paper. No. 134,517; Sept. 7; v. 278; p. 160.
Murray, Robt. W., Birmingham, Ala. Medicinal treatment for colds and grippe. No. 134,749; Sept. 14; v. 279; p. 358.
Mutual Drug Company, Ellenville, N. Y. Skin-lotions. No. 135,288; Sept. 28; v. 278; p. 704.
Nakayama, Toyozo, Osaka, Japan. Stationery. No. 135,021; Sept. 21; v. 278; p. 533.
Napco Corporation, Indianapolis, Ind. Pastelike preparation for shaving and skin-healing purposes. No. 135,022; Sept. 21; v. 278; p. 533.
Narrow Fabric Co., The, Wyomissing borough, near Reading, Pa. Notions. No. 134,750; v. 278; p. 358.
National Brewers Academy & Consulting Bureau, New York, N. Y. Compound for improving the character or quality of beer or near beer. No. 135,289; Sept. 28; v. 278; p. 704.
National Papeterie Company, Springfield, Mass. Writing-paper and envelops. No. 135,023; Sept. 21; v. 278; p. 533.
Neff, Ward A., Chicago, Ill. Newspapers. No. 135,290; Sept. 28; v. 278; p. 704.
Neuberger, Andrew J., Boston, Mass. House, hat, sink, cuspidor, and dish-cleaning brushes. No. 135,291; Sept. 28; v. 278; p. 704.
New York Band Instr. Co., New York, N. Y. Musical instruments. No. 134,752; Sept. 14; v. 278; p. 358.
New York Boat Oar Co., Inc., New York, N. Y. Oars, sweeps, and sculls. No. 135,024; Sept. 21; v. 278; p. 533.
Newark Plaster Company, Newark, N. J. Plaster-of-Paris of non-adhesive character for use of dentists and surgeons. No. 134,751; Sept. 14; v. 278; p. 358.
Northam Warren Corporation, New York, N. Y. Cold-cream. No. 134,518; Sept. 7; v. 278; p. 160.
Northampton Cutlery Company, Northampton, Mass. Table-knives of base metal. No. 135,293; Sept. 28; v. 278; p. 704.
Norwood, Frederick A., Delaware, Ohio. Preparations for headache, colds, rheumatism, &c., bay-rum, rouge, &c. No. 134,519; Sept. 7; v. 278; p. 160.
Notaseme Hosiery Company, Philadelphia, Pa. Dolls. No. 134,753; Sept. 14; v. 278; p. 358.
Novelty Incandescent Lamp Company, Emporium, Pa. Incandescent electric lamps. No. 135,025; Sept. 21; v. 278; p. 533.
Novelty Knitting Mills, Milwaukee, Wis. Knitted caps, sweaters, gloves, and mittens. No. 135,026; Sept. 21; v. 278; p. 533.
Novocol Chemical Mfg. Co., Inc., Brooklyn, N. Y. Local anesthetics. No. 134,520; Sept. 7; v. 278; p. 160.
Nu-Tex Hosiery Co., Inc., Utica, N. Y. Men's and women's hosiery of wool, cotton, silk, &c. No. 135,292; Sept. 28; v. 278; p. 704.
Nunnally Company, The, Atlanta, Ga. Candy. No. 135,373; Sept. 28; v. 278; p. 707.
Oakley Chemical Co., New York, N. Y. Granulated chemical cleaning compounds. No. 134,754; Sept. 14; v. 278; p. 358.
Ohio Varnish Company, The, Cleveland, Ohio. Paste soap. No. 134,755; Sept. 14; v. 278; p. 358.
Olmstead, Albert, Philadelphia, Pa. Oil for use in making cores in foundries. No. 135,294; Sept. 28; v. 278; p. 703.
Omega Chemical Company, The, New York, N. Y. Soaps. No. 135,027; Sept. 21; v. 278; p. 533.
Oppenheimer, Charles, Philadelphia, Pa. Hair-nets. No. 135,184; Sept. 21; v. 278; p. 540.
Ori-Ori Company, New York, N. Y. Hair dyes and shampoo. No. 134,756; Sept. 14; v. 278; p. 358.
Orotech Manufacturing Co., Wilmington, Del., and Pittsburgh, Pa. Amusement devices employing mirrors for reflecting movement. No. 135,295; Sept. 28; v. 278; p. 704.
Pacific Coast Borax Co., New York, N. Y. Soap and soap chips. No. 135,028; Sept. 21; v. 278; p. 533.
Package Confectionery Company, Boston, Mass. Candy. No. 135,374; Sept. 28; v. 278; p. 707.
Palmer, Solon, New York, N. Y. Toilet and shaving soap. No. 134,757; Sept. 14; v. 278; p. 358.
Palmer Tire Company, The, Topeka, Kans. Tire-repair outfits comprising rubber patches and cement for attaching same. No. 134,758; Sept. 14; v. 278; p. 358.
Palmyra Knitting Company, Palmyra, N. J. Women's knit napkins. No. 135,029; Sept. 21; v. 278; p. 533.
Pandolfo, Samuel C., St. Cloud, Minn. Tanks, tool-chests, and canteens for automobiles. No. 134,759; Sept. 14; v. 278; p. 359.
Pantasote Leather Company, The, Passaic, N. J. Waterproof fabrics in the piece. Nos. 135,030–1; Sept. 21; v. 278; p. 534.
Paper Mills' Company, The, Chicago, Ill. Writing and printing paper and writing-tablets. No. 135,032; Sept. 21; v. 278; p. 534.
Par Po Mfg. Co., Detroit, Mich. Parcel-post packages. No. 135,033; Sept. 21; v. 278; p. 534.
Parker, Bettie, Lackawanna, N. Y. Soap. No. 134,760; Sept. 14; v. 278; p. 359.
Parkhill Manufacturing Co., Fitchburg, Mass. Ginghams and cotton goods in the piece. No. 135,296; Sept. 28; v. 278; p. 704.
Parkhill Mfg. Co., Fitchburg, Mass. Ginghams and cotton piece goods. No. 135,034; Sept. 21; v. 278; p. 534.
Paristyle Novelty Co. Inc., New York, N. Y. Hair-nets. No. 135,035; Sept. 21; v. 278; p. 534.
Parsons & Whittemore Inc., New York, N. Y. Writing, printing, blotting, and wrapping papers. No. 135,036; Sept. 21; v. 278; p. 534.
Patch, E. L., Co., The, Stoneham, Mass. Rubefacient and anodyne cream. No. 135,297; Sept. 28; v. 278; p. 704.
Pearson Products Corporation, New York, N. Y. Tobacco-pouches. No. 135,037; Sept. 21; v. 278; p. 534.
Peck, A. E., Manufacturing Company, Minneapolis, Minn. Tooth-paste and tooth-powder. No. 135,038; Sept. 21; v. 278; p. 534.

Peck, Samuel W., & Co., New York, N. Y. Young men's three-piece suits. No. 135,039; Sept. 21; v. 278; p. 534.

Pelgram & Meyer, New York, N. Y. Ribbons. No. 134,521; Sept. 7; v. 278; p. 160.

Pemetine Company Inc., The, New York, N. Y. Preparation for the treatment of the teeth. No. 134,522; Sept. 7; v. 278; p. 160.

Penn Grains and Feed Company, Philadelphia, Pa. Dairy rations. No. 134,863; Sept. 14; v. 278; p. 363.

Penn Mfg. Co., Kansas City, Mo. Spark-plugs. No. 135,298; Sept. 28; v. 278; p. 704.

Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate and candy. No. 135,185; Sept. 21; v. 278; p. 540.

Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate candy. No. 135,186; Sept. 21; v. 278; p. 540.

Peoples System of Bakeries, assignor to Peoples System of Bakeries Inc., Chicago, Ill. Baking plant sold as a unit. No. 134,523; Sept. 7; v. 278; p. 160.

Perez, Henry L., New York, N. Y. Concentrated and powdered inks, ink-sticks, and ink for writing purposes. No. 135,040; Sept. 21; v. 278; p. 534.

Perfection Storage Battery Co., Chicago, Ill. Electric storage batteries. No. 135,299; Sept. 28; v. 278; p. 704.

Perfection Storage Battery Co., Chicago, Ill. Unitary electric-light plants. Nos. 135,300–1; Sept. 28; v. 278; p. 704.

Pershing, Eli B., Washington, D. C. Candies. No. 135,041; Sept. 21; v. 278; p. 534.

Petroleum Products Co., San Francisco, Cal. Kerosene. No. 134,761; Sept. 14; v. 278; p. 359.

Philip Carey Manufacturing Company, The, Lockland, Ohio. Roofing, heat and cold insulating materials, &c. No. 134,525; Sept. 7; v. 278; p. 160.

Phoenix Light Company, Milwaukee, Wis. Electric-light-fixture parts. No. 134,762; Sept. 14; v. 278; p. 359.

Photoplay Publishing Company, Chicago, Ill. Magazine. No. 134,526; Sept. 7; v. 278; p. 160.

Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Monthly magazine. No. 134,763; Sept. 14; v. 278; p. 359.

Pillsbury Flour Mills Company, Minneapolis, Minn. Buckwheat pancake-flour, wheat cereal, pancake-flour, rolled oats, and health-bran. No. 135,302; Sept. 28; v. 278; p. 704.

Piper, Roscoe B., Sioux City, Iowa. Automobile tires and tubes. No. 135,042; Sept. 21; v. 278; p. 534.

Piroloid Products Corporation, New York, N. Y. Dice, dominoes, chess, checkers, &c. No. 134,764; Sept. 14; v. 278; p. 359.

Plaza Music Co., New York, N. Y. Talking-machine needles. No. 135,043; Sept. 21; v. 278; p. 534.

Plix Light Company, inc., New York, N. Y. Motor-driven electric light and power units. No. 135,044; Sept. 21; v. 278; p. 534.

Plymouth Phonograph Co., Plymouth, Wis. Phonographs. No. 134,765; Sept. 14; v. 278; p. 359.

Poetzl, Charles, Baltimore, Md. Remedy to promote the growth of the hair. No. 134,766; Sept. 14; v. 278; p. 359.

Polonia Drug Company, The, Philadelphia, Pa. Liniments to be used externally for relieving rheumatic and gouty conditions, neuralgia, liquid cough medicines, headache remedies, liver-pills, &c. No. 134,767; Sept. 14; v. 278; p. 359.

Pomeroy and Company, Atlanta, Ga. Medicine for certain named diseases. No. 135,303; Sept. 28; v. 278; p. 704.

Pomeroy Ink Manufacturing Co., Newark, N. J. Writing-inks of all kinds, inks for stamp-pads, and numbering-machines, &c. Nos. 134,768–9; Sept. 14; v. 278; p. 359.

Poor's Publishing Company, New York, N. Y. Publications. No. 134,770; Sept. 14; v. 278; p. 359.

Porcupine Manufacturing Company. (See Steell, Edgar M., assignor.)

Powers Paper Company, Springfield, Mass. Non-carbonized typewriting and printing paper. No. 134,527; Sept. 7; v. 278; p. 160.

Praisner, Solomon, Brooklyn, N. Y. Fluid intended to relieve falling hair. No. 135,045; Sept. 21; v. 278; p. 534.

Premier Manufacturing Co., Lexington, Ky. Athletic union-suits. No. 135,046; Sept. 21; v. 278; p. 534.

Price, William B., Poughkeepsie, and New York, N. Y. Preparation for waterproofing and preserving automobile-tops and similar articles. No. 134,771; Sept. 14; v. 278; p. 359.

Procter and Gamble Company, The, Cincinnati, Ohio. Paper-pulp. No. 134,772; Sept. 14; v. 278; p. 359.

Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 134,773; Sept. 14; v. 278; p. 359.

Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 135,047; Sept. 21; v. 278; p. 534.

Procter and Gamble Company, The, Cincinnati, Ohio. Paper-pulp. No. 135,304; Sept. 28; v. 278; p. 704.

Progressive Cigar Corporation of Philadelphia, Philadelphia, Pa. Cigars. No. 134,774; Sept. 14; v. 278; p. 359.

Putney, Stephen, Shoe Co., Richmond, Va. Boots and shoes of leather. No. 135,305; Sept. 28; v. 278; p. 704.

Pyrene Manufacturing Company, New York, N. Y. Cleaning material, particularly for fabrics. No. 135,306; Sept. 28; v. 278; p. 704.

Quaker City Shirt Manufacturing Company, The, Norristown, Pa. Shirts, (dress, negligée, and work,) collars and cuffs. No. 134,775; v. 278; p. 359.

Quinn, Frank O., Omaha, Nebr. Washing-powder. No. 135,048; Sept. 21; v. 278; p. 534.

Radior Co. Ltd. of London, New York, N. Y. Forehead and under-chin pads. No. 134,776; v. 278; p. 359.

Rainford, Jacob A., Bergenfield, N. J. Undervests, storm-vests, padded and quilted vests and jackets. No. 135,049; Sept. 21; v. 278; p. 534.

Ramey Mfg. Company, The, Columbus, Ohio. Electric vacuum-cleaners. No. 135,308; Sept. 28; v. 278; p. 704.

Randall-McLoughlin Co., Seattle, Wash. Agricultural seeds—namely, grain and grass seeds, nursery stock, &c. No. 134,777; Sept. 14; v. 278; p. 359.

Ransom & Randolph Company, The, Toledo, Ohio. Local anesthetic, sodium phenique compound, &c. No. 134,528; Sept. 7; v. 278; p. 160.

Reardon, John J., Philadelphia, Pa. Ginger-ale, ginger-beer, sarsaparilla, and club-soda. No. 135,050; Sept. 21; v. 278; p. 534.

Reflex Auto Accessory Co., Auburn, Ind. Brake-band lining. No. 135,052; Sept. 21; v. 278; p. 534.

Regina Company, The, New York, N. Y. Electric vacuum-cleaners, and parts thereof. No. 135,051; Sept. 21; v. 278; p. 534.

Rein Drive Tractors, Limited, Toronto, Ontario, Canada. Tractors. No. 135,053; Sept. 21; v. 278; p. 534.

Reliance Fur Dyeing, Inc., Paterson, N. J. Raw furs. No. 134,778; Sept. 14; v. 278; p. 359.

Retona Products Company, Dayton, Ohio. Laxative tablets and tonic. No. 134,779; Sept. 14; v. 278; p. 359.

Rhodes Metallic Packing Co., Inc., Shreveport, La. Metallic rod-packing. No. 134,529; Sept. 7; v. 278; p. 160.

Rhodes Metallic Pack. Co. Inc., Shreveport, La. Metallic rod-packing. No. 135,054; Sept. 21; v. 278; p. 534.

Rice-Stix Dry Goods Company, St. Louis, Mo. Trunks, traveling-bags, suitcases, and brief-cases. No. 134,780; Sept. 14; v. 278; p. 359.

Richards, Arthur W., West Hartford, Conn. Compounds used for cleansing, polishing, and burnishing the surfaces of metal and glass. No. 135,055; Sept. 21; v. 278; p. 534.

Richardson Corporation, Rochester, N. Y. Non-alcoholic maltless syrup and beverage made therefrom. No. 134,781; Sept. 14; v. 278; p. 359.

Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. No. 134,530; Sept. 7; v. 278; p. 160.

Rifkin, Abraham, Wilkes-Barre, Pa. Work-shirts and overalls. No. 135,056; Sept. 21; v. 278; p. 534.

Ripley, Edward, & Son., Ltd., Bradford, England. Piece goods. 135,309; Sept. 28; v. 278; p. 704.

Ritchie-Wertz Manufacturing Company, The, Dayton, Ohio. Toy airplanes. No. 135,057; Sept. 21; v. 278; p. 534.

Ritter Bros., New York, N. Y. Ladies' handbags. No. 134,782; Sept. 14; v. 278; p. 359.

Ritter Bros., New York, N. Y. Ladies' handbags. No. 135,058; Sept. 21; v. 278; p. 534.

Ritzwoller & Co., Inc., New York, N. Y. Children's dresses. No. 134,783; Sept. 14; v. 278; p. 359.

Riverside Mill Company, Reno, Nev. Wheat-flour. No. 135,310; Sept. 28; v. 278; p. 704.

Robertson, James, & Sons, Preserve Manufacturers, Limited, Paisley, Scotland. Marmalade. No. 135,311; Sept. 28; v. 278; p. 704.

Robischon, E. W., Inc., New York, N. Y. Men's and women's hosiery of wool, cotton, silk, &c. No. 135,312; Sept. 28; v. 278; p. 704.

Rochester Germicide Company, Rochester, N. Y. Disinfectants, insecticides, and germicides. No. 134,531; Sept. 7; v. 278; p. 160.

Rogers & Madison Trunk Corporation, Petersburg, Va. Trunks, suitcases, traveling-bags, and handbags. No. 134,784; Sept. 14; v. 278; p. 359.

Rose, Leon R., New Haven, Conn. Powder-puff. No. 135,062; Sept. 21; v. 278; p. 534.

Rosenbaum Brothers, Salt Lake City, Utah. Overalls for men and boys. No. 134,785; Sept. 14; v. 278; p. 359.

Rosenblum & Kern, New York, N. Y. Memorandum-books. No. 135,063; Sept. 21; v. 278; p. 534.

Rosin & Turpentine Export Company, New York, N. Y., and Savannah, Ga. Rosin. Nos. 135,313–24; Sept. 28; v. 278; p. 704.

Rossendale-Reddaway Belting & Hose Co., Newark, N. J. Canvas belting. No. 134,532; Sept. 7; v. 278; p. 161.

Rossman Brothers, New York, N. Y. Cotton goods in the piece and cotton and silk goods in the piece. No. 135,325; Sept. 28; v. 278; p. 705.

Rothschild, Sig. I., New York, N. Y. Dolls and toys. No. 135,326; Sept. 28; v. 278; p. 705.

Rub-Tex Organization Company, Kenton, Ohio. Fibrous rubber floor-board mats, running-board and step mats for automobiles. No. 134,533; Sept. 7; v. 278; p. 161.

Rueping, Fred, Leather Co., Fond du Lac, Wis. Shoe and glove leathers. No. 135,327; Sept. 28; v. 278; p. 705.

Rumford Chemical Works, Providence, R. I. Baking-powder. No. 134,786; Sept. 14; v. 278; p. 359.

Russia Cement Company, Gloucester, Mass. Polish, cleaning, and preserving preparations for stoves. No. 134,787; Sept. 14; v. 278; p. 359.

Safety Equipment Company, The, Cleveland, Ohio. Trestles of the portable variety. No. 134,788; Sept. 14; v. 278; p. 359.

Safronik, Teddey, Buchanan, Saskatchewan, Canada. Salve for bruises, pimples, eczema, and all skin diseases. No. 134,789; Sept. 14; v. 278; p. 359.

St. Louis Rubber Cement Co., St. Louis, Mo. Graphite, soapstone, and mica. No. 135,080; Sept. 21; v. 278; p. 535.

Salisbury & Satterlee Co., Minneapolis, Minn. Mattresses. No. 134,790; Sept. 14; v. 278; p. 359.

Salisbury & Satterlee Co., Minneapolis, Minn. Mattresses, metal beds, couches, cribs, &c. No. 134,791; Sept. 14; v. 278; p. 359.

Salzer, John A., Seed Co., La Crosse, Wis. Garden, field, and flower seeds. No. 134,792; Sept. 14; v. 278; p. 360.

Samstag & Hilden Bros., New York, N. Y. Hand-mirrors, bonnet-mirrors, and picture-frames. No. 134,793; Sept. 14; v. 278; p. 360.

Samstag and Hilder Bros., New York, N. Y. Combs in shell, &c. No. 135,064; Sept. 21; v. 278; p. 535.

Sands Manufacturing Company, The, Cleveland, Ohio. Gas, gasolene, and kerosene water heaters, &c. No. 134,794; Sept. 14; v. 278; p. 360.

San Fernando Canning Co., San Fernando, Calif. Canned peaches and apricots. No. 134,534; Sept. 7; v. 278; p. 161.

Sanibrass Corporation, The, Brooklyn, N. Y. Water-cooler. No. 135,328; Sept. 28; v. 278; p. 705.

Saphil Manufacturing Corporation, Chicago, Ill. Metal-working grinding-machines and parts thereof. No. 135,329; Sept. 28; v. 278; p. 705.

Sawyer, Jesse E., Quincy, Ill. Self-vulcanizing patches for inner tubes of automobile-tires, &c. No. 134,535; Sept. 7; v. 278; p. 161.

Scanlon, Joseph, Brooklyn, N. Y. Toy horse. No. 134,536; Sept. 7; v. 278; p. 161.

Schisa, Ettore M., Syracuse, N. Y., and Lebanon, Pa. Macaroni. No. 134,537; Sept. 7; v. 278; p. 161.

Schneider, Abraham B., New York, N. Y. Imitation fur. No. 134,796; Sept. 14; v. 278; p. 360.

Schoenfeld, Henry, New York, N. Y. Saffron. No. 134,797; Sept. 14; v. 278; p. 360.

Schoening, M. E., Co., Inc., New York, N. Y. Musical-instrument strings. Nos. 135,330–1; Sept. 28; v. 278; p. 705.

Schoonmaker, F. W., Incorporated, New York, N. Y. Paste for skin irritations, bites, and poisonings. No. 134,798; Sept. 14; v. 278; p. 360.

Schweppes, Limited, London, England. Non-alcoholic non-cereal maltless flavored beverages. No. 134,538; Sept. 7; v. 278; p. 161.

Schweppes Limited, London, England. Manufactured medicinal compound comprising an aperient water. No. 135,065; Sept. 21; v. 278; p. 535.

Schwob, Adolphe, Inc., New York, N. Y. Watches and watch-movements. No. 135,066; Sept. 21; v. 278; p. 535.

Scientific Materials Company, Pittsburgh, Pa. Optical apparatus for magnifying and viewing stereoscopic, transparent, and photographic plates. No. 135,332; Sept. 28; v. 278; p. 705.

Scott & Bowne, Bloomfield, N. J. Cod-liver oil. No. 135,333; Sept. 28; v. 278; p. 705.

Scott, Lucinda, Wichita, Kans. Medicinal preparation for the treatment of cholera in hogs and poultry. No. 135,067; Sept. 21; v. 278; p. 535.

Scrandrett, Leslie A., Sydney, New South Wales, Australia. Hides, skins, and raw furs. No. 134,795; Sept. 14; v. 278; p. 360.

Scranton Distributing and Mfg. Co., Scranton, Pa. Bitter-wine tonic for medicinal purposes. No. 135,068; Sept. 21; v. 278; p. 535.

Sears, John M., Fuquay Springs, N. C. Medical compounds for cuts, bruises, burns, sore throat, &c. No. 135,069; Sept. 21; v. 278; p. 535.

Sears, Roebuck and Co., Chicago, Ill. Women's hats. No. 134,799; Sept. 14; v. 278; p. 360.

Sears, Roebuck and Co., Chicago, Ill. Hats for children and misses. No. 134,800; Sept. 14; v. 278; p. 360.

Service Station Supply Co., Detroit, Mich. Battery-testers. No. 134,801; Sept. 14; v. 278; p. 360.

Shainberg & Eber, Memphis, Tenn. Women's and children's outer and under garments, &c. No. 135,070; Sept. 21; v. 278; p. 535.

Shapleigh Hardware Company, St. Louis, Mo. Flash-lights. No. 135,071; Sept. 21; v. 278; p. 535.

Sharkey, Alice M., Fond du Lac, Wis. Remedy for piles. No. 135,072; Sept. 21; v. 278; p. 535.

Sherman, Mae, Cleveland, Ohio. Liquid polish for furniture. No. 134,802; Sept. 14; v. 278; p. 360.

Shiman-Miller Manufacturing Company, Newark, N. J. Jewelry, not including watches. No. 134,803; Sept. 14; v. 278; p. 360.

Shuman, Frank G., Co., Chicago, Ill. Printed gummed labels. No. 134,539; Sept. 7; v. 278; p. 161.

Silkheart Mattress Co., Melbane, N. C. Mattresses. No. 134,804; Sept. 14; v. 278; p. 360.

Simmons Hardware Company, St. Louis, Mo. Padlocks, night-latches. No. 135,334; Sept. 28; v. 278; p. 705.

Sinclair Manufacturing Company, The, Toledo, Ohio. Powdered lye. Nos. 134,805–6; Sept. 14; v. 278; p. 360.

Sioris, Pantelis A., New York, N. Y. Weekly newspapers. No. 134,807; Sept. 14; v. 278; p. 360.

Sioux Candy Co., Sioux City, Iowa. Candy. No. 135,335; Sept. 28; v. 278; p. 705.

Sita, Mike, Tacoma, Wash. Leather-dressing for cleaning and polishing shoes. No. 135,073; Sept. 21; v. 278; p. 535.

Slazenger, Frank L., New York, N. Y. Tennis-rackets. No. 135,074; Sept. 21; v. 278; p. 535.

Smith, Charles H., Irvington, N. J., assignor to International Coal Products Corporation, Richmond, Va. Briquets made from coal. No. 134,808; Sept. 14; v. 278; p. 360.

Smith Edward L., New York, N. Y. Oils, fluids, and compounds used for waterproofing textile fabrics, &c. No. 135,336; Sept. 28; v. 278; p. 705.

Smith, Geo. W., McKinney, Tex. Men's suits. No. 135,337; Sept. 28; v. 278; p. 705.

Smith, Kline & French Co., Philadelphia, Pa. Aspirin. No. 134,540; Sept. 7; v. 278; p. 161.

Soby, John F., New York, N. Y. Writing-ink in powdered form. No. 135,338; Sept. 28; v. 278; p. 705.

Société Rodier, Paris, France. Velvet, wool, and cashmere piece goods. No. 135,059; Sept. 21; v. 278; p. 534.

Société Rodier, Paris, France. Woolen and cotton piece goods. No. 135,060; Sept. 21; v. 278; p. 534.

Société Rodier, Paris, France. Velvet, wool, and cashmere piece goods. No. 135,061; Sept. 21; v. 278; p. 534.

Society of Chemical Industry in Basle, Basel, Switzerland. Phonographic developers. No. 135,075; Sept. 21; v. 278; p. 535.

Solomon, Maurice, Cincinnati, Ohio. Liquid cleansing compound for removing grease-spots from fabrics. No. 134,809; Sept. 14; v. 278; p. 360.

Somma Shops, Inc., New York, N. Y. Furniture. No. 134,810; Sept. 14; v. 278; p. 360.

Sonn Brothers Company, New York, N. Y. Dyestuffs. No. 134,541; Sept. 7; v. 278; p. 161.

Sonn Brothers Company, New York, N. Y. Dyestuffs. Nos. 134,811–6; Sept. 14; v. 278; p. 360.

Sons and Daughters of Levi, Dothan, Ala. Medicine for treatment of mumps, measles, cholera, and liver trouble in hogs. No. 134,817; Sept. 14; v. 278; p. 360.

Sormani, Egbert J., Brooklyn, N. Y. Preparations for diseases of the nose and throat. No. 135,339; Sept. 28; v. 278; p. 705.

Spalding, Buren H., Los Angeles, Calif. Vegetable compound in the form of a tablet used as an aid to the blood. No. 135,076; Sept. 21; v. 278; p. 535.

Spanish American Fruit Company, Inc., Plainfield, N. J., and New York, N. Y. Grape-fruit, pineapples, and grape-fruit marmalade. No. 135,340; Sept. 28; v. 278; p. 705.

Spencer Carroll Company, Dallas, Tex. Inner tubes for pneumatic tires. No. 134,542; Sept. 7; v. 278; p. 161.

Spokane Meelmolens (Spokane Flour Mills), Amsterdam, Holland, and Pendleton, Oreg. Wheat-flour. No. 135,341; Sept. 28; v. 278; p. 705.

Standard Oil Company, New York, N. Y. Isopropyl alcohol. No. 134,818; Sept. 14; v. 278; p. 360.

Standard Tobacco Company, Inc., New York, N. Y. Cigarettes. No. 134,819; Sept. 14; v. 278; p. 360.

Standard Varnish Works, New York, N. Y. Dry, ready-mixed, and paste paints and enamel paints. No. 135,077; Sept. 21; v. 278; p. 535.

Stanford Seed Co., Inc., The, Binghamton, Buffalo, and Albany, N. Y. Seeds. No. 134,820; Sept. 14; v. 278; p. 360.

Stanley & Griffin, assignors to Stanley-Griffin, Lowell, Mass. Preparation for treatment of consumption and tuberculosis. No. 134,670; Sept. 14; v. 278; p. 356.

Star Binding & Trimming Co., Inc., The, New York, N. Y. Glove-binding. No. 135,078; Sept. 21; v. 278; p. 535.

States Company, The, Hartford, Conn. Electrical transformers. No. 134,821; Sept. 14; v. 278; p. 361.

Stearyte Co., The, New York, N. Y. Stearate of zinc, as employed by manufacturers of toilet preparations. No. 135,079; Sept. 21; v. 278; p. 535.

Steell, Edgar M., assignor to Porcupine Manufacturing Company, Spokane, Wash. Automobile-tire patches and inner liners. No. 134,822; Sept. 14; v. 278; p. 361.

Sterling Shoes Corporation, Buffalo, N. Y. Leather fabrics and combination of leather and fabric boots and shoes. No. 135,342; Sept. 28; v. 278; p. 705.

Stitzel, E. E., & Son., Philadelphia, Pa. Automobile and furniture polish. No. 134,823; Sept. 14; v. 278; p. 361.

Straub, Gustav L., New York, N. Y. Natural prepared floral wreath. No. 134,824; Sept. 14; v. 278; p. 361.

Strayhorn, Oscar P., St. Louis, Mo. Pharmaceutical preparation used in dressing the hair and cleansing the scalp. No. 135,081; Sept. 21; v. 278; p. 535.

Stromberg, Benjamen, New York, N. Y. Men's soft silk collars. No. 134,825; Sept. 14; v. 278; p. 361.

Strong, Carlisle & Hammond Company, The, Cleveland, Ohio. Annealing, tempering, forging, case-hardening, and melting metallurgical furnaces. No. 134,826; Sept. 14; v. 278; p. 361.

Suffolk Brewing Company, Boston, Mass. Cereal malt beverage. Nos. 135,082–3; Sept. 21; v. 278; p. 535.

Sunbeam Chemical Company, Chicago, Ill. Bluing. Nos. 135,084–5; Sept. 21; v. 278; p. 535.

Sunderman Corporation, Newburgh, N. Y. Carbureters. No. 135,343; Sept. 28; v. 278; p. 705.

Sunderland, W. C., Norwood, Pa. Salve for burns, bruises, bunions, cuts, &c. No. 134,543; Sept. 7; v. 278; p. 161.

Super-Glass Co., The, Philadelphia, Pa. Sheet-glass. No. 135,086; Sept. 21; v. 278; p. 535.

Superior Feed Co., The, Memphis, Tenn. Stock, dairy, and poultry feed. No. 135,344; Sept. 28; v. 278; p. 705.
Supertone Talking Machine Co., Inc., New York, N. Y. Talking-machines and parts thereof. No. 135,087; Sept. 21; v. 278; p. 535.
Symonds, Frank P., Salem, Mass. Witch-hazel, disinfectant, insect-exterminators, fortified ammonia. No 135,088; Sept. 21; v. 278; p. 535.
T. D. S. Co., The, Pasadena, Calif. Blood-purifier in the form of a liquid solution. No. 135,089; Sept. 21; v. 278; p. 535.
Taylor, Winfield S., Trenton, N. J. Medicinal preparation for the treatment of coughs, croup, and whooping-cough No. 135,345; Sept. 28; v. 278; p. 705.
Tedford, W. L., Little Rock, Ark. Tires, tubes, and casing-patch. No. 134,827; Sept. 14; v. 278; p. 361.
Tel-O-Tone Phonograph Company. (See The Western News Company, assignor.)
Thornton, Leslie M., Kansas City, Mo. Polish for the finish on pianos, &c. No. 134,544; Sept. 7; v. 278; p. 161.
Tiffany and Company, New York, N. Y. Electric lamps, candelabra, candlesticks, &c. Nos. 134,828–9; Sept. 14; v. 278; p. 361.
Tiffany & Company, New York, N. Y. Cleaning and polishing materials for jewelry and metal ware. No. 135,090; Sept. 21; v. 278; p. 535.
Tiffany & Company, New York, N. Y. Canes, parasols, and umbrellas. No. 135,091; Sept. 21; v. 278; p. 535.
Tiffin Products, Inc., New York, N. Y. Candy. No. 134,545; Sept. 7; v. 278; p. 161.
Tiffin Products, Inc., Long Island, N. Y. Candies. No. 135,092; Sept. 21; v. 278; p. 535.
Tilden Produce Co., St. Paul, Minn. Fresh eggs. No. 134,546; Sept. 7; v. 278; p. 161.
Tilleman, H. George, New York, N. Y. Carbon-papers and ink-ribbons. No. 135,093; Sept. 21; v. 278; p. 535.
Toledo Enameled Wire Products Co., The, Toledo, Ohio. Wire, particularly magnet-wire. No. 134,830; Sept. 14; v. 278; p. 361.
Torrington Company, The, Torrington, Conn. Electric vacuum-cleaners. No. 134,864; Sept. 14; v. 278; p. 364.
Torrington Company, The, Torrington, Conn. Phonograph-needles. No. 135,187; Sept. 21; v. 278; p. 540.
Torrington Company, The, Torrington, Conn. Pedals for bicycles, tricycles, motorcycles, &c. No. 135,375; Sept. 28; v. 278; p. 708.
Toy Tinkers, The, Evanston, Ill. Dolls, figure toys, rattles, duck-games, &c. No. 135,346; Sept. 28; v. 278; p. 705.
Traders' Box & Lumber Company, Rochester, N. Y. Cribbeds. No. 134,831; Sept. 14; v. 278; p. 361.
Troy Dry Goods Co. Inc., Troy, N. Y. Groceries. No. 135,347; Sept. 28; v. 278; p. 705.
True, Dr. J. F., & Co., Inc., Auburn, Me. Vermifuge and remedies for indigestion, biliousness, headache, colds, &c. No. 134,832; Sept. 14; v. 278; p. 361.
Tulchinsky, Benjamin, Chicago, Ill. Hats, caps, and neckwear. No. 135,348; Sept. 28; v. 278; p. 705.
Turner, Catherine C., Spokane, Wash. Talking-board or question-answering device. No. 135,349; Sept. 28; v. 278; p. 706.
Tuttle, W. E., Co., The, Rochester, N. Y. Shoes of leather and a combination of leather and fabric. No. 134,833; Sept. 14; v. 278; p. 361.
Tyler, G. H., & Co., Cincinnati, Ohio. Belts for supporting wearing-apparel. No. 134,547; Sept. 7; v. 278; p. 161.
U and I Toy Company, The, Lorain, Ohio. Children's toy vehicle. No. 135,350; Sept. 28; v. 278; p. 706.
U. S. Fire Extinguisher Co., Syracuse, N. Y. Fire-extinguishing compounds. No. 135,096; Sept. 21; v. 278; p. 535.
U. S. Garter & Suspender Company, Chicago, Ill. Garters, hose-supporters, armbands, and suspenders. No. 135,352; Sept. 28; v. 278; p. 706.
U. S. Pharmaceutical Manufacturing Company, New York, N. Y. Cough medicine. No. 134,524; Sept. 7; v. 278; p. 160.
Underwood Typewriter Company, New York, N. Y. Typewriting machine and parts. No. 134,865; Sept. 14; v. 278; p. 364.
Unexcelled Manufacturing Company, New York, N. Y. Fireworks. No. 135,094; Sept. 21; v. 278; p. 535.
Union Special Machine Company, Chicago, Ill. Sewing-machine needles. No. 135,351; Sept. 28; v. 278; p. 706.
United Drug Company, Boston, Mass. Talcum and chafing powder, zinc-stearate talc; worm, colic, and cough remedy, &c. No. 134,548; Sept. 7; v. 278; p. 161.
United Drug Company, Boston, Mass. Smoking-tobacco. No. 134,834; Sept. 14; v. 278; p. 361.
United Drug Company, Boston, Mass. Preparation having deodorant, antiseptic, and perspiration-absorbent properties. No. 134,835; Sept. 14; v. 278; p. 361.
United Products & Sales Corporation, San Francisco, Calif. Lubricating oils and greases. No. 134,836; Sept. 14; v. 278; p. 361.
United States Drug & Chemical Co., The, Cleveland, Ohio. Toilet preparations, hair-tonics, face and shaving lotions, dentifrices, &c. No. 134,549; Sept. 7; v. 278; p. 161.
United States Graphite Company, The, Saginaw, Mich. Mining-machine lubricant. No. 135,095; Sept. 21; v. 278; p. 535.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Arctics. No. 134,837; Sept. 14; v. 278; p. 361.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Slippers made of felt and felt and leather. No. 135,353; Sept. 28; v. 278; p. 706.
United States Wax Corporation, Brooklyn, N. Y. Night-lights. No. 135,354; Sept. 28; v. 278; p. 706.
Universal Remedies Company, Duluth, Minn. Liniment for rheumatism, stiff joints, cuts, bruises, toothache, chilblains, &c. No. 134,551; Sept. 7; v. 278; p. 161.
Universal Theatres Concession Co., Chicago, Ill. Candy. No. 134,552; Sept. 7; v. 278; p. 161.
Valle, Ballina y Fernandez, S. A., Villaviciosa, Spain. Champagne cider. No. 135,097; Sept. 21; v. 278; p. 536.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Liquid preparation for surface finish in the nature of a varnish. No. 134,838; Sept. 14; v. 278; p. 361.
Vancouver Drug Company, Limited, Vancouver, British Columbia, Canada. Preparations for the relief of headaches and neuralgia. No. 134,553; Sept. 7; v. 278; p. 161.
Van Range, John, Co., The, Cincinnati, Ohio. Serving-tables. No. 134,839; Sept. 14; v. 278; p. 361.
Veratone Phonograph Co., The, Marietta, Ohio. Phonograph-cabinets. No. 134,840; Sept. 14; v. 278; p. 361.
Vesper, Anna M., San Francisco, Calif. Automobile-polish. No. 134,841; Sept. 14; v. 278; p. 361.
Victory Bag & Paper Co., Chicago, Ill. Paper bags. No. 135,098; Sept. 21; v. 278; p. 536.
Victory Bag & Paper Co., Marinette, Wis., and Chicago, Ill. Paper bags. No. 135,099; Sept 21; v. 278; p. 536.
Visible Gasoline Filter Company, Chicago, Ill. Gasoline-filters. No. 135,355; Sept. 28; v. 278; p. 706.
Wals, Mary, Newark, N. J. Medicinal tonic. No. 135,100; Sept. 21; v. 278; p. 536.
Waldes & Co., Prague, Bohemia. Placket and glove fasteners, knitting and crochet needles, buttons, thimbles, &c. Nos. 134,554–5; Sept. 7; v. 278; p. 161.
Walker-Matteson Company, Joliet, Ill. Jar-rubbers. No. 134,842; Sept. 14; v. 278; p. 361.
Wall Paper Manufacturers Ltd., The, London, England. Paper hangings. No. 134,556; Sept. 7; v. 278; p. 161.
Wallace & Freed Incorporated, Seattle, Wash. Songs, sheet-music, &c. No. 134,843; Sept. 14; v. 278; p. 361.
Wallace Roberts Canning Company, Woodstown, N. J. Jellies, fruit jams, table preserves, canned fruits, and vegetables. No. 135,188; Sept. 21; v. 278; p. 540.
Wallace & Smith Company, The, La Porte, Ind. Blankets and robes. No. 135,356; Sept. 28; v. 278; p. 706.
Walton, Thompson G., Chicago, Ill. Preparation for a medicinal tonic for treatment of stomach, kidneys, liver, and bowels. No. 134,559; Sept. 7; v. 278; p. 161.
Ward Baking Company, New York, N. Y. Cakes. No. 134,844; Sept. 14; v. 278; p. 361.
Wasserman, Jesse H., New York, N. Y. Piston-rings. No. 134,557; Sept. 7; v. 278; p. 161.
Waterman, Mabel, New Rochelle, N. Y. Toy animals. No. 135,101; Sept. 21; v. 278; p. 536.
Waters, Cleveland L., Seattle, Wash. Hair-restorer. No. 134,558; Sept. 7; v. 278; p. 161.
Waters, Horace, & Co., New York, N. Y. Pianos. No. 134,866; Sept. 14; v. 278; p. 364.
Watkins, Edwin D., Memphis, Tenn. Toilet preparation—namely, skin-cream. No. 135,102; Sept. 21; v. 278; p. 536.
Watson, Mamie E., Jackson, Miss. Hair-grower. No. 134,845; Sept. 14; v. 278; p. 361.
Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Underwear for men and women. No. 134,846; Sept. 14; v. 278; p. 361.
Weinberg, L., Baking Co., Cincinnati, Ohio. Bread. No. 134,560; Sept. 7; v. 278; p. 161.
Welch, E. M., Cleveland, Ohio. General medicinal tonic. No. 135,103; Sept. 21; v. 278; p. 536.
Welisch, W. T., & Co., Inc., San Francisco, Calif. Rice. Nos. 135,104–58; Sept. 21; v. 278; pp. 536–7.
Welsher, Samuel I., New York, N. Y. Soap flakes. No. 135,159; Sept. 21; v. 278; p. 537.
Wertheimer, Samuel M., New York, N. Y. Men's cotton, mercerized, and silk hosiery. No. 135,160; Sept. 21; v. 278; p. 537.
Western News Company, The, assignor to Tel-O-Tone Phonograph Company, Chicago, Ill. Phonographs and phonograph-cabinets. No. 135,161; Sept. 21; v. 278; p. 537.
Western Wheeled Scraper Company, Aurora, Ill. Dump, spreader, and flat cars and dump-wagons. No. 135,162; Sept. 21; v. 278; p. 537.
Whitaker Paper Company, The, Cincinnati, Ohio. Wrapping-paper. No. 135,163; Sept. 21; v. 278; p. 537.
Whitaker Paper Company, The, Cincinnati, Ohio. Printing-paper. No. 135,164; v. 278; p. 537.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Paper and stationery. No. 135,165; Sept. 21; v. 278; p. 537.
Whitman, Harry M., Canton, Pa. Unitary electric-lighting plants and parts thereof. No. 135,359; Sept. 28; v. 278; p. 706.
Wichita Motors Company, Wichita Falls, Tex. Tractors. No. 135,376; Sept. 28; v. 278; p. 708.

Wilbur White Chemical Company, The, Owego, N. Y. Photographic developer. No. 135,166; Sept. 21; v. 278; p. 537.
Wilcox & White Co., The, Meriden, Conn. Mechanical music-playing instruments and music-rolls therefor. No. 134,847; Sept. 14; v. 278; p. 361.
Wilkin & Adler, New York, N. Y. Jersey knit cloth in the piece. No. 135,360; Sept. 28; v. 278; p. 706.
William, Charles, Stores Inc., The, Brooklyn, N. Y. Floor-covering in the nature of linoleum. No. 135,167; Sept. 21; v. 278; p. 537.
Williams, C. J., Chicago, Ill. Hair-tonic. No. 135,361; Sept. 28; v. 278; p. 706.
Williams, Connor O., Wichita, Kans. Automobile-tires and inner tubes of rubber. No. 135,168; Sept. 21; v. 278; p. 538.
Williams, W. Reed, (1908) Limited, London, England. Articles of jewelry. No. 134,848; Sept. 14; v. 278; p. 361.
Wilson, Harold G., Titusville, Fla. Medicine used in the treatment of headache, neuralgia, rheumatism, &c. No. 134,849; Sept. 14; v. 278; p. 361.
Wing, John F., Maywood, Ill. Spark-plug intensifiers. No. 134,850; Sept. 14; v. 278; p. 361.
Wirt, John D., Frankfort, Ind. Cereal foods. No. 134,867; Sept. 14; v. 278; p. 364.
Wisconsin Shoe Company, Milwaukee, Wis. Athletic shoes made in the various combinations. No. 134,851; Sept. 14; v. 278; p. 361.
Wise, Shaw & Feder Company, The, Cincinnati, Ohio. Shoes. No. 134,852; Sept. 14; v. 278; p. 362.
Wiss, Albert, Peekskill, N. Y. Watches, watch-movements, watchcases, and parts thereof. No. 135,362; Sept. 28; v. 278; p. 706.
Wolverine Supply & Mfg. Co., Pittsburgh, Pa. Automatic sand-operated mechanical toys and toy dishes. No. 135,363; Sept. 28; v. 278; p. 706.
Wood, George H., Boston, Mass. Liniment used externally for rheumatism, bruises, colds, &c. No. 134,853; Sept. 14; v. 278; p. 362.
Wood, J. W., Detroit, Mich. Medicine for the treatment of tuberculosis, &c. No. 135,169; Sept. 21; v. 278; p. 538.
Woodard, William H., Wilson, N. C. Confectionery. No. 135,170; Sept. 21; v. 278; p. 538.
Woolley, George W., Pasadena, Calif. Liquid fuel for internal-combustion engines. No. 135,364; Sept. 28; v. 278; p. 706.
Worcester Felt Goods Company, Worcester, Mass. Slippers. No. 135,365; Sept. 28; v. 278; p. 706.
Wright & Lawrence, Chicago, Ill. Preparation for the treatment of certain named diseases. No. 134,854; Sept. 14; v. 278; p. 362.
Yeager, H. W., & Co., Philadelphia, Pa. Electrically-operated vacuum-creating apparatus for player-pianos. No. 135,171; Sept. 21; v. 278; p. 538.
Ynetema, Theodore J., Scranton, Pa. Scalp remedies, a liquid preparation used in treatment of the hair. No. 135,172; Sept. 21; v. 278; p. 538.
Young, Chas. W., & Co., Philadelphia, Pa. Soap flakes. No. 135,173; Sept. 21; v. 278; p. 538.
Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Iron and steel pipe, wire, and nails. No. 134,868; Sept. 14; v. 278; p. 364.
Zalkind, Philip, New York, N. Y. Paper boxes and cartons. No. 134,855; Sept. 14; v. 278; p. 362.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allen Corporation, The, New York, N. Y. "Pronto." (For Glass Containers Containing a Fire-Extinguishing Fluid.) No. 22,141; Sept. 21; v. 278; p. 541.
Atlasette Gloves, Inc., New York, N. Y. "Atlasette, 'The Glove I Love.'" (For Gloves.) No. 22,142; Sept. 21; v. 278; p. 541.
Basso Co., The, Chicago, Ill. "Asiago Basso." (For Cheese.) No. 22,143; Sept. 21; v. 278; p. 541.
Beech-Nut Packing Company, Canajoharie, N. Y. "Caramels." (For Caramels.) No. 22,093; Sept. 7; v. 278; p. 162.
Bigwood, Benjamin F., Everett and Boston, Mass. "Prohibition Ginger." (For a Preparation or Compound for Cramps, Chills, &c.) No. 22,144; Sept. 21; v. 278; p. 541.
Board of Education of Louisville, Kentucky, Louisville, Ky. "Cream of Manila Practice Paper, Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) No. 22,094; Sept. 7; v. 278; p. 162.
Board of Education of Louisville, Kentucky, Louisville, Ky. "Grey Manila Practice Paper, Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) No. 22,095; Sept. 7; v. 278; p. 162.
Bosack, J. H., Mfg. Co., Wilkes-Barre, Pa. "Bosack's Pelinko Horke Vino." (For a Medicinal Tonic.) No. 22,100; Sept. 14; v. 278; p. 365.
California Central Creameries, San Francisco, Calif. "Golden State." (For Powdered Skim-Milk.) No. 22,101; Sept. 14; v. 278; p. 365.
California Soda Products Company, San Francisco, Calif. "Snow Crystals." (For Instantaneous Water-Softener.) No. 22,146; Sept. 21; v. 278; p. 541.
Chappell, Alexander W., Red Bank, N. J. "Suculine." (For General Tonic for Poultry.) No. 22,147; Sept. 21; v. 278; p. 541.
Corona Typewriter Company, Inc., Groton, N. Y. "The Personal Writing Machine." (For Typewriting-Machines.) No. 22,102; Sept. 14; v. 278; p. 365.
Crooke, John J., Company, The, New York, N. Y., and Chicago, Ill. "Indian Ink." (For Ink.) No. 22,103; Sept. 14; v. 278; p. 365.
Emerick, Martin L., M. D., Lancaster, Pa. "Dr. Emerick's Peacherb Tablets, Fruit Herb and Vegetable Extracts and Dr. Emerick's Famous Laxative Base." (For Constipation, Biliousness, Dyspepsia, and Autotoxemia.) No. 22,104; Sept. 14; v. 278; p. 365.
Emerick, Martin L., M. D., Lancaster, Pa. "Dr. Emerick's Peacherb Laxative Tablets." (For a Medicine for Constipation.) No. 22,105; Sept. 14; v. 278; p. 365.
Federal Snap Fastener Corporation, New York, N. Y. "Harmony Forget-Me-Not Snaps." (For Snap-Fasteners.) No. 22,148; Sept. 21; v. 278; p. 541.
Finkelman, George A., Revere, Mass. "George's Cre-Me-Est Complexion Cream." (For a Container for Medicated Cold-Cream.) No. 22,106; Sept. 14; v. 278; p. 365.
Goldberg, David N., Chicago, Ill. "Grapette." (For Beverage.) No. 22,149; Sept. 21; v. 278; p. 541.
Greenmount Cigar Company, The, Brooklyn, N. Y. "Garcia Silveria." (For Cigars.) No. 22,107; Sept. 14; v. 278; p. 365.
Hall, Peter, Pasadena, Calif. "Gyft Chocolate from California." (For Boxes Containing Chocolates.) No. 22,150; Sept. 21; v. 278; p. 541.
Hoover, Roy H., Freeport, Ill. "Plantlife." (For a Fertilizer Compound.) No. 22,108; Sept. 14; v. 278; p. 365.
Howard, R. S. Company, New York, N. Y. "Player Action Par Excellence." (For Actions for Player-Pianos.) No. 22,151; Sept. 21; v. 278; p. 541.
Isaacson, Joseph R., Chicago, Ill. "Cuban Grown." (For Cigars.) No. 22,109; Sept. 14; v. 278; p. 365.
Jackson Brewing Company, New Orleans, La. "Jax." (For Cereal Beverages.) No. 22,152; Sept. 21; v. 278; p. 541.
Kordick, Peter Company, Chicago, Ill. "The Original Apollo." (For Cigars.) No. 22,110; Sept. 14; v. 278; p. 365.
Lautz Bros. & Co., Buffalo, N. Y. "Queen Anne Soap Powder." (For Soap Powder.) No. 22,111; Sept. 14; v. 278; p. 365.
Lautz Bros. Co., Buffalo, N. Y. "Queen Anne Scourer." (For a Scouring Preparation.) No. 22,112; Sept. 14; v. 278; p. 365.
Laytin, Ben, Omaha, Nebr. "Cowhide." (For Overalls.) No. 22,113; Sept. 14; v. 278; p. 365.
Lee, L. H., Elmhurst, Ill. "Oriental." (For Shampoo.) No. 22,155; Sept. 21; v. 278; p. 541.
Leoffler Food Products Co., Inc., Washington, D. C. "Dono the Square Donut." (For Doughnuts.) No. 22,114; Sept. 14; v. 278; p. 365.
Lewis, William W., Seattle, Wash. "Uneek Salad Dressing." (For Containers Containing Salad-Dressing.) No. 22,115; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Picture Builder No. 2." (For Educational Playthings—Namely, Picture-Builders.) No. 22,116; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Picture Builder No. 3." (For Educational Playthings—Namely, Picture-Builders.) No. 22,117; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 41." (For Educational Playthings—Namely, Design-Builders.) No. 22,118; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 31." (For Educational Playthings—Namely, Design-Builders.) No. 22,119; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 22." (For Educational Playthings — Namely, Design-Builders.) No. 22,120; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 11." (For Educational Playthings—Namely, Design-Builders.) No. 22,121; Sept. 14; v. 278; p. 365.
Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 21." (For Educational Playthings—Namely, Design-Builders.) No. 22,122; Sept. 14; v. 278; p. 365.

Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 61." (For Educational Playthings—Namely, Design-Builders.) No. 22,123; Sept. 14; v. 278; p. 365.

Lorenzen, Chas. F., & Co., Chicago, Ill. "Purple Seal Playthings Design Builder No. 51." (For Educational Playthings—Namely, Design-Builders.) No. 22,124; Sept. 14; v. 278; p. 365.

Lorenzen, Chas. F. & Co., Chicago, Ill. "Purple Seal Playthings." (For Educational Playthings—namely, Picture-Builders.) No. 22,153; Sept. 21; v. 278; p. 541.

Lorenzen, Chas. F. & Co., Chicago, Ill. "Purple Seal Playthings." (For Phantom Blocks 71.) No. 22,154; Sept. 21; v. 278; p. 541.

Mandabach, Peter A., Chicago, Ill. "Euco-Mint." (For Packages Containing Tooth-Paste.) No. 22,156; Sept. 21; v. 278; p. 541.

Magnus, Joseph E., Chicago, Ill. "Puritan Malt Extract." (For Cans Containing Malt Extract.) No. 22,125; Sept. 14; v. 278; p. 365.

Merrimac Packing Co., Lawrence, Mass. "Black-Iron." (For Stove-Polishes.) No. 22,126; Sept. 14; v. 278; p. 365.

Milwaukee Paper Box Company, Milwaukee, Wis. "My-O-My Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,127; Sept. 14; v. 278; p. 365.

Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Nougats." (For Boxes Containing Chocolate Candy.) No. 22,128; Sept. 14; v. 278; p. 365.

Milwaukee Paper Box Company, Milwaukee, Wis. "Old Style Chocolate Creams." (For Boxes Containing Chocolate Creams.) No. 22,129; Sept. 14; v. 278; p. 365.

Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Boxes Containing Chocolate-Covered Cherries.) No. 22,130; Sept. 14; v. 278; p. 365.

Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate of Yore." (For Boxes Containing Chocolate Candy.) No. 22,159; Sept. 21; v. 278; p. 541.

Milwaukee Paper Box Company, Milwaukee, Wis. "Her Candied Opinion." (For Boxes Containing Chocolate Candy.) No. 22,157; Sept. 21; v. 278; p. 541.

Milwaukee Paper Box Company, Milwaukee, Wis. "Shelley's Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,158; Sept. 21; v. 278; p. 541.

Mitchell, L., & Co., Chicago, Ill. "Magic Marvel." (For Packages Containing Washing-Powder.) No. 22,131; Sept. 14; v. 278; p. 365.

Newark Paraffine & Parchment Paper Co., Newark, N. J.; Columbus, Ohio, and New York, N. Y. "Dixie Chews." (For Candy.) No. 22,132; Sept. 14; v. 278; p. 365.

No-Leak-O Piston Ring Company, Baltimore, Md. "No-Leak-O Oilsealing." (For Piston-Rings.) No. 22,133; Sept. 14; v. 278; p. 365.

Pacific Guano & Fertilizer Co., The, Honolulu, Hawaii. "Gaviota" (Sea Gull.) (For Artificial Fertilizer.) No. 22,160; Sept. 21; v. 278; p. 541.

Pennsylvania Chocolate Company, Pittsburgh, Pa. "Zay-Tek." (For Chocolate and Cocoa.) No. 22,134; Sept. 14; v. 278; p. 365.

Permatite Manufacturing Company, Inc., Minneapolis, Minn. "Perma-Tite Valve Grinding Compound." (For Cans Containing a Valve-Grinding Compound.) No. 22,161; Sept. 21; v. 278; p. 541.

Permatite Manufacturing Company, Inc., Minneapolis, Minn. "Perma-Tite Household Patch." (For Packages Containing a Household Patch for Patching Rubber Goods.) No. 22,162; Sept. 21; v. 278; p. 541.

Peters Manufacturing Company, Boston, Mass., and New York, N. Y. "American Cloth." (For Cloth.) No. 22,163; Sept. 21; v. 278; p. 541.

Price Compound Company, Minneapolis, Minn. "Price's No Ice." (For Preservative Compound for Fish and Game.) No. 22,164; Sept. 21; v. 278; p. 541.

Rath, Olive H., Columbus, Ohio. "Hunter Malt." (For a Malt-Syrup.) No. 22,135; Sept. 14; v. 278; p. 365.

Rumple, Julius, Weston, Mo. "Home Pride." (For Flour.) No. 22,136; Sept. 14; v. 278; p. 366.

Sanlwax Paper Co., Kalamazoo, Mich. "Home Made." (For Bread.) No. 22,166; Sept. 21; v. 278; p. 541.

Sanlwax Paper Co., Kalamazoo, Mich. "Milk Maid." (For Bread.) No. 22,167; Sept. 21; v. 278; p. 541.

Sanlwax Paper Co., Kalamazoo, Mich. "Mothers." (For Bread.) No. 22,165; Sept. 21; v. 278; p. 541.

Shaw Family, Inc., The, San Jose, Calif. "Shaw's." (For Strawberry Jam.) No. 22,168; Sept. 21; v. 278; p. 541.

Shepherd & Cleveland, Chicago, Ill. "All In One Ointment." (For Ointment.) No. 22,169; Sept. 21; v. 278; p. 541.

Staehle, Louis L., Newark, N. J. "Essex Poisoned Wheat." (For Poisoned Food for Rats, Mice, &c.) No. 22,170; Sept. 21; v. 278; p. 541.

Sterling Pin Company, Derby, Conn. "Bird Design." (For Cartons Containing Hairpins.) No. 22,137; Sept. 14; v. 278; p. 366.

Sweet-Odor-Home Company, San Francisco, Calif. "Sweet-Odor-Home." (For Liquid Deodorant.) No. 22,171; Sept. 21; v. 278; p. 541.

Van Buskirk, Il., Seed Co., Rocky Ford, Colo. "Salmotinto." (For Cantaloup-Seed.) No. 22,145; Sept. 21; v. 278; p. 541.

Van Dyke, William L., Tampa, Fla. "Usacuba." (For Cigars.) No. 22,138; Sept. 14; v. 278; p. 366.

Walters, Henry V., Long Branch, N. J. "Some!!!" (For Cakes.) No. 22,139; Sept. 14; v. 278; p. 366.

Waterman, L. E. Company, New York, N. Y. "Waterman's Ideal Ink." (For Waterman's Ideal Ink.) Nos. 22,096–9; Sept. 7; v. 278; p. 162.

West, Augustus A., Philadelphia, Pa. "Magic Hair Curlers." (For Applied or Fastened Hair-Curlers.) Nos. 22,172–3; Sept. 21; v. 278; p. 541.

White & Wyckoff Mfg. Co., Holyoke, Mass. "Martha Washington." (For Boxes of Stationery and Writing-Tablets.) No. 22,140; Sept. 14; v. 278; p. 366.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Lead Pencil Company, New York, N. Y. "The Largest Selling Quality Pencil in the World." (For Lead-Pencils.) Nos 5,336–8; Sept. 14; v. 278; p. 366.

B. V. D. Company, The, New York, N. Y. "Long Wear." (For Athletic Underwear.) No. 5,340; Sept. 14; v. 278; p. 366.

B. V. D. Company, The, New York, N. Y. "Economy." (For Athletic Underwear.) No. 5,354; Sept. 21; v. 278; p. 542.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Caramels." (For Handy Candy Caramels.) No. 5,334; Sept. 7; v. 278; p. 162.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Cloves." (For Candy-namely, Cloves.) No. 5,352; Sept. 21; v. 278; p. 542.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Licorice." (For Candy—namely, Licorice.) No. 5,353; Sept. 21; v. 278; p. 542.

Boston Confectionery Company, Cambridge, Mass. "It Simply isn't Christmas without Sparrows." (For Confectionery.) No. 5,339; Sept. 14; v. 278; p. 366.

Cunningham, John A., & Co., Attleboro, Mass. "The Snappy Link." (For Cuff-Links.) No. 5,341; Sept. 14; v. 278; p. 366.

Detmer Woolen Co., New York, N. Y. "Come in Let Us Show You Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) No. 5,342; Sept. 14; v. 278; p. 366.

Detmer Woolen Co., New York, N. Y. "Come In—Let us show you Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) No. 5,365; Sept. 21; v. 278; p. 542.

Franklin, Joseph A., Chicago, Ill. "Shot." (For Non-Alcoholic Beverage.) No. 5,356; Sept. 21; v. 278; p. 542.

Franklin, Joseph A., Chicago, Ill. "The Drink With a Tickle for a Nickle." (For a Non-Alcoholic Beverage.) No. 5,357; Sept. 21; v. 278; p. 542.

Fuld, William, Baltimore, Md. "Ouija." (For a Talking-Board.) No. 5,358; Sept. 21; v. 278; p. 542.

Haynes Automobile Co., The, Kokomo, Ind. "The New Series Haynes Suburban." (For Automobiles.) No. 5,335; Sept. 7; v. 278; p. 162.

Hays, Daniel, Company, The, Gloversville, N. Y. "Hays Gloves." (For Leather Gloves.) No. 5,355; Sept. 21; v. 278; p. 542.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Fig Pudding." (For Heinz Fig-Pudding." No. 5,343; Sept. 14; v. 278; p. 366.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Tomato Ketchup." (For Heinz Tomato Catchup.) No. 5,344; Sept. 14; v. 278; p. 366.

Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans." (For Heinz Oven-Baked Beans.) No. 5,345; Sept. 14; v. 278; p. 366.

Kirk, James S., & Company, Chicago, Ill. "For a Lovely Complexion and Glorious Hair." (For Soap.) No. 5,346; Sept. 14; v. 278; p. 366.

Mutual Service Corporation, New York, N. Y. "Delight in Every Bite." (For Apples.) No. 5,359; Sept. 21; v. 278; p. 542.

No-Leak-O Piston Ring Company, Baltimore, Md. "No-Leak-O Oilsealing." (For Piston-Rings.) No. 5,347; Sept. 14; v. 278; p. 366.

Palmolive Company, The. "Simple Home Treatment Which Makes Your Hair Thick and Beautiful." (For Shampoo.) No. 5,348; Sept. 14; v. 278; p. 366.

Porcher, E. P., Cocoa, Fla. "Deerfield." (For Oranges and Grapefruit.) No. 5,349; Sept. 14; v. 278; p. 366.

Reliance Manufacturing Company, Chicago, Ill. "Big Yank." (For Work-Shirts.) No. 5,360; Sept. 21; v. 278; p. 542.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You'll fuss a pipe like it's the new baby." (For Smoking-Tobacco.) No. 5,350; Sept. 14; v. 278; p. 366.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "How do you get that way?" (For Smoking-Tobacco.) No. 5,351; Sept. 14; v. 278; p. 366.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "What a Grip You've Got on Smokesport at Both Ends." (For Smoking-Tobacco.) No. 5,361; Sept. 21; v. 278; p. 542.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "No Need Putting in a Call for the Old Family Yard Stick." (For Smoking-Tobacco.) No. 5,362; Sept. 21; v. 278; p. 542.

Whitaker, George S., Gloversville, N. Y. "The New Improved Double Floor Whitaker Denture Vacuum." (For a Vacuum Denture.) No. 5,363; Sept. 21; v. 278; p. 542.

World Phonograph Company, Chicago, Ill. "My Mama." (For Phonographs.) No. 5,364; Sept. 21; v. 278; p. 542.

DISCLAIMERS.

Duffy, Thomas I., Chicago, Ill.; disclaimer filed by assignee, Wire Wheel Corporation of America. Demountable wheel. No. 1,125,498; disclaimer filed Aug. 20, 1920; v. 278; p. 168.

Jepson, John W., Buffalo, N. Y.; disclaimer filed by assignee, Gould Coupler Company. Electrical system of distribution. No. 1,287,331; disclaimer filed Aug. 20, 1920; v. 278; p. 168.

Larsen, Louis B., O. J. Holmes, and H. G. Larsen, Chicago, Ill.; disclaimer filed by assignee, Acme Motion Picture Projector Co. Motion-picture machine. No. 1,283,224; disclaimer filed Sept. 8, 1920; v. 278; p. 548.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF SEPTEMBER, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accounting and record device. G. W. Moeller. No. 1,351,864; Sept. 7; v. 278; p. 30.
Acetylene-gas generator. C. T. and C. B. Cook. No. 1,353,455; Sept. 21; v. 278; p. 435.
Acid, Concentration of sulfuric. A. C. Bohre. No. 1,353,448; Sept. 21; v. 278; p. 433.
Acid, Producing hydrocyanic. G. H. Buchanan. No. 1,352,655; Sept. 14; v. 278; p. 218.
Acids and their glycerids, Method of and apparatus for hydrogenating fatty. A. Radisson and P. Berthon. No. 1,353,419; Sept. 21; v. 278; p. 428.
Adjustable clamp. R. H. Carpenter. No. 1,354,278; Sept. 28; v. 278; p. 665.
Adjustable clamp. M. L. Radtke. No. 1,351,966; Sept. 7; v. 278; p. 50.
Advertising device. M. Horsey. No. 1,352,368; Sept. 7; v. 278; p. 125.
Advertising device. W. B. Wheeler. No. 1,353,105; Sept. 14; v. 278; p. 307.
Advertising device. H. M. Yingst. No. 1,352,336; Sept. 7; v. 278; p. 119.
Aerial navigation, Apparatus for. C. Hering. No. 1,353,955; Sept. 28; v. 278; p. 578.
Aeronautical motor. C. B. Kirkham. No. 1,351,763; Sept. 7; v. 278; p. 9.
Aeroplane. E. V. Boller. No. 1,353,212; Sept. 21; v. 278; p. 388.
Aeroplane. H. L. Haskell. No. 1,352,600; Sept. 14; v. 278; p. 207.
Aeroplane. L. Hinz. No. 1,353,957; Sept. 28; v. 278; p. 579.
Aeroplane. F. C. Lawrence. No. 1,351,918; Sept. 7; v. 278; p. 41.
Aeroplane. R. R. Reed. No. 1,354,002; Sept. 28; v. 278; p. 588.
Aeroplane. P. T. Wolfe and W. H. Bovard. No. 1,353,692; Sept. 21; v. 278; p. 484.
Aeroplane construction. H. G. Hooper. No. 1,351,852; Sept. 7; v. 278; p. 28.
Aeroplane hoisting connection. H. Kleckler. No. 1,351,764; Sept. 7; v. 278; p. 10.
Aeroplane landing device. E. L. Martin. No. 1,352,077; Sept. 7; v. 278; p. 71.
Aeroplane-tractor. J. Ingells. No. 1,353,961; Sept. 28; v. 278; p. 580.
Aeroplane, Twin-propeller. L. B. Sperry. No. 1,353,544; Sept. 21; v. 278; p. 452.
Aeroplanes, Foldable landing-gear for. F. McCarroll. No. 1,353,407; Sept. 21; v. 278; p. 425.
Agraffe. R. W. Gertz. No. 1,353,904; Sept. 28; v. 278; p. 568.
Agricultural implement. S. L. Allen. No. 1,351,984; Sept. 7; v. 278; p. 54.
Agricultural implement, Balance. D. Y. Wheatley. No. 1,353,366; Sept. 21; v. 278; p. 417.
Agricultural machine. H. J. Davis. No. 1,352,725; Sept. 14; v. 278; p. 232.
Air and car coupling, Multiple electric. R. G. Averill and C. H. Tomlinson. No. 1,353,557. Sept. 21; v. 278; p. 455.
Air-compressor. C. F. Johnson. No. 1,354,402; Sept. 28; v. 278; p. 670.
Air-compressor, Hydraulic. H. M. De Witt. No. 1,353,897; Sept. 28; v. 278; p. 567.
Air-compressor regulator. C. Wainwright. No. 1,353,098; Sept. 14; v. 278; p. 305.
Air-compressor, Rotary. H. O. Jackson. No. 1,352,750; Sept. 14; v. 278; p. 237.
Air-compressor, Rotary. H. O. Jackson. No. 1,352,751; Sept. 14, v. 278; p. 237.
Air-deflecting device. C. T. Myers. No. 1,352,679; Sept. 14; v. 278; p. 223.
Aircraft safety device. G. Ajello. No. 1,354,367; Sept. 28; v. 278; p. 663.
Aircraft, Wing and similar member of. F. H. Page. No. 1,353,666; Sept. 21; v. 278; p. 478.
Airplane-hangars or other large openings, Multiple sliding door for. H. A. Johnson. No. 1,352,606; Sept. 14; v. 278; p. 208.
Airplane-wing. J. Petrovitch. No. 1,353,179; Sept. 21; v. 278; p. 382.
Airplane-wing-structure truss. G. H. Curtiss. No. 1,351,743; Sept. 7; v. 278; p. 6.
Airships, aeroplanes, &c., Shed for. G. Hervieu and P. M. G. Maréchal. No. 1,353,956; Sept. 28; v. 278; p. 579.
Airships, Apparatus for mooring. E. S. Ullmann. No. 1,351,931; Sept. 7; v. 278; p. 44.
Alarm: *See*—
Latch and burglar-alarm.
Alkaline melts, Manufacture of reducing. E. Bergve. No. 1,354,451; Sept. 28; v. 278; p. 679.
Alloy. J. G. Homan. No. 1,352,367; Sept. 7; v. 278; p. 125.
Alloy. Z. Jeffries and W. A. Gibson. No. 1,352,271; Sept. 7; v. 278; p. 107.
Alloy. Z. Jeffries and W. A. Gibson. No. 1,352,272; Sept. 7; v. 278; p. 107.
Alloy and making same, Metallic. T. D. Stay. No. 1,352,322; Sept. 7; v. 278; p. 117.
Alloys having high mechanical, chemical, and electrical resistance. A. Tedesco. No. 1,351,801; Sept. 7; v. 278; p. 19.
Alloys, Treating copper-bearing. W. J. Marsh. No. 1,353,773; Sept. 21; v. 278; p. 499.
Ammonia-compressor. G. Hilger. No. 1,354,190; Sept. 28; v. 278; p. 627.
Ammonia, Production of. J. C. Clancy. No. 1,352,180; Sept. 7; v. 278; p. 89.
Ammonia, Production of. J. C. Clancy. No. 1,352,181; Sept. 7; v. 278; p. 89.
Ammonia, Production of. J. C. Clancy. No. 1,352,174; Sept. 7; v. 278; p. 89.
Ammonia, Production of. J. C. Clancy. No. 1,352,182; Sept. 7; v. 278; p. 89.
Ammonia synthesis. J. C. Clancy. No. 1,352,179; Sept. 7; v. 278; p. 89.
Ammonia synthesis and catalyst therefor. J. C. Clancy. No. 1,352,178; Sept. 7; v. 278; p. 89.
Ammonia synthesis catalyst and making same. J. C. Clancy. No. 1,352,177; Sept. 7; v. 278; p. 89.
Amusement and exercise, Apparatus for the purpose of providing public. H. Clegg. No. 1,354,021; Sept. 28; v. 278; p. 592.
Amusement apparatus. C. Hermann. No. 1,354,436; Sept. 28; v. 278; p. 676.
Amusement apparatus. J. I. Holcomb and J. F. Hoke, Jr. No. 1,352,666; Sept. 14; v. 278; p. 220.
Amusement apparatus. H. F. Maynes. No. 1,353,929; Sept. 28; v. 278; p. 573.
Amusement device. H. A. Silver. No. 1,352,841; Sept. 14; v. 278; p. 255.
Amusement device, Speedway. A. P. Lauster. No. 1,353,918; Sept. 28; v. 278; p. 571.
Anchor-bolt. F. Hammermann. No. 1,353,159; Sept. 21; v. 278; p. 377.
Anchoring device. L. B. Fish. No. 1,351,845; Sept. 7; v. 278; p. 26.
Anemometer. S. G. Starling and A. J. Hughes. No. 1,352,391; Sept. 7; v. 278; p. 129.
Annealing furnace, Pipe-ball-. E. E. Alexander and J. T. Piggott. No. 1,354,368; Sept. 28; v. 278; p. 663.
Annealing-furnace. F. S. Kochendorfer and B. E. Balduf. No. 1,352,459; Sept. 14; v. 278; p. 178.
Antenna structure. L. Espenschied. No. 1,353,735; Sept. 21; v. 278; p. 492.
Antiskid device. W. C. Cutler. No. 1,352,403; Sept. 7; v. 278; p. 131.
Article-carrier. W. F. Sherman. No. 1,353,858; Sept. 28; v. 278; p. 559.
Antiskidding device. J. C. Dupler. No. 1,353,329; Sept. 21; v. 278; p. 410.
Armament, Mobile. M. Sitney. No. 1,351,928; Sept. 7; v. 278; p. 43.
Aseptic appliance. A. O. Kuhn. No. 1,351,917; Sept. 7; v. 278; p. 41.
Ash, cinder, and coal separator. E. C. Madsen. No. 1,351,861; Sept. 7; v. 278; p. 30.
Athletic exerciser. W. Schurr. No. 1,353,938; Sept. 28; v. 278; p. 575.
Attachment device, Separable. R. B. Benjamin. No. 1,352,776; Sept. 14; v. 278; p. 242.
Auger. R. Prew. No. 1,352,313; Sept. 7; v. 278; p. 115.
Auto-bumper. L. Cohen. No. 1,351,837; Sept. 7; v. 278; p. 25.
Auto-top. A. E. Lyons. No. 1,353,925; Sept. 28; v. 278; p. 572.
Automatic controlling device. C. J. Stuart. No. 1,353,434; Sept. 21; v. 278; p. 431.
Automatic gate. D. W. McCallum. No. 1,354,320; Sept. 28; v. 278; p. 653.

Automatic-locking spring-washer. A. T. Mills. No. 1,353,776; Sept. 21; v. 278; p. 499.
Automobile-body construction. J. J. Jones. No. 1,352,066; Sept. 7; v. 278; p. 68.
Automobile-bumper. E. A. Arnold and B. E. Bothig. No. 1,354,273; Sept. 28; v. 278; p. 644.
Automobile-bumper. W. V. Isgrig. No. 1,353,241; Sept. 21; v. 278; p. 393.
Automobile-bumper. F. R. Procunier. No. 1,352,220; Sept. 7; v. 278; p. 97.
Automobile-chock. F. Retterer. No. 1,353,541; Sept. 21; v. 278; p. 452.
Automobile-curtain. S. A. Gates. No. 1,353,568; Sept. 21; v. 278; p. 437.
Automobile direction-indicator. B. Carlisle. No. 1,353,023; Sept. 14; v. 278; p. 201.
Automobile-door lock. G. Harrison, Jr. No. 1,354,104; Sept. 28; v. 278; p. 610.
Automobile-drive. E. James. No. 1,352,130; Sept. 7; v. 278; p. 80.
Automobile-drive. E. James. No. 1,352,131; Sept. 7; v. 278; p. 81.
Automobile gear-lock. C. G. Trosien. No. 1,353,119; Sept. 14; v. 278; p. 309.
Automobile gear-lock. C. G. Trosien. No. 1,353,120; Sept. 14; v. 278; p. 309.
Automobile hauling attachment. E. Krumland. No. 1,353,762; Sept. 21; v. 278; p. 497.
Automobile-indicator. W. H. Burch. No. 1,352,874; Sept. 14; v. 278; p. 262.
Automobile-lock. F. O. Boswell. No. 1,353,143; Sept. 21; v. 278; p. 374.
Automobile-lock. R. C. Jenkins. No. 1,352,132; Sept. 7; v. 278; p. 81.
Automobile-lock. E. St. John. No. 1,354,071; Sept. 28; v. 278; p. 603.
Automobile-lock. J. Courtney. No. 1,354,172; Sept. 28; v. 278; p. 623.
Automobile-lock. R. M. Guy. No. 1,354,102; Sept. 28; v. 278; p. 609.
Automobile mud and dust shield. O. R. Emery. No. 1,352,798; Sept. 14; v. 278; p. 247.
Automobile pilot-signal. C. Sealy. No. 1,353,790; Sept. 21; v. 278; p. 502.
Automobile safety-signal. H. R. Delley. No. 1,351,773; Sept. 7; v. 278; p. 11.
Automobile safety-signal. F. Tokanos. No. 1,352,039; Sept. 7; v. 278; p. 63.
Automobile-signal. C. H. Felton. No. 1,352,946; Sept. 14; v. 278; p. 276.
Automobile-signal. C. F. Livingston and E. E. Lordge. No. 1,353,253; Sept. 21; v. 278; p. 395.
Automobile-signal. F. C. Roberts. No. 1,354,066; Sept. 28; v. 278; p. 602.
Automobile-signal. O. Freels. No. 1,353,950; Sept. 28; v. 278; p. 577.
Automobile-starter. H. C. Fentreas. No. 1,352,803; Sept. 14; v. 278; p. 248.
Automobile starting system. C. B. Mills and C. E. Wilson. No. 1,352,468; Sept. 14; v. 278; p. 180.
Automobile-tops. Dressing for. C. A. Honig. No. 1,353,239; Sept. 21; v. 278; p. 393.
Automobile-turn-indicating device. J. Kasienko. No. 1,353,964; Sept. 28; v. 278; p. 580.
Automobile-wrench combination. H. Rosenberg. No. 1,353,496; Sept. 21; v. 278; p. 443.
Automobiles, Antiskid device for. J. Grönroos. No. 1,351,750; Sept. 7; v. 278; p. 7.
Automobiles, Auxiliary radiator for. W. Nash. No. 1,353,263; Sept. 21; v. 278; p. 397.
Automobiles, Battery-charging and starting system for. C. E. F. Ahlm. No. 1,352,166; Sept. 7; v. 278; p. 87.
Automobiles, Convertible interior of. W. H. Griffin and O. C. Hartsough. No. 1,353,232; Sept. 21; v. 278; p. 391.
Automobiles, &c., Four-wheel drive for. H. A. Mieske. No. 1,353,411; Sept. 21; v. 278; p. 426.
Automobiles, Gear-casing and band-operating device for. J. T. Parrish. No. 1,353,812; Sept. 21; v. 278; p. 506.
Automobiles, Power attachment for. A. C. Beanblossom. No. 1,352,497; Sept. 14; v. 278; p. 186.
Automobiles, Signal-operating device for. M. Dean. No. 1,351,745; Sept. 7; v. 278; p. 6.
Automobiles, Speed-controlling mechanism for. M. J. Huggins and W. C. Dressler. No. 1,354,303; Sept. 28; v. 278; p. 650.
Automobiles, Pneumatic antivibration device for. G. W. Bell. No. 1,353,886; Sept. 28; v. 278; p. 565.
Automobile wrecking-trailer. G. H. Houck. No. 1,352,898; Sept. 14; v. 278; p. 267.
Automobiles, Power plant for. N. B. Wales. No. 1,353,099; Sept. 14; v. 278; p. 306.
Autos and trailers, Disk-flange attachment to. M. R. Thompson. No. 1,352,581; Sept. 14; v. 278; p. 199.
Auxiliary frame and spring attachment. J. B. Pospeshil. No. 1,352,625; Sept. 14; v. 278; p. 211.
Auxiliary seat. J. K. Shanaman. No. 1,354,137; Sept. 28; v. 278; p. 616.
Aviation-bombs, Fuse for. E. Schneider. No. 1,352,542; Sept. 14; v. 278; p. 195.
Ax. C. M. Doolittle. No. 1,354,384; Sept. 28; v. 278; p. 666.
Axle-box for adjustable locomotive-axles. P. Lefèbvre. No. 1,354,112; Sept. 28; v. 278; p. 611.
Axle brace, Front-. L. E. Boaley. No. 1,354,162; Sept. 28; v. 278; p. 621.
Axles, Forming. S. F. Borkey. No. 1,353,987; Sept. 28; v. 278; p. 585.
Axles, Spring-fitting for vehicle-. J. C. H. Grant. No. 1,353,470; Sept. 21; v. 278; p. 438.
Bag: *See*—
Fruit-picking bag.
Badges, Naval, military and other metallic. C. F. Gaunt. No. 1,353,228; Sept. 21; v. 278; p. 391.
Baffle-plate, Metallic. W. F. Sellers. No. 1,351,797; Sept. 7; v. 278; p. 16.
Bag-holder. E. Erickson. No. 1,353,330; Sept. 21; v. 278; p. 410.
Bag-machine. W. Rose. No. 1,354,339; Sept. 28; v. 278; p. 657.
Bags, Making and filling. A. M. Bates. No. 1,353,210; Sept. 21; v. 278; p. 387.
Bail, Container-body. J. H. Doyle and W. J. Kenny. No. 1,351,896; Sept. 7; v. 278; p. 37.
Balance. W. F. Bachman. No. 1,354,275; Sept. 28; v. 278; p. 644.
Bale-band-connecting means. E. V. Benjamin. No. 1,351,991; Sept. 7; v. 278; p. 55.
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Cans, Pouring-spout for. H. L. Strongson. No. 56,311; Sept. 14; v. 278; p. 321.
Condenser and motor and compressor base. E. Olsen. No. 56,302; Sept. 14; v. 278; p. 319.
Confectionery bouquet. A. M. Porter. No. 56,308; Sept. 14; v. 278; p. 321.
Counter and display-cabinet, Help-self. W. J. Bailey. No. 56,263; Sept. 14; v. 278; p. 313.
Culinary fixture. W. R. Walker. No. 56,315; Sept. 14; v. 278; p. 322.
Handbag. J. F. Wright. No. 56,261; Sept. 14; v. 278; p. 313.
Insulator. A. O. Austin. No. 56,262; Sept. 14; v. 278; p. 313.
Jar. C. D. Huyler. No. 56,252; Sept. 7; v. 278; p. 136.
Jewelry-holder. P. Viggiano. No. 56,314; Sept. 14; v. 278; p. 322.
Key-ring holder. A. F. Haber. No. 56,281; Sept. 14; v. 276; p. 316.
Lamp or similar article, Rim for a vehicle-. C. D. Ryder. Nos. 56,256–8; Sept. 7; v. 278; pp. 137–8.
Lamp, Electric floor-. F. A. Freriehs. No. 56,249; Sept. 7; v. 278; p. 136.
Lens, Automobile-. A. Senger. No. 56,259; Sept. 7; v. 278; p. 188.
Lighting-fixture arm. S. Kostszewski. No. 56,253; Sept. 7; v. 278; p. 137.
Mirror for motor-vehicles, Rear-sight. F. W. Rees. No. 56,309; Sept. 14; v. 278; p. 321.
Mud-guard, Bicycle. E. J. Lonn. No. 56,288; Sept. 14; v. 278; p. 317.
Paper holder, Toilet-. W. L. Lee. No. 56,254; Sept. 7; v. 278; p. 137.
Pencils, Rubber-eraser head for lead-. E. Faber. No. 56,247; Sept. 7; v. 278; p. 136.
Phonograph-casing. C. J. and S. L. M. Pearson. No. 56,305; Sept. 14; v. 278; p. 320.
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Radiators of motor-vehicles, Guard for. E. T. Curran. No. 56,275; Sept. 14; v. 278; p. 316.
Radiator-inclosure. D. C. Moore. No. 56,255; Sept. 7; v. 278; p. 137.
Razor. H. H. Johnson. No. 56,283; Sept. 14; v. 278; p. 317.
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Tombstone. G. F. Eisenbrown. Nos. 56,276–9; Sept. 14; v. 278; p. 316.
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Vehicle-wheel chock. F. M. Keeton. No. 56,285; Sept. 14; v. 278; p. 317.
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Abrasive, detergent, and polishing materials. Chelsea Engineering Sales Corporation. No. 134,905; Sept. 21; v. 278; p. 530.
Accounting-forms. J. H. Greenhalgh & Company. No. 134,669; Sept. 14; v. 278; p. 356.
Adhesives. Dewey & Almy Chemical Company. No. 135,366; Sept. 28; v. 278; p. 706.
Air-conditioning apparatus, air-driers, &c. W. L. Fleisher & Co. No. 134,649; Sept. 14; v. 278; p. 355.
Alcohol, Isopropyl. Standard Oil Company. No. 134,818; Sept. 14; v. 278; p. 360.
Alloys, Base-metal. W. W. Holland. No. 134,970; Sept. 21; v. 278; p. 532.
Ammonia, bluing, bleaching preparation, and disinfectant. Elberfeld Chemical & Mfg. Co. No. 134,936; Sept. 21; v. 278; p. 531.
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Analgesic and antipyretic. The Bayer Company. Nos. 134,891–2; Sept. 21; v. 278; p. 529.
Anesthetics, Local. Novocol Chemical Mfg. Co. No. 134,520; Sept. 7; v. 278; p. 160.
Antiseptic and disinfectant for sick-rooms, &c. Kall Manufacturing Co. No. 134,509; Sept. 7; v. 278; p. 160.
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Antiseptics. Eli Lilly and Company. No. 134,495; Sept. 7; v. 278; p. 159.
Apparel, Wearing-. Eloesser-Heynemann. No. 134,937; Sept. 21; v. 278; p. 531.
Aprons. Brooklyn Shield & Rubber Company. No. 134,604; Sept. 14; v. 278; p. 354.
Arctics. United States Rubber Company. No. 134,837; Sept. 14; v. 278; p. 361.
Aspirin. Smith, Kline & French Co. No. 134,540; Sept. 7; v. 278; p. 161.
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Automobile and furniture polish. Lamb Railway Service Co. No. 134,708; Sept. 14; v. 278; p. 357.
Automobile-bumpers and attaching-brackets. Biflex Products Company. No. 134,595; Sept. 14; v. 278; p. 354.
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Automobiles. The Haynes Automobile Company. No. 134,678; Sept. 14; v. 278; p. 356.
Automobiles. Jordan Motor Car Co. No. 134,985; Sept. 21; v. 278; p. 532.
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Automobiles. The Morris Adler Company. No. 134,873; Sept. 21; v. 278; p. 529.
Automobiles and repair parts therefor, Ignition and electric-lighting systems and magnetos for. The Cleveland Ignition Company. No. 134,911; Sept. 21; v. 278; p. 182.
Automobiles and automobile-trucks. Belmont Motors Corporation. No. 135,367; Sept. 28; v. 278; p. 707.
Babbitt metal and antifriction metals. P. R. Brown. No. 135,203; Sept. 28; v. 278; p. 701.
Baking plant. Peoples System of Bakeries. No. 134,523; Sept. 7; v. 278; p. 160.
Baking-powder. Rumford Chemical Works. No. 134,786; Sept. 14; v. 278; p. 359.
Banjos, mandolins, guitars, and ukulele-banjos. Lyon & Healy. No. 135,272; Sept. 28; v. 278; p. 703.
Bassinettes. L. G. Dibble. No. 134,629; Sept. 14; v. 278; p. 355.
Batteries and parts thereof, Electric. Ionite Storage Battery Co. No. 134,981; Sept. 21; v. 278; p. 532.
Batteries and parts thereof, Storage. The Hartford Battery Manufacturing Company. No. 134,677; Sept. 14; v. 278; p. 356.
Batteries, Electric. Acorn Battery Company. No. 134,871; Sept. 21; v. 278; p. 529.
Batteries, Electric. Burgess Battery Company. No. 134,605; Sept. 14; v. 278; p. 354.
Batteries, Electric storage. Perfection Storage Battery Co. No. 135,299; Sept. 28; v. 278; p. 704.
Battery-testers. Service Station Supply Co. No. 134,801; Sept. 14; v. 278; p. 360.
Beds, Crib-. Traders' Box & Lumber Company. No. 134,831; Sept. 14; v. 278; p. 361.
Beer or near beer, Compound used in the manufacture of. National Brewers Academy & Consulting Bureau. No. 135,289; Sept. 28; v. 278; p. 704.
Belting, Canvas. Rosendale-Reddaway Belting & Hose Co., The. No. 134,532; Sept. 7; v. 278; p. 161.
Belts for supporting wearing-apparel. G. H. Tyler & Co. No. 134,547; Sept. 7; v. 278; p. 161.
Beverages and syrup for making same. Eureka Products Co. No. 135,236; Sept. 28; v. 278; p. 702.
Beverage, Cereal malt. Suffolk Brewing Company. Nos. 135,082–3; Sept. 21; v. 278; p. 535.
Beverage, Non-alcoholic. Lash's Bitters Co. No. 134,394; Sept. 21; v. 278; p. 532.
Beverage, Non-alcoholic maltless cola. C. A. Crane. No. 134,488; Sept. 7; v. 278; p. 159.
Beverage, Non-alcoholic non-cereal maltless. The Dairy Products Company. No. 134,491; Sept. 7; v. 278; p. 159.
Beverage, Non-alcoholic, non-cereal, maltless, flavored. Schweppes, Limited. No. 134,538; Sept. 7; v. 278; p. 169.
Beverages, Non-alcoholic non-cereal. Interstate Commerce Company. No. 134,862; Sept. 14; v. 278; p. 363.
Billiard-cushions. The B. F. Goodrich Company. No. 134,660; Sept. 14; v. 278; p. 356.
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Blankets and robes. The Wallace & Smith Company. No. 135,356; Sept. 28; v. 278; p. 706.
Blankets, Textile. The Fair. No. 135,239; Sept. 28; v. 278; p. 702.
Blood-purifier. The T. D. S. Co. No. 135,089; Sept. 21; v. 278; p. 535.
Blotters, folders, &c. The Henderson Lithographing Company. No. 134,680; Sept. 14; v. 278; p. 356.
Bluing. Sunbeam Chemical Company. Nos. 135,084–5; Sept. 21; v. 278; p. 535.
Bluing in capsule form, Laundry. Blual Chemical Co. No. 134,894; Sept. 21; v. 278; p. 529.
Board and building-paper, Wall-. Buffalo Wall Board Company. No. 135,205; Sept. 28; v. 278; p. 701.
Books in which saving-stamps will be pasted, Blank. W. M. Hoerner. No. 134,969; Sept. 21; v. 278; p. 532.
Books, Memorandum-. Rosenblum & Kern. No. 135,063; Sept. 21; v. 278; p. 534.
Books, pads, and tablets, Blank. Boorum & Pease Co. No. 134,895; Sept. 21; v. 278; p. 529.
Books published in series, Printed. E. J. Clode. No. 134,615; Sept. 14; v. 278; p. 354.
Boots and shoes, Leather. Kimball & Sherman Company. No. 135,268; Sept. 28; v. 278; p. 703.
Boots and shoes, Leather. Merchants Trade Association Company. No. 135,284; Sept. 28; v. 278; p. 703.
Boots and shoes of leather. Stephen Putney Shoe Co. No. 135,305; Sept. 28; v. 278; p. 704.
Boots and shoes. Sterling Shoe Corporation. No. 135,342; Sept. 28; v. 278; p. 705.
Boots and shoes, Leather. W. H. Miles Shoe Co. No. 135,285; Sept. 28; v. 278; p. 704.
Boot drivers and awls, machinery-springs. Morris & Yeomans. No. 135,019; Sept. 21; v. 278; p. 533.
Boots and shoes. American Italian Trading Company McDonnell, Truda & Berlingieri. No. 134,562; Sept. 7; v. 278; p. 161.
Boots, shoes, and slippers, Men's and women's. Diamond Shoe Co. No. 135,223; Sept. 28; v. 278; p. 702.
Braids, shoe and corset laces, and galloons. W. H. Joslin. No. 134,508; Sept. 7; v. 278; p. 160.
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Bread. L. Weinberg Baking Co. No. 134,560; Sept. 7; v. 278; p. 161.
Bristles and human hair. Andersen-Meyer & Company. No. 134,570; Sept. 14; v. 278; p. 353.
Briquets made from coal. C. H. Smith. No. 134,808; Sept. 14; v. 278; p. 360.
Brushes, brooms, floor-sweepers, Dustpan and household. Auburn Brush Company. No. 134,474; Sept. 7; v. 278; p. 159.
Brushes, Hair, tooth, and clothes. The Ames-Bonner Company. No. 135,190; Sept. 28; v. 278; p. 701.
Brushes, House, hat, sink, cuspidor, &c. A. J. Nauberger. No. 135,291; Sept. 28; v. 278; p. 704.
Buckets and bins, Wood, fiber, and canvas hand-. Allied Machinery Company of America. No. 134,876; Sept. 21; v. 278; p. 529.
Building and play blocks and blocks for games. Halsam Products Company. No. 134,675; Sept. 14; v. 278; p. 356.
Building plans. King Ventilating Company. No. 134,703; Sept. 14; v. 278; p. 357.
Bulletin issued at irregular intervals. Fats and Oils Service Company. No. 134,498; Sept. 7; v. 278; p. 160.
Butter. H. B. Elngold. No. 135,233; Sept. 28; v. 278; p. 702.
Cabinets, Phonograph-. The Veratone Phonograph Co. No. 134,840; Sept. 14; v. 278; p. 361.
Cake mixture, Prepared. E. C. Gatlin Company. No. 135,248; Sept. 28; v. 278; p. 702.
Cakes. Ward Baking Company. No. 134,844; Sept. 14; v. 278; p. 361.

Candies. E. R. Pershing. No. 135,041; Sept. 21; v. 278; p. 534.
Candies. Tiffin Products Inc. No. 135,092; Sept. 21; v. 278; p. 535.
Candy. American Candy Manufacturing Co. No. 134,472; Sept. 7; v. 278; p. 159.
Candy. C. A. Crane. No. 135,490; Sept. 7; v. 278; p. 159.
Candy. Fuerst & Kraemer Limited. No. 134,949; Sept. 21; v. 278; p. 531.
Candy. The Nunnally Company. No. 135,373; Sept. 28; v. 278; p. 707.
Candy. Package Confectionery Company. No. 135,374; Sept. 28; v. 278; p. 707.
Candy. Sioux Candy Co. No. 135,335; Sept. 28; v. 278; p. 705.
Candy. Tiffin Products, Inc. No. 134,545; Sept. 7; v. 278; p. 161.
Candy. Universal Theatres Concessions Co. No. 134,552; Sept. 7; v. 278; p. 161.
Candy, Chocolate. Chocolate Truffles Co. No. 135,177; Sept. 21; v. 278; p. 539.
Candy, Chocolate. Pennsylvania Chocolate Company. No. 135,186; Sept. 21; v. 278; p. 540.
Candy, Chocolate. Theodore Gottman & Sons. No. 135,181; Sept. 21; v. 278; p. 539.
Candy, fresh fruits, and nuts. Canterbury Candy Makers. No. 135,208; Sept. 28; v. 278; p. 701.
Canes, parasols, and umbrellas. Tiffany & Company. No. 135,091; Sept. 21; v. 278; p. 535.
Canned concentrated clam and oyster juices. Moluska Corporation. No. 135,286; Sept. 28; v. 278; p. 704.
Canned corn, tomatoes, peas, &c. Consolidated Companies. No. 134,487; Sept. 7; v. 278; p. 159.
Canned fruits. Colonial Preserve Company. No. 134,486; Sept. 7; v. 278; p. 159.
Canned fruits and vegetables. Richmond-Chase Company. No. 134,530; Sept. 7; v. 278; p. 160.
Canned peaches and apricots. San Fernando Canning Co. No. 134,534; Sept. 7; v. 278; p. 161.
Carbons, Electric. The General Electric Company. No. 134,636; Sept. 14; v. 278; p. 355.
Cards for playing games, Sets of. C. Britton. No. 135,202; Sept. 28; v. 278; p. 701.
Cards, Playing. Midland Playing Card Co. No. 134,744; Sept. 14; v. 278; p. 358.
Cars and car-trucks. The J. G. Brill Company. No. 135,201; Sept. 28; v. 278; p. 701.
Cars and dump-wagons, Dump, spreader, and flat. Western Wheeled Scraper Company. No. 135,162; Sept. 21; v. 278; p. 537.
Carburetors. Sunderman Corporation. No. 135,343; Sept. 28; v. 278; p. 705.
Cement for the construction and repair of furnaces. Laclede-Christy Clay Products Company. No. 134,707; Sept. 14; v. 278; p. 357.
Cheese, Brick. H. R. Moidenbauer. No. 135,016; Sept. 21; v. 278; p. 533.
Cheeses. E. Galbani. No. 134,502; Sept. 7; v. 278; p. 160.
Chemicals, Organic. Davidson Brothers. No. 135,221; Sept. 28; v. 278; p. 702.
China and semiporcelain earthenware, Ironstone. J. & G. Meakin. No. 135,281; Sept. 28; v. 278; p. 703.
Chocolate and candy. Pennsylvania Chocolate Company. No. 135,185; Sept. 21; v. 278; p. 540.
Cider, Champagne. Valle, Ballina y Fernandez, S. A. No. 135,097; Sept. 21; v. 278; p. 536.
Cigarettes. British-American Tobacco Company. No. 134,603; Sept. 14; v. 278; p. 354.
Cigarettes. Liggett & Myers Tobacco Company. No. 134,714; Sept. 14; v. 278; p. 357.
Cigarettes. Liggett & Myers Tobacco Company. No. 135,273; Sept. 28; v. 278; p. 703.
Cigarettes. Mellkian Cigarettes, Inc. No. 135,283; Sept. 28; v. 278; p. 703.
Cigarettes. Standard Tobacco Company. No. 134,819; Sept. 14; v. 278; p. 360.
Cigarettes, little cigars, smoking-tobacco. Estate of I. B. Krinsky. No. 135,269; Sept. 28; v. 278; p. 703.
Cigars. De Nobili Cigar Co. No. 134,625; Sept. 14; v. 278; p. 355.
Cigars. Muuy Blanc & Co. No. 134,731; Sept. 14; v. 278; p. 358.
Cigars. Progressive Cigar Corporation of Philadelphia. No. 134,774; Sept. 14; v. 278; p. 359.
Circuit-controllers, Automatic. Clox-Lite Mfg. Company. No. 134,912; Sept. 21; v. 278; p. 530.
Clasps, Lingerie, scarf, collar, and bib. M. & G. Novelty Company. No. 134,727; Sept. 14; v. 278; p. 358.
Cleaners and parts thereof, Electric vacuum-. The Regina Company. No. 135,051; Sept. 21; v. 278; p. 534.
Cleaners, Electric vacuum-. The Ramey Mfg. Company. No. 135,308; Sept. 28; v. 278; p. 704.
Cleaners, Electric vacuum-. The Torrington Company. No. 134,864; Sept. 14; v. 278; p. 364.
Cleaning and polishing materials for jewelry and metal ware. Tiffany & Company. No. 135,090; Sept. 21; v. 278; p. 535.
Cleaning compound. Fitzpatrick Bros. No. 134,858; Sept. 14; v. 278; p. 363.
Cleaning compound. E. M. Hickey. No. 135,261; Sept. 28; v. 278; p. 703.
Cleaning compounds. Oakley Chemical Co. No. 134,754; Sept. 14; v. 278; p. 358.
Cleaning material for fabrics. Pyrene Manufacturing Company. No. 135,306; Sept. 28; v. 278; p. 704.
Cleansing compound for removing grease-spots from fabrics. M. Solomon. No. 134,809; Sept. 14; v. 278; p. 360.
Cleansing, polishing, and burnishing the surfaces of metal and glass, Compounds used for. A. W. Richards. No. 135,055; Sept. 21; v. 278; p. 534.
Cleansing preparation for woodwork, metal, or clothing. J. J. & G. W. Haynes. No. 135,257; Sept. 28; v. 278; p. 703.
Clothing. Jennings Lace Works Corp. No. 134,693; Sept. 14; v. 278; p. 357.
Clothing. William Bloom & Co. No. 134,598; Sept. 14; v. 278; p. 354.
Clothing for men and boys. Madansky Brothers. No. 134,728; Sept. 14; v. 278; p. 358.
Coffee. The C. D. Kenny Co. No. 135,267; Sept. 28; v. 278; p. 703.
Coffee-roasters, Electric. Magic Coffee Machine Company. No. 135,278; Sept. 28; v. 278; p. 703.
Collars, Men's soft silk. B. Stromberg. No. 134,825; Sept. 14; v. 278; p. 361.
Coloring matters for foods and liquids. Lichtenstein & Company, Limited. No. 134,713; Sept. 14; v. 278; p. 357.
Combs. Samstag and Hilder Bros. No. 135 064; Sept. 21; v. 278; p. 535.
Confectionery. W. H. Woodard. No. 135,170; Sept. 21; v. 278; p. 538.
Cork disks, washers, and gaskets. International Cork Company. No. 134,978; Sept. 21; v. 278; p. 532.
Cornmeal, bolted meal, buckwheat-flour, &c. Everbest Milling Corporation. No. 134,941; Sept. 21; v. 278; p. 531.
Corsets. R. H. Macy & Co. Nos. 135,276–7; Sept. 28; v. 278; p. 703.
Corsets and abdominal supporters. J. C. McNeal. No. 135,007; Sept. 21; v. 278; p. 533.
Corsets and belts worn as substitutes for corsets. F. G. Baugatz. No. 134,587; Sept. 14; v. 278; p. 353.
Corundum in bulk. American Abrasive Company. No. 134,471; Sept. 7; v. 278; p. 159.
Cotton and cotton and silk goods in the piece. Rossman Brothers. No. 135,325; Sept. 28; v. 278; p. 705.
Cotton and silk piece goods. Commercial Shirt Company. No. 134,917; Sept. 21; v. 278; p. 530.
Cotton piece goods. China, Japan & South America Trading Co. No. 134,907; Sept. 21; v. 278; p. 530.
Cotton piece goods. Edwin P. Gleason's Son. No. 134,861; Sept. 14; v. 278; p. 363.
Cotton piece goods. F. C. Harder. No. 135,182; Sept. 21; v. 278; p. 540.
Cough candy, drops, and lozenges. Aubrey-Becker Sales Co. No. 134,581; Sept. 14; v. 278; p. 353.
Cough-syrup preparation. American Laboratories. No. 134,878; Sept. 21; v. 278; p. 529.
Crackers, biscuits, cakes, &c. Keebler Weyl Baking Co. No. 135,358; Sept. 28; v. 278; p. 706.
Cravats and neckties. Feinberg & Feinberg. No. 134,645; Sept. 14; v. 278; p. 355.
Cream, Cold-. Northam Warren Corporation. No. 134,518; Sept. 7; v. 278; p. 160.
Cream, Rubefacient and anodyne. The E. L. Patch Co. No. 135,297; Sept. 28; v. 278; p. 704.
Cream, Shaving-. F. De Palma. No. 134,628; Sept. 14; v. 278; p. 355.
Cycle-handle-bar grips. Essex Rubber Company. No. 135,235; Sept. 28; v. 278; p. 702.
Dairy ration. Penn Grains and Feed Company. No. 134,863; Sept. 14; v. 278; p. 363.
Dental pliers, &c. The Cleveland Dental Manufacturing Company. No. 134,614; Sept. 14; v. 278; p. 354.
Dentifrice. The Forsyth Dental Infirmary for Children. No. 134,947; Sept. 21; v. 278; p. 531.
Deodorant, insecticide, and roach-powder. W. Kendorski. No. 134,699; Sept. 14; v. 278; p. 357.
Deodorants and preparations for relief of excessive perspiration. C. B. Imrie. No. 134,689; Sept. 14; v. 278; p. 356.
Dice, dominoes, &c. Piroxloid Products Corporation. No. 134,764; Sept. 14; v. 278; p. 359.
Disinfectants, insecticides, and germicides. Rochester Germicide Company. No. 134,581; Sept. 7; v. 278; p. 160.
Dolls. M. M. Graham. No. 134,748; Sept. 14; v. 278; p. 358.
Dolls. M. M. Meldram. No. 135,282; Sept. 28; v. 278; p. 703.
Dolls. Nutaseme Hosiery Company. No. 134,753; Sept. 14; v. 278; p. 358.
Dolls and toys. S. I. Rothschild. No. 135,326; Sept. 28; v. 278; p. 705.
Dolls, figure toys, rattles, &c. Toy Tinkers. No. 135,346; Sept. 28; v. 278; p. 705.
Dresses and rompers, Girls' cotton wash-. C. M. Hunt. No. 135,264; Sept. 28; v. 278; p. 703.
Dresses, Children's. W. E. Graves. No. 134,667; Sept. 14; v. 278; p. 356.
Dresses, Children's. Ritzwoller & Co. No. 134,783; Sept. 14; v. 278; p. 359.
Dresses, skirts, coats, and suits, Ladies'. Economy Manufacturing Company. No. 135,178; Sept. 21; v. 278; p. 539.

Drying-machines, Electrical lavatory. Groton Electrical Devices. No. 135,252; Sept. 28; v. 278; p. 703.
Dyestuffs. The Grasselli Chemical Co. No. 134,666; Sept. 14; v. 278; p. 356.
Dyestuffs. Jennings & Company. No. 134,983; Sept. 21; v. 278; p. 532.
Dyestuffs. Sonn Brothers Company. No. 134,541; Sept. 7; v. 278; p. 161.
Dyestuffs. Sonn Brothers Company. Nos. 134,811–6; Sept. 14; v. 278; p. 360.
Educational appliance. Marcus Lucius Quinn Conservatory of Music. No. 135,307; Sept. 28; v. 278; p. 704.
Eggs. Debow & Co. No. 135,222; Sept. 28; v. 278; p. 702.
Eggs, Fresh. Tilden Produce Co. No. 134,546; Sept. 7; v. 278; p. 161.
Electric light and power units, Motor-driven. Plix Light Company. No. 135,044; Sept. 21; v. 278; p. 534.
Electric-light-fixture parts. Phoenix Light Company. No. 134,762; Sept. 14; v. 278; p. 359.
Electric-light plants for isolated or farm use, Unitary. Perfection Storage Battery Co. Nos. 135,300–1; Sept. 28; v. 278; p. 704.
Electric-lighting fixtures and electric lamps. Edward Miller & Co. No. 135,014; Sept. 21; v. 278; p. 533.
Electric-lighting fixtures, Ornamental art. Lincoln Manufacturing Company. No. 135,002; Sept. 21; v. 278; p. 533.
Electric-lighting plants and parts thereof, Unitary. H. M. Whitman. No. 135,359; Sept. 28; v. 278; p. 706.
Electrical goods. "Bestov" Manufacturing Co. No. 134,594; Sept. 14; v. 278; p. 354.
Electrical transformers. The States Company. No. 134,821; Sept. 14; v. 278; p. 361.
Embroidery wool, wool threads, and threads made of linen, cotton, metal, or silk. C. R. Meissner Co. No. 134,739; Sept. 14; v. 278; p. 358.
Envelops, papeteries, writing-tablets. The Central Ohio Paper Co. No. 134,901; Sept. 21; v. 278; p. 530.
Expectorant and bronchial sedative. The Eli Lilly & Company. No. 134,715; Sept. 14; v. 278; p. 357.
Fabrics, Textile. A. I. Ludwig. No. 135,004; Sept. 21; v. 278; p. 533.
Fans and blowers. Ilg Electric Ventilating Company. No. 134,976; Sept. 21; v. 278; p. 532.
Fats used in the manufacture of ointment. De Nordiske Fabricker, De-No-Fa Aktieselskab. No. 134,626; Sept. 14; v. 278; p. 355.
Feed, Stock, dairy, and poultry. The Superior Feed Co. No. 135,344; Sept. 28; v. 278; p. 705.
Feeds for horses, cattle, hogs, &c., Mixed. Donmeyer Gardener Co. No. 135,225; Sept. 28; v. 278; p. 702.
Feeds, Stock and poultry. J. J. Badenoch Co. No. 135,196; Sept. 28; v. 278; p. 701.
Filters, Gasolene-. Visible Gasoline Filter Company. No. 135,355; Sept. 28; v. 278; p. 706.
Fire-extinguishing compounds. U. S. Fire Extinguisher Co. No. 135,096; Sept. 21; v. 278; p. 535.
Fire-extinguishing fluid. Everit Chemical Co. No. 134,639; Sept. 14; v. 278; p. 355.
Fireproof floorings and coverings for partitions, walls, and roofings, Composition. J. D. Insulating & Refrigerating Co. No. 134,692; Sept. 14; v. 278; p. 357.
Fireworks. Unexcelled Manufacturing Company. No. 135,094; Sept. 21; v. 278; p. 535.
Fishing-lines. The Horton Manufacturing Co. No. 134,972; Sept. 21; v. 278; p. 532.
Fishing-lines. The Horton Manufacturing Co. No. 135,263; Sept. 28; v. 278; p. 703.
Fishing rods, lines, reels, hooks, and bait. Hibbard, Spencer, Bartlett & Co. No. 135,260; Sept. 28; v. 278; p. 703.
Flash-lights. Shapleigh Hardware Company. No. 135,071; Sept. 21; v. 278; p. 535.
Flavoring material for making a non-alcoholic fruit beverage and the beverage made therefrom. Grape Ola Products Corporation. Nos. 134,504–5; Sept. 7; v. 278; p. 160.
Flavoring material for making a non-alcoholic beverage and the beverage made therefrom. Grape Ola Products Corporation. No. 134,506; Sept. 7; v. 278; p. 160.
Floor-covering. The Charles William Stores. No. 135,167; Sept. 21; v. 278; p. 537.
Floor-coverings, Prepared. The Congoleum Company. No. 134,918; Sept. 21; v. 278; p. 530.
Flour, Wheat-. Gladney Milling Company. No. 134,956; Sept. 21; v. 278; p. 531.
Flour, Wheat-. Riverside Mill Company. No. 135,310; Sept. 28; v. 278; p. 704.
Flour, Wheat-. Spokane Meelmolens (Spokane Flour Mills.) No. 135,341; Sept. 28; v. 278; p. 705.
Flour, wheat cereal, rolled oats, &c., Buckwheat pancake-. Pillsbury Flour Mills Company. No. 135,302; Sept. 28; v. 278; p. 704.
Foods, Cereal. J. D. Wirt. No. 134,867; Sept. 14; v. 278; p. 363.
Food, Stock. Faber & Company. No. 135,238; Sept. 28; v. 278; p. 702.
Food used in the feeding of infants, Prepared milk. The Babies Dispensary & Hospital of Cleveland. No. 135,195; Sept. 28; v. 278; p. 701.
Footwear. Dorothy Dodd Shoe Company. No. 135,368; Sept. 28; v. 278; p. 707.
Fuel for internal-combustion engines, Liquid. G. W. Woolley. No. 135,365; Sept. 28; v. 278; p. 706.
Fur, Imitation. A. B. Schneider. No. 134,796; Sept. 14; v. 278; p. 360.
Furs, Raw. Reliance Fur Dyeing Inc. No. 134,778; Sept. 14; v. 278; p. 359.
Furnaces, Annealing, tempering, forging, metallurgical, &c. The Strong Carlisle & Hammond Company. No. 134,826; Sept. 14; v. 278; p. 361.
Furniture. H. Freedman. No. 134,948; Sept. 21; v. 278; p. 531.
Furniture. Somma Shops, Inc. No. 134,810; Sept. 14; v. 278; p. 360.
Furniture-polish. M. Sherman. No. 134,802; Sept. 14; v. 278; p. 360.
Fuses and cut-outs, Electric. Bussmann Manufacturing Company. No. 135,207; Sept. 28; v. 278; p. 701.
Game, Table ball. A. S. Iles. No. 134,690; Sept. 14; v. 278; p. 356.
Garbage-cans, Sanitary. P. Cohen. No. 134,913; Sept. 21; v. 278; p. 530.
Garments, Women's and children's outer and under. Shainberg and Eber. No. 135,070; Sept. 21; v. 278; p. 535.
Garters, hose-supporters, armbands, suspenders. U. S. Garter & Suspender Company. No. 135,352; Sept. 28; v. 278; p. 706.
Gasolene, benzin, naphtha, fuel-oil, &c. Beaver Refining Company. No. 134,593; Sept. 14; v. 278; p. 354.
Germicide. H. M. Howell. No. 134,973; Sept. 21; v. 278; p. 532.
Ginger-ale. Gold Fish Ginger Ale Company. No. 135,249; Sept. 28; v. 278; p. 702.
Ginger-ale, ginger-beer, sarsaparilla, &c. J. J. Reardon. No. 135,050; Sept. 21; v. 278; p. 534.
Ginghams and cotton piece goods. Parkhill Mfg. Co. No. 135,034; Sept. 21; v. 278; p. 534.
Ginghams and cotton piece goods. Parkhill Mfg. Co. No. 135,296; Sept. 28; v. 278; p. 704.
Glass dishes. Macbeth-Evans Class Company. No. 135,009; Sept. 21; v. 278; p. 533.
Glass, Sheet-. The Super-Glass Co. No. 135,086; Sept. 21; v. 278; p. 535.
Glassware. Central Glass Works. No. 134,608; Sept. 14; v. 278; p. 354.
Gloves of leather and fabric. T. H. Hall. No. 134,962; Sept. 21; v. 278; p. 531.
Grape-fruit, pineapples, grape-fruit marmalade. Spanish American Fruit Company. No. 135,340; Sept. 28; v. 278; p. 705.
Graphite, soapstone, and mica. St. Louis Rubber Cement Co. No. 135,080; Sept. 21; v. 278; p. 535.
Grinding-machines and parts thereof, Metal-working. Saphil Manufacturing Corporation. No. 135,329; Sept. 28; v. 278; p. 705.
Groceries. Troy Dry Goods Co. No. 135,347; Sept. 28; v. 278; p. 705.
Hair and scalp, Compound for the treatment of. A. L. Carter. No. 134,481; Sept. 7; v. 278; p. 159.
Hair-coloring. J. B. C. Balme. No. 134,475; Sept. 7; v. 278; p. 159.
Hair-dressing, Pomade. J. J. Kaufman. No. 134,698; Sept. 14; v. 278; p. 357.
Hair dyes and shampoo. Ori-Ori Company. No. 134,756; Sept. 14; v. 278; p. 358.
Hair, Fluid to relieve falling. S. Praisner. No. 135,045; Sept. 21; v. 278; p. 534.
Hair-grower. M. E. Watson. No. 134,845; Sept. 14; v. 278; p. 361.
Hair-invigorator. R. A. Farese. No. 134,943; Sept. 21; v. 278; p. 531.
Hair-nets. C. Oppenheimer. No. 135,184; Sept. 21; v. 278; p. 540.
Hair-nets. Fulghum & Company. No. 134,950; Sept. 21; v. 278; p. 531.
Hair-nets. Paristyle Novelty Co. No. 135,035; Sept. 21; v. 278; p. 534.
Hair-restorer. C. L. Waters. No. 134,558; Sept. 7; v. 278; p. 161.
Hair-tonic. A. Antoine. No. 134,885; Sept. 21; v. 278; p. 529.
Hair-tonic. M. Faehner. No. 134,497; Sept. 7; v. 278; p. 159.
Hair-tonic. H. F. Feeback. No. 134,644; Sept. 14; v. 278; p. 355.
Hair-tonic. W. H. Forst. No. 135,241; Sept. 28; v. 278; p. 702.
Hair-tonic. E. Kiger. No. 134,701; Sept. 14; v. 278; p. 357.
Hair-tonic. S. Kurman. No. 134,706; Sept. 14; v. 278; p. 357.
Hair-tonic. C. J. Williams. No. 135,361; Sept. 28; v. 278; p. 706.
Hair-tonic and dandruff-preventive. Atlanta Barbers' Supply Co. No. 134,888; Sept. 21; v. 278; p. 529.
Hair-tonic and gloss and shampoo preparation. P. B. Garden. No. 134,952; Sept. 21; v. 278; p. 531.
Handbags, Ladies'. Ritter Bros. No. 134,782; Sept. 14; v. 278; p. 359.
Handbags, Ladies'. Ritter Bros. No. 135,058; Sept. 21; v. 278; p. 534.
Handkerchiefs. Hyman Bauman & Co. No. 134,561; Sept. 7; v. 278; p. 161.
Hats, caps, neckwear. B. Tulchinsky. No. 135,348; Sept. 28; v. 278; p. 705.

Hats for children, girls, and misses, Straw and cloth. Madge Evans Hat Co. No. 134,637; Sept. 14; v. 278; p. 355.
Hats for children and misses. Sears, Roebuck and Co. No. 134,800; Sept. 14; v. 278; p. 360.
Hats, Men's. Mt. Tom Hat Manufacturing Company. No. 134,746; Sept. 14; v. 278; p. 358.
Hats, Pattern-. Lynn-Kerr & Co. No. 134,723; Sept. 14; v. 278; p. 357.
Hats, Women's. Sears, Roebuck and Co. No. 134,799; Sept. 14; v. 278; p. 360.
Hats, Women's. B. B. Brewer. No. 134,896; Sept. 21; v. 278; p. 529.
Heating and ventilating units. Ilg Electric Ventilating Company. No. 134,977; Sept. 21; v. 278; p. 532.
Hides and leather. Kullman, Salz & Co. No. 134,705; Sept. 14; v. 278; p. 357.
Hides, skins, and raw furs. L. A. Scandrett. No. 134,795; Sept. 14; v. 278; p. 360.
Hose made wholly or in part of rubber. The Goodyear Tire & Rubber Company. No. 135,180; Sept. 21; v. 278; p. 539.
Hose, Men's half-. The Liberty Hosiery Company. No. 134,997; Sept. 21; v. 278; p. 533.
Hosiery. Alexander & Irwin Co. No. 134,875; Sept. 21; v. 278; p. 529.
Hosiery. Cooper Underwear Company. No. 134,024; Sept. 21; v. 278; p. 530.
Hosiery. I. Fisher Son & Co. No. 134,944; Sept. 21; v. 278; p. 531.
Hosiery. Fulfashon Hosiery Company. Nos. 134,651–2; Sept. 14; v. 278; p. 355.
Hosiery. W. T. Grant Co. No. 134,665; Sept. 14; v. 278; p. 356.
Hosiery. S. Halff & Co. No. 134,673; Sept. 14; v. 278; p. 356.
Hosiery. Johnson City Mills. No. 134,694; Sept. 14; v. 278; p. 357.
Hosiery. Muller Export Company. No. 134,747; Sept. 14; v. 278; p. 358.
Hosiery. E. W. Robischon Inc. No. 135,312; Sept. 28; v. 278; p. 704.
Hosiery. Everwear Hosiery Company. No. 135,369; Sept. 28; v. 278; p. 707.
Hosiery. Nu-Tex Hosiery Co. No. 135,292; Sept. 28 v. 278; p. 704.
Hosiery, Men's. S. M. Wertheimer. No. 135,160; Sept. 21; v. 278; p. 537.
Ice-cream toppings. Marshalltown Syrup & Sugar Company. No. 135,183; Sept. 21; v. 278; p. 540.
Ink in powdered form, Writing-. J. F. Soby. No. 135,338; Sept. 28; v. 278; p. 705.
Ink, Writing and engrossing. E. Goodwirth. No. 134,662; Sept. 14; v. 278; p. 356.
Inks and ink-sticks. H. L. Perez. No. 135,040. Sept. 21; v. 278; p. 534.
Inks of all kinds, metal-stamp inks, &c., Writing-. Pomeroy Ink Manufacturing Co. Nos. 134,768–9; Sept. 14; v. 278; p. 359.
Inks, Printing-. J. M. Huber No. 134,974; Sept. 21; v. 278; p. 532.
Inks, Writing-. American Ink Company. No. 134,566; Sept. 14; v. 278; p. 353.
Insecticide. A. O. Chemical Co. No. 134,611; Sept. 14; v. 278; p. 354.
Insecticide and vermin-exterminator. C. J. Martin. No. 134,734; Sept. 14; v. 278; p. 358.
Insecticides. Graylawn Farms Company. No. 134,959; Sept. 21; v. 278; p. 531.
Insecticides. A. V. McConaghy. No. 134,513; Sept. 7; v. 278; p. 160.
Insecticides for dogs and cats. G. T. Harz. No. 135,256; Sept. 28; v. 278; p. 703.
Insulators for high-tension insulation. The Locke Insulator Manufacturing Company. No. 134,717; Sept. 14; v. 278; p. 357.
Jellies, fruit jams, table preserves, canned fruits and vegetables. Wallace Roberts Canning Company. No. 135,188; Sept. 21; v. 278; p. 540.
Jewelry. The Deco Co. No. 134,624; Sept. 14; v. 278; p. 354.
Jewelry. W. Reed Williams (1908). No. 134,848; Sept. 14; v. 278; p. 361.
Jewelry, not including watches. Shiman-Miller Manufacturing Company. No. 134,803; Sept. 14; v. 278; p. 360.
Kerosene. Petroleum Products Co. No. 134,761; Sept. 14; v. 278; p. 359.
Kimonos. George Borgfeldt & Co. No. 134,600; Sept. 14; v. 278; p. 354.
Knit and textile coats and sweaters. Greenbaum, Weil & Michels. No. 135,357; Sept. 28; v. 278; p. 706.
Knit cloth in the piece, Jersey. Wilkin & Adler. No. 135,360; Sept. 28; v. 278; p. 706.
Knit napkins, Women's. Palmyra Knitting Company. No. 135,029; Sept. 21; v. 278; p. 533.
Knit underwear. S. D. Bausher. No. 134,588; Sept. 14; v. 278; p. 353.
Knitted caps, sweaters, gloves, mittens. Novelty Knitting Mills. No. 135,026; Sept. 21; v. 278; p. 533.
Knitted underwear. Ford Manufacturing Co. No. 134,945; Sept. 21; v. 278; p. 531.
Knitted underwear, both one and two piece. Everett Knitting Works. No. 134,940; Sept. 21; v. 278; p. 531.
Knives of base metal, Table-. Northampton Cutlery Company. No. 135,293; Sept. 28; v. 278; p. 704.
Labels, Printed, gummed. The Frank G. Shuman Co. No. 134,539; Sept. 7; v. 278; p. 161.
Lamps, candelabra, candlesticks, electroliers, and pocket-lights, Electric. Tiffany and Company. Nos. 134,528–9; Sept. 14; v. 278; p. 361.
Lamps, Incandescent electric. Novelty Incandescent Lamp Company. No. 135,025; Sept. 21; v. 278; p. 533.
Laxative candy. F. Garfinkel. No. 134,953; Sept. 21; v. 278; p. 531.
Leather. A. J. Bates & Company. No. 134,586; Sept. 14; v. 278; p. 353.
Leather. Merchant Loveys Leather Co. No. 134,741; Sept. 14; v. 278; p. 358.
Leather. Monarch Leather Company. No. 135,372; Sept. 28; v. 278; p. 707.
Leather and enameled-goods polish. E. Brown & Son (Blacking & Boot Polish Manufacturers). No. 134,897; Sept. 21; v. 278; p. 530.
Leather-dressing for shoes. M. Sita. No. 135,073; Sept. 21; v. 278; p. 535.
Leather-dressings. Keiner & Pohl Company. No. 134,988; Sept. 21; v. 278; p. 532.
Leather goods. The Deco Co. No. 134,623; Sept. 14; v. 278; p. 354.
Leathers, Shoe and glove. Fred Rueping Leather Co. No. 135,327; Sept. 28; v. 278; p. 705.
Lighting units. Luminous Specialty Company. No. 135,275; Sept. 28; v. 278; p. 703.
Lights, Night-. United States Wax Corporation. No. 135,354; Sept. 28; v. 278; p. 706.
Liniment. G. H. Wood. No. 134,853; Sept. 14; v. 278; p. 362.
Liniment for rheumatism, &c. Aidol Medicine Co. No. 134,874; Sept. 21; v. 278; p. 529.
Liniment for rheumatism, headaches, cuts, bruises, burns, &c. Universal Remedies Company. No. 134,551; Sept. 7; v. 278; p. 161.
Liniment for the treatment of rheumatism. Jordan and Hamble Compounding Company. No. 134,984; Sept. 21; v. 278; p. 532.
Liniments, cough medicines, tonics, &c. The Polonia Drug Company. No. 134,767; Sept. 14; v. 278; p. 359.
Liquor, Distilled alcoholic. W. H. Chaplin Co. No. 134,483; Sept. 7; v. 278; p. 159.
Local anesthetic, sodium phenique compound, and dental medicines for treating pyorrhea. The Ransom & Randolph Company. No. 134,528; Sept. 7; v. 278; p. 160.
Lotion, Foot-. Gary Laboratories Company. No. 134,654; Sept. 14; v. 278; p. 355.
Lotion for chapped hands, sunburn, &c. Charles D. Clinton Co. No. 135,211; Sept. 28; v. 278; p. 701.
Lotions, Skin-. Mutual Drug Company. No. 135,288; Sept. 28; v. 278; p. 704.
Lubricant, Mining-machine. The United States Graphite Company. No. 135,095; Sept. 21; v. 278; p. 535.
Lunch-room equipments, Industrial. Chicago Hardware Foundry Company. No. 134,612; Sept. 14; v. 278; p. 354.
Lye, Powdered. The Sinclair Manufacturing Company. Nos. 134,805–6; Sept. 14; v. 278; p. 360.
Macaroni. E. M. Schisa. No. 134,537; Sept. 7; v. 278; p. 161.
Machinery. Chemical Equipment Company. No. 135,216; Sept. 28; v. 278; p. 701.
Magazine, Monthly. American Carpenter and Builder Co. No. 134,473; Sept. 7; v. 278; p. 159.
Magazine, Monthly. Brownstein-Louis Company. No. 135,204; Sept. 28; v. 278; p. 701.
Magazine, Monthly. Columbia Graphophone Company. No. 134,618; Sept. 14; v. 278; p. 354.
Magazine, Monthly. M. Heymann. No. 135,259; Sept. 28; v. 278; p. 703.
Magazine, Monthly. Lotus Magazine Foundation. No. 135,512; Sept. 7; v. 278; p. 160.
Magazine, Monthly. The Pierce-Arrow Motor Car Company. No. 134,763; Sept. 14; v. 278; p. 359.
Magazine-section. Photoplay Publishing Company. No. 134,526; Sept. 7; v. 278; p. 160.
Magazine, Weekly. Motion Picture News. No. 135,287; Sept. 28; v. 278; p. 704.
Magnetos and parts thereof and electrical condensers. Apollo Magneto Corporation. No. 134,573; Sept. 14; v. 278; p. 353.
Marmalade. James Robertson & Sons, Preserves Manufacturers. No. 135,311; Sept. 28; v. 278; p. 704.
Mats and runners, Leather table. Excello Mat Company. No. 134,640; Sept. 14; v. 278; p. 355.
Mats for automobiles, Fibrous rubber floor-board. Rub-Tex Organization Company. No. 134,533; Sept. 7; v. 278; p. 161.
Mattresses. Salisbury & Satterlee Co. No. 134,790; Sept. 14; v. 278; p. 359.
Mattresses. Silkheart Mattress Co. No. 134,804; Sept. 14; v. 278; p. 360.
Mattresses, Felt. The Mebane Bedding Co. No. 134,736; Sept. 14; v. 278; p. 358.
Mattresses, metal beds, couches, &c. Salisbury & Satterlee Co. No. 134,791; Sept. 14; v. 278; p. 359.
Medical compounds for cuts, bruises, burns, &c. J. M. Sears. No. 135,069; Sept. 21; v. 278; p. 535.
Medicated asthma and bronchial shields. B. A. Ludlow. No. 135,003; Sept. 21; v. 278; p. 533.

Medicament for the treatment of malignant blood diseases. The Collapsule Company. Nos. 134,914–15; Sept. 21; v. 278; p. 530.
Medicinal compound. Schweppes, Limited. No. 135,065; Sept. 21; v. 278; p. 535.
Medicinal compound for the liver. C. E. Evans. No. 134,636; Sept. 14; v. 278; p. 355.
Medicinal compound for use as a liver-regulator and general tonic. C. L. Bolt. No. 134,479; Sept. 7; v. 278; p. 159.
Medicinal powders, capsules, &c. Drug Products Co. No. 134,494; Sept. 7; v. 278; p. 159.
Medicinal preparation. C. L. Heffner. No. 134,679; Sept. 14; v. 278; p. 356.
Medicinal preparation externally used. Fitzgerald & Perry. No. 134,648; Sept. 14; v. 278; p. 355.
Medicinal preparation for cholera in hogs and poultry. L. Scott. No. 135,067; Sept. 21; v. 278; p. 535.
Medicinal preparation for coughs, croup, &c. W. S. Taylor. No. 135,345; Sept. 28; v. 278; p. 705.
Medicinal preparation of hexamethylenamin. The Ely Lilly & Company. No. 134,998; Sept. 21; v. 278; p. 533.
Medicinal tablet for the treatment of anemia and chlorosis. G. W. Carnrick Co. No. 134,899; Sept. 21; v. 278; p. 530.
Medicinal treatment for colds and grippe. R. W. Murray. No. 134,749; Sept. 14; v. 278; p. 358.
Medicine, Cathartic. L. E. Beach. No. 134,893; Sept. 21; v. 278; p. 529.
Medicine, Cough. U. S. Pharmaceutical Manufacturing Company. No. 134,524; Sept. 7; v. 278; p. 160.
Medicine for certain named diseases. Pomeroy and Company. No. 135,303; Sept. 28; v. 278; p. 704.
Medicine for colds, coughs, and other throat and lung diseases. W. E. Bard. No. 134,476; Sept. 7; v. 278; p. 159.
Medicine for constipation, pellagra, dropsy, &c. J. H. Mims. No. 134,550; Sept. 7; v. 278; p. 161.
Medicine for gall-stones and gravel. W. R. Jeffery. No. 134,962; Sept. 21; v. 278; p. 532.
Medicine for ground-itch on children and sorehead on chickens. R. Allen. No. 134,563; Sept. 14; v. 278; p. 353.
Medicine for headache, neuritis, colds, &c. H. G. Wilson. No. 134,849; Sept. 14; v. 278; p. 361.
Medicine for the treatment of mumps, measles, cholera, and liver troubles in hogs. Sons and Daughters of Levi. No. 134,817; Sept. 14; v. 278; p. 360.
Medicine for tick-fever in animals. Lone Prairie Remedies Co. No. 134,719; Sept. 14; v. 278; p. 357.
Medicine for the treatment of tuberculosis, bronchitis, and asthma. J. W. Wood. No. 135,169; Sept. 21; v. 278; p. 538.
Medicine used in the treatment of chills, fever, malaria, &c. F. B. McCrackin. No. 134,725; Sept. 14; v. 278; p. 358.
Medicine used in the treatment of tuberculosis. M. Hall. No. 134,674; Sept. 14; v. 278; p. 356.
Medicine for stomach, bowel, liver, and similar troubles for the blood. The Atlantic Remedies Co. No. 134,580; Sept. 14; v. 278; p. 353.
Medicines for liver, kidneys, and stomach troubles, Compound of. Melton Medicine Company. No. 135,012; Sept. 21; v. 278; p. 533.
Medicines for the prevention of infections of the urinary tract. E. Fougera & Co. No. 134,650; Sept. 14; v. 278; p. 355.
Milk-chocolate. Carnation Milk Products Company. No. 135,209; Sept. 28; v. 278; p. 701.
Mirrors and picture-frames, Hand and bonnet. Samstag & Hilder Bros. No. 134,793; Sept. 14; v. 278; p. 360.
Mirrors, Automobile-. J. J. Kunsemann. No. 134,990; Sept. 21; v. 278; p. 532.
Mirrors, Hand, wall, and stand. The Ames Bonner Company. No. 134,569; Sept. 14; v. 278; p. 353.
Music-playing instruments and music-rolls therefor, Mechanical. The Wilcox & White Co. No. 134,847; Sept. 14; v. 278; p. 361.
Musical-instrument strings. Armour and Company. Nos. 134,575–6; Sept. 14; v. 278; p. 353.
Musical-instrument strings. M. E. Schoening Co. Nos. 135,330–1; Sept. 28; v. 278; p. 705.
Musical instruments. New York Band Instr. Co. No. 134,752; Sept. 14; v. 278; p. 358.
Musical instruments of the bugle and trumpet type, Wind. C. G. Conn, Ltd. No. 134,619; Sept. 14; v. 278; p. 354.
Napkins, Sanitary. The Cellucotton Products Co. No. 134,900; Sept. 21; v. 278; p. 530.
Needles, pins, button-hooks, &c., Hand-. Morris & Yeomans. No. 134,516; Sept. 7; v. 278; p. 160.
Needles, Sewing-machine. Union Special Machine Corporation. No. 135,351; Sept. 28; v. 278; p. 706.
Newspapers. W. A. Neff. No. 135,290; Sept. 28; v. 278; p. 704.
Newspaper-section. Evening News Publishing Company. No. 134,638; Sept. 14; v. 278; p. 355.
Newspaper, Weekly. Catholic News Publishing Company. No. 134,607; Sept. 14; v. 278; p. 354.
Newspapers. The Dallas Saturday Night Company. No. 134,622; Sept. 14; v. 278; p. 354.
Notions. The Narrow Fabric Co. No. 134,750; Sept. 14; v. 278; p. 358.
Oars, sweeps, and sculls. New York Boat Oar Co. No. 135,024; Sept. 21; v. 278; p. 533.
Oil, Cod-liver. Scott & Bowne. No. 135,333; Sept. 28; v. 278; p. 705.
Oil for cutaneous diseases of animals, Medicated crude. Hawkeye Oil Company. No. 134,965; Sept. 21; v. 278; p. 532.
Oil for use in making cores in foundries. A. Ohmstead. No. 135,294; Sept. 28; v. 278; p. 704.
Oil, Lubricating-. Charleston Oil Company. No. 134,610; Sept. 14; v. 278; p. 354.
Oil, Olive-. A. Gallard. Nos. 134,500–1; Sept. 7; v. 278; p. 160.
Oil, Road-. Headley Good Roads Company. No. 134,507; Sept. 7; v. 278; p. 160.
Oil substitute, Linseed-. Douglas Paint Oil Co. No. 134,633; Sept. 14; v. 278; p. 355.
Oil to be used in emulsifying raw oils, Sulfureted. E. F. Kick. No. 134,700; Sept. 14; v. 278; p. 357.
Oil used in the treatment of woolen fabrics. The American Oil Company. No. 134,879; Sept. 21; v. 278; p. 529.
Oils and greases, Lubricating. Columbia Refining Co. No. 134,916; Sept. 21; v. 278; p. 530.
Oils and greases, Lubricating. United Products & Sales Corporation. No. 134,836; Sept. 14; v. 278; p. 361.
Oils and greases, Lubricating. W. B. Dick & Company. No. 134,630; Sept. 14; v. 278; p. 355.
Oils, fluids, and compounds for waterproofing textiles and acidproofing fluids. E. L. Smith. No. 135,336; Sept. 28; v. 278; p. 705.
Oils, Lubricating-. Magnolia Petroleum Company. No. 135,279; Sept. 28; v. 278; p. 703.
Ointment. E. H. Koss. No. 134,704; Sept. 14; v. 278; p. 357.
Ointment and tablets for the treatment of colds, influenza, &c. Fesler & Company. No. 134,646; Sept. 14; v. 278; p. 355.
Ointment, Antiseptic and healing. H. T. Melhuish. No. 134,740; Sept. 14; v. 278; p. 358.
Ointment for piles. Mrs. J. C. Cunningham. No. 134,925; Sept. 21; v. 278; p. 530.
Ointment for pimples, dandruff, and eczema. J. F. Gallaher. No. 134,951; Sept. 21; v. 278; p. 531.
Ointment, Scalp-. L. J. Larivee. No. 134,993; Sept. 21; v. 278 p. 532.
Oleomargarin. Middlesex County Creamery Co. No. 135,013; Sept. 21; v. 278; p. 533.
Optical apparatus for magnifying and viewing stereoscopic, transparent, and photographic plates. Scientific Materials Company. No. 135,332; Sept. 28; v. 278; p. 705.
Overalls. Rosenbaum Brothers. No. 134,785; Sept. 14; v. 278; p. 359.
Overalls for children. E. A. Hill. No. 134,967; Sept. 21; v. 278; p. 532.
Overalls, overall shirts, jackets, and pants. Bell Manufacturing Company. No. 135,198; Sept. 28; v. 278; p. 701.
Packing. J. Crane. No. 134,489; Sept. 7; v. 278; p. 159.
Packing, Metallic rod-. Rhodes Metallic Packing Co. No. 134,529; Sept. 7; v. 278; p. 160.
Packing, Metallic rod-. Rhodes Metallic Pack Co. No. 135,064; Sept. 21; v. 278; p. 534.
Padlocks, night-latches, &c. Simmons Hardware Company. No. 135,334; Sept. 28; v. 278; p. 705.
Pads, Forehead and under-chin. Radior Co. Ltd. of London. No. 134,776; Sept. 14; v. 278; p. 359.
Paints and enamel paints, Dry, ready-mixed, and paste. Standard Varnish Works. No. 135,077; Sept. 21; v. 278; p. 535.
Paint, Cold-water. A. E. Maire. No. 134,729; Sept. 14; v. 278; p. 358.
Paints, &c., Dry and water paste. A. B. Ansbacher & Company, Inc. Nos. 134,571–2; Sept. 14; v. 278; p. 353.
Paints and painters' materials. The Glidden Company. Nos. 134,658–9; Sept. 14; v. 278; pp. 355–6.
Paints and painters' materials and a furniture polish. Gerstendorfer Bros. No. 134,657; Sept. 14; v. 278; p. 355.
Paints and varnishes. D. H. Brandes. No. 134,601; Sept. 14; v. 278; p. 354.
Paper, Printing and writing. Henry Lindenmeyer & Sons. No. 135,274; Sept. 28; v. 278; p. 703.
Paper and envelops, Writing-. National Papeterie Company. No. 135,023; Sept. 21; v. 278; p. 533.
Paper and mailing-envelops. Forest Paper Company. No. 134,946; Sept. 21; v. 278; p. 531.
Paper and mailing-envelops, Writing-. American Writing Paper Company. No. 134,882; Sept. 21; v. 278; p. 529.
Paper and stationery, Writing-. White & Wyckoff Manufacturing Company. No. 135,165; Sept. 21; v. 278; p. 537.
Paper and writing-tablets. The Paper Mills Company. No. 135,032; Sept. 21; v. 278 p. 534.
Paper bags. Victory Bag & Paper Co. Nos. 135,008–9; Sept. 21; v. 278; p. 536.
Paper boxes and cartons. P. Zalkind. No. 134,855; Sept. 14; v. 278; p. 362.
Paper, Filter-. Henry Kayser & Fils. No. 134,987; Sept. 21; v. 278; p. 532.
Paper hangings. The Wall Paper Manufacturers. No. 134,556; Sept. 7; v. 278; p. 161.
Paper holders, Memorandum-. Accounting Machine Company. No. 134,869; Sept. 21; v. 278; p. 529.

Paper or pulp towels. The Lily Cup Company. No. 135,001; Sept. 21; v. 278; p. 533.
Paper, Printing-. The Whitaker Paper Company. No. 135,164; Sept. 21; v. 278; p. 537.
Paper-pulp. The Procter and Gamble Company. No. 134,772; Sept. 14; v. 278; p. 359.
Paper-pulp. The Procter and Gamble Company. No. 135,304; Sept. 28; v. 278; p. 704.
Paper-stock, book, newspaper, and wrapping paper, Finished. Morey and Company. No. 135,018; Sept. 21; v. 278; p. 533.
Paper, Waterproof wrapping and lining. Angier Mills. No. 134,745; Sept. 14; v. 278; p. 358.
Paper, Wrapping-. Moore & Thompson Paper Company. No. 135,017; Sept. 21; v. 278; p. 533.
Paper, Wrapping-. Whitaker Paper Company. No. 135,163; Sept. 21; v. 278; p. 537.
Paper, Writing-. Fox River Paper Company. No. 134,859; Sept. 14; v. 278; p. 363.
Paper, Writing and printing. American Writing Paper Company. No. 134,883; Sept. 21; v. 278; p. 529.
Papers and inked ribbons, Carbon-. H. G. Tilleman. No. 135,093; Sept. 21; v. 278; p. 535.
Papers, Writing, printing, blotting, and wrapping. Parsons & Whittemore. No. 135,036; Sept. 21; v. 278; p. 534.
Parcel-post packages. Par Po. Mfg. Co. No. 135,033; Sept. 21; v. 278; p. 534.
Paste for skin irritations, bites, and poisonings. F. W. Schoonmaker, Incorporated. No. 134,798; Sept. 14; v. 278; p. 360.
Pearls. Monroe Block & Co. No. 134,597; Sept. 14; v. 278; p. 354.
Pedals for bicycles, tricycles, motorcycles, &c. The Torrington Company. No. 135,375; Sept. 28; v. 278; p. 708.
Pens, Fountain-. W. J. May & Co. No. 135,280; Sept. 28; v. 278; p. 703.
Perfume, toilet water, sachet powder, &c. Richard Hudnut. No. 134,684; Sept. 14; v. 278; p. 356.
Perfumery. McKesson & Robbins. No. 134,514; Sept. 7; v. 278; p. 160.
Periodical published weekly. Funk & Wagnalls Company. No. 135,245; Sept. 28; v. 278; p. 702.
Periodicals, Semi-annual. R. T. Hardy. No. 134,676; Sept. 14; v. 278; p. 356.
Pharmaceutical preparation used in dressing the hair and cleaning the scalp. O. P. Strayborn. No. 135,081; Sept. 21; v. 278; p. 535.
Phonograph-cabinets. Grimwood Bros. No. 134,671; Sept. 14; v. 278; p. 356.
Phonograph-diaphragms. Allen Mica Co. No. 135,189; Sept. 28; v. 278; p. 701.
Phonograph-mountings. J. E. Gibson. No. 134,955; Sept. 21; v. 278; p. 531.
Phonograph-needles. The Torrington Company. No. 135,187; Sept. 21; v. 278; p. 540.
Phonographs. A. A. Manghisi. No. 134,732; Sept. 14; v. 278; p. 358.
Phonographs. Grand Rapids School Equipment Co. No. 134,664; Sept. 14; v. 278; p. 356.
Phonographs. Plymouth Phonograph Co. No. 134,765; Sept. 14; v. 278; p. 359.
Phonographs and phonograph-cabinets. The Western News Company. No. 135,161; Sept. 21; v. 278; p. 537.
Phonographs, records, and needles. Beacon Phonograph Company. No. 134,592; Sept. 14; v. 278; p. 354.
Photographic developer. The Wilbur White Chemical Co. No. 135,166; Sept. 21; v. 278; p. 537.
Photographic developers. Society of Chemical Industry in Basle. No. 135,075; Sept. 21; v. 278; p. 535.
Physic for children. J. L. Greenbaum. No. 134,668; Sept. 14; v. 278; p. 356.
Piano, &c., polish. L. M. Thornton. No. 134,544; Sept. 7; v. 278; p. 167.
Pianos. The Chute & Butler Co. No. 135,210; Sept. 28; v. 278; p. 701.
Pianos. Paul G. Mehlin & Sons. No. 134,738; Sept. 14; v. 278; p. 358.
Pianos. Horace Waters & Co. No. 134,866; Sept. 14; v. 278; p. 363.
Pianos. C. C. and E. E. Conway and T. P. Brown, trustees. No. 134,919–23; Sept. 21; v. 278; p. 530.
Pianos. C. C. and E. E. Conway and T. P. Brown, trustees. Nos. 135,213–15; Sept. 28; v. 278; p. 701.
Pianos and piano-players. H. C. Bay Company. Nos. 134,589–91; Sept. 14; v. 278; pp. 353–4.
Pianos, Player-. Herzfeld-Phillipson Company. No. 135,258; Sept. 28; v. 278; p. 703.
Pianos, player-pianos, and piano-players. The Baldwin Company. No. 134,584; Sept. 14; v. 278; p. 352.
Pianos, Vacuum-creating apparatus for player-. H. W. Yeager & Co. No. 135,171; Sept. 21; v. 278; p. 538.
Pianofortes, grand and upright pianos, and piano-players. J. & C. Fischer. No. 134,647; Sept. 14; v. 278; p. 355.
Picture films, Moving-. Funk & Wagnalls Company. No. 135,244; Sept. 28; v. 278; p. 702.
Picture films, Moving-. Funk & Wagnalls. No. 135,246; Sept. 28; v. 278; p. 702.
Piece goods. Charles E. Lindh, Inc. No. 134,510; Sept. 7; v. 278; p. 160.
Pile-fabric piece goods. The Hind & Harrison Plush Co. No. 134,968; Sept. 21; v. 278; p. 532.
Pipe-bits, cigar and cigarette holders, Hard-rubber. American Hard Rubber Company. No. 134,877; Sept. 21; v. 278; p. 529.
Pipe, wire, and nails, Iron and steel. The Youngstown Sheet & Tube Company. No. 134,868; Sept. 14; v. 278; p. 363.
Pipes, cigar and cigarette holders, Smoker's. Kaufmann Bros. & Bondy. No. 134,986; Sept. 21; v. 278; p. 532.
Piston-rings. J. H. Wasserman. No. 134,557; Sept. 7; v. 278; p. 161.
Placket-fasteners, glove-fasteners, hand sewing-needles, &c. Waldes & Co. Nos. 134,554–5; Sept. 7; v. 278; p. 161.
Plaster of Paris for dentists' and surgeons' use in laboratory work, Non-adhesive. Newark Plaster Company. No. 134,751; Sept. 14; v. 278; p. 358.
Plasters, Medicated. Bauer & Black. No. 134,890; Sept. 21; v. 278; p. 529.
Polish, cleaning, and preserving preparations for stoves. Russia Cement Company. No. 134,787; Sept. 14; v. 278; p. 359.
Polish, Metal-. C. E. Calbreath. No. 134,898; Sept. 21; v. 278; p. 530.
Polishing and cleaning liquid. L. A. Block. No. 134,596; Sept. 14; v. 278; p. 354.
Polishing preparation for automobiles, carriages, coaches, floors, &c. Hawk-Eye Mfg. Company. No. 134,964; Sept. 21; v. 278; p. 532.
Pouches, Tobacco-. Pearson Products Corporation. No. 135,037; Sept. 21; v. 278; p. 534.
Powder-puff. L. R. Rose. No. 135,062; Sept. 21; v. 278; p. 534.
Powder, Toilet. G. B. Evans. Nos. 134,938–9; Sept. 21; v. 278; p. 531.
Powders, milk of magnesia, cough-syrup, &c., Talcum and chafing. United Drug Company. No. 134,548; Sept. 7; v. 278; p. 161.
Preparation for a medicinal tonic for the stomach, kidneys, liver, and bowels. T. G. Walton. No. 134,559; Sept. 7; v. 278; p. 161.
Preparation for polishing automobiles, furniture, and stained and hardwood floors, Waxy. A. G. Briggs. No. 134,602; Sept. 14; v. 278; p. 354.
Preparation for relief of headaches and neuralgia. Vancouver Drug Company. No. 134,553; Sept. 7; v. 278; p. 161.
Preparation for shaving and skin-healing purposes. The Napco Corporation. No. 135,022; Sept. 21; v. 278; p. 533.
Preparation for softening water. California Soda Products Co. No. 134,606; Sept. 14; v. 278; p. 354.
Preparation for the treatment of certain named diseases. Wright & Lawrence. No. 134,854; Sept. 14; v. 278; p. 362.
Preparation for the treatment of consumption and tuberculosis. Stanley & Griffin. No. 134,670; Sept. 14; v. 278; p. 356.
Preparation for the treatment of the teeth. The Pemetine Company. No. 134,522; Sept. 7; v. 278; p. 160.
Preparation having deodorant, antiseptic, and perspiration-absorbent properties. United Drug Company. No. 134,835; Sept. 14; v. 278; p. 361.
Preparation, Liquid. The Master Builders Company. No. 134,755; Sept. 14; v. 278; p. 358.
Preparation, Liquid blood-purifying. A. Dobrickas. No. 135,224; Sept. 28; v. 278; p. 702.
Preparations for diseases of the nose and throat. E. J. Sormani. No. 135,339; Sept. 28; v. 278; p. 705.
Preparations for headache, colds, grippe, &c. F. A. Norwood. No. 134,519; Sept. 7; v. 278; p. 160.
Preparations for surface finish in the nature of a varnish, Liquid. Van Camp Hardware & Iron Company. No. 134,838; Sept. 14; v. 278; p. 361.
Preparations for the treatment of eczema, &c. E. M. Leakman. No. 134,991; Sept. 21; v. 278; p. 532.
Printing-presses and parts thereof. Liesenby Manufacturing Company. No. 134,511; Sept. 7; v. 278; p. 160.
Prints and publications. Medical Society—American Branch. No. 134,737; Sept. 14; v. 278; p. 358.
Publications. Poor's Publishing Company. No. 134,770; Sept. 14; v. 278; p. 359.
Pumps, pumping machinery, jet and surface condensers, Steam-. The Chalmers Pump & Manufacturing Company. No. 135,176; Sept. 21; v. 278; p. 539.
Radiator compound for internal-combustion engines. The Chamberlain-Haber Chemical Co. No. 134,482; Sept. 7; v. 278; p. 159.
Radio telegraph and telephone apparatus. Kilbourne & Clark Manufacturing Co. No. 134,702; Sept. 14; v. 278; p. 357.
Refrigerators. Harder Manufacturing Corporation. Nos. 135,254–5; Sept. 28; v. 278; p. 703.
Remedies, cough medicine, liniment, hair-tonic, Corn. J. C. Jonas. No. 134,695; Sept. 14; v. 278; p. 357.
Remedies, Laxative medicinal. E. R. Marten. No. 134,733; Sept. 14; v. 278; p. 358.
Remedies, Scalp. T. J. Yntema. No. 135,172; Sept. 21; v. 278; p. 538.
Remedies, Toothache. L. H. Gloeckler. No. 134,957; Sept. 21; v. 278; p. 531.
Remedy against dandruff and falling out of hair, &c. R. M. Holguin. No. 134,681; Sept. 14; v. 278; p. 356.
Remedy for falling hair, dandruff, and scalp diseases. S. B. Deaderick. No. 134,492; Sept. 7; v. 278; p. 159.

Remedy for piles. A. M. Sharkey. No. 135,072; Sept. 21; v. 278; p. 535.
Remedy for various affections of the lungs and relief of consumptive and asthmatic patients, Internal. V. L. Blahnik & Sons. No. 134,478; Sept. 7; v. 278; p. 159.
Remedy for venereal diseases. M. Leprince. No. 134,966; Sept. 21; v. 278; p. 532.
Remedy for war-wounds, old sores, &c. A. N. Martin. No. 135,011; Sept. 21; v. 278; p. 533.
Remedy to promote the growth of the hair. C. Poetsl. No. 134,766; Sept. 14; v. 278; p. 359.
Remedy, Toothache. The Dentamina Trading Co. No. 134,499; Sept. 7; v. 278; p. 160.
Rennet powder and photographic developers. Fabrique de Produits Chimiques Flora. No. 134,496; Sept. 7; v. 278; p. 159.
Respirators, respirator masks and hoods, &c. American La France Fire Engine Co., Inc. No. 134,567; Sept. 14; v. 278; p. 353.
Ribbons. Pelgram & Meyer. No. 134,521; Sept. 7; v. 278; p. 160.
Rice. W. T. Wellsch & Co. Nos. 135,104–158; v. 278; pp. 536–7.
Roofing, Heat and cold insulating materials, &c. The Philip Carey Manufacturing Company. No. 134,525; Sept. 7; v. 278; p. 160.
Roofing, Prepared. Carpenter-Morton Company. No. 134,480; Sept. 7; v. 278; p. 159.
Roofings, Steel fire-resisting and surface. The Farm Equipment Co. No. 134,642; Sept. 14; v. 278; p. 355.
Rosin. Rosin & Turpentine Export Company. Nos. 135,313–24; Sept. 28; v. 278; pp. 704–5.
Rubber elevator-belts reinforced with fabric. The B. F. Goodrich Company. No. 134,661; Sept. 14; v. 278; p. 356.
Rubber erasers. Joseph Dixon Crucible Company. Nos. 134,928–9; Sept. 21; v. 278; p. 530.
Rubber heels. The Lorain Rubber Heel Company. No. 135,270; Sept. 28; v. 278; p. 703.
Rubber merchandise, Manufactured. General Rubber Goods Company. No. 134,954; Sept. 21; v. 278; p. 531.
Rubbers, Jar-. Walker, Matteson Company. No. 134,842; Sept. 14; v. 278; p. 361.
Saffron. H. Schoenfeld. No. 134,797; Sept. 14; v. 278; p. 360.
Sales-counters, display racks and cabinets, &c. Bake-Rite Mfg. Company. No. 134,583; Sept. 14; v. 278; p. 353.
Salt, Table-. International Salt Co. of New York. No. 134,979; Sept. 21; v. 278; p. 532.
Salve. W. C. Sunderland. No. 134,543; Sept. 7; v. 278; p. 161.
Salve and a liniment. A. C. Chapa. No. 134,609; Sept. 14; v. 278; p. 354.
Salve, Cold, croup, and pneumonia. Hunt Chemical Company. No. 134,686; Sept. 14; v. 278; p. 356.
Salve for bruises, pimples, eczema, and all skin diseases. T. Safronik. No. 134,789; Sept. 14; v. 278; p. 359.
Salve for influenza, asthma, &c. Brame Drug Company. No. 135,200; Sept. 28; v. 278; p. 701.
Salve for the treatment of all skin diseases. M. Anderson. No. 134,884; Sept. 21; v. 278; p. 529.
Salve or ointment, for catarrh, hay-fever, burns, &c. S. D. Clark. No. 134,485; Sept. 7; v. 278; p. 159.
Salve, Stainless croup and pneumonia. Hunt Chemical Company. No. 134,685; Sept. 14; v. 278; p. 356.
Sardines. Lawrence Canning Co. No. 134,710; Sept. 14; v. 278; p. 357.
Seed, Tobacco-. W. S. Judy. No. 134,696; Sept. 14; v. 278; p. 357.
Seeds. Stanford Seed Co. No. 134,820; Sept. 14; v. 278; p. 360.
Seeds, Agricultural. Randall-McLoughlin Co. No. 134,777; Sept. 14; v. 278; p. 359.
Seeds, Garden, field, and flower. John A. Salzer Seed Co. No. 134,792; Sept. 14; v. 278; p. 360.
Shellac, Gum-. Automotive Supply Company. No. 135,194; Sept. 28; v. 278; p. 701.
Sherry. W. H. Chaplin & Company. No. 134,484; Sept. 7; v. 278; p. 159.
Shirts and overalls, Work-. A. Rifkin. No. 135,056; Sept. 21; v. 278; p. 534.
Shirts, and soft collars, Dress and negligée. E. L. Barton. No. 134,585; Sept. 14; v. 278; p. 353.
Shirts, Dress, negligée, and work. Samuel London & Co. Inc. No. 134,718; Sept. 14; v. 278; p. 357.
Shirts, (dress, negligée, and work,) collars, and cuffs. The Quaker City Shirt Manufacturing Company. No. 134,775; Sept. 14; v. 278; p. 359.
Shoe-lasts. The Crawford McGregor & Canby Company. No. 134,621; Sept. 14; v. 278; p. 354.
Shoe-polishes, &c. Griffin Manufacturing Co. No. 135,250; Sept. 28; v. 278; p. 702.
Shoes. Lord & Taylor. No. 135,271; Sept. 28; v. 278; p. 703.
Shoes. The W. E. Tuttle Co. No. 134,833; Sept. 14; v. 278; p. 361.
Shoes. The Wise, Shaw & Feder Company. No. 134,852; Sept. 14; v. 278; p. 362.
Shoes, Athletic. Wisconsin Shoe Company. No. 134,851; Sept. 14; v. 278; p. 361.
Shoes, Leather, &c. H. C. Blaser. No. 134,643; Sept. 14; v. 278; p. 355.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 134,931–5; Sept. 21; v. 278; p. 531.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 135,227–32; Sept. 28; v. 278; p. 702.
Silk, wool, &c., piece goods. Chatillon, Mosly, Roussel & Co. No. 134,904; Sept. 21; v. 278; p. 530.
Silks, satins, velvets, broadcloths, serge in the piece. J. Metzler. No. 134,742; Sept. 14; v. 278; p. 358.
Sioris, Pantelis A., New York, N. Y. Weekly newspapers. No. 134,807; Sept. 14; v. 278; p. 360.
Sleds and wheeled coasters, Children's. A. W. Anderson. No. 135,192; Sept. 28; v. 278; p. 701.
Slippers. United States Rubber Company. No. 135,353; Sept. 28; v. 278; p. 706.
Slippers. Worcester Felt Goods Company. No. 135,365; Sept. 28; v. 278; p. 706.
Soap. B. Altman & Co. No. 134,565; Sept. 14; v. 278; p. 353.
Soap. H. Clarke & Sons. No. 134,910; Sept. 21; v. 278; p. 530.
Soap. George Borgfeldt & Co. No. 135,199; Sept. 28; v. 278; p. 701.
Soap. A. Kasser. No. 134,697; Sept. 14; v. 278; p. 357.
Soap. Lange Soap Co. No. 134,992; Sept. 21; v. 278; p. 532.
Soap. The Mills Brothers Company. No. 135,015; Sept. 21; v. 278; p. 533.
Soap. B. Parker. No. 134,760; Sept. 14; v. 278; p. 359.
Soap. The Procter and Gamble Company. No. 134,778; Sept. 14; v. 278; p. 359.
Soap. The Procter and Gamble Company. No. 135,047; Sept. 21; v. 278; p. 534.
Soap. M. W. M. Soap Co. No. 135,008; Sept. 21; v. 278; p. 533.
Soap and soap chips. Pacific Coast Borax Co. No. 135,028; Sept. 21; v. 278; p. 533.
Soap flakes. Chas. W. Young & Co. No. 135,173; Sept. 21; v. 278; p. 538.
Soap flakes. S. I. Welsher. No. 135,159; Sept. 21; v. 278; p. 537.
Soap, Hand-. The Cope-Walton Co. No. 134,620; Sept. 14; v. 278; p. 354.
Soap, Liquid. The Hexter Stewart Corporation Company. No. 134,966; Sept. 21; v. 278; p. 532.
Soap, Paste. The Ohio Varnish Company. No. 134,755; Sept. 14; v. 278; p. 358.
Soap, shaving-sticks, cream, and powder. American Safetee Soap Corporation. No. 134,880; Sept. 21; v. 278; p. 529.
Soap, Toilet and shaving. Solon Palmer. No. 134,757; Sept. 14; v. 278; p. 358.
Soaps. The Omega Chemical Company. No. 135,027; Sept. 21; v. 278; p. 533.
Soil-filling machines. The Dunham Company. No. 134,930; Sept. 21; v. 278; p. 530.
Songs, sheet-music, and book of songs. Printed. Wallace & Freed, Incorporated. No. 134,843; Sept. 14; v. 278; p. 361.
Spark-plug intensifiers. J. F. Wing. No. 134,850; Sept. 14; v. 278; p. 361.
Spark-plugs. The Arc-O'-Manufacturing Co. Nos. 134,886–7; Sept. 21; v. 278; p. 529.
Spark-plugs. Penn Mfg. Co. No. 135,298; Sept. 28; v. 278; p. 704.
Stalls and doors and shower bath partitions, Toilet. Betz Bros., Inc. No. 134,857; Sept. 14; v. 278; p. 363.
Stationery. T. Nakayama. No. 135,021; Sept. 21; v. 278; p. 533.
Staves. Foxley Stave & Lumber Co., Ltd. No. 134,860; Sept. 14; v. 278; p. 363.
Steering-gears and motor-vehicles. Gemmer Manufacturing Company. No. 135,179; Sept. 21; v. 278; p. 539.
Stencils, oil-board, wax seals, and rubber bands. Henry Moss & Co. No. 135,020; Sept. 21; v. 278; p. 533.
Stove-polish. Hoosier Chemical Company. No. 134,682; Sept. 14; v. 278; p. 356.
Suits and knickerbockers, Boys'. Elgart Specialty Clothing Co. No. 135,234; Sept. 28; v. 278; p. 702.
Suits and overcoats, Men's and young men's. S. Bacharach and Company. No. 134,582; Sept. 14; v. 278; p. 353.
Suits, Children's sleeping-. R. H. Macy & Co. No. 135,010; Sept. 21; v. 278; p. 533.
Suits, Men's. G. W. Smith. No. 135,337; Sept. 28; v. 278; p. 705.
Suits, overcoats, and caps, Boys'. I. Gross. No. 134,961; Sept. 21; v. 278; p. 531.
Suits, shirts, and drawers, Union-. Morris Isaac & Sons. No. 135,265; Sept. 28; v. 278; p. 703.
Suits, Young men's three-piece. Samuel W. Peck & Co. No. 135,089; Sept. 21; v. 278; p. 534.
Suppositories, Rectal. J. B. Gooken. No. 134,663; Sept. 14; v. 278; p. 356.
Sweaters, blouses, work-shirts, &c. Excello Merchandise Co. No. 135,237; Sept. 28; v. 278; p. 702.
Syrup and beverage made therefrom, non-alcoholic maltless. Richardson Corporation. No. 134,781; Sept. 14; v. 278; p. 359.
Tables, Serving-. The John Van Range Co. No. 134,839; Sept. 14; v. 278; p. 361.
Tablets, Anesthetic. Dental Products Company. No. 134,927; Sept. 21; v. 278; p. 530.
Tablets and tonic, Laxative. Retona Products Company. No. 134,779; Sept. 14; v. 278; p. 359.
Tablets, Laxative. G. G. Dillow. No. 134,631; Sept. 14; v. 278; p. 355.

Tablets, pills, and capsules, Headache. Eli Lilly & Company. No. 134,999; Sept. 21; v. 278; p. 533.
Talking-board or question-answering device. C. C. Turner. No. 135,349; Sept. 28; v. 278; p. 706.
Talking-machine needles. Plasa Music Co. No. 135,043; Sept. 21; v. 278; p. 534.
Talking-machine records. Columbia Graphophone Manufacturing Company. No. 135,212; Sept. 28; v. 278; p. 701.
Talking-machines and parts thereof. Supertone Talking Machine Co. No. 135,087; Sept. 21; v. 278; p. 535.
Tanks, Oil-. Hammond Iron Works. No. 134,963; Sept. 21; v. 278; p. 532.
Tanks, tool-chests, and canteens for automobiles. S. C. Pandolfo. No. 134,759; Sept. 14; v. 278; p. 3.95
Tea. W. R. Grace & Co. No. 134,958; Sept. 21; v. 278; p. 531.
Telephone-index blank. J. F. Hutchinson. No. 134,975; Sept. 21; v. 278; p. 532.
Telephones and parts thereof. American Thermophone Company. No. 134,881; Sept. 21; v. 278; p. 529.
Tennis-rackets. F. L. Slazenger. No. 135,074; Sept. 21; v. 278; p. 535.
Therapeutic purposes, Apparatus for. McIntosh Battery and Optical Co. No. 134,726; Sept. 14; v. 274; p. 358.
Thread and yarn. H. E. Locke & Company. No 134,716; Sept. 14; v. 278; p. 357.
Thread and yarn. H. E. Locke & Company. No. 135,371; Sept. 28; v. 278; p. 707.
Tire-patch. R. L. Bartholomew. No. 134,477; Sept. 7; v. 278; p. 159.
Tire patches and inner liners, Automobile-. E. M. Steell. No. 134,822; Sept. 14; v. 278; p. 361.
Tire-repair outfits. The Palmer Tire Company. No. 134,758; Sept. 14; v. 278; p. 358.
Tires and inner tubes of rubber, Automobile. C. O. Williams. No. 135,168; Sept. 21; v. 278; p. 538.
Tires and treads therefor, Rubber and rubber and fabric vehicle-. The Goodyear Tire & Rubber Company. No. 135,370; Sept. 28; v. 278; p. 707.
Tires and tubes, Automobile. R. B. Piper. No. 135,042; Sept. 21; v. 278; p. 534.
Tires and tubes for vehicles, Rubber or rubber and fabric. McClaren Rubber Company. No. 134,724; Sept. 14; v. 278; p. 357.
Tires and tubes for vehicles, Rubber or rubber and fabric. McClaren Rubber Company. No. 135,006; Sept. 21; v. 278; p. 533.
Tires, Inner tubes for pneumatic. Spencer Carroll Company. No. 134,542; Sept. 7; v. 278; p. 161.
Tires, &c., Patches for inner tubes of automobile-. J. E. Sawyer. No. 134,535; Sept. 7; v. 278; p. 161.
Tires, Rubber. Gates Rubber Company. No. 134,655; Sept. 14; v. 278; p. 355.
Tires, Rubber. Liberty Steel Products Company. No. 134,712; Sept. 14; v. 278; p. 357.
Tires, tubes, and casing-patch. W. L. Tedford. No. 134,827; Sept. 14. v. 278; p. 361.
Tobacco, cigars, and cigarettes, Smoking and chewing. J. Christoforides. No. 134,613; Sept. 14; v. 278; p. 354.
Tobacco, Smoking-. United Drug Company. No. 134,834; Sept. 14; v. 278; p. 361.
Toilet preparation. E. D. Watkins. No. 135,101; Sept. 21; v. 278; p. 536.
Toilet preparations. Druggists Concentrates Co. No. 134,635; Sept. 14; v. 278; p. 355.
Toilet preparations. Lazell Perfumer. No. 134,711; Sept. 14; v. 278; p. 357.
Toilet preparations. Meyer Brothers Drug Company. No. 134,743; Sept. 14; v. 278; p. 358.
Toilet preparations. The Lustr-ite Corporation. No. 134,722; Sept. 14; v. 278. p. 357.
Toilet preparations. The United States Drug & Chemical Co. No. 134,549; Sept. 7; v. 278; p. 161.
Tonic, Bitter-wine. Scranton Distributing and Mfg. Co. No. 135,068; Sept. 21; v. 278; p. 535.
Tonic, Chill and fever. C. V. Knight. No. 134,989; Sept. 21; v. 278; p. 532.
Tonic for aiding the digestive organs and improving the appetite. W. J. Hurley. No. 134,688; Sept. 14; v. 278; p. 356.
Tonic for poultry. A. W. Chappell. No. 134,903; Sept. 21; v. 278; p. 530.
Tonic for the bowel action and improving the digestion. W. J. Hurley. No. 134,687; Sept. 14; v. 278; p. 356.
Tonic, General. G. L. Lilly. No. 135,000; Sept. 21; v. 278; p. 533.
Tonic, General medicinal. E. M. Welch. No. 131,103; Sept. 21; v. 278; p. 536.
Tonic, Laxative. The Manhattan Medicine Co. No. 134,515; Sept. 7; v. 278; p. 160.
Tonic, Medicinal. M. Wais. No. 135,100; Sept. 21; v. 278; p. 536.
Tonic, Reconstruction-. J. C. R. Charest. No. 134,902; Sept. 21; v. 278; p. 530.
Tool-grinding machines. Luther Grinder Manufacturing Company. No. 135,261; Sept. 28; v. 278; p. 703.
Tooth-paste. The Dentocide Chemical Co. No. 134,627; Sept. 14; v. 278; p. 355.
Tooth paste and powder. A. E. Peck Manufacturing Company. No. 135,038; Sept. 21; v. 278; p. 534.
Toothbrushes. Andersen, Meyer & Co. No. 135,191; Sept. 28; v. 278; p. 701.
Toothbrushes. C. Dierke. No. 134,493; Sept. 7; v. 278; p. 159.
Toy airplanes. Lawrence Airplane Model and Supply Company. No. 134,709; Sept. 14; v. 278; p. 357.
Toy airplanes. The Ritchie-Wertz Manufacturing Company. No. 135,057; Sept. 21; v. 278; p. 534.
Toy animals. M. Waterman. No. 135,101; Sept. 21; v. 278; p. 536.
Toy building-blocks. George Borgfeldt & Co. No. 134,599; Sept. 14; v. 278; p. 354.
Toy horse. J. Scanlon. No. 134,536; Sept. 7; v. 278; p. 161.
Toy hydro- and aero-planes. Great Northern Toy Co. No. 134,960; Sept. 21; v. 278; p. 531.
Toy vehicles. C. C. Church. No. 134,908; Sept. 21; v. 278; p. 530.
Toy vehicles. U and I Toy Company. No. 135,350; Sept. 28; v. 278; p. 706.
Toys and toy dishes, Mechanical. Wolverine Supply & Mfg. Co. No. 135,363; Sept. 28; v. 278; p. 706.
Tractors. Rein Drive Tractors, Limited. No. 135,053; Sept. 21; v. 278; p. 534.
Tractors. Wichita Motors Company. No. 135,376; Sept. 28; v. 278; p. 708.
Tractors and parts thereof. Cleveland Tractor Company. No. 135,175; Sept. 21; v. 278; p. 539.
Trailers. Highway Trailer Company. No. 135,262; Sept. 28; v. 278; p. 703.
Treatment of eye trouble, Liquid for. D. D. D. Company. No. 134,926; Sept. 21; v. 278; p. 530.
Trestles. The Safety Equipment Company. No. 134,788; Sept. 14; v. 278; p. 359.
Trucks and automobiles, Motor-. Hamilton Motors Company. No. 135,253; Sept. 28; v. 278; p. 703.
Trucks, Motor-. All-American Truck Company. No. 134,564; Sept. 14; v. 278; p. 353.
Trucks, Motor-. Indiana Truck Corporation. No. 134,691; Sept. 14; v. 278; p. 356.
Trucks, wagons, carts, drays, and vehicles, Automobile-. The O. Armleder Co. No. 134,574; Sept. 14; v. 278; p. 353.
Trunks, suitcases, traveling-bags, and handbags. Rogers & Madison Trunk Corporation. No. 134,784; Sept. 14; v. 278; p. 359.
Trunks, traveling-bags, suitcases, and brief-cases. Rice-Stix Goods Company. No. 134,780; Sept. 14; v. 278; p. 359.
Turpentine. Gaston, Williams & Wigmore. No. 132,247; Sept. 28; v. 278; p. 702.
Typewriting and printing, Non-carbonized paper. Powers Paper Company. No. 134,527; Sept. 7; v. 278; p. 160.
Typewriting machine and parts. Underwood Typewriter Company. No. 134,865; Sept. 14; v. 278; p. 363.
Umbrellas. John U. Burt Inc. No. 135,206; Sept. 28; v. 278; p. 701.
Undergarments, Children's and misses'. Fair Maid Undergarment Co., The. No. 134,641; Sept. 14; v. 278; p. 355.
Undervests, storm-vests, padded and quilted vests and jackets. J. A. Rainford. No. 135,049; Sept. 21; v. 278; p. 534.
Underwear for men and women. Hope Knitting Company. No. 134,683; Sept. 14; v. 278; p. 356.
Underwear for men and women. Watts, Ritter & Company. No. 134,846; Sept. 14; v. 278; p. 361.
Underwear, Men's and boy's athletic. Cohn, Goldwater Company. No. 134,617; Sept. 14; v. 278; p. 354.
Union-suits, Athletic. Premier Manufacturing Co. No. 135,046; Sept. 21; v. 278; p. 534.
Vegetable compound used as an aid to the blood. B. H. Spalding. No. 135,076; Sept. 21; v. 278; p. 535.
Velocipedes, Children's. The Adjustable Sales Corporation. No. 134,872; Sept. 21; v. 278; p. 529.
Velvet piece goods. James H. Dunham & Co. No. 135,226; Sept. 28; v. 278; p. 702.
Velvet, wool, and cashmere piece goods. Société Rodier. No. 135,061; Sept. 21; v. 278; p. 534.
Velvet, wool, and cashmere piece goods. Société Rodier. No. 135,059; Sept. 21; v. 278; p. 534.
Ventilators for exterior use on houses and buildings. Acme Ventilator Corporation. No. 134,870; Sept. 21; v. 278; p. 529.
Vermifuge and remedies for indigestion, biliousness, colds, &c. Dr. J. F. True & Co. No. 134,832; Sept. 14; v. 278; p. 361.
Wagons. The Holt Manufacturing Company. No. 134,971; Sept. 21; v. 278; p. 532.
Waists and blouses, Ladies'. A. R. Haas. No. 134,672; Sept. 14; v. 278; p. 356.
Waists for outer wear, Ladies' and misses'. The Arrow Brand Hemstitching & Tucking Co. No. 134,579; Sept. 14; v. 278; p. 353.
Wall-board and building-paper. Muro Wall Board Company. No. 134,517; Sept. 7; v. 278; p. 160.
Washing machines and mangles, Clothes-. J. Kashinsky. No. 135,266; Sept. 28; v. 278; p. 703.
Washing-powder. Citrus Soap Company. No. 134,909; Sept. 21; v. 278; p. 530.
Washing-powder, Citrus Soap Company. Nos. 135,217–19; Sept. 28; v. 278; pp. 701–2.
Washing-powder. F. O. Quinn. No. 135,048; Sept. 21; v. 278; p. 534.
Watches. Laubheim Bros. No. 134,995; Sept. 21; v. 278; p. 532.
Watches and watch-movements. Adolphe Schwob, Inc. No. 135,066; Sept. 21; v. 278; p. 535.

Watches, watch cases, works, and dials. Paul Forbriger & Co. No. 135,240; Sept. 28; v. 278; p. 702.
Watches, watch-movements, watch-cases, and parts thereof. American Swiss Watch Co. No. 134,568; Sept. 14; v. 278; p. 353.
Watches, watch-movements, &c. A. Wiss. No. 135,362; Sept. 28; v. 278; p. 706.
Water-cooler. The Sanibrass Corporation. No. 135,328; Sept. 28; v. 278; p. 705.
Water-heaters, &c., Gas, gasolene, and kerosene. The Sands Manufacturing Company. No. 134,794; Sept. 14; v. 278; p. 360.
Waterproof automobile textile material, &c. The W. J. Donnelly Company. No. 134,632; Sept. 14; v. 278; p. 355.
Waterproof fabrics in the piece. The Pantasote Leather Company. Nos. 135,030–1; Sept. 21; v. 278; p. 534.
Waterproofing and preserving automobile-tops, &c., Preparation for. W. B. Price. No. 134,771; Sept. 14; v. 278; p. 359.
Waterproofing, damp-proofing, and liquid hardener for cement and cement mixtures, Liquid. Anti-Hydro Waterproofing Company. No. 135,193; Sept. 28; v. 278; p. 701.
Waterproofing textiles, Chemical compounds for. The Chemical Company of America. No. 134,900; Sept. 21; v. 278; p. 530.
Wardrobes, Folding. Closgard Wardrobe Company. No. 134,616; Sept. 14; v. 278; p. 354.
Webs, Elastic. Faire Bros. & Co. No. 134,942; Sept. 21; v. 278; p. 531.
Wheels, Motor-vehicle. Baker Wheel & Rim Company. No. 135,197; Sept. 28; v. 278; p. 701.
Wines. J. de Burgos Luque. No. 135,005; Sept. 21; v. 278; p. 533.
Wines, Dealcoholised. Garrett and Company. No. 134,503; Sept. 7; v. 278; p. 160.
Wire and particularly magnet-wire. The Toledo Enameled Wire Products Co. No. 134,830; Sept. 14; v. 278; p. 361.
Witch-hazel, disinfectant, &c. F. P. Symonds. No. 135,088; Sept. 21; v. 278; p. 535.
Wool and cotton admixture piece goods. Edward Ripley & Son. No. 135,309; Sept. 28; v. 278; p. 704.
Woolen and cotton piece goods. Société Rodier. No. 135,060; Sept. 21; v. 278; p. 534.
Woolen piece goods. Forstmann & Huffmann Co. Nos. 135,242–3; Sept. 28; v. 278; p. 702.
Worsted cloth in the piece. International Worsted Mills. No. 134,980; Sept. 21; v. 278; p. 532.
Worsted in the piece, Light-weight all-wool. Cohen & Ehrenberg. No. 135,220; Sept. 28; v. 278; p. 702.
Wreath, Floral. G. L. Straub. No. 134,824; Sept. 14; v. 278; p. 361.
X-ray apparatus. J. J. Lowe. No. 134,721; Sept. 14; v. 278; p. 357.
Zinc stearate. The Stearyte Co. No. 135,079; Sept. 21; v. 278; p. 535.

ALPHABETICAL LIST OF LABELS.

"All In One Ointment." (For Ointment.) Shepherd & Cleveland. No. 22,169; Sept. 21; v. 278; p. 541.
"American Cloth." (For Cloth.) Peters Manufacturing Co. No. 22,163; Sept. 21; v. 278; p. 541.
"Asiago Basso." (For Cheese.) The Basso Co. No. 22,143; Sept. 21; v. 278; p. 541.
"Atlasette, The Glove I Love." (For Gloves.) Atlasette Gloves Inc. No. 22,142; Sept. 21; v. 278; p. 541.
"Bird Design." (For Cartons Containing Hairpins.) Sterling Pin Company. No. 22,137; Sept. 14; v. 278; p. 366.
"Black-Iron." (For Stove-Polishes.) Merrimac Packing Co. No. 22,126; Sept. 14; v. 278; p. 365.
"Bosack's Pelinko Horke Vino." (For a Medicinal Tonic.) Bosack, J. H., Mfg. Co. No. 22,100; Sept. 14; v. 278; p. 365.
"Caramels." (For Caramels.) Beech-Nut Packing Company. No. 22,093; Sept. 7; v. 278; p. 162.
"Chocolate Covered Cherries." (For Boxes Containing Chocolate-Covered Cherries.) Milwaukee Paper Box Company. No. 22,130; Sept. 14; v. 278; p. 365.
"Chocolate Covered Nougats." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,128; Sept. 14; v. 278; p. 365.
"Chocolates of Yore." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,159; Sept. 21; v. 278; p. 541.
"Cowhide." (For Overalls.) B. Laytin. No. 22,113; Sept. 14; v. 278; p. 365.
"Cream Manila Practice Paper, Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) Board of Education of Louisville, Kentucky. No. 22,094; Sept. 7; v. 278; p. 162.
"Cuban Grown." (For Cigars.) J. R. Isaacson. No. 22,109; Sept. 14; v. 278; p. 365.
"Dixie Chews." (For Candy.) Newark Paraffine & Parchment Paper Co. No. 22,132; Sept. 14; v. 278; p. 365.
"Dono The Square Donut." (For Doughnuts.) Leoffler Food Products Co. Inc. No. 22,114; Sept. 14; v. 278; p. 365.
"Dr. Emerick's Peacherb Laxative Tablets." (For Medicine for Constipation.) M. L. Emerick, M. D. No. 22,105; Sept. 14; v. 278; p. 365.
"Dr. Emerick's Peacherb Tablets, Fruit Herb and Vegetable Extracts and Dr. Emerick's Famous Laxative Base." (For Constipation, Biliousness, Dyspepsia, and Autotoxemia.) M. L. Emerick, M. D. No. 22,104; Sept. 14; v. 278; p. 365.
"Essex Poisoned Wheat." (For Poisoned Food for Rats, Mice, &c.) Louis L. Staehle. No. 22,170; Sept. 21; v. 278; p. 541.
"Euco-Mint." (For Packages Containing Tooth-Paste.) P. A. Mandabach. No. 22,156; Sept. 21; v. 278; p. 541.
"Garcia Silveria." (For Cigars.) The Greenmount Cigar Company. No. 22,107; Sept. 14; v. 278; p. 365.
"'Gaviota' (Sea Gull)." (For Artificial Fertilizer.) The Pacific Guano & Fertilizer Co. No. 22,160; Sept. 21; v. 278; p. 541.
"George's Cre-Me-Eat Complexion Cream." (For Containers for Medicated Cold-Cream.) G. A. Finkelman. No. 22,106; Sept. 14; v. 278; p. 365.
"Golden State." (For Powdered Skim-Milk.) California Central Creameries. No. 22,101; Sept. 14; v. 278; p. 365.
"Grapette." (For Beverage.) D. N. Goldberg. No. 22,149; Sept. 21; v. 278; p. 541.
"Grey Manilla Practice Paper, Louisville Public Schools." (For Pads of Drawing-Paper in the Public Schools.) Board of Education of Louisville, Kentucky. No. 22,095; Sept. 7; v. 278; p. 162.
"Gyft Chocolate from California." (For Boxes Containing Chocolates.) P. Hall. No. 22,150; Sept. 21; v. 278; p. 541.
"Harmony Forget-Me-Not Snaps." (For Snap-Fasteners.) Federal Snap Fastener Corporation. No. 22,148; Sept. 21; v. 278; p. 541.
"Her Candled Opinion." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,157; Sept. 21; v. 278; p. 541.
"Home Made." (For Bread.) Saniwax Paper Co. No. 22,166; Sept. 21; v. 278; p. 541.
"Home Pride." (For Flour.) J. Rumpel. No. 22,136; Sept. 14; v. 278; p. 366.
"Hunter Malt." (For a Malt-Syrup.) Olive H. Roth. No. 22,135; Sept. 14; v. 278; p. 365.
"Indian Ink." (For Ink.) The John J. Crooke Corporation. No. 22,103; Sept. 14; v. 278; p. 365.
"Jax." (For Cereal Beverages.) Jackson Brewing Company. No. 22,152; Sept. 21; v. 278; p. 541.
"Magic Hair Curlers." (For Applied or Fastened Hair-Curlers.) A. A. West. Nos. 22,172–3; Sept. 21; v. 278; p. 541.
"Magic Marvel." (For Packages Containing Washing-Powder.) L. Mitchell & Co. No. 22,131; Sept. 14; v. 278; p. 365.
"Martha Washington." (For Boxes of Stationery and Writing-Tablets.) White & Wyckoff Mfg. Co. No. 22,140; Sept. 14; v. 278; p. 366.
"Milk Maid." (For Bread.) Saniwax Paper Co. No. 22,167; Sept. 21; v. 278; p. 541.
"Mother's." (For Bread.) Saniwax Paper Co. No. 22,165; Sept. 21; v. 278; p. 541.
"My-O-My Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,127; Sept. 14; v. 278; p. 365.
"No-Leak-O Oilsealing." (For Piston-Rings.) No-Leak-O Piston Ring Company. No. 22,133; Sept. 14; v. 278; p. 365.
"Old Style Chocolate Creams." (For Boxes Containing Chocolate Creams.) Milwaukee Paper Box Company. No. 22,129; Sept. 14; v. 278; p. 365.
"Oriental." (For Shampoo.) L. H. Lee. No. 22,155; Sept. 21; v. 278; p. 541.
"Perma-Tite Household Patch." (For Packages Containing a Household Patch for Patching Rubber Goods.) Permatite Manufacturing Company, Inc. No. 22,162; Sept. 21; v. 278; p. 541.
"Perma-Tite Valve Grinding Compound." (For Cans Containing a Valve-Grinding Compound. Permatite Manufacturing Company, Inc. No. 22,161; Sept. 21; v. 278; p. 541.
"Plant Life." (For a Fertilizer Compound.) R. H. Hoover. No. 22,108; Sept. 14; v. 278; p. 365.
"Player Action Par Excellence." (For Actions for Player-Pianos.) R. S. Howard Company. No. 22,151; Sept. 21; v. 278; p. 541.
"Price's No Ice." (For Preservative Compound for Fish and Game.) Price Compound Company. No. 22,164; Sept. 21; v. 278; p. 541.
"Prohibition Ginger." (For a Preparation or Compound for Cramps, Chills, &c. B. F. Bigwood. No. 22,144; Sept. 21; v. 278; p. 541.

"Pronto." (For Glass Containers Containing a Fire-Extinguishing Fluid.) The Allen Corporation. No. 22,141; Sept. 21; v. 278; p. 541.
"Puritan Malt Extract." (For Cans Containing Malt Extract.) J. E. Magnus. No. 22,125; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings." (For Educational Playthings—Namely, Picture-Builders.) C. F. Lorenzen & Co. No. 22,153; Sept. 21; v. 278; p. 541.
"Purple Seal Playthings." (For Phantom Blocks 71.) C. F. Lorenzen & Co. No. 22,154; Sept. 21; v. 278; p. 541.
"Purple Seal Playthings Design Builder No. 11." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,121; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 21." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,122; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 22." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,120; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 31." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,119; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 41." (For Educational Playthings—Namely, Design-Builder.) Chas. F. Lorenzen & Co. No. 22,118; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 51." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,124; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Design Builder No. 61." (For Educational Playthings—Namely, Design-Builders.) Chas. F. Lorenzen & Co. No. 22,123; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Picture Builder No. 2." (For Educational Playthings—Namely, Picture-Builders.) Chas. F. Lorenzen & Co. No. 22,116; Sept. 14; v. 278; p. 365.
"Purple Seal Playthings Picture Builders No. 3." (For Educational Playthings—Namely, Picture-Builders.) Chas. F. Lorenzen & Co. No. 22,117; Sept. 14; v. 278; p. 365.
"Queen Anne Soap Powder." (For Soap Powder.) Lauts Bros. & Co. No. 22,111; Sept. 14; v. 278; p. 365.
"Queen Anne Scourer." (For a Scouring Preparation.) Lauts Bros. & Co. No. 22112; Sept. 14; v. 278; p. 365.
"Salmotinto." (For Cantaloup-Seed.) H. Van Buskirk Seed Co. No. 22,145; Sept. 21; v. 278; p. 541.
"Shaw's." (For Strawberry Jam.) The Shaw Family, Inc. No. 22,168; Sept. 21; v. 278; p. 541.
"Shelley's Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,158; Sept. 21; v. 278; p. 541.
"Snow Crystals." (For Instantaneous Water-Softener.) California Soda Products Company. No. 22,146; Sept. 21; v. 278; p. 541.
"Some!!!" (For Cakes.) H. V. Walters. No. 22,139; Sept. 14; v. 278; p. 366.
"Succuline." (For General Tonic for Poultry.) A. W. Chappell. No. 22,147; Sept. 21; v. 278; p. 541.
"Sweet-Odor-Home." (For Liquid Deodorant.) Sweet-Odor-Home Company. No. 22,171; Sept. 21; v. 278; p. 541.
"The Original Apollo." (For Cigars.) Peter Kordick Company. No. 22,110; Sept. 14; v. 278; p. 365.
"The Personal Writing Machine." (For Typewriting-machines.) Corona Typewriter Company, Inc. No. 22,102; Sept. 14; v. 278; p. 365.
"Uneek Salad Dressing." (For Containers Containing Salad-Dressing.) W. W. Lewis. No. 22,115; Sept. 14; v. 278; p. 365.
"Usacuba." (For Cigars.) W. L. Van Dyke. No. 22,138; Sept. 14; v. 278; p. 366.
"Waterman's Ideal Ink." (For Waterman's Ideal Ink.) L. E. Waterman Company. Nos. 22,096–9; Sept. 7; v. 278; p. 162.
"Zay-Tek." (For Chocolate and Cocoa.) Pennsylvania Chocolate Company. No. 22,134; Sept. 14; v. 278; p. 365.

ALPHABETICAL LIST OF PRINTS.

"Big Yank." (For Work-Shirts.) Reliance Manufacturing Company. No. 5,360; Sept. 21; vol. 278; p. 542.
"Come in, Let Us Show You Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) Detmer Woolen Co. No. 5,342; Sept. 14; v. 278; p. 366.
"Come In—Let us show you Detmer University Novelties, Latest Suitings." (For Detmer Woolens.) Detmer Woolen Co. No. 5,305; Sept. 21; v. 278; p. 542.
"Deerfield." (For Oranges and Grapefruit.) E. P. Porcher. No. 5,349; Sept. 14; v. 278; p. 366.
"Delight in Every Bite." (For Apples.) Mutual Service Corporation. No. 5,359; Sept. 21; v. 278; p. 542.
"Economy." (For Athletic Underwear.) The B. V. D. Company. No. 5,354; Sept. 21; v. 278; p. 542.
"For a Lovely Complexion and Glorious Hair." (For Soap.) James S. Kirk & Company. No. 5,346; Sept. 14; v. 278; p. 366.
"Handy Candy Caramels." (For Handy Candy Caramels.) Beech-Nut Packing Company. No. 5,334; Sept. 7; v. 278; p. 162.
"Handy Candy Cloves." (For Candy—namely, Cloves.) Beech-Nut Packing Company. No. 5,352; Sept. 21; v. 278; p. 542.
"Handy Candy Licorice." (For Candy—namely, Licorice.) Beech-Nut Packing Company. No. 5,353; Sept. 21; v. 278; p. 542.
"Hays Gloves." (For Leather Gloves.) The Daniel Hays Company. No. 5,355; Sept. 21; v. 278; p. 542.
"Heinz Fig Pudding." (For Heinz Fig-Pudding.) H. J. Heinz Company. No. 5,343; Sept. 14; v. 278; p. 366.
"Heinz Oven Baked Beans." (For Heinz Oven-Baked Beans.) H. J. Heinz Company. No. 5,345; Sept. 14; v. 27; p. 366.
"Heinz Tomato Ketchup." (For Heinz Tomato Catchup.) H. J. Heinz Company. No. 5,344; Sept. 14; v. 278; p. 366.
"How do you get that way?" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,351; Sept. 14; v. 278; p. 366.
"It Simply isn't Christmas without Sparrows." (For Confectionery.) Boston Confectionery Company. No. 5,339; Sept. 14; v. 278; p. 366.
"Long Wear." (For Athletic Underwear.) The B. V. D. Company. No. 5,340; Sept. 14; v. 278; p. 366.
"My Mama." (For Phonographs.) World Phonograph Company. No. 5,364; Sept. 21; v. 278; p. 542.
"No-Leak-O Oilsealing." (For Piston-Rings.) No-Leak-O Piston Ring Company. No. 5,347; Sept. 14; v. 278; p. 366.
"No Need Putting in a Call for the Old Family Yard Stick." (For Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,362; Sept. 21; v. 278; p. 542.
"Ouija." (For Talking Board.) W. Fuld. No. 5,358; Sept. 21; v. 278; p. 542.
"Shot." (For Non-Alcoholic Beverage.) J. A. Franklin. No. 5,356; Sept. 21; v. 278; p. 542.
"Simple Home Treatment Which Makes Your Hair Thick and Beautiful." (For Shampoo.) The Palmolive Company. No. 5,348; Sept. 14; v. 278; p. 366.
"The Drink With a Tickle for a Nickle." (For Non-Alcoholic Beverage.) J. A. Franklin. No. 5,357; Sept. 21; v. 278; p. 542.
"The Largest Selling Quality Pencil in the World." (For Lead-Pencils.) American Lead Pencil Company. Nos. 5,336–8; Sept. 14; v. 278; p. 366.
"The New Improved Double Floor Whitaker Denture Vacuum." (For Vacuum Denture.) G. S. Whitaker. No. 5,363; Sept. 21; v. 278; p. 542.
"The New Series Haynes Suburban." (For Automobiles.) The Haynes Automobile Co. No. 5,335; Sept. 7; v. 278; p. 162.
"The Snappy Link." (For Cuff-Links.) John A. Cunningham & Co. No. 5,341; Sept. 14; v. 278; p. 366.
"What a Grip You've Got on Smokesport at Both Ends." (For Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,361; Sept. 21; v. 278; p. 542.
"You'll fuss a pipe like it's the new baby." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,350; Sept. 14; v. 278; p. 366.

DISCLAIMERS.

Wheel, Demountable. T. I. Duffy. No. 1,125,498; date of patent Jan. 19, 1915; disclaimer filed Aug. 20, 1920; v. 278; p. 168.
Electrical distribution system. J. W. Jepson. No. 1,287,331; date of patent Dec. 10, 1918; disclaimer filed Aug. 20, 1920; v. 278; p. 168.
Picture machine, Motion-. L. B. Larsen, O. J. Holmes, and H. G. Larsen. No. 1,283,224; date of patent Oct. 29, 1918; disclaimer filed Sept. 8, 1920; v. 278; p. 548.

CLASSIFICATION OF PATENTS

SEPTEMBER, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

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